



This user guide is for use with DSR405 Digital Satellite Receivers

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Rev A

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General Instrument Corporation doing business as the Broadband Communications Sector of Motorola, Inc. (Motorola BCS)

6450 Sequence Dr.

San Diego, California 92121

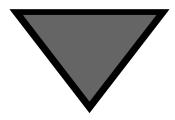
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Regulatory Information

Programming Copyright Notice

Use of this device may violate Section 605 of the Communications Act of 1934, as amended, if that use consists of the unauthorized interception and divulgence of radio communications for one's own benefit where there is no entitlement to its receipt.

Changes or modifications to this device not expressly approved by the party responsible for compliance with FCC regulations (the manufacturer) could void the user's authority to operate the equipment.

Resale of signals received from broadcast satellites is explicitly regulated. In any use or application involving resale or distribution, the user should verify compliance with current laws, regulations, and approved procedures for use. Where required, local and federal licensing or franchise authorization is the sole responsibility of the user.

Export of this device requires a valid export license issued by the U.S. Department of Commerce.

FCC-Required Notification of Service

The Impulse Pay-Per-View system is designed to be used on standard device telephone lines. The Impulse Pay-Per-View connects to the telephone line by means of a standard jack called the USOC RJ11C. Connection to telephone company-provided coin service (central office implemented systems) is prohibited. Connection to party line service is subject to State tariffs.

Telephone Company Procedures

In order for your telephone company to provide service to you, it may occasionally be necessary for them to make changes in their equipment, operations, or procedures. If these changes affect your service or the operation of your equipment, the telephone company should give you notice, in writing, to allow you to make any changes necessary to maintain uninterrupted service.

If you have any questions about your telephone line, such as how many pieces of equipment you can connect to it, your telephone company should provide this information upon request.

In certain circumstances, it may be necessary for your telephone company to request information from you concerning the equipment which you have connected to your telephone line. Upon request of your telephone company, provide the FCC registration number and the Ringer Equivalence Number (REN) of the equipment which is connected to your line; both of these items are listed on the equipment label. The sum of all the REN's on your telephone line should be less than five in order to assure proper service from



your telephone company. In some cases, a sum of five may not be usable on a given line. NOTE: The REN for the Digital Entertainment Receiver with Impulse Pay-Per-View is 0.3B.

If Problems Arise

If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm to the telephone network. If your telephone company notes a problem, they may temporarily discontinue service. When practical, they will notify you in advance of this disconnection. If advance notice is not feasible, you should be notified as soon as possible. When you are notified, you should be given the opportunity to correct the problem and informed of your right to file a complaint with the FCC.

FCC Certified

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.

FCC Part 68

This equipment complies with Part 68 of the FCC rules. Located on the equipment is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN). If requested, this information must be provided to the telephone company.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive REN's on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total REN's contact the telephone company to determine the maximum REN for the calling area.

This equipment cannot be used on the telephone company-provided coin service. Connection to party line service is subject to state tariffs.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice isn't practical, the telephone company will notify you as soon as possible. Also you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact:

Motorola Broadband Communications Sector 6450 Sequence Dr., San Diego, CA 92121 1-888-436-4678

If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved.

This equipment uses the following USOC jacks: RJ11C

It is recommended that the customer install an AC surge arrester in the AC outlet to which this device is connected. This is to avoid damaging the equipment caused by local lightening strikes and other electrical surges.

This equipment is Hearing-Aid Compatible (HAC).

The telephone consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time that it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.)

User Instructions

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and then on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into a different outlet so that the equipment and receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Motorola could void the user's right to operate the equipment and/or the equipment warranty.

Equipment Attachment Limitations

Note: This product was FCC certified under test conditions that included the use of shielded I/O cables and connectors between system components. To comply with FCC regulations, the user must use shielded cables and connectors and install them properly.

CP-01, Part 1, Section 10.1. "NOTICE: The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunication company cause to request the user to disconnect the equipment.

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Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

The standard connecting arrangement (telephone jack type) for this equipment is CA11A.

The Ringer Equivalence Number (REN) of this device is 0.3.

Operation Precautions

WARNING: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture. Do not open the unit. Refer servicing to qualified personnel only.

CAUTION: 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 to prevent blade exposure.

ATTENTION: Pour éviter les chocs électriques, ne pas utiliser cette fiche (polarisée) avec la prise d'une rallonge ou de tout autre prise de courant si les lames de la fiche ne peuvent être insérées á fond.



Lightning Flash Icon. The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's housing that may be strong enough to constitute a risk of electric shock to persons.



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

This digital apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Important Safeguards



Read, Follow and Keep Instructions. Before you operate the unit, read and follow all of the safety and operating instructions. Keep the safety and operating instructions for future reference.



Heed Warning. Pay attention to all warnings on the equipment and in the operating instructions.



Cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth to clean the outside of the unit. Do not open the unit for cleaning or any other reason.



Power Cord Protection. Place power supply cords so that they are not walked on or pinched by items placed on or against them. Pay particular attention to the cords where they join the plug, near convenience receptacles, and where they exit from the equipment.



Power Sources/Grounding. Operate the equipment from the type of power source indicated on the marking label. This product has a polarized alternating-current line plug as a safety feature. This plug fits into the power outlet only one way. If the plug does not fit,

contact your electrician to replace your obsolete outlet. Do not try to change the plug or defeat its safety purpose.



Ventilation. Do not block or cover the slots and openings of the unit. They provide ventilation and protect it from overheating. Never place the unit on carpeting, which it may block ventilation through the bottom slots. Never place the unit near a source of heat or in a built-in installation rack unless there is proper ventilation.



Do Not Operate near Water. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, swimming pool, laundry tub, in a wet basement, or in similar situations.



Objects or Liquid in the Unit. Never push any object into this unit through any of its openings because they may touch dangerous voltage points or short out the parts. This could cause a fire or any electrical shock. Do not spill liquid of any kind on the unit.



Overloading. Do not overload power outlets or extension cords. This can result in a risk of fire or electrical shock.



Damage Requiring Service. Unplug this equipment from the power source, and contact a qualified service provider if any of the following situations occurs:

- If the power supply cord or plug is damaged.
- If liquid or objects have fallen into the unit.
- If the unit became wet from rain or water.
- If the unit was dropped or damaged.
- If the unit's performance changes.



Service. Do not try to service this product yourself. If you open or remove the cover, you may be exposed to dangerous voltage or other hazards and may void the unit's warranty. Contact a qualified service provider for all service.



Mounting and Placement. Do not place this product on an unstable surface such as a cart, stand, tripod, bracket, or table. It may fall, causing serious injury to a child, adult, or to the unit itself. To mount the unit, follow the manufacturer's instructions, and use a mounting

accessory recommended by the manufacturer. Do not place this product directly on wood or simulated wood surfaces because these surfaces may be damaged.



Power Lines. Do not locate the satellite antenna system near overhead power lines, electrical light or power circuits, or where it can fall into power lines or circuits. When installing a satellite antenna system, avoid dangerous contact with power lines or circuits.



Outdoor Antenna Grounding. To provide some protection against voltage surges, lightning, and built-up static charges, make sure that the satellite antenna is properly grounded.



Outdoor Cable Protection. Protect all outdoor connections from moisture. During installation, treat all of the cable connectors on your LNB with coax seal, even if the connection



is installed under a weatherproof cover. Internal heating can draw moisture or condensation into the covering of the unit and affect its operation. Do not use silicone seal because it has a tendency to form air pockets.



Replacement Parts. If your receiver requires repairs, contact your equipment provider, who will be able to assist you.



Safety Check. After the unit is serviced or repaired, ask the service technician to perform safety checks to find out if the unit is in proper operating condition.



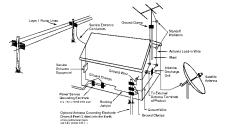
Lightning. To protect the product from damage caused by lightning and power line surges, unplug it from the wall outlet and disconnect it from the antenna or cable system before a lightning storm or if the unit will be left unattended or unused for a long period of time. Once a

storm passes, reconnect all antenna cables to the correct connectors. If you live in an area that has many lightning storms, buy polarized surge protectors and surge protectors for the power line, telephone line, and RF cable to protect your system from damage. Never attempt to connect or disconnect any wires during a thunderstorm or lightning storm.

Safeguard Instructions

- For the ground wire, use No. 10 AWG (5.3mm2) copper, No. 8 AWG (8.4mm2) aluminum, No. 17 AWG (1.0mm2) copper-clad steel or bronze wire, or larger.
- Secure the antenna lead-in wire and ground wires to the house with stand-off insulators spaced 4 ft. (1.22mm) to 6 ft. (1.83mm) apart.
- 3. Mount the antenna discharge unit as close as possible to the place where the lead-in enters the house.
- 4. Use a jumper wire that is no smaller than No. 6 AWG (13.3mm2) copper, or the equivalent, when using a separate antenna grounding electrode. See NEC Section 810-21(1).
- In areas that are heavily prone to lightning storms install a lightning rod mounted to the top of the antenna on the back side. Install a ground strap (2 AWG, or larger, of copper wire) from the lightning rod to the rest of the antenna ground system.
- Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information about the following items:
 - Proper grounding of the mast and supporting structure.
 - Grounding of the lead-in wire to the antenna discharge unit.
 - Size of grounding conductors.
 - Location of antenna-discharge unit.
 - Connection to grounding electrodes.
 - Requirement for the grounding electrode.

Note to the system installer: The purpose of this reminder is to call your attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. The illustration is an example of antenna grounding according to



the National Electrical Code Section 810, "Radio and Television Equipment." Check your local building and electrical codes for other restrictions on antenna grounding.

ATTENTION

This consumer unit is intended for the decoding of DigiCipher[®] II television signals for consumer use. Possession of this device does not enable or entitle the possessor to receive DigiCipher II television signals. Contact program providers to obtain appropriate authorization.

WARNING

The unauthorized modification of any decoder and the sale and use of any such decoder is prohibited by law. Any such modification or alteration of this product or any unauthorized reception of television programming could subject the user and/or seller and/or party modifying the decoder to fines, imprisonment and civil damages.

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Using Your Remote

All around the world, people just like you are enjoying entertaining, educational, and informational programming with the DSR405 digital satellite receiver. In addition to offering outstanding picture and sound quality, your receiver comes with a remote control that can be programmed to operate your receiver, TV, VCR and auxiliary equipment.

A Word About Modes. To enable the remote control to operate your receiver, your TV, and your VCR, it may have as many as four main modes of operation: SAT mode, TV mode, VCR mode and AUX mode. This means that when you press the SAT, TV, VCR or AUX keys on the remote control, you enable it to control each of these devices, one at a time. Naturally, some of the remote control keys have more than one function, depending upon which mode you are using at the time. Keep this in mind as you read the descriptions for each remote control key. Also keep in mind that some SAT functions are available only within SAT mode. Among these special functions are access to the menus through the OPTIONS key, use of the Interactive Program Guide (IPG) through the GUIDE key, and the ability to select a satellite by using the SAT key.

If You Misplace the Remote Control. If you ever misplace the remote control and need to use the various menus, just press the MENU key on the Front Panel and a special Menu screen will appear.





Key Functions

Power. To turn the component on or off.

Mode. To change the remote from control of the satellite to control of the TV.

SAT(**mode**). To change the remote to SAT mode so it can control the receiver for viewing satellite and cable TV signals as well as the OPTIONS menu.

TV(mode). To change the remote to TV mode so it can control the TV.

VCR(**mode**). To change the remote to VCR mode to control the VCR.

AUX(mode). To change the remote to AUX mode to control auxiliary components.

Source. To control the input source to your satellite receiver, your TV, your VCR or your auxiliary components.

- In SAT mode, it shifts between satellite or cable and antenna input.
- In TV mode, it shifts between auxiliary antenna and video sources.
- In VCR mode, it shifts between TV input and VCR input.
- In AUX mode, it allows input from auxiliary components.

PPV. To display the current Pay-Per-View selections.

Options. To exit any menu and display the Options menu.

Interests. To exit any menu and display the Interests menu. Press it again to remove the Interests menu and return to watching a program.

Browse. To view program information for channels and times other than the current channel and time while continuing to view a program. Press GO BACK to return to watching a program. Press ENTER to go to the program located in the Browse banner.

Guide. To display the Interactive Program Guide (IPG). Press it again to return to program viewing.

Go Back. To return to the previous menu.

Enter. For convenience, there are two ENTER keys. If you are using a menu, press ENTER to select a highlighted option. In SAT mode press ENTER to tune in the channel whose numbers you have already pressed.

Arrow Keys. To highlight selections from menu screens. Also used in the Browse banner to navigate between listings.

Exit. To exit any menu and watch a program or to display a program information if you are already watching a program.

Future. To display a program banner for what's on in the future while you are watching a program.

Last Ch. To return to the last channel viewed.

Info. To display detailed information about the current program or a highlighted program in the Guide. Press it again to turn the information off.

Vol. To raise or lower the volume level.

Mute. To mute the TV sound.

Chan. If you are using a menu, press to change channels without removing the menu. If you are using the Guide, press to move one page up or down.

Number Keys. These keys operate in different ways, depending upon which mode you are in:

- While using the menus, press these keys to select a numbered option.
- If you are watching a program, press these keys and ENTER to change channels. If the channel has three numbers, it will tune in immediately after you enter the third number. Generally speaking, cable TV channels (analog) are numbered 1-99, and satellite TV channels are assigned numbers 100 and above.

VCR Keys. The remote control has separate keys that operate the VCR's play (), stop (), pause (), fast-forward (), rewind (), and record functions. Press and hold the record () button then press play () to perform the record function.

Help. To display the help screens. Press it again to turn off the help screens and return to watching a program. If you occasionally forget what an icon (symbol) means or how to use one of the satellite receiver features, just press the HELP key to display the Help messages. Press the ENTER key to display each successive Help screen.



Some screens provide explanations that help you to use receiver features.

If you forget what certain keys or icons mean, just look them up by displaying this screen.



Programming the Remote Control

The remote control is set at the factory to control all of the satellite receiver functions, but to use it to operate your TV, VCR and auxiliary components as well, you must "program" it for the brand you own. Follow these instructions to program the remote to control your TV, VCR and auxiliary (AUX) components.

- 1. Turn on the connected component for programming.
- 2. Use the table that appears later in this section to find the brand of TV, VCR or auxiliary component.
- 3. After the manufacturer's brand name is a three-digit code number (or several three-digit codes).
- 4. Press and hold the TV, VCR or AUX key on the remote control for at least three seconds or until the light on your remote flashes.
- 5. If you are programming the TV or VCR key, continue with step 6. If you are programming the AUX key, first press the SAT, TV or VCR mode key to specify the type of device to be controlled before proceeding with step 6.
- 6. When the light flashes, key in the first of the three-digit codes (listed in the table) for your component using the number keys on the remote control. Make sure to do this accurately and without a long delay. If programming the AUX key for a satellite receiver use one of the following SAT codes: 000, 001, 002, or 003.
- 7. If the remote control "accepts" the code, you will see several rapid flashes of the light. If it does not flash, repeat steps 4, 5 and 6. After the remote control accepts the code, press the POWER key on the remote control to make sure the remote control is able to turn your component off. This means it is functioning properly.
- 8. If your component does not respond to the remote control POWER key, even though it has "accepted" the manufacturer's code, repeat steps 4, 5, and 6 using the second three-digit code from the table. If this does not work, try the third code, etc., until the remote control accepts the code and your component responds to the POWER key.

NOTE: Some cable box brands are also programmable using these instructions. Check the table that appears later in this section for applicable cable box brands and codes. You will press the TV key to program your cable box. Your remote can only accept a TV or cable box code for this programming step.

If Your Three-Digit Code is not in the Tables (Scanning)

If you try to program your remote control using the three-digit codes, and the remote control does not work correctly, you may be able to find a code that works by using the "scanning" process.

- 1. Turn on the TV or the VCR-depending upon whether you wish to program the remote control for your TV or for your VCR.
- Press the TV key (or VCR key) for at least three seconds or until the LED blinks.
- 3. The following steps explain how to "scan" through the TV (or VCR) codes stored in your remote control using the ♠ keys. (The LED will not be lit while the ♠ keys are depressed.
 - While pointing the remote control at your TV (or VCR), press the key to scan upward to the next code. (Use the ▼ key to return to the previous code.)
 - If the transmitted code is the correct one, your TV (or VCR) will turn off, responding as if its POWER key were pressed.
 - If your TV (or VCR) does not respond, depress the ▲ key to try the next code. When your TV (or VCR) turns on or off as a result of the transmitted code, you will know that you have found the correct code.
 - When you have found the correct code (power to your TV or VCR is toggled on or off), press the ENTER key. This will store the manufacturer's code. The LED will then flash rapidly several times and turn off.

NOTE: If your TV is not listed in the tables and/or the codes for your brand are not accepted by the remote, you will need to use the remote originally manufactured for your unit.

Programming the Master Power Feature

If you wish to control the power on/off function of your satellite receiver, VCR, TV, and all connected equipment with a single press of the POWER key on your remote control, you can enable (or disable) the remote control's Master Power feature by following these steps:

- Press the SAT key on the remote control for at least three seconds or until the light on the key blinks.
- Press the POWER key on the remote. The light will remain on steady. Press the
 power key a second time, and the light on the remote will blink on and off
 briefly, which indicates that the remote has accepted the Master Power
 command.



Verifying Your TV, VCR and AUX Mode Codes

You can verify the accepted programming codes for each mode by following these steps.

- Press the TV, VCR, AUX key for at least three seconds or until the LED blinks.
- 2. Press the "INFO" key.
- 3. The LED will blink, indicating the code of your TV, VCR or auxiliary component in the following sequence. For example, if your TV code is for a Tandy brand TV (code 105) the blink pattern will be:
 - Pause>long blink "1;"
 - Pause>short blink "0:"
 - Pause>long blink, long blink, long blink, long blink "5."

A zero in the code will always be represented by a short blink.

4. For the AUX mode only, after the code is verified the appropriate mode key will blink to indicate the component being controlled.

If You Have More Than One Satellite Receiver

If you have more than one satellite receiver, you may want to prevent the remote controls from affecting the other receivers. To prevent this kind of interference, you must "pair" each remote control with one receiver. In order to do this, you will have to assign a new "address" to each pair of remote controls and receivers so that each pair functions independently of the others. If you have two or more receivers, see Chapter 10 for information about the procedure for changing addresses.

Replacing the Remote Control Batteries

When the remote control batteries are worn out (discharged), the remote will stop working. Replace the batteries as soon as possible to retain your programmed codes. Once you remove the batteries from the compartment, you must replace them within two hours to retain your programmable features. The remote control for this unit may be powered by two AA batteries. Use only high quality, non-corrosive batteries designed for use in electronic equipment. Remember to replace both batteries at the same time. To replace the batteries:

- Remove the cover by pressing down the back panel indentation and removing the panel off the remote control.
- Position each battery in the battery compartment so that the flat base (-) is against the spring and so that the raised contact (+) is against the terminal. Make sure the batteries are securely seated.
- Replace the cover.

"Remote Energy Saver"

If you misplace your remote (i.e., it is stuck in your couch), and a key is inadvertently pressed, the remote will automatically turn itself off after three minutes

TV Codes (To program AUX, press TV mode key)

A dusing1	
A-Mark	120,224,225
Aiwa	
Akai	
	033
	211
AOC	
Archer	120
ASA	
Audio Dynamics	234
Audiovox	
	019
Centurion	
Citizen	. 006,016, 018,022,023,024,025,026,144, 163,202,213,224
Concerto	
Contec	
Curtis Mathes	006,016,018,026,059,125,163,172,192,194,202,224,231



	005,024,026,029, 030,031,032,130,172,214,215,224,233,252
Daytron	
DBX	234
	017,023,026,028,033,034,035,037,038,039,041,122,141,143,
	4,172,176,187,203,204,205, 219,222,223,224,225,226,227,251,253
	042,090,099,216,217
	041
	8,009,023,043,044,125,130, 134,147,172,195,206,207,211,228,231
	5,023,026,045,046,088,172,173,194, 213,223,224,225,230,234,254
Infinity	
JBL	
Logik	
	003,010,066,090,117,125,129,131,134,172,173,194,223,251,254
	000,006,008,010,017,020,025,027,028,066,067,068,110,144,151
Magnavox	154,163,164,167,172,173,175,192,194,218,224,225,231,251
Majestic	
Marantz	
	004,005,023,034,070,071,072,122,123,149,172,173,187,192,194
NAD	
	005,006,007,023,028,090,144,163,172,173,191,192, 194,213
National	
Onwa	041
Optimus	
Optonica	
Orion	
Osume	
Panasonic	
Philco	
Philips	

Pioneer	
Portland	
Proscan	
Proton	
Pulsar	
Quasar	008 009 195 211 231 232
Radio Shack	026 041 112 141 172 104 224 220 220 222
RCA	02 005 000 014 040 070 070 000 002 004 005
2	
Realistic	
SAA	
Saba	
Saisho	
Sampo	
Samsung	005,006,016,023,026,032,088,112,163,172
	173,192,194,202,213,221,224,225,229,233
Sansui	
Sanyo	
Scott	
Sears	
Sharp	
Signature	
Sony	
Soundesign	
Spectricon	
SSS	
Supra	
Sylvania	68.110.112.151.163.172.173.192.194.229.251
Symphonic	
Tandy	
Tatung	
Teac	
Technics	
Techwood	
Teknika.	
текпіка	004,005,016,018,022,023,024,025,026,034
	7/2,114,149,151,18/,202,213,223,224,225,251
Telerent.	
Teletech	
Thomson	
TMK	023,172,213
Toshiba	47,090,096,117,118,131,180,201,202,216,233
Totevision	026,223,224
Universal	
Vector Research	
Victor	
Video Concepts	
Videch	
Viking.	
Wards	
Westinghouse	
Yamaha	
Yorx	
Zenith	
Zonda	



Cable Boxes (To program AUX, press VCR mode key)

General Instrument.	
Jerrold	235,236,237,238,241,242,243
Panasonic	249,250
Pioneer	244,245,246
Scientific Atlant	
Spruce	249
Starcom	235
Tocom	241,242,243
Videoway	248
Zenith	

DVD Codes (To program AUX, press VCR mode key)

Denon	
Fisher	
Funai	
General Electric	
Goldstar	
Hitachi	226
Kenwood	
Magnavox	228,229,230,231,232,252
Mitsubishi	
NAD	
Onkyo	
Panasonic	. 235,236,237,238,239,240,241,242
Philips	
Pioneer	
Proscan	
Quasar	
RCA	245,246,247,248,249,250,251
Radio Shack	225
Samsung	230
Sharp	253
Sony	215,216,217,218,219,220
Technics	
Toshiba	
Yamaha	239,254,255
Zenith	221,230,252

VCR Codes (To program AUX, press VCR mode key)

Aiwa	
Akai	008,013,,014,015,016,018,019,020,145,157,198,210
Alba	
Amstrad	
ASA	
Audio Dynamics	
Broksonic	
Bush	
Cannon	
Canon	
Capehart	
Citizen	
Craig	

Curtis Mathes	
Daewoo	
Daytron	
DBX	
Dual	
Dumont	
Dynatch	
Electrohome	
Emerson	
FergusonFinlandia.	
Finlux	
Fisher	
Funai	
General Electric	
Go Video	
Goldstar	
Graetz	
Granada	
Grundig	
Harman/Kardon	
Hinari	
Hitachi	
ITT	
Instant Replay	020 052 054 090 091 001 002 004 194
JCL	184
Jensen.	
JVC	
Kenwood	
Lloyd	
Logik	
Magnavox	027 034 054 065 088 111 130 134 136
·····	
Marantz	
MEI	
Memorex	033,049,054,066,081,082,085,088,184,214
MGA	
Minolta	
Witsubisiii	
MTC	
Multitech	
NAD	
National	
NEC	
Nordmende	
Optonica	
Panasonic	
Pentax	
Philco	
Philips	
Pioneer	
Portland	
Proscan	



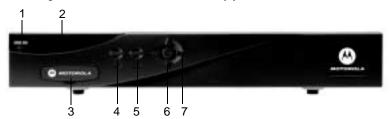
Pulsar
Quartz
Quasar
Radio Shack
RCA
Realistic
Saba
Saisho
Salora
Samsung
Sansui
Sanyo
SBR
Schaub Lorenz
Schneider
Scott
Sears
Sentra
Sharp
Sony
Sylvania
Symphonic
Tandy
Tashiko
Tatung
Teac
Teknika
Telefunken
Thomson
Thorn
TMK
Toshiba
Totevision
Unitech
Vector Research
Video Concepts
Videosonic
Wards
Yamaha
Zenith
Zeniui



Using Your Receiver

Most viewers find it more convenient to use the keys on the remote control rather than the keys on the front panel of the receiver. But even though there are far fewer keys on the receiver, they still allow you to control most receiver functions. After plugging in your receiver, allow it to "warm up" for 30 seconds before using it.

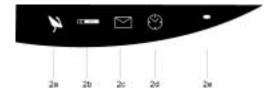
Make sure to tune your TV to Channel 3 or 4 (the channel you use for your VCR) when using the receiver if instructed to do so by your installer.



Front Panel Key Descriptions

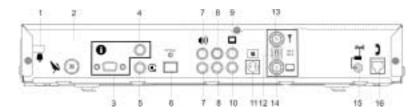
- **1. POWER.** Press this key to turn the receiver power on/off and to watch programs in SAT mode.
- **2. FRONT PANEL DISPLAY.** This area displays a flashing indicator each time you press a remote control key.





- **2a. SIGNAL.** An indicator lights up when a satellite signal is present. Green indicates a good signal. Red indicates no signal.
- **2b. DOLBY DIGITAL**[®]. This indicator lights up when the unit is receiving a signal using Dolby[®] brand AC-3[®] Digital encoding.
- **2c. MAIL.** This indicator lights up if you have an unread message in the mailbox.
- **2d. TIMER.** A steady light indicates the timer system is set. The indicator flashes when the timer system is within two minutes of being activated or if it is active.
- **2e. REMOTE.** An indicator dot blinks each time you press a key on the remote control.
- **3. TVPASS® CARD.** In the event of certain types of data security problems, your service provider may decide to utilize an authorization feature called TVPass card. This plastic card (smaller than a credit card) fits into a slot on the lower left corner of the receiver's front panel.
- **4. GO BACK.** Press this key to return to a previous menu or the last channel viewed.
- **5. MENU.** Press this key to display the Menu screen. Press it again to turn off the Menu and return to a SAT mode. Press this key to control the receiver if you cannot find your remote control.
- **6. ENTER.** Press this key to select a highlighted menu option.
- 7. ARROW KEYS. Press these keys to highlight selections from menu screens. The ♠ keys also change the channel.

Back Panel Connections



- 1. POWER. Provides power to the unit.
- 2. SATELLITE IN. This terminal receives LNB input.
- **3. DATA PORT.** This port is for future applications and requires a special connection.
- **4. ASYNCHRONOUS DATA.** This connection is used for data applications.
- **5. DOLBY DIGITAL AUDIO.** This output provides PCM formatted digital audio or Dolby AC-3 formatted digital audio when the receiver audio mode is set to Dolby. When it is set to Dolby the output will be Dolby AC-3 Version 5.1 (six channel) surround sound when the audio is being sent in that format.
- **6. OPTICAL AUDIO.** This output provides PCM formatted digital audio or Dolby AC-3 formatted digital audio when the receiver audio mode is set to Dolby. When it is set to Dolby the output will be Dolby AC-3 Version 5.1 (six channel) surround sound when the audio is being sent in that format.
- **7. AUDIO OUT (R L).** These are audio outputs, which may be used to connect to your TV or VCR. Volume levels are not adjustable.
- **8. TO TV.** This is a standard video output terminal.
- **9. TO VCR.** This video output jack may be connected to your VCR input connections for VCR taping.
- **10. SVHS.** This connection is for Super VHS (SVHS) connections (also called S-Video).
- 11. OUT TO TV. This supplies the VHF signal to your TV.
- **12. CH3 CH4.** This switch determines the channel (3 or 4) to which you set your TV to receive satellite broadcasts. The setting should be the same as the TV setting for use with your VCR (usually channel 3).
- 13. ANTENNA IN. This is an off-air antenna terminal.
- **14. UHF REMOTE.** This is the connection for the remote control antenna. This is an optional upgrade available through your distributor.
- **15. TO PHONE JACK.** This is a telephone jack connection.





Installation

Guidelines for Installing the System Yourself

If you do not hire a professional to install your satellite dish and receiver, there are some basic procedures that you should follow. You should also refer to any information that was provided with your purchase about the dish, mounting hardware, and specific adjustments to make for your geographic location.

Equipment You May Need

We recommend using the following tools:

- · Drill and various drill bits
- Wrenches
- Screwdrivers
- Compass
- · Plumb line and bubble level
- Signal level meter
- You will also need the information supplied with your system.
- The telephone number for the company that provides your programming subscription
- · The channel map download channel
- The authorization channel



- Instructions on how to properly adjust your satellite dish for your geographic location:
 - How to adjust the "hands-of-the-clock" position of the LNBF (feedhorn) on your satellite dish
 - How to adjust the elevation setting for your satellite dish
 - How to adjust the compass direction setting for your satellite dish

Assemble and Mount the Satellite Dish

It is important to follow all local building and electrical codes and avoid contact with any power lines, lights, and power circuits when you install the satellite dish.

- Place the satellite dish within 25m (75 ft.) of the receiver if possible.
- Make sure the dish will have a clear line of sight to the satellite all year round.
 Refer to the information supplied with your system for the elevation and compass direction.
- Note the location of nearby buildings, fences, trees, and future tree growth that will interfere with a clear line-of-sight between the satellite dish and satellite.
- Avoid locations exposed to high wind, soot or ashes from a chimney or vent, or locations where people, vehicles, or animals will jostle the dish.
- Mount the dish on a solid, stable surface if you do not mount it on a metal pole cemented securely into the ground. The satellite dish must be in a true, upright position that is perpendicular to the ground in all directions.
- Make sure you have easy, safe, year-round access to the mounting location.
- Make sure to properly ground the dish and coaxial cable.

Assemble and mount the dish according to instructions.

Overview of Pointing the Satellite Dish

The receiver uses signals that are broadcast from a satellite located in a stationary orbit 22,500 miles above the equator. It is important to accurately point your satellite dish at the satellite or you may lose the signal during inclement weather or when minor interference is present. When you point the satellite dish, you will be concerned with up to three kinds of adjustments depending upon your geographic location:

- First, if your satellite transmits signals either horizontally or vertically, you
 must adjust the position of the LNBF so that it is properly aligned to receive
 these horizontal or vertical signals.
- Second, adjust the elevation of the satellite dish.
- Third, adjust the compass direction.

Initial Adjustment to the LNBF

You will need to mount and make an initial adjustment to the low noise block feed (LNBF or feedhorn) so that it is in the correct position for the city (or geographic location) in which you live. Refer to the information supplied with your system. While you are facing the front of the satellite dish, mount the LNBF in the housing as indicated in the instructions for your dish. If necessary, loosen the clamp screw(s).

- As you look at the LNBF, try to think of its position in terms of the hands of a clock. In particular, try to think of the LNBF's F connector (the point where the wires attach) as the hour hand pointing to one of the numbers on the face of a clock. Point the LNBF as indicated in your instructions.
- Once you have correctly pointed the LNBF, tighten the LNBF clamp screw(s), but don't tighten them completely. You may need to make a slight adjustment later on.

Initial Adjustment to the Elevation Setting

Now you will need to make an initial adjustment to the elevation setting of the satellite dish—the distance above the horizon to which it points. Your dishmounting bracket may have a scale marker.

- Refer to the information supplied with your system, and set the elevation that is appropriate for the city in which you live.
- If the information supplied with your system does not list a city within a few
 miles of your location, choose the nearest city to your location. Then
 determine how far you are located to the north or south of that city. Since the
 elevation setting for your location will change by approximately one degree
 for every 160.9 km (100 miles) that you are north or south of the equator, you
 can adjust the satellite dish elevation in the following way:
 - Add one degree for every 160.9 km (100 miles) that your location is farther away from the equator than the listed city.
 - Subtract one degree for every 160.9 km (100 miles) that your location is closer to the equator than the listed city.
- Your adjustments must be accurate within one-half of a degree, which can be as little as 1 mm (1/32"). So use great care in adjusting this setting.
- Once you correctly set the elevation setting, tighten the nut(s) just enough to hold the dish in place.



Initial Adjustment to the Compass Direction Setting

To make an initial adjustment to the compass orientation of the satellite:

- Use the wrench to loosen the bolt(s) so that you can turn the satellite dish on the mounting pole to change its compass direction. Then point the dish so that it faces directly south (if you are in the Northern Hemisphere) or directly north (if you are in the Southern Hemisphere).
- Refer to the information supplied with your system, and again find the compass setting (also called the azimuth) for the city nearest to where you live. It is measured in degrees.
- Turn the satellite dish so that the LNBF support is pointing to the correct
 degree setting. To do this, use a compass to determine the correct direction.
 Then mark the position for the compass setting about 5 meters (15 feet) away
 from the satellite dish. Point the satellite dish as accurately as possible toward
 the marker.
- Choose the nearest city to your location (the same one you chose when you
 adjusted the LNBF position and the elevation). Then determine how far you
 are located to the east or west of that city. Since the compass setting for your
 location will change by approximately one degree for every 160.9 km (100
 miles) that you are east or west of the listed city, you can adjust the satellite
 dish compass setting in the following ways:
- If you are located in the Northern Hemisphere:
 - If your location is east of the listed city, compensate by moving the dish clockwise by one degree for every 160.9 km (100 miles) that you are east of the listed city.
 - If your location is west of the listed city, compensate by moving the dish counterclockwise by one degree for every 160.9 km (100 miles) that you are west of the listed city.
- If you are located in the Southern Hemisphere:
 - If your location is east of the listed city, compensate by moving the dish counterclockwise by one degree for every 160.9 km (100 miles) that you are east of the listed city.
 - If your location is west of the listed city, compensate by moving the dish clockwise by one degree for every 160.9 km (100 miles) that you are west of the listed city.
- Tighten the bolt(s) on the mounting pole enough to hold the position in place so that you can still move it a little at a time. You will fine-tune its position later

Connecting the Satellite Dish, Receiver, and TV

Complete the following steps, and make sure that the satellite receiver is not plugged into a power source before you connect any cables to the receiver:

- Connect the cable from the satellite dish to the satellite terminal on the satellite
 receiver's back panel. connect the supplied three-wire (red, yellow, and white)
 cable from the TV terminal on the satellite receiver's back panel to TV IN (or
 coaxial cable to VHF IN) terminal on your TV.
- On the back panel of the satellite receiver, set the CH3 CH4 switch which is located just above the TV terminal— to the same channel that you set on your TV for use with your VCR.
- Turn on the TV and tune it to channel 3 or 4 to match the position of the switch on the back panel of the satellite receiver.
- Plug the satellite receiver power cord into a standard power outlet. Wait one
 minute, and then press the POWER key (green) on the left side of the satellite
 receiver's front panel.

Using the Menus

You will be making various adjustments to your receiver using the keys on the remote control or receiver.

If you use the keys on the remote control to control the menus, there are two ways to select a menu option:



• If the options are numbered, simply press the number key for an option.

You may use the remote control, but if you use the keys on the front panel of the receiver, there is only one way to select a menu option.



Choosing the Menu Language

To make sure that the menus are displayed in the appropriate language for you, complete the following steps:

- While your receiver is turned on, aim the remote control at the receiver and press the OPTIONS key. The Options menu will appear.
- From the Options menu, select option 6 (Change System Settings), and the System Settings menu will appear.
- Select option 1 (Change Viewing and Language Settings), and the Viewing & Language Settings menu will appear.
- Option 3 shows you the language options available for the menus.
 Press the ▲ ▼ keys on the remote to select your language.



 Once you have chosen a language, press the GO BACK key until you return to the Options menu or press the EXIT key to exit and return to watching programs.

Acquiring a Signal

Complete the following steps to help you acquire a signal:

- Using the number keys on the remote control, tune to the authorization channel (refer to the information supplied with your system). You should see a banner with the channel number at the top of the screen.
- Press the OPTIONS key on the remote control. The Options menu will appear.
- From the Options menu, select option 6 (Change System Settings), and the System Settings menu will appear.
- Select option 3 (Change Installation Settings), and on the Installation Settings menu select option 1 (Tune in Satellite Signal).
- Look at the value in the box labelled Signal. If it is less than 10, make sure that all connections between the satellite dish LNBF and the satellite receiver are correct. If the signal strength remains below 10, adjust the position of the dish in very tiny increments until you receive a satellite signal above 10.

- Using the number keys on the remote control, enter the Provider ID supplied by your service provider (refer to the information supplied with your system).
 You can use the ◀ key on the remote control to back up and make corrections.
- If the satellite dish is pointed at the correct satellite, the large field in the center
 of the screen will turn green and display the message "Correct signal found". If
 you do not see this message within 5 to 10 minutes, the satellite dish may be
 pointed at the incorrect satellite. Try again from the beginning to correctly
 position the satellite dish before attempting to Fine-Tune (or Peak) the signal.
- If the screen displays the "Correct signal found." message, do not clear the screen. Continue with fine-tuning the signal.

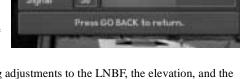
Tune in Satellite Signal

1. Provider ID

Overview of Fine-Tuning (Peaking) the Signal

You should have the assistance of a second person to monitor the television screen while you complete the adjustments to the satellite dish in this section.

 While your assistant watches the Signal number on the Tune in Satellite Signal menu (see previous section, "Acquiring a Signal"),



Correct signal found.

you will make fine-tuning adjustments to the LNBF, the elevation, and the compass setting.

Satellite

In addition to using the Signal reading, which appears on the Tune in Satellite
Signal menu on your TV screen, you may wish to use an external signal level
meter to verify the signal strength while you make fine-tuning adjustments for
the LNBF, elevation, and compass direction setting. As mentioned earlier, do
not try to determine the strength of the signal by judging the clarity of the
picture on the TV. Digital reception cannot be adjusted in this manner.

NOTE: As the signal grows stronger, the bar graph for signal strength will become longer and its color will change from red to green. Also, a beeping tone will change into a monotone.



Fine-Tuning the LNBF Setting

This adjustment is not needed for models with circular polarity.

- Rotate the LNBF in a clockwise direction in very small increments. Each time
 you move the dish wait five seconds while your assistant checks the Signal
 reading. Determine where the signal begins to weaken and mark the location.
- Rotate the LNBF in a counterclockwise direction in very small increments.
 Wait five seconds while your assistant checks the Signal reading. Determine where the signal begins to weaken and mark the location.
- The optimum position is midway between the two points you marked in the previous steps. This position should provide the strongest Signal reading.
- Then move the LNBF in and out. There is a small adjustment range (1-1/2" or 4 cm) to find the best Signal reading for the LNBF.
- Tighten the LNBF clamp screw(s) so that the LNBF cannot move.

Fine-Tuning the Elevation Setting

- Raise the position of the satellite dish in very small, 1 mm (1/32") increments.
 Each time you move the dish, wait five seconds while your assistant checks the Signal reading on the Installation Settings menu. Mark the location where the signal begins to weaken.
- Lower the position of the satellite dish in very small, 1mm (1/32") increments. Each time you move the dish, wait five seconds while your assistant checks the Signal reading on the Installation Settings menu. Mark the location where the signal begins to weaken.
- The optimum elevation position is midway between the two points you marked in the previous steps. This position should provide the strongest Signal reading.
- Tighten the nut(s) on the mounting bracket so that it cannot move up or down.

Fine-Tuning the Compass Direction Setting

- First, turn the satellite dish clockwise in very small, 1 mm (1/32") increments. Each time you turn the dish, wait while your assistant checks the Signal strength reading on the Installation Settings menu. When the receiver acquires the satellite signal, the signal strength will increase. Continue to move the satellite dish clockwise, and when the signal strength begins to decrease, mark the location on the mounting pole.
- Next, turn the satellite dish counterclockwise in very small, 1 mm (1/32")

increments. When the signal strength begins to decrease, mark the location on the mounting pole.

- The optimum compass direction setting is midway between the two points.
- Tighten the bolt(s) on the mounting pole so that it cannot move east or west.

Authorizing Your Receiver

- Press the EXIT key on the remote control. Then press the number keys for the authorization channel.
- Press the OPTIONS key on the remote control. The Options menu will appear.

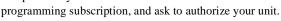
N. Pularization: Horiz_Leff O. Hours since last standby: 0 P. Modem: Tone Q. Current Version: 00000099 R. Target Version: 00000000 S. Gatekeeper: 22

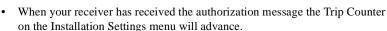
1652

Press GO SACK to return.

On-hook

- From the Options menu, select option 6 (Change System Settings), and the System Settings menu will appear.
- Select option 4 (Check System Status), and the System Status menu will appear. Line A shows your Unit ID number.
- Telephone the company that provides your





Trip Counter

Modern Status

Completing the Receiver Connections to Your Entertainment System

You will need to make changes to connect your VCR.

- Connect the top/left TV terminal on the back panel of the receiver to the IN terminal on the VCR. If you had already connected this cable to your TV you must disconnect and connect it to your VCR.
- Connect the OUT terminal(s) on the VCR to the VHF IN terminal(s) on the TV



Connections to Audio/Video Monitor

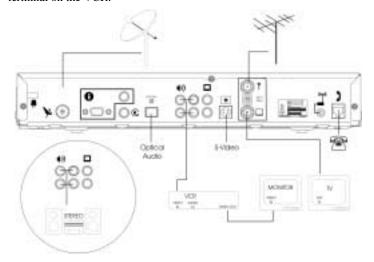
Complete the following steps if you only plan to connect the satellite receiver to an audio/video monitor:

- Using standard RCA-type audio/video cables, connect the top/left TV
 (VIDEO output) terminal on the rear panel of the receiver to the video input
 terminal on the monitor (or TV using the baseband inputs).
- Using standard RCA-type audio/video cables, connect the two bottom/left speaker (R and L) terminals on the back panel of the receiver to the audio input terminals on the monitor (or TV using the baseband inputs).

Connections to Audio/Video Monitor and VCR

Complete the following steps if you plan to connect the satellite receiver to an audio/video monitor and VCR:

 Using standard RCA-type audio/video cables, connect the top/right TV (VIDEO output) terminal on the Rear Panel of the receiver to the video input terminal on the VCR.



- Using standard RCA-type audio/video cables, connect the two bottom/right Speaker Icon (R and L) terminals on the Rear Panel of the receiver to the audio input terminals on the VCR.
- Using standard RCA-type audio/video cables, connect the audio and video inputs on the audio/video monitor (or TV using baseband audio/video inputs) to the outputs on the VCR.

 If your entertainment center is enabled for Dolby Digital AC-3 Version 5.1 (six channel) surround sound, connect this port to one end of the orange RCA cable and the other end of the orange RCA cable to your surround processor.

After you complete the installation procedures, you may wish to use the on-screen menus to make adjustments to the satellite receiver's operation.

Additional Features

Options. The Options menu provides access to all of the on-screen menus. It appears when you press the OPTIONS key on the remote control or when you press the MENU key on the receiver followed by selecting OPTIONS from the main Menu.

System Settings. The System Settings menu provides access to menus that allow you to adjust the operation of your system.

Viewing and Language Settings

The Channel Information option allows you to turn the header (top of screen) and banner (bottom of screen) on or off. The default setting is On.

Subtitles. The Subtitles option allows you to select the language for subtitles (if available for the particular program) or keep them turned off. The default setting is None.



Language. The Language option allows you to select the language of the onscreen menus and audio for your programs. The default setting is English.

TV Viewing. The TV Viewing option allows you to select the size of the viewing area. Select the Standard option if your TV screen is a typical screen with a 4:3 ratio of width to height. Select Wide if your TV screen is a wide screen with a 16:9 ratio (as in HDTV's or digital TV's). The default setting is Standard.



Audio Settings

If you are in SAT mode (digital) broadcast, two options appear on the Audio Settings menu.

Audio Connections, Select option 1 (Audio Connections), and you will be able to select either TV or HiFi (the default is TV). Select TV if the receiver's AUDIO OUT port is connected to your TV. Select



HiFi if it is connected to your stereo system.

Satellite Audio. Select option 2 and then select Mono, Stereo, Surround or Dolby Digital (the default is Surround). The Dolby Digital selection will disable other audio ports.

Installation Settings

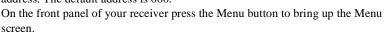
Tune in Satellite Signal. This option allows you to see the strength of the signal your antenna is receiving.

Set VCR Code. This option allows you to store your VCR code in your receiver. When you use timers and want to record your favorite program, your receiver will control your VCR.

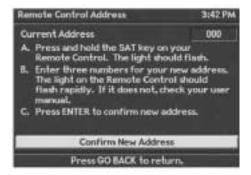
Set Remote Control Address.

This option allows you to control up to four receivers in a centralized area, with one or more remote controls. Each receiver requires a separate

address. The default address is 000.



Choose Options.



- Choose option 6 (Change System Settings).
- Choose option 3 (Installation Settings).
- On the Installation Settings menu, choose option 2 (Set Remote Control Address). Now follow the instructions on the Remote Control Address screen.
- If you have four receivers, you will have to change the addresses on three of them: they will have address of 000, 001, 002, and 003.

To program your remote control for each receiver, hold down the SAT key on the remote control until the light flashes. Once the light begins to flash enter the desired address.

System Status

This is a view-only screen that displays information about the status of the receiver.

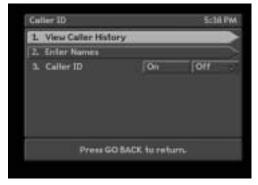
Trip Counter. Trip Counter displays the number of message updates from your service provider.

Modem Status. Displays a number of messages that describe the current modem status.



Caller ID

When your telephone rings the Caller ID feature allows you to see who may be calling. This feature is only available if Caller ID functionality is enabled by your telephone company. See the "Options" section for more detailed information.





Authorization Screens

Sometimes when you tune to a program, an Authorization screen will appear. It will fade to black after a short time, it will reappear when:

- The channel or program is locked out because of your parental control setting, which requires you to enter a password. (If you have not set a password, just press the ENTER key.)
- · The receiver is not authorized.
- A subscription is required to receive the program.
- · There is a program blackout in your area.
- There is a technical problem.
- You need to insert a TVPass card, or there are problems with your current TVPass card.

TVPass Card

In the event of certain types of data security problems, your distributor may decide to utilize an authorization feature called TVPass card. This plastic card "module" fits into a slot on the lower left corner of the receiver's front panel.



Watching TV

Once you become accustomed to the various controls and features, you will spend most of your television viewing time enjoying the programs made available through the satellite receiver. The features described in this section will be available to you when the remote control is set to SAT mode—in other words, when you have pressed the SAT key and are viewing various programs.

How to Select Menu Options

As you use the many menus, you will be asked to select various options. When you see the word *select*, it is important that you understand what to do—whether you use the remote control or the keys on the Front Panel of the receiver:

If you use the remote control, there are two ways to select a menu option:

- 1. Press the \blacktriangleleft keys or the \Leftrightarrow keys to highlight an option. Then press the ENTER key to select it.
- 2. If the options are numbered, simply press the number key for an option. You do not have to press the ENTER key.

If you use the Front Panel of the receiver, there is only one way to select a menu option. Press the ◀ ▶ keys or the ♣ keys to first highlight an option. Then press the ENTER key to select the highlighted option.

Headers

Your viewing screen displays a variety of information about the programs you are viewing or plan to view. When you tune in a channel, a header appears at the top of the screen. It displays the following information from left to right:



• Interests—Until you identify your viewing interests (covered later in this *User Guide*), nothing appears on the left side of the header. After you select an interest such as movies, sports, Pay Per View, or music/radio, the name of the interest you selected will appear on the left side of the header.



- Channel name—NBC®-W, BravoTM Network, History ChannelTM, etc.
- Channel number—A number from 1 to 999.
- Message—An envelope icon appears if a message is waiting for you.
- Time—The current time automatically appears on the right side of the header.

Banners

Program banners appear at the bottom of the screen:

On Now banner—When you tune in a channel, this banner displays the current program title, start and end times, and rating icon. Press EXIT to remove the banner.

While you are viewing a channel, if you press the FUTURE key, the Browse Banner displays the next program's title, start and end times, and ratings icon. Press EXIT to remove the banner.

Info Banner

To obtain detailed information about the current program, press the INFO key.

To obtain detailed program information about the next program on a selected channel, press the INFO key and then press the FUTURE key or the key. If the On Next Banner is already displayed at the bottom of your screen, just press the INFO key to display more detailed information about the next program. Press the key to return to the information display for the current program.

Browse Banner

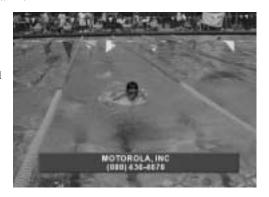
Browse is used to view current program information while viewing a program. Browse is also used to view information for channels and times other than the current channel and time. Press GO BACK to return to watching a program. Press ENTER to change channels to the program located in the Browse banner or set timers for future programs.



- Press GO BACK to return to watching a program.
- Press FUTURE to go to a different day and/or time.
- Press the \triangle keys to scroll through the channels.
- Press the keys to scroll through the next or previous program.
- Press ENTER to change channels to the program located in the Browse banner.
- While in Browse, to obtain more detailed information about the program displayed, press the INFO key.

Caller Announcement Banner

The caller announcement banner is displayed over active video whenever a telephone call is received. The banner is displayed until the call is answered or the caller hangs up. If it is available, the telephone number and name of the caller will be displayed.







Interactive Program Guide (IPG)

The Interactive Progrm Guide (IPG) provides access to current and future program information while you watch TV. It displays a 90-minute block of scheduled programs, and can be used as a starting point for purchasing IPPV programs and settings timers.

How to Display the Guide

- Press the GUIDE key once to display 6 channels at once.
- Press the GUIDE key a second time to display 2 channels while watching TV or press the Guide key a third time(or press EXIT) to return to watching TV programs.
- Press the GO BACK key to return to the menu last viewed.



How to Use the Guide

- Press the \$\display\$ keys to display different channels.
- Press the ◀ ▶ keys to scroll backward and forward by half-hour increments.
- Enter a particular channel number to display that channel at the top of the screen.
- Press the ENTER key to tune to a current program that is highlighted. If you



press the ENTER key on a future program, a detailed program information banner appears (discussed later in this section).

- Press the INFO key to display more detailed information.
- Press the CHANNEL + and keys to page up and down through the Guide.

Guide Screen

The header (top of screen) displays the current Interests menu setting (sports, movies, etc.) on the left side and the time on the right. The line below the header displays the day of the program information being viewed. The rest of the screen displays the channel names and numbers on the left and the program names on the right. The Guide screen displays 6 programs at a time.

How to Display a Future Day and Time on the Guide

You can always scroll ahead with the Guide, but if you want to immediately look at program offerings for another day or a specific time, you can jump ahead without scrolling. To jump to a specific date and time:

- Display the Options menu (press the OPTIONS key on the remote control).
- Select option 2 (Guide & Favorites). The Guide & Favorites menu appears.
- Select option 1 (Set a Future Day & Time for the Guide). A Choose Day menu appears.
- Select which day of the Guide you would like to display. A Choose Time menu will appear.
- Select the time of day for the Guide programming you would like to view.
 Short Cut: Press the FUTURE key after pressing GUIDE. You can go directly to the Choose Day menu.

Press the GUIDE key. The Guide will return to displaying the current day and time. If you press the GO BACK key, you will return to the previous screen or the program you were watching.

How to View the Guide by Interests

You can also focus the Guide display to a list of your favorite channels or to special programming interests (such as sports or movies). To select an interest:

- Press the INTERESTS key. The Interests menu will appear.
- Highlight one of the listed choices and press the ENTER key.



- The Guide will appear and display only programs that pertain to the interest (such as sports) that you have selected. For example, if you have selected a list of favorite channels (Favorites A, B, C or D), the Guide will display only the list of favorite channels you have selected. (Refer to the section entitled "Setting Favorite Channels" to select the channels you want to include in your Favorites list.)
- Future interest programming by day and time can be viewed by pressing the FUTURE key on the remote while in GUIDE.

Detailed Program Information

Press the INFO key to display a program information banner that has a detailed description of the program, ratings, purchasing information, and information icons.

Setting a Timer for a Future Program

Using the Guide, you can set a timer to automatically display a program at a future time and date. If you are viewing a programming list for a future date or time on the Guide, press the ENTER key or the INFO key while a program is highlighted to display the detailed program information banner. This banner includes a Timer button. Select the Timer button by pressing the ENTER key to display a Confirm Timer screen. Confirm the Timer by pressing the ENTER key again. You will return to the Guide and a Timer icon will appear in the lower right corner of the program cell. Press INFO again or press the GO BACK key to turn off the detailed information and return to the Guide. More information on timers is in the section entitled, "Options: Setting Timers."





Interests and Favorites

You have the choice to scan every channel when you "channel surf." But to help you locate channels and shows of specific interest to you, the receiver has an Interests menu that helps you to focus your channel surfing.

- By using the Interests menu, you can quickly locate programs according to a particular theme such as movies, sports, music/radio, news/ educaton or network series.
- You can also surf through four lists of favorite channels (Favorites A, B, C and D) and surf only the channels on these lists.



How to Display and Use the Interests Menu

- Press the INTERESTS key on the remote control. The Interests menu appears.
- To select an interest (for example, All Programs, Favorites A, B, C, D or Network Series, News/Education, Movies, Sports, Pay Per View, or Music/ Radio), highlight one of these options and press the ENTER key. The Guide will appear and display channels or programs that pertain to the interest you selected. Remember that once you have selected one of the options (or interests) from the Interests menu:

A. The information you see in the Guide will be limited to programming that matches the interest you selected. If there is no programming that matches the interest, a message will appear notifying you of this.



- B. You will notice that while you are watching a program or channel, the left side of the header will display the interest you selected. If there is no programming matching the selected interest, a message will appear notifying you of this.
- Press the INTERESTS key again to display the Interests menu and change your selection.
- 1 All Programs. Each time you turn on the receiver, it automatically returns to the All Programs setting. When this option is selected, you will be able to scan for all programs while channel surfing or when you are using the Guide.
- **2 Favorites A, B, C, D.** If you select Favorites A, B, C or D, you will be able to limit your channel surfing and the Guide information listings to channels that are listed in the Favorites A, B, C or D lists. If you have not yet made a list of favorite channels, a message will instruct you to do so.
- **3 Movies.** If you select this interest, you will be able to channel surf exclusively for movies.
- **4 News/Education.** If you select this interest, you will be able to channel surf exclusively for news/education programs.
- **5 Sports.** If you select this interest, you will be able to channel surf exclusively for sports programs.
- **6 Music.** If you select this interest, you will be able to channel surf exclusively for music/radio programs.
- **7 Network Series.** If you select this interest, you will be able to channel surf exclusively for network series programs.
- **8 Pay-Per-View.** If you select this interest, you will be able to channel surf exclusively for Pay-Per-Viw (PPV) programs.



Pay-Per-View Events

Purchasing Instant Pay-Per-View (IPPV) Events

With DSR405 digital satellite receivers, you have opportunities to purchase Pay-Per-View hit movies, concerts, live sporting events, or adult entertainment in SAT mode. You can make a purchase in two ways: (1) telephone ahead to the service provider to purchase a Pay-Per-View (PPV) program, or (2) use the Instant Pay-Per-View (IPPV)



screens to purchase a program through your receiver. This section explains how to purchase IPPV events. The prices shown in these examples are purely for demonstration. Your receiver must be connected to a telephone jack for IPPV to operate.



How to Purchase an IPPV Event

- Tune to a channel that displays IPPV programs.
- Follow the instructions on the Purchase menu.

Free Preview Period. There is a free preview period at the beginning of an IPPV event when you can watch the program without purchasing it. You can purchase a program or cancel your purchase anytime during the free preview period.



Passwords. You may be asked to enter your password before you can view the program. If you forget your password or the system does not accept it, you may have to call your service provider for assistance.

Videotaping Options. You may be unable to videotape some programs, or you may have the option of paying a higher price for the opportunity to tape the program on your VCR.

Purchase Screen

There are a variety of purchase screens, but most of them have the following elements:

The header (top of screen)
will have the screen
name, viewing interest (if
one is selected), channel
name, channel number, an
envelope (if you have an
unread message), and the
time.



- If the program is within the free preview period, video will appear in the middle of the screen.
- The screen will display the program name, the start and end times, icons, ratings, and the price of the program.
- There will be a purchase button, instructions to press the ENTER key, or

instructions to call the program provider.

- Follow any additional instructions. For example, you may need to enter a
 password, or you may be unable to purchase a program for another reason.
- A confirmation screen will appear so that you can verify your purchase. You
 may be asked to enter a password and press the ENTER key.

How to Cancel a Purchase

You may only cancel a purchased program (that has been confirmed) during the free preview period.

- Press the FUTURE key. A cancel screen will appear. Press the ENTER key to cancel the purchase.
- You may also cancel a program by changing the channel during the free preview period.

Purchase the Next Program

You will be unable to purchase a program if you miss a significant portion of it, but you may be able to purchase the next program. After you purchase the next program, a countdown timer displays how much time remains before the program begins.

Purchase a Future Program

You can pre-purchase a program that starts hours or days ahead by using timers as explained in the section entitled "Options: Setting Timers".

Changes in Purchase Options

If a program provider changes the purchase options after you have pre-purchased a program using a timer, and if the change affects your purchase, your purchase will be canceled, and you must buy the program again.

How to Purchase a Program While Viewing an IPPV Program

To purchase an IPPV program while you are viewing another IPPV program:

- Press the GUIDE key to display GUIDE screen.
- Select the program you wish to purchase. If the selected show is currently on, the channel will switch to the selected program.
- Press the ENTER key, and a miniature Confirm Purchase screen will appear.
 Press the ENTER key to confirm your purchase.



How to Display Your Purchase History

The List Purchases option allows you to review a list of previously purchased IPPV programs

.

- Display the Options menu (press the OPTIONS key on the remote control).
- Purchases). The Purchases menu will display a list of purchases. If it displays more than two programs, press the \$\infty\$ keys to scroll through them. Press the GO BACK key to exit this menu.

Purchase List

This list shows the date, time, cost, and name of each purchased program. The most recent purchase is at the top of the list. If you wish to display previous purchases, press the \Leftrightarrow keys to scroll through the list. A telephone icon indicates that the purchase was reported to the service provider.

Account Status

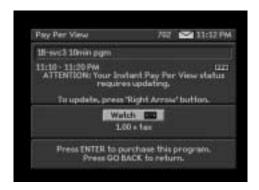
If you are qualified to make IPPV purchases, the Account Status option will display the word "Active". If the word "Inactive" appears, you cannot purchase IPPV programs. You will need to call your service provider to discuss your account if it is Inactive.

Credit Message

Below the Account Status is a message that explains your credit status.

Low Credit Message

This screen will be displayed on PPV channels only if the receiver has become low on IPPV credit or the receiver has failed its last telephone reportback attempt. Press the button on the remote

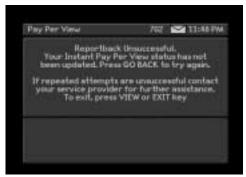


to attempt an immediate reportback. Please make certain the telephone line is connected to the receiver and the line is not currently in use. If an immediate reportback is not desired, press Enter to buy the show or Go Back, press View or Exit to return to normal viewing.

The following screen will be displayed after the button is pressed from the previous screen. It will indicate the current status of the modem as it attempts to dial out and perform a reportback.



If your receiver fails to reportback, the following screen will appear. To attempt another reportback, press Go Back on the remote. To return to normal viewing press View or Exit.



No Dial Tone Screen

This screen will be displayed only if no dial tone is detected during a consumer initiated reportback attempt. To attempt another reportback, press Go Back on the remote. To return to normal viewing press View or Exit.





Telephone Line Busy

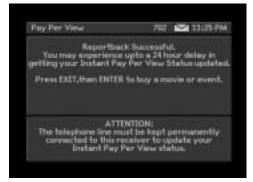
This screen will be displayed only if the telephone line is busy during an attempted reportback. To attempt another reportback, press Go Back on the remote. To return to normal viewing press View or Exit.

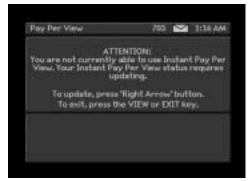
This screen is displayed when a reportback has completed successfully. The receiver will be updated with more credit by the end of the following day.

Unsuccessful Reportback

This screen will be displayed if the receiver has not been able to successfully reportback its IPPV purchases within its predetermined time. Pressing the button on the remote to attempt a current reportback may solve the problem.



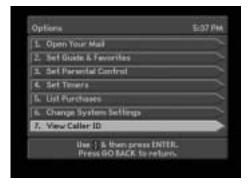




Options

How to Display and Use the Options Menu

The Options menu is your doorway to a series of menu screens that allow you to set up various features for program viewing. There is one procedure for displaying the Options menu if you are using the remote control, and there is another if you are using the keys on the Front Panel of the receiver.



If you are using the remote control, press the OPTIONS key. The Options menu will appear.

If you are using the front panel of the receiver, press the MENU key. When the Menu screen appears, press the \$\infty\$ keys to highlight Options, and then press the ENTER key. The Options menu will appear.

The following list will give you a broad overview of the menu options and the features they control.

- 1. Open Your Mail. This option lets you read personal, programming, or promotional messages. Look for the envelope icon on your viewing screen.
- **2. Set Guide & Favorites.** This option allows you to select a future day and time for viewing IPG listings. It also allows you to create a list of favorite channels that can be used for selective channel surfing and to limit the programs displayed on the IPG to a particular group.



- **3. Set Parental Control (and Passwords).** Parental Control features and passwords allow you to control the programs, channels, and subject matter that can be viewed with your receiver.
- **4. Set Timers.** This option allows you to set a timer to view (or record) a program at a future time and day up to one year in advance.
- **5. List Purchases.** This list shows the date, time, cost, and name of each purchased program.
- **6. Change System Settings.** There are a variety of topics available through this menu option including language, audio, installation and system status settings. The Sleep Timer is also located under this option.
- **7. View Caller ID.** This option allows you to turn the Caller ID feature On and Off, view calls received, and enter names you want displayed.

Opening Your Mail

Your receiver is able to display a variety of messages that are sent to it. Some messages will be displayed on your screen as soon as they arrive, but others are stored in your mailbox for you to retrieve. If a message is waiting in your mailbox, the envelope icon will appear on your screen header while you are watching a program. This feature applies to viewing in SAT mode only.

How to Display the Mailbox Menu

- · Press the OPTIONS key to display the Options Menu.
- Select option 1 (Open Your Mail). The Mailbox menu appears.

Mailbox Menu

The Mailbox menu displays a list of numbered message titles, each with a date. If you wish to read the entire contents of a message, select the message (while the message is highlighted, press the ENTER key), and a message screen will appear within the Mailbox menu.



Mailbox Message Screen

The Message screen contains the complete message. Once you read the message and wish to erase it, press either the ENTER key or the GO BACK key. An Erase Message prompt screen will appear. Some messages will be automatically erased after you read them. Such messages will have the following statement in the instructions at the bottom of the screen: "This message will erase after being read."

Erase or Keep Message Screen

When the Erase Message prompt screen appears within the Mailbox menu, it allows you to select from two options.

- Select Erase Message to erase the message and return to the Message List menu.
- Select Keep Message to save the message and return to the Message List menu.



Setting a Future Day and Time for the Guide

If you want to immediately look at program offerings in the IPG for another day or a specific time:

- Display the Options menu (press the OPTIONS key on the remote control).
- Select option 2 (Guide & Favorites). The Guide & Favorites menu appears.
- Select option 1 (Set a Future Day & Time for the Guide). A choose Day menu appears.
- Select which day of the Guide you would like to display. A Choose Time menu will appear.
- Select the time of day for the Guide programming you would like to view.

Refer to the section entitled "Guide (IPG)" for more information.



Setting Favorite Channels

With this option, you can create a list of favorite channels using the Favorite Channels menu. Once you create this list you will be able to focus your channel surfing and find programs more quickly.

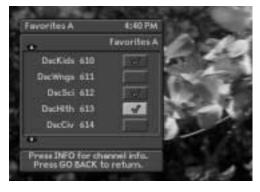
How to Display the Favorite Channels Menu

- Display the Options menu.
- Select Option 2 (Set Guide & Favorites). The Guide and Favorites menu appears.
- Select Option 2 (Set Favorite Channels). The Favorite Channels menu appears.



Favorite Channels Menu

The Favorite Channels menu allows you to assign channels to each of four lists (refer to the section entitled, "Viewing Interests and Favorites"). The Favorite Channels menu displays options to set Favorite Channels A, B, C, or D. Press the keys and press ENTER or use the number keys to select which Favorite Channels list you would like to modify. When



you select one of these options the corresponding Favorites screen will appear, i.e. Favorites A. Each of the Favorites menus displays a list showing the name of the channel and the channel number with corresponding buttons running down the right side of the screen.

To assign a channel to the Favorites A, B, C or D list:

- Press the keys to scroll through the list of channels.
- Press the keys to highlight the box to which you will assign the channel.
- Press the ENTER key. A check mark will appear in the box you select. Press
 the ENTER key again if you wish to remove the check mark.
- Press GO BACK to return to the Favorite Channels menu.
- Repeat this process to create each Favorites list.
- Press EXIT to return to view programming.

Setting Parental Controls & Passwords

The Parental Control menu enables you to set passwords, lock out certain channels, and lock out certain programs based on their rating or specific content. This applies to programs which have a U.S. content rating.

How to Display the Parental Control Menu

- Display the Options menu.
- Select Option 3 (Set Parental Control). If a password has already been programmed, you will be asked to enter your password before you can have access to the Parental Control menu.



Parental Control Menu Options

- **1. Set Password.** The Set Password option allows you to set a parental control password that prevents others from viewing certain channels and programs. It also prevents them from purchasing IPPV programs.
- From the Parental Control menu, select option 1 (Set Password). The New Password screen appears.
- Use the number keys to enter a password of up to 8 numbers. An asterisk (*) will appear each time you add a number. Press the ◀ key to move to the left and change a number. When you are finished, press the ENTER key. The Confirm Password screen appears.



Re-enter your password numbers and press the ENTER key. The Password
Changed screen appears, letting you know that your password is now effective.
 Press the GO BACK key to return to the Parental Control menu.

To Set a New Password. If you wish to change your password in the future, you must first enter your current password to gain access to the Parental Control menu. From the Parental Control menu, select option 1 (Set Password). The New Password screen appears. Key in a new password, and press the ENTER key. When the Confirm Password screen



appears, re-enter the new password. A Password Changed screen will confirm that your password has been changed.

To Clear Your Password. If you wish to clear your password so that no passwords are required to purchase Pay Per View programs or view locked-out channels or programs, you must first enter your current password to gain access to the Parental Control menu. From the Parental Control menu, select option 1 (Set Password). The New Password screen appears. Press the ENTER key without keying in any numbers. When the Confirm Password screen appears, press the ENTER key again without keying in any numbers. A Password Changed screen will confirm that your password has been cleared.

- **2. Set Channel Locks.** The Set Channel Locks option allows you to lock out specific channels from viewing. Once a channel is locked out, you must use the parental control password to view programs on the locked out channel.
- Select option 2 (Set Channel Locks). The Channel Locks menu appears. The Channel Locks menu displays a list of channel names, numbers, and buttons.
 Press the ♠ keys to scroll up and down the list of names.
 Select a highlighted channel (press the ENTER key) to lock it out. A lock



- appears on the button. To remove a lock, select a channel that is already locked (press the ENTER key when it is highlighted).
- Press the GO BACK key to exit this menu. Changes are saved automatically each time you set a lock.
- When you are channel surfing, the receiver will skip locked out channels. If
 you try to directly enter the channel number of the locked-out channel while
 channel surfing, the following message will appear: "This channel has been
 locked".
- **3. Set General Rating Locks.** The Set General Rating Locks option allows you to lock out programs based on their general rating —PG, R, NC-17, X, etc. Once you set a general rating limit, you must use the parental control password to view programs with that rating or a higher rating.
- Select option 3 (Set General Rating Locks). The General Rating Locks menu appears.
- If you highlight one of the rating boxes on the left side of the menu, a
 description of that rating will appear.
- Select a rating to lock out programs matching that rating. All higher ratings
 will also be automatically locked out. A closed lock symbol will appear. If you
 select a locked rating, it will be unlocked.
- You may also select No Locks to permit access.
- **4. Set Content Rating Locks.** The Set Content Rating Locks option allows you to lock out digital programs based on their specific content—violence, sexual material, or offensive language—regardless of their general rating. Once you set a content rating lock, you must use the parental control password to view programs that possess the locked-out content. This applies to programs which have a content rating.
- Select option 4 (Set Content Rating Locks). The Content Rating Locks menu appears.
- Listed under each category (Violence, Sexual Material, or Language) are four boxes. For example, under the Violence category are: No Locks, GV (graphic violence), V (violence), and (MV) mild violence. If you highlight one of the boxes, a full description of the category will appear.
- Select a rating to lock out programs with that rating. All higher ratings will be automatically locked out, and a closed lock icon will appear. If you select a locked rating, it will be unlocked.
- · You may also select No Locks for each category.
- **5. Locks.** The Locks option allows you to turn off all of the channel and program locks so that you can view all of the locked out channels and programs. If you set any new locks after Locks is set to Off, the Locks option automatically re-sets



itself to On. Each time you press the POWER key to turn on the receiver, the Locks Option resets itself to On.

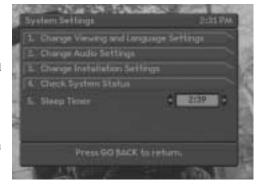
Setting Timers

With timers, you can schedule your viewing up to one year in advance—whether you want to schedule one-time-only events or daily programs. Once you have set the timer, the receiver will automatically tune to the channel when the program begins. You can change, erase, and review the timers whenever you wish. Make sure to set your VCR if you wish to make a tape since the receiver will not automatically program your VCR to tape an event.

Sleep Timer. Sometimes when you are watching a program in SAT mode, you will want to automatically turn off the picture and sound because you plan to fall asleep after a certain amount of time.

To set the sleep timer:

 Display the Options menu (press the OPTIONS key on the remote control).



- Select option 6 (Change System Settings), and the System Settings menu appears.
- Select option 5 (Sleep Timer) to highlight it.
- Press the keys to set the amount of time you wish to watch and hear a
 program until the sleep timer shuts off the picture and sound (shown in hours
 and minutes). The maximum time limit is 3 hours.

NOTE: Any time that a sleep timer is set, the LOCKS option re-sets itself to On. See "Setting Parental Controls & Passwords."

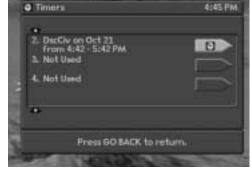
How to Display the Timers Menu

- Display the Options menu.
- Select Option 4 (Set Timers). the Timers menu appears.

How to Use the Timers Menu

The Timers menu has up to 25 timer listings. Each listing that has already been set includes the program name, the day and time it begins, and icons for parental controls and IPPV programs.

- Press the keys to scroll up and down the listings.
- If you select a Not Used listing, a Set Timer menu will appear.



If you select a listing that has already been set, the Change Timer/Erase Timers
prompt screen will appear.

Change Timer/Erase Timer Prompt Screen

The Change Timer/Erase Timer prompt screen has two options:

- If you select the Change Timer option, the Set timer menu will appear so that you can change the timer settings.
- If you select Erase Timer, The Timers menu will reappear, and the listing will be changed to Not Used.



A clock icon appears on the right side of the arrow-shaped box if the timer is set but the program has not yet begun.

Maximum Number of Timers

The maximum number of timers is twenty-five (25). If all of the timers have been used you will have to erase an existing timer before a new timer can be set.



Before a Timer Executes

Two minutes before a timer executes, the Front Panel Timer light will blink, and a countdown screen will appear. You may either: (1) press the GO BACK key to remove the countdown screen, (2) press the ENTER key to return to the Timers menu so that you can erase the timer, or (3) wait until the timer executes.

How to Use the Set Timer Menu

If you selected a Not Used listing in the Timers menu, the Set Timer menu appears. The Set Timer menu allows you to select the frequency for the timer, the date, the beginning and ending times for the program, and the channel.

Press the \P \Rightarrow keys to highlight the various options.

To set each option, press either the \blacktriangleleft keys or the number keys as indicated.

When you are finished setting all of the timer options, select the Confirm Timer arrow to display the Confirm Timer menu.

How to Set Each Timer Option

- If Daily, Weekly or Other is selected, different screens will appear.
- Press the ◀ ▶ keys to display the date.
- Press the number keys to set the time. A timer must

be at least 5 minutes long to activate.

Press the \(\bigcirc \) keys, or the number keys to indicate the channel number.



Setting a Timer for Next Year

If you set the timer for a month and day that have already passed in the current year, the receiver will consider the setting to be for the next year on that date. For example, if it is December and you set a timer for February, your timer will execute in February of the coming new year.

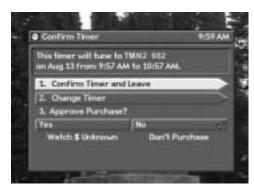
If You Press the GO BACK Key

If you press the Go BACK key from the Set Timer menu, a message screen will appear. It will instruct you to do either one of the following:

- Cancel your changes by pressing the ENTER key.
- Press the GO BACK key again to return to the Set Timer menu.

How to Use the Confirm Timer Menu

The top portion of the Confirm Timer menu displays timer information followed by up to four options (the IPPV option does not appear if the program is not a subscription program). Some programs may be scheduled too far in advance to immediately determine this information.



1. Select option 1 (Confirm Timer and Leave) to complete

your settings from the Set Timer menu and to return to the Timers menu to complete additional settings. Select this option only after you make sure the other options on this screen are correct.

- **2.** Select option 2 (Change Timer) to return to the Set Timer menu and change the Timer option settings.
- **3.** Option 3 (Approve Purchase) allows you to pre-purchase a program before viewing time. This option only appears if your receiver is IPPV enabled. The program's price is not always displayed.
- Select the Yes option to pre-purchase the program.
- If you select the No option, the program will not be pre-purchased. The timer
 will be set for the program, but you will have to purchase the program at
 viewing time.
- If the program cannot be taped, a no tape icon will appear.

If you have purchased a program or have used parental control features to lock out channels, satellites, or program content, a Password screen will appear. You will have to enter your password to finish setting the timer. Refer to the section entitled "Setting Parental Controls and Passwords".



Setting a Timer Using the Guide

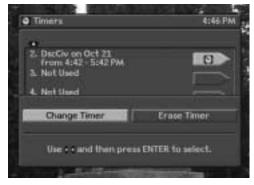
To set a timer while you are using the Guide:

- Highlight a future program.
- Press the INFO key or the ENTER key.
- A Confirm Timer menu will appear (follow the instructions located on the menu).

How to Cancel a Timer

To cancel a timer while it is executing:

Press the POWER key.
 For repeating timers (such as those used for daily or weekly programs), pressing the POWER key only cancels the currently executing event. The timer for the next repeating event (the timer for the next day or week) will be



re-enabled at the start of the next day.

 Erase the timer on the Timers menu. This will cancel single-event and repeating event timers. Refer to the section entitled "Change Timer/Erase Timer Menu".

If New Settings Conflict with Previous Settings

If your new timer settings conflict with a previously set timer (for example, if both are set for the same time), a message screen will appear. It will describe the conflict and ask you to do either one of the following:

- Press ENTER to replace the conflicting (previously set) timer with the new one
- Press GO BACK so that you can retain the previously set timer and change the settings of the current timer so that they no longer are in conflict.

List Purchases

This is a view only screen that allows you to review a list of previously purchased IPPV programs and to verify your account status. Refer to the section entitled "Pay-Per-View Events" for more information regarding this option.

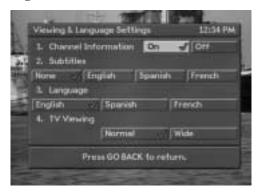
Change System Settings

The System Settings menu provides access to menus that allow you to adjust the operation of your system.



Viewing and Language Settings

The Change Viewing and Language Settings option allows you to turn off the headers and banners, choose the language for subtitles and audio, and choose the size of the viewing area. To use these options, you will be using the onscreen menus. Typically, these settings are selected at the time of initial installation by your installer.



- Press the OPTIONS key on the remote. The Options menu appears.
- Select option 6 (Change System Settings), and the System Settings menu appears.
- Select Option 1 (Change Viewing and Language Settings). the Viewing and Language Settings menu will be displayed.

Channel Information. The Channel Information option allows you to turn the header (top of screen) and banner (bottom of screen) on or off. Select the option of your choice, On or Off. The default setting is On.

Subtitles. The Subtitles option allows you to select the language for subtitles (if available for the particular program) or keep them turned off. Select the option of your choice—None, English, Spanish, or French. The default setting is None.



Language. the Language option allows you to select the language of the audio for your programs. Select the option of your choice—English, Spanish, or French. The default setting is English.

TV Viewing. The TV Viewing option allows you to select the size of the viewing area. Select the Normal option if your TV screen is typical screen with 4:3 ratio of width to height. Select Wide if your TV screen is a wide screen with a 16:9 ratio. The default setting is Normal.

Audio Settings

To adjust the audio settings so that they are correct for the type of equipment connected to your receiver, you will be using the onscreen menus. Typically, these settings are selected at the time of initial installation by your installer.

- Press the OPTIONS key on the remote. The Options menu appears.
- From the Options menu, select option 6 (Change Systems Settings), and the System Settings menu appears.
- From the System Settings menu, select option 2 (Change Audio Settings), and an Audio Settings menu will appear.

Audio Settings Menu for Satellite Broadcasts. On the Audio Settings menu three options appear:

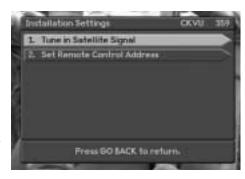
- Select option 1 (Audio Connections), and you will be able to select either TV
 or Hi Fi (the default is TV), Select TV if the receiver's AUDIO OUT port is
 connected to your TV. Select Hi Fi if it is connected to your stereo system.
- Select option 2 and then select Mono, Stereo, Surround or Dolby Digital (the default is Surround). The Dolby Digital selection will disable other audio ports.



Installation Settings

Tune in Satellite Signal. This option allows you to see the strength of the signal your antenna is receiving.

Set VCR Code. Some models will allow you to automatically control your VCR so it will record programs. You will have to enter the code of your VCR in your receiver. You have two ways to do so: you can enter it directly, using your remote



control; or you can enter it by scanning through codes on your receiver and selecting the right code.

Enter VCR Code. This option allows you to record the number code for your VCR in your receiver. Look up the code in Section 3.0 of this manual, enter the numbers via your remote control, and perform a test.

Scan for VCR Code. This option allows you to enter the code by scanning through a list of VCRs and then choosing the one you want.

Set Remote Control Address. This option allows you to control up to four receivers in a centralized area with one or more remote controls. Each receiver requires a separate address. The default address is 000.

On the front panel of your receiver press the Menu button.

- · Choose Options.
- Choose option 6 (Change System Settings).
- Choose option 3 (Installation Settings).
- On the Installation Settings menu, choose option 2 (Set Remote Control Address). Now follow the instructions on the Remote Control Address screen.
- If you have four receivers, you will have to change the addresses on three of them: they will have address of 000, 001, 002, and 003.

To program your remote control for each receiver, hold down the SAT key on the remote control until the light flashes. Once the light begins to flash enter the desired address (000, 001, 002, or 003).

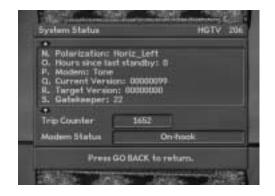


System Status

This is a view-only screen that displays information about the status of the receiver.

Trip Counter. Trip Counter displays the number of message updates from your service provider.

Modem Status. Displays a number of messages that describe the current modem status.



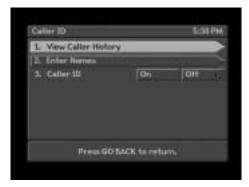
Authorization Screens

Sometimes when you tune to a program, an Authorization screen will appear. It will fade to black after a short time, it will reappear when:

- The channel or program is locked out.
- · The receiver is not authorized.
- A subscription is required.
- There is a program blackout.
- · You need to insert a TvPass card.

Caller ID

This receiver provides Caller ID so you can see who is calling. When your telephone rings, the caller's identification is displayed on your television and stored into the memory of the DSR405. This feature is only available if the Caller ID feature is enabled by the telephone company. The receiver provides identification of the first caller only, and cannot identify a second



calling party while the phone is in use.

- **1. View Caller History.** This option displays a list of up to 20 of the last telephone calls that you have received.
- **2. Enter Names.** Selection of this option allows you to enter the name you wish displayed when called from a specified telephone number.
- 3. Caller ID. This option allows you to turn the Caller ID feature On or Off.

Call History

The Call History screen displays up to the last 20 telephone calls you have received, whether they were answered or not. The time, date, number, and name if available, will be displayed for the last 20 telephone calls you have received. The latest call is displayed at the top of the screen. Press the

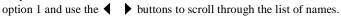
► **Lesson Security** ► **Le**



Enter Names

This screen allows you to enter a name which you would like to be displayed for a particular calling telephone number. The name you enter will override the name, if any, that has been provided by the telephone company.

1. Select Caller. You can enter up to 20 names to be associated with 20 different calling telephone numbers. Choose



2. Name. This option is used for entering the name that is to be displayed when being called from the specified telephone number. Choose option 2, use the channel up/down buttons to scroll through the available characters, both upper





case and lower case letters are available as well as numbers, spaces and various other characters.

3. Number. This option allows you to enter the number you want to associate with the name you entered in option 2 (Name). Ten digits are required. They are entered using the number keys on your remote control.

Caller Announcement Banner

The caller announcement banner is displayed over active video whenever a telephone call is received. The banner is displayed until the call is answered or the caller hangs up. If it is available, the telephone number and name of the caller will be displayed.





Specifications

Input

L-Band Input

Input frequency 950 to 1550 MHz or

950 to 2150 MHz

Input impedance 75 ohm

Input level -65 dBm to -25 dBm
Return loss 8 dB minimum
Demodulator QPSK demodulator

Antenna Input

Connector "F" type, receptacle

Input Impedance 75 ohm

Video

Composite Video

Output level 1.0 Vp-p \pm 10% into 75 ohm Connector Yellow phono, marked Video out De-emphasis 525 line CCIR Rec. 405-1

DigiCipher II (Digital) System

Frequency response ±1.0 dB, 1kHz to 4.2 MHz
Differential gain 5.0% p-p maximum
Differential phase 5.0 deg. p-p maximum
S/N 57 dB minimum

(unified weighting $100\,\mathrm{kHz}$ HPF, $5\mathrm{MHz}$ LPF)



Component Video (DigiCipher II System Only)

"S-Video Out" Output Level

Frequency Response C + 1.25 to -4.25 dB

(relative to 0 dB at 3.58 MHz)

S/N (Y) 57 dB minimum(unififed weighting 100 kHz HPF, MHz LPF)

Remodulator Output

Connector "F" type receptacle, "Out to TV" NTSC & IEC

Impedance 75 ohm

Channel Ch. 3 or 4 (NTSC, North America)

Audio Mono

Audio

Digital stereo Fixed volume output, volume control is from TV only

Optical audio

Optical power output 0.032mw max

Wave length 660nm typ +/- 30mm

Cable length 3 meter max (not provided)

DigiCipher II (Digital) System

Frequency response ± 1.0 dB, maximum

20 Hz to 20 kHz

Remote Control

Transmitter Infrared (IR), UHF optional

Batteries 2 x AA type

Range IR: 35 ft. max.; UHF: 200ft. max.

Angle ± 22 deg. (IR)

Physical/Environmental

Temperature 0 deg. to 40 deg. C ambient

Humidity 95% relative

Dimensions 17" W x 4" H x 13 1/2" D

Weight 5.85 lbs

Power input 115V ±10% AC; 60 Hz nominal; 50W maximum

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