

HITACHI

Digital Satellite System Owner's Manual



	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.

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Note on Recording Programming—Most television programs and films are copyrighted. This means that someone has legal rights governing the reproduction and distribution of this material. In certain circumstances, copyright law may apply to private in-home taping of copyrighted materials. In most cases, it is permissible to record for personal use, as long as you do not sell the material. You must act responsibly in this area - check into the matter if you are unsure.

Some pay-per-view programs may be licensed from producers as "view only" programs. These are copyrighted programs and may not be copied or reproduced for any purpose without the express written permission of the copyright owner.

DSS Programming—For subscription information, or to resolve problems related to DSS programming, call the service providers, including DIRECTV at 1-800-DIRECTV (347-3288) and USSB at 1-800-204-USSB (8772).

Hitachi-brand DSS Hardware and Installation—To arrange for professional installation of your DSS system, ask questions, or to resolve problems related to your Hitachi-brand DSS system, contact your dealer. If additional information is needed, please contact Hitachi toll free at 1-800-477-1212.

Hitachi Home Electronics (America), Inc.
3890 Steve Reynolds Boulevard
Norcross, GA 30093

System Model #: _____

Receiver Model #: _____

Receiver Serial #: _____

Access Card #: _____

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

In addition to the careful attention devoted to the quality standards in the manufacture of your DSS product, safety is a major factor in the design of every instrument. However, safety is your responsibility, too.

The following information will help to ensure your enjoyment and proper use of the DSS system. Please read this information carefully before installing, operating and using your DSS equipment.

Installation

1. Read and Follow Instructions—All the safety and operating instructions should be read before the DSS product is operated. Follow all operating instructions.

2. Retain Instructions—The safety and operating instructions should be retained for future reference.

3. Heed Warnings—Comply with all warnings on the DSS product and in the operating instructions.

4. Polarization—This DSS product is equipped with a polarized alternating current line 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 are unable to insert the plug fully into the outlet, try reversing the plug. If the plug fails to fit, contact your electrician to replace your obsolete outlet. 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.

5. Power Sources—This DSS 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 power supply to you home, consult your DSS dealer or local power company. For DSS products intended to operate from battery power, or other sources, refer to the operating instructions.

6. Overloading—Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock. Overloaded ac outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation, have it replaced by your service technician.

7. Power Cord Protection—Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to cords at plugs, and the point where they exit the DSS product.

8. Ventilation—Slots and openings in the case are provided for ventilation to ensure reliable operation of the DSS product and to protect it from overheating. These openings must not be blocked or covered. The openings

should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation such as a bookcase or rack unless proper ventilation is provided.

9. Attachments—Do not use attachments unless recommended by the DSS product manufacturer as they may cause hazards.

10. Water and Moisture—Do not use this DSS product near water—for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like.

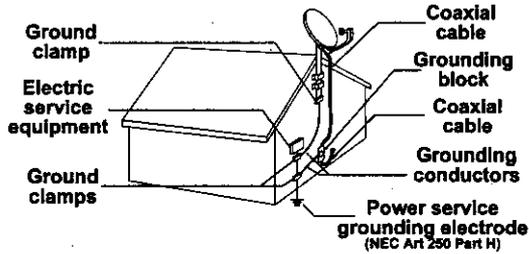
Caution: Maintain electrical safety. Power line operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.

11. Accessories—Do not place this DSS product on an unstable cart, stand, bracket, or table. The DSS product may fall, causing serious injury to a child or adult as well as serious damage to the DSS product. Any mounting of the product should follow the manufacturer's instructions.

12. Moving—A DSS product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the DSS product and cart to overturn.

13. Satellite Dish Antenna Grounding—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 Electric Code (NEC) and in particular Article 810-15, which covers proper installation and grounding of television receiving equipment, as well as to Article 820-40, which 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. 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 a professional installer make the installation, the installer must observe installation codes. The "Satellite Antenna Installation Guide" provided

with the DSS product contains instructions on how to make the installation in compliance with the NEC. If additional local installation codes apply, contact local inspection authorities.



EXAMPLE OF ANTENNA GROUNDING ACCORDING TO THE NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN "RADIO AND TELEVISION EQUIPMENT"

14. Television Antenna Information—Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer. An 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. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. If an outside antenna is connected to the DSS receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the NEC, NFPA No. 70 1987, 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.

15. Power Lines—Extreme care must be taken when installing and adjusting or maintaining the outdoor antenna and connecting cable, especially in the vicinity of overhead power lines, electric lights, or power circuits. When installing the outdoor antenna or cable, extreme care should be taken to keep from touching or approaching such power lines or circuits as contact with them might be fatal.

16. Cleaning—Unplug this DSS product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

17. Object and Liquid Entry—Never push objects of any kind into this DSS product through openings as they may touch dangerous voltages or "short out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the DSS product.

Service

18. Servicing—Do not attempt to service this DSS product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. There are no

user serviceable parts inside. Refer all servicing to qualified service personnel.

19. Conditions Requiring Service—Unplug this DSS product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled on, or objects have fallen into, the DSS product or it has been exposed to rain or water.
- If the DSS product does not operate normally by following 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 DSS product to its normal operation.
- If the DSS product has been dropped or the cabinet has been damaged.
- When the DSS product exhibits a distinct change in performance.

20. Replacement Parts—When replacement parts are required, have the service technician verify that the replacements are used have the same safety characteristics as the original parts. Use of replacement parts specified by the DSS product manufacturer can prevent fire, electric shock, or other hazards.

21. Safety Check—Upon completion of any service or repairs to this DSS product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the DSS product is in safe operating condition.

FEDERAL COMMUNICATIONS COMMISSION (FCC) REGULATORY INFORMATION

Federal Communications Commission (FCC)—

The Hitachi-brand DSS system 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 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 antenna.
- Increase the separation between the equipment and the 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.

To meet FCC requirements, 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 coin lines or party 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 the equipment.
 - the Universal Service Order Code (USOC) jack required. This equipment 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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A FIRST LOOK AT THE HITACHI-BRAND DSS[®] SYSTEM



Hitachi Brings You the Most Full-Featured Digital Satellite System

You did it! You've selected a Hitachi-brand DSS system. This system provides the most advanced digital video and audio capabilities available today.

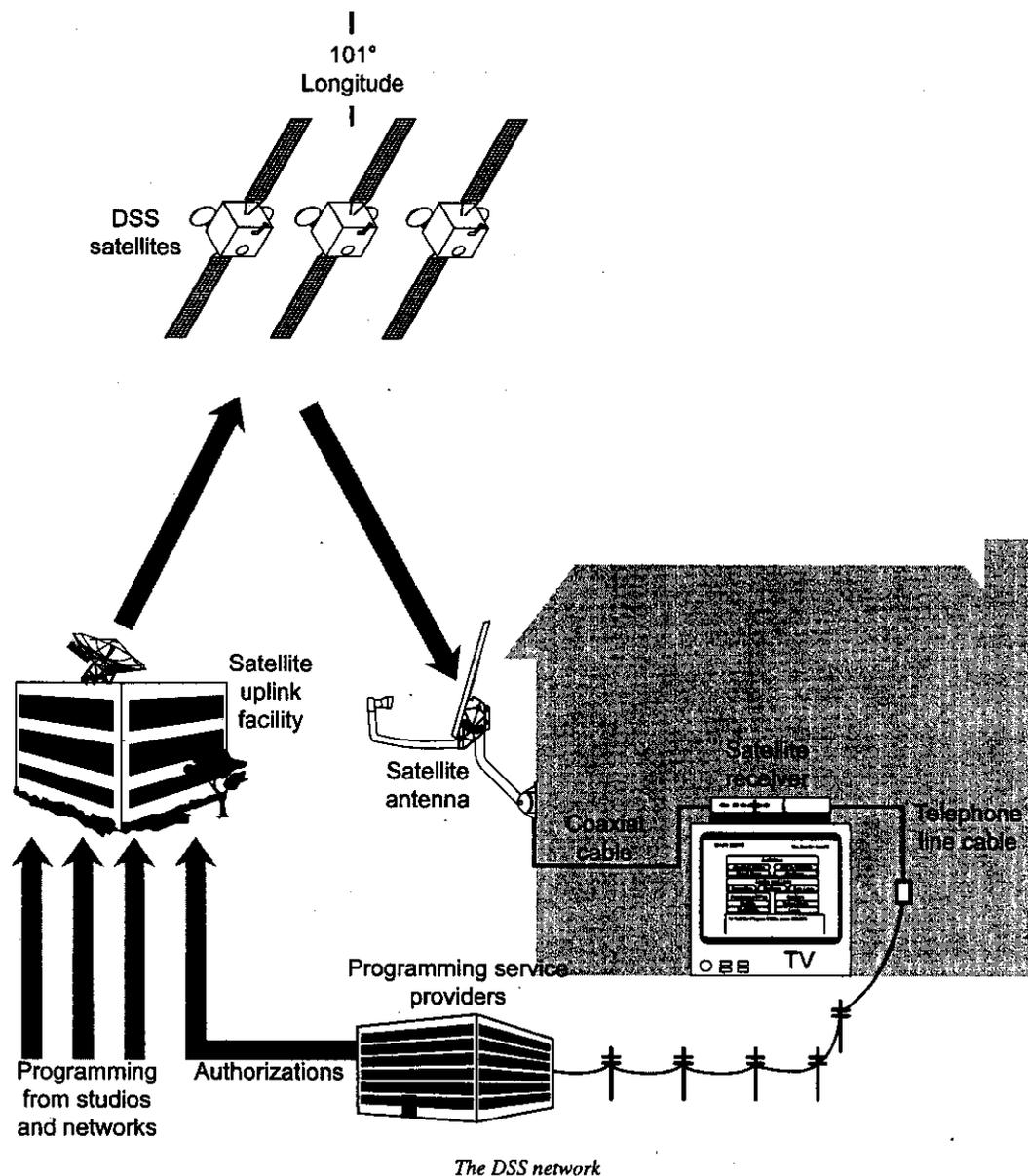
You now have the capability to receive over 200 channels of video programming, CD-quality audio, and data services. This may seem like magic, but it isn't. It is amazing, though!

What You Should Do First

Your Hitachi digital satellite system is both a complicated technical miracle and an easy to operate source of entertainment. You should complete the following steps to achieve the greatest performance from your system:

- Read the included guides and manuals to familiarize yourself with the system.
- Install your DSS receiver.
- Install your satellite antenna and cable.
- Align the antenna toward the satellite.
- Arrange for programming from the services providers.
- Sit back and enjoy digital satellite TV!

How Does All This Work?

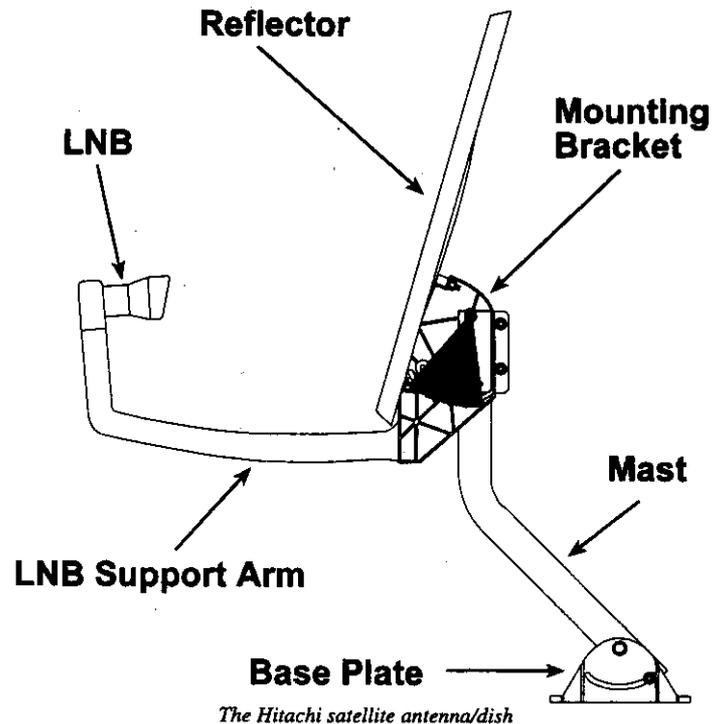


Many film studios, news organizations and other broadcasters provide their video, audio, and data services to DIRECTV and USSB uplink centers. These service providers then digitally transmit the signals 22,300 miles in space to a grouping of three satellites. From there the digital signals are beamed back to earth where they are received by your satellite dish antenna. The signals then go into your DSS receiver where they undergo extensive processing to determine if you are authorized to have access to them. The signals are then reconverted into high quality video and audio that you can enjoy on your television. The telephone connection is used by your DSS receiver to report back to the service providers any purchase activity.

The Components of the Hitachi Digital Satellite System

There are three main components of your Hitachi-brand DSS system. They are the satellite antenna, the DSS receiver, and the remote control. Take a few minutes to read about each of these components.

The Hitachi Satellite Antenna

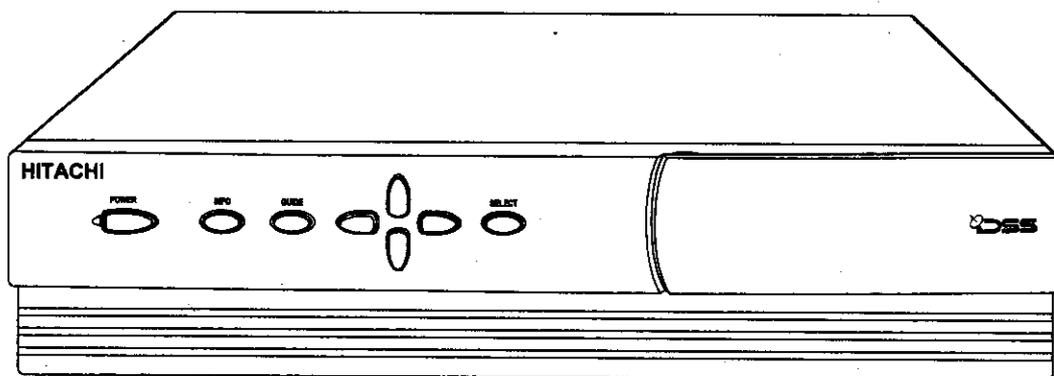


The satellite antenna is the component that receives the digital signals. It must be mounted to a solid outdoor surface that allows a clear view of the southern sky.

Depending on the system model you have chosen the carton will include an 18-inch steel or composite reflector, also known as a "dish" At the end of a tubular arm, there is a low noise block (LNB). Your system will have either a single LNB or a dual LNB. The single LNB has one connection, allowing use of a single DSS receiver. The dual LNB has two connections, allowing use of two DSS receivers or more if you are using a switching distribution box. The mounting bracket and base make adjustment easy during installation. Once the dish has been properly positioned to point to the satellite, you should never need to adjust it again. A companion document to this manual, *Satellite Antenna Installation Guide*, provides specific information for installing the Hitachi satellite antenna.

The Hitachi Digital Satellite Receiver

The Hitachi-brand DSS receiver is one of the smallest available. From the front panel keys almost every feature of your Hitachi receiver can be accessed.



The front of the Hitachi digital satellite receiver

Behind the door on the right side of the receiver is your access card. This special card contains information about your level of service and holds pay-per-view (PPV) purchase activity. This card should not be removed except to protect your DSS receiver from unauthorized use or to replace the card when a new one is supplied by your service provider.

The power key (**POWER**) is used to turn your DSS receiver on and off. The power light next to the power key will illuminate when the unit is on. Any off-air signal, such as cable TV or local programming, connected to the IN FROM ANT jack is passed through to the OUT TO TV jack when the power is in the off condition.

The information key (**INFO**) is used to display descriptions of programs and channels on your TV screen.

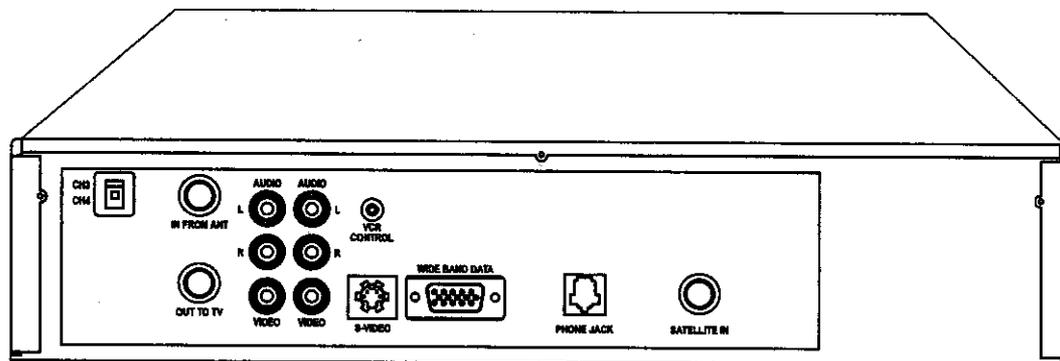
At any time, pressing the program guide key (**GUIDE**) will initiate the display of the **PROGRAM GUIDE**, where you can see a listing of all available programs.

The four directional keys, up (▲), down (▼), left (◀), and right (▶), are used to move the highlight around the program guide and menus. They also provide access to the Browse Banner and the Logo Banner when menus aren't displayed.

The select key (**SELECT**) is used to specify that a highlighted guide or menu selection is the one desired.



The DSS Access Card



The rear of the Hitachi digital satellite receiver

The rear of the Hitachi receiver has numerous jacks for connection to your audio/video entertainment system. You will also find the power cord permanently connected to the back.

The SATELLITE IN F-type jack is for connecting the cable from your satellite dish to your DSS receiver. Be sure that you use RG-6 cable only.

The IN FROM ANT F-type jack is an input where you can connect the cable from an RF terrestrial source such as an off-air antenna or cable TV service.

The OUT TO TV F-type jack is an RF output which you may connect to your TV or VCR (depending on your entertainment system). Note that the CH3/CH4 switch on the upper left enables you to select the channel for your TV on which the DSS programming appears.

The two pairs of phono-type AUDIO output jacks, labeled (L and R) and color coded to indicate left and right, can be used for connection to your TV, VCR, or audio system.

The two phono-type composite VIDEO output jacks are color coded in yellow. You may use either or both of these jacks for connection to your TV or VCR.

The multiple pin S-VIDEO jack is for high quality output of DSS video. You should use this jack to achieve the clearest picture for your TV or VCR. Only newer high-end TVs, SVHS VCRs and Hi8 VCRs support S-video type connections.

The special 15-pin WIDE BAND DATA port is intended for advanced applications such as broadcast data services when available. *Do not attempt to use this connector without a Hitachi-approved wide band data cable.*

The VCR CONTROL mini-jack is for connecting the VCR control cable that was included with your system. With this cable, your Hitachi satellite receiver can interface with most popular VCRs to record selected programs automatically. See the "Finding the VCR's Remote Control Sensor" section in Chapter 2, "Setting Up Your Hitachi Digital Satellite System" for proper placement of the transmitter end of the VCR control cable.

The standard RJ-11 modular PHONE JACK is for connecting your DSS receiver to your phone line. This phone connection is necessary to access certain program offerings from your service providers. Any calls generated by the DSS receiver are toll free. The telephone line connection should not normally interfere with your telephone operation. If you should need to make a call while it is calling in a report, simply disconnect the phone line from the DSS receiver.

The Hitachi Remote Control

Your Hitachi remote control can control a lot more than just the DSS receiver. It is what is known as a universal remote control, meaning that with it you can control many popular televisions, VCRs, and audio components. What's more is that with this state-of-the-art remote you have more control of your Hitachi digital satellite receiver than with any other brand available today!

Before we get into the features, you should know that the Hitachi remote control is available in two models. One can control components including DSS, TV, cable boxes (CBL), and VCRs. The other can control these devices, as well as many amplifiers (AMP), compact disc players, and laser disc players (DISC).

The remote control uses invisible infrared light to send signals to your components when you press the keys. You must aim your remote toward your component for it to receive the command.

Descriptions and details of each individual key will be given throughout this manual as they apply, although an overview follows.

The mode keys across the top enable you to specify the device that you intend to control. This is important as many devices share the same keys—such as the **POWER** key or the numeric keys.

The windowed keys are labeled through clear keys. There are three sets of labels, which can be positioned under the clear key simply by sliding the switch on the side of the remote control. When the switch is in the top position, the keys are for the Hitachi QuickTune™ feature enabling access to your nine most preferred channels at the press of a key. When the switch is in the middle position, the keys are for DSS control features. When the switch is in the lower position, the keys become additional mode keys labeled to support VCRs (and possibly amplifiers labeled AMP and disc players labeled DISC). Note that the three keys (circle, triangle, and square) at the top of the windowed DSS page perform no function and are provided for features in future DSS products.

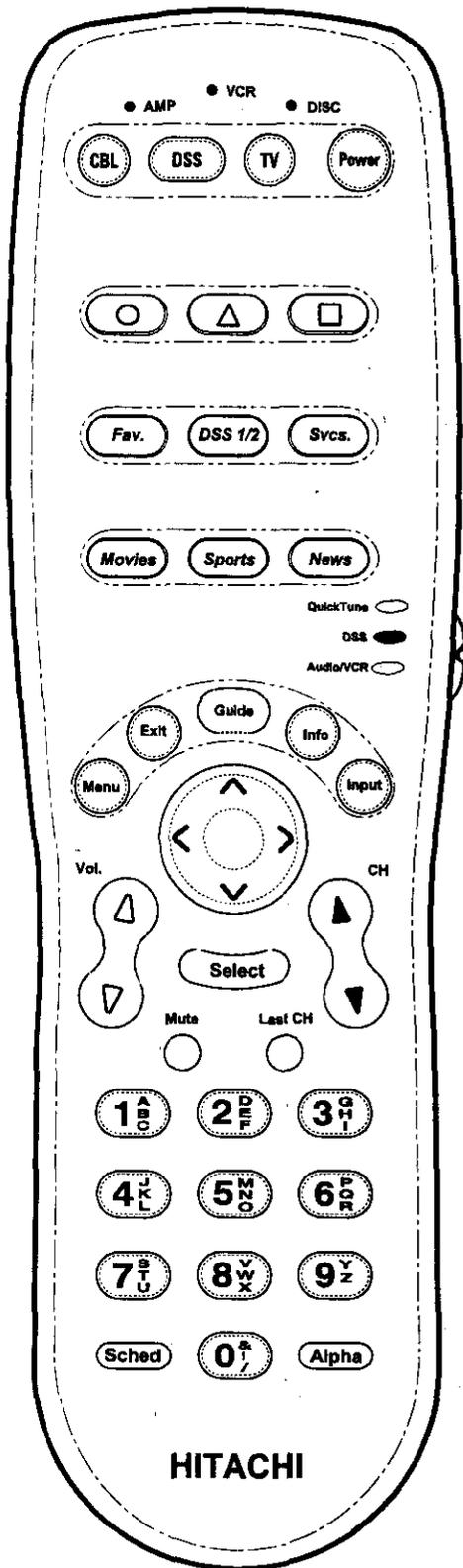
The arch of keys immediately below the windowed keys are frequently used functions. These keys include main menu (MENU), exit (EXIT), program guide (GUIDE), information (INFO), and input (INPUT).

The directional pad is four keys in one. Gently rocking this key in a direction will cause the on-screen highlight to move in the direction in which it was pressed. The key positions will be referred to in this manual as <, >, ^, and v.

The select key (SELECT) is one of the most important keys. Pressing the SELECT key will indicate to your DSS receiver that you wish to choose the highlighted item. Also, pressing SELECT will initiate the display of the PROGRAM GUIDE when you are watching DSS programming.

The remaining keys are some DSS-specific keys and common device keys including numbers, channel up and down, etc. The functions of these keys change depending on the currently selected device.

Please refer to Chapter 3, "Controlling The Hitachi-brand DSS Receiver" for more remote control capabilities and Chapter 9, "Programming Your Hitachi Remote Control" for teaching your Hitachi remote control about your other audio/video components.



The Hitachi Remote Control

SETTING UP YOUR HITACHI DIGITAL SATELLITE SYSTEM

CHAPTER

2

Don't Panic—It's Easier Than You Think

Setting up your new Hitachi digital satellite system is much easier than assembling a train set or a bicycle. You should be watching DSS programming in a very short time!

This chapter provides step-by-step instructions for setting up your Hitachi digital satellite system and connecting it to your television or entertainment system. As you are reading this now, it is assumed that you have already opened and unpacked the box.

The receiver carton includes the receiver itself, an Access Card (already installed in the receiver behind the door), a remote control with four AAA batteries, a 6-foot length of coaxial cable, a 25-foot length of telephone cord, a 6-foot A/V cable, a VCR Control cable, and this manual. Some models may also include an S-video cable. Contact your dealer if any part is missing or damaged. Please save all packing materials until the installation of your system is complete in case anything needs to be returned.

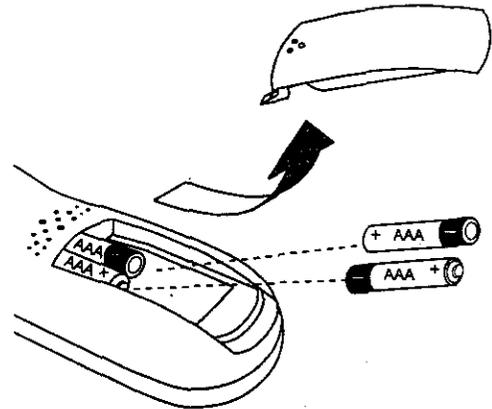
You now need to decide where you want to place your DSS receiver. Avoid installing the receiver in a location where the power cord or cables could be inadvertently disconnected. Obviously, choose a place near your TV. The location should also be well ventilated. Do not set electronic components or other objects (including this manual) on top of the receiver or block its cooling vents.

If you have not already installed your DSS dish and run the cable to your DSS receiver area, you should do so now. It is recommended that you have your dish professionally installed. This is due to safety issues, electrical codes, and assurance of a quality installation. **If you should choose to perform the installation yourself, please pay special attention to the precautions in the front of this manual and refer to the *Satellite Antenna Installation Guide* that accompanied your DSS antenna.** You may also want to obtain the *Hitachi Do-It-Yourself DSS Installation Kit*, sold separately.

Installing Batteries in Your Remote Control

Before you can use your remote control, you must install the supplied AAA batteries. First, slide the battery cover from the back of the remote control. Install each fresh battery as shown, making sure that the + and - on each battery line up with the marks in the battery compartment. Next, slide the cover back onto the remote control. Finally, press the **DSS** key on the top of the remote control to verify that the key lights up, indicating that it is operating properly. If the key doesn't light, make sure that the batteries are fresh and that each is inserted in the right direction.

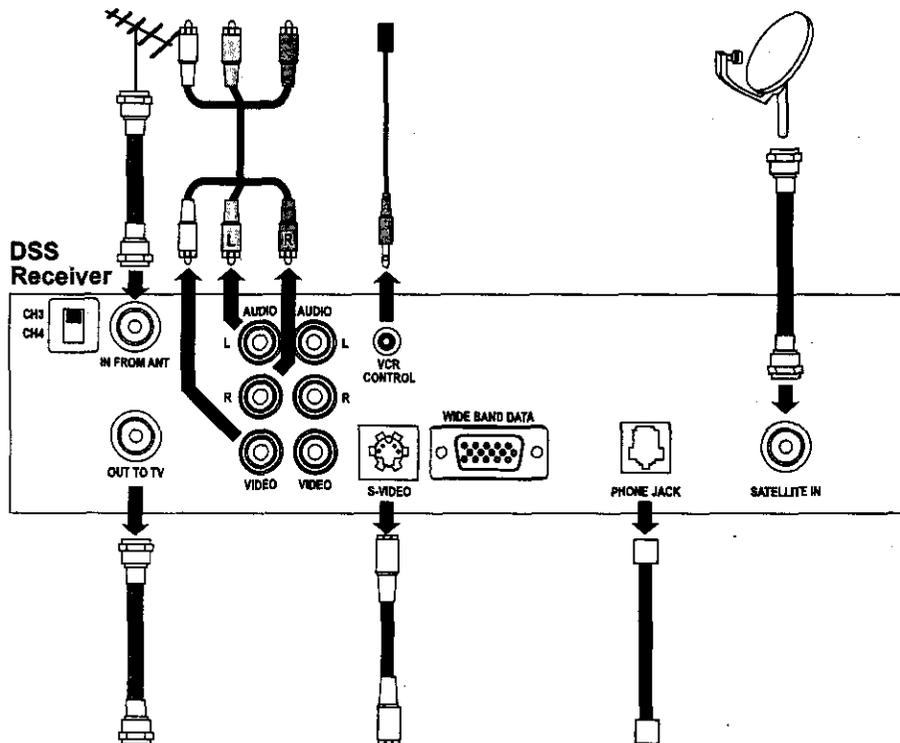
Refer to Chapter 9, "Programming Your Hitachi Remote Control" for setting the codes to control the devices in your entertainment system.



Remove the battery cover and insert four AAA batteries as shown

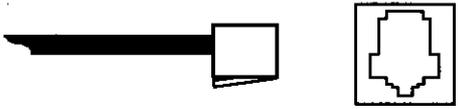
Choosing the Best Connection for Your Entertainment System

There are a number of ways to connect your Hitachi digital satellite receiver, depending on the other audio/video equipment you wish to use. We will show you the simplest hookups.



The possible connections

Before choosing the best connection for your entertainment system, you should connect the phone line. This can be done by plugging one end of the provided telephone cable into the PHONE LINE jack on the back of your DSS receiver and the other end into a telephone wall jack. If you do not have a telephone jack within reach, contact your local phone company to arrange for a new jack to be installed or reorient your DSS receiver to be within reach of a telephone wall jack.



PHONE JACK

The Phone line and jack

To suit specific needs, you may need to purchase additional connectors and/or cables. These are available from your dealer or electronic hardware stores. Choose which hookup method to use based on:

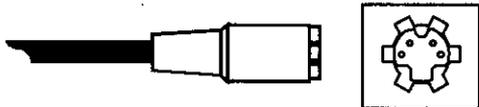
- Your TV's and VCR's capabilities
- Your desire to pass local programming through the DSS receiver
- Any other devices you want to include in the system (stereo, second VCR, etc.)

We will guide you through the decision and connection process. But first, position yourself or your equipment so that you are looking at the backs. Note the various input and output receptacles, their shapes, and how they are labeled. Then read through the rest of this hookup section before proceeding to an actual hookup.

Do not turn on the power yet. For your safety, leave your DSS receiver, TV, VCR, and any other devices to be connected unplugged while hooking them up.

Hook Up the Audio/S-video Signals

Only the newest, high-end TVs and VCRs have S-video inputs. VCRs that support S-video include Hi8 and SVHS types. Look on the back of your TV and VCR for this special jack. It will be labeled something like S-VIDEO IN. If you are unsure, you can see the type of connector that you are looking for on the back of your DSS receiver. If neither, the TV or VCR, has this jack, proceed to the "Hook Up the Audio/Video Signals" section.



The S-video cable and jack

This video hookup will give you a sharper picture than either of the other hookups. Also, this hookup will allow you to view DSS programming and local broadcast simultaneously on TVs that offer a "picture in picture" (PIP) feature.

When using this hookup, you cannot use the DSS receiver as a switch to choose between DSS programming and local broadcasts. You will use the input selection that your TV and/or VCR offers to select the source.

If your VCR has S-video input...

use an S-video cable to connect the DSS receiver's S-video output to the S-video input on your VCR. Also connect one pair of the DSS receiver's audio outputs (Left and Right) to the audio inputs on your VCR.

If your TV has S-video input...

connect an S-video cable from the S-video output (either from the DSS receiver if available or the VCR) to the S-video input on the TV. Also connect the left and right audio outputs from the same device that the S-video is coming from and connect them to the TV.

If you have a stereo system...

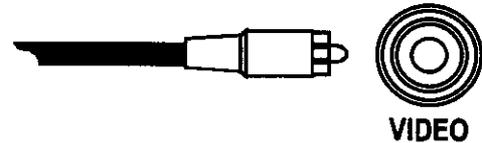
you may be able to achieve big speaker sound. See the "Hook Up to a Stereo System" section for the necessary connections.

If your hookup is complete...

move on to the "Finishing Up" section.

Hook Up the Audio/Video Signals

Most high-end TVs and VCRs have phono-type audio and video inputs. Look at the back of your TV and VCR for three jacks—possibly color coded yellow, white and red. They will be labeled something like IN (L and R), AUDIO IN, and VIDEO IN. If you are unsure, look at these connectors on the back of your DSS receiver. If you have no jacks like these on your TV or VCR, skip this hookup and proceed to the "Hook Up the RF Signals" section.



The phono-type video cable and jack

This video hookup will give you a clearer picture than an RF hookup. Also, this hookup will allow you to view DSS programming and local broadcast simultaneously on TVs that offer a "picture in picture" (PIP) feature.

When using this hookup, you cannot use the DSS receiver as a switch to choose between DSS programming and local broadcasts. You will use the input selection that your TV and/or VCR offers to select the source.

If your VCR has a video input...

use an audio/video cable to connect one of the DSS receiver's video output to the video input on your VCR. Also connect one pair of the DSS receiver's audio outputs (Left and Right) to the audio inputs on your VCR.

If your TV has a video input...

connect an audio/video cable from the video output (either from the DSS receiver if available or the VCR) to the video input on the TV. Also connect the left and right audio outputs from the same device that the video is coming from and connect them to the TV.

If you have a stereo system...

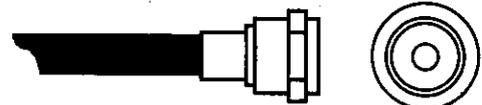
you may be able to achieve big speaker sound. See the "Hook Up to a Stereo System" section for the necessary connections.

If your hookup is complete...

move on to the "Finishing Up" section.

Hook Up the RF Signals

Look at the back of your TV and VCR for RF inputs. These could be labeled something like 75-OHM, 300-OHM, CABLE, FROM ANTENNA, VHF or UHF. These could appear either as a pair or screws or a F-type connector as on the back of your DSS receiver.



The RF cable and jack

If your TV or VCR does not have threaded F-type connectors you will need to obtain adapters which convert the round F-type RG-6 or RG-59 cable to the connectors on your TV and or VCR. These are sold separately and should be available from your dealer or an electronics hardware store.

To connect your VCR...

use a coaxial cable to connect the OUT TO TV from your DSS receiver to the RF input section on your VCR. This is the first place where an adapter may be needed if your VCR doesn't have the F-type connector.

To connect your TV...

connect a coaxial cable from the RF output (either from the DSS receiver's OUT TO TV if available or the VCR) to the RF input on the TV.

Set the channel 3/4 switch on the back of your DSS receiver to the channel that is not broadcast or has the weakest signal in your area. This will be the channel that you need to set your TV and/or VCR to for viewing or recording DSS programming.

You can also use your DSS receiver as a switch to select between DSS programming and local broadcasts. This can be accomplished by pressing the **INPUT** key while the remote is in DSS mode. Also, you must connect your local signal, either from an antenna or cable service, to the IN FROM ANT on the back of your DSS receiver. If your antenna wire is not RG6 or RG-59 you will need an adapter as described earlier.

If you have a stereo system...

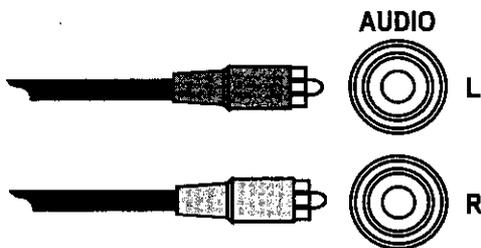
you may be able to achieve big speaker sound. See the "Hook Up to a Stereo System" section for the necessary connections.

If your hookup is complete...

move on to the "Finishing Up" section.

Hook Up to a Stereo System

To achieve high quality sound from your DSS receiver through a stereo system, simply connect one of the AUDIO outputs (Left and Right) to an available input on your audio system. This input may be labeled something like VIDEO, AUX, or, if you aren't using a compact disc player or laser disc player, you can use one of these inputs, if available. The only input that you should not use is one that is specified for a turntable/phonograph.



The phono-type audio cable and jack

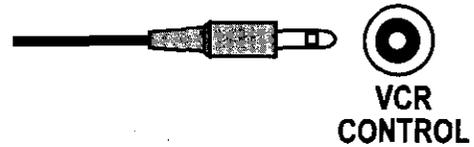
Finishing Up

You can mix and match the different hookups described above to suit your entertainment system's available connections. For example, you could connect the VCR using audio/video, while the TV is connected with the RF signal. Always try to achieve the highest quality and greatest flexibility available.

Once all connections have been completed, plug in the TV and VCR to the wall outlet, appropriate extension cord, or surge protector. See *Important Safety Instructions* described in the front of this manual.

Connecting the VCR Control Cable

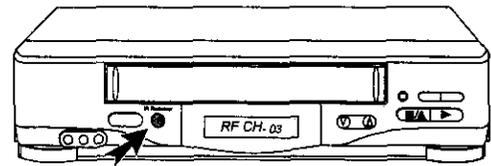
With the proper connections your DSS receiver can control your VCR for unattended recording. First, you will need to plug the VCR Control cable into the back of your DSS receiver. Then proceed to the next section to determine where the other end of this cable should be attached.



The VCR Control cable and jack

Finding the VCR's Remote Control Sensor

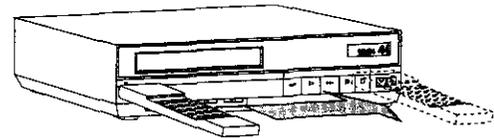
So that your Hitachi digital satellite receiver can control your VCR the emitter end of the VCR control cable must be attached where the VCR's remote control sensor is located. On some VCRs this is labeled. You may also find a diagram in your VCR's manual indicating the sensor position. It is commonly identifiable by a small dark red plastic window. For reference, see the sensor on your DSS receiver located behind the flip-down door.



Look for indications of the remote control sensor

If the sensor is not labeled or documented, you will need to scan the front of your VCR with your VCR's remote control. Use the following procedure to accomplish this:

- Hold the VCR's remote control about 1/2-inch from the front left side of your VCR.
- Slowly move the remote control to the right repeatedly pressing the remote control's power key on and off.
- Once your VCR responds to your pressing the remote control power key, note the position. This should be the location of your VCR's remote control sensor.



Scanning for the remote control sensor

Once the sensor position has been determined, attach the emitter to the area with a piece of tape. This is temporary until the system can be tested. Refer to the "VCR Setup" section in Chapter 7, "Your Hitachi Receiver's Setup Menu" to program and test the VCR Control feature.

Upon verifying that the VCR Control is functioning properly you can remove the tape and permanently attach the emitter using the peel-and-stick backing. This attachment should not interfere with normal VCR operation.

Now You Can Turn It On

Once you have connected everything, you can turn everything on. Turn the TV on and set it to the DSS channel (3 or 4) or input (video or S-video). Do the same for the VCR, if applicable. Now turn your DSS receiver on. You will see the start-up screen for several seconds, followed by a black screen with the message:

"Searching for signal. Press **SELECT** for related utilities."

at the bottom of the screen. If so, this is good! If not, try pressing the **INPUT** key while the remote control is in DSS mode or check all of the connections.

You're well on your way to enjoying your Hitachi digital satellite system.

CONTROLLING THE HITACHI-BRAND DSS RECEIVER

CHAPTER

3

Now It is Time for You to Take Control!

You are the master of your Hitachi digital satellite receiver. It does what you tell it to. Take a few minutes to read through this chapter to begin to understand how to “drive” your system.

Let's begin with a few simple rules. First, there is nothing that you can do, using the front panel keys or the remote control keys, that could harm your DSS receiver in any way. Once you understand the capabilities and options available in your receiver, you'll be able to undo any changes or settings that you make.

The next important rule is to have fun! The features of your Hitachi-brand DSS receiver are intended to make watching TV more enjoyable. It isn't necessary to know everything your system can do right away. Learn the capabilities a little at a time. As you use your DSS receiver, the techniques to control it will become second nature.

Front Panel vs. Remote Control Keys

The front panel provides all of the basic controls needed to access and use the primary features of the DSS receiver. The remote control has many more keys to provide shortcuts or access to extended features of the DSS receiver. Most of the remote control keys can also be used to control other components in your entertainment system. For this reason, you must remember to press the **DSS** key, putting the remote control in DSS mode, when you want to control your DSS receiver. When the remote control keys are pressed, the device key for which the signals are being sent will light.

Basic Navigation

The most common DSS-related keys that you will use are **^**, **v**, **<**, **>**, and **SELECT**. The direction keys are represented by four distinct keys on the DSS receiver front panel, or with a single pad on the remote control. These keys are primarily used to move the highlight (also known as a cursor) around the screen. The **SELECT** key should be pressed to indicate that a highlighted item is the one that you wish to choose.

Another key you will be using frequently is the **GUIDE** key, located on both the front panel of the DSS receiver as well as on the remote control. This key is used when you want to display the **PROGRAM GUIDE**. Once you are in the guide, pressing the **GUIDE** key while a program title is highlighted will display any available description text at the top of the screen.

One additional key that appears on both the front panel and the remote control is the **INFO** key. This key is used to retrieve descriptive information about a currently airing event and to provide access to scheduling information (and purchasing information for PPVs) about highlighted programs in the **PROGRAM GUIDE**.

The final key that appears on both the remote control and the front panel is the **POWER** key. Make sure the remote control is in DSS mode for the **POWER** key to apply to the DSS receiver. When you power the DSS receiver off, it has not actually stopped using electricity. Rather goes into a standby condition that enables it to continue to monitor data being sent from the service providers, call in status reports to the service providers, start and stop a VCR for programs you have scheduled, receive messages, and perform other background activities. The only apparent changes that occur in the standby condition are that the video is shut off, the IN FROM ANTENNA connector signals are passed through to the OUT TO TV connector, and the power light is off.

There are three keys on your remote control that you will likely use frequently. They are **Fav.**, **EXIT**, and **INPUT**.

After you have established favorite channel lists, as described in Chapter 6, "Your Hitachi Receiver's Main Menu," you will want to cycle through these lists quickly and easily. This is accomplished by pressing the **Fav.** key. Each press will advance to the next list which contains channels. After stepping through the favorite lists it will cycle back to "All Channels."

At any time, you can exit the **PROGRAM GUIDE** or menus through on-screen navigation, working your way back to the **MAIN MENU** and selecting *Exit to Viewing*. This can be time consuming, so a much quicker way is to press the **EXIT** key.

The **INPUT** key is only of use in the DSS mode if your DSS receiver is connected to your entertainment system through RF, rather than video or S-video. If you are using RF, pressing the **INPUT** key will switch the output between DSS programming and local broadcasts similar to the way the **POWER** key works. The reason that you may want to have local broadcasts passed through but not turn the DSS receiver off is so you can watch or record local broadcasts while recording or watching DSS programming through the A/V connectors.

With knowledge of these few keys you should be able to navigate through almost every Hitachi-brand DSS receiver feature and menu.

POINTING YOUR HITACHI SATELLITE ANTENNA

CHAPTER

4

One Spot—22,300 Miles in Space—and You'll Find It

There's a cluster of satellites way out there in space, and just as a telescope is pointed at a star, you need to point your dish at the satellites.

In this chapter we will explain how and where to point your satellite dish. If you see the message:

“Searching for signal. To access related utilities, press **SELECT**.”

press the **SELECT** key. Otherwise, press keys in the following order to navigate to the **DISH POINTING MENU**:

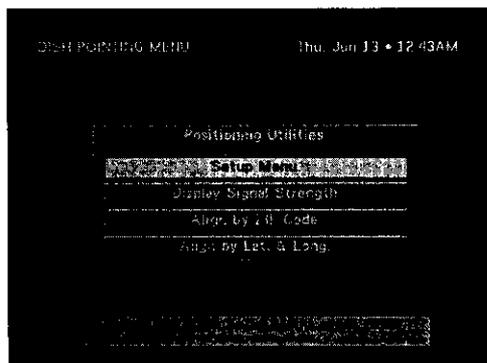
- **MENU** to display the **MAIN MENU**
- **^**, **v**, **<**, or **>** to move the highlight over the *Setup Menu* button
- **SELECT** to display the **SETUP MENU**
- **^** or **v** to move the highlight over the *Dish Pointing* button
- **SELECT** to display the **DISH POINTING MENU**

Determine Where to Point Your Satellite Dish

The DISH POINTING MENU

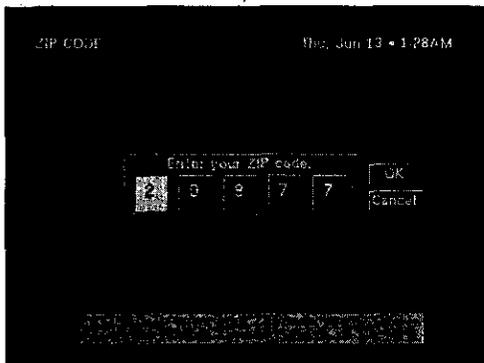
When you press **SELECT** you will be whisked into the menu that assists you with dish pointing and signal strength utilities. Since you may have never used the Hitachi-brand DSS system before, we'll go slow at first. But pay attention; you are starting to learn how to navigate the menus.

The first thing to decide is whether you know where you are by your ZIP code or by your latitudinal and longitudinal position. Press the **v** key on the remote control or receiver front panel until your preferred selection is highlighted. Then press **SELECT**.

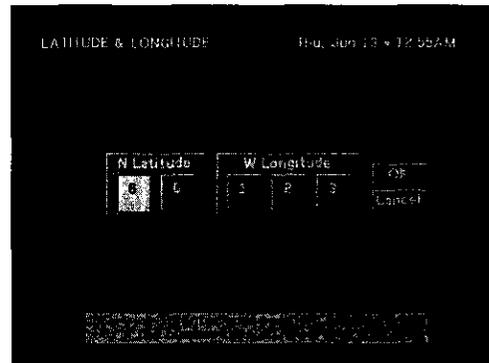


The DISH POINTING MENU

The ZIP CODE and LATITUDE & LONGITUDE Screens



The ZIP CODE screen



The LATITUDE & LONGITUDE screen

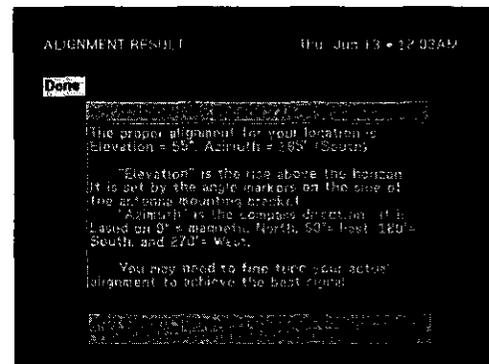
You will now see one of the above screens. Enter your location. If you are using the remote control, press the **DSS** key, followed by the five appropriate digits. From the remote control or receiver front panel you can also use the **^** or **v** keys to increase or decrease the highlighted digit value, and the **>** key to advance to the next digit. Use the **<** key to back up to correct any mistakes. When you are finished, the highlight should be on the button labeled **OK**. Press **SELECT** to continue.

ALIGNMENT RESULT Screen

The **ALIGNMENT RESULT** will be displaying the proper elevation and azimuth for pointing the dish calculated from the location you entered. Elevation is the up and down positioning, similar to nodding your head “yes.” Azimuth is the left to right positioning, similar to shaking your head “no.” You should take a moment to write down the elevation and azimuth numbers.

ELEVATION: _____ AZIMUTH: _____

The values displayed are fairly accurate; however some fine tuning may be necessary. Use these values when choosing a mounting location for your satellite dish, remembering that you will need an unobstructed view in that direction.

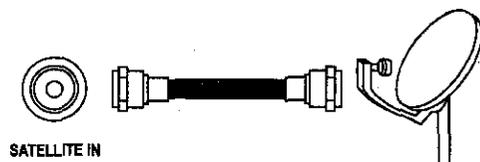


The ALIGNMENT RESULT screen

Before proceeding, your DSS antenna should be installed. If this has not already been done, please see the *Satellite Antenna Installation Guide* for instructions, or contact a professional installer. From this point forward in this document we will assume that your dish has been mounted, the cable has been run from the dish to your receivers location.

Connecting the Satellite Dish

You must connect the satellite antenna cable to receive a signal. *You should unplug your DSS receiver from the power outlet prior to making this connection.* Once the antenna has been mounted and the DSS cable has been run from the antenna to the receiver you are ready to monitor the signal strength while

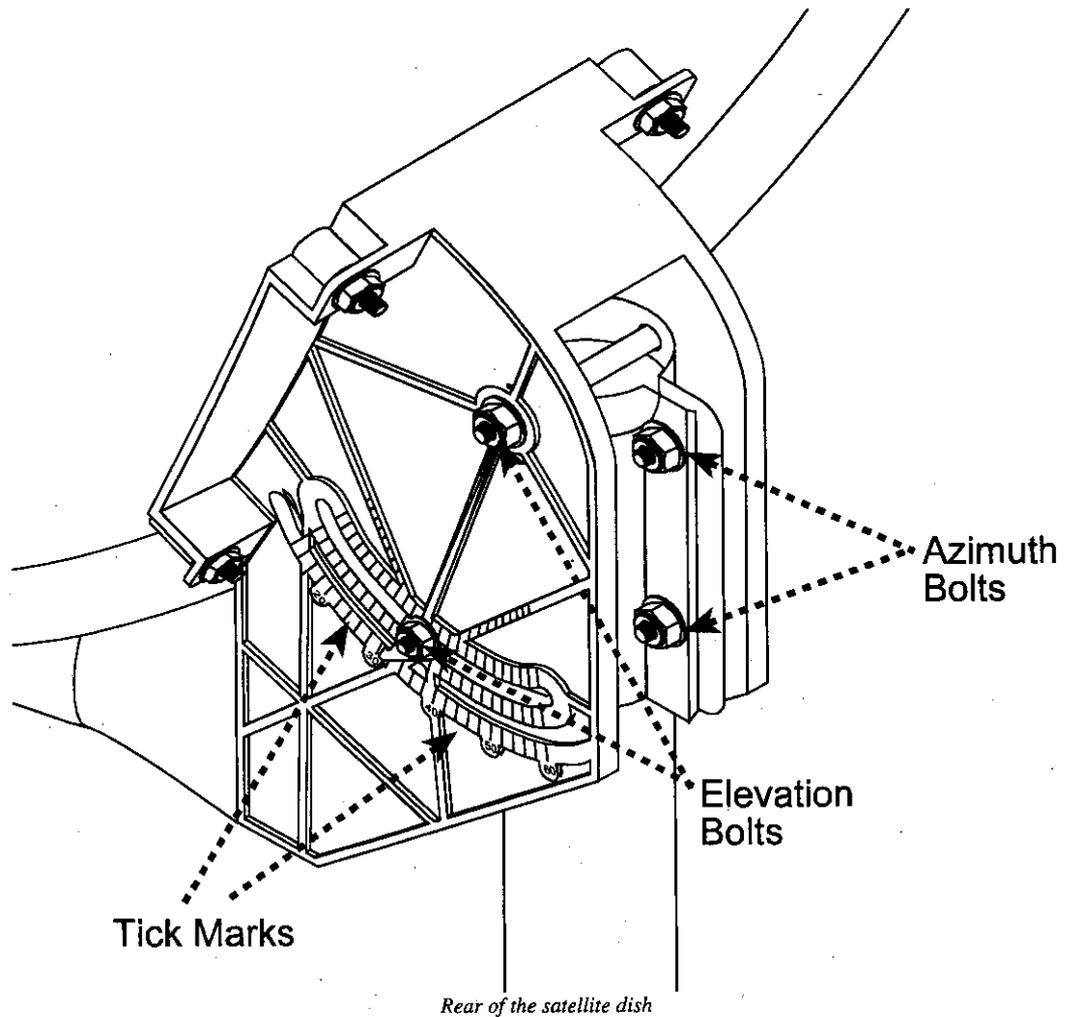


Connecting the satellite antenna cable

adjusting the dish pointing. Now you can plug your DSS receiver into power again.

Positioning the Satellite Dish

To loosen and tighten the antenna's bolts, you will need a 7/16-inch wrench (not included). A compass will also be needed to establish the initial direction to point your satellite dish.



We'll begin by adjusting the elevation. First, loosen the nuts securing the two (one on each side) elevation bolts just enough so that you can easily tilt the reflector up and down. Next, line up the elevation indicator with the tick mark corresponding to the elevation calculated earlier. Finish adjusting the elevation by lightly tightening the bolts when the indicator is aligned with the correct tick mark. Make sure that the dish doesn't slip out of position while you are tightening the bolts.

Next, we'll adjust the azimuth. For this part of the procedure, a compass (such as the one included in the *Hitachi Do-It-Yourself DSS Installation Kit*) will make it possible to point in the proper direction. This is done by first loosening the two azimuth bolts just enough in order to turn the antenna smoothly with a little pressure. Stand behind the antenna reflector and, while grasping the outer edges of the reflector, rotate the antenna until it is pointing toward the azimuth value determined earlier. Be sure that as you do this you do not lean on the reflector, as that would affect the alignment. Don't tighten the bolts just yet!

In the following procedure you will be referring to the meter on the **SIGNAL STRENGTH** screen. If this screen is not currently displayed, press the **POWER** key, shutting the system down, and then press the **POWER** key to start the system up again.

If you see a black screen with the message:

“Searching for signal. To access related utilities, press **SELECT**.”

press the **SELECT** key. Otherwise, press keys in the following order to navigate to the **DISH POINTING MENU**:

- **MENU** to display the **MAIN MENU**
- **^**, **v**, **<**, or **>** to move the highlight over the *Setup Menu* button
- **SELECT** to display the **SETUP MENU**
- **^** or **v** to move the highlight over the *Dish Pointing* button
- **SELECT** to display the **DISH POINTING MENU**

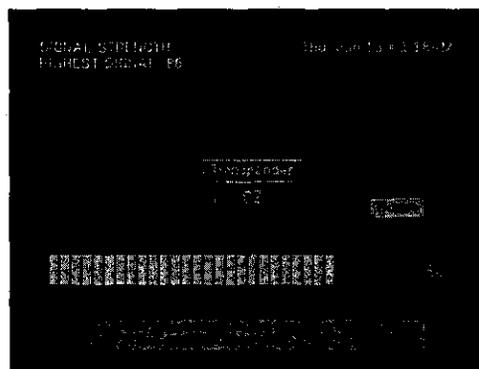
Now highlight the *Display Signal Strength* button and press the **SELECT** key. You should see a meter displaying your signal strength.

The SIGNAL STRENGTH Screen

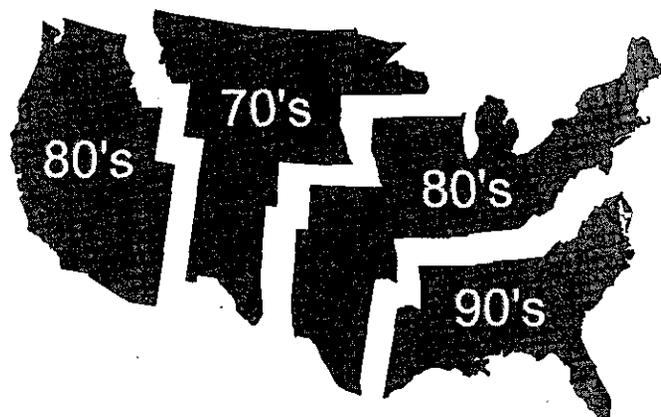
The **SIGNAL STRENGTH** screen is displayed. It shows the quality of the signal that you are receiving. Because you have not adjusted the pointing of your satellite dish, you probably have a signal strength of 0. To let you know that it is “looking,” you should hear a short beep every few seconds.

Even though a signal strength of 50 will give you the same high-quality picture and sound as a reading of 90, you should maximize your signal as much as possible, because rain or snow can cause the signal strength to drop significantly. This signal reduction is known as “rain fade.” As soon as the signal can penetrate the rain cloud or snow, your picture will return automatically.

Assuming that your dish was mounted and initially pointed correctly, there will be some degree of signal. A numeric value for the strength ranges from 0 to 99. A reading of 0 means that no signal is being received. While your signal strength may vary, refer to the following map to determine the signal strength goal for transponder 02 for your area:



The **SIGNAL STRENGTH** screen



Typical signal strength results. Your actual signal strength may vary.

You may choose to try different transponders. Each transponder transmits multiple programs at a time. The transponder displayed when entering the screen represents the one associated with the last viewed program (or "02" if no program has been viewed). By moving the highlight to the transponder area, you can enter a number from 01 to 32. Different transponders may show varying signal strengths. This is not indicative of any problem unless the variations are extreme (such as 40 and 90). In the event of signal reception problems, customer service representatives may ask for information such as signal strength on a different transponder. Do not change transponders trying to find the best signal since the transponder will automatically change to the one that corresponds with the DSS channels that you view.

Fine Tuning the Antenna Alignment

Now it's time to make the adjustments to your satellite dish. It will be easiest to fine tune your dish with someone else's assistance, calling out the signal strength while you make the adjustments. Optionally, you can turn up the volume of your TV so that you can hear the beeps while you make adjustments. When there is no signal, beeps will occur every few seconds so that you know it is searching. As the signal strength increases, the beeps will become much more rapid.

1. If no signal is present, stand behind the dish and, by grasping the outer edges of the reflector, adjust the azimuth by *slowly* turning the antenna a very small distance to the right while noting the signal strength for indications that you are receiving a signal. Continue turning the antenna in this way until you have acquired a signal or until you have rotated the antenna approximately 15 degrees from the starting point. If you acquire a 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 a signal, go to step 6; otherwise, go to step 3.
3. If you are unable to acquire the satellite signal after rotating the antenna 15 degrees to either side of the calculated azimuth value, loosen the elevation bolts and tilt the antenna upward so that the elevation indicator moves half the distance from the current tick mark to the next tick mark. Then tighten the elevation bolts.
4. Repeat steps 1 through 3 until you receive a signal. If you acquire the 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 a signal. After tilting the antenna upward 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 this process until you receive a signal.

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

- Verify that there are no obstructions such as trees, buildings, etc., blocking the signal.
 - Verify that you are using the proper cable type (RG-6) between the dish and the receiver. Also, be sure that the connections are tight and the center wire in the cable extends about 1/8th-inch beyond the end of the connector.
 - Verify that the azimuth and elevation values that you determined earlier are correct for your area.
6. Gently continue turning the antenna reflector a small amount as you were turning it when you began receiving a signal. Pause a few seconds each time after moving the antenna.

Continue to turn the antenna in this fashion until the signal strength meter reaches the highest possible reading.

7. Tighten the azimuth bolts.
8. Loosen the elevation bolts.
9. Slowly tilt the antenna up and down to try to 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 your dealer or Hitachi at 1-800-477-1212.

Authorizing Your Service

The antenna is now installed and properly adjusted to receive signals. To confirm this, you should be able to receive promotional channels from both DIRECTV and USSB. If you can receive promotional channels, you can now arrange to receive your DSS programming 24 hours a day, 7 days a week, at the following numbers:

DIRECTV 1-800-DIRECTV (347-3288)

USSB 1-800-204-USSB (8772)

DIRECTV offers a variety of programming packages to fit most any budget. Enjoy your favorite news and entertainment networks including A&E, CNN, The Disney Channel, AMC, TCM, TBS, USA Network, The History Channel, and the Sci-Fi Channel. Movie lovers will enjoy two STARZ! premium movie channels and the Independent Film Channel in addition to seven channels of movies by theme from Encore. The music lover will enjoy MuchMusic, TNN, CMT and over 30 Music Choice channels with commercial-free CD-quality music for all tastes. For the sports enthusiast, add the Golf Channel, three new sports networks, and over 18 out-of-market regional sports networks showing exciting collegiate action. Real sports fans may choose from several season ticket options including the NFL Sunday Ticket, NBA League Pass, NHL Center Ice, MLB Extra Innings, ESPN/ABC Sports college football, and ESPN Full Court college basketball. Direct Ticket PPV is like having a video store right in your living room with access to up to 60 channels of movies, sports and live special events starting as often as every 30 minutes.

USSB is the home for America's favorite networks. You'll enjoy channels filled with blockbuster movies, great kids shows, non-stop comedy, the most current selection of music videos and original programming. And your first month is absolutely free! With the most popular basic and movie networks including five different HBO channels, three different Showtime channels, three different Cinemax channels, two different channels of The Movie Channel, and FLIX. Add to that the widely recognized names in music video, MTV and VH1; the number one network for kids, Nickelodeon; the only 24-hour comedy network, Comedy Central; programming for women, Lifetime; and classic TV with TV Land. Top off the programming with Big Event PPV sporting events and concerts and you have great entertainment for the whole family.

There is no programming duplication between the two service providers. Subscribe to both, DIRECTV and USSB, to enjoy over 200 channels of digitally delivered sports, movies, news, and family entertainment. Check with the service providers regarding details of current offerings and packages that may be available to you.

WATCHING DSS PROGRAMS ON THE HITACHI RECEIVER

CHAPTER 5

So Many Choices—So Many Ways to Choose

Let's face it. You got your Hitachi digital satellite system because you wanted lots of programming choices! In this chapter you will learn many different ways to find the programs you want to watch.

The first thing that you should know is that channels in the DSS world are arranged differently than you have probably experienced before. The lowest channel number is 100; the highest is 999. Channels are grouped by the hundreds. The following chart lists these groupings:

PPV	General	DIRECTV Sports	Adult	Music	USSB All
100-199	200-299	300-399	400-499	500-599	900-999

Basic Channel Changing

There are many ways to “surf” through the available programming. Anyone who has ever used a remote control TV already knows at least two ways to change channels. The first of these is by using the **▲** and **▼** keys. Each key press takes you to the next available channel in the direction that you selected. The second way assumes that you know the number of the channel you want. For example, to go to the Direct Ticket movie previews, simply press **1000**. Or to watch the USSB preview channel, press **999**. You can enter the three-digit channel number for any channel you wish.

The Channel Banner

This is a good time to explain the banner that you see at the top of the screen every time you tune to a channel. You can display the Channel Banner at any time by pressing the **INFO** key or clear it before it times out by pressing **EXIT**.



The Channel Banner

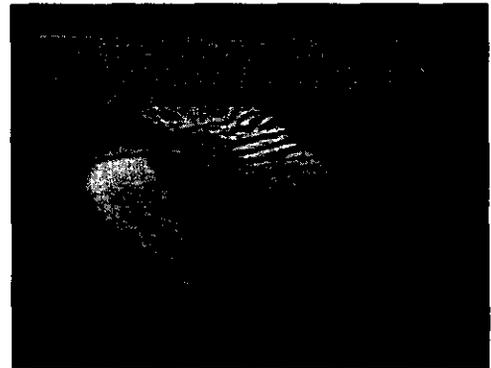
This banner contains information about the program. This includes the program start and end times, program title, program rating, channel call sign or logo, channel number, and program or channel-related symbols where applicable. Symbols, as shown in the following chart, could include alternate audio, data, new mail, can't tape, closed caption, and/or the lock status. See the section called “Alternate Services” later in this chapter for information on accessing alternate audio or data services.

DATA SVCS.	ALT. AUDIO	CC	NEW MAIL	Lock	Unlock	CAN'T TAPE
Data services available	Alternate audio available	Closed captioning available	Received new mail	Limits and Lists enforced	Limits and Lists overridden	Recording not permitted

Additional information displayed in the banner includes the current date and time, and current favorite list.

The Information Banner

Pressing the **INFO** key a second time while the Channel Banner is on will replace the information with any available description of the current program. This is called the Information Banner. Either of these banners will go away after a few seconds, or you can press the **EXIT** key to clear it on demand.

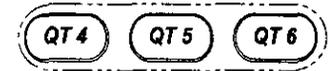
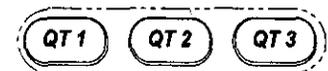


The Information Banner

Now let's get back to the different ways to change channels.

QuickTune™

QuickTune is to your Hitachi-brand DSS receiver what speed-dial is to a telephone. It is a fast, easy way to jump directly to any one of nine channels that you specify. To use the QuickTune feature, slide the mode switch located on the right side of your remote control to the "QuickTune" position. You will see the labels QT1 through QT9. When you press one of these keys, one of two possible actions can occur. If the key has been programmed, your DSS receiver will change to the associated channel. Otherwise, if the selected QT key has not been programmed, the **QUICKTUNE SETUP** screen will appear. From the **QUICKTUNE SETUP** screen you can program the key to any available channel. See Chapter 7, "Your Hitachi Receiver's Setup Menu" for information on changing the channel number associated with each of the QuickTune keys.



The QuickTune keys

AlphaTune™

AlphaTune enables you to tune to a channel by spelling a channel's call sign rather than by number. To enter the AlphaTune mode, you must first press the **ALPHA** key located on the lower right on the keypad. The **ALPHA** symbol appears on the screen. You can now enter the numbers and letters (located on each of the number keys) to spell the desired channel call sign. For example, to tune to ESPN, press **ALPHA 2 7 6 5**. Or to tune to HBO, press **ALPHA 3 1 5** **SELECT**. All special symbols (i.e., &, /, +, !, etc.) are located on the **0** key. Symbols are used for channels such as "E!" and "A&E." As soon as the receiver can determine which channel you are seeking, it will tune to it automatically, and no additional keys need to be entered. If the channel call sign is fewer than four letters, you may need to press **SELECT** to indicate that you are finished. If more than one channel shares the same set of keys (i.e., "CNN" and "COM"), the next matching occurrence is used. If that was not the channel you wanted, just repeat



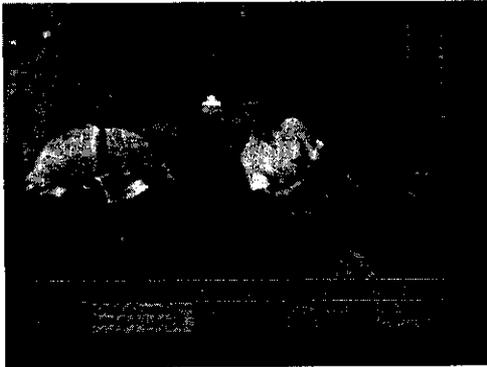
The keypad

the process again to find the next occurrence of that key sequence. It is important that you enter the channel call sign exactly. With experience, you will become more familiar with the channel name abbreviations that are used.

There are a few more ways to change channels while watching a program. The Browse Banner and the Logo Banner let you see what's on another channel without leaving the channel you are on. If the other channel looks more interesting, go there by pressing **SELECT**.

The Browse Banner

Sometimes you're curious if there's something better on another channel, but you don't want to miss what you're currently watching to take time to look. That's where the Browse Banner comes in. Simply press **^** or **v** and begin to browse. You can see the channel call sign and number, the title, start and end times for the currently airing program, and the title, start and end times for what's on next. Continue pressing **^** or **v** until you see something you like; then press **SELECT**. You will tune to that channel.



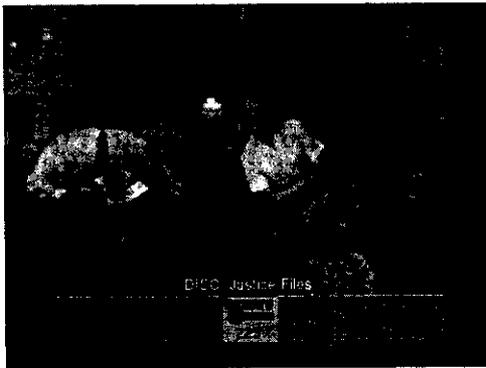
The Browse Banner

Pressing the **<** key will move the highlight to the channel tag. The tag will become the associated network logo, when available. You may find this useful if the logo is easier to identify than the call sign.

If you wait a few seconds or press the **EXIT** key while the Browse Banner is displayed, it will go away.

The Logo Banner

The Logo Banner serves the same purpose as the Browse Banner. The Logo Banner can be displayed by pressing either the **<** or **>** key. A strip of network logos and service marks will appear across the screen along with the title of the program currently airing on the highlighted logo. Continue to press the **<** or **>** key to shift new logos onto the screen. When you find another program of interest, press **SELECT** to tune to that channel.



The Logo Banner

Just as with any other banner, it will time out after a brief delay, or you can press **EXIT**.

You now know all the ways to change channels while watching video. As you use your DSS receiver you will probably use each of these ways depending on the situation.

Alternate Services

Your Hitachi digital satellite receiver can support alternate audio and data reception. To determine if the services are available for a particular program, look for the associated icons located below the date and time in the Information banner or on the **PROGRAM GUIDE**. To access these services when available press the **(SVCS)** key. The **ALTERNATE SERVICES** banner will appear at the bottom of the screen. Highlight either the *Alt. Audio* or *Data* button, depending on the service you wish to change, and press **SELECT**.

Alt. Audio

Once you have selected the *Alt. Audio* button you can use the **^** and **v** keys to step through the audio tracks offered for the current program. To choose the highlighted language, press **SELECT**. On occasion an audio track may be offered that is not being broadcast. If this is the case for the selected track, the audio you hear will either be unchanged or silent.

Changing channels will restore the audio track to the one that is specified in your **DEFAULT AUDIO** screen. See Chapter 7, "Your Hitachi Receiver's Setup Menu" for information on setting the default audio.

Data

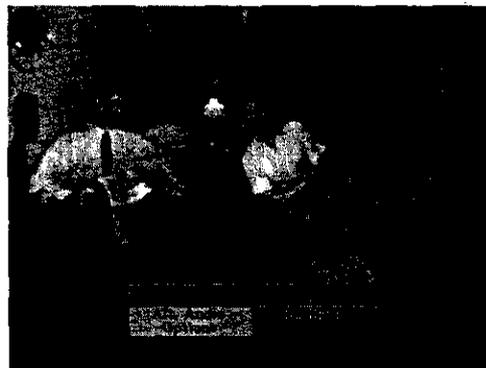
Once you have selected the *Data* button you can use the **^** and **v** keys to step through the available data services. These data services may include interactive television, video games computer services, etc. To choose the highlighted data, press **SELECT**.

The PROGRAM GUIDE

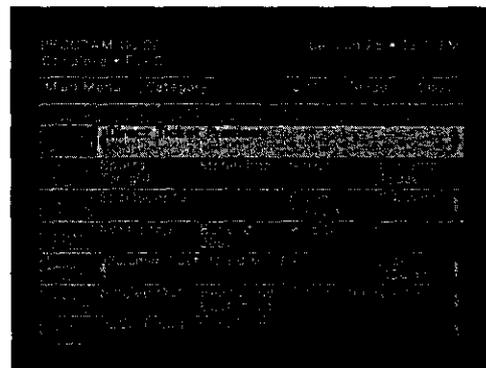
Probably the most powerful feature of your Hitachi digital satellite receiver is the **PROGRAM GUIDE**. From the **PROGRAM GUIDE** you can see a page of seven channel listings at a time, filter the guide to include only programs in the categories of interest to you, and even see what's on in the next 2 or 3 days. Other advanced features available from the **PROGRAM GUIDE**, such as Schedule and Information, will help you plan your viewing. Continue reading to learn the real power of your Hitachi-brand DSS receiver's on-screen menus. At any time you can press the **GUIDE** key to display the **PROGRAM GUIDE**. You can also initiate the **PROGRAM GUIDE** while watching video by pressing **SELECT**.

Let's begin with an overview of the elements that make up the **PROGRAM GUIDE**. The large area containing the various program titles is known as the "grid." Programs occupy cells within the grid. Some cells have arrows associated with them. These arrows indicate that the program started at an earlier time or continues until a later time than is displayed in the grid. Each grid cell is 1/2 hour wide. Programs that are longer than 1/2 hour are displayed by joining multiple cells together.

Programs appear on different colored cells. Movies will appear in purple, sports programs in green, news in brown, and all others in blue. You can disable this feature from the



The Alternate Services Banner



The PROGRAM GUIDE

PREFERENCES screen. See Chapter 8, “Preferences On Your Hitachi Receiver” for information on changing the appearance of the **PROGRAM GUIDE**.

The icons that were described earlier in this chapter that appear on the Channel Banner can also appear on the **PROGRAM GUIDE** just below the current date and time. Program related icons, such as closed captioning, reflect information pertaining the currently highlighted program.

A time line spanning the width of the guide indicates the show times of the programs being displayed. The list of blocks running down the left-hand side are the “channel tags.” Above the guide is a menu bar, which is a series of buttons used to filter the guide into a more manageable, personalized guide—except for the button on the left, which takes you to the **MAIN MENU**. In addition to the current date and time, the top-most portion of the screen displays the title, class, and channel list for the guide. We will discuss each of these titles shortly.

Moving Around the Guide

To move around the guide, use the **^**, **v**, **<**, and **>** keys. You can continue to press the **v** key to scroll more program offerings onto the screen. This is also true when moving up—but with one small difference. After pressing the **^** key on the top line of programs, the highlight jumps to the last used button on the menu bar. You can continue pressing the **^** key while on the menu bar to scroll the guide.

To speed up the process of reviewing the guide, you can use **⏪** and **⏩** to page through the guide entries six channels at a time.

You can press **SELECT** on a currently airing program to tune to it. If the program is not airing until later, pressing **SELECT** will take you to the **INFORMATION** screen. The **INFORMATION** screen is described later in this chapter in the section called “Getting Program Information”

When the highlight is in the grid, you can use the **<** and **>** keys to move left and right. If you move the highlight onto the channel tags, they will change to logos. The logos may make it easier to find a specific channel. Move the highlight to the right to move the grid area to reveal later time periods. Sometimes, after scrolling a few hours into the future, there may be a brief delay while more information is received from the satellite.

Filtering the Guide

Sometimes, searching through hundreds of programs looking for those that are of interest to you can be just a bit overwhelming. The Hitachi digital satellite receiver is prepared to help you hunt. The buttons in the menu bar are your tools.

Category

Let’s begin with the *Category* button. When this button is highlighted and **SELECT** is pressed, a drop-down menu appears. This drop-down menu offers all of the available category groupings of programs. You can choose any one of these that is of interest. Once you press **SELECT** on your selection, the drop-down menu goes away and the guide is modified to show only those channels airing programs within the next few hours that match your selection.

Popular categories can be quickly selected from your remote control. Slide the mode switch located on the right-hand side of the remote control to “DSS.” You will see three keys for filtering the guide to **Movies**, **Sports**, and **News**. Pressing one of these keys a second time will restore the guide to be “All” categories.

Type

After choosing a category (other than *All*) the *Type* filter button appears. The *Types* drop-down menu enables you to further refine your desired programs by different types of the previously chosen category. For example, if you chose *Movies* for the category, you can now choose a type of movie such as *Comedy*, *Drama*, *Sci-Fi*, etc. After selecting one of these, the guide will be further filtered to feature only those channels that will be offering programs of the selected category and type.

List

The *Lists* drop-down menu enables you to filter the guide to display only channels from the selected list. In addition to *All Channels*, you can choose one of your own defined lists. See the "Fav. Lists" section of Chapter 6, "The Hitachi Main Menu" to learn how to set your favorite lists.

You can use the **Fav.** key located on the DSS page of the remote control to cycle through the lists at any time on the **PROGRAM GUIDE** without using the drop-down menu.

Guide

For the most part, the *Guides* drop-down menu provides easy access to future time periods in the guide. Simply select one of the hour offsets from the current time. After a few seconds, the selected guide will appear.

Another type of guide that could be offered is a list-type guide. These list-type guides do not represent channels and time, but rather a list of possible options. These guide types are very rare.

Class

One more way that you can filter your guide is through the *Classes* drop-down menu. From this menu you can select classifications such as *PPV*, *Subscription*, *Scheduled*, etc.

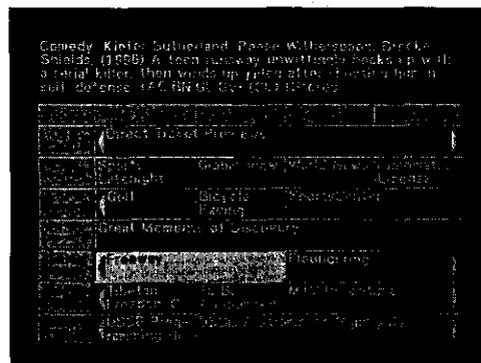
By combining each of these filter options, you can quickly narrow down 200+ channels to those that meet your current viewing interests. Once you exit to watching your program, all filters, except for the favorite list, will reset to an unfiltered condition.

Getting Program Information

Sometimes just knowing the program title is not enough. You want more information about a program. With your Hitachi-brand DSS receiver that problem is solved—in more ways than one. First, you may notice that as you highlight different programs, various icons (little pictures or labels) appear at the top of the screen under the date and time.

Just as you can see any available program description in the Information Banner, you can also see it on the guide. Highlight the program of interest; then press the **GUIDE** key. The description appears at the top of the screen. Press **SELECT** if you want to watch the program, or use the **^**, **v**, **<**, or **>** keys to continue to browse the guide.

Once you have found a program for which you would like more information and options, highlight the program and press the **INFO** key. This action will display the **INFORMATION** screen.

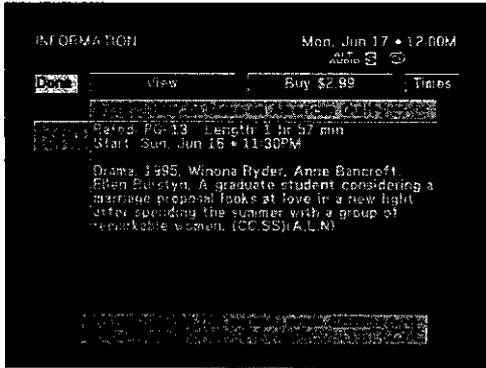


The **PROGRAM GUIDE** with description

Many channels have descriptions, too. To view these descriptions, highlight the channel name/number (also known as a channel “tag”) and press either the **GUIDE** key or the **INFO** key just as you would to view a program description.

The INFORMATION Screen

The **INFORMATION** screen offers the same program description that has been explained earlier, and more. You can see displayed the program’s actual start time and duration, the program rating, and a variety of options associated with the selected program. Let’s examine the possible buttons that may be available.



The **INFORMATION** screen

Done

When you highlight the *Done* button and press **SELECT**, you will be returned to the guide (or to the channel offering a purchase if accessed from video).

View

After reading the program description and related information, you may choose to view it by highlighting the *View* button and pressing

SELECT. If this is a PPV event, it may be necessary to complete the purchase process (either on-screen or by calling your service provider) before the program can actually be viewed.

Schedule

This is one of the handiest features of your Hitachi digital satellite receiver. You can use *Schedule* to actually plan your evening or weekend viewing, then just let the remote disappear into the cushions of your sofa. *Schedule*, when selected, will initiate a drop-down menu offering up to three choices: *To View*, *To Tape*, and *Don't Schedule*.

To View, if selected, will mark the program to be automatically tuned when it airs. This way, you won't miss an important program. At the right time the receiver will even turn on if it was turned off, and tune to the appropriate channel. Programs that are scheduled to be automatically tuned to for viewing will be identified on the **PROGRAM GUIDE** with a check mark (✓) before the program title.

To Tape is very similar to *To View*; however, if you have connected your VCR to your Hitachi digital satellite receiver via the IR cable and have properly set the VCR code from the **SETUP MENU**, the chosen program will be recorded at the correct time. If the receiver turned itself on to record the program, it will also remember to turn itself back off after the program ends. Programs that have been scheduled to be taped will be identified with a video tape icon (📺) before the program title on the **PROGRAM GUIDE**.

You can perform the *Schedule To Tape* capability from within the **PROGRAM GUIDE**. Simply highlight the program that you want to tape and press the **SCHED** key.

When using the *Schedule To Tape* feature the following steps must be completed for the Hitachi-brand DSS receiver to perform unattended recording:

- Attach the VCR Control cable as described in Chapter 2, “Setting Up Your Hitachi Digital Satellite System.”
- You need to have used the **VCR SETUP** utility as described in Chapter 7, “Your Hitachi Receiver’s Setup Menu.”

- Set your VCR to match the output of your DSS receiver. This could be either RF (channel 3 or 4) or A/V (phono or S-video).
- Insert a recordable video tape of sufficient length in the VCR.
- Leave the VCR turned ON.

Don't Schedule is used should you initiate the drop-down menu and then choose not to do anything.

Schedule To View

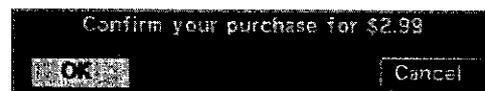
Sometimes you may have the button to *Schedule To View* without having the option to tape. This can occur when a program may not be authorized for taping. In this case, the DSS receiver can tune to it when it airs; however, taping is not allowed.

Cancel Schedule

Once a program has been scheduled for viewing, previewing, or taping, you have the option of canceling the action. Schedules can also be canceled directly from the **PROGRAM GUIDE** by highlighting a scheduled program and pressing the **SCHED** key. If you wish to switch between *To View* and *To Tape* or vice versa, you must cancel the current selection first, then choose the newly desired action. Canceling a scheduled program will also remove the check mark or video tape icon preceding the program title on the **PROGRAM GUIDE**.

Buy \$2.99

If an event is a PPV offer, you may have the option to buy it. The price of the event is displayed as part of the button and it may not always be \$2.99. After highlighting this button and pressing **SELECT**, a confirmation will appear. Use this opportunity if you wish to change your mind.



Purchase confirmation

If you are not authorized to make the purchase directly from your DSS receiver, you will need to contact the service provider of the event for assistance.

Buy Options

While this button is similar to the *Buy \$2.99* button, it does differ slightly. This button will initiate a drop-down menu offering a *View Only* price, a *Tape/View* price, and *Don't Purchase*.

The *View Only* price indicates the cost to view the program only. A purchase of this type excludes the possibility of taping the event for later viewing.

The *Tape/View* price indicates the cost to enable you to record the event for later viewing. Of course, you can also view the event when it airs if you select this option.

After choosing either *View Only* or *Tape/View*, you will be prompted to confirm your purchase request. At this point you may either proceed with or cancel the purchase.

If neither purchase option is of interest to you, highlight *Don't Purchase* and press **SELECT**.

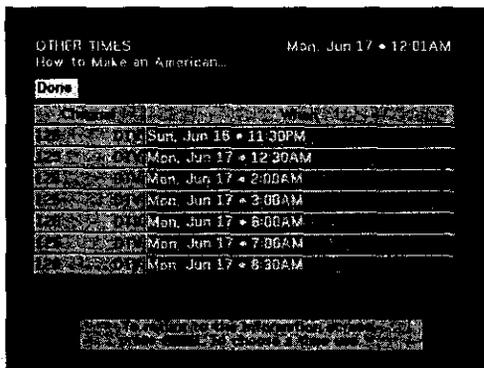
Cancel Purchase

Some events may allow cancellation after they have been previously purchased. Unviewed purchases can usually be canceled. The cancellation rules vary with service provider, event type, and whether the event has been viewed. If the *Cancel Purchase* button is displayed, you are able to

cancel the previous purchase. If this button is not offered, then most likely a portion of the event has already been viewed and you are then committed to the purchase.

Times

The *Times* button, when displayed, provides a simple way to display a concise list of other presentation times of the program of interest. You may use this button to find a viewing time that may be more convenient to meet your schedule. The *Times* button will only apply to PPV programs and events.



The OTHER TIMES screen

You will be returned to the **INFORMATION** screen with the displayed information updated to reflect your selection from the times that were presented.

YOUR HITACHI RECEIVER'S MAIN MENU

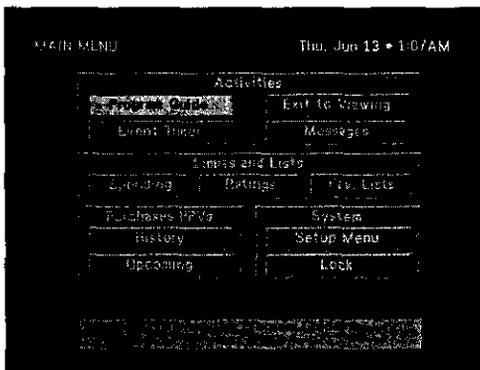
CHAPTER

6

The Main Menu May Be Considered Your Home Base

Your Hitachi-brand DSS receiver does much more than offer fantastic audio and video. The Main Menu is the primary location where you can access system management functions.

From the **MAIN MENU** you can branch in any direction including the **PROGRAM GUIDE**, customize system features, read incoming messages, lock and unlock your system, and more.



The **MAIN MENU**

There are two ways to get to the **MAIN MENU**. First, you can press the **MENU** key on the remote control. Another way to get to the **MAIN MENU** is by highlighting the *Main Menu* button on the **PROGRAM GUIDE**.

The **MAIN MENU** is grouped into sections of related functions. We'll explain each section and button, and the resulting screen, one at a time.

Activities

The area at the top contains primary "Activities" you might need to perform. Two of the four available buttons in this area can be performed quickly with the **GUIDE** key and the **EXIT** key.



The "Activities" portion of the **MAIN MENU**

Program Guide

As you have probably guessed, the *Program Guide* button takes you from the **MAIN MENU** to the **PROGRAM GUIDE**. You can use the **PROGRAM GUIDE** to display what's available at a given time on up to seven different channels. The **PROGRAM GUIDE** also has several menu buttons that are useful for filtering the guide down to only those channels offering programming that is of particular interest to you. See "The **PROGRAM GUIDE**" section in Chapter 5, "Watching DSS Programs On the Hitachi Receiver" for detailed information on using the **PROGRAM GUIDE**.

A quicker way to access the **PROGRAM GUIDE** from the **MAIN MENU** or any other menu is by pressing the **GUIDE** key, either on the remote control or on the DSS receiver's front panel.

Exit To Viewing

When you select *Exit To Viewing*, the **MAIN MENU** will clear from the display and you will return to the channel that was being viewed prior to entering the menus.

This button is provided for those occasions where you are using the DSS receiver's front panel and don't have access to the remote control. If the remote control is handy, pressing the **EXIT** key is a much more convenient way to return to watching your program.

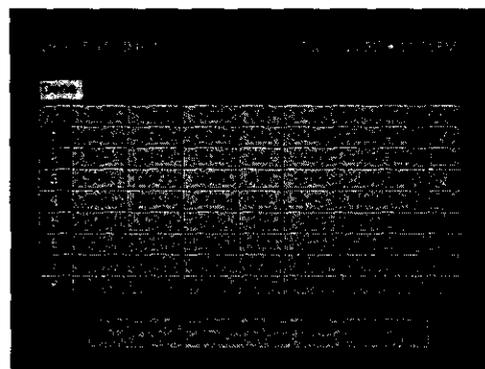
The information banner will appear briefly or you can erase it quickly by pressing the **EXIT** key again.

Event Timer

The **16-EVENT TIMER** is primarily for those occasions when you want unattended recording of a DSS program. You can use the **16-EVENT TIMER** feature along with your VCR to record events in your absence. You may also use the **16-EVENT TIMER** to automatically tune to a program at a specific date and time or at a specific time on a repeating basis.

The **16-EVENT TIMER** screen displays eight rows of events. Since there may be up to 16 events, you can use the **▼** key to scroll down, or the **⏮** key to page down to additional events.

Once you have highlighted the event you wish to set or edit, press **SELECT** or **▶**. The entire row changes color to indicate that it is the one being changed and the highlight advances to the *Chan.* column.



The 16-EVENT TIMER screen

You can enter the desired channel number using the number keys on the remote control, or using the **▲** and **▼**, **⏮** and **⏭**, or QuickTune keys. The AlphaTune feature can also be used. If you don't know the channel number, use the **▶** to advance to the *Name* column and use the **▲** and **▼** or **⏮** and **⏭** to search for the channel call sign.

To erase an event entirely, enter **0:0:0** for the channel number. All values for the highlighted event will be cleared.

If programming an event, use the **SELECT** key or the **▶** key when you are ready to continue.

Next, enter a *Start* time using the number keys on the remote control, or by using the **▲** and **▼** keys. Press **SELECT** or **▶** to continue.

You then must specify whether the time you entered is "AM" or "PM," using the **▲** and **▼** keys. To continue, press **SELECT** or **▶**.

Using the same procedure as setting the start time, set the program *Length* or duration. As before, use **SELECT** or **▶** to advance to the *When* column.

The *When* column is very versatile. Using the **▲** and **▼** keys, you can specify when, or how often, the event occurs. Your choices are: *Today, Tomorrow, Every Mon, Every Tue, Every Wed, Every Thu, Every Fri, Every Sat, Every Sun, Everyday, Mon-Fri*, or **/** to specify an exact date. If you are specifying a date, enter the numbers using the remote control in month/day format. The year will be set automatically. Once you have set the *When*, advance using the **SELECT** or **▶** key.

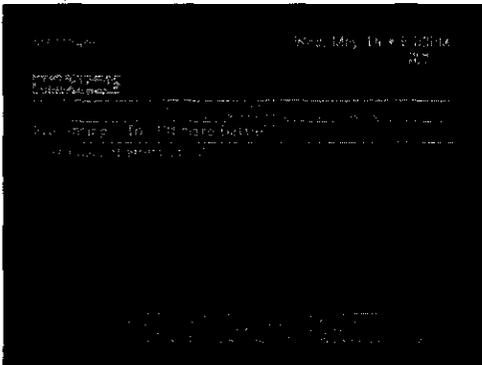
There are three possible settings for the On column: a check mark (✓) to indicate “to view,” a videotape (V) to indicate “to tape,” or empty to indicate that this specific event timer is disabled.

When using the **16-EVENT TIMER** the following steps must be completed for the DSS receiver to perform unattended recording:

- Attach the VCR Control cable as described in Chapter 2, “Setting Up Your Hitachi Digital Satellite System.”
- You need to have used the **VCR SETUP** utility as described in Chapter 7, “The Hitachi Setup Menu.”
- Set your VCR to match the output of your DSS receiver. This could be either RF (channel 3 or 4) or A/V (phono or S-video).
- Insert a recordable video tape of sufficient length in the VCR.
- Leave the VCR turned ON.

Messages

The MESSAGES feature of your Hitachi digital satellite receiver enables service providers to notify you about important information, upcoming special events, offers, and other promotional programming.



The MESSAGES screen

When new messages are received, a “New Mail” indicator appears at the top of all menu screens. This indicator will remain on the menus until you have read the new message.

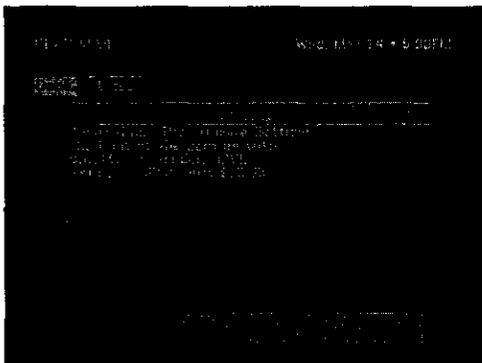
When you highlight the Message button, the advisory message at the bottom of the screen indicates if there are any messages to read. If there are, you can press **SELECT** to access the Messages screen.

The MESSAGES screen will list the first line of text for each message that is available. Messages displayed include those that were not erased or have not expired; and new, unread messages.

Using the **▼** key, highlight the message that you wish to read and press **SELECT**.

READ MAIL

The entire message will then be displayed. If the message is too long to fit on one page, use the **▼** key to view additional pages.



The READ MAIL screen

You now have the opportunity to Erase this message if you won't want to refer back to it later. Messages will “self erase” if they become outdated or if space is needed to hold newer incoming messages.

Limits and Lists

The middle of the **MAIN MENU** screen has an area called "Limits and Lists." The buttons in this area are used to help you establish restrictions on the use of your DSS receiver. You can control PPV spending limits, viewable program rating limits, and control access to various channel groupings.



The "Limits and Lists" portion of the **MAIN MENU**

Spending

PPV access enables you to purchase special, limited-broadcast events such as sporting events and movies. You can set the amount of money that can be spent on a per-event basis. When the highlight is on the *Spending* button, the advisory at the bottom of the **MAIN MENU** indicates the current spending limit. Pressing **SELECT** displays the **SPENDING LIMIT** screen where you set the limit.



The PPV **SPENDING LIMIT** screen

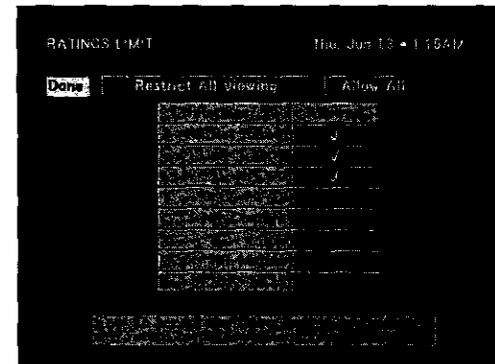
Use the number keys on the remote control to set the limit or use the \wedge and \vee keys to increase or decrease each digit. Use the \leftarrow and \rightarrow keys to highlight the digit that you want to change. The maximum limit is \$655.

Highlight *Done* and press **SELECT** to confirm the entered amount.

For the spending limit to be enforced, the DSS receiver must be locked. Locking is described later in this chapter. When the system is locked, a small lock symbol appears within the *Spending* button on the **MAIN MENU**, indicating that the passcode will be needed to access the **SPENDING LIMIT** screen.

Ratings

Program ratings indicate the suitability of a program's content for a given audience. For families with younger children, a lower rating limit may be desirable. Other families may choose to allow viewing of more sophisticated programming. The **RATINGS LIMIT** screen leaves this choice up to you.



The **RATINGS LIMIT** screen

Highlighting the *Ratings* button on the **MAIN MENU** will display the current rating limit in the advisory message area at the bottom of the screen. Pressing **SELECT** displays the **RATINGS LIMIT** screen where you set the limit. When the system is locked, a small lock symbol appears within the *Ratings* button, indicating that the passcode will be needed to access the **RATINGS LIMIT** screen.

Use the \vee to move the highlight to the highest allowable rating for your family. When you press **SELECT**, all ratings up to and including the chosen rating will be checked. All higher ratings will be cleared. You may choose to *Restrict All Viewing* or *Allow All* instead of setting a specific limit.

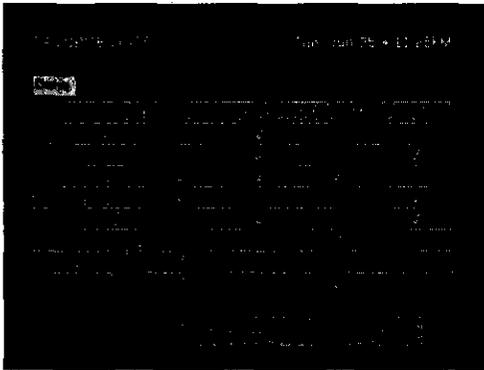
For the rating limit to be enforced, the DSS receiver must be locked. Locking is described later in this chapter. When the system is locked, a small lock symbol appears within the *Ratings* button on the **MAIN MENU**, indicating that the passcode will be needed to access the **RATINGS LIMIT** screen.

Fav. Lists

The favorite lists feature enables you to preset your channel selections for four different groupings. You can customize these groupings—*Fav. A*, *Fav. B*, *Fav. C*, and a fourth grouping that can be either *Fav. D* or *Family*—in a variety of ways. For example, *Fav. A* could be Dad's favorite channels, *Fav. B* could be Mom's favorites, *Fav. C* could be the kids' channels, and *Family* could be all channels that Mom and Dad have deemed appropriate for the entire family. See Chapter 7, "Your Hitachi Receiver's Setup Menu," for information on labeling the fourth Fav. list.

You can cycle through the favorite lists while watching DSS programming, on the **PROGRAM GUIDE**, and on the **FAVORITE LISTS** screen by pressing the **(Fav.)** key.

On the **FAVORITE LISTS** screen, use the **^**, **v**, **<**, and **>** keys to highlight the button that corresponds to the channel and list that you wish to change. Press the **(SELECT)** key to either add or remove the check mark. A check mark indicates that the channel of the row is included in the list named at the top of the column.



The **FAVORITE LISTS** screen

To help you choose to include or exclude a particular channel, the title of the currently airing program for that channel appears at the top of the screen. This may be of some guidance.

Remember that when using a Family list and the DSS receiver is locked, only channels included in the Family list can be viewed. This means that if you are currently set to the *Fav. A*, *B*, *C*, or *All Channels* list, you will step through the channels included on the current list, however to actually view or hear the program, the

selected channel must be on the *Family* list as well.

For the Family List limit to be enforced, the DSS receiver must be locked and the fourth list must be labeled "Family." Locking is described later in this chapter. When the system is "locked" and the fourth list is labeled *Family*, a small lock appears within the *Fav. List* button on the **MAIN MENU**, indicating that the passcode will be needed to access the **FAVORITE LISTS** screen.

The *Clear Family List* and *Set Family List* provides a quick way to remove or include all channels from the Family list. This may be used when you want to start from a known condition. Then step through and add or remove only those channels that you wish to be on the Family list. Selecting the *Clear Family List* button or the *Set Family List* button cannot be undone!

Purchased PPVs

The "Purchased PPVs" area in the lower left of the **MAIN MENU** provides access to screens that enable you to review your receiver's most recent pay-per-view activity.



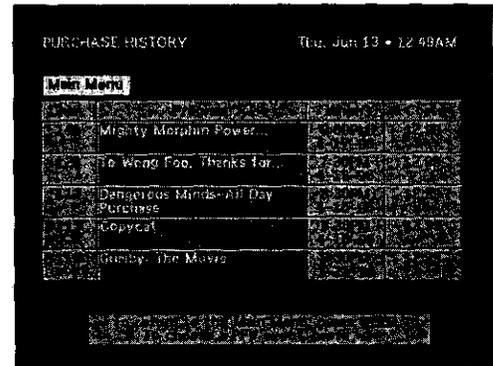
The "Purchased PPVs" portion of the **MAIN MENU**

History

The **PURCHASE HISTORY** screen displays recently viewed PPV events that you have been or will be billed for. Events that you purchased, but later canceled, or cancelable events that were purchased but the receiver never tuned to, will not appear. Events that were ordered by directly calling the service provider will not appear on this list. You cannot remove events from this list. Reported events will disappear from this list as the DSS receiver needs space to log newer purchased events.

You can see displayed the channel on which the event occurred, the event title, the start date and time, and the cost. There may be more events than can fit on the screen. You can access these by using the **▼** key or advance a page at a time by pressing **F0**.

If you need to discuss an event with your service provider, highlight the questioned event and press **SELECT**. Additional information that the representative may ask for is provided in the advisory message area at the bottom of the screen.



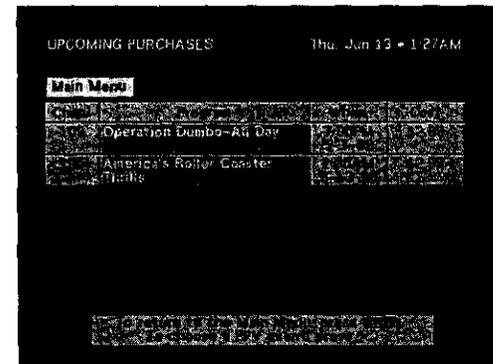
The **PURCHASE HISTORY** screen

Upcoming

The **UPCOMING PURCHASES** screen displays PPV events that you have purchased but not yet viewed. Events that were ordered by calling the service provider will not appear on this list.

You can see displayed the channel on which the event will occur, the event title, the start date and time, and the cost. There may be more events than can fit on the screen. You can access these by using the **▼** key or advance a page at a time by pressing **F0**.

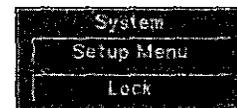
If you would like to cancel an event, highlight the event in question and press **SELECT**. You will be taken to another screen where you may be given the opportunity to cancel your purchase.



The **UPCOMING PURCHASES** screen

System

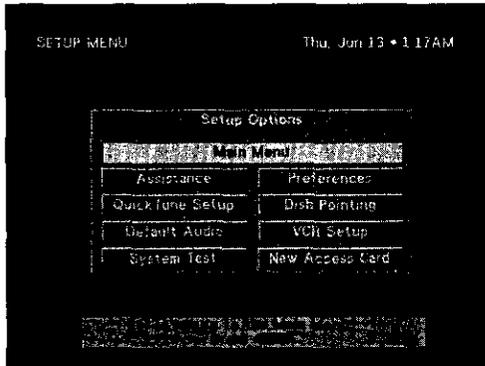
The area in the lower right of the **MAIN MENU** is labeled "System." This area provides buttons to access system setup features and the capability to lock and unlock your DSS receiver.



The "System" portion of the **MAIN MENU**

Setup Menu

The **SETUP MENU** provides access to items that are usually one-time setup options. It contains buttons to access rarely needed aspects of your Hitachi digital satellite receiver. This includes your preferred audio language, QuickTune key setup, VCR code setup, system test, assistance, and the familiar dish pointing menu.



The **SETUP MENU**

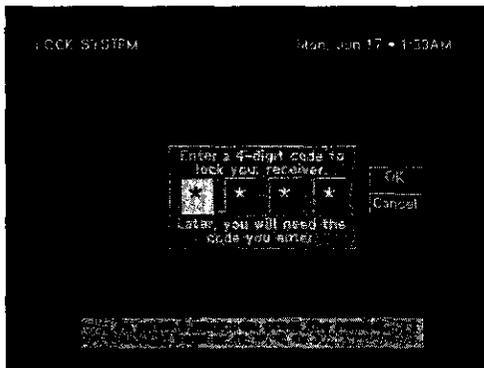
Refer to Chapter 7, “Your Hitachi Receiver’s Setup Menu” for item-by-item descriptions of each button on the **SETUP MENU**.

Lock

When you first receive your DSS system, it will be unlocked. That is, no limits or restrictions are in effect. To enforce the limits (spending, ratings, and possibly the “Family” favorite list), you must lock the system.

When the button on the **MAIN MENU** reads *Lock*, no lock symbol appears at the top of the menu screen, indicating that the system is unlocked.

When you highlight the *Lock* button and press the **SELECT** key, the **LOCK SYSTEM** screen is displayed.



The *Lock screen*

Use the \wedge and \vee keys or the remote control number keys to enter a four-digit passcode of your choosing. If you enter the code using the number keys, you will not see the numbers appear on the screen. After entering a four-digit passcode, highlight and select **OK** to proceed. Otherwise, choose *Cancel* to abort the locking process.

If you continue locking, you will be asked to enter the code again in the same fashion as before for confirmation purposes. Once again, highlight and select **OK** to proceed. Otherwise, choose *Cancel* to abort the locking process.

Once **OK** has been selected, your DSS receiver is locked. The button previously used to access **LOCK SYSTEM** is now used to access **SYSTEM UNLOCK**. A lock symbol appears at the top of every menu screen to remind you that your DSS receiver is locked.

REMEMBER YOUR CODE! You will need this code whenever you wish to override the lock or to unlock your DSS receiver.

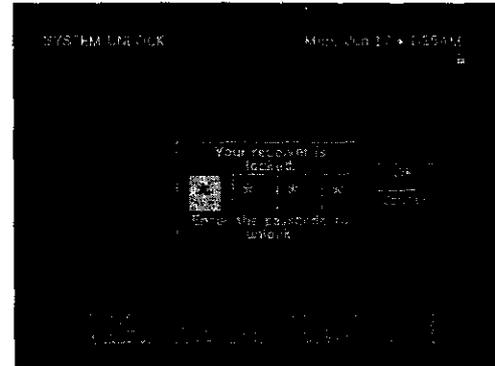
Unlock

Once you have locked your DSS receiver and would like to remove the lock and its restrictions at some later date, highlight the *Unlock* button and press the **SELECT** key.

When the **SYSTEM UNLOCK** screen appears, you can use the **^** and **v** keys or the remote control number keys to enter the four-digit passcode that you used to lock the DSS receiver earlier. If you enter the code using the number keys, you will not see the numbers appear on the screen.

After entering a four-digit passcode, highlight and select **OK** to proceed to unlock the DSS receiver. **Once your DSS receiver has been unlocked, all limits and restrictions are removed!** Otherwise, choose **Cancel** to keep the lock in effect.

If you should happen to forget the four-digit code that you used to lock your DSS receiver, call your service provider for assistance.



Unlock screen

LOCK OVERRIDE

There are times that you may wish to access a program or channel which exceeds the spending limit, rating limit or family approved channels while your DSS receiver is locked. You can do this without unlocking your DSS receiver. When you press **SELECT**, when prompted, the **LOCK OVERRIDE** screen will be displayed. It looks and navigates just like the **SYSTEM UNLOCK** screen. The main difference is that when you enter the correct four-digit code your DSS receiver will remain unlocked until you power the receiver off. At that time all locks and limits will be enforced again.

By now you should be feeling comfortable with your Hitachi digital satellite receiver. You can see, the menus are presented in an organized and friendly fashion. As you continue to use your system, you will find that navigating through the screens becomes second nature.

YOUR HITACHI RECEIVER'S SETUP MENU

CHAPTER 7

Use the Setup Menu to Access Installation and Customizing Features

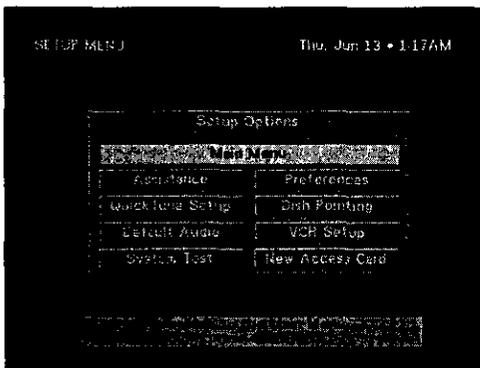
There are a variety of aspects of your Hitachi digital satellite receiver that you should specify. Take this opportunity to set these options.

The **SETUP MENU** contains buttons to access rarely needed aspects of your DSS receiver. This includes your preferred audio language, *QuickTune Setup*, *VCR Setup*, *System Test*, *Assistance*, and the familiar **DISH POINTING** menu.

We will now step through each button on the **SETUP MENU**, and describe the options available on each resulting screen.

Main Menu

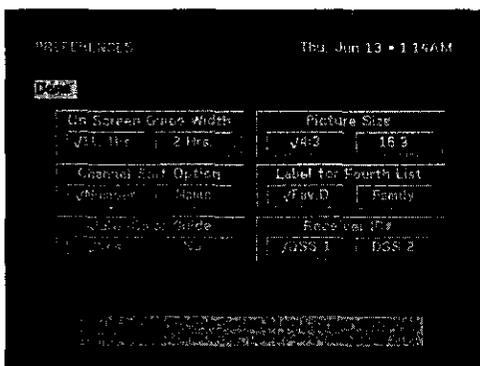
The *Main Menu* button returns you back to the **MAIN MENU** once you are finished accessing all of the desired **SETUP MENU** options.



The **SETUP MENU**

Preferences

The *Preferences* button takes you to the **PREFERENCES** screen. The **PREFERENCES** screen is where you find a variety of items that enable you to customize the appearance of the **PROGRAM GUIDE**, setting whether or not you are using a wide-screen TV, whether or not you wish to use the parental channel controls, and set the unit ID for multiple receiver environments. See Chapter 8, "Preferences On Your Hitachi Receiver" for descriptions of each button.



The **PREFERENCES** screen

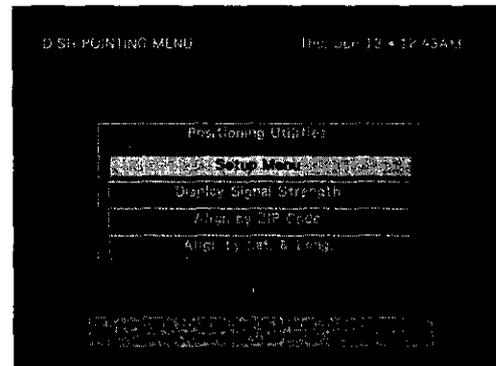
Dish Pointing

The **DISH POINTING MENU** provides the utilities that make installation of your antenna easy.

Align by ZIP Code and *Align by Lat. & Long.* will prompt you for your location, which is used to calculate the correct elevation and azimuth for pointing your dish.

The *Display Signal Strength* button displays the quality of the signal that your DSS system is receiving. In addition to using this at installation time, you may also want to check it when you are experiencing loss of signal, momentary video freezing, or similar problems.

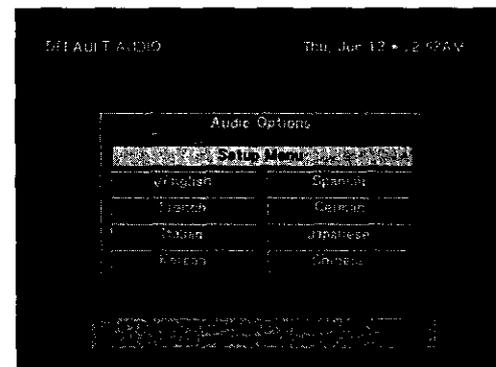
For a more detailed explanation of each item on the **DISH POINTING MENU**, see Chapter 4, "Pointing Your Hitachi Satellite Antenna"



The **DISH POINTING MENU**

Default Audio

The **DEFAULT AUDIO** menu enables you to specify the language track that you would prefer to accompany the programs that you watch. While *English* is the default language, you may choose an alternate language. If a program is available in the language that you choose, the program will be heard in that language. Otherwise, the language that you will hear will be the primary language in which the program is being broadcast.



The **DEFAULT AUDIO** screen

System Test

Anytime you experience a problem with your system, you can run the **SYSTEM TEST**, which runs a series of internal diagnostics that provide you with basic information about the system.

Depending on your test results, you may be able to remedy the problem yourself. For example, if your Access Card is missing, try reinserting it. A "No Dial Tone" message indicates that the phone line is in use or the DSS receiver is disconnected from the phone line. If you cannot remedy a problem yourself, call your dealer or Hitachi at 1-800-477-1212 and provide the technician with a complete description of the problem and the results of the system test. The technician will assist you with additional repair information and instructions.

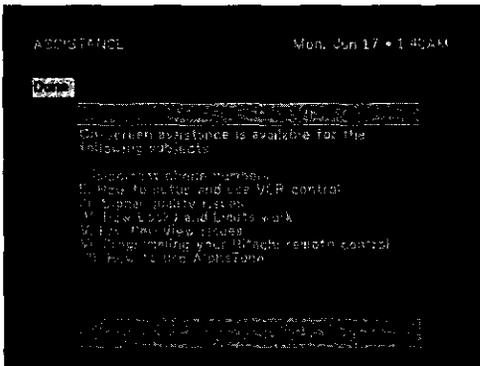


The **SYSTEM TEST** screen

Assistance

The **ASSISTANCE** screen should be your first stop when you need help or have a question. Think of this screen as an on-line quick reference manual. The first page of this screen is an index to the areas of assistance that are offered. Some of the screens included are important phone numbers, programming your remote control, solving common problems, controlling a VCR, and more.

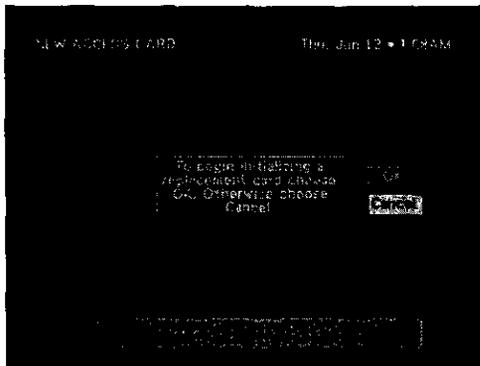
Check this screen to see the range of assistance that is offered. If that doesn't help, refer to this manual.



The ASSISTANCE screen

New Access Card

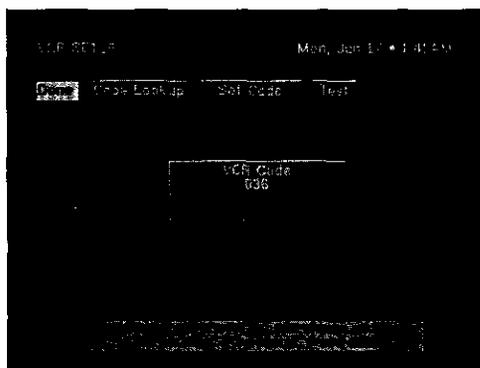
The **NEW ACCESS CARD** screen provides a process by which the service providers can distribute new access cards. Should you be issued a new card, you will need to activate it. Follow the on-screen instructions carefully to initialize it. Once the process has begun, your old access card will no longer allow viewing. Follow the on-screen instructions carefully. You should not interrupt the process once it has started. An interruption could cause both the old and the new card to become invalid. When the process has completed your new access card will be usable, while the old card will no longer be valid.



The NEW ACCESS CARD screen

VCR Setup

The **VCR SETUP** screen is used to set your Hitachi digital satellite receiver to control your VCR. To determine the code necessary, first choose *Code Lookup*. You can page through the various brands of VCRs until you have found your particular VCR type. Next, write down each number associated with your VCR brand. When you press the **SELECT** key you will return to the VCR Setup screen. Now choose *Set Code*. You can now enter the first code in the list that you noted. Insert a blank tape in your VCR. With the VCR turned on, choose *Test* and try both *Record* and *Stop*. If both of these tests are successful, your DSS receiver is now ready to orchestrate unattended recording. If either the *Record* or *Stop* test do not function, use the *Set Code* to try additional codes that you noted for your VCR until the testing proves successful. You should repeat the test through several *Record*, *Stop* cycles to confirm that a reliable code and cable placement is being used.



The VCR SETUP screen

QuickTune Setup

The **QUICKTUNE SETUP** screen is used to modify the channels associated with the QuickTune keys on the remote control. To make a change, move the highlight to the on-screen button that represents the corresponding key on the remote control. This can be done with the **^**, **v**, **<**, and **>** keys, or simply by pressing the QuickTune key you wish to change. Undefined keys are indicated by the associated button displaying "QT EMPTY." Once highlighted, the channel can be changed in one of three ways: enter the channel using the number keys, use **F0** and **F1**, or use the AlphaTune feature (see Chapter 5, "Watching DSS Programs On the Hitachi Receiver" for AlphaTune instructions.)

After setting the QuickTune keys you can either select *Done* or press the **EXIT** key to return to viewing DSS programming.

You can change the channel associated with any QuickTune key. You may want to use a small sticker and attach it above the key(s) you change to identify the channel associated with each QuickTune key.



The QUICKTUNE SETUP screen

PREFERENCES ON YOUR HITACHI RECEIVER

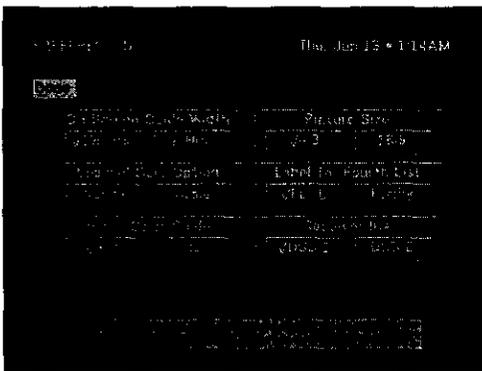
CHAPTER

8

Customize Your Hitachi Menus to Appear the Way You Want

You can control the number of columns in the Program Guide. You can control the channel sort order. You can control a variety of other aspects to suit your Preference.

By changing the various options on the **PREFERENCES** screen, you can customize your Hitachi digital satellite receiver to operate in the way that best suits your needs.



The **PREFERENCES** screen

The **PREFERENCES** screen is where you find a variety of items that enable you to customize the appearance of the **PROGRAM GUIDE**, setting whether or not you are using a wide-screen TV, whether or not you wish to use the V-chip-like parental controls, and the unit ID for multiple receiver environments. Let's look at each of these areas one at a time.

Done

Once you have set the options on the **PREFERENCES** screen to those you desire, highlight the *Done* button and press **SELECT**. This will return you to the **SETUP MENU**.

On-Screen Guide Width

"On-Screen Guide Width" enables you to choose whether you want to display either *1 1/2 Hrs.* or *2 Hrs.* of programming in the **PROGRAM GUIDE**.

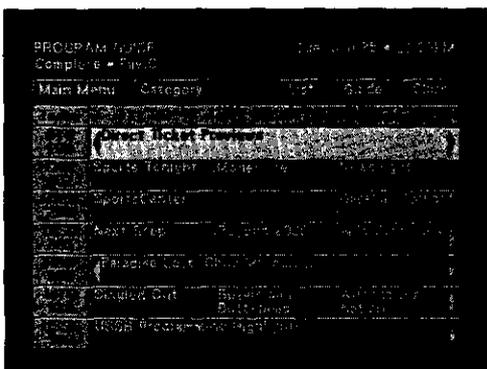


The "On Screen Guide Width" portion of the **PREFERENCES** screen

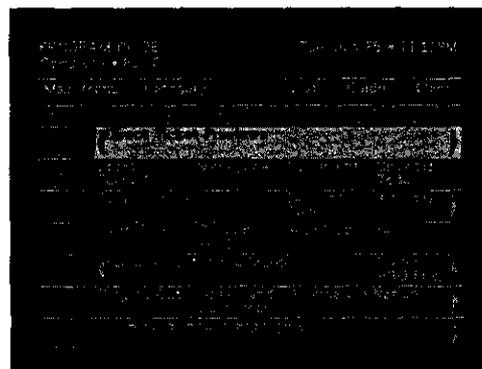
1 1/2 Hrs. or 2 Hrs.

If you use the default of *2 Hrs.*, you can view four columns of programming; however, due to the reduced space, some titles may not be fully displayed and will end with an ellipsis (...). If you

choose the *1 1/2 Hrs.* format, you will see three columns of programming with most program titles displayed in their entirety.



The PROGRAM GUIDE in *1 1/2 Hrs.* format



The PROGRAM GUIDE in *2 Hrs.* format

Channel Sort Option

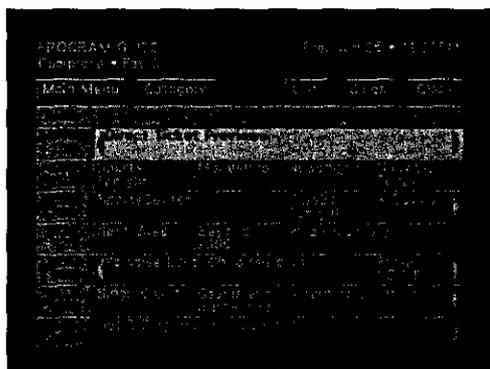
The “Channel Sort Option” enables you to choose whether programs appearing in the program guide are sorted numerically by channel number or alphabetically by channel call sign.



The “Channel Sort Option” portion of the PREFERENCES screen

Number or Name

By default, “Channel Sort Option” is set to *Number*. This lists channels in the program guide in numerical order. You may find that setting this option to *Name* may help you familiarize yourself with what channel number each channel call sign corresponds to. This is because, when set to *Name*, channels are in alphabetical order. You can always find CNN, for example, since it will be with the other channels whose call signs also start with “C.”



The PROGRAM GUIDE sorted by *Number*



The PROGRAM GUIDE sorted by *Name*

Multi-Color Guide

The "Multi-Color Guide" is a unique feature that allows you select whether or not programs on the guide are color coded to indicate category.



The "Multi-Color Guide" portion of the PREFERENCES screen

Yes or No

The "Multi-Color Guide" default setting is *Yes*. When in this condition, programs in the movies, sports, and news categories are displayed in different colors from all other program categories. Movies will appear on a purple background. Sports programs will appear on a green background. And news programs will appear on a brown background. All other programs appear on a blue background. When the "Multi-Color Guide" is set to *No*, all programs, no matter what their category, will appear on a blue background.

Picture Size

"Picture Size" is a setting that you may wish to utilize if you have a wide-screen (this is different than a "big screen") TV. This is also known as "16:9" ratio format.



The "Picture Size" portion of the PREFERENCES screen

4:3 or 16:9

"Picture Size" should be set to *4:3* for most televisions, which is the default. This indicates that you are using a standard format television screen. However, if you have a wide-screen television, you may want to change this setting to the *16:9* option. While setting this option to the wrong format will not harm your TV in any way, it may cause undesirable appearances for programs broadcast in what is known as 16:9 ratio format.

Label for Fourth List

The "Label for Fourth List" is used not only to specify the list labeling, but also to indicate whether you wish to utilize parental controls of your Hitachi digital satellite receiver. With this capability you can still use the lists labeled "Fav. A," "Fav. B," and "Fav. C" for various members of the household, but even when a channel is on one of those lists, it must also be on the Family list to allow access.



The "Label for Fourth List" portion of the PREFERENCES screen

Fav. D or Family

When the label for the fourth list is set to the default of *Fav. D*, channel restrictions are not utilized. This means that when the receiver is locked, only spending and rating limits will be enforced. However, if you wish to limit access to certain channels, change the fourth list label to

Family. When the list is labeled *Family* and the receiver is locked, in addition to locking spending and rating limits, only channels enabled for the Family list can be viewed.

Receiver ID#

The last option on the Preferences screen is for setting the "Receiver ID #." The "Receiver ID#" is used to control two Hitachi-brand (or HNS-brand) DSS receivers within the same area. Normally, remote control signals would be detected by both DSS receivers and processed accordingly. By changing the "Receiver ID#" of one of the receivers, the remote control signals can be independently detected and processed.



The "Receiver ID#" portion of the PREFERENCES screen

DSS 1 or DSS 2

By default, it is set to *DSS 1*. If you do not have multiple Hitachi-brand (or HNS-brand) DSS receivers located in the same area or controlled by an RF remote control, leaving the setting to *DSS 1* should be fine. If, however, you have more than one DSS receiver that can detect the remote control, you should set one of the DSS receivers to be *DSS 2*. Pressing the windowed **DSS1/2** key will switch the remote control between the two code sets.

You can access the **PREFERENCES** screen at any time and as many times as you would like to change any of these settings. Making changes cannot harm your DSS system in any way.

PROGRAMMING YOUR HITACHI REMOTE CONTROL

CHAPTER

9

Use Your Remote Control to Tame Other A/V Devices

You can use the remote control that came with your Hitachi-brand DSS receiver to control other components in your entertainment system. Here's how...

Some of the devices that you can control with your remote control include TVs, VCRs, and cable boxes. Some receiver models come with a remote control that can also control audio devices such as amplifiers, and disc players such as CDs and video discs.

Programming the Remote Control

There are two different ways to program your remote control to match the devices you want to control: code scan, or code entry. Code scan can take some time, but it avoids having to dig out this manual whenever you want to program your remote control. Code entry saves some time; however, you will need to look up the possible codes that are assigned to the manufacturer of the device you want to control.

Code Scan

Keep your remote control aimed at the device you want to control during this process. The remote control will send out the "power" command for DSS, TV, cable (CBL), and audio components (AMP). The "Play" command will be sent for disc players (DISC), and VCRs.

While holding down the device key that you are programming, press the power key, and simultaneously release both keys. The light associated with the device you are programming should be flashing rapidly. If it isn't, repeat the process.

Now that you are in programming mode, enter **0000** to enter the scan mode. You can now press the **⏏** key to try the next code, sending out either the power or play command. This could take some time since there could be as many as 120 codes associated with each type of device. When your device responds to your tapping the **⏏**, you have found the code! If you inadvertently go past a code that responded, or realized that you may not have been aiming the remote at the device, you can use the **⏏** key to step backward through the code.

In order to lock in the code, either press the device key again or simply wait 10 seconds. You will see the lights on the remote light in a circle to indicate that the code was accepted. The remote will remember the code until your reprogram it.

Code Entry

First, look up the device type and brand in the following charts. You will find a list of numbers, one or more which should operate your device. There may be more than one code, so you will need to try each of them to find the one that works best.

While holding down the device key that you are programming, press the power key, and simultaneously release both keys. The light associated with the device you are programming should be flashing rapidly. If it isn't, repeat the process.

You are now in code entry mode. Simply use the remote control keypad to enter the four-digit code. You will see the lights on the remote light in a circle to indicate that the code was accepted. The remote will remember the code until you reprogram it.

Test if the entered code matches your device by pressing the **POWER** key (for DSS, TV, CBL, or AMP) or the play key (for VCR or DISC). If the device works, you're all set! Otherwise, repeat the process using the next code for your brand or try the code scan procedure.

Brand	Cable Boxes
ABC	2205, 2207, 2211, 2220, 2221, 2225, 2228, 2234, 2238
Archer	2225, 2235, 2243
Belcor	2243
BRX	2233
Cableview	2231
Century	2225
Citizen	2235, 2225, 2217
Contec	2203, 2206, 2208, 2209, 2213, 2218, 2228, 2230, 2238
Diamond	2230
Eagle	2221
Eastern	2204
GC Electronics	2217, 2225, 2235, 2237, 2241
GE	2253
Gemini	2229, 2231, 2257
General Instruments	2214, 2218, 2234
Hamlin	2230
Hitachi	2233, 2234
Jasco	2235
Jerrold	2209, 2214, 2218, 2221, 2234, 2242
Magnavox	2234
Memorex	2212, 2221, 2225, 2256
Micro Com	2259
Monarch	2217
Movie Time	2207, 2217, 2224, 2225
Northcoast	2226
NSC	2202, 2206, 2207, 2224, 2225
Oak	2206, 2216, 2228, 2230, 2260
One For All	2253
Panasonic	2203, 2208, 2212, 2227
Paragon	2212, 2221, 2225
Philips	2221, 2225, 2232, 2239, 2240, 2244, 2255
Pioneer	2220, 2227
Prism Multimedia	2017
Plug N Power	2253
PropHead Dev.	2257
Proscan	2251
Pulsar	2217, 2235
Rabbit	2246
Radio Shack	2225, 2235, 2243, 2253
RCA	2251
Recoton	2252
Regal	2230
Rembrandt	2206
Samsung	2217, 2220
Scientific Atlanta	2213, 2238, 2249, 2258, 2261
Sears	2233
Signal	2217
Signature	2234
Sprucer	2208, 2226

Brand	Cable Boxes
Starcom	2211, 2222, 2232, 2234, 2254, 2256
Stargate	2217
Sylvania	2219, 2233, 2248
Telecaption	2250
TeleView	2217
Texscan	2219, 2245, 2248
Tocom	2205, 2206, 2207, 2208, 2224
U.S. Electronics	2211, 2234, 2238
Unika	2225
Universal Command	2253
Universal	2225, 2235, 2236, 2243, 2252, 2254
Viewstar	2221, 2223, 2240, 2246, 2247
Wards	2234
Warner	2220
Zenith	2212, 2226

Brand	DSS Receivers
Hitachi	3300, 3301
HNS	3305, 3301, 3300
RCA	3303, 3304
Sony	3302

Brand	Televisions
A Mark	4425
Admiral	4462, 4463, 4476, 4497
Akai	4412, 4471
Anam National	4418
Anam	4413
AOC	4410, 4412, 4425, 4494
Audiovox	4415
Baycraft	4412, 4443, 4444, 4462
Baycrest	4412, 4443, 4444, 4462
Beil & Howell	4462, 4476, 4483, 4497
Broksonic	4405, 4412, 4413, 4449, 4481, 4482, 4483
Candle	4412, 4413, 4425, 4443, 4482, 4483, 4484, 4494, 4521 Also see Citizen
Citek	4513
Citizen	4482, 4521 Also see Candle
Classic	4412, 4471
Colortyme	4412, 4433, 4465, 4469, 4483
Concherto	4483
Contec Cony	4413, 4415, 4477
Craig	4413, 4415, 4427, 4443, 4482
Crosley	4483
Crown	4425, 4443
Curtis Mathes	4412, 4425, 4483, 4499
Curtis	4412, 4490
CXC	4413, 4415

Brand	Televisions
Daewoo	4412, 4418, 4425, 4490, 4494, 4495, 4507, 4514, 4521 Also see Funai, Goldstar, Magnasonic, and Nikko
Daytron	4412, 4425, 4427, 4490, 4494
Denon	4522
Electrohome	4406, 4412, 4425, 4445, 4475
Emerson	4406, 4407, 4408, 4412, 4413, 4414, 4415, 4417, 4425, 4427, 4430, 4432, 4439, 4443, 4452, 4453, 4461, 4462, 4463, 4477, 4481, 4516, 4517, 4518
Encore	4475
Envision	4412
Fisher	4431, 4435, 4450, 4467, 4471, 4476 Also see LXI, Sanyo, and Sears
Fortress	4412
Funai	4413, 4414, 4415 Also see Daewoo, Goldstar, Magnasonic, and Nikko
Futuretech	4413
GE	4412, 4413, 4418, 4419, 4422, 4423, 4455, 4459, 4491, 4499
Goldstar	4412, 4416, 4425, 4476 Also see Daewoo, Funai, Magnasonic, and Nikko
Gradiente	4446
Granada	4412, 4425, 4444, 4475
Grundig	4425, 4432, 4441, 4455, 4458, 4503
Halmark	4412
Harmon Kardon	4412
Hitachi	4412, 4424, 4425, 4426, 4428, 4444, 4453, 4455, 4463, 4475, 4485, 4494, 4499, 4522 Also see Megatron
Infinity	4412
Inteq	4476
JBL	4412
JC Penney	4410, 4412, 4422, 4425, 4440, 4455, 4476
Jensen	4461
JVC	4455, 4521
Kawasho	4412, 4471, 4477
Kenwood	4412, 4489
KMC	4425
KTV	4412, 4413, 4415, 4417, 4425, 4477
Lloyds	4412
Logik	4497, 4501, 4502
LXI	4412, 4483, 4520 Also see Fisher, Sanyo, and Sears
Magnasonic	4412, 4463 Also see Daewoo, Funai, Goldstar, and Nikko
Magnavox	4406, 4412, 4427, 4432, 4443,

PROGRAMMING YOUR HITACHI REMOTE CONTROL

Brand	Televisions
	4455, 4463, 4483, 4484, 4521
Marantz	4412, 4432, 4483
Matsushita	4466 Also see Panasonic
Megatron	4444 Also see Hitachi
Memorex	4412, 4445, 4450, 4497, 4506
MGA	4412, 4445, 4497 Also see Mitsubishi
Mitsubishi	4409, 4412, 4425, 4428, 4445, 4466, 4479, 4485 Also see MGA
MTC	4412, 4450, 4477, 4483, 4494
Multivision	4508
NAD	4412
NEC	4412, 4432, 4469
Nikko	4494 Also see Daewoo, Funai, Goldstar, and Magnasonic
Nyon	4412
Onwa	4413
Optimus	4492 Also see Radio Shack, and Realistic
Orion	4462
Panasonic	4415, 4418, 4422, 4432, 4440, 4441, 4455, 4459, 4485, 4494, 4507, 4520 Also see Matsushita
Philco	4406, 4412, 4427, 4432, 4443, 4463, 4483, 4494, 4521
Philips	4412, 4483, 4521
Pioneer	4412, 4432, 4492
Portland	4412, 4425, 4490
Prima	4502
Prism	4432
Proscan	4499 Also see RCA
Proton	4412, 4425, 4426, 4443, 4482
Pulsar	4412, 4481, 4494
Quasar	4418, 4427, 4432, 4440, 4441, 4455, 4459, 4485, 4499, 4507
Radio Shack	4412, 4413, 4415, 4420, 4425, 4450, 4464, 4483, 4505 Also see Optimus
RCA	4410, 4422, 4425, 4499
Runco	4497
Sampo	4412, 4418, 4485
Samsung	4412, 4425, 4463, 4519
Sanyo	4421, 4431, 4435, 4450, 4476 Also see Fisher, LXI, and Sears
Scott	4412, 4413, 4415, 4425, 4439, 4462
Sears	4412, 4413, 4417, 4421, 4425, 4431, 4435, 4444, 4450, 4467, 4475, 4476, 4483, 4499 Also see Fisher, LXI, and Sanyo
Sharp	4412, 4420, 4425, 4426, 4463, 4464, 4465, 4484, 4493
Signature	4431, 4464, 4497
Silver	4412
Simpson	4412
Sony	4425, 4471, 4509
Soundesign	4406, 4412, 4413, 4443, 4453, 4461
SSS	4412, 4413
Sylvania	4406, 4412, 4427, 4432, 4443, 4483, 4484, 4494, 4521
Symphonic	4414, 4415, 4520
Tandy	4483
Taiung	4418, 4429, 4482
Technics	4432, 4441, 4455, 4459, 4485, 4510
Techwood	4412, 4483
Teknika	4412, 4413, 4415, 4425, 4443, 4494, 4497, 4513
Telefunken	4412
TMK	4412
Toshiba	4412, 4431, 4467, 4476, 4479
Ultra	4494
Video Concepts	4413, 4466
Videokron	4512
Vidikron	4483
Vidtech	4412

Brand	Televisions
Wards	4412, 4420, 4422, 4423, 4443, 4463, 4465, 4483, 4497, 4521 Also see Signature 2000
XR 1000	4497, 4520
Yamaha	4412, 4432
Zenith	4416, 4433, 4443, 4476, 4494, 4497

Brand	VCRs
Aiwa	6603, 6626
Akai	6615
Beaumont	6610
Bell & Howell	6649
Broksonic	6606, 6673, 6687
Candle	6606, 6610, 6613, 6620, 6624, 6626, 6657, 6677 Also see Citizen
Canon	6624
Capelhart	6621
Citizen	6613, 6624, 6626, 6657 Also see Candle
Colortyme	6624, 6663
Craig	6629, 6691
Curtis Mathes	6607, 6610, 6613, 6620, 6624, 6626, 6645, 6663, 6672
Daewoo	6613, 6621, 6677 Also see Funai, Goldstar, Magnasonic, and Nikko
Daytron	6621
Denon	6636, 6668
Dynatech	6613
Electrohome	6606, 6612, 6643
Emerson	6606, 6608, 6612, 6613, 6616, 6620, 6626, 6646, 6649, 6656, 6659, 6661, 6663, 6669, 6673, 6687, 6695, 6696
Fisher	6613, 6614, 6649, 6652, 6680 Also see LXI, Sanyo, and Sears
Funai	6626, 6657 Also see Daewoo, Goldstar, and Magnasonic
Garrard	6626
GE	6610, 6624, 6663, 6671
Genexxa	6626
Go Video	6610, 6617, 6618, 6630, 6686
Goldstar	6608, 6610, 6637, 6641 Also see Daewoo, Funai, Magnasonic, and Nikko
Gradiente	6633
Granada	6606, 6612
Hitachi	6636, 6671, 6683, 6690
JBL	6666
JC Penney	6610, 6624, 6636, 6655
Jensen	6644
JVC	6605, 6633, 6636, 6644, 6649, 6661
Kenwood	6607, 6644, 6649, 6672
Lloyds	6626, 6657, 6672
Logik	6629
LXI	6626 Also see Sears, Sanyo, and Fisher
Magnavox	6606, 6613, 6624, 6629, 6631, 6656
Magnin	6610 Also see MGN
Marantz	6606, 6672
Matsui	6626
Matsushita	6624 Also see Panasonic
Memorex	6602, 6610, 6636, 6641, 6649, 6665, 6680
MGA	6612 Also see Mitsubishi
MGN	6610 Also see Magnin
Midland	6657
Minolta	6636
Mitsubishi	6612, 6632, 6643 Also see MGA
MTC	6626, 6629
Multitech	6626
NEC	6607, 6608, 6626, 6644, 6645,

Brand	VCRs
	6661, 6672
Panasonic	6613, 6624, 6629, 6656, 6658, 6663, 6699 Also see Matsushita
Pentax	6636, 6672
Philco	6606, 6624, 6626, 6631
Philips	6606, 6613, 6624, 6631
Pioneer	6609, 6631, 6678
Portland	6621
Proscan	6663 Also see RCA
Proton	6629
Pulsar	6610, 6624, 6626, 6657
Quasar	6624, 6663, 6699 Also see Technics
Radio Shack	6622 Also see Optimus, and Realistic
RCA	6605, 6609, 6610, 6624, 6636, 6658, 6660, 6663, 6671 Also see Proscan
Realistic	6604, 6610, 6624, 6626, 6628, 6652, 6665, 6680 Also see Optimus, and Radio Shack
Samsung	6610, 6626, 6657, 6658
Sansui	6629, 6673
Sanyo	6614, 6649, 6652, 6665, 6680 Also see LXI, Fisher, and Sears
Scott	6613, 6646, 6656, 6659
Sears	6613, 6614, 6624, 6626, 6636, 6649, 6652, 6665, 6676, 6680 Also see LXI, Fisher, and Sanyo
Sharp	6604, 6628, 6645, 6660
Shintom	6629
Signature	6665
Singer	6629
Sony	6615, 6619, 6627, 6644, 6666, 6683
Sylvania	6608, 6624, 6626, 6631, 6656
Symphonic	6604, 6626, 6657
Taiung	6644
Teac	6626
Technics	6624, 6681, 6682 Also see Quasar
Teknika	6624, 6626, 6660
Thomas	6626
TMK	6620
Toshiba	6601, 6612, 6613, 6614, 6684
Unitec	6657, 6658
Vector Research	6672
Video Concepts	6672
Wards	6604, 6606, 6610, 6613, 6626, 6628
XR 1000	6626, 6629
Yamaha	6644, 6672
Zenith	6641

Brand	Disc Players
Acurus	8730
Adcom	8852
ADS	8768, 8829
Aiwa	8698, 8740, 8785, 8802, 8829, 8838
Akai	8713, 8757, 8787, 8864
Arcam	8723
Audio Research	8723
BSR	8720, 8747
California Audio Labs	8730, 8794
Carver	8696, 8723, 8846
Craig	8801
Crown	8790
Curtis Mathes	8794
DBX	8715
Denon	8810, 8824, 8859
Emerson	8822
Fisher	8729, 8751, 8752, 8846
Garrard	8722
Harmon Kardon	8757, 8765
Hitachi	8732, 8806
JVC	8708, 8723, 8725, 8821, 8835, 8849

Brand	Disc Players
Kenwood	8699, 8700, 8705, 8775, 8816, 8869
Koss	8693, 8804
Krell	8723
Lloyds	8755
Luxman	8779, 8781, 8792
Magnavox	8696, 8723, 8859
Marantz	8696, 8714, 8723, 8769
McIntosh	8707
Meridian	8723
Mission	8723
Mitsubishi	8749, 8757
NAD	8721, 8749, 8764
Naim	8723
Nakamichi	8786, 8815, 8839
NEC	8762, 8852
NSM	8723
Onkyo	8963, 8703, 8712, 8733, 8734, 8736, 8749, 8816
Optimus	8698, 8717, 8726, 8765, 8776, 8809 Also see Radio Shack, and Realistic
Panasonic	8701, 8789, 8778, 8794, 8850
Parasound	8731
Philips	8696, 8723
Pioneer	8749, 8756, 8774, 8776, 8835, 8848, 8867
Proscan	8729
Quasar	8794, 8850
Radio Shack	8795, 8799, 8809, 8820, 8845 Also see Optimus, and Realistic
RCA	8729
Realistic	8727, 8731 Also see Optimus, and Radio Shack
Rotel	8702, 8723, 8731, 8745
Samsung	8761
Sansui	8696, 8723, 8753, 8777, 8840
Sanyo	8846
Sharp	8797
Sherwood	8695, 8719, 8735, 8795, 8799, 8820, 8845
Shure	8746

Brand	Disc Players
Sony	8694, 8751, 8756, 8760, 8763, 8802
Sylvania	8723, 8848
Teac	8702, 8721, 8731, 8739, 8742, 8774, 8789, 8829
Technics	8701, 8759, 8789, 8794, 8850, 8861
Toshiba	8749
Yamaha	8697, 8706, 8744, 8745, 8783, 8828, 8844, 8851, 8860

Brand	Amplifiers
Acoustic Research	9834
Adcom	9852
Alwa	9785, 9793, 9794, 9805, 9876, 9877, 9930
Akai	9745
Audio Source	9783
BSR	9821, 9855
Carver	9843, 9844, 9916
Craig	9939
Curtis Mathes	9836
Denon	9782, 9854, 9913, 9923
Fisher	9788, 9822, 9842, 9889
Fosgate	9770, 9797, 9838
GE	9756
Harmon Kardon	9840, 9898
Hitachi	9798
Jensen	9920, 9921, 9934
JVC	9744, 9823, 9890
Kenwood	9760, 9776, 9906, 9937
Koss	9935
Krell	9914
Lexicon	9810, 9839
Linn Wakonda	9914
Luxman	9790, 9799, 9909, 9919
Magnavox	9802, 9808, 9836, 9886
Marantz	9753, 9808, 9835, 9836, 9840, 9891, 9902, 9911
McIntosh	9754, 9903
Mitsubishi	9866
NAD	820, 9882

Brand	Amplifiers
Naim	9914
Nakamichi	9888, 9933
NEC	9820
Nikko	9892
Onkyo	9804, 9837
Optimus	9748, 9749, 9794, 9801, 9836, 9905, 9917, 9944 Also see Radio Shack, and Realistic
Panasonic	9911
Paramount	9827
Parasound	9796
Philips	9902
Pioneer	9757, 9836, 9896
Proscan	9809, 9878
Quasar	9911
Radio Shack	9814, 9905 Also see Optimus, and Realistic
RCA	9787, 9809, 9861, 9878
Rotel	8772, 9893
Sansui	9821, 9885, 9902, 9912
Sanyo	9842, 9885, 9889
Scott	9814, 9924
Seiko Instruments Inc.	9848
Sharp	9801
Sherwood	9752, 9777, 9846, 9904, 9905
Shure	9786
Sony	9818, 9833
SSI	9827
Teac	9762, 9814
Technics	9775, 9901, 9911
Toshiba	9931
Yamaha	9755, 9768, 9781, 9817, 9819, 9845, 9860, 9906, 9929
Zenith	9918, 9939

Using the Remote Control

Once you have your codes entered, you are ready to start using your Hitachi universal remote control. The device keys allow you to switch from one device to another. Some keys behave in a special way. They control one device while you are actually in another device mode. For instance, while in DSS mode, pressing Volume +/- controls your TV's volume—not DSS volume. This is because the remote control knows that there is no volume control on the DSS receiver.

Advanced feature keys (i.e. **MENU**, **EXIT**, etc.) are not supported for devices other than your DSS receiver and Hitachi devices. For other devices, only the primary keys (i.e. **▲** and **▼**, **POWER**, etc.) will function. For Sony-brand devices, use the **ALPHA** key as the "Enter" key. For RCA-brand devices, the device key (i.e. **TV** or **VCR**) is the power on keys and **POWER** is the power off key.

QUESTIONS AND ANSWERS

APPENDIX

A

Questions? Did We Forget to Tell You Something?

Many people, over time, have questions about their Hitachi digital satellite system. We have compiled the most common of these questions and the answers in this appendix. We hope they help!

Q I had a signal but now I am getting a message "Searching for signal. To access related utilities, press **SELECT**." What happened?

A Rain clouds and snow can affect the satellite signal reception. This loss of signal is temporary. Also check for new growth on trees and bushes that could be blocking the signal. One other possibility is that the wind or someone has moved the satellite dish.

Q Why can't I control my TV?

A Before you can control your TV, VCR, or any other device, besides your Hitachi digital satellite receiver, you must program your remote control to match your different devices. See Chapter 9, "Programming Your Hitachi Remote Control" in this manual for specific instructions. If you have already successfully programmed your remote control, try pressing the appropriate device key to put your remote in the proper mode. Then try controlling that device. Also, make sure that the batteries in the remote control are good.

Q My Hitachi digital satellite receiver does not respond when I press keys. What's wrong?

A Most likely, if the front panel keys work but the remote control doesn't work, try pressing the **DSS** key before trying to control the Hitachi Digital Satellite System. If that doesn't work, press the **(DSS/2)** key and try again. If that doesn't work, or if the front panel keys don't work either, unplug your DSS receiver for 30 seconds, then plug it back in. Since your DSS receiver is a computing device it is susceptible to erratic changes in power and/or signal, just as any other computer, and these sudden changes can cause it to become "confused."

Q Some channels look good, while others freeze or indicate that no signal is available. What's wrong?

A The most common causes for this behavior relate to the cable between your DSS receiver and the satellite antenna. Confirm that RG-6 (not RG-59) cable is used and does not exceed 100 feet in length. Longer cable runs require amplification. This special amplifier is available from your dealer.

Q How can I watch one DSS program while recording another?

A With only one DSS receiver, unfortunately, you can't. Each receiver can only decode one channel at a time. If you are lucky enough to have two DSS receivers installed, you can use the **DSS1/2** key to choose which DSS receiver you are controlling. You must set one receiver to be "DSS 1" and the other to "DSS 2" on the PREFERENCES screen.

Q I'm getting a message to call some extension. Why?

A There are many different reasons for this. If you want to watch the channel that is displaying the message, call the service provider for assistance. For channels below 900, call DIRECTV at 1-800-DIRECTV (347-3288). For channels in the 900s, call USSB at 1-800-204-USSB (8772).

Q Why don't I have an on-screen offer to purchase Pay-Per-View (PPV) programs?

A There are three possibilities; your DSS receiver must be connected to a phone line and it is not, or your service provider doesn't realize that your phone line is connected, or your service provider has disabled your ability to make on-screen purchases. Call your service provider, at either 1-800-DIRECTV (347-3288) or 1-800-204-USSB (8772), for assistance.

Q Can I receive my local TV programs through my DSS system?

A To receive local programming you will need either a traditional antenna (i.e. roof mounted, attic mounted or rabbit ears) or cable TV. Connect this signal to the IN FROM ANTENNA on the back of your DSS receiver. Use the **INPUT** key to switch between DSS programming and local programming provided on the OUT TO TV connector.

Q If I have questions about my Hitachi-brand DSS system or need to have it serviced, who should I call?

A Always call your dealer first. They are most familiar with your installation and needs. Also, they are likely to be local to you. However, if your dealer cannot resolve your problem, please contact us directly at 1-800-477-1212.

Q I think I set an event to record on my VCR, but when I played the tape back nothing was there. What could be wrong?

A There are several possible reasons for this. First, check that the VCR was left powered on and the input matches the output from your DSS receiver. Also test if the VCR Control cable and VCR coded is set properly by way of the Test button on the VCR SETUP screen. Also check if you were authorized to tape the chosen program. And finally, make sure in the future that you set programs that you want to record to be indicated with a video tape (📺) symbol.

Q I picked up my telephone and it was making a hissing and squealing sound. Why?

A Your DSS receiver was reporting any PPV activity that may have occurred to the service providers. This happens very rarely and lasts for only a minute or so.

Q What if my question isn't listed here?

A Call your dealer or Hitachi at 1-800-477-1212. We will do our very best to answer your questions.

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Revision A

Part # 1022510-0001



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