

TOSHIBA

DIRECTV® High-Definition Receiver/HDTV Tuner

DST-3100

OWNER'S MANUAL

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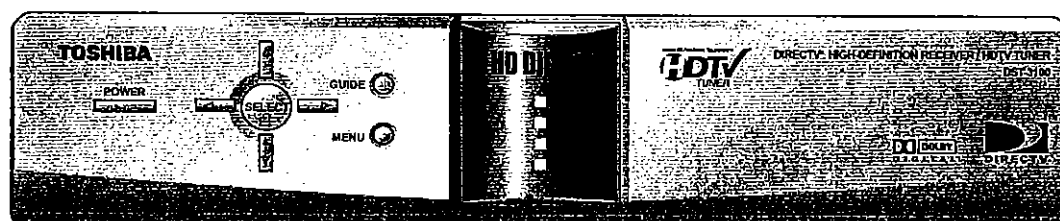
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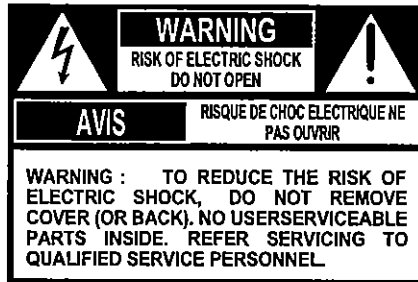
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SAFETY PRECAUTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The symbol for CLASS II (Double Insulation)

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT; FULLY INSERT.

CAUTION: To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location. See service procedure.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

WARNING: Changes or modifications made to this equipment, not expressly approved by Toshiba, or parties authorized by Toshiba, could void the user's authority to operate the equipment.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

In the spaces provided below, record the Model and Serial No. located on the rear panel of your receiver. Retain this information for future reference.

Model No. _____

Serial No. _____

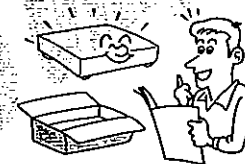
IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS MANUAL FOR FUTURE REFERENCE.

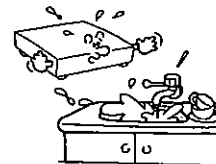
This set has been designed and manufactured to ensure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

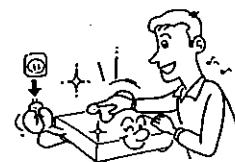
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.



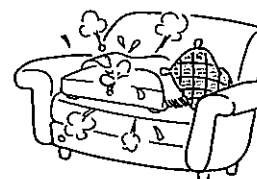
5. Do not use this apparatus near water.



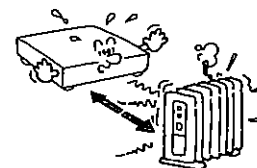
6. Clean only with a dry cloth.



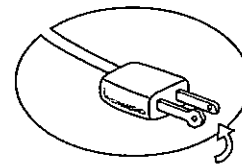
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point it exits the apparatus.

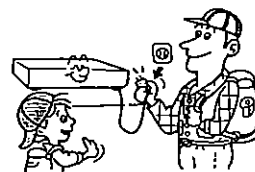


11. Only use attachments/accessories specified by the manufacturer.

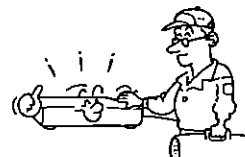
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug the apparatus during lightning storms or when unused for long periods of time.



14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



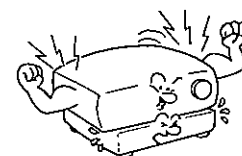
15. Never overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.



16. Never insert objects of any kind through the openings in the apparatus, as they may touch dangerous voltage points or short-out parts, which could result in a fire or electric shock. Never spill liquid of any kind on the apparatus.



17. Never place a heavy object on the apparatus. The object may fall, causing serious personal injury and serious damage to the apparatus.





FCC Information

Federal Communications Commission (FCC)—

This equipment complies with both Part 15 and Part 68 of the FCC rules.

Part 68

This equipment complies with Part 68 of the FCC rules. On the back cover of this equipment is a label that contains, among other information, the FCC Part 68 Registration Number and the ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

- An FCC compliant telephone cord and modular jack is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See installation instructions for details.
- The REN (ringer equivalence number) is used to determine the quantity of devices which may be connected to the phone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5). To be certain of the number of devices that may be connected to a line, as determined by the total number of RENs, contact the local telephone company.
- It is unlikely, but if your **DST-3100** causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But, if advance notice isn't practical, the telephone company will notify the company as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
- The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
- If you experience problems with your **DST-3100**, for repair or warranty information, please refer to Support section at the end this manual. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

This equipment DOES NOT contain any user serviceable parts. All repairs should be performed only by Toshiba Authorized Service station personnel.

This equipment cannot be used on public coin service provided by the telephone company. Connection to party line service is subject to state tariffs. (Contact the state public utility commission, public service commission, or corporation commission for information).

Part 15

FCC Declaration of Conformity Compliance Statement (Part 15)

The Toshiba **DST-3100 DIRECTV®** High Definition Receiver/HDTV Tuner complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

The responsible party for compliance to these rules is: Toshiba America Consumer Products, Inc. 82 Totowa Rd., Wayne, NJ 07470, Ph: (888) 867-4377.

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 generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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 removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving satellite dish antenna.
- Increase the separation between the equipment and the DST-3100 receiver.
- Connect the equipment into an outlet on a circuit different from that to which the DST-3100 receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Disclosure Information

DIRECTV

Due to copyright restrictions, you may not be able to view some high-definition programs in high-definition format using this product.

ACTIVATION OF PROGRAMMING MAY BE SUBJECT TO CREDIT APPROVAL AND REQUIRES VALID SERVICE ADDRESS, SOCIAL SECURITY NUMBER, AND/OR MAJOR CREDIT CARD. DEPOSIT OR PREPAYMENT MAY BE REQUIRED.

Programming is subject to change. Receipt of DIRECTV programming is subject to the terms of the DIRECTV customer agreement; a copy is provided at DIRECTV.com and in your first bill. DIRECTV service is not available outside the U.S. DIRECTV® programming is sold separately and independently of DIRECTV System hardware. A valid programming subscription is required to operate DIRECTV System hardware. Activate your DIRECTV programming today at 1-800-DIRECTV (1-800-347-3288)

You may be able to subscribe to local channels from DIRECTV in certain areas. Additional equipment may be required in some markets. Check with your retailer or visit DIRECTV.com for information on availability of local channels from DIRECTV in your area.

For access to High-Definition programming, a triple LNB Multi-Satellite dish antenna, along with a High-Definition capable DIRECTV Receiver and High-Definition television, is required. Satellite dish antenna sold separately.

DIRECTV, the Cyclone Design logo and ADVANCED PROGRAM GUIDE are trademarks of DIRECTV, Inc., a unit of Hughes Electronics Corp., and are used with permission.

Macrovision®

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision and is intended for home and other limited pay-per-view uses only, unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Dolby Digital®

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

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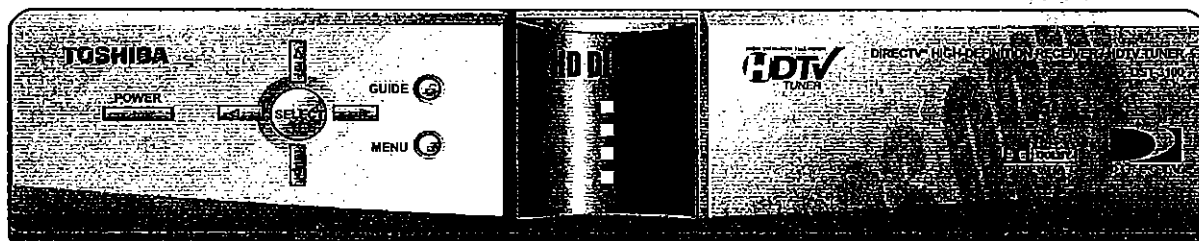
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Identification of Controls

Front Panel



POWER - Press to turn the DST-3100 receiver on and off. The power light illuminates when the unit is on.

SELECT - Press to access a highlighted guide or menu item.

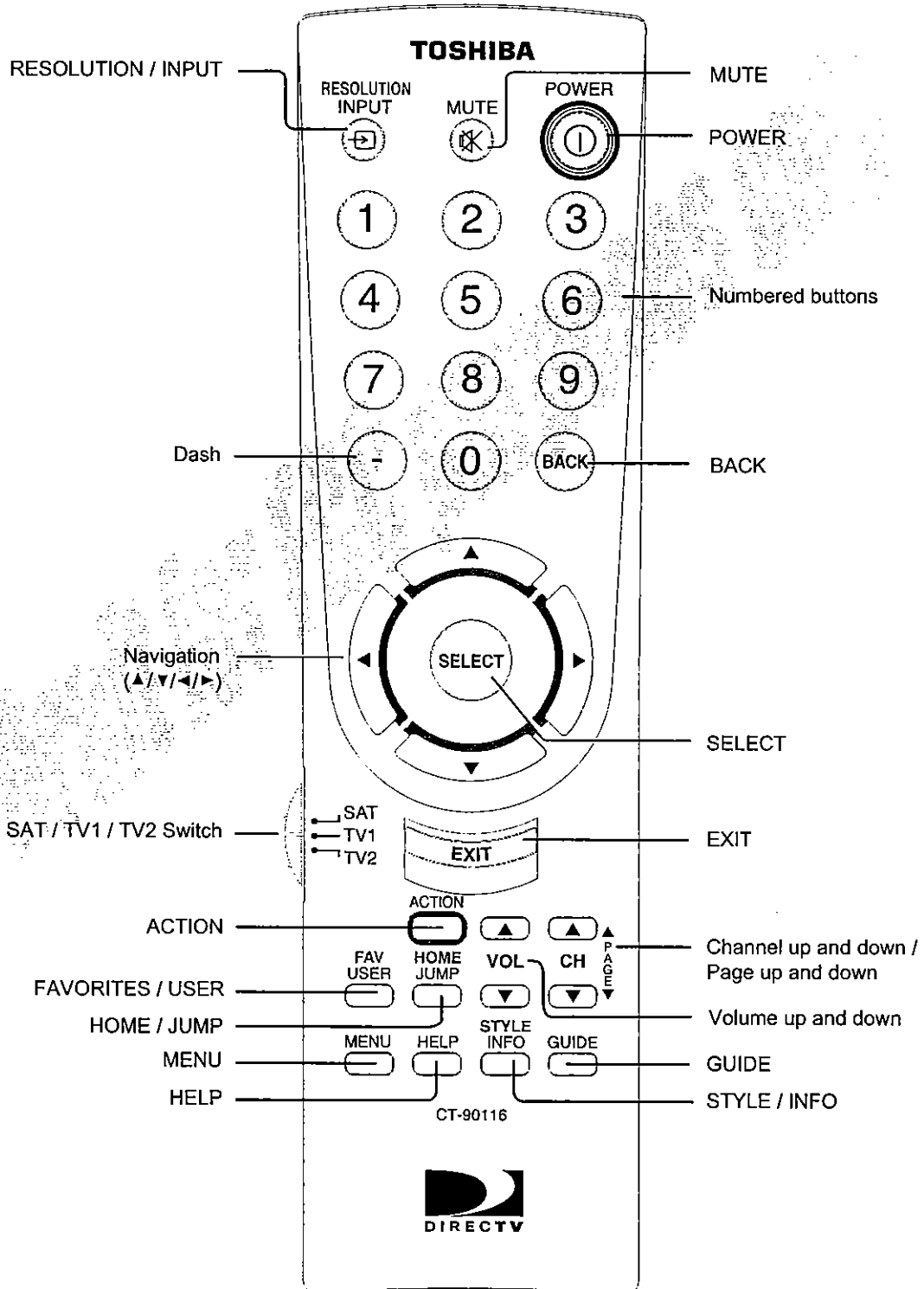
ARROWS (▲, ▼, ◀, and ▶) - Press to move the highlight around the program guide and menus. The up and down arrow keys also change channels when menus are not displayed.

GUIDE - Press to display the on-screen guide, which lists all available programs.

MENU - Press to display the menu system, to access all options and settings.

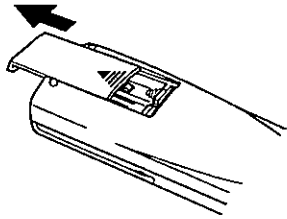
Identification of Controls (continued)

Remote Control

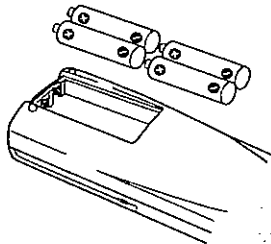


Loading Batteries

- 1** Open the cover.

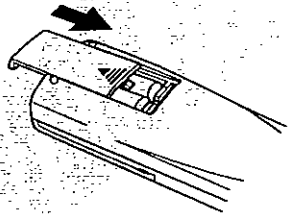


- 2** Insert the four AAA batteries.



Make sure to match the + and - on the batteries to the marks inside the battery compartment.

- 3** Close the cover.



Programming Your Remote Control

- 1** Slide the remote control's SAT/TV1/TV2 switch to either TV1 or TV2.

- 2** While holding down MUTE, use the numbered buttons to enter the appropriate 3-digit code for your brand of TV. (See the next page for applicable codes.)

Notes on batteries:

Improper use of batteries may cause battery leakage and corrosion. To operate the remote control correctly, follow the instructions below.

- Do not insert batteries into the remote control in the wrong direction.
- Do not charge, heat, open, or short-circuit the batteries. Do not throw batteries into a fire.
- Do not leave dead or exhausted batteries in the remote control.
- Do not use different types of batteries together, or mix old and new batteries.
- If you do not use the remote control for a long period of time, remove the batteries to avoid possible damage from battery corrosion.
- If the remote control does not function correctly or if the operating range becomes reduced, replace all batteries with new ones.
- If battery leakage occurs, wipe the battery liquid from the battery compartment, then insert new batteries.



Identification of Controls (continued)

Remote Control Codes

Admiral	014, 021
Akai	032, 070, 073
Alba	113
A-Mark	120
Amstrad	033
Anam	009, 041, 120, 121, 191, 198
AOC	005, 006, 019, 020, 120, 195, 212
Archer	120
Audiovox	120
Bauer	111
Baycraft	036
Brockwood	195
Broksonic	062, 191
Candle	006, 022, 023, 025, 036, 191, 195, 212
Capehart	019, 195
Circuit City	195
Citizen	006, 016, 022, 023, 024, 025, 026, 191, 212
Colortyme	073, 195
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Craig	036, 041, 191, 194
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CXC	041, 191
Daewoo	005, 024, 026, 029, 030, 031, 032, 198, 212, 219
Daytron	026, 195
Dixi	032, 088, 120
Dumont	195
Echostar	222
Electrohome	023, 073, 209, 213
Elta	032
Emerson	026, 027, 028, 033, 034, 035, 036, 037, 038, 039, 040, 041, 073, 122, 191, 192, 195, 196, 199, 220
Envision	006, 212
Etron	032
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Fujitsu	034, 194
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Futuretech	041, 191, 194
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Genexxa	113
Goldstar	005, 023, 026, 045, 046, 073, 088, 193, 212
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Grand	195
Gradiente	211
Grundig	047
Hallmark	195
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Hinari	034
Hitachi	023, 026, 048, 049, 050, 051, 052, 053, 054, 055, 085, 097, 126, 202, 218
Infinity	066
JBL	066
JC Penney	003, 005, 006, 016, 026, 031, 043, 096, 201, 214
Jensen	056, 073
JVC	057, 058, 059, 060
Kawasho	006, 073, 212
Kenwood	006, 073, 212
Kloss	022, 061, 110, 198
KTV	026, 039, 040, 041, 191, 196, 212
Lloyds	195
Lloytron	026
Loewe	088
Logik	018
Luxman	023
LXI	003, 063, 066, 090, 095, 117, 125, 201
Magnavox	006, 020, 025, 036, 064, 065, 066, 067, 068, 069, 073, 075, 110, 210, 212
Magnasonic	073
Marantz	006, 066, 073, 088, 212
Matsui	032, 109
Megatron	195
Memorex	018, 032, 090, 195, 220
MGA	004, 005, 006, 071, 073, 195
Mitsubishi	004, 005, 070, 071, 072, 097, 123, 195, 205, 207, 212
MTC	005, 006, 016, 023, 031, 195, 212
NAD	002, 117, 195
National	009, 197, 198
National Quentics	197
NEC	005, 006, 007, 017, 023, 073, 127, 212
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Normende	051
Normandie	217
Novabcam	061, 198
Nyon	201
Onwa	041, 191
Optonica	105, 107
Orion	194
Osaki	112
Panasonic	008, 009, 010, 011, 012, 066, 074, 185, 187, 189, 197, 198, 200, 206, 214, 216
Philco	005, 006, 025, 036, 064, 065, 068, 073, 110, 212
Philips	066, 088
Pioneer	002, 048, 051, 076, 208
Portland	005, 026, 212
Proscan	003
Proton	013, 019, 026, 036, 085, 124, 195
Pulsar	001
Quasar	008, 009, 077, 198, 200
Radio Shack	026, 041, 107, 112, 191, 198
RCA	003, 005, 015, 048, 079, 080, 081, 082, 083, 084, 086, 087, 125, 133, 134, 191, 198, 201, 208, 214, 215, 216
Realistic	090
Saba	051
Saisho	032, 033, 109
Sampo	006, 019, 198
Samwon	120
Samsung	005, 006, 016, 023, 032, 088, 112, 195, 204, 212, 221
Sanyo	042, 089, 090, 091, 092, 109
SBR	088
Schneider	088
Scott	026, 034, 037, 041, 093, 100, 191, 196, 201
Sears	003, 023, 034, 042, 063, 089, 090, 094, 095, 096, 098, 099, 101, 102, 103, 104, 117, 195, 203
Seimitsu	195
Sharp	026, 085, 091, 105, 106, 107, 108, 128, 129
Siemens	091
Signature	018
Silver	073
Solavox	112
Sony	000, 078, 109, 119, 122, 190

Soundesign	025, 036, 041, 191, 195
Spectricon	020, 120
Squareview	194
SSS	005, 041, 073, 191, 212
Supra	023
Supre-Macy	022
Sylvania	006, 025, 036, 064, 065, 066, 068, 073, 075, 100, 110, 111, 212
Symphonic	132, 192, 194
Tandy	105, 113
Tatung	009, 198
Technics	008
Techwood	023, 073
Teknika	004, 005, 016, 018, 022, 023, 024, 025, 026, 034, 036, 041, 114, 115, 186, 191, 212
Teleavia	051
Telefunken	051
Teletex	032
Tera	013
Thomas	195
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TMK	023, 073, 195
Toshiba	016, 090, 096, 117, 118, 131, 188
Tosonic	028
Totevision	026
Toyomenko	195
Universal	043
Vector Research	006
Victor	057
Video Concepts	070, 191
Vidtech	005, 195, 212
Viking	022
Wards	005, 006, 015, 018, 034, 036, 043, 064, 065, 067, 068, 107, 119, 212, 214, 215
Yamaha	005, 006, 212
York	195
Zenith	001, 018, 193
Zonda	120



Video Definitions

The video features explained here can be set by following the Audio/Video steps listed in the Additional Features section of this manual.

Video Formats

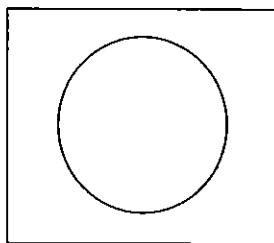
Standard 4:3

FULL: Same as incoming, native image.

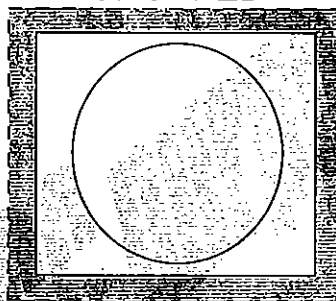
CROPPED: Image is expanded, causing some loss of the image around the edges of the screen.

LETTERBOX: Image is compressed and undistorted.

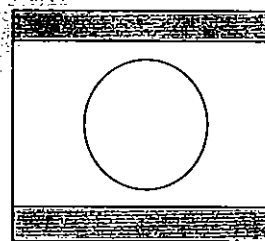
FULL



CROPPED



LETTERBOX



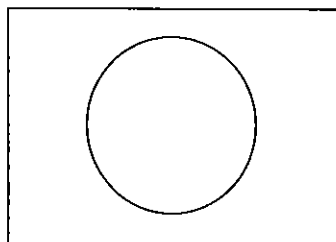
Wide 16:9

FULL: Same as incoming, native image.

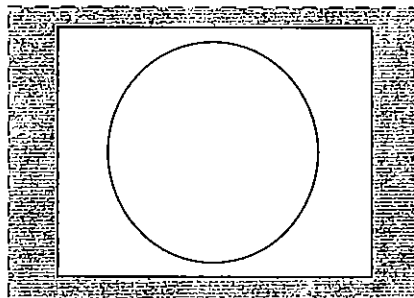
CROPPED: Image is expanded, causing some loss of the image around the edges of the screen.

SIDE PANELS: Image is compressed and undistorted. Black or gray bars appear on the left and right sides of the image.

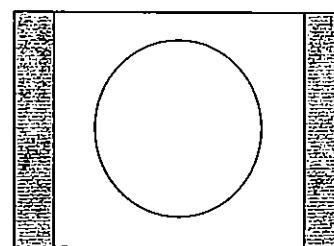
FULL



CROPPED



SIDE PANELS



Video Resolutions

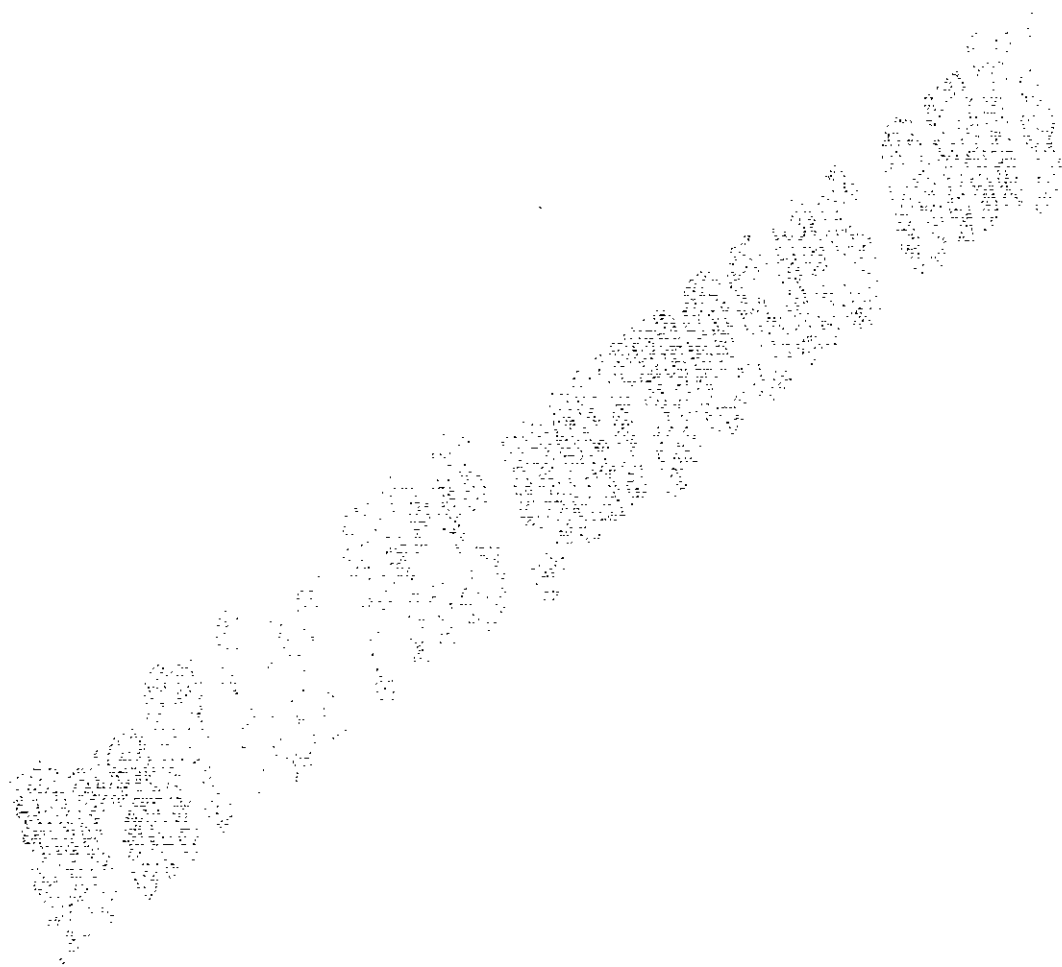
Set the video resolution based on the capabilities of your television. To quickly cycle through the available resolutions, press **ACTION + INPUT (RESOLUTION)** repeatedly.

High-Definition (HD)

- 1080i:** Most common HD setting. Use DVI or Component cables.
- 720p:** HD setting for Plasma and LCD monitors.

Standard Definition (SD)

- 480i:** Most common SD setting. Use S-Video, Composite, or RF cables.
- 480p:** SD setting commonly used on DVDs.



Connections

- Connecting to an Antenna
- Connecting to a SD TV
- Connecting to an HD TV equipped with DVI
- Connecting to an amplifier equipped with a digital audio input

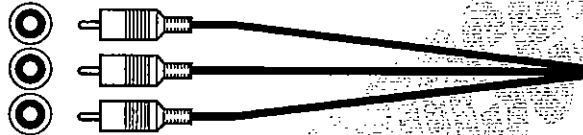
Cables

Refer to the diagram below to identify the types of cables that may be used to connect your receiver.

Cable Types



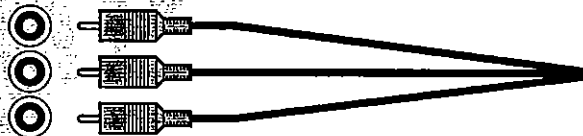
Coaxial (antenna) cable



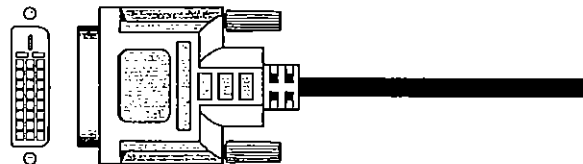
Standard stereo A/V cables
(typically color-coded yellow for video,
red and white for audio)



S-video cable



Component video cables
(typically color-coded red, green, blue)



DVI-D digital single-link cable



Digital Audio (Optical)

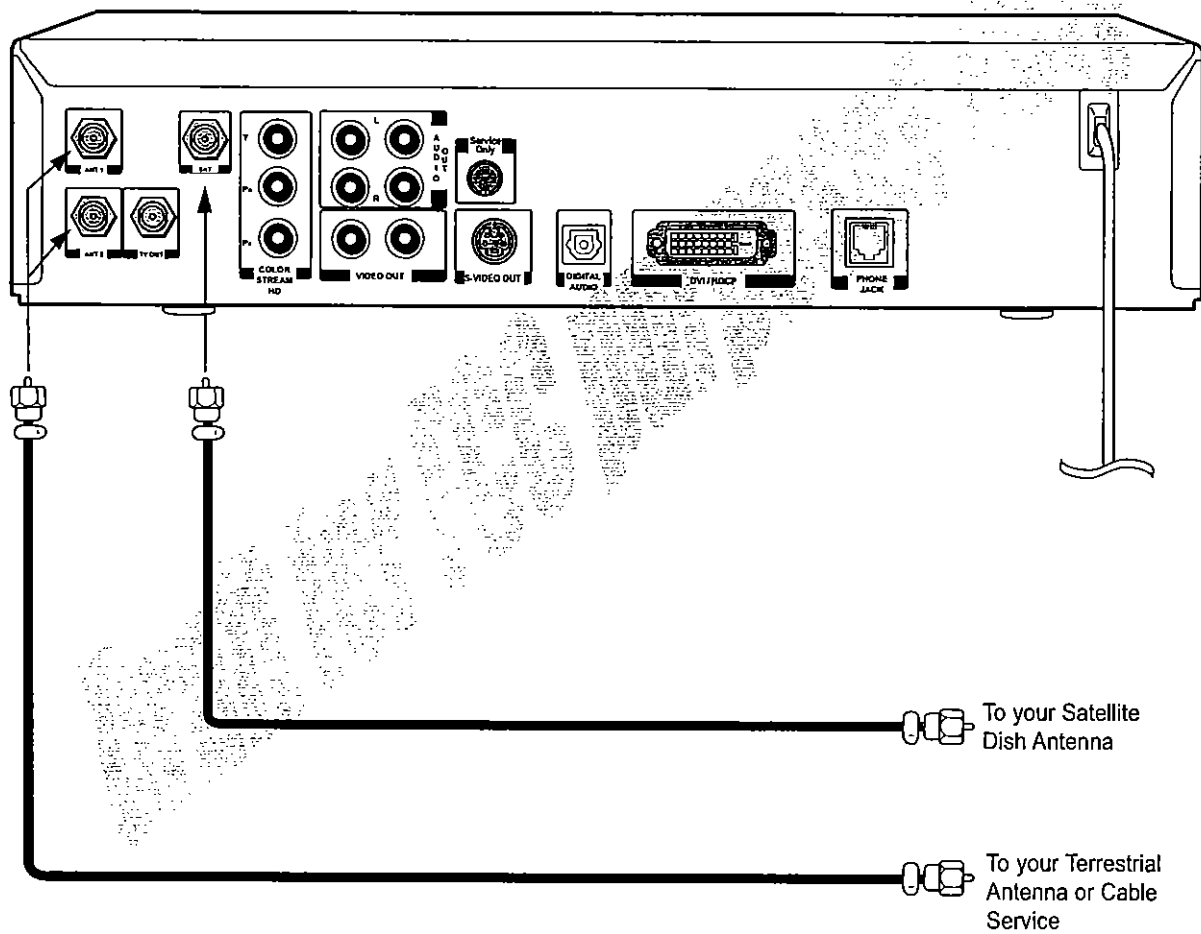


Connecting to an Antenna

Connect the receiver to a satellite dish, terrestrial antenna, or cable service.

DIRECTV® Satellite Dish Antenna/Terrestrial Antenna/Cable Service

Connections

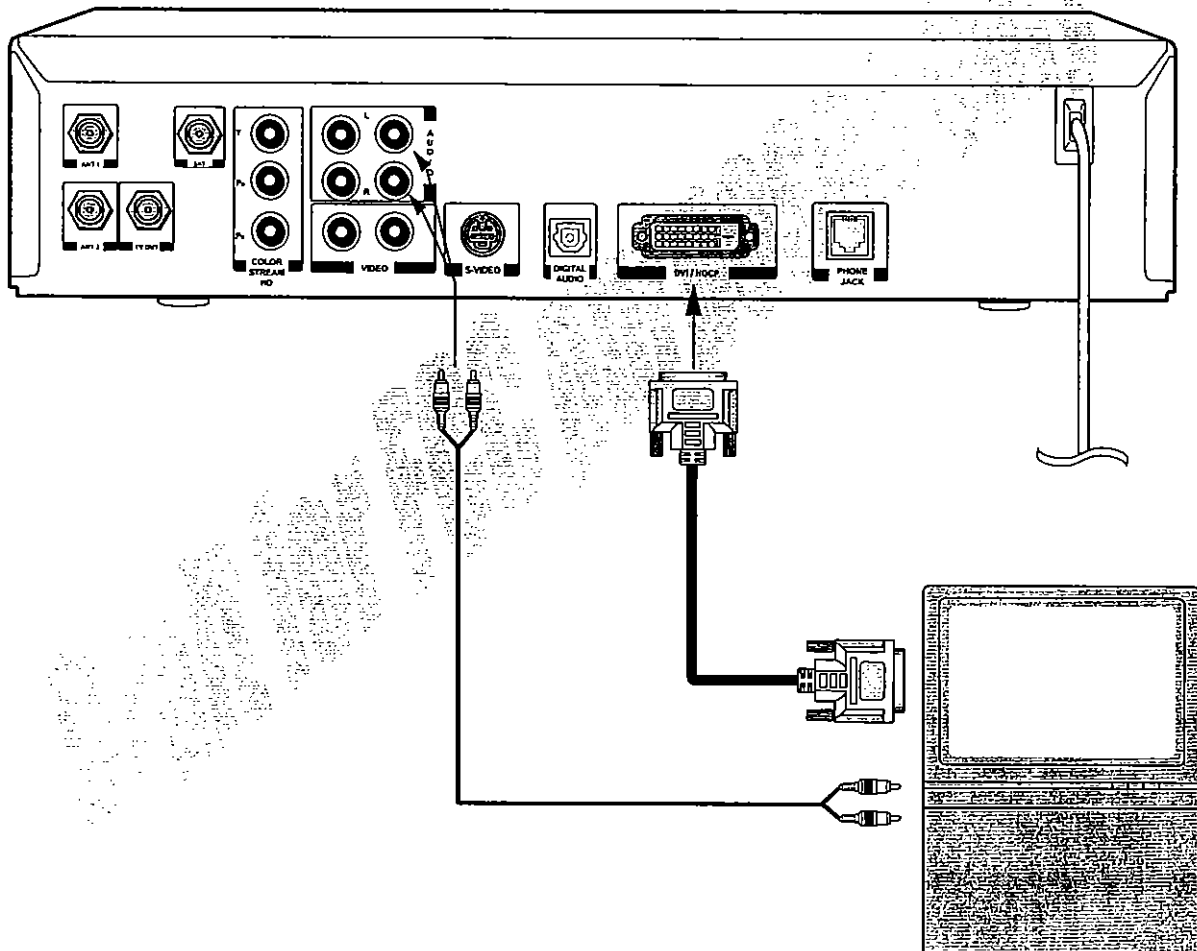




Connecting to a TV

Connect the receiver to your TV.

Connecting to an HDTV with DVI/HDCP

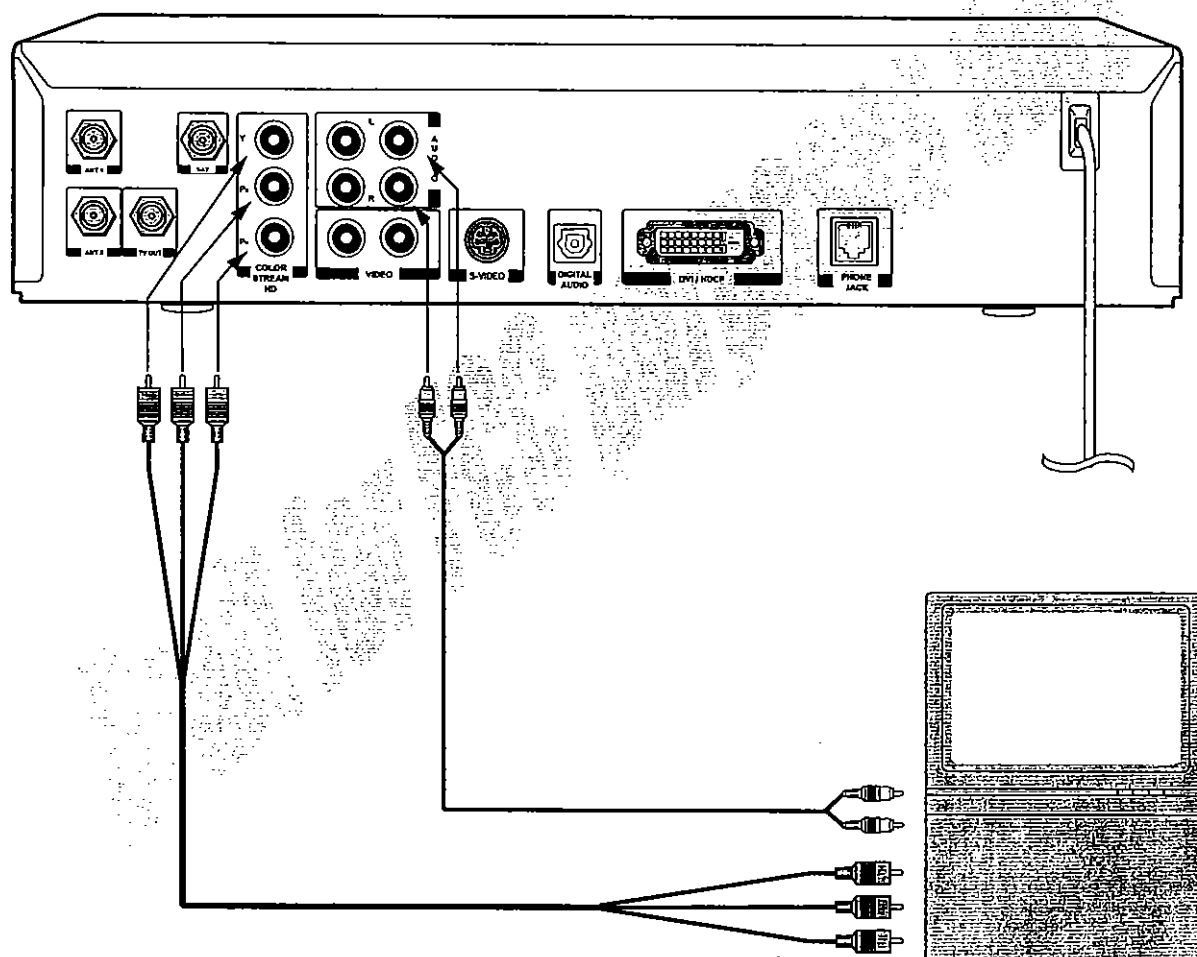


Notes

- Refer to the owner's manual of the connected TV as well.
- When you connect the receiver to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- If your television set has one audio input, connect the left and right audio outputs of the receiver to a Y cable adapter (not supplied) and then connect to your TV.

Connecting to an HDTV with Color Stream

Connections



Notes

- Refer to the owner's manual of the connected TV as well.
- When you connect the receiver to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- If your television set has one audio input, connect the left and right audio outputs of the receiver to a Y cable adapter (not supplied) and then connect to your TV.

INTERLACED outputs/inputs (ColorStream®)

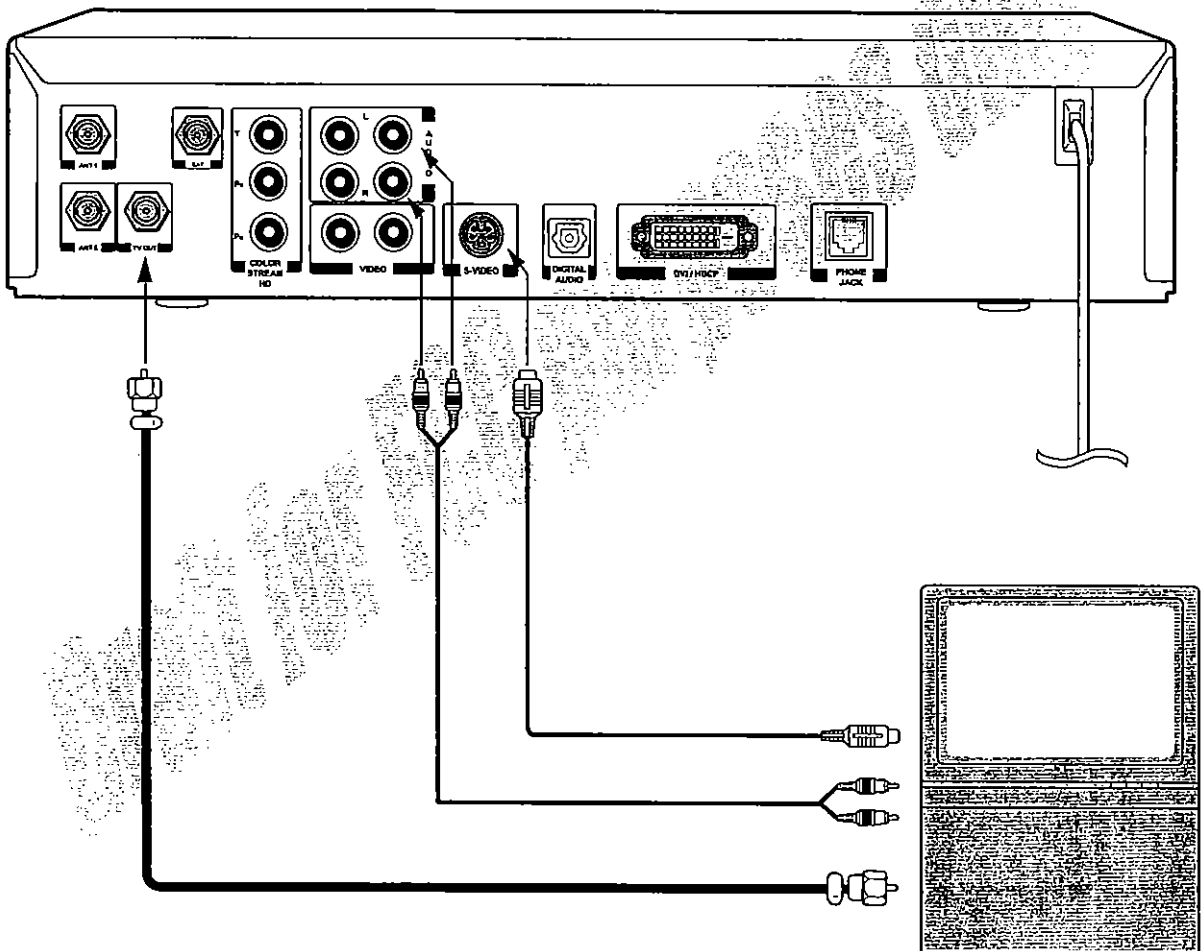
- Some TVs or monitors are equipped with component video inputs. Connecting to these inputs allows you to enjoy a higher quality picture.
- Actual labels for component video inputs may vary depending on the TV manufacturer. (ex. Y, R-Y, B-Y or Y, CB, CR)
- ColorStream = 480i on Y, PR, PB.
- ColorStream HD = 480i, 480p, 1080i; and sometimes 720p.



Connecting to a TV (continued)

Connect the receiver to your TV.

Connecting to an SDTV

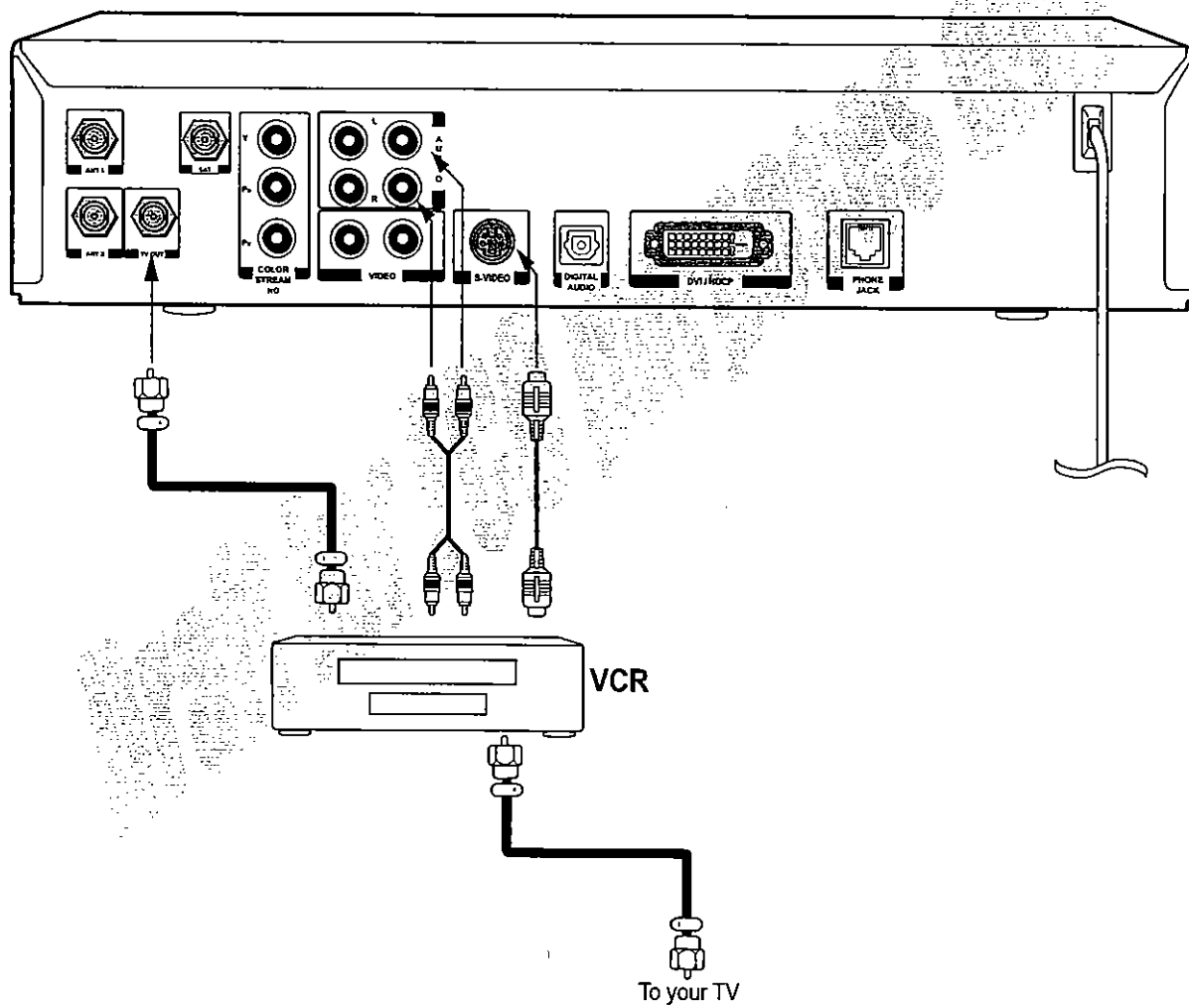


Notes

- Refer to the owner's manual of the connected TV as well.
- When you connect the receiver to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- If your television set has one audio input, connect the left and right audio outputs of the receiver to a Y cable adapter (not supplied) and then connect to your TV.
- Connect the receiver directly to your TV.

Connecting to Optional Equipment

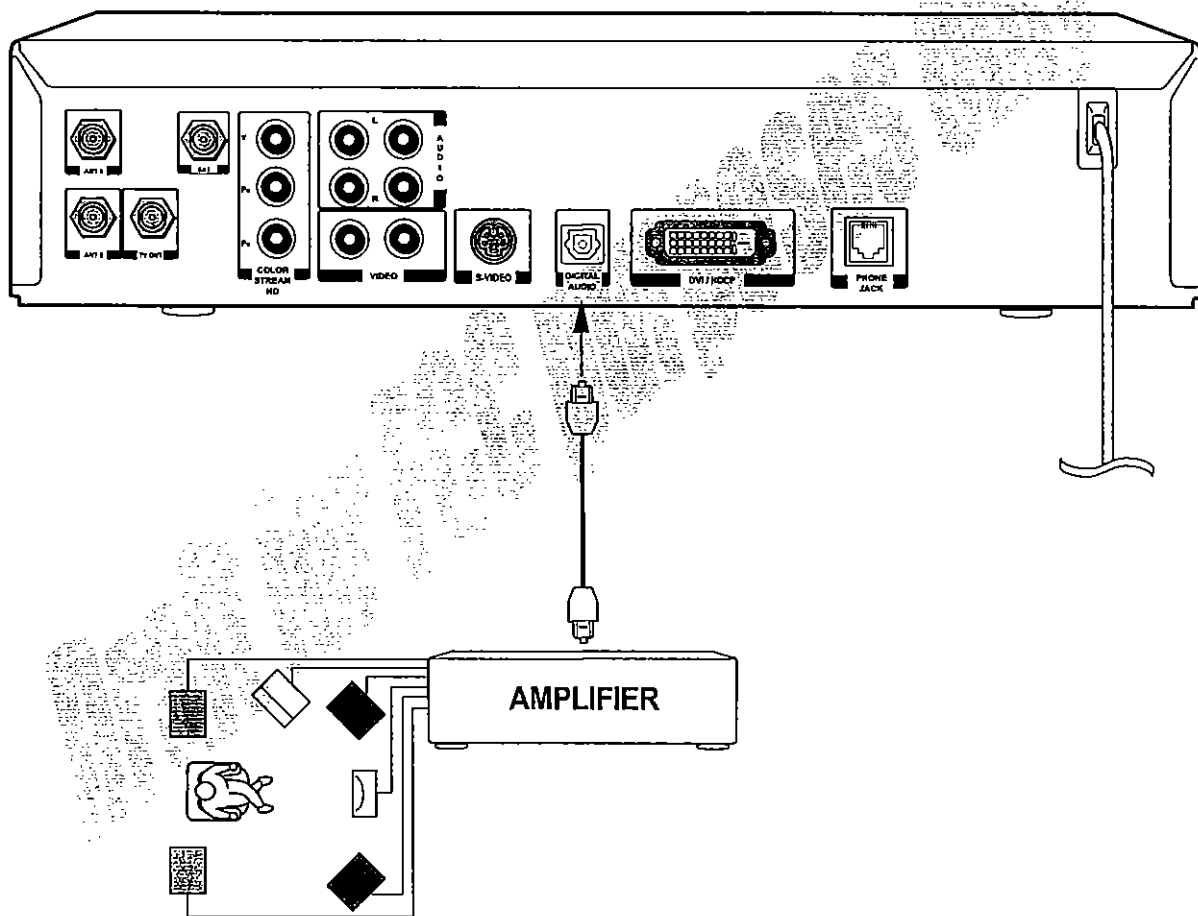
Connecting to a VCR



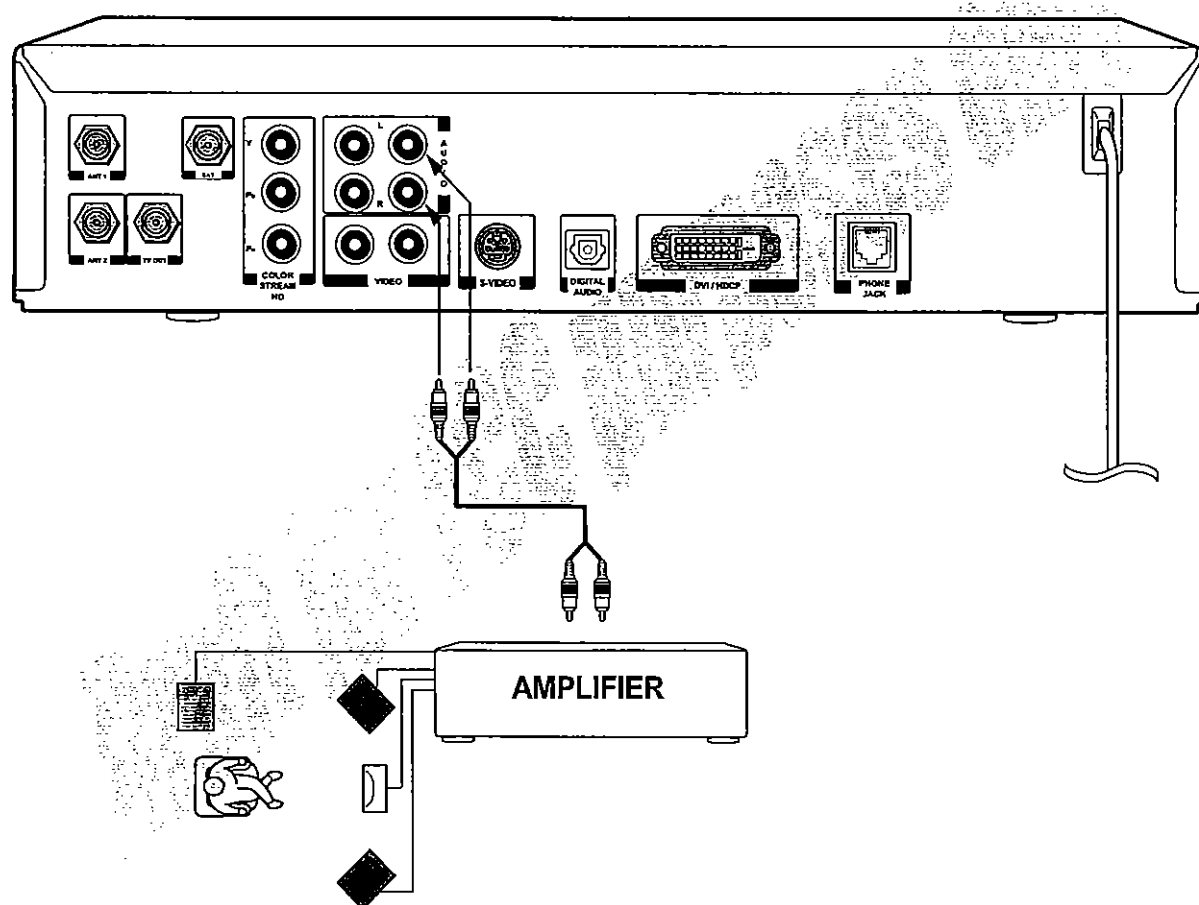
Connections

Connecting to Optional Equipment (continued)

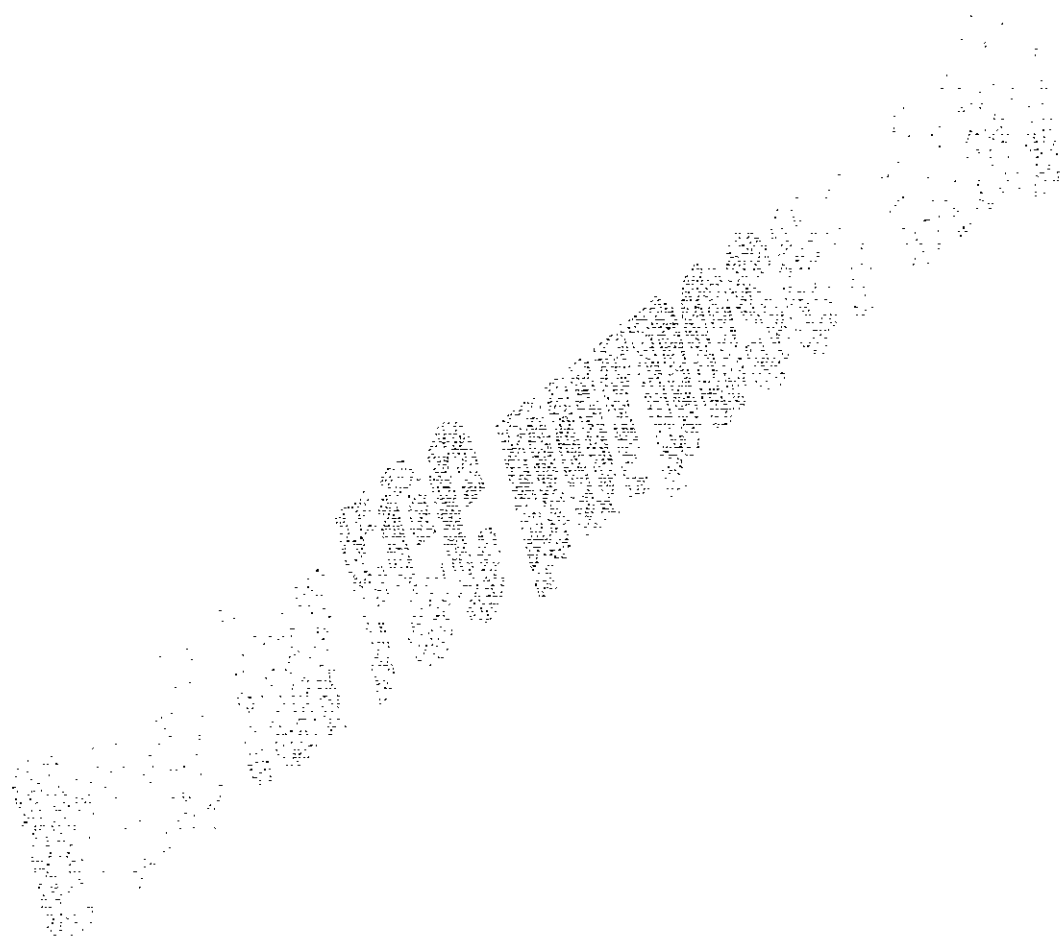
Connecting to an amplifier equipped with a Dolby Digital decoder



Connecting to an standard amplifier



Connections



Installation

- Installation Type
- Dish and Antenna/Cable Setup
- Dish Only Setup
- Antenna/Cable Only Setup
- Installation Complete
- Types of Programming



Installation

This section describes the installation process.

System Configuration Types

Preparations

- Install a DIRECTV® Satellite Dish Antenna, Terrestrial Antenna, or Cable Service.
- Turn on the TV.

1 Press the POWER button.



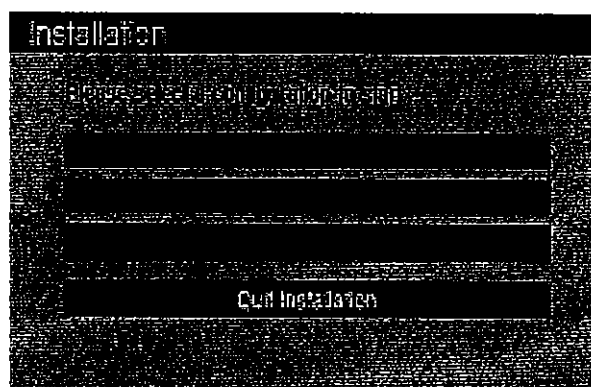
The receiver turns on and the Power On indicator illuminates.

When the receiver is turned on for the first time you will see the TOSHIBA logo, followed by an on-screen display of installation settings.

2 Press ▲ or ▼ to select the appropriate system configuration, and then press the SELECT key.

Refer to the following pages for the installation steps necessary for your system configuration.

- 29 Satellite (DIRECTV) and Antenna/Cable
- 34 Satellite (DIRECTV) Only
- 36 Local Antenna/Cable Only





DIRECTV® Satellite Dish Antenna and Antenna/Cable

Configuring your receiver to work with a DIRECTV Satellite Dish Antenna and Antenna/Cable.

Dish Setup Screen

Select the correct type of DIRECTV Satellite Dish Antenna so the DST-3100 receiver can calculate the correct coordinates for pointing the dish antenna.

Preparations

- Select *DIRECTV Satellite Dish Antenna and Antenna/Cable* from the Installation screen.

- 1 Press ▲ or ▼ to highlight the *Dish Type* field and then press ◀ or ▶ to highlight the type of dish antenna that is connected to the receiver.

Dish Types:

- **None:** Terrestrial antenna or cable signal only.
- **Round:** 18" round satellite dish antenna (no HD reception).
- **Oval 2:** Oval dish antenna with two LNBs.
- **Oval 3:** Oval dish antenna with three LNBs (recommended).
- **Auto:** This option should only be used if you cannot determine your dish type or location.

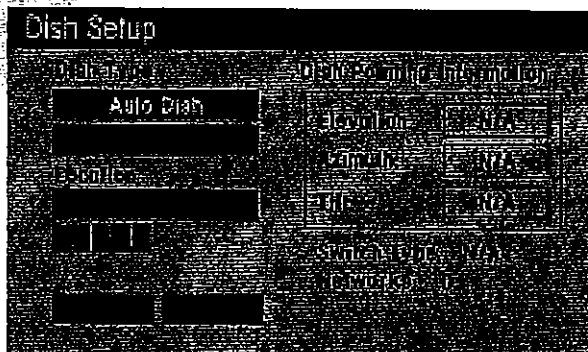
- 2 Press ▼ to highlight the *Location* field and then press ◀ or ▶ to select either **ZIP Code** or **Latitude/Longitude**.

Press ▼ to navigate to the first digit field and use the numbered keys on your remote control to enter your **ZIP Code** or **Latitude and Longitude**.

- 3 Press ▼ to highlight **Save** and then press **SELECT**.

Notes

- The *Auto Dish* option should only be used if you cannot determine your dish type or location. If you use this setting you must highlight *Start AutoConfig* and press **SELECT**.

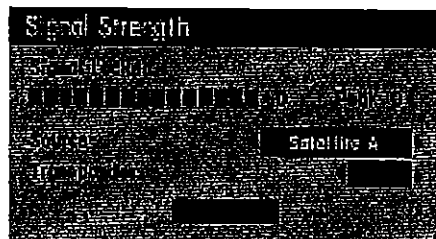


Signal Strength Screen

The *Signal Strength* screen displays a numerical strength (0 to 100) and a bar graph accompanied by an audible tone to indicate signal strength.

A strong signal is indicated by a high number, large amount of bar graph occupied, and a high-pitched, rapidly beeping tone.

From the *Source* field you can check the signals from each of the satellites you configured on the previous *Dish Setup* screen. (*Satellite A: Single; Satellite A, B: Oval 2; Satellite A, B, C: Oval 3*)



When you have received the strongest signal from several transponders on each of the satellites, you have completed the setup for digital satellite channels.

If you are not receiving a strong signal, the dish antenna pointing requires further fine-tuning.

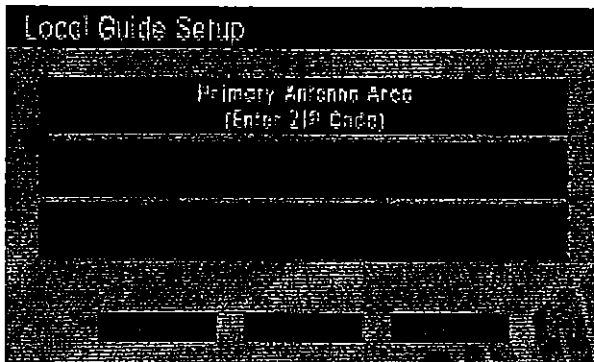
When you are satisfied with the signal strength, highlight **OK** and press **SELECT**.



DIRECTV® Satellite Dish Antenna and Antenna/Cable (continued)

Configuring your receiver to work with a DIRECTV Satellite Dish Antenna and Antenna/Cable.

Local Guide Setup Screen



If you connected a terrestrial antenna or local cable TV service to view local analog or digital channels, you need to configure the DST-3100 receiver to receive these broadcasts.

- 1** Press **▲** or **▼** to highlight **Primary Antenna Area** and then press **SELECT**.
The **Primary Area** specifies what terrestrial program information should appear in the Guide.

- 2** Press **▲** or **▼** to highlight to the **ZIP Code** field. Use the numbered keys on the remote to enter **your ZIP code**.
After you have entered the last digit of your zip code, the system will list the available providers in your area.

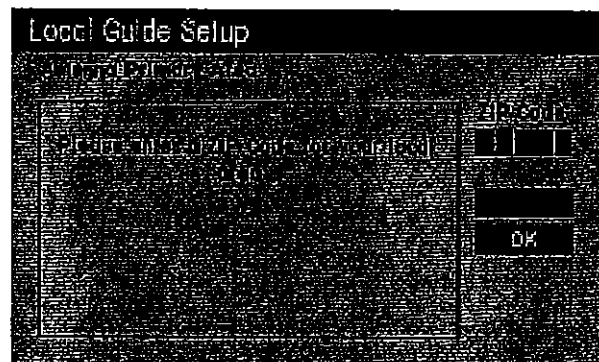
- 3** Press **◀**, then **▲** or **▼** to highlight **your provider**. Press **SELECT**.

- 4** Press **▲** or **▼** to navigate to **Secondary Antenna Area** and then press **SELECT**.
The **Secondary Area** specifies what additional terrestrial program information should appear in the Guide.

Follow steps 2–3 above.

- 5** Press **▲** or **▼** to highlight **Cable Provider Area** and then press **SELECT**.
The **Cable Provider** specifies what cable program information should appear in the on-screen program guide.

Follow steps 2–3 above.



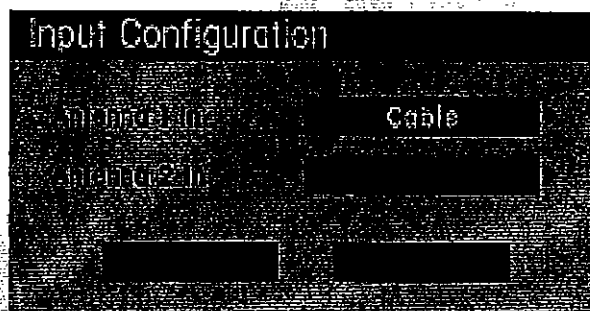
Notes

- If you do not have cable service connected to the DST-3100, it is not necessary to complete step 5.

Input Configuration Screen

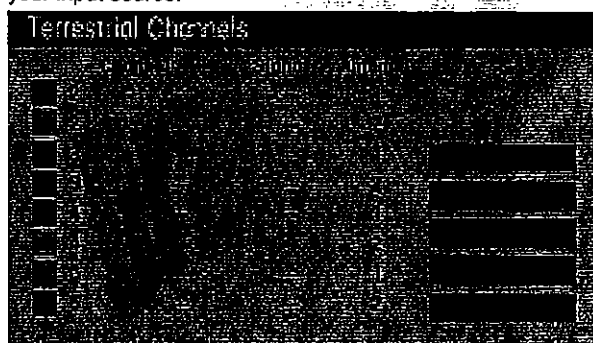
Use the *Input Configuration* screen to configure the source types that are connected to the ANT1 and ANT2 jacks.

- 1 Press ▲ or ▼ to navigate to the appropriate fields.
- 2 Press ◀ or ▶ to select the type of inputs you connected to the DST-3100.
- 3 Press ▲ or ▼ to highlight the **Save** and then press **SELECT**.



Terrestrial Channel Screen

Now that you have configured the inputs, the *Terrestrial Channels* screen allows you to select the available channels for your input source.



- 1 Press ▲ or ▼ to highlight **Scan** and then press **SELECT**.

The receiver will scan for available channels from the input source(s) that you configured in the *Input Configuration* screen.

When the scan is complete, the screen will list the channels and which antenna input they are coming from (ANT1 or ANT2).

- 2 Press ◀ or ▶ to highlight the desired channel boxes (on the left side of the screen). Press **SELECT** to add the highlighted channel. A blue box with a checkmark indicates the channel has been added.

To remove a selected channel, highlight the desired blue box and press **SELECT**. The checkmark will be removed and the box will be gray.

- 3 After you have selected all desired channels, press ◀ or ▶ to highlight **Save** and then press **SELECT**.

Notes

- If you have not configured any inputs, the message below will be displayed. To configure the inputs, select **Inputs** on the *Terrestrial Channels* screen.



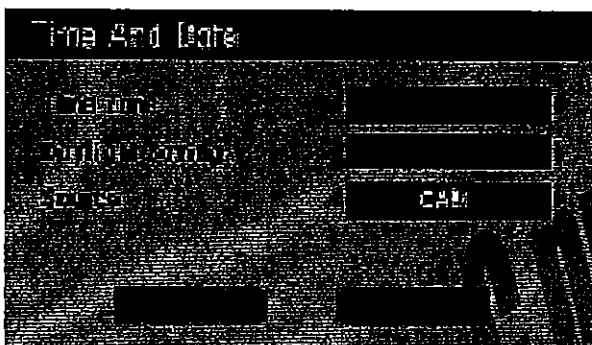


DIRECTV® Satellite Dish Antenna and Antenna/Cable (continued)

Configuring your receiver to work with a DIRECTV Satellite Dish Antenna and Antenna/Cable.

Time And Date Settings Screen

The Time And Date screen's *Source* field will default to **CAM**. This means that your receiver will get its time and date settings from the satellite signal. If you need to change these settings, follow the steps below.



- 1 Press ▲ or ▼ to highlight the *Source* field and then press ◀ or ▶ to select **Manual**.
- 2 Press ▲ or ▼ to highlight the *Time Zone* field and then press ◀ or ▶ to select your time zone.
- 3 Press ▼ to highlight the *Daylight Saving* field and then press ◀ or ▶ to select **ON** or **OFF**.
- 4 Press ▼ to highlight the *Save* button and then press **SELECT**.



DIRECTV® Satellite Dish Antenna Only

Configuring your receiver to work with a DIRECTV Satellite Dish Antenna.

Dish Setup Screen

You must select the correct type of DIRECTV Satellite Dish Antenna so the DST-3100 receiver can calculate the correct coordinates for pointing the dish antenna.

Preparations

- Select *Satellite (DIRECTV)* and *Antenna/Cable* from the Installation screen (see page 28).

- 1 Press **▲** or **▼** to highlight the *Dish Type* field and then press **◀** or **▶** to highlight the type of dish antenna connected to the receiver.

Dish Types:

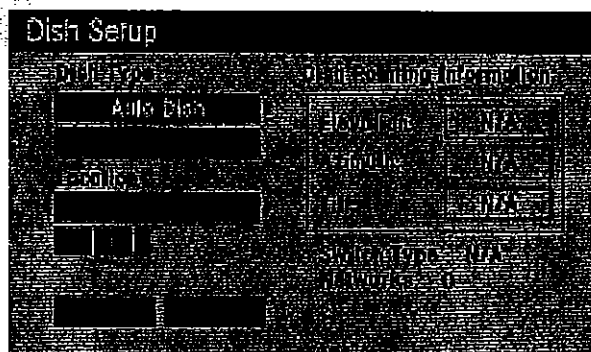
- **None:** Terrestrial antenna or cable signal only.
- **Round:** 18" round satellite dish antenna (no HD reception).
- **Oval 2:** Oval dish antenna with two LNBS.
- **Oval 3:** Oval dish antenna with three LNBS (recommended).
- **Auto:** Use this option only if you cannot determine your dish type or location.

- 2 Press **▼** to highlight the *Location* field and then press **◀** or **▶** to select either **ZIP Code** or **Latitude/Longitude**.
Press **▼** to highlight the first digit field and use the numbered buttons on your remote control to enter your **ZIP Code** or **Latitude and Longitude**.

- 3 Press **▼** to highlight **Save** and then press **SELECT**.

Notes

- Use the *Auto Dish* option only if you can not determine your dish type or location. If you use this setting you must highlight *Start AutoConfig* and press **SELECT**.

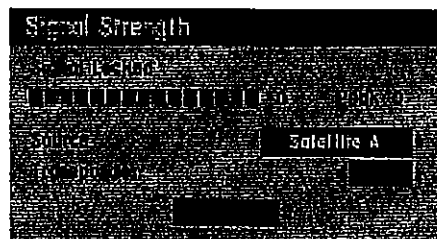


Signal Strength Screen

The *Signal Strength* screen displays a numerical strength (0 to 100) and a bar graph accompanied by an audible tone to indicate signal strength.

A strong signal is indicated by a high number, large amount of bar graph occupied, and a high-pitched, rapidly beeping tone.

From the *Source* field you can check the signals from each of the satellites you configured on the previous *Dish Setup* screen. (Satellite A: Single; Satellite A, B: Oval 2; Satellite A, B, C: Oval 3)



When you have received the strongest signal from several transponders on each of the satellites, you have completed the setup for digital satellite channels.

If you are not receiving a strong signal, the dish antenna pointing requires further fine-tuning.

When you are satisfied with the signal strength, highlight **OK** and press **SELECT**.



DIRECTV® Satellite Dish Antenna Only (continued)

Configuring your receiver to work with a DIRECTV Satellite Dish Antenna.

Local Guide Setup Screen



If you connected a terrestrial antenna or local cable TV service to view local analog or digital channels, you need to configure the DST-3100 receiver to receive these broadcasts.

- 1** Press **▲** or **▼** to highlight **Primary Antenna Area** and then press **SELECT**.

The **Primary Area** specifies which terrestrial program information should appear in the Guide.

- 2** Press **▲** or **▼** to highlight the **ZIP Code** field. Use the numbered keys on the remote to enter your **ZIP code**.

After you have entered the last digit of your zip code, the system will list the available providers in your area.

- 3** Press **◀**, then **▲** or **▼** to highlight your provider. Press **SELECT**.

- 4** Press **▲** or **▼** to highlight **Secondary Antenna Area** and then press **SELECT**.

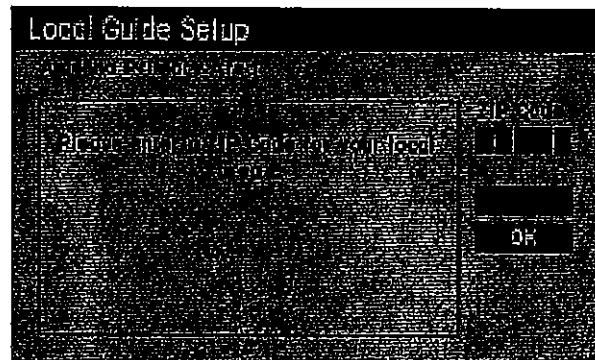
The **Secondary Antenna Area** specifies which additional terrestrial program information should appear in the Guide.

Follow steps 2-3 above.

- 5** Press **▲** or **▼** to highlight **Cable Provider Area** and then press **SELECT**.

The **Cable Provider Area** specifies which cable program information should appear in the on-screen program guide.

Follow steps 2-3 above.

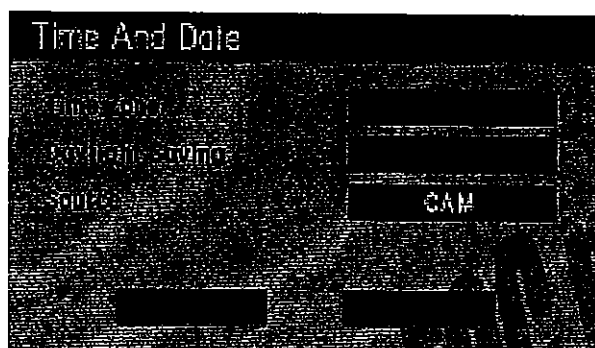


Notes

- If you do not have cable TV service connected to the DST-3100, it is not necessary to complete step 5.

Time And Date Settings Screen

The Time And Date screen's *Source* field will default to **CAM**. This means that your receiver will get its time and date settings from the satellite signal. To change these settings, follow the steps below.



- 1 Press ▲ or ▼ to highlight the *Source* field and then press ◀ or ▶ to select **Manual**.
- 2 Press ▲ or ▼ highlight the *Time Zone* field and then press ◀ or ▶ to select your time zone.
- 3 Press ▼ to highlight the *Daylight Saving* field and then press ◀ or ▶ to select **ON** or **OFF**.
- 4 Press ▼ to highlight the *Save* button and then press **SELECT**.



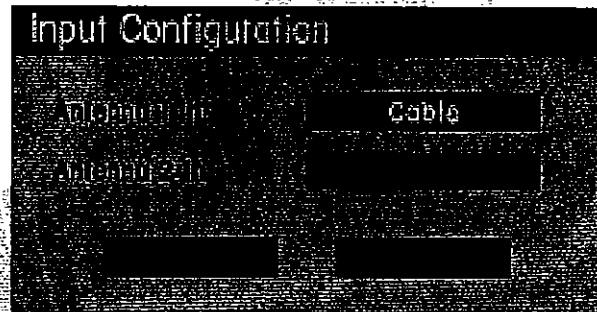
Local Antenna/Cable Only

Configuring your receiver to work with an Antenna and/or Cable service.

Input Configuration Screen

Use the *Input Configuration* screen to configure the source type that is connected to the ANT1 and ANT2 jacks.

- 1 Press ◀ or ▶ to navigate to the appropriate fields.
- 2 Press ◀ or ▶ to select the type of inputs you connected to the DST-3100.
- 3 Press ▲ or ▼ to navigate to the **Save** button and press **SELECT**.



Terrestrial Channels Screen

After configuring the inputs (above), use the *Terrestrial Channels* screen to select the available channels for your inputs.



- 1 Press ▲ or ▼ to navigate to the **Scan** button.
The receiver will scan for available channels from the input source(s) that you configured on the previous screen.
Once the scan is complete the screen will list the channels and what antenna input they are coming from (ANT1 or ANT2).

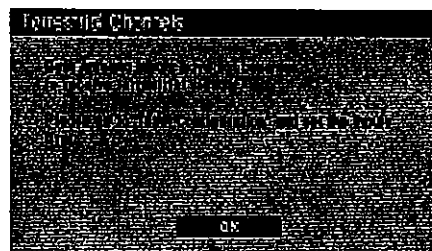
- 2 Press ◀ or ▶ to navigate to the boxes on the far left side of the screen. Press **SELECT** to add the highlighted channel. A blue box with a checkmark indicates the channel has been added.

To remove a selected channel, navigate to the blue box and press **SELECT**. The checkmark will be removed and the box will be gray.

- 3 After you have selected all the desired channels, press ◀ or ▶ to navigate to the **Save** button and then press **SELECT**.

Notes

- If you do not have any inputs configured the message below will be displayed. You can select the **Inputs** button on the *Terrestrial Channels* screen to reconfigure the inputs.



Time And Date Settings Screen

You must set the correct time and date so the DST-3100 receives the correct programming information. Use the Time And Date screen to set your time zone and whether or not you observe Daylight Savings Time.



- 1 Press ▲ or ▼ to highlight the *Time Zone* field and then press ◀ or ▶ to select your time zone.
- 2 Press ▼ to highlight the *Daylight Savings* field and then press ◀ or ▶ to select **ON** or **OFF**.
- 3 Press ▼ to highlight the *Date* field and use the numbered buttons to enter the date in MM/DD/YY format.
- 4 Press ▼ to highlight the *Time* field and use the numbered buttons to enter the current time in HH/MM format.
- 5 Press ▼ to highlight the *Save* button and then press **SELECT**.



Installation Complete

Your receiver is now configured.

Installation Screen

The installation and testing of the satellite dish antenna and/or terrestrial inputs is now complete.

The Installation screen displays a summary of all the information and settings you have configured.

You are ready to enjoy your system!

Types of Programming

This section explains the different types of programming available based on system connections and DIRECTV® Programming subscription.

With a satellite dish connected:

TYPE OF PROGRAMMING

DIRECTV programming

Local channels from DIRECTV

Digital (ATSC) channels

Analog (NTSC) channels

GUIDE INFORMATION

Network logo; channel numbers 100 to 9999

Network logo or call letters; traditional channel numbers

Single- or double-digit channel number followed by hyphen and sub-channel number; program name and description if channel is supported in local ZIP code area

Network logo or call letters; traditional single- or double-digit channel numbers; program name and description if channel is supported in local ZIP code area

With a terrestrial antenna or cable connected (no satellite dish):

TYPE OF PROGRAMMING

Digital (ATSC) channels

Analog (NTSC) channels

GUIDE INFORMATION

Single- or double-digit channel number followed by hyphen and sub-channel number; program name and description if channel is supported in local ZIP code area; or program name will say *Regular Schedule*

Network logo or call letters; traditional single- or double-digit channel numbers; program name will say *Regular Schedule*

ADVANCED PROGRAM GUIDE™

Customizing the guides of your receiver

- Program Guide
- Advanced Grid Guide
- Basic Grid Guide
- Surf Guide
- Banner Guide
- General Guide Features

ADVANCED PROGRAM GUIDE™

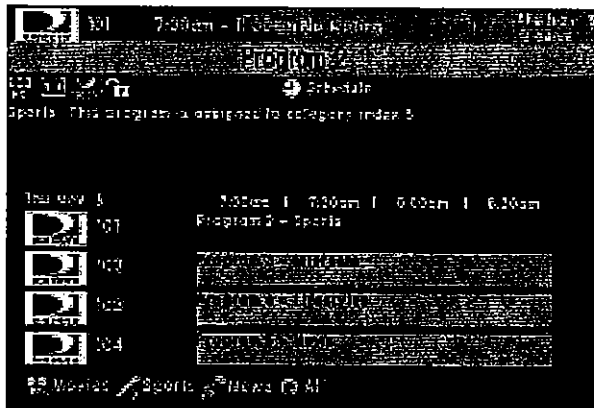
Your DST-3100 receiver has the following ADVANCED PROGRAM GUIDE styles to make finding programs easier: *Advanced Grid Guide*, *Basic Grid Guide*, *Surf Guide*, and *Banner Guide*.

Each guide can be customized to display a smaller grouping of channels (customized in your profile's Channel Block screen), or you can reduce the displayed listing by specifying a *Filter* (described later in this section).

Note: Most AADVANCED PROGRAM GUIDE features are only available with a satellite connection.

Press **GUIDE** to display the *Advanced Grid Guide* screen. Use the remote control's navigation arrows (▲/▼/◀/▶) to navigate the guides. Press **ACTION** + ◀ or ▶ to scroll through the guide entries one page at a time. Press **INFO** while a title is highlighted to display the *Program Details* screen.

Advanced Grid Guide

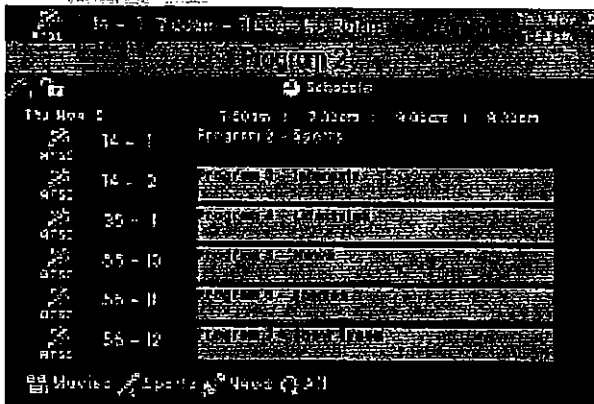


The *Advanced Grid Guide* displays two hours of programming information and four lines of channel information.

When your desired program is highlighted, press **SELECT** to tune to the channel.

To jump through the listings to a specific channel, directly enter the channel number (using the numbered buttons on your remote control).

Basic Grid Guide



The *Basic Grid Guide* displays two hours of programming information and six lines of channel information.

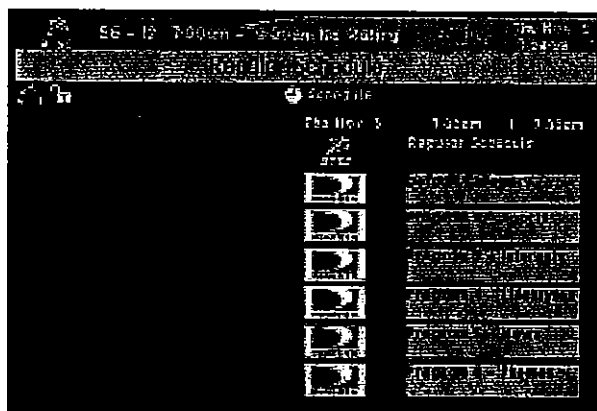
When your desired program is highlighted, press **SELECT** to tune to the channel.

To jump through the listings to a specific channel, directly enter the channel number (using the numbered buttons on your remote control).

Keys available in the different ADVANCED PROGRAM GUIDE™ styles:

- **GUIDE:** Cycles through the different guide styles.
- **ACTION + INFO:** Cycles through the different banner styles (off, short, detailed).
- **▲, ▼, ◀, and ▶:** Navigate inside the guide.
- **ACTION + ◀ or ▶:** Scrolls through the guide entries one page at a time.
- **INFO** while highlighting any **program:** Displays the *Program Details screen*.
- **ACTION + JUMP (HOME):** Scrolls to current time slot.
- **SELECT:** Tunes to the highlighted channel.

Surf Guide



The *Surf Guide* displays one hour of programming information along the right side of your screen. When first displayed, the *Surf Guide* includes the *Short Information banner*; however, you can use **INFO** to cycle through the different banners or turn it off.

This guide is useful because you can "surf" the guide while still viewing most of the TV program in the background.

Banner Guide



The *Banner Guide* displays two hours of programming information along the bottom of your screen.

This guide is useful because you can view the guide while still viewing most of the TV program.

When your desired program is highlighted, press **SELECT** to tune to the channel.

To jump through the listings to a specific channel, directly enter the channel number (using the numbered buttons on your remote control).

ADVANCED PROGRAM GUIDE™ General Features

The various program guides have several common features, as described below.

Channel Banners

When you select a channel while you are watching TV, a *Channel Banner* will display at the top of the screen (see illustration below).



You also can display a channel banner by pressing **SELECT** on the remote control or receiver front panel while tuned to a program.

Informational Icons:

	Video is High-Definition format.		Source of video is DIRECTV® Satellite Dish Antenna.
	Audio is Dolby Digital.		Source of video is antenna ATSC (replaces channel logo in banner).
	Taping is permitted.		Source of video is antenna NTSC (replaces channel logo in banner).
	Taping is not permitted.		System is locked.
	Video aspect ratio is 16:9.		System is unlocked.
	Video aspect ratio is 4:3.		System is temporarily unlocked.
	Video aspect ratio is 4:3 and has been Letterboxed (black bars on top and bottom of screen).		

Filters

The filtering icons (*Movies*, *Sports*, *News*, and *Advanced: Movie/com...*) are found immediately below the guide and allow you to quickly filter the guide by program type. To select a filter, press **JUMP**, highlight the desired filter icon, and then press **SELECT**.

Selecting the **All** icon removes the filters and displays all programming types in the guide.

Selectable Icons (press **JUMP** twice):



Pay Per View (PPV). Highlight and press **SELECT** to purchase.



Scheduled PPV program. Highlight and press **SELECT** to cancel the schedule (in guide only).



Scheduler. Highlight and press **SELECT** to schedule a program reminder.



Closed Captions enabled and available.



Closed Captions available, but disabled. Highlight and press **SELECT** to enable.



New messages. Highlight and press **SELECT** to view.



Second Audio Program. Highlight and press **SELECT** to choose alternate audio languages.

Program Details Screen

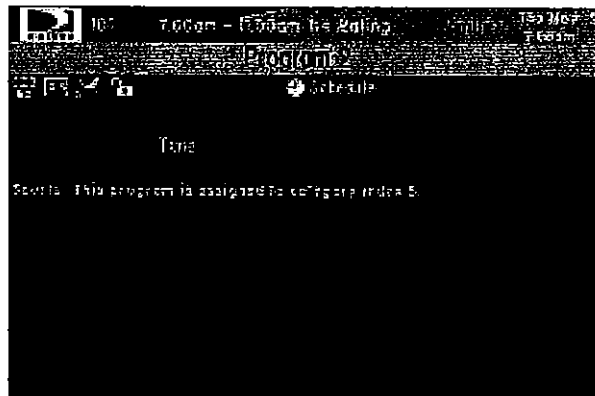
To obtain more information about a particular program while a guide or banner is displayed, highlight the program and press **INFO** to display the *Program Details* screen.

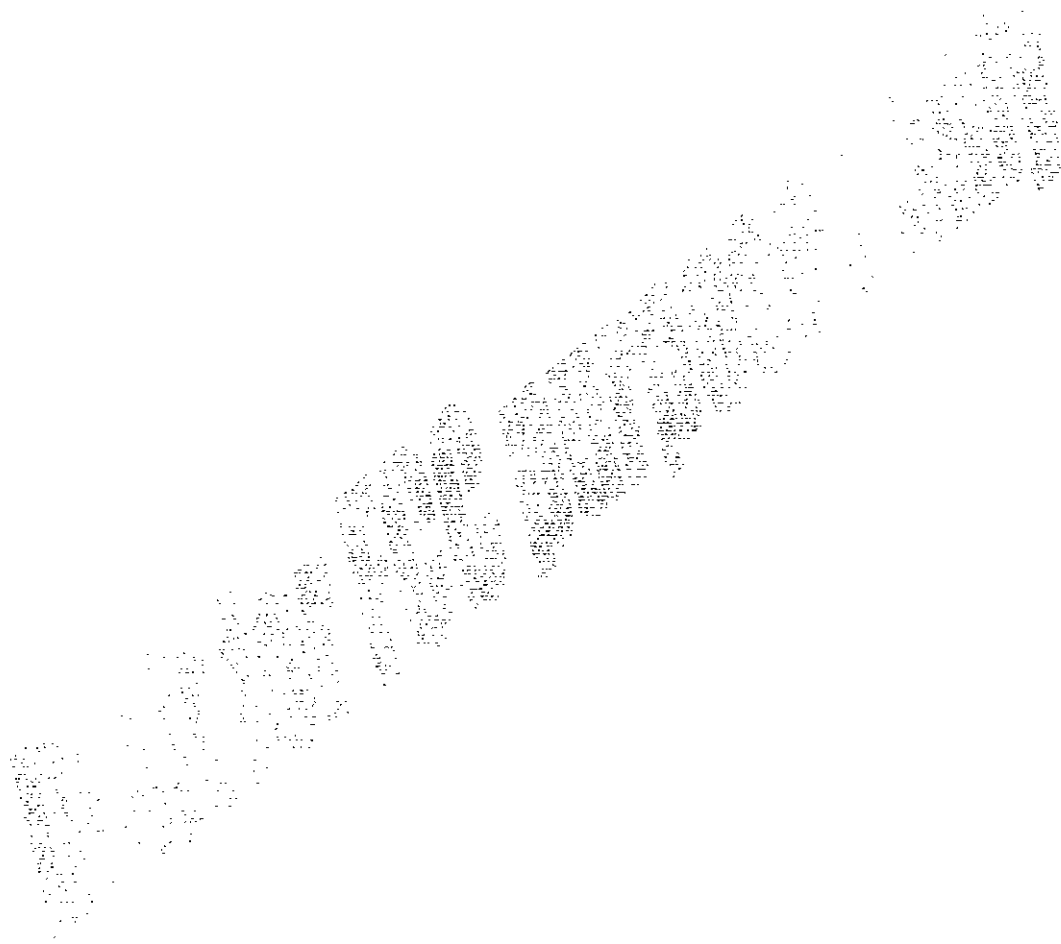
If the program details are more than the screen allows, press **▲** or **▼** to scroll the screen.

Tune: Highlight **Tune** and press **SELECT** to tune to the program.

Showings: Highlight **Showings** and press **SELECT** to see a list of additional times for this program.

Cancel: Highlight **Cancel** and press **SELECT** to return to the guide.





Menu System

The Menu System puts you in control of the receiver.

● Overview