

# KENWOOD

UNIVERSAL REMOTE CONTROL

## RC-R0906

### INSTRUCTION MANUAL

KENWOOD CORPORATION

This instruction manual is for some models.  
Model availability and features (functions) may differ depending on  
the country and sales area.

# Getting started

## Precautions

### Heat

Avoid leaving the unit in direct sunlight or near a source of heat, such as a heater.

### Water and moisture

Avoid leaving the unit where it may be subject to high humidity.

### Cleaning the unit

When the unit becomes dirty, wipe it with a dry silicon cloth or a soft cloth. Do not use thinner, benzine, etc., as these could lead to discoloration.

## Inpacking

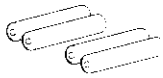
Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

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.

## Accessories

Batteries (R03/AAA) (4)

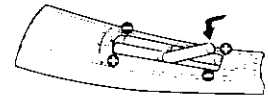
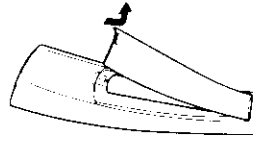


## Preparing the remote control

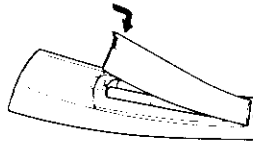
### Loading the batteries

1 Remove the cover.

2 Insert the batteries.



3 Close the cover.

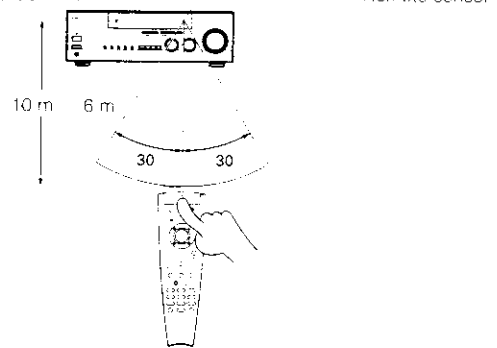


• Insert four AAA-size (LR03) batteries as indicated by the polarity markings.

## Operating distance

This remote control has two IR emitters, one to send commands in a straight line over long distances, allowing you to control the receiver and your other components from farther away, and one for wide dispersion of commands in a closer proximity, for near-field operation even when the remote control is not pointed directly at the respective component.

### Operating range (Approx.)



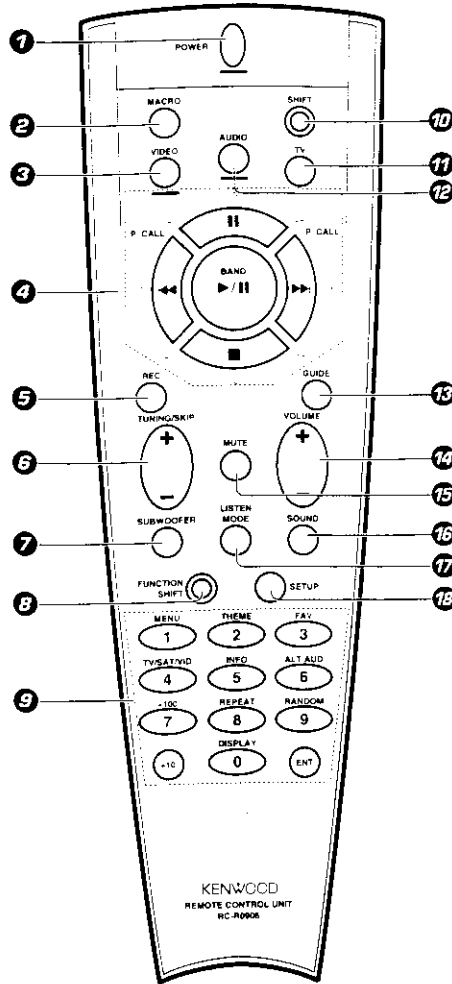
• When pressing more than one remote control key successively, press the keys securely by leaving an interval of 1 second or more between keys.

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### Notes

- 1 The supplied batteries may have shorter lives than ordinary batteries due to use during operation checks.
- 2 Replace all four batteries with new ones when you notice a shortening of the distance from which the remote control will operate or if the remote control beeps 5 times when you press a key. The remote control is designed to retain set up codes in memory while you change batteries.
- 3 Placing the remote sensor in direct sunlight, or in direct light from a high-frequency fluorescent lamp may cause a malfunction. In such a case, change the location of the system installation to prevent malfunction.


**1 POWER key** - 5

Use to turn the receiver on and off. Use in combination with the input selector (AUDIO, VIDEO, or TV) keys and SHIFT key to turn various components on and off.

**2 MACRO key** - 7

Use in combination with the AUDIO, VIDEO or TV keys to execute a series of commands automatically (MACRO PLAY).

**3 VIDEO selector key** - 5

Selects the video inputs and sets the remote control to operate the component registered at the respective input.

**4 Multi control keys** - 12

Use to operate the selected component.

**5 REC key** - 12

Use to operate the selected component.

**6 TUNING/SKIP key** - 12

Use during the setup procedure to specify various settings. Use to operate the tuner or selected component.

**7 SUBWOOFER key**

Use in combination with the VOLUME +/- keys to adjust the volume of the subwoofer.

**8 FUNCTION SHIFT key** - 13

Use in combination with the numeric keys to execute alternate commands.

**9 Numeric keys** - 15

Provide functions identical to those of the original remote supplied with the component you are controlling.

To access the functions printed above the keys, press within 3 seconds of pressing the FUNCTION SHIFT key. Function availability varies for each component.

**ENT key**

Gets you into and out of the preset code registration mode.

**10 SHIFT key** - 13

Use in combination with the AUDIO and VIDEO keys to change the remote control mode without changing the input selector or in combination with the POWER key to turn on and off components programmed into the remote control.

**11 TV selector key** - 5

Sets the remote control to operate a TV or cable box. This key does not change the input selector on the receiver.

**12 AUDIO selector key** - 5

Selects the audio inputs and sets the remote control to operate the respective KENWOOD audio component.

If you connect audio components from KENWOOD and other makers to the MD/TAPE or CD jacks, you can set the remote control to operate these components by registering the appropriate setup code at the respective input.

**13 GUIDE key** - 13

Use to activate the OSD menu functions of registered components.

**14 VOLUME key**

Use to adjust the receiver volume.

**15 MUTE key**

Use to temporarily mute the sound.

**16 SOUND key**

Use to adjust the sound quality and ambience effects.

**17 LISTEN MODE key**

Use to select the listening mode.

**18 SETUP key**

Use to select the surround sound settings.

# Register the setup codes for your audio and video components

RC R306 EN 1

## Step 1

Look up the setup code for the component you want to control.

Write down **all** the applicable setup codes. (This step is very important.)

## Step 2

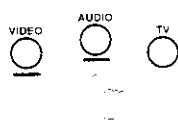


Hold down **ENT** key until the backlight flashes twice (about three seconds).



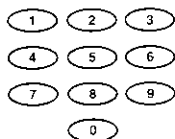
For step 2 through step 8, make sure you start the next step within five seconds of completing the previous one. If more than five seconds elapses between any two steps, you will need to go back and start over from step 2.

## Step 3



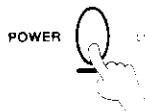
Press the **VIDEO**, **AUDIO**, or **TV** key to select the input you want to register. (Each press of the key advances you one by one through the available input settings.) The current input setting appears on the display of the receiver.

## Step 4



Use the numeric keys to enter the 4-digit setup code for the component.

## Step 5



Press the **POWER** key to see if you can turn the component on and off. (If the component you want to control has a mechanical power key that cannot be operated by remote control, press the **PLAY** key or the **TUNING/SKIP** key to test it.)

If the component does not respond when you try to control it, return to step 4 and enter the next setup code on the list. Repeat this procedure until you find the code that matches the component.

## Step 6



Press the **ENT** key to store the code.

## Step 7

Repeat steps 3 through 6 to enter the codes for each component you want to control.

## Step 8



Once you have finished registering setup codes for all of the inputs, hold down **ENT** key until the backlight flashes twice (about three seconds). This exits the registration mode.

If you accidentally exit the registration mode by pressing the wrong key, you will not lose any setup codes you have already saved.

### Automatic input naming

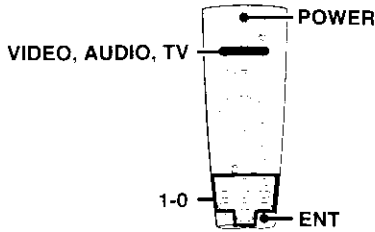
In the initial factory setting, the remote control already has provisional component names registered for each input. Before you register setup codes, pressing the input keys of the remote control causes the display to change from the factory preset input names of the receiver (VIDEO1, VIDEO2, etc.) to the input names registered in the remote control (VCR1, VCR2, etc.). Once you have registered the appropriate setup codes for your components, pressing the input keys of the remote control causes the display to change to the actually connected component names (LD, DVD, etc.) for which you have registered setup codes.

The remote control is also capable of controlling components from a variety of manufacturers once you register the appropriate setup codes into the remote control unit. Refer to "Remote operation of other components" for details about the operations available for each component.

### Low battery warning

Replace all four batteries with new ones when you notice a shortening of the distance from which the remote control will operate or if the remote control blinks 5 times when you press a key. The remote control is designed to retain setup codes in memory while you change batteries.

## Registering setup codes for other components



### 1 Find the setup code of the component to be registered.

- Refer to the setup code lists to find the setup code for the component to be registered. Example: To register a CD made by KENWOOD, you would enter 8028.
- When registering setup codes for KENWOOD audio components which are connected to this unit by system control cords, use the following codes to insure proper system control operation. **Cassette: 7000, CD: 8099, MD: 9000.**
- If you own a new component that is not covered by the setup code list, you can use the FutureSet upgrade feature.

Input	Component	Maker	Code	Key
(CD)	CD player	KENWOOD	8028, 8037	AUDIO
	TV 1			
	TV 2			
	CABLE			

### 2 Hold down the ENT key until the backlight flashes twice.

- At this time all inputs become available regardless of any earlier registration.

For step 2 through step 8, make sure you start the next step within five seconds of completing the previous one. If more than five seconds elapses between any two steps, you will need to go back and start over from step 2.

### 3 Press the VIDEO, AUDIO, or TV key repeatedly to select the desired component.

VIDEO key	AUDIO key	TV key
1 VIDEO1 (SAT)	1 CD (CD)	1 TV1
2 VIDEO2 (LD)	2 TAPE1 / MD (TAPE)	2 TV2
3 VIDEO3 (VCR)	3 PHONO	3 CABLE
4 VIDEO4 (DSS)		

- Example: To register the component connected to the VIDEO 1 jack, select **VIDEO 1 (VCR1)**.



### 4 Use the numeric keys to enter the setup code.

- Example: Press "5258" to register a LD player made by KENWOOD.
- The backlight flashes once each time a number is entered.
- If an invalid setup code is entered the remote will output one long blink; disregard that code and return to the beginning of step 4.
- If you push an invalid key, the remote will exit the setup mode.

### 5 Press the POWER key, and check to see that the component you want to control turns on.

If the component does not react, and there is more than one setup code, enter another setup code and try again.

- PLAY, TUNING/SKIP (++) or MULTI CONTROL key can also be used instead of POWER key.
- If the component is already on, pressing POWER key will turn it off.

### 6 Press the ENT key to store the code you have just input.

- The backlight flashes twice.
- This code replaces any previous setup codes entered for the respective component.

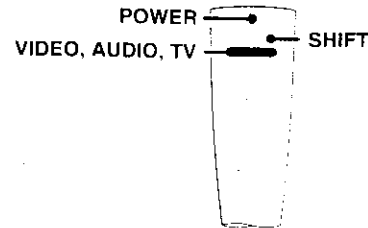
### 7 Repeat steps 3 to 6 to register additional components until all components have been registered.

- If you have components that are not remote controllable, like a record player (etc.), you will need to register a Non-IR code at the respective input. This keeps the respective input in the remote control's cyclic list so you can select it using the remote control. Please consult the owner's manual of the components you are connecting for information regarding remote controllability. The list of Non-IR codes is included at the beginning of the Setup code chart.

Continued to next page

## Operating other components

This operation lets you operate the registered components (KENWOOD audio components with system control turn on and off automatically with the receiver via the system control connections).



### 3 Once setup codes have been entered for all components, hold down the ENT key until the backlight flashes twice.

- Once registered, the display on the receiver shows the component type instead of the default input name. Example: if you register a VCR at the VIDEO 1 track, "VCR" appears instead of "VIDEO 1 (VCR 1)".
- After initial setup, any VIDEO or TV (TV1, TV2, CABLE) inputs that have not been programmed with a setup code or Non-IR code are deleted from the cyclical list. The PHONO input will be deleted if a Non-IR code was not registered.

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Although each setup code is designed to work with a number of different models, certain codes may not work with some models. (Also, certain codes may only operate some of the functions available on a given model.)

### 1 Use the VIDEO, AUDIO, or TV keys to select the component you desire.

- Pressing the VIDEO or AUDIO key also changes the input selector on the receiver. If you do not want to change the current input, press the SHIFT key before step 1.

#### VIDEO key

- 1 VIDEO1 (VCR 1)
- 2 VIDEO2 (VCR 2)
- 3 VIDEO3 (DVD)
- 4 VIDEO4 (DVD)
- 5 AV AUX

#### AUDIO key

- 1 CD (CD)
- 2 TAPE1 / MD (TAPE)
- 3 TUNER
- 4 PHONO

#### TV key

- 1 TV1
- 2 TV2
- 3 CABLE

### 2 Press the SHIFT key and then press the POWER key (within 3 seconds).

- Pressing the SHIFT key is only required when turning the selected component on or off. Pressing the POWER key directly turns the receiver on and off.

### 3 Press the operation keys you desire.

- See "Remote operation of other components" at the end of this manual for a list of keys available with each component.

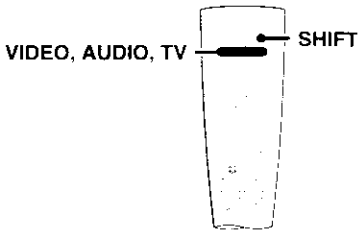
The remote control mode remains in the set at the component selected in step 1 mode until you select another component (etc.).

#### Note

Be sure to point the remote control at the remote sensor on the receiver when you want to operate KENWOOD components connected by system control cords. Otherwise, point the remote control at the component you want to operate.

## Changing (confirming) the operation mode

This operation lets you change the remote control operation mode without changing the input selector. You may find this useful when you want to control one component while using another. (For example, if you want to rewind the tape deck while listening to a CD.) This operation is also useful if you don't know the which mode the remote control is set to. Executing this operation allows you to change or reconfirm the operation mode you desire.

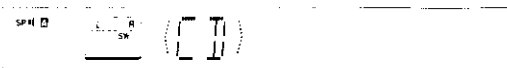


### 1 Press the SHIFT key.

- To operate a TV, start from step 2

Go to step 2 within 3 seconds.

### 2 Press the VIDEO, AUDIO or TV key repeatedly to display the remote control mode for the component you want to control.



The component to be controlled is displayed in parenthesis.

- Pressing any other keys after the **SHIFT** key cancels the shift function and sends the normal code associated with the respective key.
- The input selector does not change during this operation.
- If you press **VIDEO** or **AUDIO** key more than 3 seconds after pressing the **SHIFT** key, the input selector changes together with the operation mode.

### 3 Execute the desired operations.

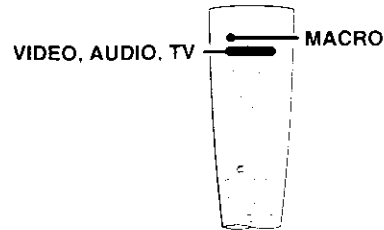
- See "Remote operation of other components" for a list of keys available with each component. → 12

The operation mode remains set at the component specified in step 2.

To return control to the original component, press **SHIFT** and then press the **VIDEO** or **AUDIO** key to return to the original control mode.

## Preparing for automatic operations (MACRO play)

The macro play function allows you to set the remote to control several components in succession. After completing this setup, you can perform a series of operations automatically. Enter the setup codes for the components you want to control beforehand.



### 1 Make a plan of the macro play you want to Setup.

The order of the operations may be fairly complex and you may not be remember all of the necessary commands during the setup procedure. Use the space provided below to write down the operations in the order you are going to enter them.

1		11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

- Up to 20 steps can be memorized for each macro.
- The example below shows the plan for step 2 (which occupies a total of 9 steps):

1	TV + SHIFT + POWER	3 steps
2	FUNCTION SHIFT + 4	2 steps
3	VIDEO + VIDEO	2 steps
4	SHIFT + POWER	2 steps
Total		9 steps

- If you attempt to store more than 20 steps, the remote will output one long blink and exit the macro programming mode.
- Enter channel numbers (for the monitor TV, etc.) exactly as you would using the original remote.

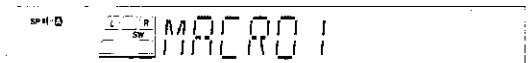
### 2 Press and hold the MACRO key until the backlight flashes twice.

Perform each of the following steps within 5 seconds.

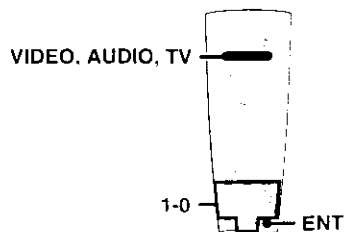
### 3 Press the VIDEO, AUDIO, or TV key to select the macro location. (MACRO1, 2, and 3 respectively)

- You can store up to 3 different macros, one at each key: **VIDEO** → "MACRO 1", **AUDIO** → "MACRO 2", **TV** → "MACRO 3"
- The backlight flashes once when you select the macro location.
- Pressing a key other than **VIDEO**, **AUDIO**, or **TV** cancels the macro program mode.

When VIDEO is pressed



## Setup code correlation



### 4 Press the keys to be operated in order.

#### EXAMPLE:

This example shows you how to create a macro that turns on the TV, sets the TV to the appropriate input, selects the receiver's input selector to LD, and turns on the LD player. All you have to do is insert the laser disc!

- 1 Press TV > SHIFT > POWER to turn on the TV.
- 2 Press FUNCTION SHIFT > "4" (TV / SAT. / VIDEO) to set the TV to the appropriate video input.
- 3 Press VIDEO twice to select the LD player registered at VIDEO 2.
- 4 Press SHIFT and POWER to turn on the LD player.

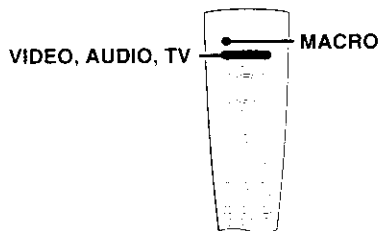
- In order to allow verification of the remote control mode, the name of the selected input appears in the receiver's display when the VIDEO, AUDIO or TV key is pressed. When the VIDEO or AUDIO key is pressed the receiver's input also changes.

### 5 Press the MACRO key so that the backlight flashes twice.

- The macro is stored at the locations specified in step 5. If another macro was previously stored at the same location, it is erased.
- Repeat steps 1 through 5 to program up to 3 macros.

This completes the macro programming procedure.

## Executing an automatic operation



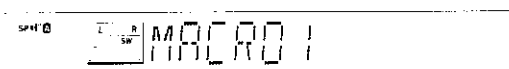
### 1 Press the MACRO key.

Go to step 2 within 3 seconds.

### 2 Press the VIDEO, AUDIO or TV key to execute the corresponding macro play.

- "MACRO" appears in the front panel and the pre-programmed macro is performed.
- VIDEO → "MACRO 1", AUDIO → "MACRO 2", TV → "MACRO 3"
- Some devices take up to 1 second to power on. The macro function has an automatic delay after any power function output.
- Pressing a key other than AUDIO, VIDEO, or TV cancels the macro program mode.

When VIDEO is pressed



### Deleting a setup code

Perform each step within 5 seconds.

- 1 Hold down the ENT key until the backlight flashes twice.
  - At this time all inputs become available regardless of any earlier registration.
- 2 Select the component to be deleted. Press the VIDEO, AUDIO, or TV key repeatedly to select the desired component.
  - Example 1: To delete the registration of the component connected to the VIDEO 1 jacks, select VIDEO 1.
- 3 Enter the 3 digit code "991".
- 4 Hold down the ENT key until the backlight flashes twice.
  - To resume all of the factory settings, proceed step 1, then enter "981" (Resetting the microcomputer)

### Checking a setup code

Perform each step within 5 seconds.

- 1 Hold down the ENT key until the backlight flashes twice.
- 2 Select the component with setup code you want to check. Press the VIDEO, AUDIO, or TV key repeatedly to select the desired component.
- 3 Enter the 3 digit code "990".
  - The backlight flashes twice immediately after the "0" is input to confirm input.
- 4 Press the 1 key and count the number of times the backlight blinks. This is the first number of the 4 digit setup code.
  - If the backlight does not blink, the first digit in the setup code is 0.
- 5 Press the 2 key and count the number of times the backlight blinks. This is the second number of the 4 digit setup code.
  - If the backlight does not blink, the second digit in the setup code is 0.
- 6 Press the 3 key and count the number of times the backlight blinks. This is the third number of the 4 digit setup code.
  - If the backlight does not blink, the third digit in the setup code is 0.
- 7 Press the 4 key and count the number of times the backlight blinks. This is the fourth number of the 4 digit setup code.
  - If the backlight does not blink, the fourth digit in the setup code is 0.



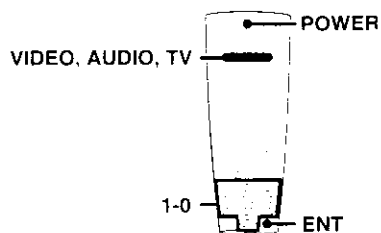
## FutureSet upgrade option

FutureSet allows you to update the remote control so it can operate new components which do not appear in the setup code list at the end of the manual.

This function allows you to register new setup codes for any or all of the following command positions:

**VIDEO1, VIDEO2, VIDEO3, VIDEO4, TV1, TV2, CABLE, CD, TAPE1/MD.**

FutureSet codes are stored in memory. Each time a FutureSet upgrade is performed, any previous information in the FutureSet memory location is erased. Please inform your customer service representative if FutureSet has been previously used.



- 1** Write down the brand name and model number of your component in the space provided before you call.

	Type	Brand	Model No.	Remote Model No.
	TV	KENWOOD	KV7-????	RC-????
1				
2				
3				

- 2** Call our Free-Phone Consumer Help-Line and explain which components you would like to add to your remote control.

USA: 1-800-753-9860  
Canada: 1-800-644-0673

This number is designed specifically for FutureSet upgrades. Questions about system operation should be first addressed to your place of purchase.

- After our customer service representative records the brand name and model number of your component, he/she will ask you to hold the remote to the speaker portion of your telephone as shown below. Your remote control is KENWOOD model number: RC-R0906.
- The hours for customer service in USA and Canada currently are:  
Monday-Thursday 9:00 am - 7:00 pm EST  
Friday 9:00 am - 5:30 pm EST  
Saturday 12:00 pm - 4:00 pm EST

Complete steps 3 and 4 before holding the remote to the speaker portion of your telephone.

- 3** Hold down the ENT key until the backlight flashes twice.

- At this time all inputs become available regardless of any earlier registration.

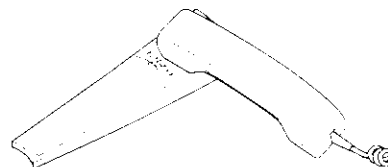
Go to step 4 within 5 seconds.

- 4** Enter the 3 digit code "997".

- The backlight flashes twice.
- The remote is now in the upgrade mode. The remote will wait for 30 seconds for a valid telephone download signal. If nothing is received within this time, it will revert to normal operation.

Go to step 5 within 30 seconds.

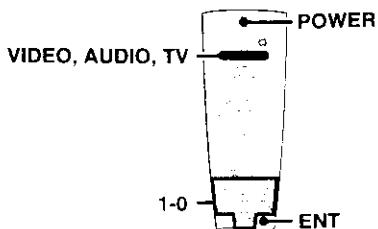
- 5** Hold your remote to the speaker portion of your telephone.



- For each setup code the operator can supply a setup code number. Should you ever need to change your input configuration this number can be used. Please record for your future reference. If for some reason this information is lost, see "Checking a setup code" in the "Setup code correlation" section for further information.

## Code selection after mode download

After successful completion of the download, step 5 above, the remote control automatically enters a special set-up mode which works as described below.



### 1 Select the component for which you want to register the information downloaded above.

Press the VIDEO, AUDIO, or TV key repeatedly to select the desired component.

#### VIDEO key

- 1 VIDEO1 (VCR 1)
- 2 VIDEO2 (VCR 2)
- 3 VIDEO3 (LD)
- 4 VIDEO4 (DVD)

#### AUDIO key

- 1 CD (CD)
- 2 TAPE1/MD (TAPE)
- 3 PHONO

#### TV key

- 1 TV1
- 2 TV2
- 3 CABLE

- Example 1: To register a code at the component connected to the VIDEO 1 jacks, select "VIDEO 1 (VCR)".

**Perform each of the following steps within 5 seconds.**

### 2 Press a numeric key.

- Press the 1 key to output the POWER code of the first component on your list in step 1 of the previous page. Continue to push buttons 2 through 9 (and 0) until the component you want to register turns on.
- Though the FutureSet memory in your remote control is quite large, only 10 setup POWER codes can be put on the 10 keypad at any one time. If you require a larger download, the standard setup procedure can be used. See "Registering setup codes for other components"; your customer service representative can supply you with the downloaded setup code numbers.

### 3 Repeat steps 1 and 2 to register all of the downloaded information.

- The setup code for the last POWER code to be sent in step 2 is automatically registered at the location selected in step 1.

### 4 Hold down the ENT key until the backlight flashes twice.

- At this time, the remote exits the special set-up mode and returns to its normal operation mode.

Symptom	Cause	Remedy
The backlight flashes five times during normal operation.	<ul style="list-style-type: none"> <li>The batteries are nearing exhaustion.</li> </ul>	<ul style="list-style-type: none"> <li>Replace with new batteries to preserve the currently registered setup information. — 3</li> </ul>
Subwoofer volume cannot be adjusted.	<ul style="list-style-type: none"> <li>Subwoofer is OFF</li> </ul>	<ul style="list-style-type: none"> <li>Turn the subwoofer ON</li> </ul>
Certain inputs cannot be selected using the remote control.	<ul style="list-style-type: none"> <li>No setup codes registered at for the respective inputs)</li> </ul>	<ul style="list-style-type: none"> <li>Register a setup code or Non-IR code at the respective inputs. — 5</li> </ul>
Remote control operation is not possible.	<ul style="list-style-type: none"> <li>The remote control is set to a different operation mode</li> <li>Batteries are exhausted</li> <li>The remote control unit is too far away from the main system, controlling angle is too large, or there is an obstacle between the receiver and the remote</li> <li>The audio cords and system control cords are not connected properly</li> <li>No software is loaded in the source component</li> <li>An attempt is made to play a tape which is being recorded in the cassette deck.</li> <li>The remote control has not been set to the operation mode for the component you wish to control</li> <li>The microprocessor of the remote control malfunctions</li> </ul>	<ul style="list-style-type: none"> <li>Press VIDEO, AUDIO, or TV to select the appropriate operation mode</li> <li>Replace with new batteries. — 3</li> <li>Operate the remote control unit within the controllable range. — 2</li> <li>Connect properly referring to "Setting up the system"</li> <li>Place software in the source component you want to play</li> <li>Wait until recording has completed</li> <li>Press the VIDEO, AUDIO, or TV key to activate the operation mode for the component you want to control before operation. — 7</li> <li>Reset the microprocessor. — 8</li> </ul>

## Specifications

Remote control system .....	Infrared
Transmitter power supply .....	6 V DC
Dimensions .....	W : 62 mm (2-7/16")
.....	H : 227 mm (8-15/16")
.....	D : 37 mm (1-7/16")
Weight (Excluding batteries) .....	170 g (0.4 lb)

Note

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

### NOTICE:

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

### 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 modification is made.

#### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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 or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help

# Remote operation of other components

Refer to the following for the type of remote control operations available for each component.  
The setup code for each component must be entered beforehand → 1.5.

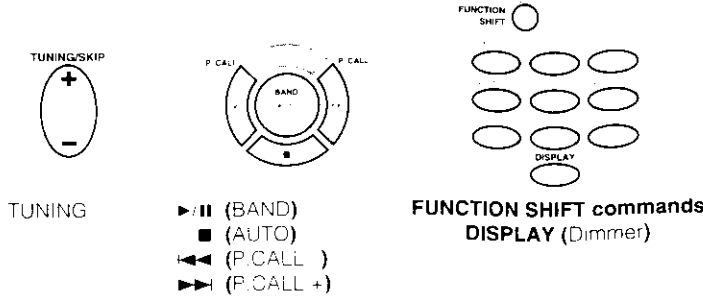
- 1 Use the **AUDIO**, **VIDEO**, or **TV** keys to select the component you want to control.
- 2 Press the keys corresponding to the operations you desire. Refer to the following sections for details.

- When pressing keys in succession, press each key firmly and be sure to wait at least 1 second before pressing the next key.
- Numeric keys function the same as the numeric keys on the original remote.
- To execute a **FUNCTION SHIFT** command, press the **FUNCTION SHIFT** key, then press the corresponding key within 3 seconds.

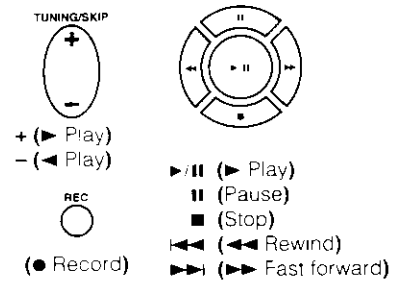
**Notes**

1. Although each setup code is designed to work with a number of different models, certain codes may not work with some models. (Also, certain codes may only operate some of the functions available on a given model.)
2. The charts below show the typical functions available for each component. Some manufacturers use different key combinations to perform similar functions. For that reason, we have programmed extra functions on some of the unused number keys to help you control your equipment. To find if your component has extra functions, press the **FUNCTION SHIFT** key, then press a number key. Repeat this procedure for each number key.

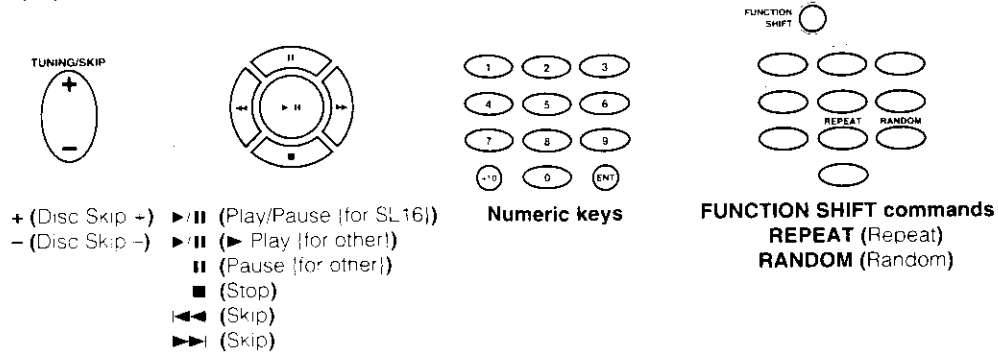
## Tuner operations



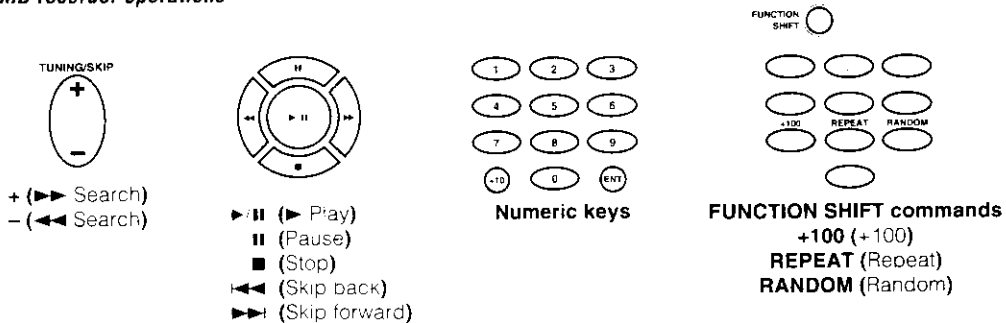
## Cassette deck operations



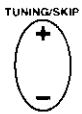
## CD player operations



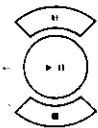
## MD recorder operations



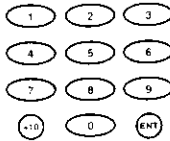
**TV operations**



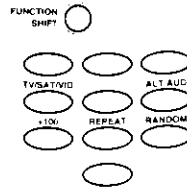
+ (Channel +)  
- (Channel -)



▶ || (Mute)  
|| (Volume -)  
■ (Volume +)

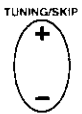


**Numeric keys**

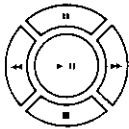


**FUNCTION SHIFT commands**  
TV/SAT./VID (Input selector)  
ALT AUDIO (Alternate audio)  
+100 (TV TEXT)  
REPEAT (Text off)  
RANDOM (Mix)

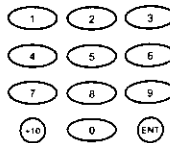
**VCR operations**



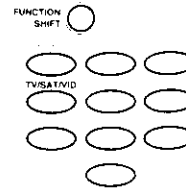
+ (Channel +)  
- (Channel -)



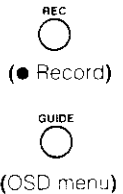
▶ || (▶ Play)  
|| (Pause)  
■ (Stop)  
◀◀ (◀◀ Rewind)  
▶▶ (▶▶ Fast forward)



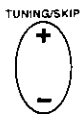
**Numeric keys**



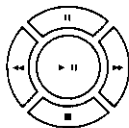
**FUNCTION SHIFT commands**  
TV/SAT./VID (Input selector)



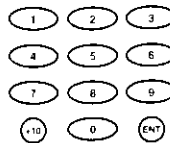
**LD player operations**



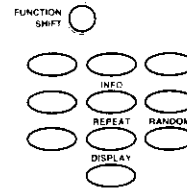
+ (A, A/B)  
- (B)



▶ || (▶ Play)  
|| (Pause)  
■ (Stop)  
◀◀ (◀◀ Skip back)  
▶▶ (▶▶ Skip forward)



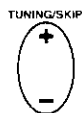
**Numeric keys**



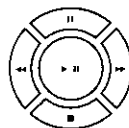
**FUNCTION SHIFT commands**  
INFO (Frame-time)  
REPEAT (Repeat)  
RANDOM (Random)  
DISPLAY (Display)



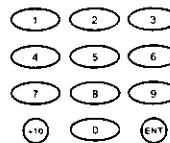
**Satellite tuner operations**



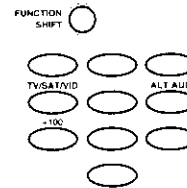
+ (Channel +)  
- (Channel -)



▶ || (Select)  
|| (↑)  
■ (↓)  
◀◀ (←)  
▶▶ (→)



**Numeric keys**



**FUNCTION SHIFT commands**  
TV/SAT./VID (Input selector)  
ALT AUDIO (Alternate audio)  
+100 (+100)



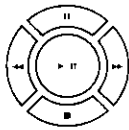
4

**DSS receiver operations**

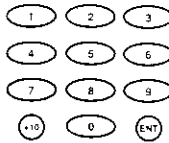
TUNING/SKIP



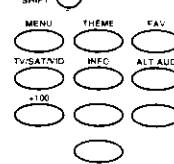
+ (Channel +)  
- (Channel -)



▶|| (Select)  
|| (↑)  
■ (↓)  
◀◀ (←)  
▶▶ (→)

**Numeric keys**

FUNCTION SHIFT

**FUNCTION SHIFT commands**

**MENU** (Menu)  
**THEME** (Theme)  
**FAV.** (Favorite)  
**TV/SAT./VID** (Input selector)  
**INFO** (Information)  
**ALT AUDIO** (Alternate aud o)  
**+100** (+100)

GUIDE



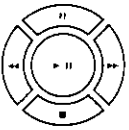
(C- Guide)

**Cable tuner operations**

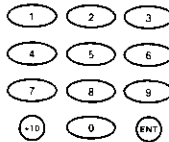
TUNING/SKIP



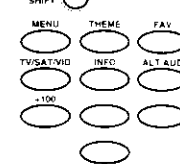
+ (Channel +)  
- (Channel -)



▶|| (Select)  
|| (↑)  
■ (↓)  
◀◀ (←)  
▶▶ (→)

**Numeric keys**

FUNCTION SHIFT

**FUNCTION SHIFT commands**

**MENU** (Menu)  
**THEME** (Theme)  
**FAV.** (Favorite)  
**TV/SAT./VID** (input selector)  
**INFO** (Page)  
**ALT AUDIO** (Alternate audio)  
**+100** (+100)

GUIDE



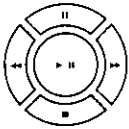
(OSD menu)

**DVD player operations**

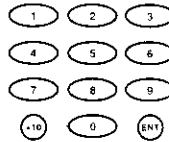
TUNING/SKIP



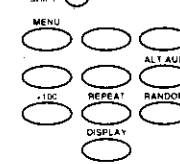
+ (Disc skip +)  
- (Disc skip -)



▶|| (▶ Play)  
|| (Pause)  
■ (Stop)  
◀◀ (Skip back)  
▶▶ (Skip forward)

**Numeric keys**

FUNCTION SHIFT

**FUNCTION SHIFT commands**

**ALT AUDIO** (Alternate audio)  
**+100** (+100)  
**REPEAT** (Repeat)  
**RANDOM** (Random)  
**DISPLAY** (Display)

REC



(● Record)

GUIDE



(OSD menu)

# Setup code chart

RT-1099C-1988

## Non-IR codes

CD player	8900
Cassette deck	7900
LD player	5900
Phono	0900

Satellite	2900
TV	1900
VCR	4900

DVD	6900
DSS	3900
MD	9900

## IR Setup codes

Admiral	4048
Adventura	4000
Aiko	4278
Aiwa	4000, 4037, 4307, 4406
Aka	4041, 4315
American High	4035
Asha	4240
Audiovox	4037
Beaumarck	4240
Bel & Howell	4104
Broksonic	4121, 4184, 4361
Calix	4037
Canon	4035
Carver	4081
CCE	4072, 4278
Citizen	4037, 4278
Colt	4072
Craig	4037, 4047, 4072, 4240
Curtis Mathes	4035, 4041, 4060
Cybernex	4240
Daewoo	4045, 4278
Denon	4042
Dynatech	4000
Electrohome	4037
Electroponic	4037
Emerex	4032
Emerson	4000, 4002, 4037, 4043, 4121, 4184, 4278, 4361
Fisher	4047, 4066, 4104
Fuji	4033, 4035
Funai	4000
Garrard	4000
GE	4035, 4060
Go Video	4232
GoldStar	4037, 4038
Gradiente	4000
Harley Davidson	4000
Harman/Kardon	4038
Harwood	4072
Headquarter	4046
Hi-Q	4047
Hitachi	4041, 4042
Hanser	4041
VC	4008, 4041, 4067
EC	4037, 4278
Lenwood	4038, 4041, 4067

KLH	4072
Kodak	4035, 4037
Lloyd's	4000
Logik	4072
LXI	4037
Magnavox	4035, 4039, 4081, 4149
Magnin	4240
Marantz	4035, 4081
Marta	4037
Matsushita	4035, 4162, 4454
MEI	4035
Memorex	4307
Memorex	4000, 4035, 4037, 4039, 4046, 4047, 4048, 4104, 4240, 4307
MGA	4043
MGN Technology	4240
Mnolta	4042
Mitsubish	4043, 4067, 4173
Motorola	4035, 4048
MTC	4000, 4240
Multitech	4000, 4072
NEC	4038, 4041, 4067, 4104
Nikko	4037
Nikon	4034
Noblex	4240
Olympus	4035
Optimus	4037, 4048, 4104, 4162, 4454
Panasonic	4035, 4162, 4454
Penny	4035, 4037, 4038, 4042, 4240
Pentax	4042
Philco	4035
Philips	4035, 4081
Pilot	4037
Pioneer	4067
Profitronic	4240
Protec	4072
Pulsar	4039
Quarter	4046
Quartz	4046
Quasar	4035, 4162, 4454
Radio Shack	4000, 4037
Radix	4037
Randex	4037

RCA	4042, 4060, 4149
Realistic	4000, 4035, 4037, 4046, 4047, 4048, 4066, 4104
Ricon	4034
Runco	4039
Samsung	4045, 4240
Sanky	4039, 4048
Sansui	4041, 4067
Sanyo	4046, 4047, 4104, 4240
Scott	4043, 4045, 4121, 4184
Sears	4035, 4037, 4042, 4046, 4047, 4066, 4104
Sharp	4048
Shintom	4072
Shogun	4240
Singer	4072
Sony	4032, 4033, 4034, 4035
STS	4042
Sylvania	4000, 4035, 4043, 4081
Symphonic	4000
Tatung	4041
Teac	4000, 4041
Technics	4035, 4162
Teknika	4000, 4035, 4037
TMK	4240
Toshiba	4043, 4045, 4066
Totevision	4037, 4240
Unitech	4240
Vector	4045
Vector Research	4038
Video Concepts	4045
Videosonic	4240
Wards	4000, 4035, 4042, 4047, 4048, 4060, 4072, 4081, 4149, 4240
XR-1000	4000, 4035, 4072
Yamaha	4038
Zenith	4033, 4034, 4039

## TV Setup codes

Admiral	1093
Aiko	1092
Akai	1030
Alaron	*179
Ampro	*751
Anam	*180
Anam National	1056
AOC	1019, 1030
Audiovox	*180
Barco	1410, 1479
Baysonic	*180
Belcor	1019
Bell & Howell	1016, 1154
Bradford	*180
Brockwood	1019
Candie	1030, 1056
Carnivale	1030
Carver	1054
Celebrity	1000
Cheerful	1092, *451
Citizen	1030, *039, 1056, 1060, *092
Concerto	1056
Contec	1180
Craig	1180
Crown	1039, *180
Curtis Mathes	1030, 1039, 1060, 1154
CXC	1180
Daewoo	1019, 1039, 1092, 1451
Daytron	1019
Denon	1145
Dumont	1017, 1019
Dwir	1720, *774
Electroband	1000
Emerson	1019, *039, 1154, 1178, *179, 1180, 1236, 1282, 1463
Envision	1030
Fisher	1154, 1159
Fujitsu	1179
Funa	1179, *180
Futuretech	1180
GE	1021, 1047, 1051, 1055, 1178, 1282, 1451
Gibraltar	1017, 1019, 1030
GoldStar	1019, 1030, 1039, 1178
Gradiente	1053, 1056
Grunpy	1179, 1180
Hallmark	*178
Harvard	1180
Hitachi	1056, 1145
Infinity	1054
JBL	1054
JCB	1000
JVC	1053

KEC	1180
Kenwood	1019, 1030
KTV	1030, 1039, 1180
LG	1056
Logik	1016
Luxman	1056
LXI	1047, 1054, 1154, 1156, 1178
Magnavox	1030, 1054, 1187
Majestic	1016
Marantz	1030, 1054
Matsushita	1250
Megatron	1145, 1178
Memorex	1016, 1056, *150, 1154, 1178
MGA	*019, 1030, *150, 1178
Midland	1017, 1039, 1047, 1051
Minutz	1021
Mitsubishi	1019, 1093, 1150, 1178
Motorola	1055, 1093
MTC	1019, 1030, 1056, 1060
Multitech	1180
NAD	1156, 1166, 1178
NEC	1019, 1030, 1056
Nikko	1030, 1092, 1178
Nosh	1018
NTC	1092
Orwa	1180
Optimus	1154, 1166, 1250
Optonica	1093, 1165
Orion	1236
Panasonic	1051, 1055, *250
Penny	1018, 1019, *021, 1030, 1039, 1047, 1051, 1060, *156, 1178
Philco	1019, 1030, 1054, 1145
Philips	1054
Pilot	1019, 1030, 1039
Pioneer	1166
Portland	1019, 1039, 1092
Prism	1051
Proscar	1047
Proton	1178, 1466
Pulsar	1017, 1019
Quasar	1051, 1055, 1165, 1250
Radio Shack	1019, 1030, 1039, 1047, 1056, 1154, 1165, 1178, 1180

RCA	1019, 1019, 1047, 1090
Realistic	1019, 1030, 1039, *056, 1154, 1165, *178, 1180
Rinco	*017, 1030
Sampo	*030, *039
Samsung	1019, *030, 1039, *056, *060, *178
Samsux	1039
Sanse	1451
Sanyo	*154, *159
Scimitar	1019
Scotch	1178
Scott	1019, *178, *179, 1180, 1236
Sears	1047, 1054, 1056, 1154, 1156, 1159, 1178, 1179
Semibox	1180
Semp	1156
Sharp	1039, 1093, 1165, 1491
Shogun	1019
Signature	1016
Simpson	*187
Sony	1000
Soundesign	1178, 1179, 1180
SSS	1019, 1180
Starlite	1180
Supreme	1000
Sylvania	1030, 1054
Tandy	1093
Tatung	1055
Technics	1051, 1250
Techno Ace	1179
Techwood	1051, 1056
Teknika	1016, 1019, 1039, 1054, 1058, 1060, 1092, 1150, 1179, 1180
Telefunken	1056
TMK	1056, 1178
Toshiba	1060, 1154, 1156
Totevision	1039
Vector Research	1030
Victor	1053
Vidikron	1054
Vidtech	1019, 1178
Wards	1016, 1019, 1021, 1030, 1054, 1056, 1165, 1178, 1179
Yamaha	1019, 1030
Zenith	1016, 1017



**teellite Setup codes**

Hostar	2280
General Instrument	2361

Jerrold	2361
Primestar	2361

Realistic	2052
Uniden	2052

**player Setup codes**

Triver	5194
Video Vision	5023
Tachi	5023
Winwood	5258
Magnavox	5194
Parantz	5194

Mitsubishi	5059
NAD	5059
Panasonic	5204
Philips	5194
Pioneer	5023, 5059
Quasar	5204

Sega	5023
Sony	5204
Theta Digital	5194

**'S Setup codes**

Onastar	3772
Hostar	3775
S	3775
Tachi	3819
Phonetic Network Systems	3749

Jerrold	3627
Magnavox	3722, 3724
Memorex	3724
Panasonic	3701
Philips	3722, 3724

Primestar	3627
RCA	3566
Sony	3639
Toshiba	3790
Uniden	3724

**'D Setup codes**

Winwood	6534
Mitsubishi	6521
Panasonic	6490

Philips	6539
Pioneer	6525
RCA	6522

Sony	6533
Toshiba	6503

**ble Setup codes**

BC	0001, 0003, 0007, 0008, 0013, 0014, 0017
Eggo	0153
Tronix	0022
Cher	0022, 0153
Planetenna	0022
Planetview	0022
Century	0153
Prizen	0153
Four Voice	0025
Amtronics	0040
Intec	0019
Stern	0002
Perquest	0015, 0040

Garrard	0153
Gemini	0015
General Instrument	0476
GoldStar	0040, 0144
Hamlin	0009, 0020, 0259
Hytex	0007
Jasco	0153
Jerrold	0003, 0012, 0014, 0015, 0476
Memorex	0000
Movie Time	0063, 0156
NSC	0063, 0156
Oak	0007, 0019
Optimus	0021
Panasonic	0000, 0021, 0107

Paragon	0000
Philips	0025, 0153
Pioneer	0144, 0753
Pulsar	0000
Radio Shack	0015
RCA	0021
Regal	0020, 0259
Regency	0002
Runco	0000
Samsung	0040, 0144
Scientific Atlanta	0008, 0017, 0477
Signal	0015, 0040
SL Marx	0040
Sprucer	0021
Starcom	0003, 0015

**ble Setup codes (continued)**

Argate	0015, 0040
Perquest	0015
Ivania	0001
Andy	0258
Planetview	0040
Xscan	0001

Tocom	0012, 0013
Toshiba	0000
Tusa	0015
TV86	0063
Unika	0022, 0153

United Artists	0007
United Cable	0003
Universal	0022, 0153
Viewstar	0063, 0258
Zenith	0000, 0525

**CD Player Setup codes**

Aiwa	8124, 8157
California Audio Lab	8029
Carver	8157, 8179
Denon	8003
DKK	8000
Emerson	8305
Fisher	8048, 8088, 8179
Garrard	8393
Genexxa	8032, 8305
Hitachi	8032
JVC	8072, 8655
Kenwood	8028, 8037, 8048, 8190, 8858, 8859
Krell	8157
Linn	8157

LX	8305
Magnavox	8157, 8305
Marantz	8029, 8157
MCS	8029
Mission	8157
NSM	8157
Onkyo	8101
Optimus	8000, 8032, 8037, 8048, 8145, 8179, 8305, 8468
Panasonic	8029
Philips	8157
Pioneer	8032, 8305, 8468
Proton	8157
QED	8157
Quasar	8029
RCA	8053, 8179, 8305

Realistic	8179
Rote	8157
SAE	8157
Sansui	8157, 8305
Sanyo	8179
Scott	8305
Sears	8305
Sharp	8037
Sony	8000, 8185, 8604, 8605
Soundesign	8145
Teac	8393
Technics	8029, 8303
Victor	8072
Wards	8157
Yamaha	8036, 8187

**DAT deck Setup codes**

Carver	7158
Marantz	7158

Philips	7158
Sony	7093

**Cassette deck Setup codes**

Aiwa	7029, 7197
Carver	7029
Denon	7076
Fisher	7074
Garrard	7308
JVC	7273, 7274
Kenwood	7071, 7183, 7234

Magnavox	7029
Marantz	7029
Optimus	7027, 7220
Philips	7029
Pioneer	7027, 7220
Sansui	7029

Sony	7170, 7243, 7291
Teac	7308
Technics	7229
Victor	7273, 7274
Wards	7027
Yamaha	7094, 7097

**MD Setup codes**

Kenwood	9826
Sony	9000, 9490

**Misc. audio Setup codes**

Jerrol	8459, 8520
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Scientific Atlanta	8460
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Starcom	8459
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# KENWOOD

**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 \_\_\_\_\_ Serial Number \_\_\_\_\_