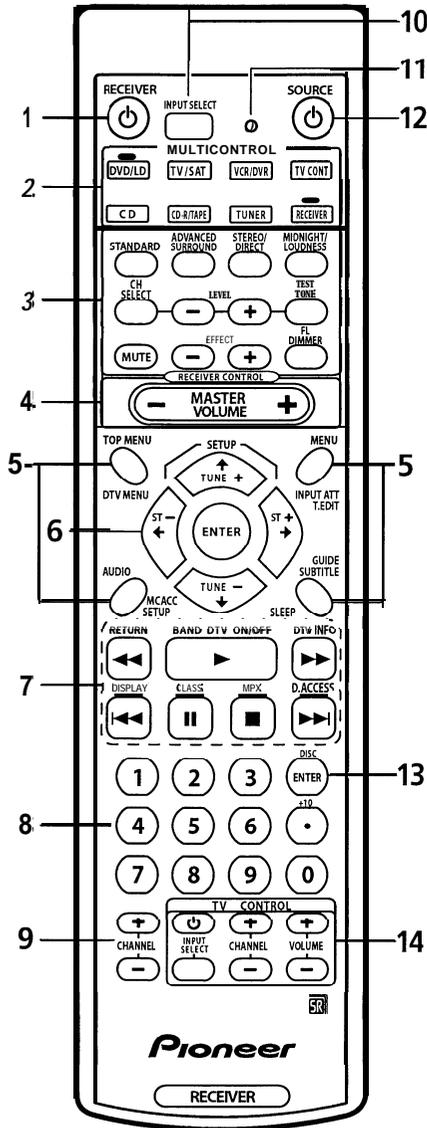


Remote control



1 RECEIVER

This switches between standby and on for this receiver,

2 MULTI CONTROL buttons

Press to select control of other components (see *Controlling the rest of your system* on page 58).

RECEIVER

Switches the remote to control the receiver (used to select the features such as **SLEEP**, **MCACC SETUP**, etc). Also use this button to set up surround sound (page 44, page 51).

3 RECEIVER CONTROL buttons

STANDARD

Press for Standard decoding and to switch between the various Pro Logic II and Neo:6 options (page 38).

ADVANCED SURROUND

Use to switch between the various surround modes (page 39).

STEREO/DIRECT

Switches between direct and stereo playback, Direct playback bypasses the tone controls and channel levels for the most accurate reproduction of a source (page 39).

MIDNIGHT/LOUDNESS

Switches to Midnight or Loudness listening (page 42).

CH SELECT

Selects a speaker when setting up the surround sound of the receiver (page 52).

LEVEL +/-

Adjusts the levels of the surround sound of the receiver (page 52).

TEST TONE

Sounds the test tone when setting up the surround sound of the receiver (page 52).

MUTE

Mutes the sound (or restores the sound if it has been muted).

EFFECT +/-

Adds or subtracts the amount of effect with different advanced surround modes (page 39).

FL DIMMER

Dims or brightens the display.

4 MASTER VOLUME +/-

Use to set the listening volume.

5 Receiver and component control buttons *(Press the corresponding MULTI CONTROL button first to access).*

These controls function according to the component you've selected.

TOP MENU

Displays the disc 'top' menu of a DVD.

DTV MENU

Displays menus on a digital TV

AUDIO

Changes the audio language or channel with DVD discs,

MCACC SETUP

Use to setup your speaker system using the multi-channel acoustic calibration system.

MENU

Displays the disc menu of DVD-Video discs. It also displays TV and DTV menus

INPUT ATT

Attenuates (lowers) the level of an analog input signal to prevent distortion,

T.EDIT

Use to memorize and name a station for recall using the **STATION +/-** buttons (page 55).

GUIDE

Displays the guides on a digital TV.

SUBTITLE

Displays/changes the subtitles included in multilingual DVD-Video discs.

SLEEP

Use to put the receiver in sleep mode and select the amount of time before the receiver turns off,

6 $\leftarrow \rightarrow \downarrow \uparrow$ (**TUNE +/-, ST +/-**) /**ENTER**

Use the arrow buttons when setting up your surround sound system (see page 44). Also used to control DVD menus/options and for deck 1 of a double cassette deck player, Use the **TUNE +/-** buttons to find radio frequencies and use **ST +/-** to find preset stations (page 55).

7 Component/Tuner control buttons

The main buttons (\blacktriangleright , \blacksquare , etc.) are used to control a component after you have selected it using the **MULTI CONTROL** buttons, The tuner/DTV controls above these buttons can be accessed after you have selected the corresponding **MULTI CONTROL** button (**TUNER** or **TV/SAT** (when connected to DTV)).

RETURN

Returns to the last screen selected when using a digital TV tuner.

BAND DTV ON/OFF

Switches between the tuner AM and FM bands (page 54). Also switches a digital TV on/off (page 60).

DTV INFO

Use to bring up information screens on a digital TV.

DISPLAY

Use to switch the display between the station preset name and the frequency for the tuner.

CLASS

Switches between the three banks (classes) of radio station presets (page 55).

MPX

Switches between stereo and mono reception of FM broadcasts, If the signal is weak then switching to mono will improve the sound quality (page 54).

D.ACCESS

After pressing, you can access a radio station directly using the number buttons (page 54).

8 Number buttons

Use the number buttons to directly select a radio frequency (page 54) or the tracks on a CD, DVD, etc.

9 CHANNEL +/-

Use to select channels when using a VCR, DVR, etc. Also use to skip tracks backward or forward on CDs, DVDs, etc.

10 INPUT SELECT

Use to select the input source.

11 LED

This lights when a command is sent from the remote control.

12 SOURCE

Press to turn on/off other components connected to the receiver,

13 DISC (ENTER)

The button's use depends on the component selected, It can be used to enter commands for TV or DTV, and can also be used to select a disc in a multi-CD player,

14 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to the **TV CONT** button, Thus if you only have one TV to hook up to this system assign it to the **TV CONT MULTI CONTROL** button, If you have two TVs, assign the main TV to the **TV CONT** button,



Use to turn on/off the power of the TV.

(TV CONTROL) INPUT SELECT

Use select the TV function,

CHANNEL +/-

Use to select channels,

VOLUME +/-

Use to adjust the volume on your TV.

Chapter 9:

Controlling the rest of your system

Setting the remote to control other components

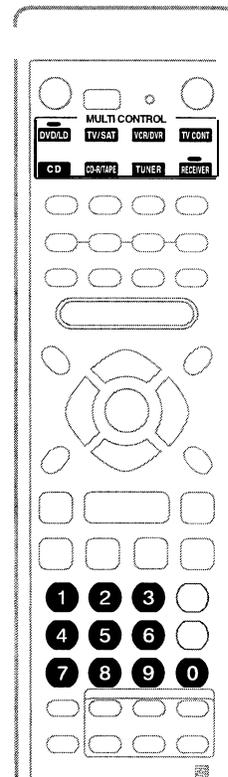
There are several ways to set your remote to control the other components in your system. The easiest way to do this is to assign the component's manufacturer preset code (starting on page **63**) to one of the **MULTI CONTROL** buttons on the remote control. The buttons can be set to control the following components:

Button	Controllable Components
DVD/LD:	DVD or LD player
TV/SAT:	TV or Satellite tuner
VCR/DVR:	VCR or Digital Video Recorder
CD:	CD player
CD-R/TAPE:	CD Recorder, Tape deck or MD player
TV CONT:	TV or Cable TV tuner
TUNER:	FM/AM tuner

 **Note**

- The remote control will exit an operation after 1 minute of inactivity.

Selecting preset codes directly



- 1 While pressing the **RECEIVER** button, press and hold the **1** button. The LED blinks,
- 2 Press the **MULTI CONTROL** button for the component you want to control. The LED lights,
- 3 Use the number buttons to enter the preset code (see page **63**) The LED blinks again,

If the correct code has been input the power of the component being input will turn on or off.

The power of the component being input will only turn on or off if that component is able to be turned on directly by remote control.

- You can only input a code for the component type written on each **MULTI CONTROL** button (except **RECEIVER** and **TUNER**).
- Even if you don't input a preset code for the TV (**TV/SAT MULTI CONTROL** button) you will be able to control your TV using the dedicated **TV CONTROL** on the remote if you have assigned it to the **TV CONT** button,
- You may not be able to use a particular code even if it is listed on page 63.
- The remote control buttons will not be able operate other equipment unless preset with the method above.

4 Repeat steps 2 through 3 to try a different code, or to enter a code for another component you want to control.

5 When you're done, press RECEIVER.

Clearing all the remote control settings

You can clear all presets and restore the factory default settings.

- **While pressing the RECEIVER button, press and hold the 0 button for three seconds.**

The LED blinks three times indicating the settings have been restored to the factory presets,

Direct function

- Default setting: ON

You can use the direct function feature to control one component using the remote control while at the same time, using your receiver to playback a different component. This could let you, for example, use the remote control to set up and listen to a CD on the receiver and then use the remote control to rewind a tape in your VCR while you continue to listen to your CD player.

When direct function is on, any component you select (using the **MULTI CONTROL** buttons) will be selected by both the receiver and the remote control. When you turn direct function off, you can operate the remote control without affecting the receiver,

1 While pressing the RECEIVER button, press and hold the 4 button.

The LED blinks,

2 Press the MULTI CONTROL button for the component you want to control.

The LED lights.

3 Use the number buttons to enter either 1 (direct on) or 2 (direct off).

The LED blinks again,

4 Repeat steps 2 through 3 for the other components you want to control.

5 When you're done, press RECEIVER.



Note

- You can't use direct function for **TUNER**.

Controls for TVs

This remote control can control components after entering the proper codes or teaching the receiver the commands (see *Setting the remote to control other components* on page 58 for more on this). Use the **MULTI CONTROL** buttons to select the component,

Button(s)	Function	Components
TV 	Switches the DTV on or off,	DTV
	Switches the TV or CATV between standby and on.	Cable TV/Satellite TV/TV
INPUT SELECT	Switches the TV input. (Not possible with all models,)	TV
CHANNEL +/-	Selects channels.	Cable TV/Satellite TV/TV/DTV
VOLUME +/-	Adjust the TV volume.	Cable TV/Satellite TV/TV/DTV
TOP MENU	Press to display the DTV menu.	DTV
MENU	Select different menus from the DTV functions.	DTV
	Select the menu screen.	Cable TV/Satellite TV/TV
AUDIO	Use to switch DTV audio tracks	DTV
GUIDE	Use as the GUIDE button for navigating	DTV
	Use to choose the BLUE commands on a DTV menu,	DTV
	Use to choose the GREEN commands on a DTV menu,	DTV
	Use to choose the RED commands on a DTV menu,	DTV
	Use to choose the YELLOW commands on a DTV menu,	DTV
	Press to get information on DTV programs,	DTV
	Switches DTV on or off.	DTV
	Use to select closed captioning with DTV.	DTV
Number Buttons	Use to select a specific TV channel.	Cable TV/Satellite TV/TV/DTV
+10 button	Use to add a decimal point when selecting a specific TV channel,	DTV
ENTER/DISC	Use to enter a channel.	Cable TV/Satellite TV/TV/DTV

Button(s)	Function	Components
↔ ↑ ↓ & ENTER	Select or adjust and navigate items on the menu screen, ENTER brings up the DTV menus,	DTV
	Press to select or adjust and navigate items on the menu screen.	Cable TV/Satellite TV/TV/DTV



Note

- The four **TV CONTROL** buttons on the remote control are dedicated to control the TV assigned to the **TV CONT** button. Thus if you only have one TV to hook up to this system assign it to the **TV CONT MULTI CONTROL** button, If you have two TVs, assign the main TV to the **TV CONT** button.

Controls for other components

This remote control can control these components after entering the proper codes or teaching the receiver the commands (see *Setting the remote to control other components* on page 58 for more on this). Use the **MULTI CONTROL** buttons to select the component.

Button (s)	Function	Components
SOURCE	Press to switch the component between standby and on.	CD/MD/CD-R/VCR/DVD/LD/DVR player/Cassette deck
⏮	Press to return to the start of the current track, Repeated presses skips to the start of previous tracks,	CD/MD/CD-R/DVD/LD player
	Play the reverse side of the tape on a reversible deck.	Cassette deck
⏭	Press to advance to the start of the next track, Repeated presses skips to the start of following tracks.	CD/MD/CD-R/DVD/LD player
	Play the forward side of the tape on a reversible deck.	Cassette deck
⏸	Pause playback or recording.	CD/MD/CD-R/VCR/DVD/LD/DVR player/Cassette deck
▶	Start playback.	CD/MD/CD-R/VCR/DVD/LD/DVR player/Cassette deck
▶▶	Hold down for fast forward playback.	CD/MD/CD-R/VCR/DVD/LD/DVR player/Cassette deck
◀◀	Hold down for fast reverse playback.	CD/MD/CD-R/VCR/DVD/LD/DVR player/Cassette deck
■	Stops playback (on some models, pressing this when the disc is already stopped will cause the disc tray to open).	CD/MD/CD-R/VCR/DVD/LD/DVR player/Cassette deck

Button (s)	Function	Components
Number buttons	Directly access tracks on a program source,	CD/M D/CD-R/VCR/LD player
	Use the number buttons to navigate the on-screen display.	DVD/DVR player
+10 button	Selects tracks higher than 10 . (For example, press +10 then 3 to select track 13.)	CD/MD/CD-R/VCR/LD player
ENTER/DISC	Changes the search mode.	DVD
	Chooses the disc.	Multiple CD player
	Use as the ENTER button.	VCR
	Displays the setup screen for DVR players.	DVR player
	Changes sides of the LD.	LD player
MENU	Displays menus concerning the current DVD or DVR you are using.	DVD/DVR player
↑	Pauses the tape,	Cassette deck
↓	Stops the tape	Cassette deck
ENTER	Starts playback.	Cassette deck
↔/⇒	Fast rewinds/fast forwards the tape.	Cassette deck
↔⇒ ↑ ↓ & ENTER	Navigates DVD menu/options.	DVD/DVR Player
CHANNEL +/-	Selects channels.	VCR/DVD/DVR Player
TOP MENU	Displays the disc 'top' menu of a DVD.	DVD/DVR Player
AUDIO	Changes the audio language or channel.	DVD/DVR Player
GUIDE	Displays/changes the subtitles on multilingual DVDs.	DVD/DVR Player

Preset Code List

You should have no problem controlling a component if you find the manufacturer in this list, but please note that there are cases where codes for the manufacturer in the list will not work for the model that you are using. There are also cases where only certain functions may be controllable after assigning the proper preset code.



Note

. The TV, STB and DTV codes can only be set to the **TV/SAT** or **TV CONT** button

DVD

Manufacturer Code

TOSHIBA **001**
SONY002
 PANASONIC 003
 JVC 004
 SAMSUNG 005
 SHARP 006
 AKAI 007
 RCA 009, 011
 DENON003, **010**
 HITACHI **012**
 PHILIPS **013**
 ZENITH **014**
 SONY 016 (video game)
LOEWE013
GOLDSTAR014
 MICROSOFT
 017(Videogame)
 PIONEER 000, 003, 008,
111

LD

Manufacturer Code

SONY 101
 PANASONIC **105, 106**
 PHILIPS **104**
KENWOOD103
 MITSUBISHI 100
 RCA **107**
 PIONEER 100,111(DVDLD)

TV TV/SAT TV CONT

Manufacturer Code

RCA 601, 610, 615, 616,
 617, 618, 661, 662, 609
 ZENITH 603, 620
 MAGNAVOX 607, 610,
 603, 612, 629

GE 601, 608, 607, 610, 617,
6027628, 618

PHILIPS 607
SONY604
 PANASONIC 607, 608,622
 TOSHIBA 605, 602, 626, 621
 SHARP 602, **619, 627**
 HITACHI 606, **610, 624,**
625, 618

SANYO **621, 614**
 MITSUBISHI 609, 610, 602,
 621

GOLDSTAR610, 623, 621,
602

JVC **613, 623**
 RADIOSHACK 0,623,
621, 602

FUNAI 658
 GRANDIENTE 630
LOEWE 607
 PIONEER 600

STB (SATELLITE/

CATV) TV/SAT TV CONT

Manufacturer Code

JERROLD 711, 701, 702,
 712, 704, 713, 703, 714,
716, 715
 S.ATLANTA 705, 706, 708,
 709
 ZENITH 707,717, **710**
 PIONEER 700

On digital STB

TV/SAT TV CONT

ManufacturerCode

RCA **201, 203**
SONY202
 ECHOSTAR 205

PRIMESTAR 206

BELL 208
 PIONEER 200, 207, **231**

DTV TV/SAT TV CONT

Manufacturer Code

PIONEER 229, 207
 PANASONIC 230

TUNER

Manufacturer Code

PIONEER 500

VCR

Manufacturer Code

ORION 445, 446, 424
 FUNAI **441**
 RCA 401, 406, 408, 414,
 405,413,411,415, **460** ,
 461,462,463,435
 ZENITH 403, 404, 417
 MAGNAVOX **414, 408,**
426, 403
 FISHER 410, 426, 412, 427,
 425, 420
 PANASONIC 408,432 ,
433

TOSHIBA 405, 409, 426
 JVC 428, 430, 429, 408, 414
 , 431, 407
 HITACHI 408, 401, 406,
436, 434

SONY 416, 417, 404, 408,
 457, 458, 459

MITSUBISHI
 409,420,421,422, **423,**
 424,408,407,456

SANYO 410,412, 425, 435
 SHARP 402, 418, 419, **456**

GOLDSTAR**411, 409**

OPTIMUS 408, 432, 433,
 402, 418, 419

GRADIENTE **441**

LOEWE414, 432

KENWOOD 456

PIONEER 400

DVD Recorder

Manufacturer Code

PIONEER 456

TAPE

Manufacturer Code

DENON810

FISHER **813**

JVC 802

KENWOOD 804, 807

MARANTZ 82 **1**

ONKYO 808, 809

OPTIMUS 800

SONY 801, 806

TEAC 805

TECHNICS 803

YAMAHA **811, 812**

PIONEER 800

CD

Manufacturer Code

DENON 309,346

JVC 303

KENWOOD310, 311, 321

MARANTZ 323, 312, 324,

346

ONKYO 320, 308, 307

OPTIMUS 300

PHILIPS 312, 322, 346

RCA 302, 319, 313

SANYO **313**

SONY 301, 316, 317, 318

**TEAC 305, 306, 327, 324,
325**

TECHNICS 304, 326

YAMAHA 315, 314, 328,

347

PIONEER 300, 345

MD

Manufacturer Code

SONY 901

KENWOOD 903

SHARP 902

TEAC 904

ONKYO 905

DENON 906

PIONEER 900, 902, 907