1. Power On/Off Switch - This switch turns the unit on and off.

2. LED Power Indicator - This red indicator appears when power is applied to the unit, and turns off when power is off.

3. (A) Vertical Polarity Indicator - This green indicator appears when the receiver is receiving a vertically polarized (V) channel.

4. (H) Horizontal Polarity Indicator - This red indicator appears when the receiver is receiving a horizontally polarized (H) channel.

5. Left/Right Channel Indicator - This two digit gray channel indicators the channel UP.

6. LED Signal Level - This seven bar indicator shows the relative amount of signal being received.

7. Channel Down Control - When pressed, this control will change the channel that the receiver is receiving. This number will change when the Channel UP Switch is pressed. 

8. Fast Scan Control - This control is used when moving the antenna from one satellite to another. The satellite seeking is aerry fast version of the channel seeking that are on the front panel of the unit (see diagram A).

9. Channel Up Control - When pressed, this control will change the channel that the receiver is receiving. This number will change when the Channel UP Switch is pressed. 

10. Mono Audio Control - This audio control allows the receiver to process only mono audio. When the button is pressed, the green mono indicator will light to indicate mono audio mode.

11. Stereo Control - This audio control allows the receiver to process only stereo audio. When the button is pressed, the yellow stereo indicator will light to indicate stereo audio mode.

12. Polarity Control - This control is used to adjust the polarity of the signal when receiving satellite television. This control is used when the receiver is first turned on, and also to adjust the polarity when the receiver is moved to a different location.

13. Mono Audio Control - This audio control allows the receiver to process only mono audio. When the button is pressed, the green mono indicator will light to indicate mono audio mode.

14. Direct Control Audio Control - The audio control allows the receiver to process only direct audio. When the button is pressed, the amber direct audio indicator will light to indicate direct audio mode.

15. Signal Output - This output is used to connect the receiver to a satellite television set or other audio equipment.

16. Power Supply - This power supply is used to provide power to the receiver.

Diagram A: The various features that are on the front panel of the unit. (See diagram A.) To properly operate the UST 6000 Satellite Receiver, it is necessary to understand the various features that are on the front panel of the unit. (See diagram A.)
Infrared Handheld Remote Information

1. Power On - Same as (12) on front panel.
2. Polarity Control - Same as (12) on front panel.
3. Channel Down Control - Same as (9) on front panel.
4. Channel Up Control - Same as (10) on front panel.

Standard television is wobbled. If on Satellite television may be divided.

18. POWER - This switch controls power to the UST 6000 if the unit is off.

Diagram B

From satellite to satellite.

The LED (1) is the LED of the remote information (10) may be necessary if you change
the LED location (9). Some S.E.W. displays indicate (3). If necessary, and changes
are made, the LED display indicator (3) is protected in a position to accommodate changes in position.
An attached display is now in the position to accommodate changes in position.

The remote display is wobbled. If on Remote television may be divided.

These channel select controls perform the same function as the channel select
and are located in the remote display.

15. Matrix Audio Control - This audio control allows the receiver to process
matrix stereo audio frequencies. When in the matrix mode the green matrix
indicator will appear.

16. Audio 1 Adjustment - This control controls the audio frequency being received.

17. Audio 2 Adjustment - This control controls the audio frequency being received.

18. Audio 3 Adjustment - This control controls the audio frequency being received.

19. Channel Select - This channel select is wobbled. If on Satellite television may be divided.

20. Channel Down Control - Same as (9) on front panel.

21. Polarity Control - Same as (12) on front panel.

22. LNB - The receiver controls the audio frequency being received.

23. +18V - This connection supplies the power to the UST 6000.

24. COMB OUT: This connection is to be used in conjunction with an external
with 18V of power through a RG59/U cable.

25. SPLIT - V/H Switch - This switch should be moved to one of the two
positions, depending on the type of installation utilized.

26. SPLIT - V/H Switch - This switch should be moved to one of the two
positions, depending on the type of installation utilized.

Diagram C

Rear Panel Information

Note:

Channels (16,17) can be adjusted to tune the matrix audio channel.

Channel will appear. If the UST 6000 is in matrix audio format only.

If two channels are found and one is not correctly lower "loudness" and sounds
27. 70 MHz IN — This connection receives the signal from the External Filter Output.

Special Note: If no filter is used, a jumper cable from 70 MHz Out to 70 MHz IN must be connected.

28. +18V — This terminal supplies 18V DC current for auxiliary equipment.

Motor-Type Polarization Device
Control Terminal

29. GND — Provides the grounding connection for the Motor-Type Polarization Device.

30. +5.7V — Provides constant voltage to the Motor-Type Polarization Device.

31. Pulse (Control Voltage) — Provides Pulse Control Voltage to the Motor-Type Polarization Device.

Pin Diode-Type Polarization Device
Control Terminals

32. VERT — Provides the vertical connection for the Pin Diode-Type Polarization Device.

33. HOR — Provides the horizontal connection for the Pin Diode-Type Polarization Device.

34. GND — Provides the ground connection for the Pin Diode-Type Polarization Device.

NOTE: All three terminals for either the Motor or the Pin Diode-type Polarization Devices must be properly connected to the Polarization Device. Consult the unit’s separate instructions for color-coding designations.

35. V/H — Same as 1 GHz IN Terminal.

36. Video — RCA fitting delivers direct unmodulated video for inputs to auxiliary equipment such as a VCR, television tuner, or monitor.

37. Meter — This output allows for an External Signal Strength Meter or similar equipment to be connected.

38. Audio 2 — Provides Audio right channel to Audio equipment etc.

39. Audio 1 — Provides Audio left channel to Audio equipment etc.

40. Channels 3, 4 — Provides ability to switch modulated output to either channel 3 or 4 for reception by your television set.

41. RF OUT — Provides Modulated Output Signal to Channel 3 or 4 (40) of the television set.

42. ANT. IN — Provides reception Input Connection for standard VHF (outdoor) TV antenna.

43. AC Outlet — This AC Outlet supplies power to Audio equipment, etc.

44. Fuse 1A — This is a 1 ampere fuse. An extra one is packed with each UST 6000. If the fuses continue to blow (burn out), do not replace the 1 ampere fuse with a larger one. Instead, contact the Uniden Service Center nearest you.

45. 120V AC 60 Hz — This cord plugs into a standard wall socket to provide current for receiver functions.

BOTTOM PANEL INFORMATION

DIAGRAM D
These are the only adjustments on the bottom panel of the UST 6000.

46. **Vertical Polarity Adjustment Pot** — Allows for adjustment of the vertical polarization of your system's polarization equipment.

47. **Horizontal Polarity Adjustment Pot** — Allows for adjustment of the horizontal polarization of your system's polarization equipment.

**SYSTEM LAYOUT**

There are a variety of ways to receive TV pictures with the Uniden Block Down Conversion satellite equipment. System hookup varies depending on the number of receivers that are in the home.

If more than one receiver is used in the home, the system will utilize extra equipment to make it possible to view all channels available with each receiver. If one receiver is to be hooked up, the system layout is much more basic.

**LAYOUT A—SINGLE RECEIVER INSTALLATION**

**NOTE:** In this example, the Polarization Device would be cabled directly from the device to the rear of the UST 6000.

RG-59/U cables can be used for connections of 120 feet or less.

RG-216/U cables are recommended for longer connections because of their higher quality.

**LAYOUT B—MULTI-RECEIVER INSTALLATION**

In any multi-receiver installation, 2 LNA's and Block Down Converters or 2 LNB's are necessary for full satellite viewing by each receiver.

A. As you can see, there are two Low Noise Amplifiers. One amplifies only horizontal channels, and the other amplifies all vertical channels.

B. From there, cables take both Vertical and Horizontal Signals to separate 4-way splitters. In this example, up to 4 receivers can be used in one home.

C. The Four-Way Splitter splits the Horizontal or Vertical Signal into four separate Horizontal or Vertical Signals. From there, both signals go to a Vertical/Horizontal Switch. One switch is needed per multi-hookup receiver. The V/H Switch takes in both polarities (horizontal & vertical) and gives the receiver the ability to switch from one channel (polarization) to another.

D. The dotted line indicates an RG-59/U cable, which runs from the +18 Volt Terminal (23) to the power connection on the UST 502 horizontal/vertical switch.

E. An RG-59/U Cable is used to connect the output of the V/H Switch to the 1GHz in on the rear panel of the receiver.

F. No polarization device is necessary, since the system is constantly receiving both polarities via the two LNA's.
BLOCK DOWN CONVERTOR

There are basically two ways to install a single receiver UST 6000 system.

In example A, both an LNA and Block Down Convertor are used to convert the signal to the 950–1450 MHz range. In example B, this frequency conversion takes place in one stage — the LNB.

If your UST 6000 satellite system utilizes installation A, your system will include the UST 550 Block Down Convertor (BDC). The convertor should be mounted directly to the LNA. The unit is completely weather-sealed, so that moisture will not penetrate it.

BLOCK DOWN CONVERTOR CONNECTIONS

(picture of Block Down Convertor)

48. N. Fitting Input — This connection receives the signal from the LNA.

49. F. Fitting Output — This connection sends the signal from the Block Down Convertor to either a splitter (for multi-receiver reception), or directly to your UST 6000 (for single receiver reception)

INSTALLATION INFORMATION

Consult materials accompanying your antenna and polarization device for instructions concerning installation of the antenna and polarization device.

1. CONNECTION OF THE BLOCK DOWN CONVERTOR TO THE LNA

The following steps should be taken for installation of the Block Down Convertor, again, installations may vary.

A. Connect the Block Down Convertor (BDC) directly to the rear of the LNA. Remember to attach the BDC with the Input side up and the Output side facing the ground.

B. Connect the Output Connector of the BDC by RG-59/U cable to the 1 GHz IN connector (22) on the rear of the UST 6000. The cable should use an F fitting on both ends.
2. CONNECTION OF THE LNB TO THE UST 6000

If the LNB (Low Noise Block Convertor) is used in the installation, run a RG-59/U cable from the Output connection on the LNB to the 1 GHz IN connection on the rear panel of the UST 6000 for single receiver hook-up.

3. CONNECTION OF THE UST 6000 TO A TELEVISION SET

A. For Cable ready TV sets, run the RG-59/U cable from the RF output (41) directly to the VHF input on the rear of the TV set. If the cable ready set has separate audio and video inputs, run the RG-59/U cable from the Video and Audio connections (36, 39) to the audio and video input connection on the television.

B. For non-cable ready sets, an Impedance Matcher (adaptor) is necessary. The two wires coming from the adaptor connect to the VHF Input on the rear of the television. The RG-59/U cable should run from the RF Output (41) to the Input of the Impedance Matcher.

4. CONNECTION OF A ROOFTOP LOCAL ANTENNA TO A TELEVISION SET

After connecting the UST 6000 to the television, simply run the incoming cable from the outdoor local TV antenna to the Antenna IN (42) connection. When the UST 6000 is in the power "on" position, satellite TV will be received. When the UST 6000 is off (and the television is on), normal television viewing may be obtained.

5. CONNECTION OF THE UST 6000 TO A MONITOR OR VCR

If a CCR or video monitor is to be used, connect the direct Video Output (36) on the rear panel of the receiver unit to the Video Input Connection on the VCR or video monitor. Then connect the Audio Connection (39) on the rear panel of the receiver unit to the Audio Input Connection on the VCR or video monitor.

NOTE: At this point it is important to make sure that the TV set is on channel 3 or 4. The TV Channel Selector Knob, or channel readout, should correspond to the switch position (3 CH or 4CH) on the rear of the UST 6000.

TROUBLE SHOOTING

PROBLEM: After carefully following the Installation Instructions, you still do not have a television picture.

ACTION: Check the alignment of your satellite TV antenna system (reflector). To do so, put the receiver unit in the scan mode by depressing the Fast Scan Control (8) on the front panel of the receiver, and scan the channels until you see flashes of colors on the television screen. Immediately take the receiver out of the search mode by touching the button again, and fine tune the alignment of the antenna.

PROBLEM: There is no picture on your television set, and the indicator lights are not working on the receiver unit.

ACTION: 1. Check the AC Power Cord (45) to make sure the receiver is plugged in.

2. Check the Power On/Off Switch (1) to make sure the button is depressed and the receiver unit is on.

3. Check to make sure the In-Line Power Fuse (Fuse 10A) has not blown. If so, replace the fuse with the second fuse supplied with your UST 6000 receiver unit.

(Do not use a fuse which is larger than one amp. If the second fuse blows, refer to the nearest Uniden Service Center for assistance.)

PROBLEM: There is no picture on your television set, but the indicator lights on receiver are operating.

ACTION: 1. Make certain that the Channel Selector on your television set is on channel 3 or 4, and that Channel 3-4 Switch on the rear panel of the receiver is on the same channel.

2. If step 1 does not solve the problem, check the cables between the RF Output Connection (41) on the rear panel of the receiver unit and the Antenna Input Connection on the back of your television set.

3. Check the cable connection between the 1 GHz IN Connector (22) on the rear panel of the receiver unit and the 1 GHz Output Connection (49) on the Block Down Convertor.

4. Check the alignment of your satellite TV antenna system (reflector). To do so, put the receiver unit in the scan mode by depressing the Fast Scan Control (8) on the front panel of the receiver, and scan the channels until you see flashing colors on the television screen. Immediately take the receiver out of the scan mode by touching the Fast Scan Control again, and fine tune the alignment of the reflector.