Automatic Satellite System
with built-in DVB for positive satellite identification

Model 9704
Model 9704-LP
Installation and Operating Instructions
IMPORTANT!

The satellite TV market is expanding and changing. The information in this manual was accurate at the time of printing. If your King-Dome does not operate as outlined in this manual please call King Controls at (800) 982-9920 or visit our website at www.kingcontrols.com.

This King-Dome is factory ready to receive available HDTV programming from DIRECTV Ku band satellites at 101° and 119°. This King-Dome will also receive available HDTV programming from the DIRECTV Ku band satellite at 110°, but must include a properly installed HD converter accessory #9748. It will not receive channels broadcast from DIRECTV’s Ka band satellites at 99° and 103°.

Please read this entire manual before beginning the installation.

Note: The following upgrade kits are available for this unit:

Upgrade Kit #9743: Adds in-motion tracking capability.
Upgrade Kit #9748: Enables viewing of HD broadcasts from the DIRECTV 110° satellite.

For more information, call the King Controls Sales Department at (800) 982-9920.

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</tbody>
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The King-Dome Automatic Satellite System includes 2 main components (Fig. 1).

**Dome (Antenna) Unit**
Located on the roof of the vehicle. The dish is covered by a protective dome that keeps operational components free from the elements.

**Controller**
Located in the vehicle. Activates the search mode and provides limited diagnostic functions using the status light.

Note: A TV, satellite receiver, and program subscription are also required for satellite TV viewing (sold separately).
SECTION 2 DEFINITION OF TERMS

AZIMUTH: Circular rotation around the vehicle. Using a clock as reference, the front of the vehicle is 12:00, and the rear is 6:00 (Fig. 2).

ELEVATION: Angle in degrees measured from a level plane (Fig. 3).

SIGNAL STRENGTH: Intensity of electronic signal received from the satellite transmission.
SECTION 3  INSTALLATION

TOOLS AND MATERIALS REQUIRED:

- drill and drill bit set
- tape measure
- 7/16" open end wrench (coax connections)
- adhesive sealant (compatible with roof material)
- appropriate fasteners to install all components and wiring
- 5/32" allen wrench, channel lock or pliers (to remove shipping bolts)
- wire cutter (to remove shipping tie strap)
- #1844 King Controls Diagnostic Keypad

Note: The #1844 Diagnostic Keypad is required to configure the King-Dome for the proper satellite service.

KIT CONTENTS:

1. Unpack and identify all components (Fig. 4).
IMPORTANT! The tie strap and spacer, and the shipping bolts and washers must be removed from the bottom of the dome unit prior to installation. DO NOT REMOVE THE DOME COVER TO REMOVE THESE SHIPPING RESTRAINTS.

YOU MUST PLUG THE SHIPPING BOLT HOLES WITH THE SUPPLIED PLUGS (ATTACHED TO TIE STRAP SHIPPING RESTRAINT).

2. Remove and discard the tie strap and spacer (KEEP RUBBER PLUGS AND GREASE PACKET), and the 2 bolts and 2 washers that pass through the bottom of the base (Fig. 5).

3. Insert provided plugs into holes that were occupied by the shipping bolts. Inserted plugs should be flush with base (Fig. 5).
4. Select an area on the roof for the dome unit and the location where the wiring will enter the vehicle through the roof to the satellite receiver, controller, and 12 volt power source inside, using the following criteria:

a) The shortest distance between the dome unit and the satellite receiver is most desirable.

b) The dome unit requires a 28 inch diameter mounting area.

c) The dome unit should be mounted on the centerline of the vehicle.

d) There must be no “line of sight” obstructions. Air conditioning units, other antennas, and storage areas that are too close to the dome unit may prevent the satellite signal from reaching the dish (Fig. 6).

<table>
<thead>
<tr>
<th>HEIGHT OF OBSTRUCTION</th>
<th>APPROXIMATE MINIMUM DISTANCE TO DOME EDGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10”</td>
<td>8”</td>
</tr>
<tr>
<td>11”</td>
<td>10”</td>
</tr>
<tr>
<td>12”</td>
<td>12”</td>
</tr>
<tr>
<td>13”</td>
<td>14”</td>
</tr>
<tr>
<td>14”</td>
<td>16”</td>
</tr>
<tr>
<td>15”</td>
<td>18”</td>
</tr>
<tr>
<td>16”</td>
<td>20”</td>
</tr>
</tbody>
</table>

IMPORTANT! For installations on trucks with air shields, a bracket must be used for mounting the dome unit. The dome unit **MUST** be mounted to the air ride cab: **NEVER** to any structure mounted directly to the frame.

See bracket instructions for proper installation (Fig. 7).
5. Place dome unit on installation location chosen using the criteria discussed in the previous section. Shipping restraints must be removed, plugs must be inserted in holes (Fig. 5, Page 5), and cable connections must be positioned facing the rear of vehicle.

6. The dome unit must be positioned so that both feet on each side of the vehicle are equal distances from the roof edge. This should be checked by measuring the distance from each foot to the roof edge. Confirm that these measurements are equal (Fig. 8).

DOME INSTALLATION

IMPORTANT! Make sure shipping restraints are removed from bottom of dome unit and plugs are inserted in holes (Fig. 5, Page 5).

Cable connections must ALWAYS be positioned facing the rear of vehicle.

IMPORTANT! The dome unit MUST be mounted to the air ride cab: NEVER to any structure mounted directly to the frame.

IMPORTANT! The dome should never be mounted so that it is tilted more than two degrees in any direction.
7. Mount the dome unit. Use the pre-drilled holes in the mounting feet as a guide to install the fasteners into the roof. Use additional fasteners whenever necessary.

8. Test that the dome unit is secure by pulling upward from each foot location.

EXTERNAL WIRING

9. Plug external wire harness into wiring port on back of dome unit and tighten connection until it clicks past the detent lock (Fig. 9).

10. Fill end of coax cable that will connect to the MAIN port on the dome unit with supplied dielectric grease. Connect this end of the coax cable to the MAIN port and tighten connection (Fig. 9).

If using a second (auxiliary) receiver, fill end of second coax cable and connect it to the AUX port. Tighten connection.

DO NOT OVER TIGHTEN CONNECTIONS.

Note: The installer is responsible for determining the most appropriate fastener to secure the dome to the roof. Depending on the roof material, fasteners such as lag screws, well nuts, sheet metal screws, toggle bolts and T anchors may be used, and should always be used in combination with a roof compatible sealant.

IMPORTANT! The installer is responsible for weatherproofing all holes with sealant.

Note: The King-Dome is wired for multiple receiver support. There are two coax ports on the back of the dome unit. The one labeled “MAIN” MUST be connected to the main receiver in vehicle. This is the receiver that will control automatic satellite switching if applicable. The one labeled “AUX” can be used for an additional receiver.

IMPORTANT! You must fill the ends of all external coax cables with the supplied dielectric grease. Failure to do so will void warranty.

Note: The alignment tabs on the wiring port and the external wire harness plug must match up when engaging plug onto port. YOU MUST TIGHTEN THE PLUG UNTIL IT CLICKS PAST THE DETENT LOCK. (A channel lock pliers may be used to tighten the connection.)

IMPORTANT!
Fill ends of coax cables with supplied dielectric grease
Coax connections should be snug. DO NOT OVER TIGHTEN!
11. Run wires from the back of the dome unit to the roof edge, then along edge to location where wiring will be fed into the vehicle. (If installing an optional auxiliary receiver, run auxiliary coax to location where it will enter the vehicle.) Secure wiring to roof every 12-18 inches (Fig. 10).

12. Drill 3/4” hole through the roof and into the cabinet where receiver is stored. Feed wiring down through hole. Seal opening with roof compatible sealant so that it is completely waterproof (inside and outside of the 3/4” hole). Fasten cable entry cover to roof. Seal mounting holes, perimeter of cover and cable opening so they are completely waterproof. (Fig. 10).

13. Remove blue protective sheet and red “position to rear” sticker from the dome unit.
INTERNAL WIRING

14. Choose your desired wiring configuration:

Dish Network / ExpressVu / DIRECTV
(single satellite or auto switching from master receiver only) Fig. 11, Page 11

DIRECTV
(auto switching from any receiver) Fig. 12, Page 12

15. Inside the vehicle, make the connections as shown in the wiring diagrams, keeping in mind the following important points:

a) The connection between the dome unit and the receiver must be a direct connection with no devices in between.

b) Power connection must be a non-shared circuit. Excessive current draw on the circuit will cause the unit to operate improperly. Power and ground connections must be made after the wires are connected to the dome unit.

c) If fusing the circuit, the fuse must be rated at 7.5 amps.

16. When installation is complete, go to Section 4, SATELLITE CONFIGURATION on page 14.
Dish Network / ExpressVu / DIRECTV
King-Dome Models 9704, 9704-LP & 9704-LP-HD
Single satellite (or) multi-satellite with auto-switching from master receiver only

Note: When equipped with a DIRECTV HDTV converter (HD models), only the receiver connected to the MAIN output on the antenna is capable of receiving the specially formatted HD channels broadcast from the DIRECTV 110° satellite.

Note: HDTV receivers require HDMI or component video/audio cable connection to TV.
DIRECTV
King-Dome 9704, 9704-LP & 9704-LP-HD
Multi-satellite with auto-switching from any receiver

Note: To automatically switch between satellites using any receiver, tune all other receivers to channel 202 on the 101 satellite.

IMPORTANT!
Main coax cable must be connected to 18V input on multi-switch.

Note: Reception of the specially formatted HD channels from DIRECTV’s 110 satellite requires an optional HD converter accessory (#9748) sold separately.

HDTV receivers require HDMI or component video/audio cable connection to TV.

You can selectively disable automatic satellite switching on individual receivers with the use of one or more tone block accessories. Please contact King Controls for configuration options.
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The King-Dome is factory pre-set for DIRECTV standard digital programming broadcast from the 101° W satellite.

If you also receive your local channels from DIRECTV’s 119 satellite or if you subscribe to Dish Network or ExpressVu programming, you must use the Diagnostic Keypad to re-configure the antenna to work with your satellite service. Doing this will allow the King-Dome to lock on the correct satellites to receive your programming and also enable automatic satellite switching via the receiver’s remote control for multi-satellite service.

Antenna configuration is a one time procedure that must be completed before using your King-Dome antenna.

Choose your desired option on pages 16-17 and then follow the instructions below.

**DIRECTV SINGLE SATELLITE 101:** The system is factory pre-set for basic DIRECTV service broadcast from the 101° W satellite.

If you have this service, make sure your receiver is set for round dish-1 satellite (do this through the receiver’s satellite set-up menu screens). and then go to page 22, OPERATION.

**FOR ALL OTHER SERVICES:** You will need to change the Satellite Switching Mode and Satellite Provider Code. Determine your SWITCHING MODE and PROVIDER CODE from the chart on page 15 and then follow the instructions on pages 18-19.
**SWITCHING MODE AND PROVIDER CODE CHART**

<table>
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<tr>
<th>Service</th>
<th>Satellites</th>
<th>Switching Mode</th>
<th>Provider Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRECTV</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Satellite 101 (Factory Preset)</td>
<td>101</td>
<td>02</td>
<td>01</td>
</tr>
<tr>
<td>DIRECTV Plus</td>
<td>101, 119</td>
<td>16</td>
<td>01</td>
</tr>
<tr>
<td></td>
<td>101, 110*, 119</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dish Network</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Satellite 119</td>
<td>119</td>
<td>02</td>
<td>19</td>
</tr>
<tr>
<td>Dish 500 (SW21 Switch)</td>
<td>110, 119</td>
<td>26</td>
<td>10</td>
</tr>
<tr>
<td>Dish 1000 (SW64 Switch)</td>
<td>110, 119, 129</td>
<td>62</td>
<td>10</td>
</tr>
<tr>
<td>Dish 1000a (SW64 Switch)</td>
<td>61, 110, 119</td>
<td>66</td>
<td>10</td>
</tr>
<tr>
<td>Bell ExpressVu</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Digital 91</td>
<td>91</td>
<td>02</td>
<td>91</td>
</tr>
<tr>
<td>HDTV 82/91</td>
<td>82, 91</td>
<td>26</td>
<td>82</td>
</tr>
</tbody>
</table>

* Note: Requires optional DIRECTV HD converter accessory (#9748) sold separately.

This King-Dome is factory ready to receive available HDTV programming from DIRECTV Ku band satellites at 101° and 119°. This King-Dome will also receive available HDTV programming from the DIRECTV Ku band satellite at 110°, but must include a properly installed HD converter accessory #9748. It will not receive channels broadcast from DIRECTV's Ka band satellites at 99° and 103°.
SATELLITE SERVICE OPTIONS

DIRECTV

Single Satellite 101
Receive programming from the DIRECTV 101 satellite only.

DIRECTV Plus: 101, 119
Automatically switch between the 101 and 119 satellites for DIRECTV.

DIRECTV Plus: 101, 110, 119: HD Programming from the 110 Satellite
Receive the specially formatted HD signals from DIRECTV’s 110 satellite.

The HDTV Converter accessory #9748 must be installed to use this feature (sold separately). For more information call the King Controls Sales Department at (800) 982-9920.

IMPORTANT! This King-Dome is factory ready to receive available HDTV programming from DIRECTV Ku band satellites at 101° and 119°. This King-Dome will also receive available HDTV programming from the DIRECTV Ku band satellite at 110°, but must include a properly installed HD converter accessory #9748. It will not receive channels broadcast from DIRECTV’s Ka band satellites at 99° and 103°.

BELL EXPRESSVU (May not be available in all areas due to service provider limitations.)

Standard Digital 91
Receive programming from the 91 satellite only.

HDTV 82/91
Automatically switch between the 82 and 91 satellites for Bell ExpressVu by using the receiver’s remote control.
DISH NETWORK

Single Satellite 119

Receive programming from the 119 satellite only.

Dish 500

Automatically switch between the 110 and 119 satellites for Dish Network by using the receiver’s remote control.

Dish 1000/1000a

Dish Network HD programming is broadcast from 4 satellites (61,110,119,129). The 61 and 129 satellites broadcast identical programming. The 61 is generally stronger in the eastern U.S. and the 129 in the western U.S. The map below shows the approximate coverage for each satellite.

The King-Dome antenna can be easily configured to work with two different satellite trios (DISH 1000a: 61,110,119 or DISH 1000: 110,119,129). By choosing the appropriate trio that includes either the 61 or the 129 satellite based on where you are, you can receive all of your desired programming.

Note: This map is an approximation only. Which trio works best in a given location may differ from what is indicated on the map.

SATELLITES 61 AND 129 COVERAGE MAP
Perform the programming on these two pages using the codes you determined from the chart on page 15 (EXCEPT DIRECTV 101 SERVICE - see page 14).

SET SATELLITE SWITCHING MODE

1. Unplug the controller and plug in the Diagnostic Keypad.

2. Press ON.

3. Press * 46 # to display the current satellite switching mode.

4. To change the satellite switching mode, press * 96 #
   * 66 #
   * 88 #

5. Press the UP and DOWN arrows (2 and 8 keys) to choose the desired switching mode.

6. Press * 47 # to lock in setting.

7. Turn unit OFF and back ON to save setting.

8. Press * 46 # to display and verify code for new satellite switching mode.

9. Continue with SET SATELLITE PROVIDER CODE on next page.
SET SATELLITE PROVIDER CODE

1. Press *24# to display the current service provider.

2. To change the current service provider, press *96#
   *66#
   *88#

3. Press the UP and DOWN arrows (2 and 8 keys) to choose the desired service provider.

4. Press *25# to lock in setting.

5. Turn unit OFF and back ON to save setting.

6. Press *24# to display and verify code for new service provider selected.

7. Press OFF.

8. Unplug the Diagnostic Keypad and plug the controller back in.

9. **DIRECTV Plus: 101, 119**

    Set your receiver for oval dish-2 satellites (do this through the receiver’s satellite set-up menu screens), then go to page 22, OPERATION.

**DIRECTV Plus: 101, 110, 119**

Set your receiver for oval dish-3 satellites (do this through the receiver’s satellite set-up menu screens), then go to page 22, OPERATION.

**Dish Single Satellite 119**

**Dish 500**

**Dish 1000/1000a**

**Bell ExpressVu Standard Digital 91**

**Bell ExpressVu HDTV 82/91**

Go to page 20 and run the check switch.
1. Turn on the TV and satellite receiver.

2. On the King-Dome controller, press and hold the ON/SEARCH button for 3 FULL SECONDS.

   The antenna will lock onto the appropriate satellites before completing the search process.

   After the satellites have been located and the acquisition process is complete, the status light will be steady green.

3. On the receiver remote, press menu, 6, 1, 1.

4. Highlight Check Switch and press select.

5. Make sure Superdish and Alternate boxes are NOT selected.

6. Highlight Test and press Select.

   The unit will perform a check switch test, and the dish will periodically move back and forth. (This process will take several minutes.)
7. When test is complete, a screen similar to one of the following should appear: (Screen graphics may vary.)

If indicated results are not obtained, go back to Step 3 and run test again. Contact King Controls if the check switch fails to load after 4 attempts.

8. Save the settings, exit to the main menu screen and wait for your programming to download.

9. **DISH 1000/1000a ONLY:** Verify your saved settings show your desired satellite trio (110, 119, 129 or 110, 119, 61). To switch trios, see page 24.

Configuration is complete. Go to page 22, OPERATION.
IMPORTANT: There must be a clear "line of sight" to the southern sky. Mountains, buildings, trees, telephone poles, etc. can all block the satellite signal from reaching the dish.

The distance driven since last performing a search may affect how long it takes for the King-Dome to find the satellite.

This King-Dome is factory ready to receive available HDTV programming from DIRECTV Ku band satellites at 101° and 119°. This King-Dome will also receive available HDTV programming from the DIRECTV Ku band satellite at 110°, but must include a properly installed HD converter accessory #9748. It will not receive channels broadcast from DIRECTV's Ka band satellites at 99° and 103°.

Satellite TV and receiver technology are constantly changing. If you experience difficulty go to www.kingcontrols.com or contact the King Controls Service Department at (800) 982-9920, ext. 373.

1. Turn on TV and Receiver. “Searching for Satellite” or similar will appear on TV screen.

2. On King-Dome controller, press and hold ON/SEARCH for **3 FULL SECONDS**.

   Power light turns steady GREEN.

   **STATUS LIGHT**
   
   a) flashes a variety of colors for about 30 seconds
   
   b) RED-flashing
   
   c) GREEN-flashing (may start flashing RED again)
   
   d) GREEN-steady

   **SYSTEM STATUS**
   
   unit performs self-diagnostic

   search in progress

   potential satellite found

   satellite(s) found and search is complete

3. When the status light is steady green, select a channel or the program guide to view your programming. Enjoy! (DO NOT TURN THE KING-DOME OFF IF USING THE AUTOMATIC SATELLITE SWITCHING FEATURE.)

Note: If the status light is steady GREEN and your programming does not appear, press the reset button on your DIRECTV receiver. If using Dish Network, hold the receiver power button in for 10 seconds to reset your receiver. Consult your receiver owner's manual for further details. (Note that it may take several minutes for the guide to re-download.)

When receiver reset is complete and the guide is downloaded, select a channel or the program guide to view your programming.
AUTOMATIC SATELLITE SWITCHING

1. After you have properly configured the antenna for your satellite service, the King-Dome will automatically switch between satellites by simply selecting your desired channel using the receiver's remote control.

Dish Network HD users: If you are unable to receive all of your HD programming, see Dish Network HDTV: Changing the Satellite Trio on page 24.

Note: For better performance when using the automatic satellite switching feature, change channels by selecting your program from the channel guide rather than channel surfing.

It is common for the picture to pixel or display an error message when the antenna is switching between satellites, or the signal has been temporarily blocked. PLEASE BE PATIENT. THE PICTURE WILL RETURN.

If an error message appears for an extended period, selecting CANCEL may help clear the message more quickly.
DISH NETWORK HDTV: Changing the Satellite Trio

IMPORTANT! Perform this procedure only if you are unable to receive all of your HD programming in a particular area of the country.

You cannot change trios if the antenna has not been initially configured for Dish 1000 or 1000a (see pages 14-21).

To change the desired satellite trio for Dish Network HD, you must have a handheld multi-switch controller #1824 or #1869, or a wall mount controller (the handheld single-switch controller #1854 will not work with this feature). If you have a handheld single switch controller please call King Controls at (800) 982-9920.

Dish Network HD programming is broadcast from 4 satellites (61,110,119,129). The 61 and 129 satellites broadcast identical programming. The 61 is generally stronger in the eastern U.S. and the 129 in the western U.S. The map below shows the approximate coverage for each satellite.

Your King-Dome antenna can be easily configured to work with two different satellites trios (DISH 1000a: 61,110,119 or DISH 1000: 110,119,129) as you travel from one coverage area to another. By choosing the appropriate trio that includes either the 61 or the 129 based on where you are, you can receive all of your desired programming.

SATELLITES 61 AND 129 COVERAGE MAP

Note: This map is an approximation only. Which trio works best in a given location may differ from what is indicated on the map.
1. Press ON. Wait for the Status Light to flash orange, and then flash green or red.

2. Click ON 4 times. Status Light starts rapidly flashing green and red.

3. Select your desired trio:

   **61/110/119 Trio**
   - Press and hold the lower button to the left for 4 seconds.
   - Press and hold the right button down for 4 seconds.

   The Status Light turns orange for 1 second and then starts flashing green or red.

   **110/119/129 Trio**
   - Press and hold the lower button to the right for 4 seconds.
   - Press and hold the right button up for 4 seconds.

   The Status Light turns orange for 1 second and then starts flashing green or red.

4. Turn the unit off.

5. Perform a stationary search and reload the check switch (see pages 20-21).
   **YOU MUST DO THIS STEP!**

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**EXTREMELY IMPORTANT!**
You **MUST** perform a stationary search and reload the check switch any time you reconfigure your trio.
## SECTION 6 TROUBLESHOOTING

### SYMPTOM

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE REASON</th>
<th>COURSE OF ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit does not find satellite. (STATUS light flashes red or green.)</td>
<td>Did not hold ON/SEARCH button for 3 FULL SECONDS.</td>
<td>Hold ON/SEARCH button for 3 FULL SECONDS.</td>
</tr>
<tr>
<td>STATUS light flashes orange.</td>
<td>Before search: bad coax connection.</td>
<td>Call King Controls.</td>
</tr>
<tr>
<td></td>
<td>After unsuccessful search (approximately 25 minutes): obstruction in line of sight between dome and satellite.</td>
<td>Move vehicle to have unobstructed view of southern sky.</td>
</tr>
<tr>
<td>STATUS light does not stop rapidly flashing red and green.</td>
<td>Self check failed: potential motor problem.</td>
<td>Call King Controls.</td>
</tr>
<tr>
<td>STATUS light does not turn on or is dim.</td>
<td>Bad power source (low voltage).</td>
<td>Call King Controls.</td>
</tr>
<tr>
<td></td>
<td>Bad power or controller cable connection at dome.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bad controller cable connection at controller.</td>
<td></td>
</tr>
<tr>
<td>STATUS light is steady green but no picture.</td>
<td>Satellite receiver is off or requires reset.</td>
<td>Turn receiver on or reset.</td>
</tr>
</tbody>
</table>

### DIRECTV HDTV (with installed #9748 Converter)

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE REASON</th>
<th>COURSE OF ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>When a channel from the guide is selected, “Searching for Satellite” appears on the screen.</td>
<td>The new channel selected is not found within the currently selected pair.</td>
<td>Press SATELLITE PAIR to change the switching pair between 101/110 and 101/119 as necessary.</td>
</tr>
<tr>
<td>When a channel from the guide is selected, a different program appears on the screen.</td>
<td>The new channel selected is not found within the currently selected pair.</td>
<td>Press SATELLITE PAIR to change the switching pair between 101/110 and 101/119 as necessary.</td>
</tr>
</tbody>
</table>

### Dish Network HDTV

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE REASON</th>
<th>COURSE OF ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>I don’t get all of my HD channels.</td>
<td>Satellite is obstructed.</td>
<td>Move vehicle to have unobstructed view of southern sky.</td>
</tr>
<tr>
<td></td>
<td>Traveled outside of satellite trio coverage area.</td>
<td>Change satellite trio and reconfigure receiver (see pages 24-25).</td>
</tr>
</tbody>
</table>
The King-Dome Satellite System has been designed to be maintenance and trouble free.

For optimum signal strength, keep the dome clean from dirt, bugs, and other debris. Periodic washing of the dome with mild soap and water is recommended.

If you plan on storing your vehicle for long periods of time, it is recommended that the system be put through a search procedure on a quarterly basis to keep all moving parts in good working order.

If you have any comments or questions, please contact the King Controls Service Department at (800) 982-9920, or email King Controls at info@kingcontrols.com

Rain Fade

Rain or dew on the dome can cause signal interference and make the digital picture freeze, pixel or go out altogether. This loss of signal is commonly referred to as “rain fade” and is caused by the combination of water in the atmosphere and water on the dome surface.

To minimize this issue and eliminate the effects of water on the dome, apply King Controls Dome Magic® rain fade solution to the dome. This will prevent water from sticking to the dome surface and blocking the signal. For additional details on Dome Magic® rain fade solution please contact your authorized King-Dome dealer or call King Controls at (800) 982-9920.

Note: Dome Magic® will discolor black domes or domes painted a dark color.
Every King-Dome Satellite System is thoroughly inspected and tested before leaving the factory. It is covered by a two year parts and one year labor limited warranty from the date of original purchase. This warranty does not cover installation and external wiring or refurbished units.

Should any trouble develop during the warranty period, contact King Controls. Only King Controls and certified dealers are authorized to perform warranty evaluations and repairs.

If it is determined that the unit needs to be returned, return COMPLETE product, freight prepaid, to: King Controls, 11200 Hampshire Ave. S. Bloomington, MN 55438-2453.

If inspection shows the trouble is caused by defective workmanship or material, King Controls will repair (or at its option, replace) without charge.

This warranty does not apply where:

- The product has been abused, misused, improperly installed or improperly maintained.
- Repairs have been made or attempted by others who are not certified by King Controls to do such repairs.
- Repairs are required because of normal wear and tear.
- Alterations have been made to the product.

In no event shall King Controls be liable for any indirect, incidental, or consequential damages from the sale or use of the product. This disclaimer applies both during and after the term of the warranty.

King Controls disclaims liability for any implied warranties, including implied warranties of “merchantability” and “fitness for a specific purpose,” after the one year term of this warranty.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.