Satellite TV Antennas

Roof-Mounted Dome Antennas

Azimuth and elevation pointing look angles are provided for easy pointing and setup of manual antennas.

Winegard App

TV Signal Finder with AR

AR view
- Point your phone at the southern sky
- See signal obstructions such as trees and buildings

This app requires the use of the camera, GPS, and compass in your smartphone. Compass accuracy is based on calibration and distance from large objects that may cause magnetic interference.
Roof Location Requirements

The RoadTrip Mission has a diameter of 20”, the Pathway X1 and Carryout G2 antennas have a diameter of 14”, and the Carryout G3 and DISH® Playmaker/Dual have a diameter of 16”; make sure the chosen location meets this minimum roof space requirement. Also, check that the distance from the edge of the roof to the nearest foot is at least 12”, and keep in mind that the cable connections on the base must face the rear of the vehicle.

To ensure that obstructions do not block the signal from the satellite, the chosen location must additionally meet the clearance requirements below (see fig. 5.1).

Do not attempt to install this system in the rain or under any wet conditions. Moisture may affect electronics and void your warranty. In addition to potentially affecting the electronics, installing a system in wet conditions is a safety hazard to the installer, as well.

Do not paint the antenna. Painting the antenna will void your warranty.

Model RK-2000 roof mount kit includes everything needed to convert the Pathway X1 or Carryout G2 / G2+ antenna from a portable to a roof-mounted antenna. The following parts are included with the roof mount kit:
- Mounting foot (3)
- Wall plate
- Power switch
- Wall plate hardware
- Cable entry plate
- Cable entry hardware

Model RK-4000 roof mount kit includes everything needed to convert the Carryout G3 or the DISH Playmaker antenna from a portable to a roof-mounted antenna. The following parts are included with the roof mount kit:
- Mounting foot with Screw (4)
- Cable entry plate
- Mounting Screw (20)
- Cable tie (2)

G3 requires a Torx T-20 bit to remove the dome (not included). For RV only.

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**FIGURE 5.1.** Distance to be maintained from antenna according to obstruction height.

A, Mission clearance requirements.

B, Pathway X1, Carryout G2 & G2+, RoadTrip T4 & P4 clearance requirements.

C, DiSH Playmaker/Dual & Carryout G3 clearance requirements.
Switch Settings

The RoadTrip P4, T4, Carryout G2, G2+ and G3 antennas are preset for DIRECTV programming. If using these antennas with DISH or Bell TV™ programming, change the numbered dip switches found on the electronics box.

<table>
<thead>
<tr>
<th>Provider</th>
<th>Primary Satellite</th>
<th>Alternate Satellite</th>
<th>Switch Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRECTV</td>
<td>101°</td>
<td>119°</td>
<td></td>
</tr>
<tr>
<td>DISH</td>
<td>119°</td>
<td>110°/129°</td>
<td></td>
</tr>
<tr>
<td>Bell TV</td>
<td>91°</td>
<td>82°</td>
<td></td>
</tr>
</tbody>
</table>

To complete a successful search, the antenna must locate the primary satellite but does not need to locate alternate satellites. If the dome was removed to change the switch settings, place the dome back over the base, and insert and tighten the dome screws.

Installing the Antenna on the RV Roof

Choose a location on the RV roof to install the roof-mounted satellite TV antenna, and place the antenna in the chosen location (refer to pgs. 9-10). Before installing the Pathway X1, Carryout G2 or G2+ antenna, the rubber feet must be removed, and the metal feet must be installed on the RV. The Carryout G3 or DISH Playmaker can be converted to a permanently mounted antenna with the RK-4000 Roof Mount Kit. Do not place the antenna upside-down on the roof as this may cause damage to the dome. Rotate the base until the cable connections face the back of the vehicle. Level the base front-to-back and side-to-side. Once the antenna is in the chosen location, trace around each foot. Remove the antenna from the installation area, and apply sealant in the traced area. Carefully place the feet directly onto the sealant. Check with your vehicle manufacturer for any special screw requirements for your vehicle, and screw each foot to the roof.
When deciding the best location for cables to enter the vehicle, it may be helpful to remove the RV’s front television system to locate the best place for cable routing.

Remember to set up secondary receiver on primary coax, so proper switch/set-up is accomplished.

TIP: If this isn’t done, the secondary receiver will not get all of the channels that the primary receiver can get.

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Wiring the RoadTrip Antenna

Cables should be connected after the antenna has been installed (see fig. 5.3). Determine the best location for cables to enter the vehicle and for the power switch, and drill a 1” hole in the roof for cables to enter the vehicle.

To wire the RoadTrip antenna, complete the following steps:

1. Connect the quick disconnect power cable to the quick disconnect socket on the antenna base.
2. Connect a coax cable from the primary receiver to the main port on the back of the base. For installations that require a secondary coax cable, connect the cable to the secondary port on the back of the base.
3. Choose a location to install the power On/Off switch. When selecting a location, remember that you will need to run the +12VDC power cable from the Winegard satellite system to the switch.
4. For a wall or panel mount, drill 1¼” hole, and pull wires through wall or panel.
5. Be sure the switch is in the Off position before continuing. See fig. 5.2.
6. Locate the other holes for the remaining two mounting feet, keeping in mind that the feet should be equally spaced around the base. Install the remaining two mounting feet.
7. Connect a small red flag connector to isolated spade on switch.
8. Connect the red wire from the antenna to the small red flag connector.
9. Connect the small red flag connector to the center spade on switch.
10. Slide the ground wire from the vehicle into one end of the barrel crimp splice, and slide the black ground wire from the antenna into the opposite end of the splice. Crimp the splice.

A filtered power source is required. If possible, go directly to the battery, or use a separate power supply. 12 volts of power at a max amperage of 5 amps is required.

Depending on the length of the cable on the roof, you may need to use cable clamps between the unit and the cable entry plate. Clamping every 12–16” should eliminate any unnecessary cable movement.
Wiring the Pathway X1 or Carryout G2 Antenna

Before wiring the Pathway X1 or Carryout G2 antenna, the roof-mount feet must be installed on the antenna. To install the mounting feet, complete the following steps:

1. If the handle has been installed, remove the screws holding the handle to the antenna with a Phillips screwdriver, and remove the handle.
2. Using a Phillips screwdriver, remove the feet from the bottom of the base.
3. Remove the dome screws with a Phillips screwdriver. Remove the dome.
4. Remove the two nuts holding the eyelet to the base with a 3/8" socket wrench. Remove the eyelet.
5. Insert the two threaded posts on a mounting foot through the two holes from which the eyelet was removed, and thread a hex nut onto each post.
6. Locate the other holes for the remaining two mounting feet, keeping in mind that the feet should be equally spaced around the base. Install the remaining two mounting feet.
7. Using a 3/8" socket wrench, tighten all hex nuts holding the mounting feet to the base.
8. Place the dome back onto the base, and re-install dome screws.

To wire the Pathway X1 or Carryout G2 antenna, complete the following steps:

1. Connect a coax cable from the primary receiver to the main port on the back of the base. For installations that require a secondary coax cable, connect the cable to the secondary port on the back of the base.
2. If there is a power socket on the base, connect one end of the power cable to the power socket on the base. If the antenna requires connection to a 12V power source via a power cable, cut off the power cord 12V plug.
3. Drill a hole in the roof for the cables, and push the wires inside. Install the provided cable entry plate over the hole and cables.

To install the power switch (not used with the Pathway X1 antenna), complete the following steps:

1. Choose a location to install the power On/Off switch. When selecting a location, remember that you will need to run the +12VDC power cable from the Winegard satellite system to the switch.
2. For a wall or panel mount, drill 1¼" hole, and pull wires through wall or panel.
3. Be sure the switch is in the Off position before continuing. See fig. 5.2.
4. Connect the +12V power wire from the vehicle to a small red flag connector.
5. Connect a small red flag connector to isolated spade on switch.
6. Connect the red wire from the antenna to the small red flag connector.
7. Connect the small red flag connector to the center spade on switch.
8. Slide the ground wire from the vehicle into one end of the barrel crimp splice, and slide the black ground wire from the antenna into the opposite end of the splice. Crimp the splice.

The wall plate and power switch provided with the roof mount kit are different from the wall plate and power switch provided with the RoadTrip antennas (see fig. 5.4).
Wiring the Carryout G2+ or G3 Antenna

With the power button on the power inserter in the OFF position (not pressed in), connect the primary port of the Carryout G2+ or G3 to the ANTENNA port on the power inserter with the 25' coaxial cable. With your fingers, twist the cable on, and tighten a quarter turn more with a wrench. Do not overtighten.

Connect the “SAT IN” port of your satellite receiver to the RECEIVER port of the power inserter with the 3' coaxial cable. With your fingers, twist the cable on, and tighten a quarter turn more with a wrench. Do not overtighten.
Sealing

Apply sealant around the edge of feet and over screws (see fig. 5.7). When sealing the antenna, do not apply sealant to the hex nuts on the feet. This way, the antenna can be removed (if necessary) from the roof without breaking the sealant.

After wiring the antenna, seal around the hole where cables enter the vehicle and in-between cables. Fasten the cable entry plate to the roof, and seal around the perimeter of the cable entry plate, especially the point at which cables enter the plate (see fig. 5.8). Allow sealant adequate time to cure.

Receiver Recommendations

Winegard RoadTrip, Carryout G2, G2+ and G3 antennas will operate with most DISH and DIRECTV receivers. Winegard recommends using a single tuner receiver. Recommended models include the DISH Wally, 211z and DIRECTV H-24 receivers. Winegard does not recommend using receivers with built-in hard drives not recommended by the manufacturer for mobile applications. These receivers are more susceptible to issues due to excessive heat and/or vibrations found in RV installations. See NOTES at right.

The Pathway X1 antenna is exclusively compatible with DISH Solo HD receivers Wally and 211z.

The DISH Wally or 211z receiver and DIRECTV H24 single tuner receiver are recommended for use with RoadTrip or Carryout antennas (see fig. 5.9). The Pathway X1 is exclusively compatible with DISH Solo HD receivers such as the Wally and 211z receiver.

NOTE: The DIRECTV HD programming will not be available with RoadTrip or Carryout antennas even if a DIRECTV HD receiver is used.

NOTE: DISH Hoppers and DIRECTV Genies DO NOT work with domes at this time.
Before turning on the antenna, complete the following steps to clear out existing receiver settings in order to set up the RoadTrip, Carryout G2, G2+ or G3 antenna for use with DISH® programming (see fig. 5.10 and 5.11). Before starting, disconnect the coax cable from the “Sat In” port on the back of the receiver.

If your receiver differs from the options shown, you may need to consult your receiver manual. The wording and display used in your receiver may differ slightly.

After completing the setup on the main receiver, power on the secondary receiver. If using a new receiver, you will be guided through the setup by the Installation Wizard; follow the on-screen steps to complete the setup.

If using a receiver that is currently active or has been used previously, you will need to complete the setup by doing a Check Switch test. To access the receiver menu for running a Check Switch test, follow the steps below.

If you need to access the receiver menu after initial setup, follow the steps below to reach the receiver menu.

Online receiver setup guides are available for Winegard antennas at www.winegard.com/receivers/setupguide.php.

For the Wally and Hopper and future receivers, instead of pressing Menu 6:1:1, use the steps >home>settings>diagnostics to get into the receiver set-up.

Receiver setup must be completed for each receiver being used with the roof-mounted satellite TV antenna. When setting up a secondary receiver for use with the antenna, connect the secondary receiver to the main port. After receiver setup is complete, re-connect the secondary receiver to the secondary port and the primary receiver to the main port.

**Mike’s Note:** If a DISH receiver will not let you into the menus, try pressing *#*# on the remote (this works about 30% of the time) OR hold the power button in continuously until the picture goes blank on the receiver. When the picture comes back on, you need to press the menu within 3 seconds on the remote.

FIGURE 5.10. Steps 1–2 of DISH receiver setup for RoadTrip, Carryout G2, G2+ & G3 antennas
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Step 3
Within the “Diagnostics” menu, select “DISH” on the left side.

Step 4
Press “Test Installation 5” to start the Check Switch test.

Step 5
The “Check Switch Status” screen will show the progress.

Step 6
The receiver will acquire the signal.

Step 7
Lastly, the receiver will download the Program Guide.

FIGURE 5.11. Steps 4–6 of DISH receiver setup

Mike’s Note: On Step 5, if you see a switch that starts with DP, clear it out by running a check switch with no signal supplied to the receiver.

Also, due to some protocol changes, for domes manufactured before 2012, you need to be on the 119 satellite and an odd numbered transponder with signal, (sometimes an even transponder for a few model numbers of receivers). Then the check switch will pass correctly.

A tracking antenna will be completely silent when in Standby mode unless the dish toggles to a different satellite when a channel is requested by the remote control.

The SW64 switch is a DISH receiver setting (not a physical part).

If the SW64 or 6 to 4 switch is not installed after completing Step 6 with an older model of receiver, try checking “SuperDISH” or “Alternate” before selecting “Test.” Switch SW42 was used on domes before HD came out.
DISH® Receiver Setup for Wally® Receiver

After connecting the antenna to a receiver and the receiver to a power source, complete receiver setup for the primary receiver. The primary receiver determines which satellite is viewed; if using a secondary receiver, the secondary receiver will need to be set up for that satellite. The secondary receiver will require a Check Switch test every time the primary receiver toggles to a different satellite.

If using the new Wally receiver with the DISH® Playmaker®/Dual antenna, the receiver will go through an Installation Wizard to help with the setup process.

During the search routine, the antenna will scan for satellites. The antenna may make a slight grinding sound when searching for satellites; this is normal and does not harm the unit. Once the search routine is complete, the receiver will update.

The receiver may reboot automatically as part of the update process. If so, select the state of your current location on the Mobile Antenna Setup screen, and press “Scan” to begin the search routine.

If not already activated, the receiver will need to be activated. To activate the receiver, call Winegard Company at 1-866-609-9374.

During step 2 of the Installation Wizard, the unit will need to acquire satellites and may update the receiver (figures 1-6). This step will require a search initiated by the Mobile Setup screen. Fill in the required information, and then select “Scan” to begin the search routine (figures 1-3).

During the search routine, the antenna will scan for satellites. The antenna may make a slight grinding sound when searching for satellites; this is normal and does not harm the unit.
Receiver Setup for Currently Active or Previously Used Wally Receiver

If the receiver you will be using with the DISH Playmaker / DISH Playmaker Dual antenna is an older receiver that has not been used in several years, you may need to connect the receiver to a DISH home satellite to be updated before proceeding with the mobile setup. After the receiver has been powered on, the receiver will enter the Mobile Setup menu.

Step 4
Once the search routine is complete, the receiver may update.

Step 5
If not already activated, the receiver will need to be activated (figure 6). To activate the receiver, call Winegard Company at 1-866-593-0348.

After the receiver has been activated, the receiver will begin acquiring signal and downloading the Electronic Programming Guide. Once the download is complete, you can start watching TV.

Step 6
The receiver may reboot automatically as part of the update process. If so, select the state of your current location on the Mobile Antenna Setup screen as in figures 1 & 2. Press “Scan” to begin the search routine. The satellite will search for and acquire satellites.

IF the mobile setup menu does not appear, press and hold power button on the front panel of the receiver for 3 seconds to reset the receiver.

FIGURE 5.13. Steps 4–6 of DISH receiver setup for the Wally receiver
DIRECTV® Receiver Setup for RoadTrip, G2, G2+ & G3 Antennas

Connect the receiver to a power source, and complete receiver setup. Receiver setup for the primary receiver follows; if your receiver differs from the options shown, you may need to consult your receiver manual. The wording and display used in your receiver may differ slightly. Check out online receiver setup guides for your antenna at www.winegard.com/receivers/setupguide.php. For more information on receiver compatibility and programming, visit www.winegard.com/receivers.

Mike’s Note: software updates may change what you see on the TV, however, Set-up remains the same, so far. Menu/Settings/Satellite/Repeat Satellite Set-up.

Online receiver setup guides are available for Winegard antennas at www.winegard.com/receivers/setupguide.php.

HD receiver screens and steps may vary slightly.

Mike’s Note: From the Searching screen, if you cannot get into the menus, you could wait 10 minutes for the receiver to timeout or just continuously hold down the info button on the remote until a menu pops up.

FIGURE 5.14. Steps 1–3 of DIRECTV receiver setup
Step 4
Errors may be displayed on the Installation Status screen. It is normal to see one or two boxes with an “X” instead of a “.”
Select “Continue”. Select “Continue” again. The program guide will download.

Step 5
When the status bar reaches 100%, press “Continue”. The receiver will run Data Feed and Guide Feed Tests for a few moments. When prompted to set up the remote, select “Setup Remote Later” to do this at a later time. Select “Watch DIRECTV”. Receiver setup is now complete.

Step 6
Select “Continue.” The program guide will download. When the status bar reaches 100%, press “Continue.”

If you would like to check signal strengths, choose “Signal Strength” from the menu options before returning to this screen.

A tracking antenna will be completely silent when in Standby mode.

Mike’s Note: On step 6, if the counter to 100% stalls out, 5 minutes max, the wrong dish type is selected or there may be an issue with the coax. Try a bypass RG 6 Coax. See the recommended setting in the manual for the antenna you are using.

After completing receiver setup for DISH or DIRECTV, the process will only need repeated if changed by the user. If the user is using the receiver at home, different settings will be required for home use.

FIGURE 5.15. Steps 4–6 of DIRECTV receiver setup
DISH® Receiver Setup—Pathway X1 Antenna

After connecting the antenna to a receiver and the receiver to a power source, complete receiver setup for the primary receiver. The primary receiver determines which satellite is viewed; if using a secondary receiver, the secondary receiver will need to be set up for that satellite. The secondary receiver will require a Check Switch test every time the primary receiver toggles to a different satellite.

If setting up a new Wally receiver with the Pathway X1 antenna, the receiver will go through an Installation Wizard to help with the setup process. Follow the on-screen instructions to program the remote control.

Step 1
The Installation Wizard will pair the remote to the receiver.

Step 2
Fill in the required information, and then select “Scan” to begin the search routine.

Step 3
Once the search routine is complete, the receiver may update.

Step 4
The receiver may reboot automatically as part of the update process. If so, repeat Steps 1 and 2. Press “Scan” to begin the search routine. The satellite will search for and acquire satellites.

During Step 2, the unit will need to acquire satellites and may update the receiver. This step will require a search initiated by the Mobile Setup screen. During the search routine, the antenna will scan for satellites.

During the search routine, the antenna will scan for satellites. The antenna may make a slight grinding sound when searching for satellites; this is normal and does not harm the unit. Once the search routine is complete, the receiver may update.

If not already activated, the receiver will need to be activated. To activate the receiver, call Winegard Company at 1-866-609-9374.

The receiver may reboot automatically as part of the update process. If so, select the state of your current location on the Mobile Antenna Setup screen, and press “Scan” to begin the search routine.

FIGURE 5.16. Steps 1–4 of DISH receiver setup for the Pathway X1 antenna
Updating Receiver Software
For optimal performance, update receiver software occasionally.

Step 1
To allow the software to update, leave the satellite on signal, and press the Power button the remote or front panel of the receiver; this will put the receiver in Standby mode. Do not unplug the receiver at this time.

Step 2
After being in Standby mode for a few minutes, the software will automatically begin to update. Upon completion of the update, the receiver will reboot. After the receiver has rebooted, the receiver will need to re-acquire satellites and complete setup.

FIGURE 5.17. Steps 1–2 of updating receiver software for the Pathway X1 antenna

If the receiver is in Standby mode for more than five minutes, no software update is necessary. Turn the receiver back on to resume normal operation.

Operation of Secondary Receiver with Pathway X1
When using a secondary receiver with the Pathway X1 antenna, the secondary receiver does not have the full function of the primary receiver.
The primary receiver will determine which satellite is viewed, and the secondary receiver will need to be set up for that satellite.
If the primary receiver changes to a channel on a different satellite, the secondary receiver will lose reception and need to complete setup again on the new satellite. Refer to the Pathway X1 manual for more information on setting up the secondary receiver.

Operation of Secondary Receiver with RoadTrip Mission, P4 and T4, Carryout G2, G2+ & G3
When installing a secondary receiver, the initial setup has to be performed on primary coax in order to download the proper check switch information. Once the SW64 switch is downloaded into the secondary receiver it can be moved to the secondary coax.
Five Basic Steps to Operation

There are five basic steps to operation; however, some steps are only used with in-motion systems. The five basic steps are homing, GPS acquisition, searching, tracking, and standby.

Homing

After turning on the power switch, the roof-mounted satellite TV antenna will make a series of movements to check its rotational limits. As the antenna checks its rotational limits, you may hear a slight grinding sound. This process ensures that the satellite dish knows where it is pointing relative to its mechanical limits.

GPS Acquisition (In-Motion Models Only)

In-motion antennas have a GPS antenna and will acquire a GPS signal after completing the homing process (see fig. 5.18). This can take as little time as a few seconds or as much time as a few minutes; if the antenna is in a new location over 600 miles from where it was last used, GPS acquisition may take longer than one to two minutes. If the antenna does not acquire GPS after homing, the antenna will turn 90 degrees and try again, repeating this process until acquiring GPS.

Searching

The antenna will set an initial search elevation and will begin searching for satellites. To do so, the antenna will make 360 degree scans of the sky at different elevation angles until satellites can be found. During this process, it is normal for the receiver signal meter to show signal strength and then show no signal temporarily as the antenna continues to find alternate satellites. Once all necessary satellites are found, signal will return. Eventually, the dish will time out if no satellites are found. After moving to a better area, cycle the power to get a new search.
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Tracking

While tracking, an in-motion RoadTrip antenna will actively follow the satellite while the vehicle is in motion. If the user changes to a channel on an alternate satellite, the system will “toggle” in tracking mode. The tracking process will continue until the vehicle is stationary for six or seven minutes. It is common for the noise level to be greater when the antenna is actively tracking the satellite compared to when the antenna is in standby mode. After six or seven minutes of no movement, the satellite system will stop tracking and go into standby mode.

Standby

During standby, the antenna will remain locked onto the required satellite. The satellite system will be completely silent during this mode except when the user initiates a “toggle” by changing to a channel on a different satellite. In-motion antennas will exit standby and return to tracking if the vehicle begins moving at a speed greater than ten miles per hour.

Automatic Toggling

Winegard roof-mounted satellite TV systems will look at one satellite at a time. If a satellite provider has programming spread across multiple satellites, the antenna may have to move to a look at a different satellite in order to access the desired channel. This is done automatically as the user changes channels and is often referred to as automatic toggling.

Automatic toggling is controlled by the receiver that is connected to the main coax port on the base. Any other receivers (or DVRs with multiple tuners) will only be able to view channels on the same satellite as the receiver connected to the main port.

If experiencing issues with the antenna, there are two main functions of the antenna to troubleshoot, mechanical operation and signal acquisition.

Mechanical operation refers to the unit receiving proper power and mechanically completing all necessary steps for operation. If the antenna does not demonstrate any issues with moving or searching, then troubleshooting would most likely deal with the second function, signal acquisition. Signal acquisition refers to the antenna receiving signal and delivering the signal to the receiver; this function often deals with coax wiring and receiver setup.
Mechanical Operation Issues

Antenna Does Not Move

If the RoadTrip or Carryout antenna does not move at all, check for proper connection to a 12 VDC power source. Measure voltage on the black power plug on the electronics board to ensure that 12 VDC is being supplied to the unit (see fig. 5.19). At times, the antenna may require up to five amps of current; if using a power converter, make sure the converter is rated for such usage. If using a Pathway X1 antenna, check coax connections.

Note: Carryout G2+ & G3 uses a power inserter; check for power. Also, check the fuse or circuit breaker on the electronic board.

Antenna Does Not Rotate Properly

If the antenna powers on but does not rotate or “home” properly, check all connections and cabling to the main electronics board. If the two motor connections and GPS connection (on in-motion antennas only) are not properly connected, the antenna may not be able to rotate and search correctly.

Signal Acquisition Issues

Antenna Never Pauses on Signal

If the antenna constantly searches without ever pausing on a signal, this typically indicates that the LNB is not receiving power. The LNB is powered by the satellite receiver, which outputs 13–18 VDC to the “Satellite In” port.

If the antenna never pauses on a signal, complete the following steps:

a. Check for voltage on the coaxial connections to the LNB; if voltage is not present, trace down from the LNB to the receiver, checking for voltage at all connections.

b. Check that incompatible devices (e.g. video switches, splitters) are not installed between the antenna and receiver. Try running a known good coax cable directly from the electronics board to the receiver.

c. Check that there are not obstructions preventing signal acquisition.

d. Make sure the receiver is compatible with the antenna.

e. Try a bypass coax from dome to receiver.
Antenna Seems to Find Signal but No Signal on Receiver

If the antenna appears to find signal and be pointed to the South but there is no signal on the receiver, complete the following steps to troubleshoot the issue:

a. Check information inputted during receiver setup to ensure that the receiver is configured for the antenna.

b. Check dipswitch settings to ensure that the RoadTrip or Carryout antenna is programmed for the correct programming provider.

c. Check for voltage at the LNB. Some RoadTrip antennas can locate a signal without receiving power from the receiver; however, after signal acquisition RoadTrip antennas must receive power from the receiver in order to power the LNB and continue to deliver signal.

d. Try a different receiver. Satellite receivers can be faulty, and a new receiver may resolve the issue. Make sure the receiver is receiving proper power, and if possible, plug in to connection with known good AC power. Also, check that the receiver has sufficient ventilation to allow for cooling; an overheated receiver may not function correctly until cooling down.

e. Make sure the receiver is compatible with RoadTrip antennas.

Troubleshooting – Wally Receiver

<table>
<thead>
<tr>
<th>On Screen</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Antenna Setup does not appear</td>
<td>• No communication between receiver and satellite dish</td>
<td>• Check wiring. Verify connection to Main port. Verify good coax.</td>
</tr>
<tr>
<td></td>
<td>• Receiver software not compatible</td>
<td>• Ensure a compatible DISH Solo HD receiver is being used. • Connect receiver to fixed/home satellite dish for software update.</td>
</tr>
<tr>
<td>Error Code 150, “All Satellites Not Found”</td>
<td>• Possible obstructions blocking satellite • Satellite coverage issues in extreme Northeast or Northwest</td>
<td>• Attempt to move the antenna from any blockages or obstructions. • Attempt a re-scan on the receiver.</td>
</tr>
<tr>
<td>Error Code 151, “No Satellites Found”</td>
<td>• Possible obstructions blocking satellite • Intermittent coax connection</td>
<td>• Attempt to move the antenna from any blockages or obstructions. • Re-check coax connections to make sure coax did not become loose during scan. • Attempt a re-scan on the receiver</td>
</tr>
</tbody>
</table>
## Troubleshooting – G2+ & G3

<table>
<thead>
<tr>
<th>Issue</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vin indicator unlit on power inserter</td>
<td>• No DC power into power inserter</td>
<td>• Ensure power adapter is plugged into outlet and that outlet is providing AC power&lt;br&gt;• Ensure power adapter is connected to power inserter</td>
</tr>
<tr>
<td>Receiver indicator unlit on power inserter</td>
<td>• No communication between receiver and power inserter</td>
<td>• Ensure 3’ coaxial cable between receiver and power inserter’s RECEIVER port is properly connected&lt;br&gt;• For DIRECTV users, ensure receiver is compatible and configured correctly. See page 3 for configuration instructions&lt;br&gt;• If cable is connected and receiver is properly configured, try different piece of RG6 coaxial cable</td>
</tr>
<tr>
<td>Receiver indicator faintly lit or flickering on power inserter</td>
<td>• Intermittent communication between receiver and power inserter</td>
<td>• Replace 3’ coaxial cable piece with a different piece RG6 coaxial cable</td>
</tr>
<tr>
<td>Antenna indicator unlit on power inserter</td>
<td>• No communication between power inserter and antenna</td>
<td>• Ensure included 25’ coaxial cable is being used and is properly connected between power inserter’s ANTENNA port and Carryout PRIMARY port&lt;br&gt;• Ensure power button on power inserter pushed in ON position&lt;br&gt;• Replace 25’ coaxial cable with different RG6 coaxial cable</td>
</tr>
<tr>
<td>Antenna indicator faintly lit or flickering on power inserter</td>
<td>• Intermittent communication between power inserter and antenna</td>
<td>• Ensure included 25’ cable is being used and is properly connected between power inserter ANTENNA port and Carryout PRIMARY port&lt;br&gt;• Replace 25’ coaxial cable with a different RG6 coaxial cable</td>
</tr>
<tr>
<td>The antenna continuously searches and eventually stops without ever acquiring any satellites.</td>
<td>• Possible obstructions are blocking signal from the satellite</td>
<td>• Check to see if the southern sky is clear. Trees, buildings, large signs, or an overpass can block the signal&lt;br&gt;• Rain, snow, or excessive dew on the dome can interrupt the signal. Brush any snow or dew off of the dome. If heavy rain or snowfall is blocking the signal, it may be necessary to wait until the weather clears.</td>
</tr>
<tr>
<td>The antenna appears to lock onto signal, but my receiver does not show a picture or signal reading</td>
<td>• Receiver improperly configured for the Carryout antenna</td>
<td>• Verify the switch settings are set correctly for the desired provider. See switch settings on page 49&lt;br&gt;• Reconfigure the receiver according to steps on page 54-59.</td>
</tr>
<tr>
<td>I have switched satellite service providers, and the antenna is no longer working properly</td>
<td>• Switches are not set for the correct provider</td>
<td>• Set the switches to the correct programming provider. See switch settings on page 49.</td>
</tr>
</tbody>
</table>

If a problem persists, contact Winegard Technical Services at help@winegard.com or 1-800-788-4417.
Upgrade & Replacement Kits

Model RT-S02T upgrade kit is available for the RoadTrip Mission antennas, which enables upgrading from a stationary to an in-motion antenna. Additionally, model RK-2000 Roof Mount Kit is available for the Pathway X1, Carryout G2 or G2+ antenna, and RK-4000 Roof Mount Kit for the Carryout G3 or DISH Playmaker; these kits include everything needed to convert the portable antenna to a roof-mounted antenna.

Kits available for the RoadTrip Mission antenna:
- RP40WDS, white dome / RP40BDS, black dome
- RP40WDT, in-motion white dome / RP40BDT, in-motion black dome
- CL-RT25, 25’ 12 power cord
- CL-RT50, 50’ 12 power cord
- RP-GM12, power pigtail

Kits available for the RoadTrip T4 antenna:
- RP-T4WD, white dome / RP-T4BD, black dome
- CL-GM25, power cable
- RP-G2PT, power pigtail

Kits available for the Carryout G2 antenna:
- RP-G2WD, white dome / RP-G2BD, black dome
- RP-G250, 50’ 12 VDC power cord
- RP-G2PT, power pigtail
- RK-2000 Roof Mount Kit

Kits available for the Carryout G2+ antenna:
- PI-GM60, power inserter, power supply and 36” flex coax cable
- RK-2000 Roof Mount Kit

Kits available for the Carryout G3 antenna:
- RK-4000 Roof Mount Kit

Kits available for the DISH Playmaker antenna:
- RK-4000 Roof Mount Kit

Crank-up Antennas

The final type of satellite system offered by Winegard is the crank-up satellite system. These systems use a crank and directional handle to allow the user to point the roof-top satellite from inside the RV. The elevation is determined by counting times it is cranked up or by using a Digital Magic Elevation Sensor. The azimuth is determined by a compass heading and using the directional handle.

The Digital Magic® elevation sensor is always recommended for crank-up satellite dishes. The sensor simplifies the search process and provides the user feedback of the current elevation angle to allow for finding the correct satellite.