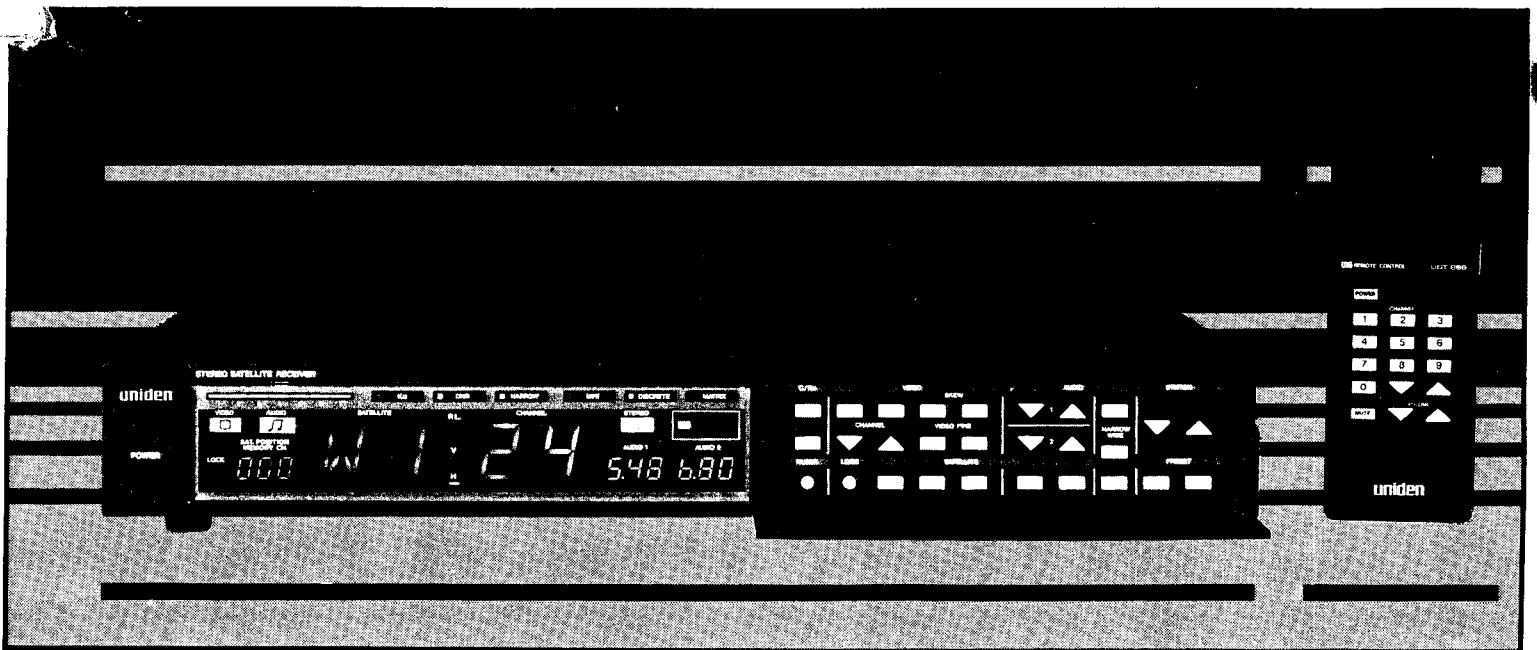


# -uniden®



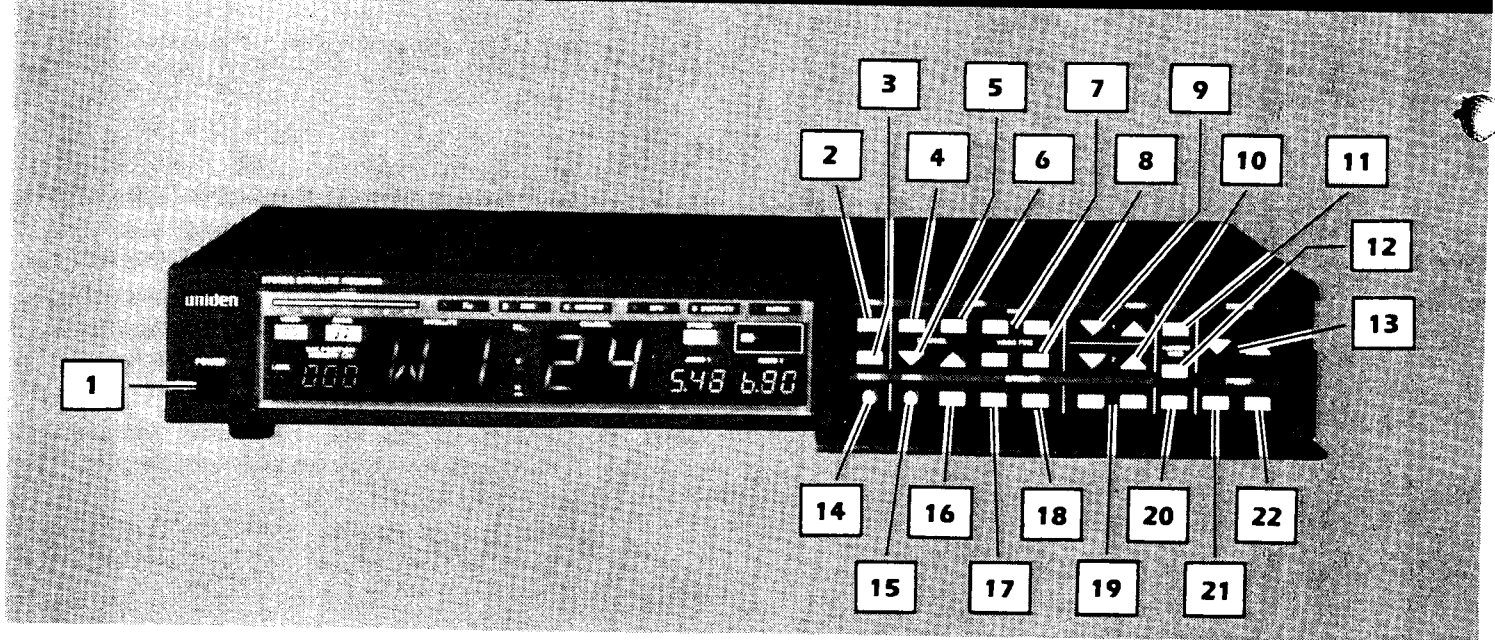
## Satellite Television System

A complete guide to the installation and operation of the UST-9000 satellite receiver system.



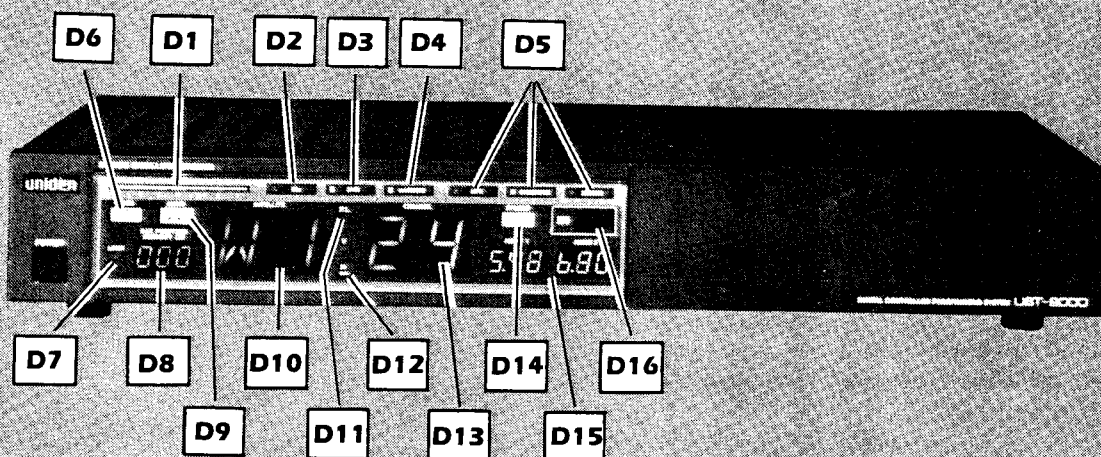
# UST-9000

## Installation and operation



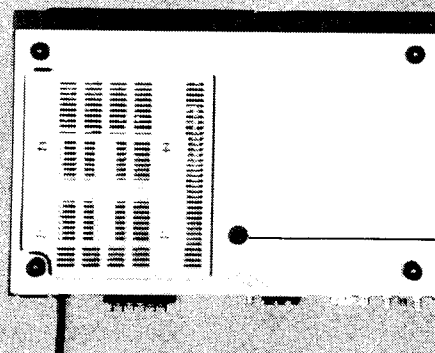
## Front Panel Controls

- 1. Power On/Off** - Turn the receiver on or off from this key or the same key on the remote control.
- 2. C/Ku Band** - Press to select either C band or Ku band satellite signals depending on the LNB installed in your system.
- 3. Memo Key** - Press to enter satellite, channel, audio or other information into memory.
- 4. Scan Key** - Activates channel scan. Press once to scan 2 channels per second. Press for more than 1/2 second to scan 12 channels per second. Press the Scan key again or any other key to stop.
- 5. Channel Up/Down Keys** - Press once to change a channel. Press more than 1/2 second to change 8 channels per second. Release key to stop.
- 6. V/H Polarity Key** - Press to change from horizontal to vertical or vertical to horizontal polarity.
- 7. Skew +/-** - Adjust the skew pulse to fine-tune the television picture. Press + or - until you get the best possible picture.
- 8. Video Fine +/-** - Primarily for Ku band reception. Press and hold the + or - key until a Ku band channel is visible. Press momentarily to fine-tune the picture. Some C band channels may also need to be fine-tuned by pressing the + or - key momentarily.
- 9. Audio 1 Keys** - Adjust the frequency of the first audio channel from 5 - 8.5 MHz. Press once to step 10 KHZ, press more than 1/2 second to change 80 KHZ per second. Initial setting is 6.8 MHz for all channels.
- 10. Audio 2 Keys** - Adjust the frequency of the second audio channel. Operation is the same as audio 1. Initial setting is 6.8 MHz for all channels.
- 11. Mode Key** - Press to change the audio mode from mono to discrete, matrix, multiplex and back to mono.
- 12. N/W Key** - Press to change the audio band from wide to narrow or narrow to wide. Initial setting is wide.
- 13. Station Keys** - Allows easy selection of your favorite preprogrammed satellite video channels or satellite radio channels. After selecting the station number, simply press the call key to automatically tune to the preprogrammed satellite and channel.
- 14. P. Lock** - The parental lock allows you to block reception of a specific channel. Select the satellite and channel for which you wish to block reception. Press the P. Lock key. Whenever that satellite and channel are called the video will be blank and the P.L. LED will light. To release the parental lock call the satellite and channel, then press the P. Lock key for more than 4 seconds.
- 15. Lock Key** - Press to lock the memory. In the lock mode the east and west keys will move the antenna +/- 10 counts for fine-tuning only. Press the Lock key for more than 4 seconds to unlock the memory.
- 16. Type Key** - Select the type of satellite. Operation is the same as No. key.
- 17. No. Key** - Select satellite number. Press once to select next number. Press for more than 1/2 second to change 4 numbers per second. Release to stop.
- 18. Call Key** - Press to move antenna to satellite and channel shown in display or to tune in a preprogrammed station number.
- 19. East and West Keys** - Press once to change antenna position by one number on the display. Press and hold to move antenna until key is released.
- 20. DNR Key** - Press to turn Dynamic Noise Reduction on or off.
- 21. Preset Video Key** - Press to activate the video station mode for easy access to your favorite channels.
- 22. Preset Audio Key** - Press to activate the audio station function for easy access to your favorite satellite radio programs.



## Display

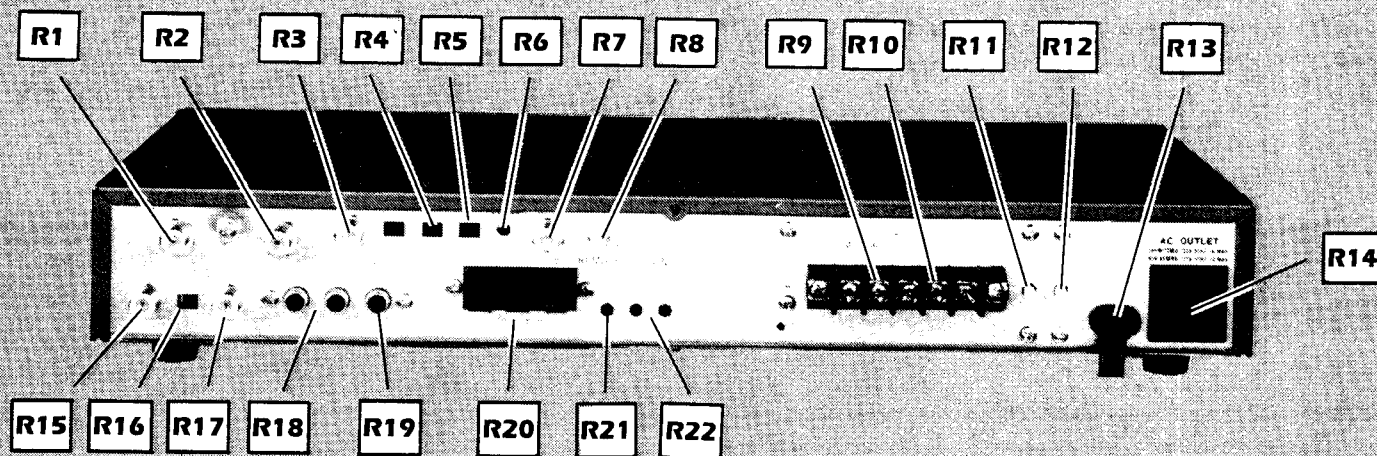
- D1. LED Level Meter** - Indicates the relative strength of the satellite signal.
- D2. Ku LED** - Lights when Ku band is selected. C band has no indicator.
- D3. DNR LED** - Lights when DNR function is selected.
- D4. Narrow LED** - Lights when narrow audio band is selected. Wide band has no indicator.
- D5. MPX, DISC, MTRX LEDs** - Lights when these audio modes are selected.
- D6. Video Indicator** - Lights when the video station mode is selected.
- D7. Lock LED** - Lights when the memory lock is on.
- D8. Sat. Position/Memory Ch** - Displays the antenna position or preset station channel selected.
- D9. Audio Indicator** - Lights when the satellite audio mode is selected.
- D10. Satellite** - Displays the satellite letter and number selected.
- D11. P.L. (Parental Lock) LED** - Lights when a channel has been selected that is locked.
- D12. V and H LEDs** - Lights to indicate vertical or horizontal polarity.
- D13. Channel** - Displays the selected channel number.
- D14. Stereo Indicator** - Lights to show that the selected audio is in stereo.
- D15. Audio 1 and Audio 2** - Displays the selected audio frequencies.
- D16. Remote Window** - Receives the infrared signal from the handheld remote control.



**Signal Meter Adjustment**

## Bottom Panel

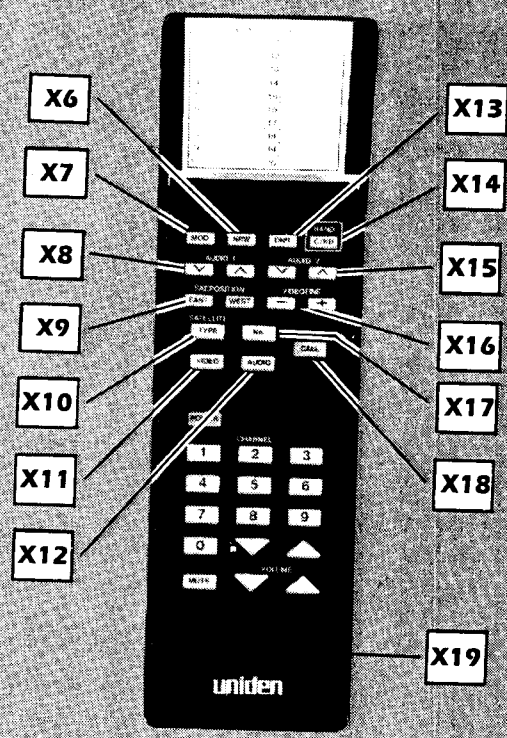
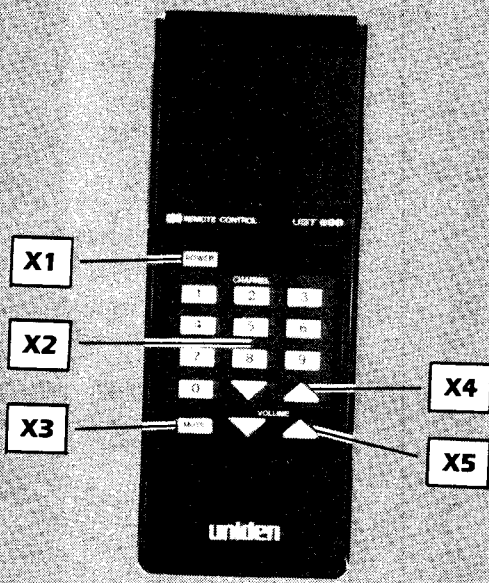
**Signal Meter Adjustment** - If signal level on meter is consistently too high, adjust level by turning control with a screwdriver.



## Rear Panel

- R1. C Input** - F type connector for the 1 GHz IF cable from the LNB or the UST-524 multiple receiver unit.
- R2. Ku Input** - Connect the 1 GHz IF cable from the Ku LNB for Ku band reception.
- R3. Descram Out** - F type connector for composite video output used with a descrambling device.
- R4. TI On/Off Switch** - Select On to help eliminate microwave (terrestrial) interference, or OFF for normal use.
- R5. 18V and V/H Switch** - Select the +18V position for single receiver installations. Select the V/H position when using the UST-524 for multiple receiver installations.
- R6. CPU Reset** - Press this switch to clear the central processing unit. **WARNING: WHEN THIS BUTTON IS PRESSED ALL MEMORY WILL BE ERASED.**
- R7. +18V** - F type connector for +18VDC power to the UST-524 for multiple receivers installation. When the UST-524 is used the 18V - V/H switch must be in the V/H position.
- R8. Remote Station** - F type connector for hook up of the UST-88 remote control system which allows operation of this receiver from a remote location.
- R9. Motor + and - Terminals** - 36 VDC 1.5 amp max output for actuator motor. Circuit breaker R11 controls this circuit.
- R10. +B, SEN, and GND Terminals** - Connect to actuator sensor.
- R11. Actuator Circuit Breaker** - Push to reset. If breaker trips, check the antenna and actuator to make sure they are operating properly.
- R12. Main Circuit Breaker** - Push to reset.
- R13. AC Power Cord** - Connect to any 110 - 120V household AC outlet. Do not connect to an outlet controlled by a wall switch.
- R14. AC Outlet.** - Unswitched power for other equipment such as a monitor or VCR. When the power to the UST-9000 is turned off this outlet remains on.
- R15. RF Out** - F type connector to wire satellite receiver to the VHF antenna terminal of television.
- R16. CH 3/4 Switch** - Select either channel 3 or 4 depending upon your television set.
- R17. Ant. In** - F type connector for external VHF TV antenna. When the power is off signal is connected to RF out (R15).
- R18. Audio 1 and 2 Output** - RCA type connectors for external audio equipment, VCR or monitor.
- R19. Video Output** - RCA type connector for an external monitor, VCR or descrambling device.
- R20. +6V, Pulse, and GND Terminals** - Connectors for a servo motor type polarization device. Voltage automatically turns off 4 seconds after polarization changes.
- R21. Counter Clear** - Press to erase the limits for antenna travel and to reset the counter to 000.
- R22. Up and Down Limit** - Set the east and west limit of travel for the antenna.





## Remote Control (UST-699)

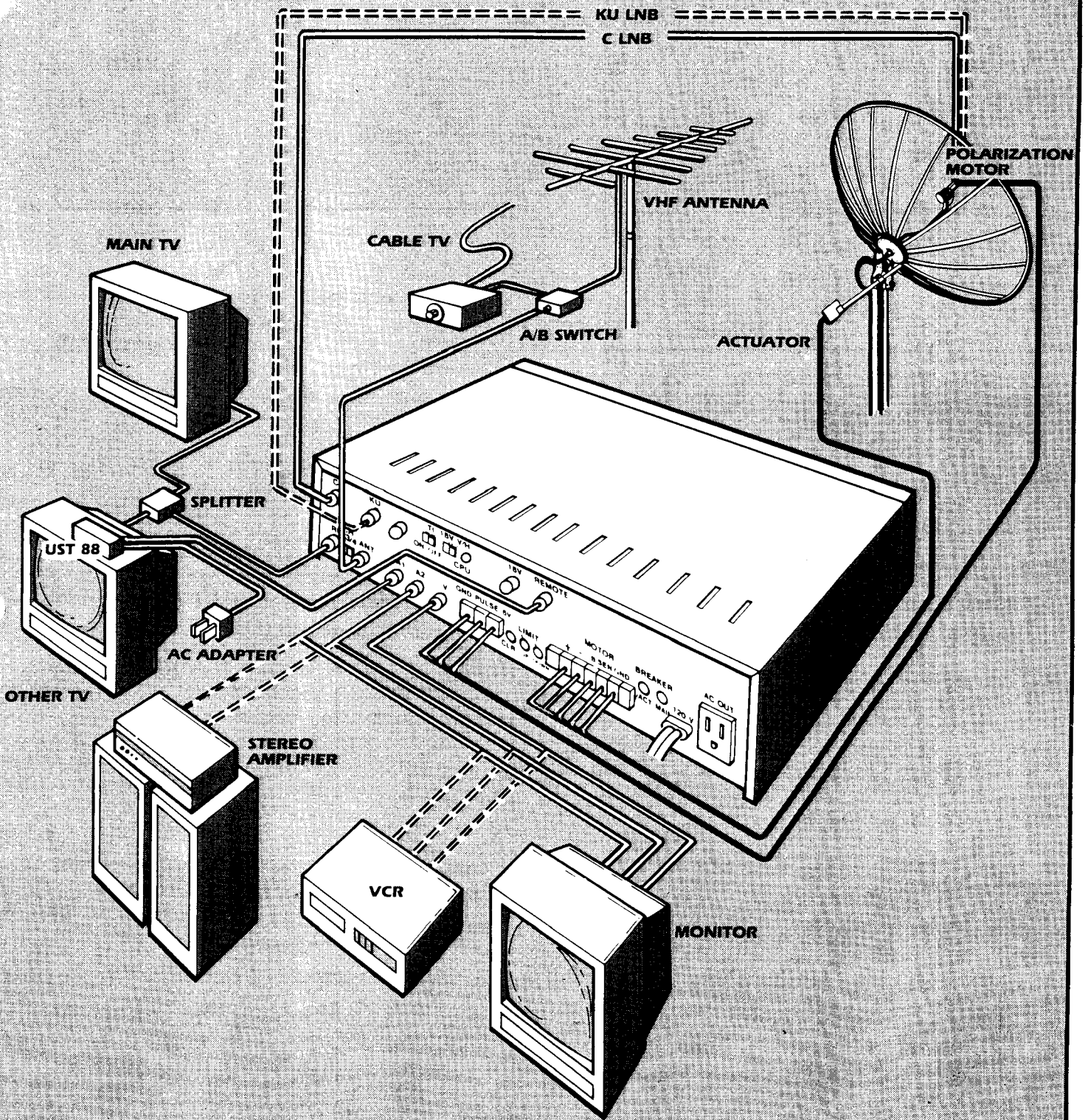
### Proposed Keys

- X1. Power On/Off** - Turn the receiver on or off with this key.
- X2. 0 - 9 Keys** - Press to select channel or station number.
- X3. Mute Key** - Press to mute volume. Press again to restore volume.
- X4. Channel Up/Down Keys** - Press once to change channel. Press more than 1/2 second to change 8 channels per second. Release key to stop.
- X5. Volume Up/Down Keys** - Select the volume by pressing or holding, up/down keys.

### Hidden Keys - lift cover to access keys

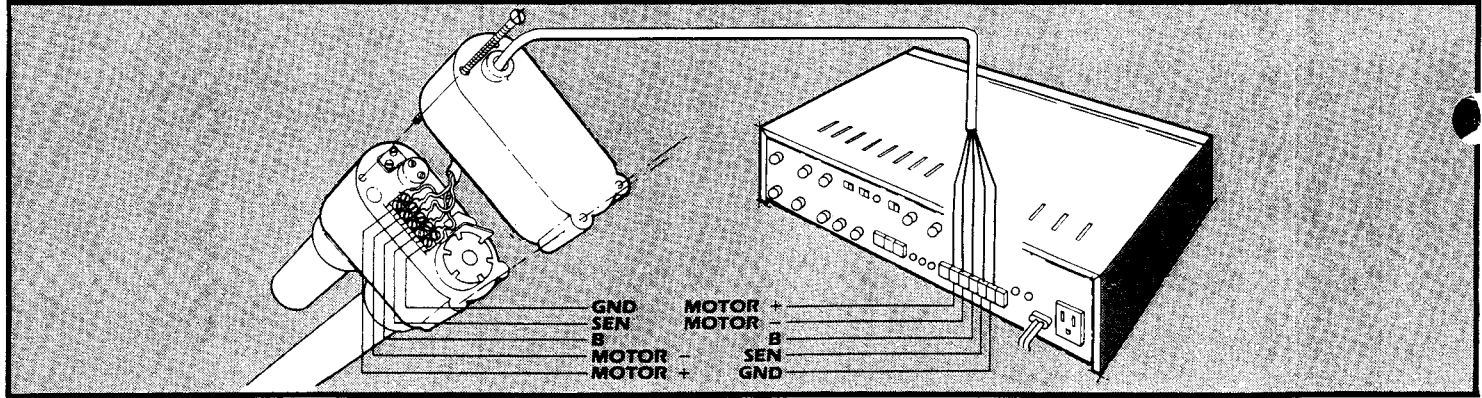
- X6. N/W Key** - Press to change the audio band from wide to narrow or narrow to wide.
- X7. Mode Key** - Press to change the audio mode from mono to discrete, matrix, and back to mono.
- X8. Audio 1 Keys** - Adjust the frequency of the first audio channel from 5 - 8.5 MHz. Press once to step 10 KHz, press more than 1/2 second to change 80 KHz per second. Initial setting is 6.8 MHz for all channels.
- X9. East and West Keys** - Press once to change antenna position by one number. Press and hold to move antenna until key is released.
- X10. Type Key** - Select the type of satellite. Operation is the same as No. key.
- X11. Preset Video Key** - Press to activate the video station mode for easy access to your favorite channels.

- X12. Preset Audio Key** - Press to activate the audio station function for easy access to your favorite satellite radio programs.
- X13. DNR Key** - Press to turn Dynamic Noise Reduction on or off.
- X14. C/Ku Band** - Press to select either C band or Ku band satellite signals. For Ku band reception a Ku band LNB is required.
- X15. Audio 2 Keys** - Adjust the frequency of the second audio channel. Operation is the same as audio 1. Initial setting is 6.8 MHz for all channels.
- X16. Video Fine +/-** - Primarily for Ku band reception. Adjust the first local frequency to fine-tune the video. Press once to change 156.25 KHz, press and hold to rapidly change by 800 KHz/second. Release to stop. Some C band channels may also need to be fine-tuned by pressing the + or - key momentarily.
- X17. No. Key** - Select satellite number. Press once to select next number. Press for more than 1/2 second to change 4 numbers per second.
- X18. Call Key** - Press to move antenna to satellite and channel shown in display.
- X19. Battery Compartment** - Remove cover to replace 2 AA size batteries.



The above diagram shows a typical layout for the UST-9000 satellite receiver system with all its options. Your system may not be exactly the same as this diagram shows.

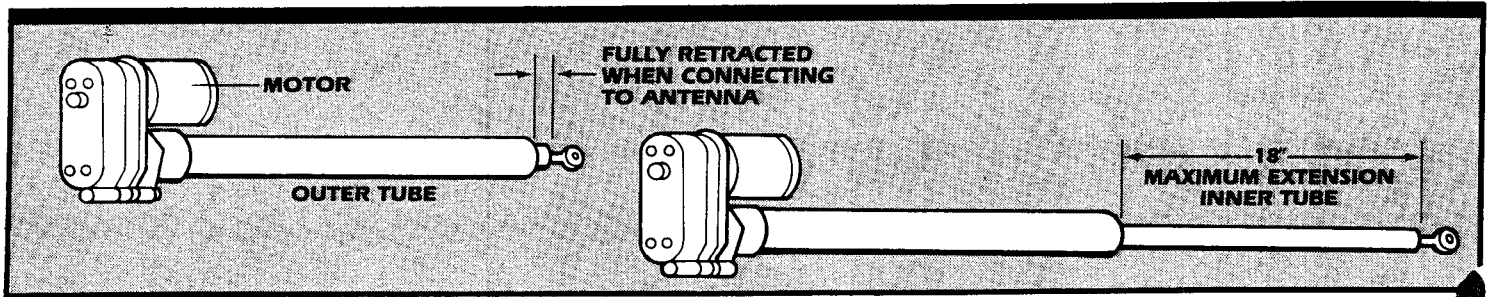
**NOTE:** Please refer to the cable chart on the preceding page when selecting cable for your system. If you have cable runs longer than those indicated in the chart you should consult your dealer for proper cable type.



## Actuator Connection

Remove the rear cover of the actuator motor. Inside the casing is a terminal strip. Connect the appropriate wires to the connections on the strip. Be sure to use the cables recommended in the preceding chart. Route the wire through the rubber seal and put the case back on the motor. Be sure that

the gasket is properly seated for a weather-tight seal. The actuator should then be connected to the 5 screw terminals on the rear of the UST-9000. Make sure that the proper connections are made. Any improper connection can cause permanent damage to your system.



## Actuator Set-Up

The actuator inner tube should be retracted as far as possible, leaving only the pivot socket exposed. The satellite position display on the UST-9000 should read 000. If the display is not at 0, press the Clear Counter button on the back of the receiver. Once the counter is at 0, press the East key until the counter displays 010. Press the Lower Limit button on the back of the receiver. Move the antenna all the way to the east. Press the West key to reverse it about 10 counts. Press the Upper Limit button on the back of the unit.

**NOTE:** The Up and Down Limit buttons on the back of the UST-9000 are used to stop the travel of the antenna in both the east and west directions. If there is some kind of physical

obstruction or other reason that the antenna should not travel the full distance of its arc, the Up or Down limit should be set to stop the travel. To set the limit, advance the antenna to the farthest position it should travel. Press the Down button (for a western position) or the Up button (for an eastern position).

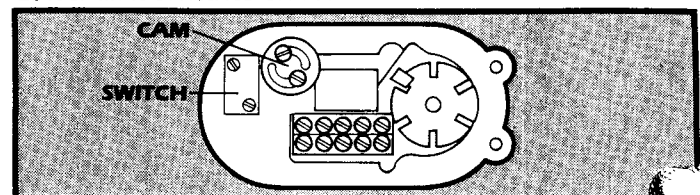
**IMPORTANT: BE SURE TO SET BOTH THE UPPER AND LOWER LIMITS AS DESCRIBED ABOVE. IF THE LIMITS ARE NOT SET THE ACTUATOR WILL NOT WORK PROPERLY.**

## Additional Limit Settings

The normal limit of travel for the actuator arm is about 18 inches. If the most easterly satellite cannot be reached by the antenna when the actuator arm is fully extended, an internal limit switch should be adjusted.

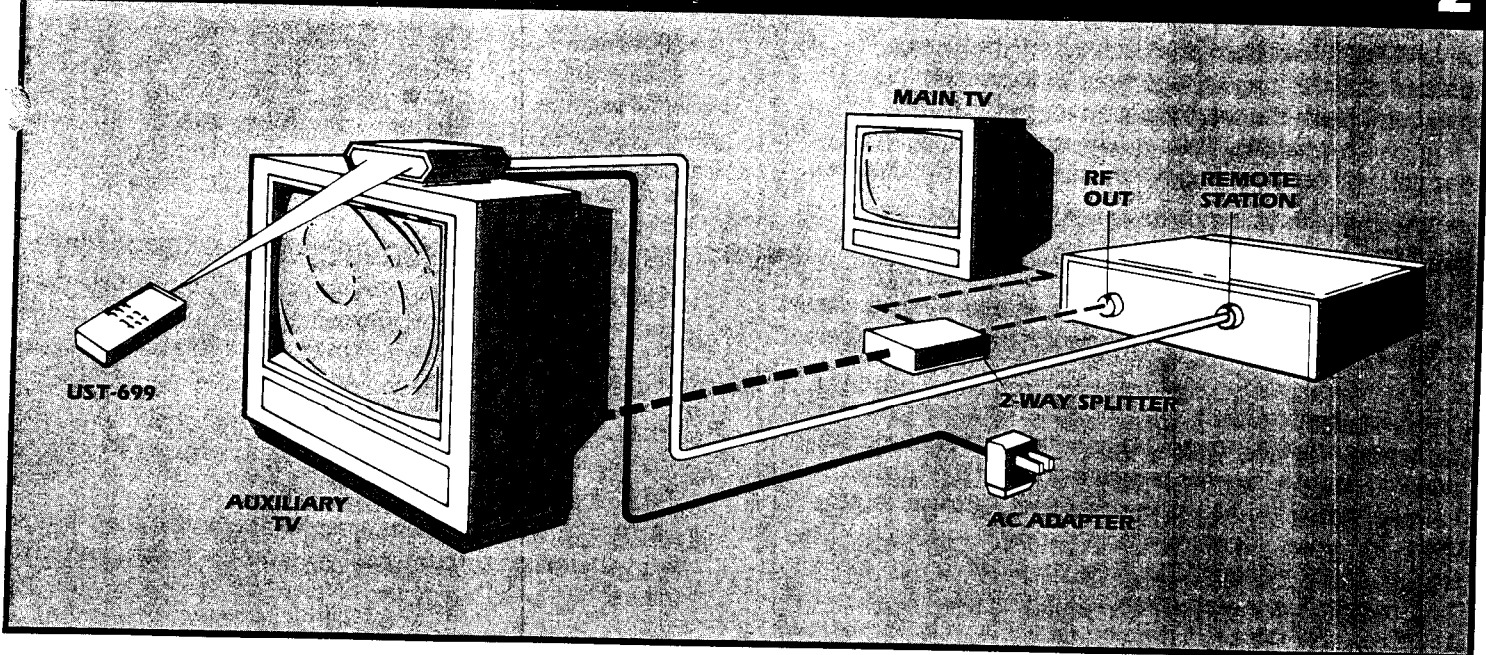
Remove the back case of the actuator motor housing and locate the red limit switch and cam. Loosen the two screws holding cam. Turn the cam clockwise, until the screw head is located in the center of the slot. Tighten screws and replace actuator case. Press the Counter Clear switch on back of the unit. Press the East key to move the antenna to an eastern satellite. Move the antenna about 10 counts beyond the satellite and press the Upper Limit switch.

If the eastern satellite is still out of range repeat the preceding steps and rotate cam further. Be sure to reset Upper and Lower limit switches on rear of unit.



**IMPORTANT: Make sure cam screws are tight before replacing actuator case. If actuator limit cam is not secure it will cause permanent damage to your unit.**





## UST-88 Connection

The optional UST-88 allows you to control your UST-9000 from another TV away from the receiver. Connect the 2-way video splitter (included) to the RF output cable on the receiver. Connect your main TV to one output on the splitter and connect your second TV (where the UST-88 will be used) to the other output. Run a cable (RG-59) from the Remote Station connector on the rear of the UST-9000 to the input on the rear of the UST-88. Place the UST-88 on top of your second TV and plug the AC adaptor into the rear of the unit

and any 110 - 120V AC outlet. Use the remote control from the receiver, pointed at the front of the UST-88 to control all of the functions of your satellite system. The superimposed graphics feature will allow you to see the satellites and channels you select on your second TV screen. You can also purchase a second remote control (UST - 699) to use with the UST-88. If you do not have a UST-88 be sure to ask your Uniden dealer for full details.

# Programming

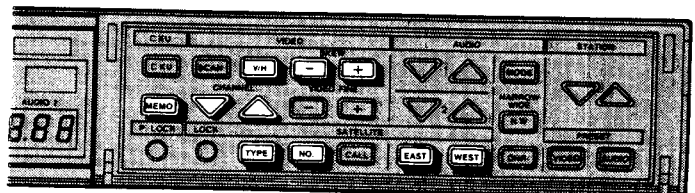
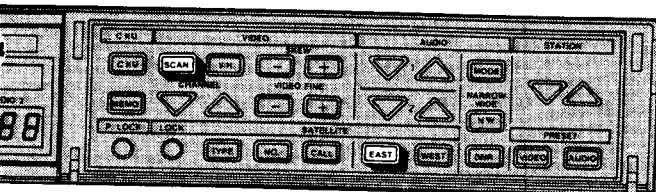
Now your UST-9000 system is properly installed and is ready or programming. Carefully follow each step to become familiar with the programming procedures. The UST-9000 has been designed with the user in mind, therefore once the unit is programmed the operation is simple.

## Programming Satellites and Channels

All programming should be done with the keys behind the door on the front panel of the UST-9000. Turn on the power. Be sure that Lock LED is off. Press the Scan key for more than 1/2 second to rapidly scan the channels. Press and hold the Fast key. The Antenna will begin moving to the east. When the first satellite is received the TV screen will flicker from the video signal. Release the East key and press the Scan key to stop the channel scan.

Press the channel Up or Down key to locate an active channel. If the picture appears distorted or scrambled press the polarity key to change polarity. If this improves the picture, continue. If the picture remains distorted, select a new channel and try the polarity setting again.

Press the East or West key momentarily to fine-tune the antenna to that satellite. Press the Skew +/- keys for additional fine-tuning. When the best picture is achieved compare the active channels and the polarity setting on that satellite with your local program guide to identify the satellite to which you are tuned. Press the Type key until the correct letter appears in the display for that satellite. Press the No. key until the correct number appears in the display. Press the Memo key to enter the position for that satellite. The satellite number will flash twice to confirm entry. The satellite and its position are now stored in memory.

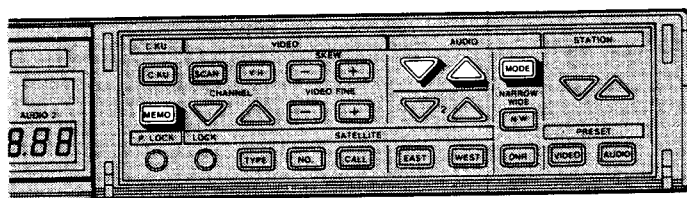




The UST-9000 has been programmed at the factory for all standard audio settings. Check your local program guide for audio settings on the satellite which are not 6.8 MHz, Mono. If any of the channels have audio settings other than 6.8 MHz you will need to program the audio for those channels.

Find the channels in the guide which have special audio settings. Tune the receiver to the first channel. Press the Audio 1 keys to step up or down to the correct frequency. If the audio portion of the channel is broadcast in multiplex stereo press the Mode key until the MPX LED lights. The Stereo indicator will also light.

If the audio portion of the channel is broadcast on two audio frequencies press the Audio 2 keys to select the second audio frequency as listed in your program guide. If the broadcast is in stereo, press the Mode key to select Discrete or Matrix stereo. The stereo indicator will light as well as the DSC (Discrete) or MTRX (Matrix) LED. Press the DNR key to activate the Dynamic Noise Reduction feature. The DNR LED will light. Press the N/W key if the program guide calls for narrow band audio.

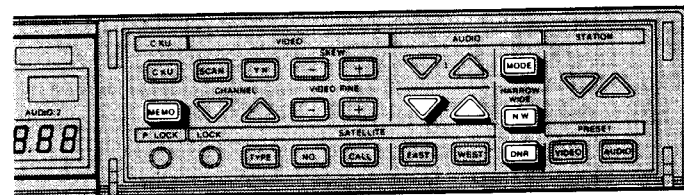


Double check the audio information displayed with your program guide to be sure all information is correct. Press the Memo key to enter the audio information into memory. Whenever this satellite and channel are selected, the audio portion will automatically be tuned as programmed. Continue programming each channel that requires a special audio setting.

**NOTE:** Most satellite audio programming will be broadcast on 6.8 MHz, which has already been preprogrammed into your receiver. Your local program guide will keep you updated on which satellites and channels currently broadcast stereo audio and what the correct frequencies are for tuning.

Continue to the next satellite following the same procedure until all satellite positions and all special audio settings are stored in memory.

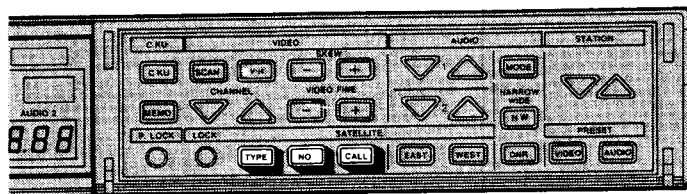
**NOTE:** The UST-9000 has a memory back-up circuit that will keep the memory for about 1 year in the event of a power failure.



## Selecting a Satellite and Channel

To select a preprogrammed satellite simply press the Type key until the desired satellite letter is displayed. Next press the No. key until the satellite's number is displayed. Check your local program guide to be sure that the correct satellite is displayed. Press the Call key. The antenna will automatically move to the position for that satellite.

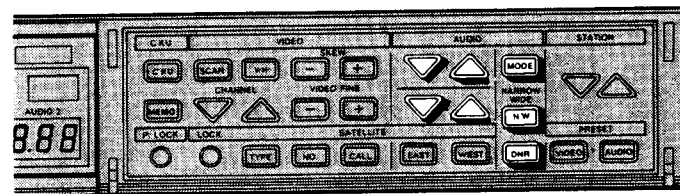
Once the desired satellite has been located press the channel keys to select a channel. The audio portion of that channel will automatically tune to 6.8 MHz, Mono and Wide band modes unless special audio frequencies have been programmed.



**NOTE:** If you call a satellite that has not been programmed the No. display will flash and then return to the previous satellite.

## Selecting Audio

If you wish to change the preprogrammed audio setting, the UST-9000 makes it easy. Follow the instructions in the Programming Special Audio section of this guide. If you do not wish to permanently change the audio setting, do not press the Memo key after tuning the special audio. The next time the satellite and channel are called the audio will return to the preprogrammed setting. If you decide to make a permanent change, press the Memo key after selecting the special audio.



The sophisticated UST-9000 takes all the effort out of satellite TV viewing. With the push of a few keys you can select as many of your favorite channels as you wish (up to 99), automatically. The UST-9000 does all the work. It will move the antenna to the satellite and tune in the channel, audio, and

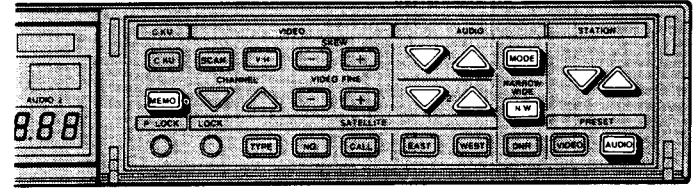
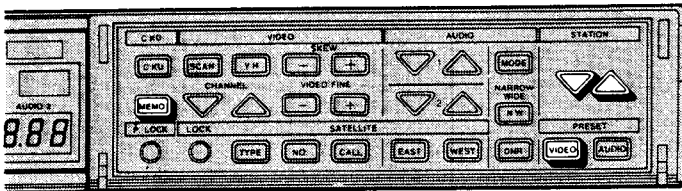
any other special settings. If you would like to listen to a variety of radio broadcasts, simply select the audio mode and with a simple 3-button command you can select your favorite satellite radio programs (up to 99). Its that simple!

## Programming Video Station Channels

Call your favorite satellite, channel and audio as previously described. Check the display to be sure all selections are correct including band, mode and frequencies. Press the Video preset key. Select the station number you want to assign to that channel (1 - 99). Write that number down along with the program information. Press the **Memo key**. Whenever you call that station number the UST-9000 will automatically tune in the preprogrammed channel you want to watch.

## Programming Audio Station Channels

Call the satellite and channel of your favorite satellite radio program. Select the frequency as listed in your local program guide. All satellite radio broadcasts are on the narrow band. Press the N/W key and check to make sure the Narrow LED is on. When you are sure your selection is correct press the Audio preset key. Select the station number you wish to assign (1 - 99). Write down that information, then press the Memo key. Whenever you call that audio station number the UST-9000 will automatically tune to the preprogrammed radio broadcast you selected.



## Superimposed Graphics

Whenever any key on the remote control is pressed the current station number, satellite and channel information is displayed on the lower portion of the TV screen. This feature allows you to check all programming details to be sure the correct channel or radio station has been selected. It is also helpful when using the UST-88 Remote Station. The information will be displayed as station number (if any): P - 00, satel-

lite type and number: F - 1, and the channel number: 00 CH. If Ku band is used the screen will display only -KU-. After 4 seconds the display will disappear. To recall the display, press the Call button.

**NOTE:** The superimposed graphics will not appear on channels that are not actively broadcasting.

## Memory Lock

When all the satellite, channel and audio information has been programmed, the memory function can be locked to avoid accidental erasure or misprogramming. When the memory lock is activated, the UST-9000 will not accept any additional programming command except to turn the Parental Lock feature on or off. The East and West key will move the antenna only 10 counts for fine tuning. To lock the memory press the Lock key on the front panel. The Lock LED will light to confirm that the memory is locked. To unlock the memory, press the Lock key for more than 4 seconds. The Lock LED will turn off.

## Parental Lock

The UST-9000 has a special feature which will allow any number of channels on any satellite to be locked out or blocked from viewing. If you feel that a certain program is not suitable for viewing you can lock out that channel so that it cannot be seen. To activate the Parental Lock, call the satellite

and channel that you wish to lock. Press the P.Lock key on the front panel of the receiver. The P.L. LED will light to confirm that that channel is locked. Whenever that channel is called it will appear blank on the TV screen and the P.L. LED will light. You can activate the Parental Lock for a total of 10 channels. To turn the Parental Lock off, call the satellite and channel, then press the P.LOCK key for more than 4 seconds. The P.L. LED will go out.

## Programming Future Satellites

The UST-9000 is designed to identify all the satellites that are currently in orbit. In the future there may be new satellites put into orbit. The UST-9000 has one letter key: + and 9 number keys that can be assigned to new satellites. You simply program the satellite position and assign an identification and number with the + or -. Follow the same programming procedure as you did with the existing satellites.

Now that the antenna is set up and properly operating and the UST-9000 is programmed with satellite positions and special channels you are ready to pioneer the new frontiers of satellite television. With the UST-699 infrared remote in hand

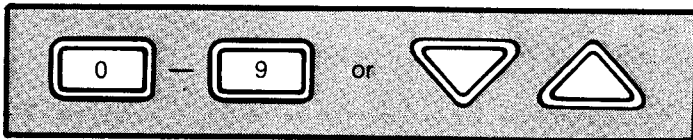
and a copy of your favorite satellite program guide, try each of the functions listed below. All operations described below are accessed by the remote control used with the UST-9000 or the UST-88 Remote Station.

## Press the Power Key on the Remote

The UST-9000 will turn on and all the displays will light. The last satellite and channel previously watched will come on. You can adjust the volume by pressing the Volume up and down keys or mute the volume by pressing the Mute key.

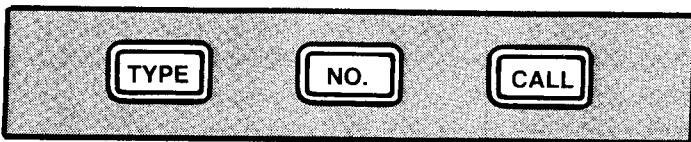
## Select a Channel

Press 0 - 9 keys to select any of 24 channels on the current satellite. The selected channel will appear in the channel display and that channel will come on. Press key 1 and in 2 seconds channel 1 will appear. Press keys 2 - 2 and channel 22 will appear. Press the channel up or down keys to rapidly step through each channel.



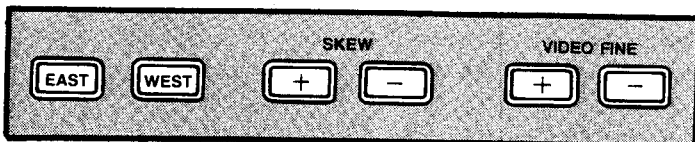
## Select a Satellite

Open the lid at the top of the remote. Press the Type key until the letter of the satellite you wish to view appears. Press the No. key until the satellite number appears. Press the Call key. The antenna will move to the preprogrammed position for that satellite. Select the desired channel on that satellite. If the satellite you selected is not programmed in memory, the satellite display will revert to the last satellite.



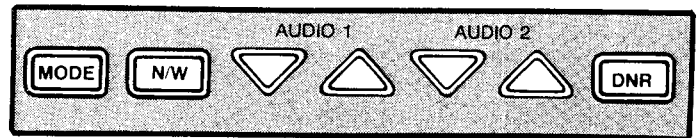
## Fine-Tuning the Video

When satellite positions were programmed, the best possible picture was tuned. There may be times when the signal strays or natural forces cause the alignment of the antenna to change. If a certain satellite is consistently bad you may want to reprogram its setting. If the signal is temporarily off, you can fine-tune the picture by momentarily pressing the East or West key. If the picture is still not satisfactory try pressing the Skew +/- keys on the front panel. The Video Fine key is primarily used for Ku band reception but may help with some C band satellites. There may be other factors that affect the picture quality. See the Helpful Hints section of this guide.



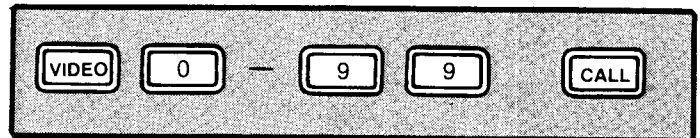
## Select the Audio

When a satellite and channel have been called the audio will come on as Audio 1, 6.8 MHz, Mono. This setting is common for most programming. If your local satellite program guide indicates a different setting, press the Mode key for Discrete or Matrix stereo. Press the Narrow key if the guide calls for narrow band audio. Tune the Audio 1 frequency to the prescribed setting. Tune the Audio 2 frequency to its setting. Select DNR for clearer audio. Whenever a channel or satellite is changed, the audio will revert to Audio 1, 6.8 MHz, Mono.



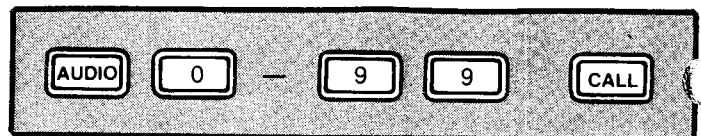
## Select a Video Station

The UST-9000 has a 99 station memory for video programs. You can store your favorite channels and access them by calling the station number for that channel. The receiver will automatically tune to the satellite, channel and audio - ready to watch. Press the Video key under the lid. Press the channel keys for the number of the station you wish to call. Press the call key. The TV screen will display the station number, satellite type and number, and the channel.



## Select an Audio Station

The UST-9000 also has a 99 station memory for satellite radio programs. You can store your favorite radio channels and access them by calling the station number for that channel. The receiver will automatically tune to the satellite, channel and audio - ready to enjoy. Press the Audio key under the lid. Press the channel keys for the number of the station you wish to call. Press the Call key. The TV screen will display the radio station number, satellite type and number, and the channel.



**NOTE:** If you call a satellite that has not been programmed the No. display will flash and then return to the previous satellite.



To make sure you get the most out of satellite television viewing we offer the following information. The sophisticated engineering required to tune in satellite signals from about 22,000 miles away can be as mysterious as space itself. We hope that this information will take some of the mystery out of this technology, making it even more enjoyable for you.

## External Interference

The most common cause of interference for a satellite television system is terrestrial interference. It is caused by local telephone or data microwave links. If your antenna is located close to, or in the path of a microwave tower you may experience snowy video, sparkles or a distorted picture. This kind of interference is usually not constant and may appear to increase and decrease at different times of the day. Since telephone traffic is busiest during the daytime you may notice the most interference during daytime viewing. You may also notice that this interference occurs only on vertical or horizontal channels. On the back of the UST-9000 is a switch labeled TI ON/OFF. If you experience terrestrial interference turn the TI filter on. If the problem still exists you may need to relocate your antenna or use more sophisticated filters. Contact your Uniden dealer for more information.

## Solar Outage

Another cause of interference is the bi-annual solar outage. Due to the seasonal changes of the earth's axis the satellite belt moves between the earth and the sun. When the satellite belt moves directly between the sun and your antenna, the satellite transmissions will be overpowered by the natural radio transmissions of the sun. This kind of satellite eclipse occurs twice a year around the spring and fall equinox. As the satellite eclipse approaches you may notice a gradual, daily increase in interference. It will peak for about 10 - 30 minutes

with a completely distorted picture. As the eclipse decreases so will the amount of interference until the picture is back to clear, normal operation. The degree of interference and the timing of this phenomenon varies with the satellite, your geographical location and the size of your antenna. Unfortunately the only solution is to tune to a satellite that is east of the sun's position until it has passed the satellite you were watching.

## Other Sources of Interference

All electrical equipment is susceptible to interference from other electrical devices. The UST-9000 is an extremely sensitive unit and may pick up interference from any household appliance. If you experience temporary audio or video interference you should check other equipment in your house. Appliances such as refrigerators, washers/dryers, microwave ovens, pumps, power tools, hair dryers, etc. may cause a variety of annoying interference. Also, radio transmitters such as CBs or shortwave radios may be a source of interference. Try plugging the UST-9000 into another outlet, or isolated circuit. Check with your Uniden dealer for other ways to control this type of interference.

Aircraft passing over or near to your antenna may cause some temporary interference as it blocks or reflects the satellite signal. This type of interference is momentary and cannot be filtered.

## Western USA Installation

If your UST-9000 is installed west of the Rocky Mountains you will need to reverse the installation of the actuator. Install the actuator arm on the left side of the antenna and reverse the + and - connections on the back of the UST-9000 so that the East and West keys operate properly.

# Troubleshooting

If your UST-9000 is not performing up to your expectations, please try the simple steps listed below. If you cannot get satisfactory results after following these steps, contact your local Uniden dealer or call the Uniden Customer Service Center at 1-317-842-2483, 9am - 5pm EST.

**NOTE:** Over 80% of the problems occurring with satellite TV systems are related to cable trouble. If you are experiencing any problem with your system, first check all cables and connections carefully. If the problem still exists try the following steps.

## A. Problem

The indicator lights on the receiver are not working. No video or audio.

### Solution:

1. Check the Power switch to make sure it is on.
2. Check the AC power cord to make sure it is plugged into an outlet that is not controlled by a wall switch.

3. Check the main circuit breaker on the back of the unit.

## B. Problem

The indicator lights are on but no TV picture or audio.

### Solution:

1. Check the power switch on the TV or monitor. Check the cable between the RF Out connector on the back of the unit and the VHF In on the TV set. Make sure both connections are secured.
2. Check the channel selector on the TV to be sure it is set to 3 or 4 and that the 3/4 switch on the back of the unit is set to the same number.
3. Check to see if the P.L. LED is on. Parental Lock may be engaged.
4. Check another channel on the satellite. The current one may not have any programming.

5. Check the cable between the 1 GHz In on the back of the unit and the 1 GHz Out on the Low Noise Block Converter. Make sure the cable is not broken and the connections are secure.
6. Check the alignment of the antenna. Press the Scan key and look for flashes of color on the screen. When video is evident press the Scan key again to stop on that channel. Press the East and West key momentarily to align the antenna for the best picture.
7. If you still do not have a picture press the Scan key and the East or West to move the antenna to another satellite. When video flashes on the screen stop the east or west movement and the channel scan. Tune in the satellite as described above.

## C. Problem

There are ghost images or wavy lines on the TV screen.

### Solution:

1. Check video polarization by pressing the V/H key. Adjust the Skew control by pressing the + or - key.
2. Check the channel fine-tune adjustment on the TV and the channel selector to make sure it is on 3 or 4. See problem B2.
3. Fine-tune antenna by pressing East or West key momentarily so that satellite position counter changes up to +/- 10 counts.
4. Check the alignment of the antenna by following the steps listed in B6 and B7.
5. External interference. See Helpful Hints section about interference.

## D. Problem

Picture is full of snow or sparkles. Weak picture.

### Solution:

1. Follow steps C1 - C5.
2. Check all cables for proper connection.
3. Make sure that the Feedhorn is properly positioned. Check the Feedhorn instructions.
4. 1 GHz cable is too long or improper cable used for length required. Check cable chart. Check with your Uniden dealer about a line amplifier.

## E. Problem

Distorted audio or no audio.

### Solution:

1. Check volume of receiver and TV. Check Mute control.
2. Check program guide to make sure the correct audio frequency is tuned. Press the Audio 1 keys to tune a different frequency.
3. Check audio mode and band. Try a different band setting by pressing the N/W key.

4. If you are using the Audio Out jacks, check to make sure cables are properly connected.

## F. Problem

The channel number displayed does not correspond to your program guide. The video is weak or has superimposed images. The polarity indicated in the program guide does not correspond to the setting on the receiver.

### Solution:

1. Change the polarity by pressing the V/H key.

## G. Problem

Antenna will not move. Antenna movement is erratic.

### Solution:

1. Check actuator breaker on back of receiver.
2. Actuator improperly installed or binding. Check actuator installation and antenna mount to make sure nothing is obstructing movement.
3. Check actuator cable for proper connections at both the motor and back of receiver.
4. Antenna is too heavy for actuator. Check with your Uniden dealer about a heavy duty antenna kit.

## H. Problem

Remote control will not work; works erratically.

### Solution:

1. Weak batteries. Replace with 2 AA size batteries.
2. Remote is not pointed directly at remote window on receiver.
3. Remote window on receiver blocked. Check and clear any obstructions.
4. Out of range. Remote will work within 20 feet of receiver as long as there is nothing between it and the receiver. The remote will not work through walls, furniture or people.

## I. Problem

Memory programming will not work.

### Solution:

1. Memory lock is on, Lock LED is on. Press the Lock key for more than 4 seconds

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