



Satellite Receiver
Owner's Guide

HUGHES
NETWORK SYSTEMS
Digital Satellite System



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




This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of significant magnitude to constitute a risk of electric shock to persons.




This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

 **WARNING**


To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

 **Caution**

Do not place electronic or other components or objects on top of the equipment. Blocked air vents prevent adequate ventilation of the equipment's internal components, which may in turn adversely affect the performance of or damage the equipment and other components.

 **Caution**

Any changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

 **Caution**

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For programming subscriptions and information, contact USSB® at 1-800-204-USSB (8772) and DIRECTV® at 1-800-DIRECTV (347-3288).

For questions or problems relating to your system, the Customer Care Center is available 24 hours a day, seven days a week at 1-800-274-8995. To ensure quick and efficient service, you will need to provide your system model number and receiver serial number to the Customer Care technician. You will find these numbers on the back of the receiver. For future reference, write your equipment and access card numbers in the spaces provided below.

System Model Number _____

Receiver Model Number _____

Receiver Serial Number _____

Access Card Number _____




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IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

The following information is provided for your own safety and protection. Please read this section carefully and familiarize yourself with all warnings, cautions, and instructions. Then, keep this Guide in a safe, convenient place for your easy reference.

Warnings, cautions, and notes, defined as follows, are used throughout this Guide to help you become familiar with possible safety or equipment hazards.

 **WARNING**

Indicates a procedure that may result in personal injury caused by electric shock.

 **WARNING**

Indicates a procedure that may result in personal injury if not strictly observed.

 **Caution**

Indicates a procedure that may result in equipment damage if not strictly observed.

Note

Presents additional information or interesting sidelights.

 **WARNING**

When using electric products, basic precautions and instructions should always be followed, including:

- proper polarity—see ‘Polarity’.
 - cable TV installation instructions—see ‘Attention: Cable TV installer’.
 - satellite dish installation instructions—see ‘Attention: Satellite Dish installer’.
 - power source information—see ‘Power sources’.
 - outlet capacity—see ‘Overloading’.
 - electrical connections—see ‘Power cord protection’.
 - airflow requirements—see ‘Ventilation’.
 - support equipment—see ‘Accessories’.
 - water hazards—see ‘Water and moisture’.
 - auxiliary equipment—see ‘Attachments’.
 - object and other liquid hazards—see ‘Object and liquid entry’.
 - electrical storm hazards—see ‘Lightning’.
 - cleaning instructions—see ‘Cleaning’.
 - equipment malfunction information—see ‘Service’.
-
-

Instructions

- Please read all safety and operating instructions carefully before you install and operate this equipment.
- Please keep these safety and operating instructions in a safe place for future reference.
- Please observe and adhere to all warnings on the equipment and in the operating instructions.
- Please follow all operating and use instructions.

Polarity

This product is equipped with a polarized AC plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you cannot insert the plug fully into the outlet, try reversing the plug. If the plug still doesn't fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the plug by forcing it in.

To prevent electric shock, do not use this polarized plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted without blade exposure. If you need an extension cord, use a polarized cord.

Attention: Cable TV installer

Article 820-40 of the National Electrical Code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Attention: Satellite Dish installer

Article 810 and in particular Article 810-15 of the National Electrical Code describes proper installation and grounding of television receiving equipment. Article 820-40 of the National Electrical Code (published by the National Fire Protection Agency in Batterymarch Park, Quincy, MA 02269) specifies that the satellite dish cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Power sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For products designed to operate from battery power, or other sources, refer to those specific operating instructions.

Overloading

Do not overload wall outlets, extension cords, or convenience receptacles beyond their capacity, because such overloading can create a significant fire or electric shock hazard. Overloaded outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are also dangerous. Periodically examine your electrical connections, and if you see any damage or deteriorating insulation, replace them or contact a qualified electrical technician for assistance.

Power cord protection

Any electrical power supply cords should be placed out of the way of regular household traffic so that they are not walked on, rolled over, or pinched by items placed on or against them, paying particular attention to cords at plugs, and the point where they exit from the equipment.

Ventilation

Slots and openings in the box are provided for ventilation to ensure reliable operation of the equipment and to prevent it from overheating. **These openings should never be blocked or covered:**

- Do not store this Guide on top of the equipment, or otherwise cover the equipment with a cloth or other material.
- Do not place the equipment on a bed, sofa, rug, or other similar surface.
- Never place the equipment near or over a radiator, heat register, stove, or other product (including amplifiers) that produce heat, or where it is exposed to direct sunlight.
- Never place the equipment in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided or the product manufacturer's instructions have been followed.

Accessories

Do not place the equipment on an unstable cart, stand, tripod, bracket, table, or shelf. The equipment may fall, causing serious injury to a child or adult, as well as serious damage to the equipment. Use this equipment only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the equipment. Any mounting of the equipment should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

Any equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

Wall or ceiling mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

Water and moisture

Do not use this equipment near water—for example, near a bathtub, washbowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool or other water source.

Attachments

Do not connect the equipment to components other than those recommended by the equipment manufacturer because they may create hazards.

Object and liquid entry

Never push objects of any kind into this equipment through the ventilation slots or other openings because they may touch dangerous voltage points or “short-out” parts that could result in a fire or electric shock. Never spill liquid of any kind on the equipment.

Lightning

For added protection of this equipment during an electrical storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system and the telephone line. This will prevent damage to the equipment due to lightning and power line surges.

Note

A prolonged telephone disconnection may result in termination of PPV service by your service provider. Be advised that you may have to contact your service provider to request that service be restored.

Cleaning

Unplug the equipment from the wall outlet before cleaning or polishing it. Do not use liquid or aerosol cleaners; use a slightly damp cloth, and use it for cleaning only the equipment’s exterior.

Satellite antennas

The following precautions regarding installing and grounding antennas is provided for your safety and information.

Installing your antenna

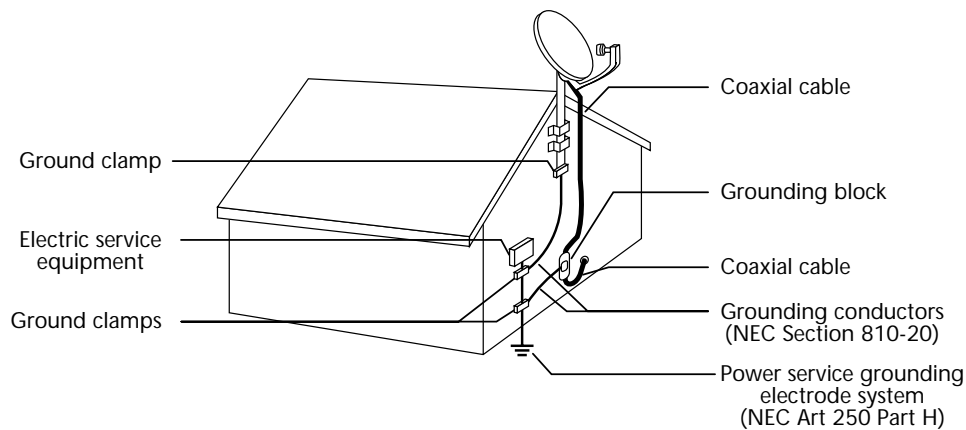
Because of the potentially hazardous nature of the work, HNS recommends that you hire a professional antenna installer. The limited warranty does not cover installation by the owner. (For complete warranty information, please refer to the warranty card.) HNS also recommends that the outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits.



WARNING

When installing an outdoor antenna system, use extreme care to avoid touching such power lines or circuits, because such contact might be fatal.

Because the outdoor antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, NFPA No. 70 1992, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



Additional grounding information

The outdoor antenna used to receive satellite signals and the cable used to connect the antenna to the indoor receiving unit are required to comply with local installation codes and the appropriate sections of the National Electrical Code (NEC). These codes require proper grounding of the metal structure of the outdoor antenna and grounding of the connecting cable at a point where it enters the house (or other building). If you are having your system professionally installed, the installer must observe installation codes. The instruction manual provided with the satellite antenna contains instructions for ensuring that the installation complies with the National Electrical Code (NEC). Contact your local inspection authorities to see if additional local installation codes apply.

Service

Do not attempt to service this equipment yourself, because opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing requirements to qualified, experienced technicians.

When service is required

Unplug the product from the wall outlet and refer servicing to qualified, experienced technicians under the following conditions:

- When the power cord or plug is damaged or frayed.
- If liquid has been spilled, or objects have fallen into the equipment.
- If the equipment has been exposed to rain or water.
- If the equipment does not operate normally when you follow the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.
- If the equipment has been dropped or the cabinet has been damaged.
- When the equipment exhibits a distinct change in performance—this indicates a need for service.

Replacement parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety check

Upon completion of any service or repairs to the equipment, ask the service technician to perform all routine safety checks (as specified by the manufacturer) to determine that the equipment is in safe operating condition, and to provide written certification of such condition.

Federal Communications Commission (FCC) regulatory information

The HNS satellite receiver complies with both Part 15 and Part 68 of the FCC rules.

Part 15 compliance

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 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.

The user may find the following booklet, prepared by the Federal Communications Commission, helpful: "How to Identify and Resolve Radio and TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402.



Caution

This equipment has been certified to comply with the limits for a Class B digital device under Part 15 of FCC Rules. Only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this device. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

To meet FCC requirements, shielded cables are required to connect the device to a personal computer, peripheral, or other Class B certified device.

Part 68 compliance

1. The FCC has established Part 68 of the FCC Rules which permit this device to be directly connected to the telephone network. Standardized jacks are used for these connections. This equipment should not be used on party lines or coin lines.
2. If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until repair has been made. If this is not done, the telephone company may temporarily disconnect service.
3. The telephone company may make changes in its technical operations and procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes. You will be advised of your right to file a complaint with the FCC.

4. If the telephone company requests information on what equipment is connected to their lines, inform them of:
- the telephone number this unit is connected to.
 - the ringer equivalence number (REN). The number can be found on a label located on the bottom of this equipment. The REN is used to determine the quantity of devices you may connect to your telephone line and still have all of these devices ring when your telephone number is called. In most, but not all areas, the sum of the RENs of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices, you should contact your local telephone company to determine the maximum REN for your calling area.
 - the Universal Service Order Code (USOC) jack required. This device requires a USOC RJ11 jack.
 - the FCC Registration number. The number can be found on a label located on the bottom of this equipment.

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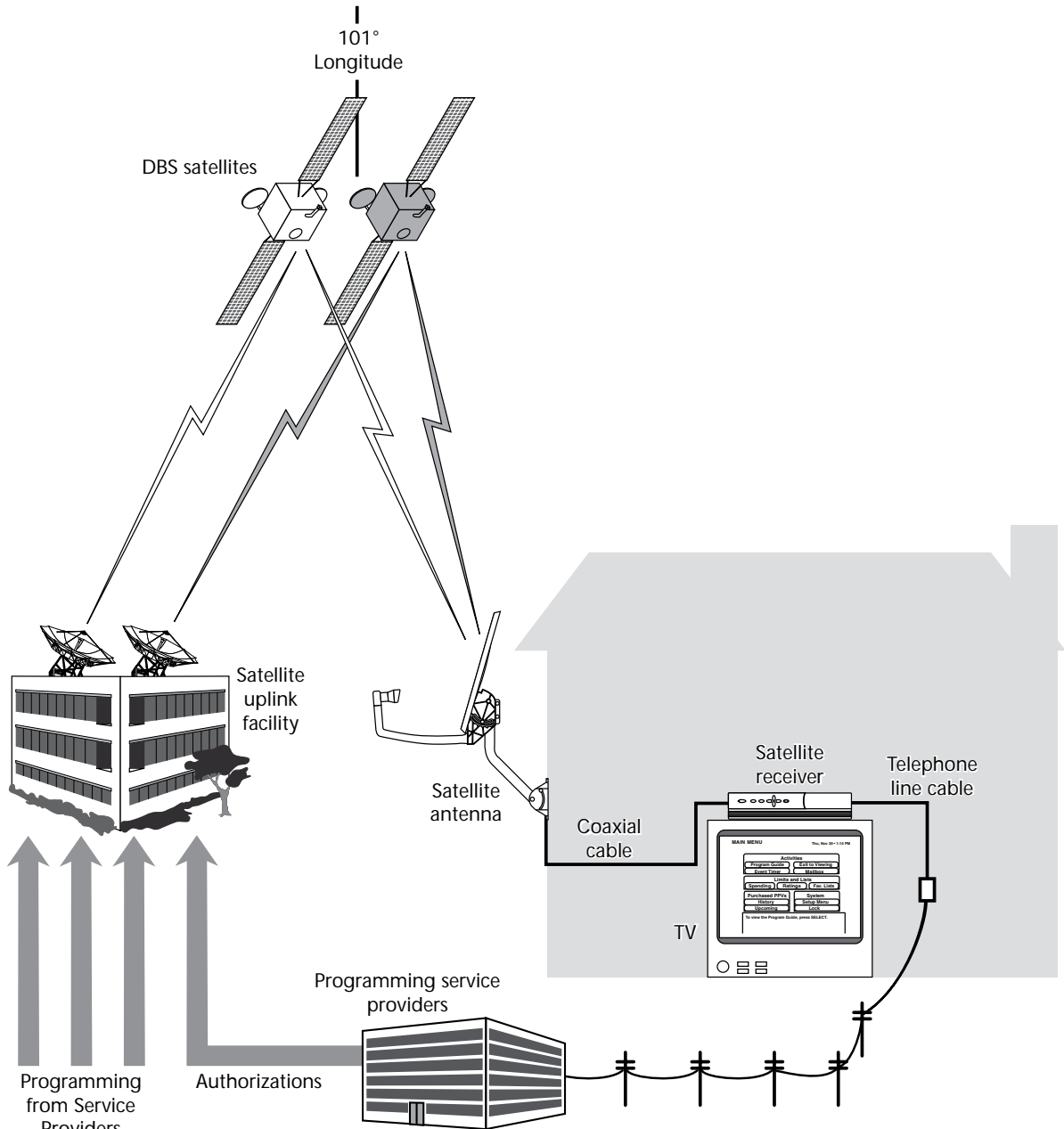
1

Congratulations! With your purchase of the Hughes Network Systems™ (HNS™) brand Digital Satellite System, you have acquired a system that provides the most advanced digital video and audio capabilities available today—pictures beamed from satellites into your home television set, providing entertainment and information as it's happening, where it's happening. The Hughes Network Systems brand Digital Satellite System offers that and much more—the capability to receive over 200 channels of video programming, data services, and CD quality audio.

1.1

Overview

The signal you receive in your living room originates at the broadcast centers of each programming service provider. From there the signals are sent to the satellite uplink facility, where they are transmitted to a satellite in space. A satellite transponder receives the signal and in turn beams it back to earth, where it is received by your satellite antenna. The signal goes from the antenna to the satellite receiver that is connected to your television set. The receiver converts the signals to video and audio formats that are compatible with the TV. The receiver also contains a data modem that periodically communicates billing information to the service provider via the telephone lines.

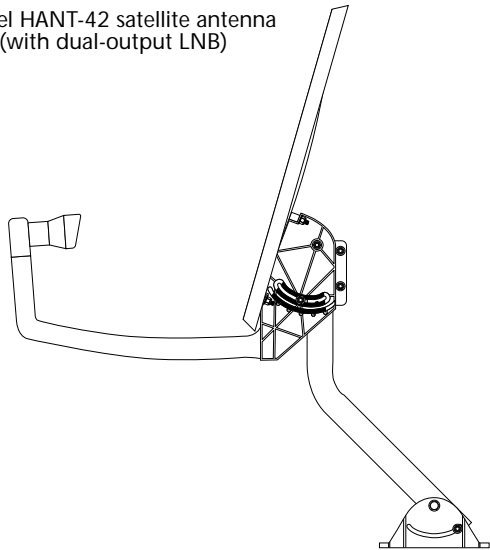


Satellite antenna

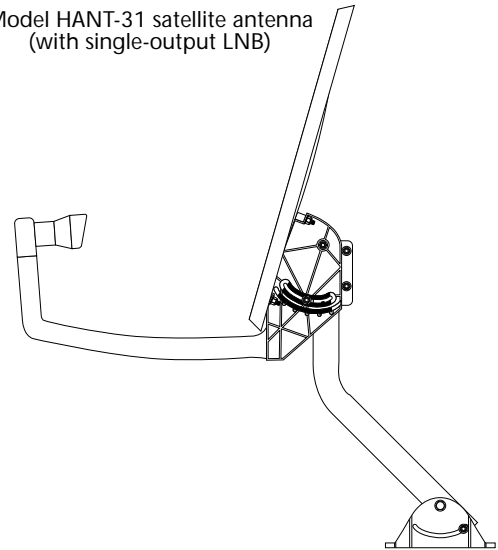
The HNS brand DSS system can come equipped with one of the following antennas:

- A model HANT-42 satellite antenna. The antenna has an 18-inch plastic circular reflector and comes equipped with a dual-output LNB.
- A model HANT-31 satellite antenna. The antenna has an 18-inch steel circular reflector and comes equipped with a single-output LNB.

Model HANT-42 satellite antenna
(with dual-output LNB)



Model HANT-31 satellite antenna
(with single-output LNB)



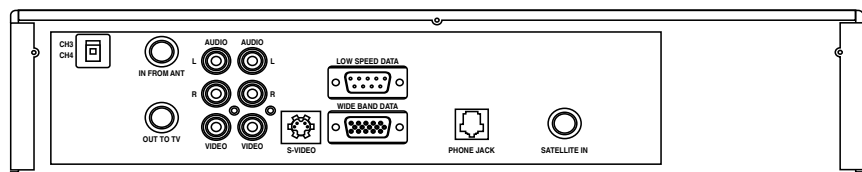
The companion **Satellite Antenna Installation Guide** provides information for installing the model HANT-31 and HANT-42 antennas.

Satellite receiver

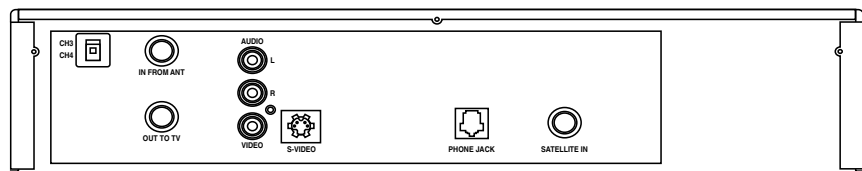
The HNS brand DSS system can come equipped with one of the following satellite receivers:

- A model HIRD-A3 satellite receiver that provides two sets of composite stereo audio/video (A/V) output jacks, an S-video output jack, a wide band data port and a low-speed data port.
- A model HIRD-A2 satellite receiver that provides one set of composite stereo A/V output jacks and an S-video output jack.

Model HIRD-A3
satellite receiver



Model HIRD-A2
satellite receiver

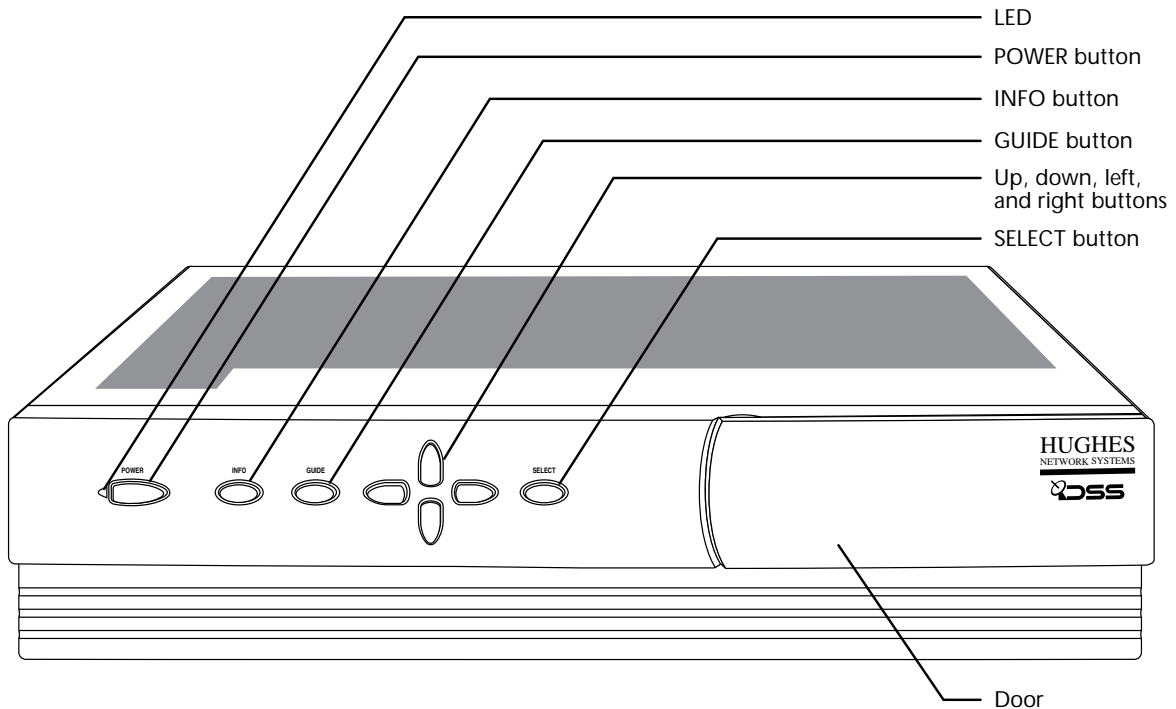


The receiver front panel has the following features:

- **POWER button/LED.** Use this button to switch the receiver into active or standby mode.

In active mode, you can view the DSS signal or the signal from your antenna/cable TV. The green LED will be lit in active mode.

In standby mode, the DSS signal is not available but the antenna/cable TV signals can be received from the OUT TO TV jack on the rear panel. The green LED will be off in standby mode.



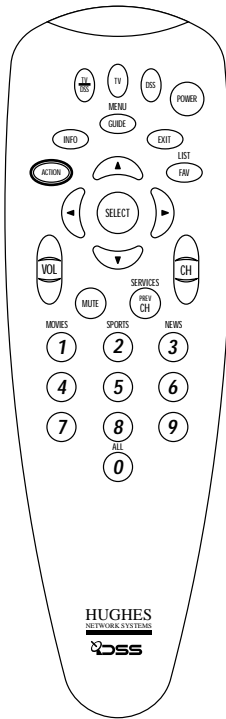
- **INFO, GUIDE, SELECT, and up, down, left, and right cursor buttons.** These buttons control the onscreen Program Guide and Main Menu.
- **A door that conceals the slot for the access card.** The access card (which comes already installed in the receiver) contains your personal authorization number. This number is automatically used for verification when you order new programming.

Remote control

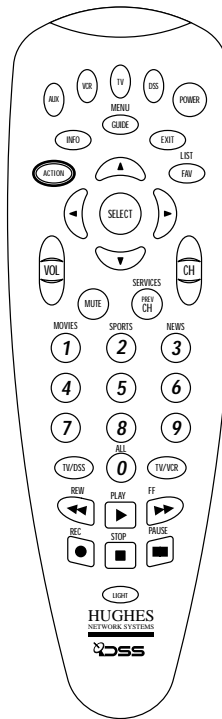
The remote control is available in the following models:

- Model HRMC-2. This unit can control the satellite receiver and most televisions.
- Model HRMC-3. This unit can control the satellite receiver and most TVs, VCRs, laser disc players, cable TV boxes, and audio amplifiers or tuners.

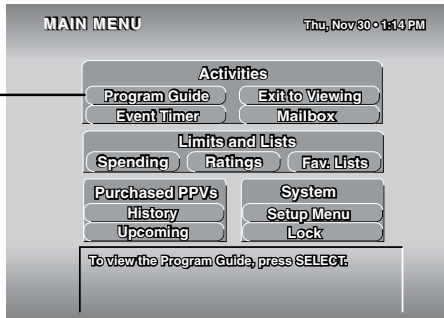
Model HRMC-2
remote control



Model HRMC-3
remote control



Program Guide and Main Menu



The **Main Menu** provides options for controlling various aspects of system operations.

The **Program Guide** provides options for controlling your programming selections.

Each screen features a button for the other, so you can easily alternate between them with one quick click to go back and forth from system operations to programming.




Other system features include:

- easy navigation throughout the system
- the ability to watch a program while scanning the OneLine Guide™ or LogoBelt™ to see what other programs are available
- PreSelect™ and Event Timing for unattended recording or an evening of hassle-free viewing
- flexibility in customizing your favorite channel lists and adjusting your screen setup to your own personal preferences
- controls that enable you to lock and unlock your system, and to set pay-per-view spending limits and program rating limits


The Hughes Network Systems brand Digital Satellite System combines the power and sophistication of the latest technology with an easy-to-use design that makes it the natural choice for both the technologically hip and the Sunday afternoon channel surfers. Once you learn the basics of the system, don't be afraid to explore its full potential.


1.2

Conventions used in this guide

Most of the instructions in this Guide describe the use of the remote control to perform system functions. To simplify these instructions, simple graphical drawings of the buttons on the remote are used in the instructions. For example, most instructions require you to press the Select button to complete a step; the instruction says “Press .

when the instruction says...

Press 

Press 

Press ▲, ▼, ◀, or ▶

Press 

do this—

Press the Info button

Press the Guide button

Press the appropriate directional button

Press the Power button

1.3

For a quick start...

This Owner's Guide is written primarily for first-time purchasers of a satellite television system. If you consider yourself knowledgeable about the technology and general operations, familiarize yourself with the safety instructions at the beginning of this Guide. Then see the Quick Reference Card for an outline of some major system features and functions. Once you become familiar with the system, you will no doubt find your own shortcuts for getting around.

Setting up

CHAPTER

2

This chapter provides step-by-step procedures for setting up the satellite receiver and connecting it to your television. This chapter also describes how to use the setup screens to position and point your satellite antenna dish. (For detailed antenna installation instructions, see the ***Satellite Antenna Installation Guide***.)

2.1

Installing the satellite receiver

When you get your receiver home, unpack it carefully.

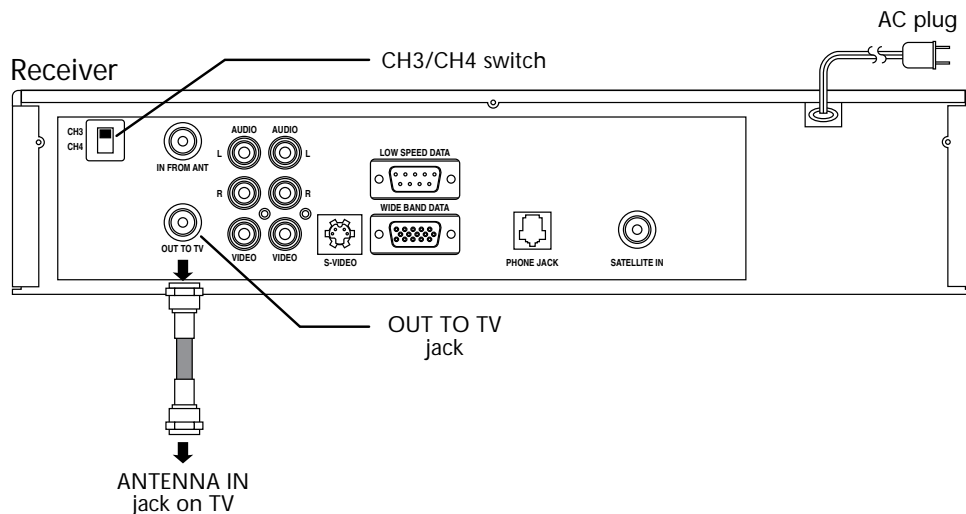
1. Save your bill of sale for warranty purposes.
2. Save all packing materials until installation has been completed, in case anything needs to be returned.
3. The shipping container should include the following:
 - Digital satellite receiver
 - DSS access card (already installed in the satellite receiver)
 - Universal remote control with two AA batteries
 - RG-6 cable, 6-foot length
 - Telephone line cord, 25-foot length
 - A/V cable, 6-foot length (included with the HIRD-A3 receiver only)
 - Satellite Receiver Owner's Guide
 - Quick reference card
4. Place the receiver at the desired location.



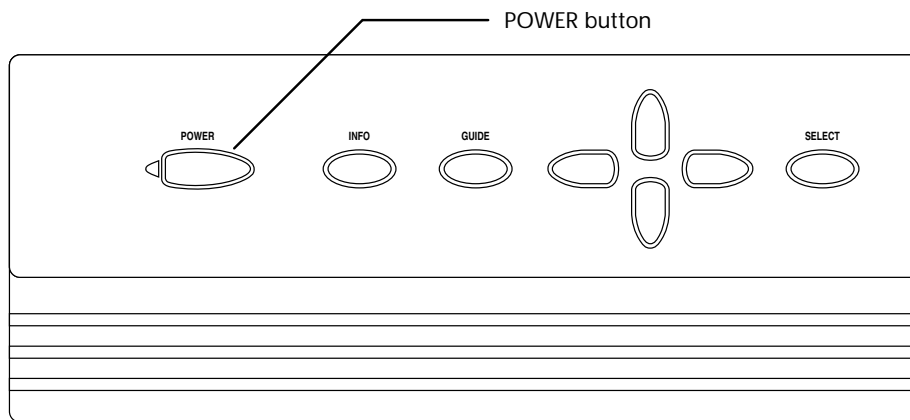
Caution

Avoid installing the receiver in a location where the AC power cord or cables could be inadvertently disconnected. The location should be well ventilated. Do not set electronic components or other objects on top of the receiver or block its cooling vents.

5. Temporarily connect an RG-6 coaxial cable between the OUT TO TV jack on the receiver and the ANTENNA IN jack on the back of your TV.



6. Plug in the satellite receiver's AC cord and press the POWER button to turn on the receiver.

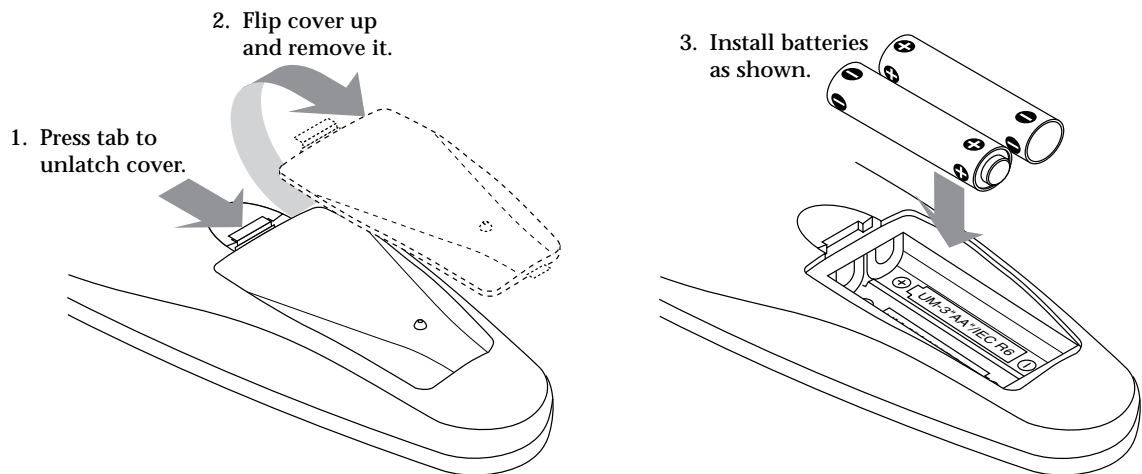


7. Turn on the TV.
8. Tune the TV to channel 3 or 4 to match the setting of the CH3/CH4 switch on the back of the satellite receiver.

2.2

Installing batteries into the remote control

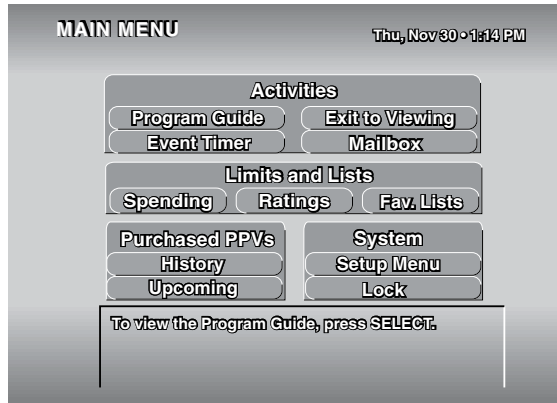
Before you can use the remote control, you must install the supplied size AA batteries as described below:



Note

Make sure the + and - on each battery lines up with the + and - marks on the battery compartment.

4. While aiming the remote control at the satellite receiver, press **ACTON**, then press **GUIDE**. The Main Menu appears, indicating that the remote is operating properly.



Note

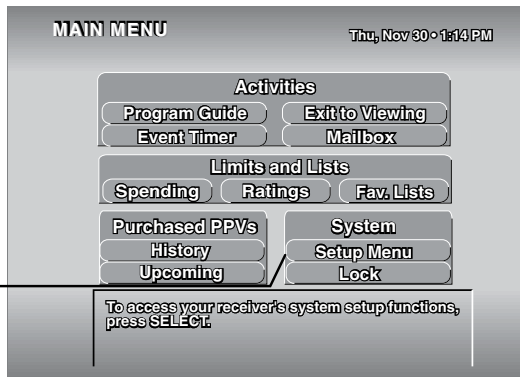
If you will be using the remote control to operate your TV or other audio/video components, refer to *Chapter 3, Using the remote* for information on programming the remote.

2.3

Determining where to point your satellite antenna

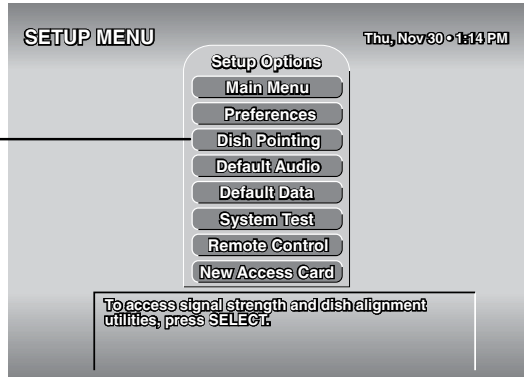
This section describes how to determine where the satellite is located in the sky relative to your home's location. The satellite receiver provides two ways to calculate the satellite location: by zip code, and by latitude/longitude. Both of these options are available under Dish Pointing on the Setup Menu. To have the receiver calculate the satellite location for you, do the following:

1. On the **Main Menu**, highlight **Setup Menu** and press **SELECT**.




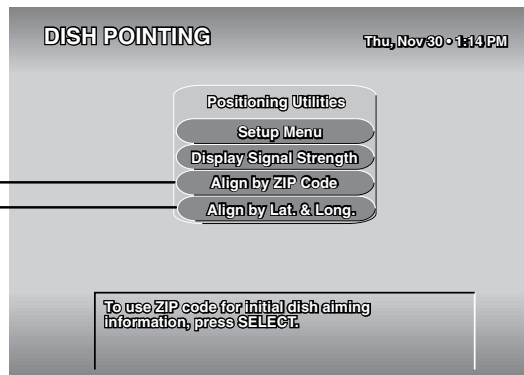
The Setup Menu is displayed.

2. On the **Setup Menu**, highlight **Dish Pointing** and press .




The Dish Pointing menu is displayed.

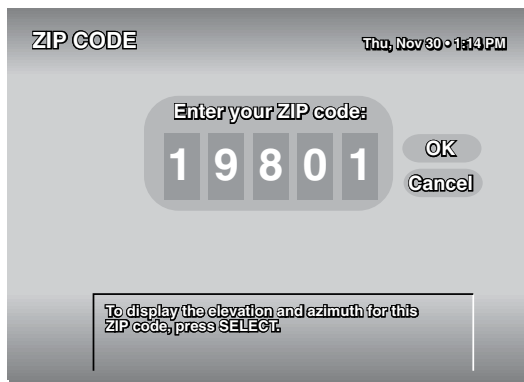
3. On the **Dish Pointing** menu, highlight **Align by ZIP Code** or **Align by Lat. & Long.** and press .

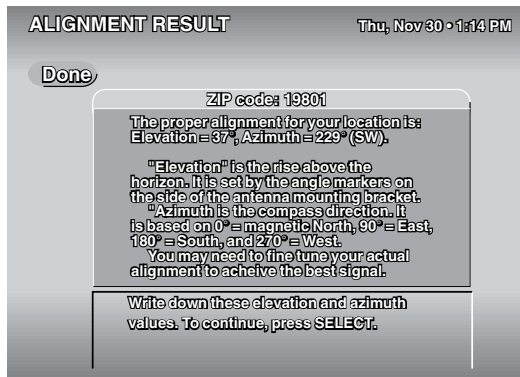


4. If you are aligning by ZIP code, go to step 5; otherwise, go to step 8 to align by latitude and longitude.


5. With the Zip Code screen displayed, use the ▲ or ▼ buttons or the numeric keypad to select and enter each digit of your zip code. Use the ◀ and ▶ buttons to move the highlight from one digit to the next.

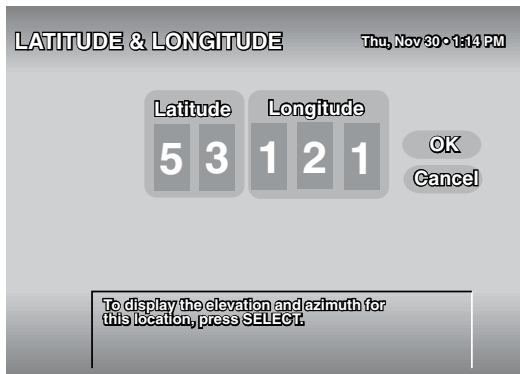
6. Highlight the **OK** button and press .



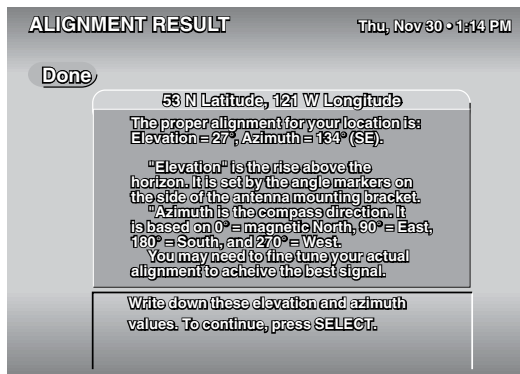


- The Alignment Result screen is displayed, showing the elevation and azimuth values you will need when aligning your antenna. Continue on to 2.4, *Aiming the antenna*.

- With the Position screen displayed, use the ▲ or ▼ buttons or the numeric keypad to select and enter the appropriate values. Use the ◀ and ▶ buttons to move the highlight from one digit to the next.
- Highlight the **OK** button then press .



- The Alignment Result screen is displayed, showing the elevation and azimuth values you will need when aligning your antenna. Continue on to 2.4, *Aiming the antenna*.



2.4

Aiming the antenna

The following section describes aiming the antenna. Before you can aim the antenna, you must have already done the following (see the **Satellite Antenna Installation Guide** for more information):

- Selected an antenna installation location
- Installed the mast or pole
- Installed the antenna onto the mast or pole
- Installed the coaxial cables

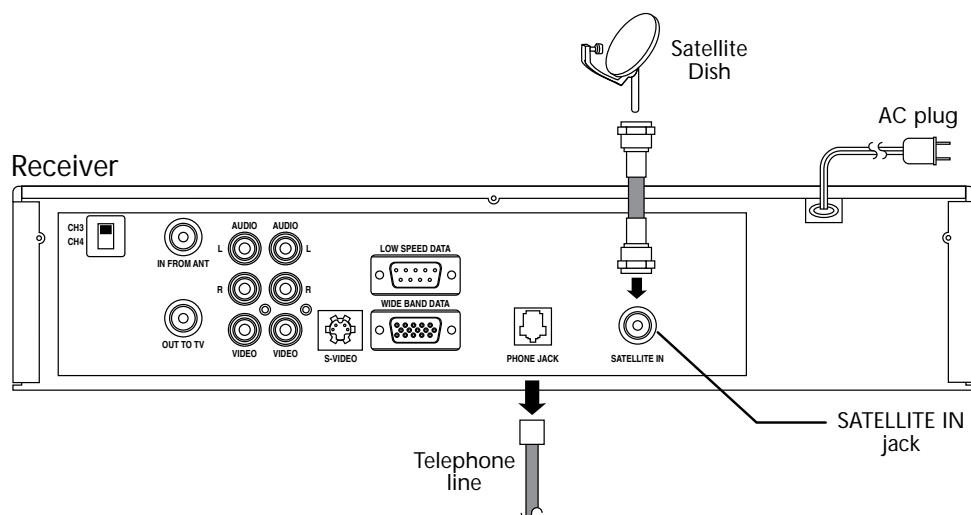
Tools and materials needed to aim the antenna

You will need a 7/16-inch wrench to adjust the antenna.

Connecting the antenna to the receiver

Connect the antenna to the receiver to fine-tune the antenna alignment.

1. Unplug the satellite receiver's AC cord from the wall receptacle.
2. Connect the RG-6 coaxial cable from the satellite antenna to the SATELLITE IN jack on the back of the satellite receiver.



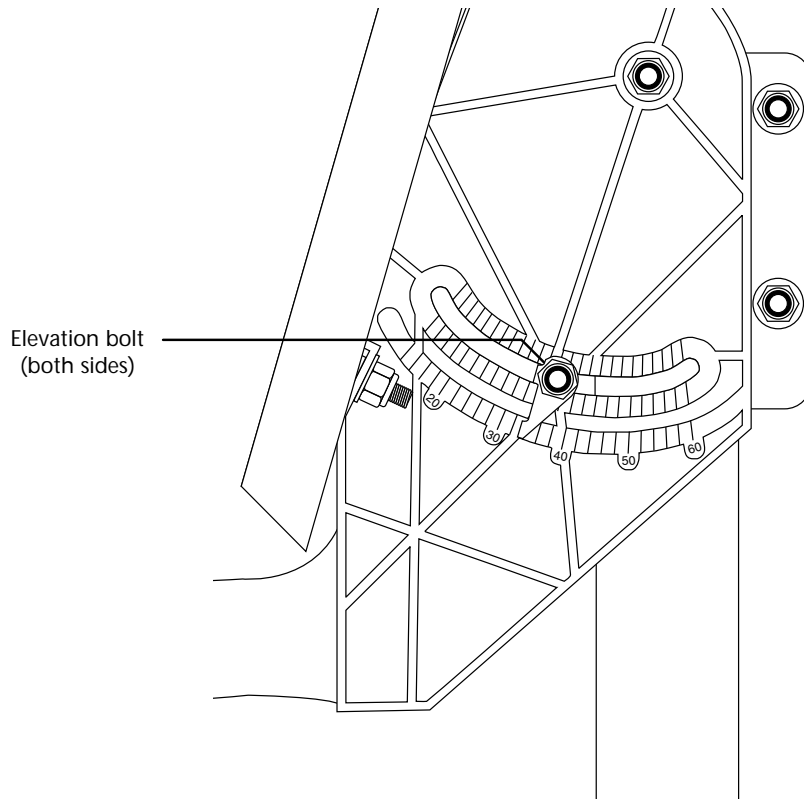
3. Plug in the satellite receiver's AC cord.
4. Turn the receiver back on.
5. Connect the telephone line cord between the PHONE JACK connector on the DSS receiver and the modular telephone wall outlet.

Note

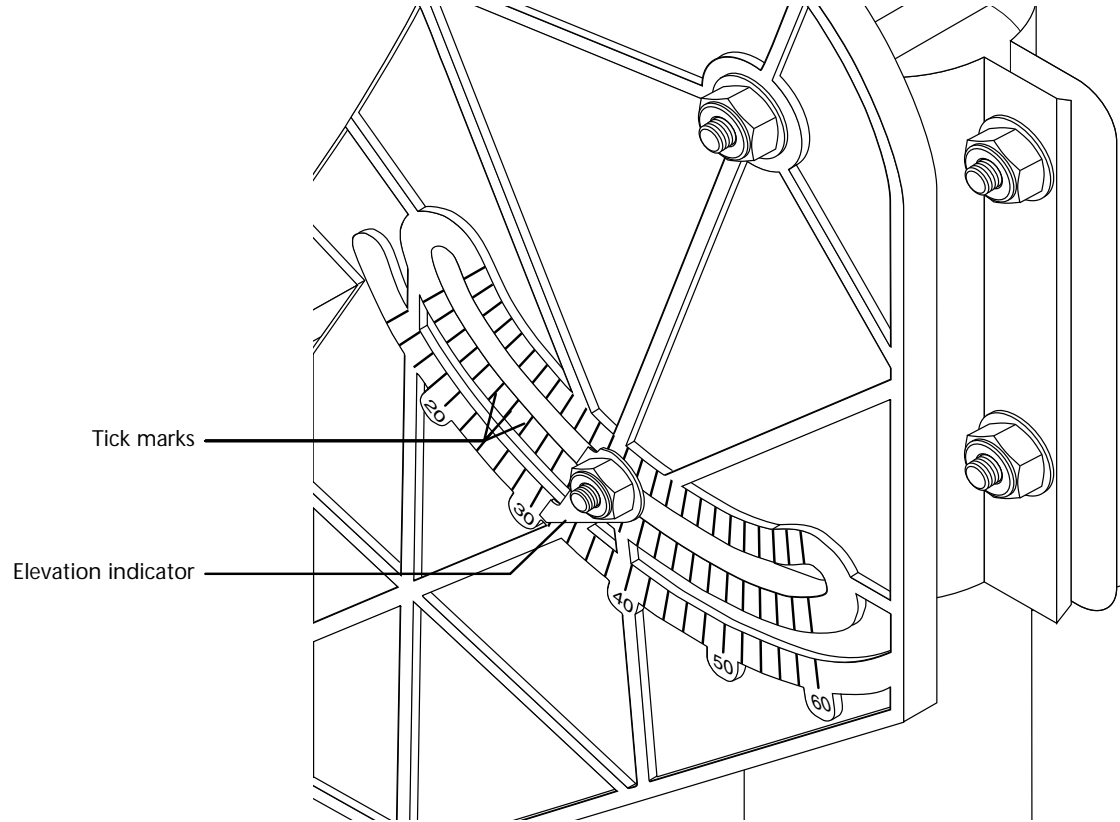
The telephone line connection is required for some (for example, PPV or regional sports), not all, services.

Positioning the antenna using the calculated azimuth and elevation values

1. Adjust the elevation by loosening the nuts securing the two elevation bolts (see diagram below) enough so that you can easily move the reflector up and down.

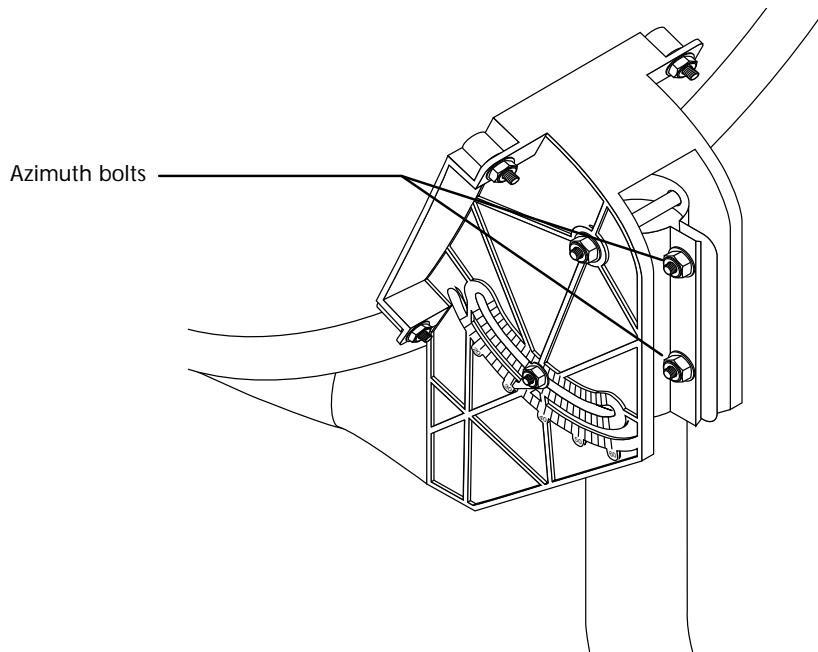


2. Line up the elevation indicator (see diagram below) with the tick mark corresponding to the elevation number calculated by the system.



3. When the front edge of the elevation indicator is aligned with the correct tick mark for the elevation you need, tighten both bolts.

4. Loosen the two azimuth bolts (see diagram below) just enough so you can turn the antenna smoothly with a little pressure.



5. Stand behind the antenna reflector, grasp the outer edges of the reflector (do not lean on the reflector as that would affect alignment), and rotate the antenna until it is pointing toward the calculated azimuth angle.

Note

A compass, such as the one included in the *HNS Do-It-Yourself Installation Kit*, will make it easier to point the antenna toward the correct azimuth angle.

Fine-tuning the antenna alignment using the signal strength meter

In the following procedure, you will be using the Signal Strength screen to point the antenna at the satellite. The Signal Strength screen displays a numeric value for the signal strength ranging from 0 to 99. A reading of 0 means that no signal is being received and a reading of 99 is the strongest possible signal. The maximum signal will vary from region to region. To use the Signal Strength screen, you can:

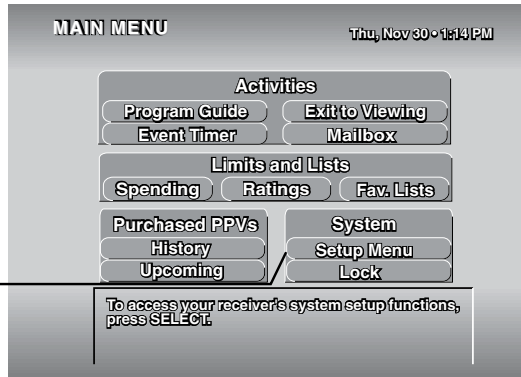
- Have someone watch the onscreen signal meter and call out the signal strength level while you adjust the antenna.
- Position the TV so you can see and/or hear the signal strength meter from the antenna.

Note

Even though any signal strength reading will give you the same high-quality picture and sound as a reading of 90, you should try to maximize the signal as much as possible, because changes in weather such as rain or snow can cause the signal strength to drop significantly. Check with your authorized dealer to determine what the highest value is you should be aiming for in your region.

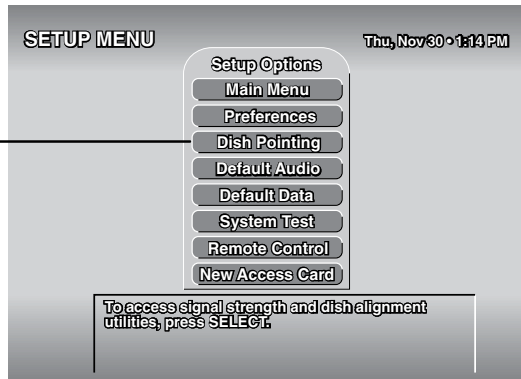
To determine signal strength:

1. On the **Main Menu**, highlight **Setup Menu** and press .




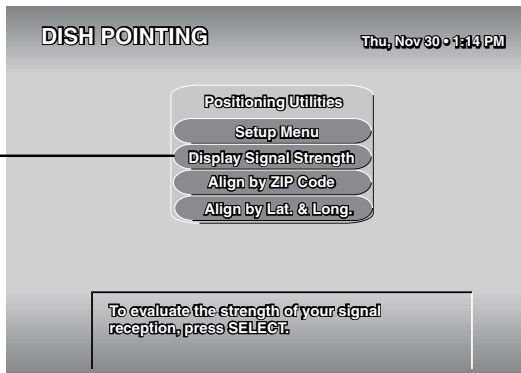
The Setup Menu is displayed.

2. On the **Setup Menu**, highlight **Dish Pointing** and press .



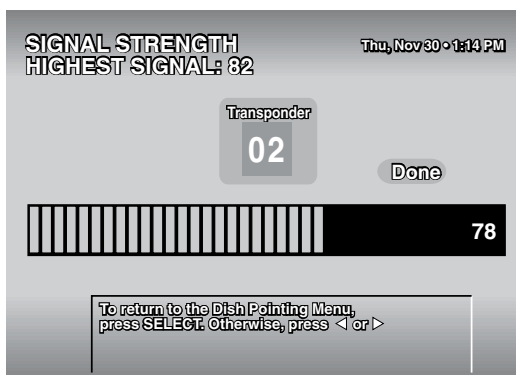
The Dish Pointing menu is displayed.

3. On the **Dish Pointing** menu, highlight **Display Signal Strength** and press .



The Signal Strength screen is displayed.

4. With the Signal Strength screen displayed, use the ▲ or ▼ buttons or the numeric keypad to select a transponder.



The vertical bars displayed below the transponder number are a graphical representation of the numeric value at the end of the line, and indicate the strength of the signal that the receiver is getting.

To make aiming the antenna easier if you are installing it by yourself, the system also emits tones so you can hear how strong the signal is. It works like this: if no signal is detected, a beep will sound every 10 seconds. When the system starts receiving the signal, it will emit beeps at a faster rate. The frequency of the beeps will continue to increase as the signal strength increases.

1. If you are receiving a signal, go to step 6. If no signal is present, stand behind the antenna reflector, grasp the outer edges of the reflector (do not lean on the reflector as that would affect alignment), and adjust the azimuth by *slowly* turning the antenna a small distance to the right while you or a helper watches the signal strength screen for indications that you are receiving the signal. Pause for a few seconds each time after moving the antenna to allow the satellite receiver enough time to lock on the satellite signal. Continue turning the antenna in this way until you have acquired the signal or until you have rotated the antenna approximately 15° from the starting point. If you acquire the satellite signal, go to step 6; otherwise, go to step 2.
2. If no signal is detected, return to the starting point and begin rotating the antenna to the left in the same way as you did in step 1. If you acquire the satellite signal, go to step 6; otherwise, go to step 3.
3. If you are unable to acquire the satellite signal after rotating the antenna approximately 15° to either side of the calculated azimuth angle, loosen the elevation bolts and tilt the antenna upward so the elevation indicator moves half the distance from the current tick mark to the next mark. Then tighten the elevation bolts.

4. Repeat steps 1 through 2 until you receive the signal. If you acquire the satellite signal, go to step 6; otherwise, go to step 5.
5. If necessary, continue changing the elevation in half-tick-mark increments followed each time by repeating steps 1 through 3 until you receive the signal. After tilting the antenna upwards three tick marks beyond the original tick mark, return the antenna to the original tick mark and tilt the antenna down a half tick mark. Repeat until you receive the signal.

Note

If you are still unable to acquire the satellite signal, perform the following quick checks:

- verify that there are no obstructions blocking the signal (for example, trees)
 - verify that you have the cables connected properly to the satellite receiver
 - verify that you copied the azimuth and elevation values correctly
6. Loosen the elevation bolts, then gently continue turning the antenna reflector a small amount in the same direction you were turning it when you began receiving the satellite signal. Pause for a few seconds each time after moving the antenna. Turn the antenna in this fashion until the signal strength meter reaches its highest reading and then begins to fall. When that happens, slowly turn the antenna in the other direction until you again achieve the highest reading on the signal strength meter.
 7. Tighten the azimuth bolts.
 8. Loosen the elevation bolts once again.
 9. Slowly tilt the antenna up and then down to try and improve the signal strength reading. When you are satisfied that you have achieved the strongest signal, tighten the elevation bolts.

If you have any questions or encounter any problems during antenna installation, call the **Customer Care Center** at **1-800-274-8995**.

Authorizing your service

The antenna is now installed and properly adjusted to receive satellite signals. To arrange to receive your DSS programming, contact **USSB®** at **1-800-204-USSB (8772)** and **DIRECTV®** at **1-800-DIRECTV (347-3288)**. Then refer to *2.5, Connecting the receiver to a TV or VCR*.

2.5

Connecting the receiver to a TV or VCR

The following pages show four examples of hookups commonly used to connect the DSS receiver with a TV and other components. Refer to your TV and VCR owner's guides for more information on hooking up your specific components.

Hookup diagram 1

This diagram shows how to achieve the best picture and stereo audio quality, and enables you to use a VCR to record programs in stereo. To use hookup diagram 1, you must have:

- TV with S-Video input jacks, plus RF and two audio/video input jacks
- VCR with RF input and output jacks, and audio/video input and output jacks (for hookup using model HIRD-A3 only)
- S-Video, coaxial, and audio/video cables

Hookup diagram 2

This diagram shows how to get very good picture and stereo audio quality, and enables you to use a VCR to record programs. To use hookup diagram 2, you must have:

- TV with separate RF and audio/video input jacks
- VCR with RF input and output jacks
- Coaxial and audio/video cables

Hookup diagram 3

This diagram shows how to achieve good picture and mono audio quality, and enables you to use a VCR to record programs. To use hookup diagram 3, you must have:

- TV with RF input jack
- VCR with RF input and output jacks
- Coaxial cables

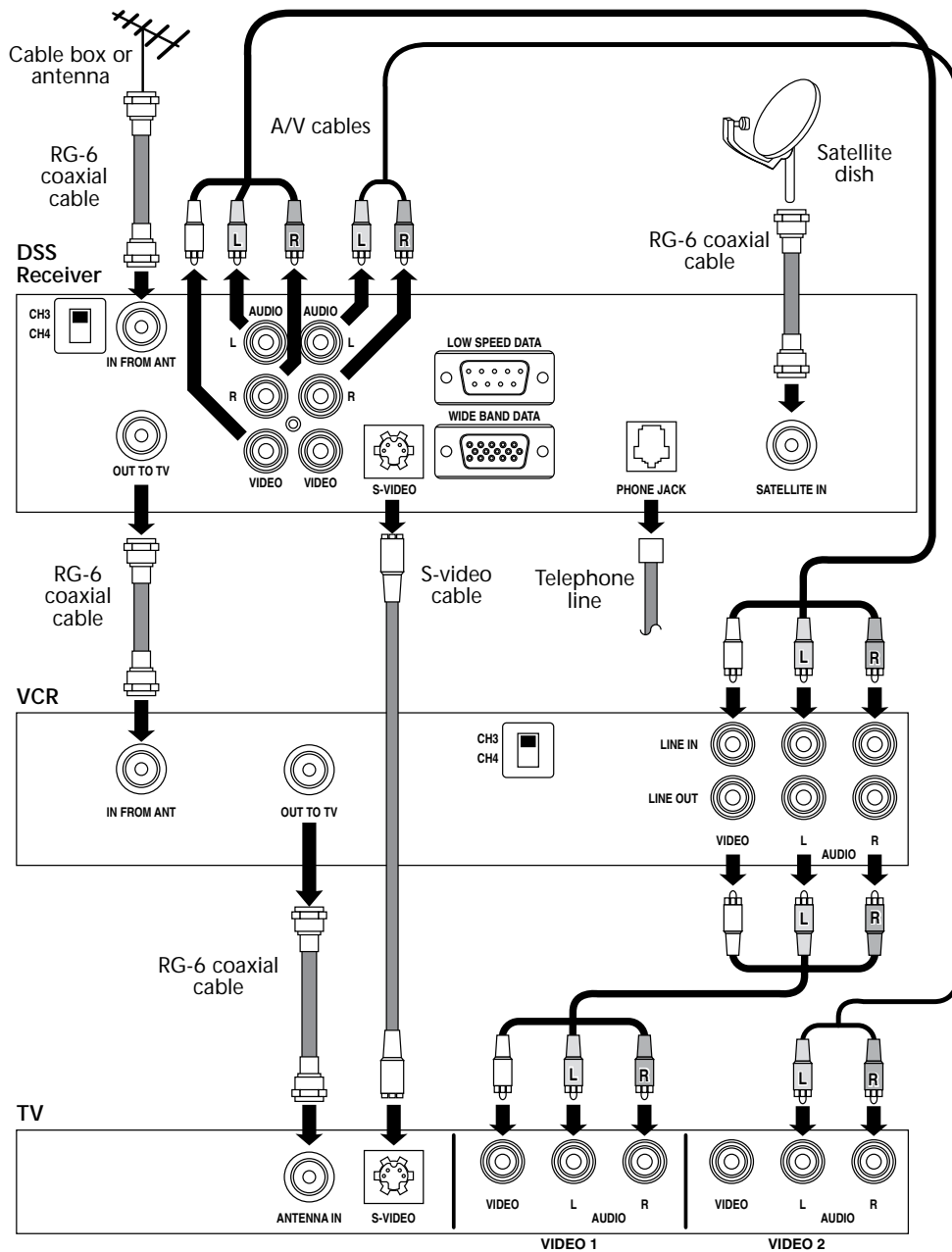
Hookup diagram 4

This diagram shows how to get good picture and mono audio quality. To use hookup diagram 4, you must have:

- TV with RF input jack
- Coaxial cable

Hookup diagram 1

1. Connect an RG-6 coaxial cable between the IN FROM ANT jack on the receiver and the cable box OUT jack or antenna wall plate jack as shown below.



2. Connect an RG-6 coaxial cable between the OUT TO TV jack on the receiver and the IN FROM ANT jack on the VCR as shown.
3. Connect an RG-6 coaxial cable between the OUT TO TV jack on the VCR and the ANTENNA IN jack on the TV as shown.
4. Set the CH3/CH4 switch on the VCR to the same setting as the CH3/CH4 switch on the satellite receiver.

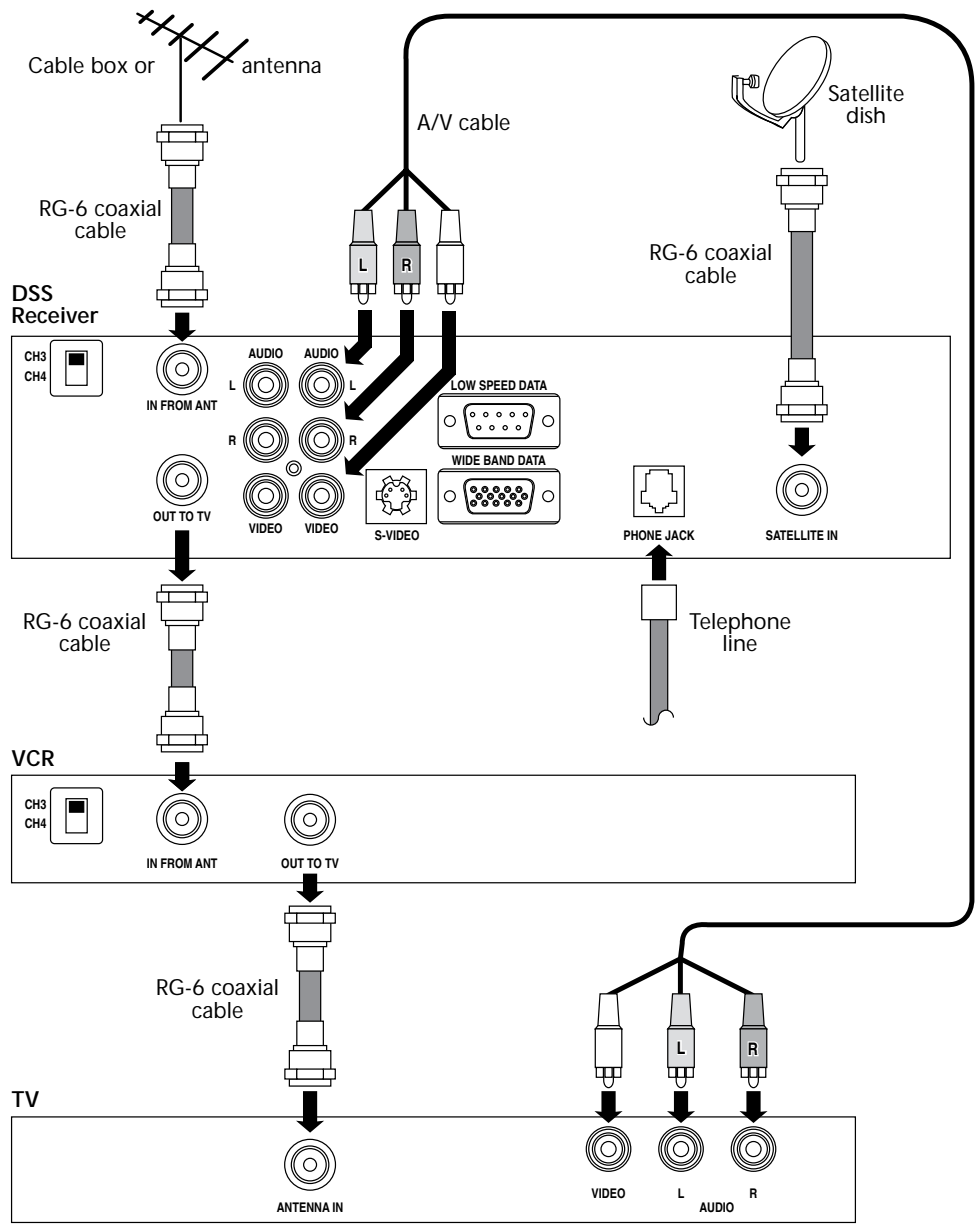
5. Connect a left (L) audio cable between an AUDIO (L) jack on the receiver and the VIDEO 2 – AUDIO (L) jack on the TV as shown.
6. Connect a right (R) audio cable between the AUDIO (R) jack on the receiver and the VIDEO 2 – AUDIO (R) jack on the TV.
7. If you have the model HIRD-A2 receiver, go to step 13. Otherwise, connect a left (L) audio cable between the other AUDIO (L) jack on the receiver and the LINE IN – AUDIO (L) jack on the VCR as shown.
8. Connect a right (R) audio cable between the AUDIO (R) jack on the receiver and the LINE IN – AUDIO (R) jack on the VCR.
9. This step describes installing a video cable onto the VIDEO jack that is grouped with the audio jacks discussed in steps 7 and 8. Connect a video cable between the VIDEO jack that on the receiver and the LINE IN – VIDEO jack on the VCR as shown.
10. Connect a left (L) audio cable between the other LINE OUT – AUDIO (L) jack on the VCR and the VIDEO 1 – AUDIO (L) jack on the TV as shown.
11. Connect a right (R) audio cable between the LINE OUT – AUDIO (R) jack on the VCR and the VIDEO 1 – AUDIO (R) jack on the TV.
12. Connect a video cable between the LINE OUT – VIDEO jack on the VCR and the VIDEO 1 – VIDEO jack on the TV.
13. Connect the S-video cable between the S-VIDEO jack on the receiver and the S-VIDEO jack on the TV.

When you are ready to begin watching programs, refer to 2.6, *Using the satellite system to watch programs*. If you want to use your VCR to record a program, refer to 2.7, *Using your VCR to record DSS programs*.

Hookup diagram 2

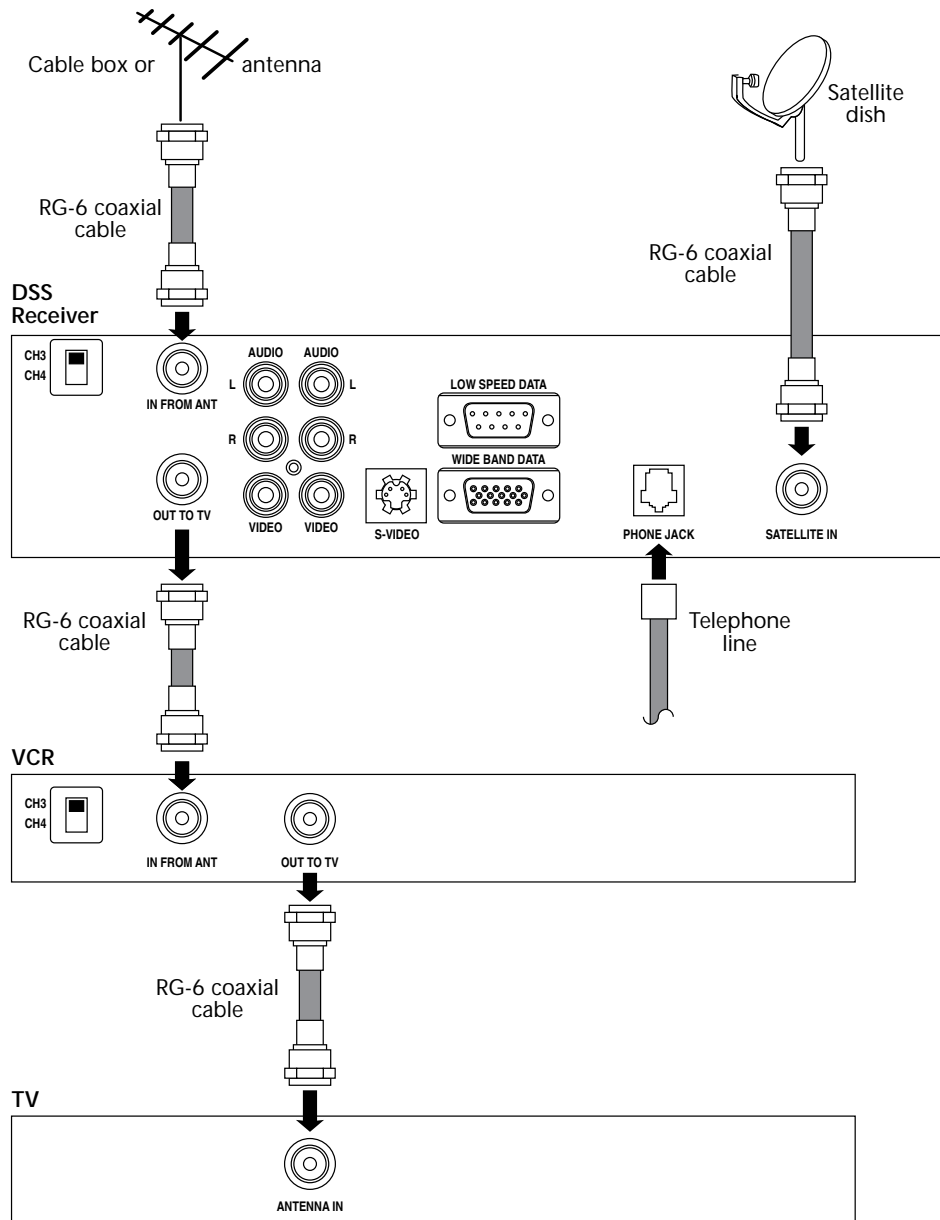
1. Connect an RG-6 coaxial cable between the IN FROM ANT jack on the receiver and the cable box OUT jack or antenna wall plate jack as shown at right.
2. Connect an RG-6 coaxial cable between the OUT TO TV jack on the receiver and the IN FROM ANT jack on the VCR.
3. Set the CH3/CH4 switch on the VCR to the same setting as the CH3/CH4 switch on the satellite receiver.
4. Connect an RG-6 coaxial cable between the OUT TO TV jack on the VCR and the ANTENNA IN jack on the TV.
5. Connect the left (L) audio cable between the AUDIO (L) jack on the receiver and the AUDIO (L) jack on the TV.
6. Connect the right (R) audio cable between the AUDIO (R) jack on the receiver and the AUDIO (R) jack on the TV.
7. Connect the video cable between the VIDEO jack on the receiver and the VIDEO jack on the TV.

When you are ready to begin watching programs, refer to 2.6, *Using the satellite system to watch programs*. If you want to use your VCR to record a program, refer to 2.7, *Using your VCR to record DSS programs*.



Hookup diagram 3

1. Connect an RG-6 coaxial cable between the IN FROM ANT jack on the receiver and the cable box OUT jack or antenna wall plate jack as shown below.



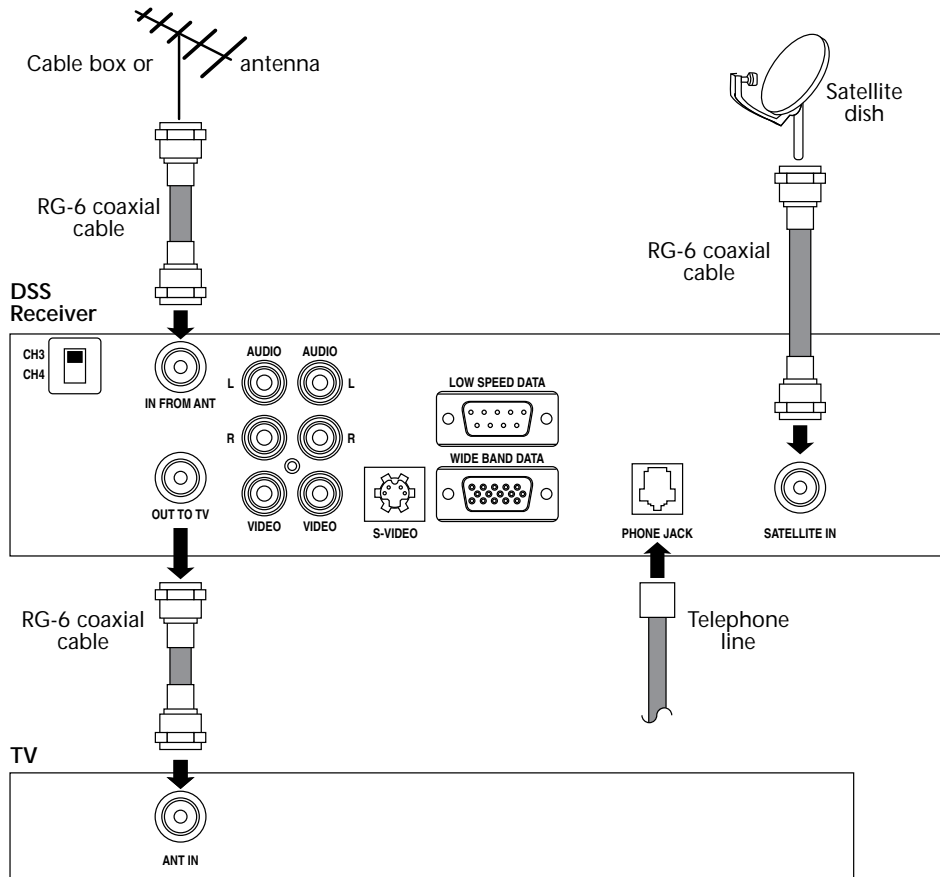
2. Connect an RG-6 coaxial cable between the OUT TO TV jack on the receiver and the IN FROM ANT jack on the VCR as shown.
3. Connect an RG-6 coaxial cable between the OUT TO TV jack on the VCR and the ANTENNA IN jack on the TV as shown.

4. Set the CH3/CH4 switch on the VCR to the same setting as the CH3/CH4 switch on the satellite receiver.

When you are ready to begin watching programs, refer to 2.6, *Using the satellite system to watch programs*. If you want to use your VCR to record a program, refer to 2.7, *Using your VCR to record DSS programs*.

Hookup diagram 4

1. Connect an RG-6 coaxial cable between the IN FROM ANT jack on the receiver and the cable box OUT jack or antenna wall plate jack as shown below.



2. Connect an RG-6 coaxial cable between the OUT TO TV jack on the receiver and the ANTENNA IN jack on the TV as shown.

When you are ready to begin watching programs, refer to 2.6, *Using the satellite system to watch programs*.

2.6

Using the satellite system to watch programs

To watch a DSS program:

1. Turn the TV on and set it to a channel that receives the signal from the satellite receiver. (If you are using the S-video or audio/video jacks on the satellite receiver to connect to the TV, the channel is usually called LINE 1 or VIDEO 1. Otherwise, set the TV channel to 3 or 4 to view the signal from the OUT TO TV connector on the receiver.)
2. Press the POWER button on the remote or the satellite receiver to turn on the receiver (the green LED will be lit) and select a program to watch.

To watch a program from an over-the-air broadcast or from cable TV:

1. When the satellite receiver is on, press the TV/DSS button on the remote control to switch from DSS to TV mode. Or, you can switch to TV mode by turning the satellite receiver off.
2. If you do not have a cable box, turn the TV on and set it to the channel of the program you want to watch. Otherwise, turn the TV on and set it to the channel that receives the signal from the cable box; then, set your cable box to the channel you want to watch.
3. To start watching DSS programs again, press the TV/DSS button on the remote control, or turn the satellite receiver back on.

2.7

Using your VCR to record DSS programs

1. Turn on the TV and VCR, and set them both to a channel that receives the signal from the satellite receiver. (If you are using the S-video or audio/video jacks on the satellite receiver to connect to the TV or VCR, the channel is usually called LINE 1 or VIDEO 1. Otherwise, set the TV or VCR channel to 3 or 4 to view the signal from the OUT TO TV connector on the receiver.)
2. Press the POWER button on the remote or the satellite receiver to turn on the receiver (the green LED will be lit) and select a program to watch.
3. Insert a blank tape into the VCR and press the record button on the VCR to start taping.

Note

If you want to watch a cable TV or over-the-air program while taping, you must use the LINE 1 or VIDEO 1 input on your VCR to record the DSS programs, as shown in hookup diagram 1. You can then press the TV/DSS button to set the DSS receiver to TV mode and view the cable or over-the-air program that is output from the OUT TO TV jack of the DSS receiver. Doing so will not affect the DSS program being recorded.

Note

If you want to record a program that will be playing in the future, you can use the Event Timer to schedule the event you want to record (see 7.3, *The Event Timer*). Make sure you set the VCR to match the time and date of the event scheduled in the Event Timer.

Using the remote

Your remote control provides you with easy access to all the system menus, functions, and operations. There are two models of the remote:

- The **HRMC-2** model features 28 buttons, including operational (power, volume and channel) buttons, functional (Action, Info, Guide, Fav, and Exit) buttons, directional buttons, and a numeric keypad. This model controls the TV and the receiver.
- The **HRMC-3** model includes all the features already described, plus additional buttons for VCR control (play, fast forward, rewind, etc.), an LED indicator, multiple-component control capability, and backlighting. You can program this model to operate not only the TV but also any auxiliary audio and/or video components, such as your cable box, VCR, tuner/amplifier, or laser disc player.

The remote control also features several “quick access” buttons that provide easy and flexible navigation through programming and system operations.

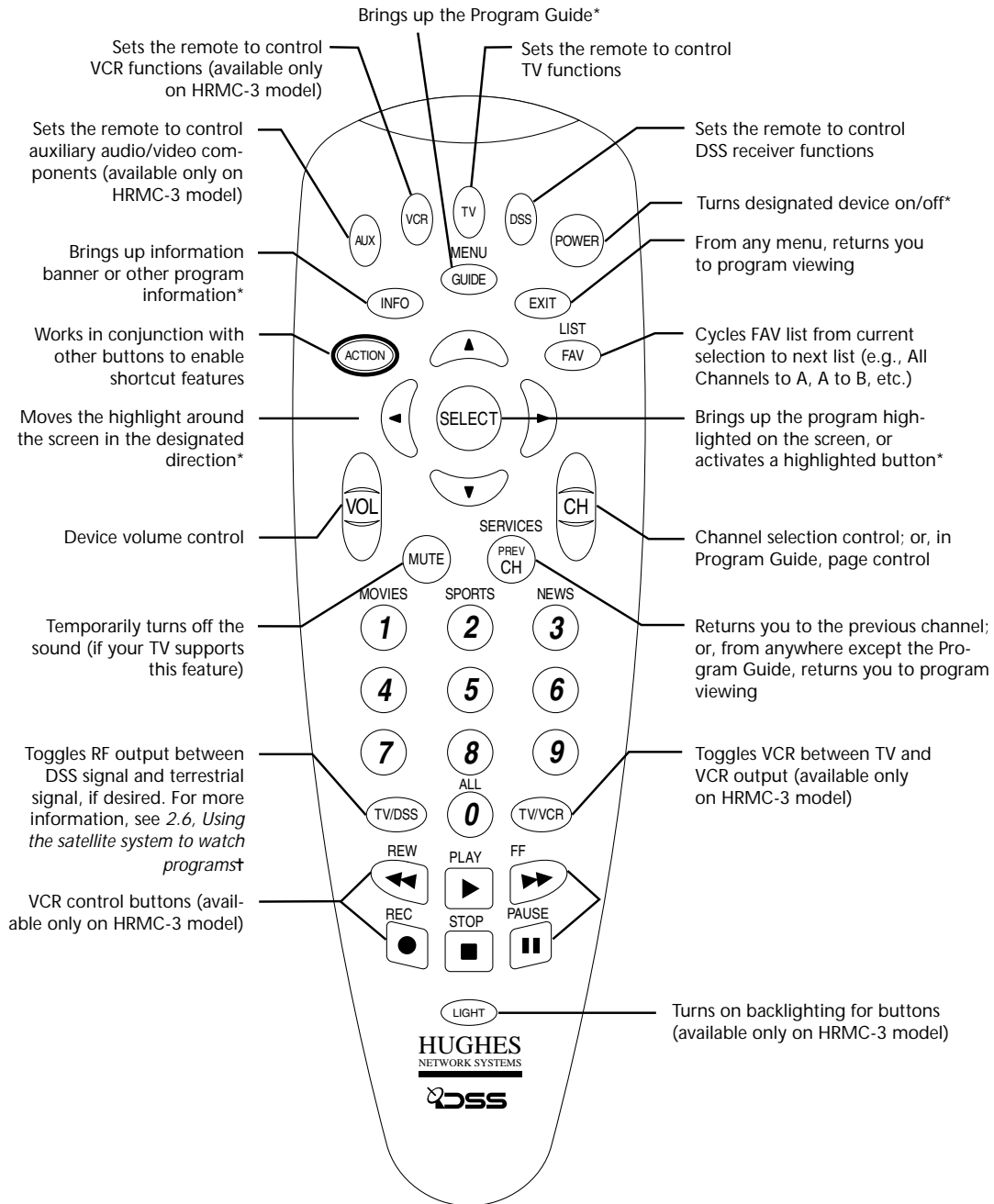
This chapter provides an overview of the various buttons on the remote, and instructions on programming the remote to control auxiliary components. Most of these procedures can be done with either model.

Those functions that pertain only to the HRMC-3 model are so identified.

3.1

Button functions

The following illustration summarizes the functions of the buttons on the remote model HRMC-3.




*You can also perform this function with the corresponding button on the receiver.

†On the model HRMC-2 remote, this button replaces the VCR button in the upper left corner.

In addition to the functional buttons, the remote features a numeric keypad (buttons 1 through 0) that you can use for functions such as changing channels and automatically sorting the Program Guide. To use all these buttons to control your components, you must first program the remote to control the components. See 3.2, *Programming the remote*, for further information.















The ACTION button

The Action button, in conjunction with various other remote buttons, provides quick access to several additional features. The yellow band around the button corresponds with the yellow words on the remote: MENU, LIST, SERVICES,¹ MOVIES, SPORTS, NEWS, and ALL. Thus, for example, if you press the ACTION button, then press the GUIDE button (below the word MENU), the Main Menu appears on the screen.

1. Press .
2. Press the button corresponding to the feature printed on the remote.

Note that you must press the buttons sequentially, not simultaneously.

The following table summarizes the available ACTION features:

	+		=	Accesses Main <i>Menu</i>
	+		=	Directly accesses Favorite <i>Lists</i> screen where you can add (or delete) the channel being viewed to (or from) the current Favorite List
	+		=	Accesses alternate audio and data <i>Services</i> , if they are available
	+		=	Filters Program Guide to display only <i>Movies</i> (same as Category button function on Program Guide)
	+		=	Filters Program Guide to display only <i>Sports</i> programs (same as Category button function on Program Guide)
	+		=	Filters Program Guide to display only <i>News</i> programs (same as Category button function on Program Guide)
	+		=	Disables all filters and displays <i>All</i> categories of programming on the Program Guide

¹Either data services (when available), or audio services such as sound or information tracks other than standard English or the primary track that accompanies the program.

3.2

Programming the remote



When you first unpack your HNS brand DSS product, the remote is already programmed to control the DSS receiver. In addition, both the HRMC-2 and HRMC-3 models include a TV button that you can use to program the remote to control your TV. The HRMC-3 model features several other buttons that enable you to control your complete home entertainment system:

- You can program the VCR button on the remote to control your VCR.
- You can program the AUX button to control additional components, such as a laser disc player, tuner, or cable box.
- You can program one of the component buttons—for example the AUX button—to control an alternate component, such as a second TV.


Controlling the TV and VCR using the TV and VCR buttons

Note

VCR control is only available with the HRMC-3 model.

1. Manually turn on the component you wish to have the remote control—for example, the TV.
2. On the remote, press the matching component button (in this example, TV) and the  button simultaneously. *After you press these buttons, you have approximately 20 seconds to perform the remaining steps.* (With the HRMC-3 model only, the LED turns on to indicate that the remote is in programming mode. It will go off automatically in 20 seconds if you do not enter a code number.)
3. Point the remote control toward the component and press the CH up button repeatedly, or keep it pressed. Release the button as soon as it turns the component off. Once the component turns off, confirm that you have found your matching code by pressing . This should turn your component back on. If it doesn't, you may have gone past the matching code. You can return to it by pressing the CH down button one step at a time until your component turns on.

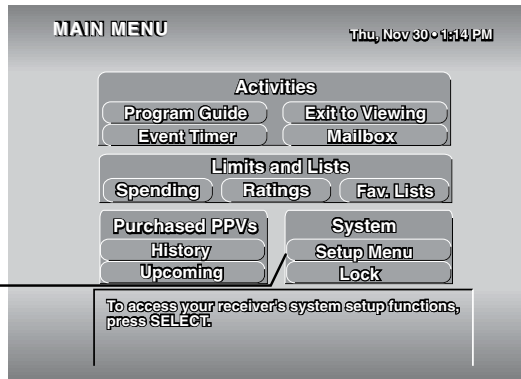
Note

If you own an RCA brand television, this step may not work. For some RCA brand televisions, you must press the TV component button to turn the power on, and then press the  button to turn the power off. If you go beyond the code, you may have to turn off the system and then turn it on and start over again.


4. Once you have confirmed the matching code, press the component button on the remote (in this example, TV) to store the code. (With the HRMC-3 model only, the LED blinks twice to confirm the storage.)

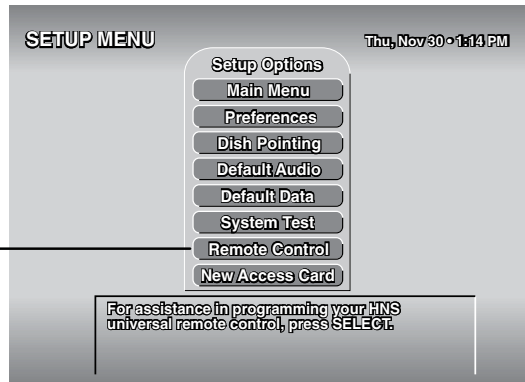
For your convenience and easy reference, these programming instructions are also available onscreen. To access the onscreen instructions:

1. On the **Main Menu**, highlight **Setup Menu** and press .



The Setup Menu appears.


2. On the **Setup Menu**, highlight **Remote Control** and press .



The Remote Control screen appears, displaying the same programming procedures described above.

Note

There is also a manual technique for programming the remote using a simple three-digit code. For more information on this technique, and source lists of codes for various audio/video components, see *Appendix A, Component codes for programming your remote*.

When using the remote to turn a programmed component on or off, simply press the corresponding button on the remote and press . When using the remote to select a program or navigate through the screens and menus, point the remote at the DSS receiver and press the button for the function you want to perform.



Keep in mind that the blue buttons on the remote always control the DSS receiver, no matter what mode you are in. However, once you program the other component buttons (AUX, VCR, and TV) so that the remote controls the relevant components, you must be in that component's mode in order to use the remote effectively. For example, once you program your remote to control your television, you must set the remote in TV mode—that is, press the TV button—in order to control the TV with the remote.

Controlling other components using the AUX button

Note


AUX control is only available with the HRMC-3 model.

To program the remote to control other components with the AUX button:

1. Manually turn on the component you wish to have the remote control—for example, a laser disc player.
2. On the remote, press the AUX button and the  button simultaneously. The LED turns on to indicate that the remote is in programming mode. (It will go off automatically in 20 seconds if you do not enter a code number.) *After you press these buttons, you have approximately 20 seconds to perform the remaining steps.*
3. Point the remote control toward the component and press the CH up button repeatedly, or keep it pressed. Release the button as soon as it turns the component off. Once the component turns off, confirm that you have found your matching code by pressing . This should turn your component back on. If it doesn't, you may have gone past the matching code. You can return to it by pressing the CH down button one step at a time until your component turns on.
4. Once you have confirmed the matching code, press the AUX button on the remote to store the code. The LED blinks twice to confirm the storage.

Volume control in AUX mode

Note that when the remote is in TV, VCR, or DSS mode, the volume button on the remote controls the sound volume from the television. When you're in AUX mode, if your auxiliary component has audio output, the volume button controls that component's sound volume. If your auxiliary component has no audio output, you can program the volume button so that it continues to control the TV volume when you're in AUX mode. To control the volume through the television when you are in AUX mode:


1. Press the AUX button and the  button simultaneously.
2. Press the VOL up button.

Once you perform these steps, whenever you are in AUX mode the volume button controls the volume through the television. In the event that you reprogram the AUX button to control a different component at some future time, you can restore the remote's capability to control the auxiliary component's volume by simply repeating these two steps.

VCR functions in AUX mode

The VCR function buttons (PLAY, REW, FF, STOP, PAUSE and REC) on the remote perform those VCR functions when the remote is in TV and DSS, as well as VCR, mode. However, if you program the AUX button to control a

component that does not need or use these functions, you can program the remote to maintain VCR functionality in AUX mode. To maintain VCR functionality in AUX mode:

1. Press the AUX button and the  button simultaneously.
2. Press the VOL down button.



Once you perform these steps, whenever you are in AUX mode the VCR function buttons will continue to control the VCR. In the event that you reprogram the AUX button to control a different component that uses these VCR functions at some future time, you can re-establish the remote's capability to perform those functions on the auxiliary component by simply repeating these two steps.

Note

On components such as laser disc players, some but not all of the VCR functions may be performed or may be called something slightly different than the VCR buttons on the remote. For example, laser disc players have no REC capability, and the REW may be called REVERSE, and FF may be called FORWARD. You may want to check the functionality closely to see if it's a good idea to use the remote to maintain VCR functionality in AUX mode or not.


Assigning a component to a different component button

With the HRMC-3 model only, you can also assign a component to a remote component button that does not correspond to it—for example, you can assign a second TV to the AUX component button.

1. Manually turn on the component you wish to have the remote control—in this example, a second TV.
2. Press an alternate component button on the remote—in this example, the AUX button—and the  button simultaneously. The LED turns on to indicate that the remote is in programming mode.
3. Press the TV button.
4. Point the remote toward the TV and press the CH up button repeatedly, or keep it pressed. Release the button as soon as it turns the component off. Once the component turns off, confirm that you have found your matching code by pressing . This should turn your component back on. If it doesn't, you may have gone past the matching code. You can return to it by pressing the CH down button one step at a time until your component turns on.
5. Once you have confirmed the matching code, press the AUX button on the remote to store the code. The LED blinks twice to confirm the storage.

Identifying current component codes

With the HRMC-3 model only, you can also use the remote to check the codes that have been programmed into it.

1. Press the component and  buttons on the remote simultaneously. The LED turns on.
2. Press the ACTION button and count the number of times the LED blinks for each digit. Each digit of the three-digit code is separated from the next one by a 3-second pause, during which time the LED is “off”. For example, if the code number is 021, the LED will blink **10** times, pause three seconds, blink **twice**, pause three seconds, and blink **once**.

3.3

Maintaining the remote

The remote requires very little maintenance. It is powered by two AA batteries. For information on how to install the batteries, see 2.2, *Installing batteries into the remote control*.

Navigating from the main menu

The Main Menu may be considered your home base. From the Main Menu you can access not only the Program Guide and program viewing, but also the entire gamut of system functions and activities. And, from anywhere in the system you can usually return to the Main Menu with one or two quick clicks of the remote.

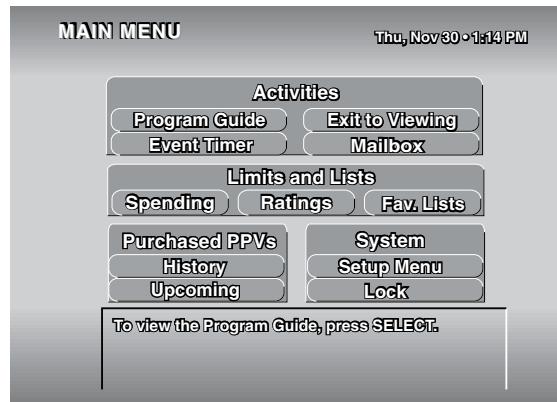
CHAPTER

4


4.1

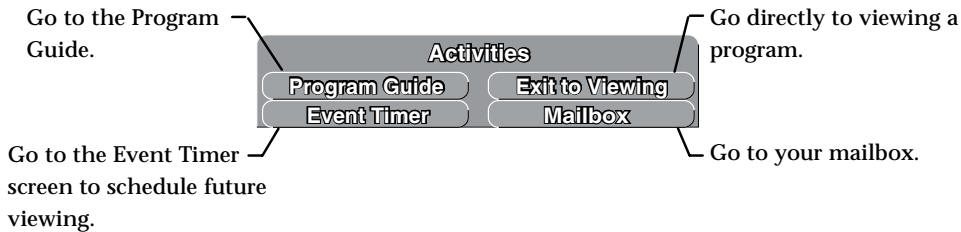
Overview

Ease of use is one of the system's primary features. With a quick glance at the Main Menu, you can see not only the power but also the flexibility of the system, all accessible through the Main Menu options.




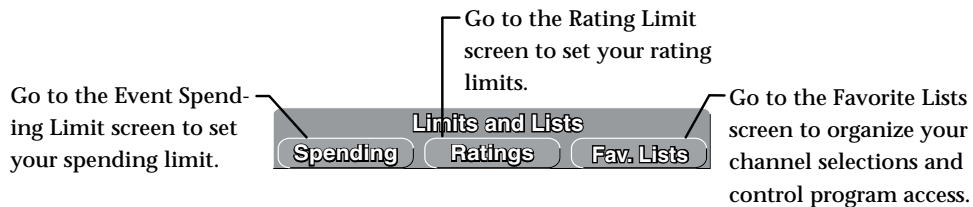
Activities

The top four buttons are direct routes to the destination shown. Highlight the buttons and press  to:




Limits and Lists

The middle buttons all relate to system restrictions and channel lists that you can set. Highlight the buttons and press  to:



Purchased PPVs

The lower left buttons direct you to your account records of programs purchased as well as programs ordered. Highlight the buttons and press  to:

Go to the Past Purchases screen to review events you have purchased and viewed.

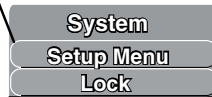


Go to the Upcoming Purchases screen to see what you have ordered but not yet viewed.

System

The lower right buttons enable you to tailor your system configuration and to lock and unlock your system.

Go to the Setup Menu to perform system operations and configure system features.



Lock or unlock the system, thus enabling or disabling the restrictions you have set.

4.2

Where do I go from here?

The answer is, wherever you want to go! All of the system features and functions are described in this Guide, but experience is the best teacher! As you become familiar with the remote and learn your way around, you will begin to understand and enjoy the power and potential of the Hughes Network Systems brand Digital Satellite System.

Accessing program information

The Hughes Network Systems brand Digital Satellite System Program Guide shows you at a glance what's available at a given time on up to seven different channels. The information banners and screens offer more detailed information on program content, ratings, length, and viewing and purchasing options. The Program Guide, information banners and screens, and other menus and screens also display a variety of icons relating to program status, options, and other features.

CHAPTER

5

5.1

Program guide basics

The main Program Guide grid consists of three half-hour time slots displayed horizontally for each of up to seven channels that are listed vertically at one time. (If you prefer, you can configure the display to show four half-hour time slots—see *Chapter 10, Setting user preferences.*)

Use the arrow buttons on the remote or on the front panel of the receiver to navigate your way around the Guide. These arrows move the highlight from one area of the screen to another—across slots, channels, and headings in the menu bar. Keep in mind that each click of an arrow moves the highlight only one slot at a time in the direction the arrow is pointing; you must click or hold to repeat the arrow each time you want to move the highlight.

Programming

The half-hour segments begin with the current time slot (for example, if you are viewing the Guide at 3:15 PM, the first time slot shown would be 3:00 PM). If a program is more than 30 minutes long, the slots for that program are merged to indicate the length of the program. For example, for an hour-long program two slots would be merged; for a 90-minute program, three slots would be merged, and so forth. If a program started before the current time, a left-pointing arrow (◀) indicates a program that began earlier and is already in progress; if a program extends beyond the time slots displayed, a right-pointing arrow (▶) indicates the continuation.

To view the Program Guide, press **GUIDE**; the Program Guide appears on the screen. This screen displays for you at a glance:



The screenshot shows a 'PROGRAM GUIDE' screen for 'Thu, Nov 30 • 1:14 PM'. At the top, it says 'COMPLETE • ALL CHANNELS'. Below this are four buttons: 'Main Menu', 'Category', 'List', and 'Class'. The main area is a grid with columns for 'Today', '1:00 PM', '1:30 PM', and '2:00 PM'. The rows represent different channels and their programs:

Today	1:00 PM	1:30 PM	2:00 PM
HBOW 983	2001: A Space Odyssey ▶		
HB2W 984	◀ The Plague	The Last Best Year ▶	
Sho 985	◀ Smile	The Seventh Coin ▶	
Sho2 986	◀ Poltergeist	Danny ▶	
ShoW 987	◀ Quiz Show ▶		
MTV 989	◀ Music Videos ▶		
Com 990	The Best of Saturday Night	Soap	Benny Hill ▶

The Guide shows all programming offered by authorizing service providers, in addition to promotional channels for all service providers. From this screen you can select a program for viewing, or sort the available programs using the buttons across the top of the Guide. You can

- access the **Main Menu** to perform other functions;
- filter and view **Categories** of programming (for example, movies, news, or sports) that are available;
- filter and view **Types** of programming available in each category—for example, comedy, drama, or musical for the Movie category—this button is available only in conjunction with the Categories option;

- review the **Lists** you have personalized to display only specific channels;
- review future program listings in other **Guides** so you can plan your programming; or
- filter and view specific **Classes** of programs (for example, pay-per-view or Subscription) you want to watch.

The heading in the upper left corner displays the screen title and any sorting criteria you have invoked, thus showing what the current Guide is displaying. In this example, “Complete” indicates that you have not specified any classes; “All Channels” indicates that you have not specified a favorite channel list. If you specify the “Movies” category and the Fav. A. channel list, the subtitle would read “Movies • Fav. A”; the Guide then reflects your sorting choices accordingly. For more information on personalizing your Program Guide, see 5.2, *Sorting your programming*.



Caution

The Program Guide will not appear onscreen until you have correctly positioned the satellite dish. For information on aiming the dish, see 2.4, *Aiming the antenna*.

Channel listings

The Program Guide lists up to seven channels down the left side of the grid at one time. You can choose to display the channels either by number or by abbreviated alphabetical name (for example, HBO®). (See *Chapter 10, Setting user preferences* for information on how to specify the display style.) The number of channels displayed depends on whether you want to view all available channels or only a limited selection of channels, such as only movie channels, or only sports channels.


To see other channel listings-

- Use the ▲ or ▼ buttons to scroll to the channel listings above and below those currently shown.

OR


- Enter a three-digit channel number sequence to either go to a specific channel or to view a listing of channels whose numbers are in the same numerical range as the sequence you entered.

OR

- Press  up or down to “page” through the Program Guide.

Note

For some SONY brand televisions you must press the ENTER button on the SONY remote after using the numeric keypad to complete a function, such as entering a code or changing channels.

On the HNS remote, use the  button in place of the ENTER button to perform such functions.

You can also personalize the Program Guide to display only your favorite channels. The **Channel Lists** feature enables you to group your favorite channels into five major lists: **All Channels**, **Fav.A**, **Fav.B**, **Fav.C**, and a fifth list that you can label either **Fav.D** or **Child**, depending on your personal preferences and access restriction needs. (See 6.4, *Customizing your Fav. Lists* for more information on this feature.)


Selecting a program

You can select a program in one of three ways:

- directly from the Program Guide
- from the One-Line Guide™
- from the Logo Belt™

Both the One-Line Guide and the Logo Belt offer a quick way to review program listings while you continue watching your current program.

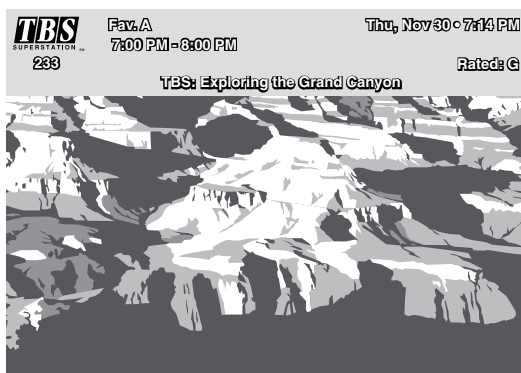
To select a program—


- Highlight the program block for the current timeslot on the screen or highlight the channel ID and press .

OR




- In the viewing mode, use the numeric buttons on the remote and enter a specific three-digit channel number.

Assuming that you are authorized to receive the program, and that the program is within any rating limits you may have set (see 6.3, *Setting program rating limits*), the program you have selected appears on your screen, along with an **information banner** superimposed across the top of the picture.



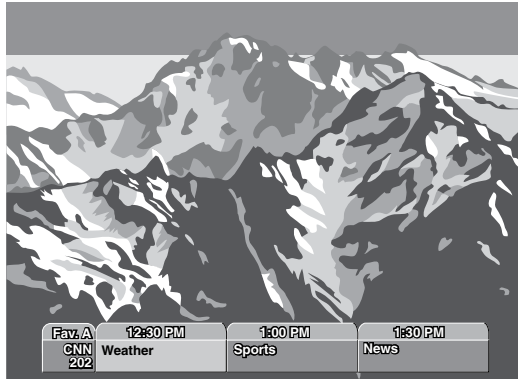
In addition to program information, the banner displays any applicable icons for locked condition, unread mail, and additional audio and data tracks. The banner displays for approximately ten seconds, then disappears. To remove it sooner, simply press .

Note

The  button acts as a toggle for the information banner. If the banner is displayed, press  to remove it. If the banner is not displayed, press  to recall it.

The OneLine Guide

While you are watching a program, press ▲ or ▼ to check other channel listings on the OneLine Guide, a one-line representation of the Program Guide superimposed over the picture. The OneLine Guide highlights a channel's currently airing program.



Press ▲ or ▼ to scroll up or down through the channel listings on the OneLine Guide. Press ◀ to access the channel tag and then scroll up or down in that column. To change programs, highlight the one you want to see on the Guide and press **SELECT**.

The OneLine Guide automatically disappears from the screen if you do not press the arrow buttons for more than ten seconds.

The LogoBelt

While you are watching a program, press ◀ or ▶ to access the LogoBelt, a horizontal display of channel logos and their related numbers. The currently tuned channel is highlighted in the center of the LogoBelt, and the program title is displayed above the LogoBelt.



To select a channel from the LogoBelt, press ◀ or ▶ to move the highlight in the designated direction. Highlight the channel you want to see and press **SELECT**. Once a channel is selected, the LogoBelt disappears.

5.2

Filtering your programming

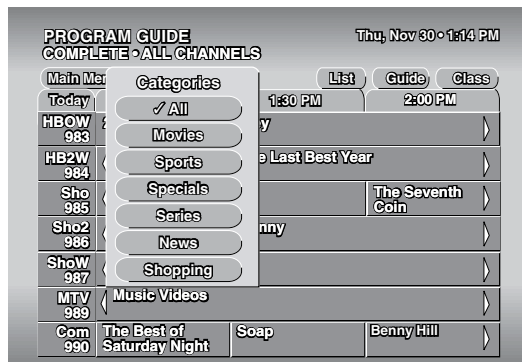
Filtering your programming makes it easier to access favorite channels, lists, and programs in one or two easy steps. You can filter all the various types of programming available on the Program Guide through a variety of methods. This section describes the functions of the Program Guide's filter buttons. Use the arrow buttons to move the highlight around the screen. When you select a button, a drop-down menu offers further options for filtering programming choices.

Note

In the examples below you will notice a checkmark (✓) next to one selection on each drop-down menu. This checkmark indicates the currently selected menu option. When you change a selection, the checkmark moves to the option you select.

Categories

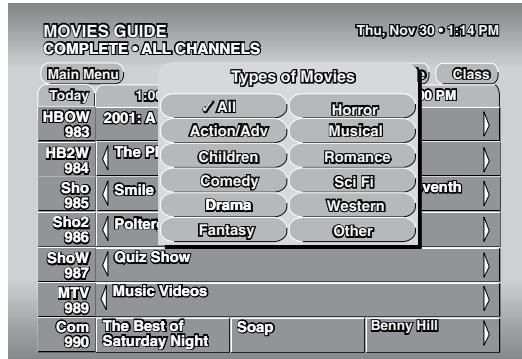
When you highlight the **Category** button and press **(SELECT)**, a drop-down menu displays the available programming categories.



When you highlight a category and press **(SELECT)**, the Guide displays events in that category. For example, if you select Movies, the Guide displays the channels showing movies, and the current or future movies airing for each channel in the related time slots.

Types

You can further filter the Guide display with the **Type** button, which is available only when you specify a programming Category. When you highlight **Type** and press **SELECT**, a drop-down menu displays the types of the category you previously specified—in this example, types of movies.

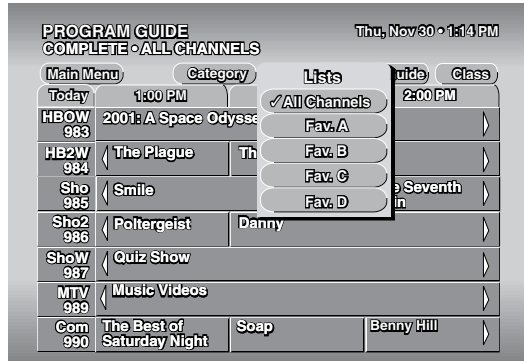


When you highlight the type of movie you prefer and press **SELECT**, the Guide display changes to list the movies of the type you have selected.

From this display you can highlight the movie you want to see, using the arrow buttons to navigate around the Guide. When the highlight reaches the movie you want to see, press **SELECT**. Assuming you are authorized to receive it, the movie will appear on your screen.

Channel lists

Channel lists allow you to build custom channel access screens. When you highlight the **List** button and press **SELECT**, a drop-down menu displays the names of the five channel lists that you can use to filter your favorite programming by channel. You can additionally customize the name of the last option, Fav. D, and call it Child if you want to restrict the viewing habits of younger members of your household. (See *Chapter 10, Setting user preferences* for information on how to label the last channel list.)

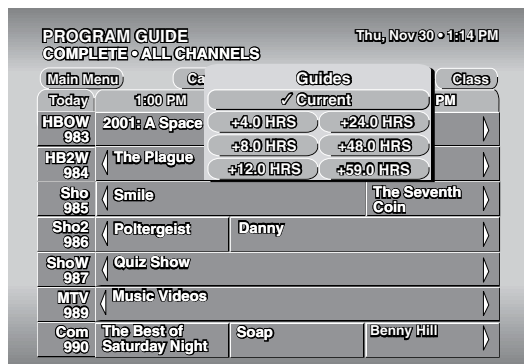


When you select one of these options, the Guide display is simplified to show only those channels that you have included in the list.

For information on customizing your channel lists, see *6.4, Customizing your Fav. Lists*.

Guides


When you highlight the **Guide** button and press **SELECT**, a drop-down menu displays other guides, if available. Other guides include extensions to the main guide which starts with the current half-hour time slot.



When you select a guide other than the Current guide, the time slot headings on the Program Guide change to reflect the new time period you specified. For example if it is currently 1:00 PM, if you select +4 HRS, the time slots will change to display 5:00 PM, 5:30 PM, and 6:00 PM.

To return “home” (the first channel listing in the current guide), press 0-0-0 (3 zeroes) on the remote numeric keypad. This numeric sequence brings you home from anywhere in the Guide.

Classes

When you highlight the **Class** button and press , a drop-down menu displays a selection of programming, grouped by class, available through the service providers.



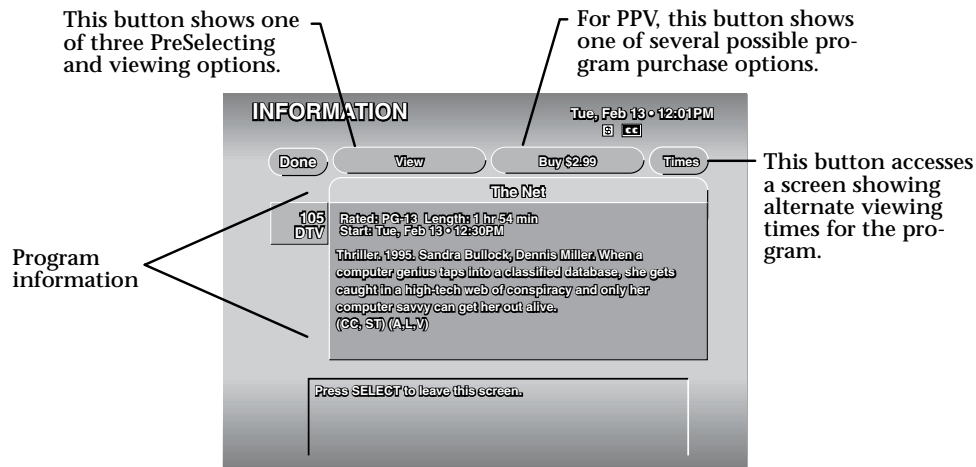
These classes provide another way to filter programming. For example, if you select **Subscrptn**, the Program Guide displays listings for those channels included in your monthly subscription. If you select **PPV**, the Program Guide displays listings of available pay-per-view programming. When you select one of these options, the Guide changes to display only those channels of the chosen class.

5.3

Other program information

In addition to the information banner, the system includes information screens for both subscription and pay-per-view programming. These screens present extended program information, along with options for viewing programs at the present time, PreSelecting future programs, and purchasing and ordering pay-per-view features.

To access the information screen for a program, highlight it on the Program Guide and press **INFO**. The information screen appears as follows:



Viewing options include **View**, indicating that the program is airing right now and you can view it immediately; **PreSelect**, indicating that the program is not currently available for viewing, but you may PreSelect it for viewing at its future air time; and **Cancel PreSelect**, which appears only on information screens for programs that you have PreSelected, offering you the option of cancelling your PreSelection.









Program purchase options include **Buy \$X.XX**, indicating the program price for a single viewing option; **Cancel Purchase**, which appears only on information screens for programs that you have previously purchased, offering you the option of cancelling your purchase; **Buy \$...**, which accesses a drop-down menu of options for viewing and/or taping; and **Override Lock**, which enables you to temporarily unlock your spending and rating limits so you can purchase a specific program.

See *Chapter 7, Scheduling your viewing*, for more information on PreSelecting and purchasing programs.

5.4




Icons

Periodically one or more icons may appear onscreen. Most of these icons relate to specific program features or options, and have the following meanings:

-  - Indicates that the system is locked; program ratings, spending limits, and Child Fav. List (if applicable) restrictions are in effect
-  - Indicates that you have temporarily overridden the lock; valid for the current viewing session only
-  - Indicates that the specified program is a pay-per-view program
-  - Indicates that you cannot tape the specified program
-  - Indicates that subtitles may be available for the hearing-impaired on TVs that support this feature
-  - Indicates that the program may be heard in alternate audio
-  - Indicates that data services are available on the selected channel
-  - Indicates new, unread mail in your mailbox

5.5

Accessing the main menu

For other system functions not related to program viewing or to the Program Guide, highlight the **Main Menu** button and press  or press  + . The Main Menu appears on your screen.