

AM/FM STEREO RECEIVER

# KR-A5040

# INSTRUCTION MANUAL

KENWOOD CORPORATION

B60-0851-08(O(K, P, E, T, M, X, Y) MC

# Introduction

Your choice of this product indicates that you are a devotee to excellence in sound reproduction.

We appreciate your patronage and take pride in the long tradition of quality components that our company represents. So that you can get the most out of your unit, we suggest that you take the time to read through this manual before you hook up and operate your system. This will acquaint you with operating features and system-connection considerations so that your listening pleasure will be enhanced right from the start. You will notice that in all aspects of planning, engineering, styling, operating convenience and adaptability we have sought

to anticipate your needs and desires.

Keep this manual handy for future reference.

#### 'For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model \_\_\_\_\_\_ Şerial Number \_

#### Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

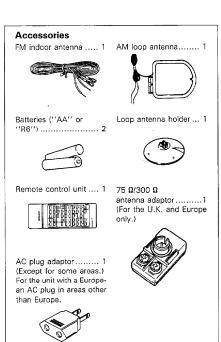
Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

#### For the U.S.A.

#### Note to CATV system installer:

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 page carefully to ensure safe operation.

# Before applying power

#### For the U.S.A. and Canada

#### Important!

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THE AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY IN-SERTED TO PREVENT BLADE EXPOSURE.

### For the United Kingdom

## Important! Units shipped to the U.K. are designed for operation on 240 volts AC only. The mains plug must be removed from the wall socket prior to any internal examination. The wires in this mains lead are coloured in accordance with the following code: Blue ..... Neutral The wires in this mains lead must be connected to the terminals in the plug as follows: Plug terminal marking Wire colour N or Black Blue ... Brown ..... L or Red () E Brown to Notes: 1. If a 13-amp plug is used, this must be fitted with a 5-amp

2. If a 3-pin plug with earthing contact is used, no wire must

#### For Australia and Europe

#### important!

Units shipped to Australia are designed for operation on 240 V

Units shipped to Europe are designed for operation on 230 V AC only.

#### For other countries

#### Important!

Units shipped to countries other than the above countries are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this

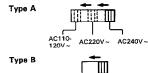
#### AC voltage selection

This unit operates on 110-120 or 220-240 volts AC. The AC voltage selector switch Type A or Type B on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

#### Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector

### AC voltage selector switch



AC110V- **◄►** AC220V

Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

# Safety precautions

CAUTION

be connected to the E terminal

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SER-VICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOL-TAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) IN-STRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.



Please read all of the safety and operating instructions before operating this unit. For best results, follow all warnings placed on the unit and adhere to the operating and use instructions. These safety and operating instructions should be retained for future reference.

- 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 appliance.
- 2. 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, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Never pull or stretch



- Grounding or polarization The precautions should be taken so that the grounding or polarization means of this unit is not defeated.
- 4. Ventilation The unit should be situated so that its location or position does not interfere with its proper ventilation.

To maintain good ventilation, do not put records or a table-cloth on the unit. Place the unit at least 10 cm away from the walls.

Do not use the unit on a bed, sofa, rug or similar surface that may block the ventilation openings.

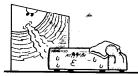


5. Water and moisture — The unit should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.



Temperature — The unit may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

7. Heat — The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other units (including amplifiers) that produce heat.



8. Electric shock — Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal object, such as a hair pin or a needle, comes into contact with the inside of this unit, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.



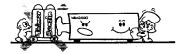
 Enclosure removal — Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



10. Magnetic fields — Keep the unit away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.



**11. Cleaning** — Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.





# ⚠Caution: Read this page carefully to ensure safe operation.

12. Carts and stands — An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



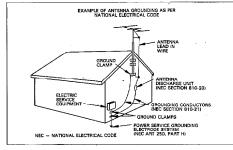
- 13. Nonuse periods The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
- 14. Abnormal smell If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest service center.

POWER OFF!

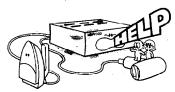


- **15. Damage requiring service** The unit should be serviced by qualified service personnel when:
  - **A.** The power-supply cord or the plug has been damaged; or
  - **B.** Objects have fallen, or liquid has been spilled into the unit; or
  - C. The unit has been exposed to rain; or
  - **D.** The unit does not appear to operate normally or exhibits a marked change in performance; or
  - E. The unit has been dropped, or the enclosure damaged.
- 16. Servicing The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 17. Outdoor antenna grounding If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding con-

ductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



- 18. Power lines An outdoor antenna should be located away from power lines.
- 19. AC outlets Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical units, such as an iron or toaster, to it to prevent fire or electric shock.



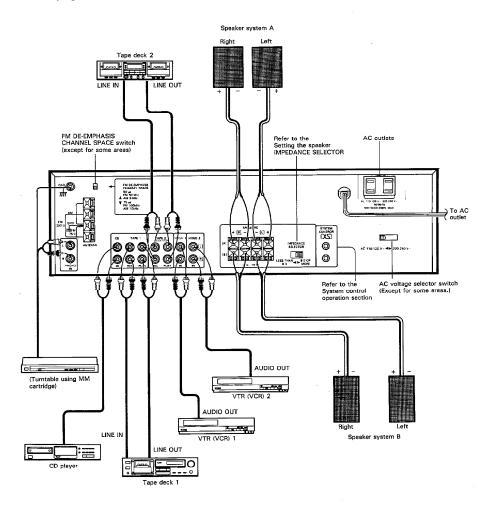
- 1. Item 3 is not required except for grounded or polarized equipment.
- 2. Item 17 and 18 are not required except for units provided with antenna terminals.
- 3. Item 17 complies with UL in the U.S.A.

# **System connections**

Make connections as shown in the diagram below.

When connecting the related system components, refer also to the instruction manuals of the related components.

Do not plug in the power lead until all connections are complete.

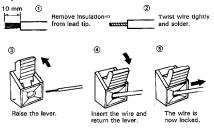


Notes

- To prevent possible problems, always disconnect the power plug or turn off the POWER switch of the receiver before connecting or disconnecting the audio cables.
- When connecting audio cables, always insert the pin plugs securely into the connecting jacks.
- Insufficient insertion may result in no-sound problems or generation of noise.



### Speaker connections



# Speaker lead connection

#### ■ Setting the speaker IMPEDANCE SELECTOR

When connecting one pair of speakers to the SPEAKERS A or B terminals, set the IMPEDANCE SELECTOR according to the speaker impedance.

When two pairs of speakers are connected to both the A and B terminals, match the speaker impedance selector to the speakers with the lowest impedance.

#### Note

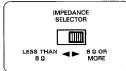
- During speaker system connection and operation of the speaker IMPEDANCE SELECTOR, set the POWER switch to OFF.
- Check that the connected lead wires of the speaker systems do not contact with other jacks or terminals.

#### When using the speaker A or speaker B separately

| Speaker impedance | Selector position  |  |
|-------------------|--------------------|--|
| 4Ω, 6Ω            | A OR B: (BELOW 8Ω) |  |
| 8Ω, 16Ω           | (8Ω OR MORE)       |  |

#### When using the speakers A and B simultaneously

| Speaker impedance | Selector position     |  |
|-------------------|-----------------------|--|
| 8Ω, 16Ω           | A AND B: (8Ω OR MORE) |  |



#### **■** Connecting the speakers

Connect speakers rated at 4 ohm or more to the SPEAKERS terminals.

- Connect the left speaker to the L speaker terminals on the rear of the receiver and the right speaker to the R terminals.
- Connect each cable as shown in the illustration, taking care that the wires do not make contact with other terminals.

2. If the left and right speakers, or positive and negative cables, are connected the wrong way, the reproduced sound may be unclear, with ambiguous location of the musical instruments etc. To avoid this, pay attention to the left and right and positive and negative indications when connecting the speakers.

#### ■ AC outlets

The AC outlets on the rear panel may be used to supply power to other components in the system, such as turntables, tape decks, etc. Never connect equipment whose power consumption exceeds the maximum value shown at each outlet. SWITCHED outlets:

The maximum total capacity is 200 watts, 1.6 A max.

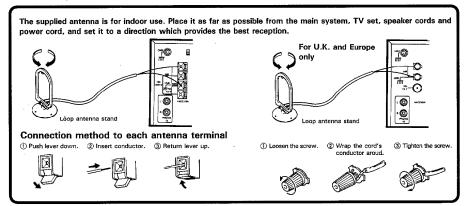
| Unit destination  | Shape of the AC outlet |
|-------------------|------------------------|
| U.S.A. and Canada |                        |
| U.S. Military     | ×2                     |
| U.K.              | 0_0 ×2                 |
| Europe            |                        |
| Australia         | ×1                     |
| Other countries   | <b>♦</b> ♦ ×1          |

### WARNING

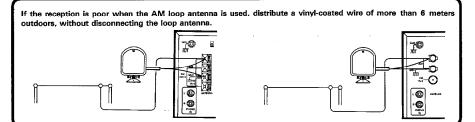
Particular attention must be given to making good electrical contact at the receiver output and speaker terminals.

Poor or loose connections can cause sparking or burning at the terminals because of the very high power that the receiver can deliver.

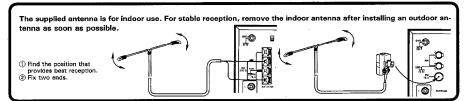
### ■ AM loop antenna connection



### ■ AM outdoor antenna connection



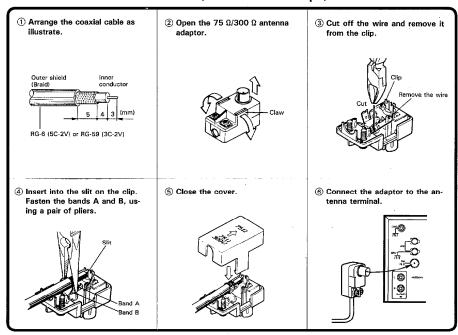
#### **■** FM indoor antenna connection



### **■** FM outdoor antenna connection

It is recommended to install an exclusive FM outdoor antenna to capture FM broadcasts with high sound quality. Use a coaxial cable for the connection between the outdoor antenna and FM ANTENNA terminal on the rear panel. For the connection between the coaxial cable and FM ANTENNA terminal, please refer to the illustration.

# ■ 75 $\Omega$ coaxial cable connection (For U.K. and Europe)



### FM DE-EMPHASIS/CHANNEL SPACE switch (Except for some areas)

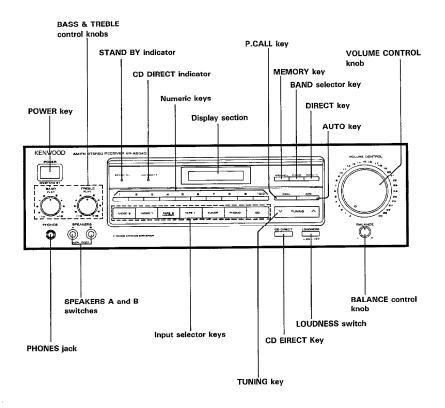
The FM DE-EMPHASIS/CHANNEL SPACE switch on the rear panel is set to the correct setting that prevails in the area to which the unit is shipped. However, if the FM DE-EMPHASIS/CHANNEL SPACE setting is not matched to the area where the unit is to be used; for instance, when you moved from area 1 to area 2 or vice versa, desired reception of AM/FM broadcasts is not expected. In this case, change the FM DE-EMPHASIS/CHANNEL SPACE setting in accordance with the area corresponding to the table. The FM DE-EMPHASIS is switched over at the same time.

 When changing the setting of the FM DE-EMPHASIS/ CHANNEL SPACE switch, first disconnect the power cord of the amplifier, then reset the channel space switch, connect the power cord again and turn the power on while pressing the TUNER key.

|  | SPACE freq.             | FM DE-<br>EMPHASIS |  |
|--|-------------------------|--------------------|--|
| U.S.A., Canada,<br>Hawaii, South<br>American countries | FM: 100kHz<br>AM: 10kHz | 75 μs              |  |
| Other countries  | FM: 50kHz<br>AM: 9kHz   | 50 μs              |  |

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# **Controls and indicators**



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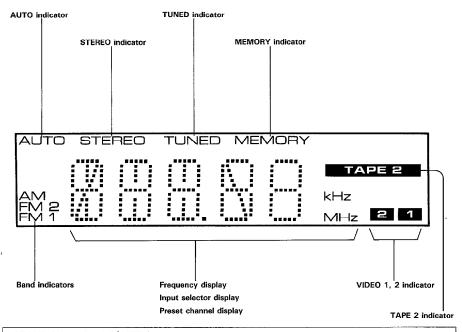
### SPEAKERS A and B switches

- A, B OFF This position silences all speakers to permit private use of headphones.
- A ON Activates speakers connected to the SPEAKERS A terminals on the rear panel.
- **B ON** Activates the speakers connected to the SPEAKERS B terminals on the rear panel.
- A, B ON Activates the speakers connected to the SPEAKERS A and B terminals simultaneously.

Note: When the SPEAKERS A and B switches are both pressed ON, the speakers connected to the SPEAKERS A and B terminals are connected in series. Therefore, when using the SPEAKERS A and B switches at the same time, be sure that two pairs of speakers are

connected to the terminals A and B, otherwise no sound is output.

### Display section



### STAND BY mode of POWER key

When the power cord of this system is plugged into an AC outlet, the STAND BY indicator lights up regardless of the ON/OFF setting of the POWER key. This indicates that a small amount of current is being supplied to the unit to back up the memory contents. This mode is referred to as the Stand By mode. While the STAND BY indicator is lit, the power of the system can be switched ON/OFF from the remote control unit.

#### Strömbrytarens POWER beredskapsläge

Indikatorn STAND BY tänds efter nätkabelns anslutning till ett väggutag, oavsett strömbrytarens POWER till/frånslag. Detta anger att en liten mängd ström leds till komponenten som stöd för minnesinnehållet.

Detta läge kallas för beredskapsläget. Strömbrytaren på fjärrkontrollen kan användas för att slå på och av strömmen så länge indikatorn STAND BY lyser.

### Virtanäppäimen (POWER) valmiustila (STAND BY)

Kun laitteen verkkojohto on littetty pistorasiaan, valmiustilan merkkivalo syttyy riippumatta virtanäppäimen (POWER) asennosta (ON/OFF). Merkkivalo osoittaa, että laitteessa on hieman virtaa muistin sisältöjen ylläpitoa varten. Tätä tilaa kutsutaan valmiustilaksi. Kun valmiustilan merkkivalo (STAND BY) palaa, laitteen virta voidaan kytkeä ja katkaista kaukosäätimellä.

#### Afbrydertastens (POWER) STAND BY funktion

Når apparatets strømledning er tilsluttet en stikkontakt, lyser STAND BY indikatoren, uanset om der er tændt ved afbryderen på apparatet eller ej. Det angiver, at apparatet bliver forsynet med en ganske lille mængde strøm til opret-holdelse af hukommelsens indhold.

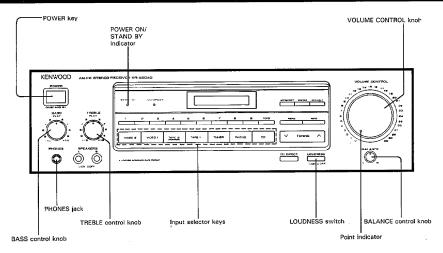
Denne funktion kaldes STAND BY. Når STAND BY indikatoren er tændt, kan strømmen til apparatet slås til og fra med fjernstyringsenheden.

#### PÅ/AV-knappens Stand-by funksjon

Når strømledningen til dette anlegget er satt i en vekselstrømskontakt, vil STAND BY indikatorlampen lyse enten PÅ/AV-knappen er på-eller avslått. Dette betyr at en viss mengde strøm tilføres anlegget slik at innholdet i minnet ikke går tapt. Denne funksjonen kalles Stand-by. Når indikatorlampen for STAND-BY er tent, kan strømmen slås PÅ/AV fra fjernkontrollen.



# **Operating instructions**



#### ■ Basic operation

#### 1. Press the POWER key to ON.

- The display lights, the point indicator blinks for about 5 seconds then lights steadily, and the unit becomes operative.
- · Pressing the key again switches the power OFF.
- Press one of the input selector keys to select the input source to be played.
  - If a System Control cord has been connected to the selected source component, it starts play automatically due the Automatic Play operation feature.
  - With the Automatic Play operation feature, when one
    of the source components is started to be played, the
    corresponding input selector is automatically switched
    for the source.
  - The selected input source is shown on the display.
- If automatic play operation using the System control cords has not been set, start playing the source component selected.
- 4. Adjust the output level with the VOLUME CONTROL knob.
- 5. Adjust the balance of the left and right output levels with the BALANCE control knob.
- 6. Adjust the tone (BASS, TREBLE) for your preference.

Note: When the TAPE-2 selector switch is set to ON, the input source selected with the input selector keys cannot be heard from the speakers. To listen to a source other than tape deck 2, be sure to set the TAPE-2 selector key to OFF.

#### ■ Principal key function

#### Tone control knobs (BASS) (TREBLE)

Adjust tone controls to suit your taste.

#### BALANCE control knob

If an imbalance occurs (the left or right channel appears louder than the other) due to source imbalance or room acoustics, adjust BALANCE control to equalize the sound from both speakers.

### LOUDNESS switch

If you customarily listen at low listening levels, set the LOUDNESS switch to ON. If not, set it to OFF position.

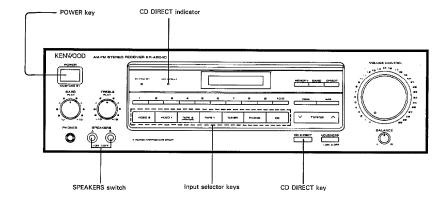
#### POWER STAND-BY indicator

This indicator lights if the power cord is plugged into the AC outlet. It is lit to show that the POWER switch on the front panel or the POWER key on the remote control unit can be activated.

#### PHONES jack

This jack accepts the standard stereo headphone plug. When you wish to listen through headphones alone, set the SPEAKERS switches (A and B) both to the OFF ( $\square$ ) position.





### ■ To record an input source

- 1. Press the POWER key to ON.
- 2. Select the source to be recorded with the Input selector keys.
- 3. Play the source.
- 4. Set tape deck 1 and/or tape deck 2 to record mode.

#### Note

When a tape deck is connected to this unit with a System Control cord, all of the input selector keys are disabled during recording and do not function until recording is finished. This will prevent the recording from being interrupted.

# ■ Operations using CD DIRECT key

To enjoy more pure and high-quality sound of Compact Discs:

- 1. Press the CD key.
- 2. Press the CD DIRECT key.
- 3. Play the CD player.
  - The CD DIRECT key is given priority over the setting of the input selector keys.
  - To cancel the CD DIRECT input, press the CD DIRECT key again or press one of the Input selector keys (except CD and TAPE 2 keys). The input will be switched to the source indicated on the display.

### ■ Tape dubbing

Tape recordings may be duplicated (dubbed) easily using two tape decks connected to the TAPE 1 and 2 jacks.

#### For example:

(TAPE 1 to 2):

- 1. Connect two tape decks to the TAPE 1 and TAPE 2 jacks.
- 2. Press the TAPE 1 key.
- 3. Play back the recorded tape and adjust the recording levels before starting tape dubbing.

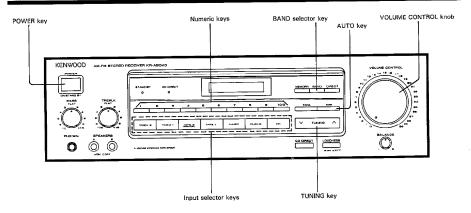
### (TAPE 2 to 1):

- 1. Press the TAPE 2 key.
- 2. Press a key other than TAPE 1 of the Input selector keys such as CD.
- Play back the recorded tape and adjust the recording levels before starting tape dubbing.
- Do not press the TAPE 1 key during recording with tape deck 1.

Note:

Adjust recording levels on the deck that is making the copy using that deck's operating controls.

# Listening to broadcasts



### ■ To listen to radio broadcasts

- 1. Press the POWER key to ON.
- 2. Press the TUNER input selector key.
- 3. Press the BAND selector key to select FM1, FM2 or AM.
  - Every time the BAND selector key is pressed, the receiving band is switched in order:



- Tune in the desired broadcasting station according to the instructions in the "Tuning methods" section below.
  - During tuning, sound is not heard because the muting circuit is activated. The sound will be heard suddenly as soon as a station is received, so be careful in setting the sound volume level.
- When the desired station is received, adjust the volume with the VOLUME CONTROL knob.

### **■** Tuning methods

#### Auto tuning

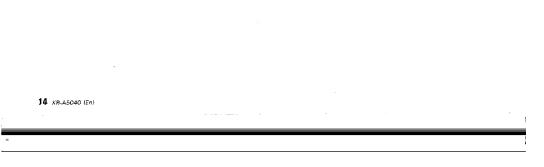
When the TUNING key is pressed, broadcast frequencies are scanned automatically in the upward or downward direction until a station is located and tuned in. The stereo/monaural FM reception mode is set automatically according to the station.

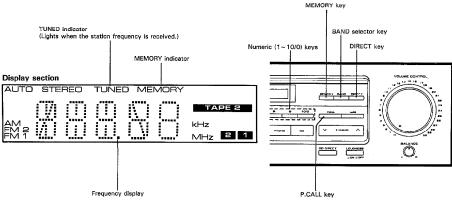
- 1. Press the AUTO key so that the AUTO indicator lights.
- 2. Press the ∧ (UP) or ∨ (DOWN) segment of the TUNING
  - Press the ∧ (UF) segment scans broadcast frequencies by varying the displayed frequencies in the upward direction, and pressing the ∨ (DOWN) segment scans by varying the frequencies in the downward direction.
  - When a broadcasting station is received, the frequency display freezes and indicates the frequency of the received station.
- 3. If the received station is not the desired station, press the same segment of the TUNING key again.
  - · Repeat this unit the desired station is received.

#### Manual tuning

Stations with weak signal strength cannot be received by auto tuning. In such cases, tune in the desired station by manual tuning. The station will be received in monaural mode (monaural mode is resistant to noise).

- 1. Press the AUTO key so that the AUTO indicator is off.
- 2. Press the ^ (UP) or < (DOWN) segment of the TUNING key.
  - Every time the TUNING key is pressed, the displayed frequency varies by one step in the direction indicated by the pressed segment.
  - Holding the TUNING key depressed varies the displayed frequency continuously.
- When the frequency of the desired station is tuned in, release the TUNING key.
  - Noise may be heard if the tuned frequency is not precisely the same as the frequency of the station, in such cases, press the \( \text{UP} \) or \( \text{UDVN} \) is segment of the TUNING key to adjust the tuning precisely.





#### Direct tuning

This method allows the desired frequency to be entered directly using the numeric keys, without using the TUNING key.

- 1. Press the DIRECT key.
- Enter the frequency of the desired station with the numeric keys.
- When all of the digits of the frequency have been entered, the station is automatically received.
- If the entered frequency is not in the receivable frequency range, the frequency display blinks for 5 seconds, and the last station received is received again.

### ■ Preset tuning

By storing the frequencies of broadcasting stations in the preset channels according to the instructions in the "To preset station frequencies" section, any of the preset stations can be received by one-touch operation.

# Press the numeric key corresponding to the preset channel of the desired station.

 The display shows the frequency of that station, and the station is received.

#### ■ To preset station frequencies

- Pross the BAND selector key for the desired band (FM1 FM2 or AM).
- Tune in the desired station following the instructions in the "Tuning methods" section.
- 3. Press the MEMORY key.
  - The MEMORY indicator on the display light
- Within 5 seconds after pressing the MEMORY key, press the numeric key (1 to 10/0) corresponding to the prese channel in which the frequency is to be stored.
  - If a frequency has already been stored under the select ed preset channel, the previously-stored frequency wi be replaced by the new frequency.
- Preset all desired frequencies by repeating steps 1 to above.

#### ■ Preset Scan

This function allows the preset stations stored in the preset channels to be received in sequence for 5 seconds each.

- 1. Press the P.CALL key.
  - The frequency of each preset station is received for seconds in sequence. A preset channel in which no station has been preset is skipped, and the scan operation moves to the next preset channel.
- 2. To stop Preset Scan, press the P.CALL key again
  - The preset station being received when the key is pressed is received continuously.

| VOLUME SCHIPPIO.  |  |  |  |
|---|--|--|--|
| esired band (FM1,<br>the instructions in  |  |  |  |
| splay lights. EMORY key, press ding to the preset be stored. d under the select- ored frequency will ating steps 1 to 4 |  |  |  |
| tored in the preset<br>5 seconds each.<br>In is received for 5<br>tel in which no sta-<br>the scan operation            |  |  |  |
| <b>LL key again.</b> n the key is pressed   |  |  |  |
|   |  |  |  |
| KR-A5040 (En) 15  |  |  |  |

# Remote control

#### ■ Operations

- 1. Connect the power plug of the receiver to an AC outlet.
  - The receiver enters the power standby mode and the POWER/STANDBY indicator lights.
- Press the POWER key of the remote control unit or the POWER switch of the receiver.
  - The receiver enters the power ON mode.
- 3. The various functions of the receiver can be operated with the keys of the remote control unit.

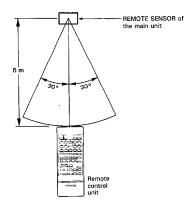
#### Note for remote control operation

After pressing one of the operation keys, when the next operation is required, press the next operation key firmly after an approx. 1 second interval.

If the next operation key is pressed immediately after the previous key, misoperation may result.

#### ■ Operating range of the remote control unit

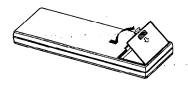
The operating range of the remote control unit may differ according to temperature, humidity, or using conditions, however, it is defined approximately as shown in the figure below:



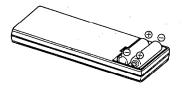
The signal transmission system used by this remote control unit is the infrared control system.

# ■ Installing the batteries in the remote control unit

1. Remove the battery compartment cover.



2. Insert two size "AA" (R6) batteries confirming the correct polarity and close the cover in its place.

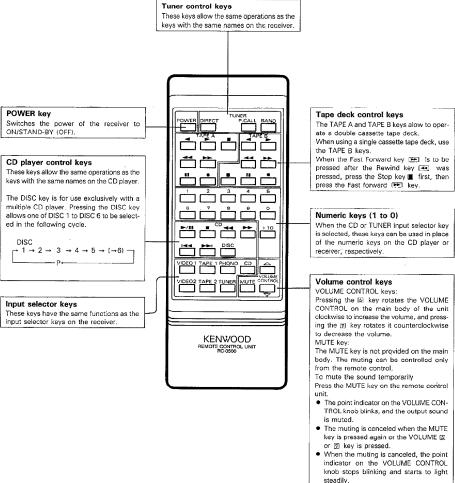


Note: -

The provided batteries are to be used for checking the operation of the remote control unit, and they may have a short life. When the remote control unit becomes effective only for short distances or does not operate properly, replace the batteries with two new batteries.

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Malfunction may occur in case direct sunlight or the light of a high-frequency lighting fluorescent lamp enters the remote control light recepter. In such a case, change the installation position of the unit so that the malfunction does not occur.

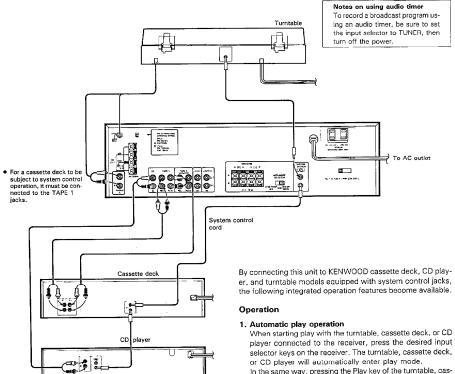


| The DISC key is for use exclusively with a  |                                  |  |  |
|---|----------------------------------|--|--|
| multiple CD player. Pressing the DISC key allows one of DISC 1 to DISC 6 to be select-  |                                  | Numeric keys (1 to 0)  |  |
| ed in the following cycle.  |                                  | When the CD or TUNER input selector key  |  |
|   |                                  | is selected, these keys can be used in place   |  |
| DISC $\rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow (\rightarrow 6)$  | I-d-4 ▶▶I DISC                   | of the numeric keys on the CD player or receiver; respectively.                                |  |
| 7   |                                  | receiver, respectively.  |  |
|   | VIDEO 1 TAPE 1 PHONO CD          | •  |  |
|   | VIDEO2 TAPE 2 TUNER MUTE CONTROL | Volume control keys  |  |
|   |                                  | VOLUME CONTROL keys:   |  |
| Input selector keys   |                                  | Pressing the A key rotates the VOLUME  |  |
| These keys have the same functions as the   | ) <u> </u>                       | CONTROL on the main body of the unit clockwise to increase the volume, and press-              |  |
| input selector keys on the receiver.  |                                  | ing the [7] key rotates it counterclockwise  |  |
|   | KENWOOD                          | to decrease the volume.  |  |
|   | REMOTE CONTROL UNIT<br>RC-0500   | MUTE key: The MUTE key is not provided on the main   |  |
|   | NO USE                           | body. The muting can be controlled only  |  |
|   |                                  | from the remote control.   |  |
|   | <b>.</b> [                       | To mute the sound temporarily Press the MUTE key on the remote control                         |  |
|   |                                  | unit.  |  |
|   |                                  | The point indicator on the VOLUME CON-   |  |
|   |                                  | TROL knob blinks, and the output sound   |  |
|   |                                  | is muted.  The muting is canceled when the MUTE  |  |
|   |                                  | key is pressed again or the VOLUME [a]   |  |
|   |                                  | or 🗹 key is pressed.   |  |
|   |                                  | <ul> <li>When the muting is canceled, the point<br/>indicator on the VOLUME CONTROL</li> </ul> |  |
|   |                                  | knob stops blinking and starts to light  |  |
|   |                                  | steadily.  |  |
|   |                                  |  |  |
|   |                                  |  |  |
|   |                                  |  |  |
| Caution in remote control   |                                  |  |  |
| In case any of the following models is used, the second of the seco |                                  |  |  |
| cannot be operated from this remote contro<br>DP-M97, DP-57, DP-47  | i unit:                          |  |  |
|   |                                  |  |  |
| <ul> <li>If the CD player is not equipped with the Sy</li> </ul>  |                                  |  |  |
| cannot be operated properly from this remo In such a case, please use the remote contri   |                                  |  |  |
| the CD player.  | - Since provided With            |  |  |
|   |                                  |  |  |
|   |                                  |  |  |
|   |                                  | KO 45040 / . 47  |  |
|   |                                  | KR-A5040 (En) 17   |  |
|   |                                  | KR-A5040 (En) 17   |  |
|   |                                  |  |  |
|   |                                  |  |  |

# **System control operation**

### Connection

Using the system control cords provided with KENWOOD system component models, make connections as shown below.

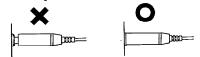


### ■ Connection of the audio cords and system control cord

Make sure that the audio cords are connected correctly right and left as in the figure.

If the system control cord and audio cords are not connected properly, the automatic system governing remote control and system functions will not operate.

(For connections of the audio cords, refer to the "System connections" diagram.)



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player connected to the receiver, press the desired input selector keys on the receiver. The turntable, cassette deck,

In the same way, pressing the Play key of the turntable, cassette deck, or CD player will automatically switch the input selector on the receiver to the component on which the Play key is pressed.

### 2. Synchro recording

To record the sound from the CD player or turntable onto a tape with the cassette deck, press the CD or PHONO of the input selector switch and load a CD or record. Set the cassette deck to rec pause mode, then press the PLAY (START) key of the CD player or turntable. The cassette deck will start recording automatically, synchronized with the CD player or turntable starting play.

#### 3. Remote control

The remote control unit provided with this unit, to which a KENWOOD system turntable, cassette deck, or CD player is connected, is equipped with related control keys. The related components can be controlled using these keys.

During recording with a cassette deck, the input selector on the receiver is fixed at the source from which the recording is made, by the system control circuit. At this time pressing any of the input selector keys has no effect.

# In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

| Symptom   | Cause  | Remedy   |
|---|--|--|
| No power, no sound.   | Power cord not plugged in. Poor connection at wall outlet. Power outlet inactive.                          | Check plug contact. Check outlet using a lamp or other appliance (outlet may be controlled by a wall switch).  |
| No sound from left and right.   | <ul><li>Speaker cords disconnected.</li><li>Speakers switched off.</li></ul>                               | Check speaker connections.     Check speaker switch.   |
| Sound from left or right, but not both.                                 | <ul><li>Poor speaker connections.</li><li>Defective speaker.</li></ul>                                     | Check connections at both ends of speaker cord. Reverse speakers, if problem stays with speaker, have speaker checked.   |
| FM broadcast too noisy. Sufficient reception is impossible.             | <ul><li>Indoor antenna is used.</li><li>Poor connection of the antenna cable.</li></ul>                    | Use an outdoor antenna. Connect the antenna cable correctly.   |
| Dubbing from TAPE 2 to TAPE 1 is impossible.                            | The Input Selector TAPE 1 key is pressed. (The TAPE 1 indicator lights in the display.)                    | Switch the input selector to a source other than TAPE 1.   |
| No sound is heard with both of the SPEAKERS A and B switches set to ON. | <ul> <li>A pair of speakers is not connected to<br/>one of the A or B speaker terminals.</li> </ul>        | <ul> <li>Connect two pairs of speakers correctly<br/>to both A and B speaker terminals. Or,<br/>switch the Speaker Selector to the A or<br/>B position to which the speakers are<br/>connected.</li> </ul> |
| Remote control does not function.                                       | Batteries are not loaded. Or batteries are exhausted. The remote sensor is obstructed.                     | Replace the batteries with new ones.      Remove the obstacle from in front of the remote sensor.  |
| Occurs during AM reception only   | Cause  | Remedy   |
| High-frequency whistle especially at night.                             | Interference from TV set.  | Turn off TV set. If problem disappears,<br>try relocating TV set.  |
| Intermittent buzz or cracking sound.                                    | <ul> <li>Lighting.</li> <li>Fluorescent lamps starting.</li> <li>Appliance or furnace starting.</li> </ul> | <ul><li>No remedy.</li><li>Try reversing AC plug.</li><li>Try reversing AC plug.</li></ul>   |
| Occurs during FM reception only   | Cause  | Remedy   |
| Hiss that gets worse in stereo reception.                               | Very weak antenna input signal.  | Consider an outdoor antenna installation. In areas remote from the transmitter, a 5 to 8 element antenna designed exclusively for FM is suggested.   |
| Phythmic static or popping noises.                                      | Automobile ignition noise, especially<br>evident when receiving weak signals.                              | <ul> <li>Review antenna installation. Site the antenna as far from the street as possible<br/>and use coaxial cable.</li> </ul>  |
| STEREO indicator fails to light during stereo broadcast.                | <ul> <li>Another possible effect of a very weak<br/>signal.</li> </ul>                                     | <ul> <li>Antenna system needs attention (See<br/>above).</li> </ul>  |

#### Note

- As this system uses microcomputers, it is open to interference from external noise, and may sometimes not function properly. In such
  a case, unplug the power cord once, and then plug it in again.
- Do not use contact cleaner because it could cause a malfunction. Be specially careful against contact cleaners containing oil, for they
  may deform the plastic components.

### For the U.S.A.

## FCC WARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modifications is made.

# **Specifications**

Except for Europe and U.K.

### **AUDIO SECTION**

Rated Power Output (For the U.S.A. & Canada)

80 watts per channel minimum RMS, both channel driven at 8  $\Omega$ , from 20 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion. (FTC)

| (For other than the U.S.A. & Canada)   |
|--|
| (IHF '66) From 20 Hz to 20 kHz, 0.09% T.H.D.,  |
| at 8 Ω   |
| Total Harmonic Distortion  |
|  |
| 0.09% (20 Hz ~ 20 kHz, 180 W, 8 Ω)   |
| Input Sensitivity/Impedance  |
| PHONO (MM)   |
| CD, TAPE, VIDEO 200 mV/47 kΩ   |
| Frequency Response   |
| CD 10 Hz~50 kHz+0 dB, −3 dB  |
| Signal to Noise Ratio (IHF-A)  |
|  |
| PHONO (MM)   |
| CD, TAPE, VIDEO 100 dB for 200 mV input  |
| Tone Controls  |
| BASS ± 10 dB (at 100 Hz)   |
| TREBLE ± 10 dB (at 10 kHz)   |
|  |
| FM TUNER SECTION   |
| / - / - / - / - / - / - / - / - / -  |
| Tuning Frequency Range 87.5 MHz~108 MHz  |
| Antenna Impedance 300 Ω balanced & 75 Ω unbalanced   |
| Sensitivity (IHF)  |
| 50 dB Quieting Sensitivity   |
| MONO   |
| STEREO38.2 dBf (45 μV at 75 Ω)   |
| Signal to Noise Ratio at 65 dBf (IHF)  |
| MONO   |
|  |
| <b>STEREO</b>  |
| Total Harmonic Distortion at 1,000 Hz (IHF)  |
| MONO 0.3%  |
| STEREO 0.5%  |
| Stereo Separation (IHF at 1 kHz) 45 dB   |
| Frequency Response 30 Hz~15 kHz +0.5 dB, -2.0 dB   |
| rioquatio, riospeniation at the second at th |
| AM TUNER SECTION   |
|  |
| Tuning Frequency Range   |
| 9 kHz step 531 kHz~1,602 kHz   |
| 10 kHz530 kHz~1,610 kHz  |
| (The U.S.A. and Canada) 530 kHz ~ 1,700 kHz  |
| Usable Sensitivity 12 µV (400 µV/m)  |
| Signal to Noise Ratio  |
| Table to Noise Ratio   |

Total Harmonic Distortion 0.5% Selectivity 23 dB

Power Consumption...2.2 A (The U.S.A. and Canada Models)

For Europe and U.K.

### **AUDIO SECTION**

| 110210 02011011  |
|--|
| Rated power output<br>(IEC) from 63 Hz to 12,500 Hz          |
| 0.7% T.H.D. at 8 Ω 80 W+80 W                                 |
| (DIN) 1,000 Hz at 8 Ω  |
|  |
| at 4 Ω 80 W + 80 W   |
| Total Harmonic Distortion 0.05% (40 Hz ~ 20 kHz, 40 W, 8 Ω   |
| Input Sensitivity/Impedance                                  |
| PHONO (MM)   |
|  |
| CD, TAPE, VIDEO  |
| Frequency Response   |
| CD 10 Hz ~ 50 kHz + 0 dB, -3 dE                              |
| Signal to Noise Ratio (DIN weighted, at 50 mW output)        |
| PHONO (MM)   |
|  |
| CD, TAPE, VIDEO 57 dE  |
| Tone Controls  |
| BASS ± 10 dB (at 100 Hz                                      |
| TREBLE ± 10 dB (at 10 kHz                                    |
|  |
| FM TUNER SECTION   |
| Tuning Frequency Range 87.5 MHz~108 MHz                      |
| Antenna Impedance  |
| •  |
| Sensitivity (DIN)  |
| (MONO) 1.3 μ\  |
| (STEREO) 40 μ\   |
| Total Harmonic Distortion                                    |
| (DIN at 1 kHz, 65.2 dBf input)                               |
|  |
| MONO   |
| STEREO 0.4%  |
| Signal to Noise Ratio (DIN weighted at 1 kHz, 65.2 dBf input |
| MONO   |
| STEREO 61 dE   |
| Stereo Separation (DIN at 1 kHz) 40 dE                       |
| Frequency Response 30 Hz~15 kHz+0.5 dB, -2.0 dB              |
| requency response 30 H2~ 15 kH2+0.5 db, -2.0 db              |
| AM TUNER SECTION   |
| Tuning Frequency Range 531 kHz~1,602 kHz                     |
|  |
| <b>Usable Sensitivity</b> 12 μV/(400 μV/m                    |
| Signal to Noise Ratio 50 de                                  |
| Total Harmonic Distortion 0.5%                               |
| Selectivity 22 ds  |
| •  |
| GENERAL  |
| Power Consumption  |
| Dimensions   |
|  |
| Weight (Net) 8.5 kg  |
|  |
|  |
| · · · · · · · · · · · · · · · · · · ·                        |

NOTE:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

190 W (IEC) (Others)

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**GENERAL**