

# WINEGARD®

## MODEL RS-1500

### OMNIDIRECTIONAL TV/FM ANTENNA

**NOTE:** Please read all instructions **before** beginning installation!

#### WARNING!

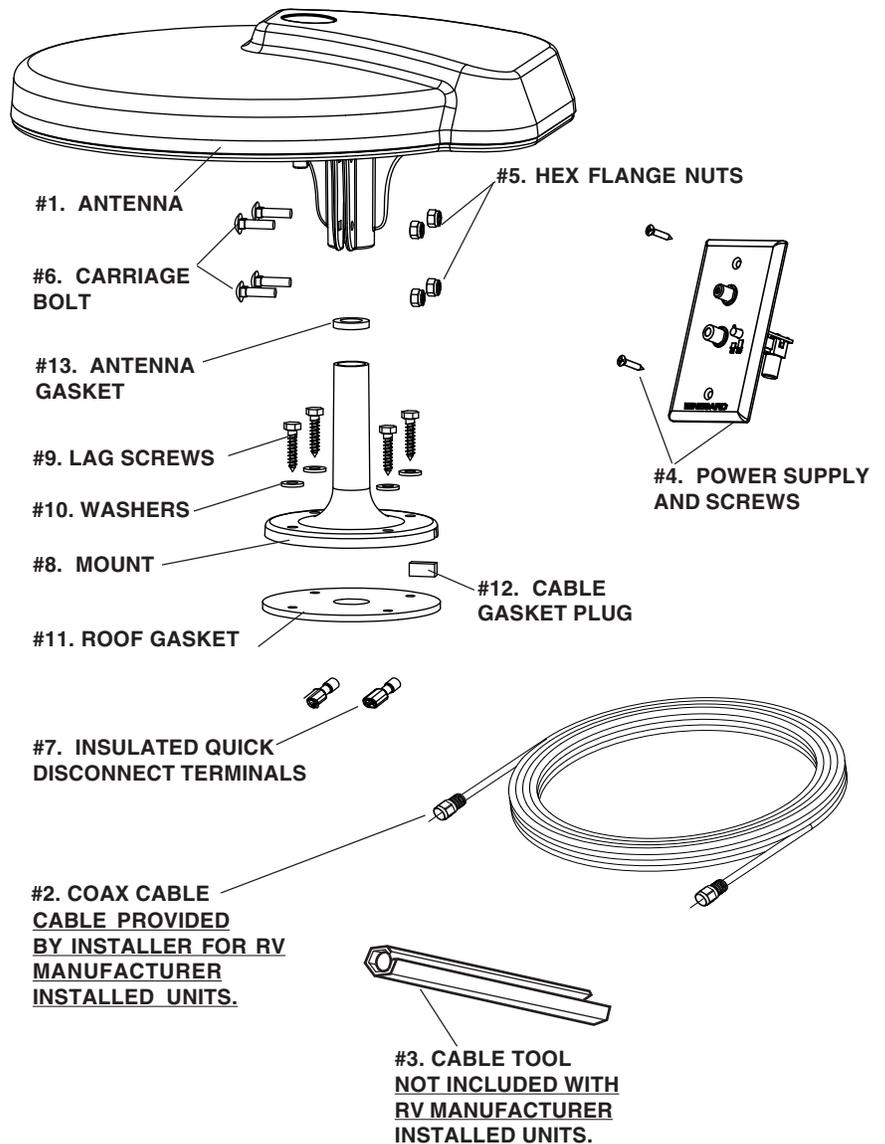
To prevent **FIRE** or **SHOCK HAZARD**, avoid exposure of power supply to moisture.

#### PARTS LIST

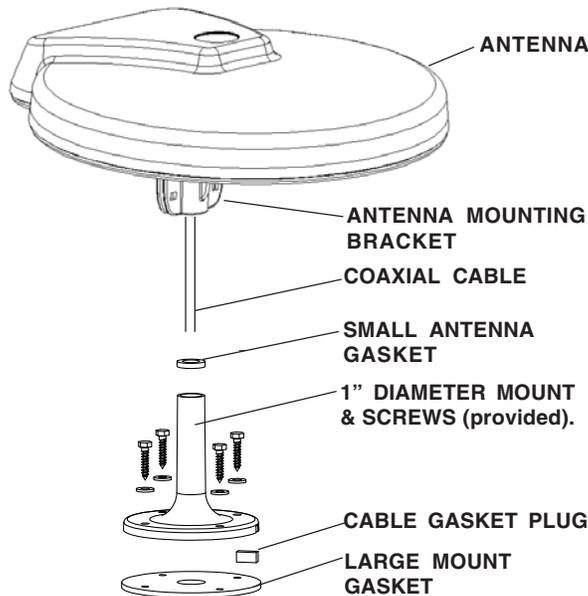
1. (1) Antenna
2. (1) 15' RG-6 Low Loss Coax Cable
3. (1) Cable Tool
4. (1) Power Supply RV-7542
5. (4) 1/4-20 Hex Flange Nuts
6. (4) 1/4-20 Carriage Bolts
7. (2) Insulated Quick-Disconnect Terminals
8. Mount
9. (4) Lag Screws 1/4" x 1-1/4"
10. (4) Washers 1/4"
11. (1) Roof Gasket
12. (1) Cable Gasket Plug
13. (1) Antenna Gasket

#### TOOLS NEEDED

- #2 Phillips screwdriver
- 7/16" wrench
- Medium slot screwdriver
- Cable tool
- Wire stripper



## The Parts:



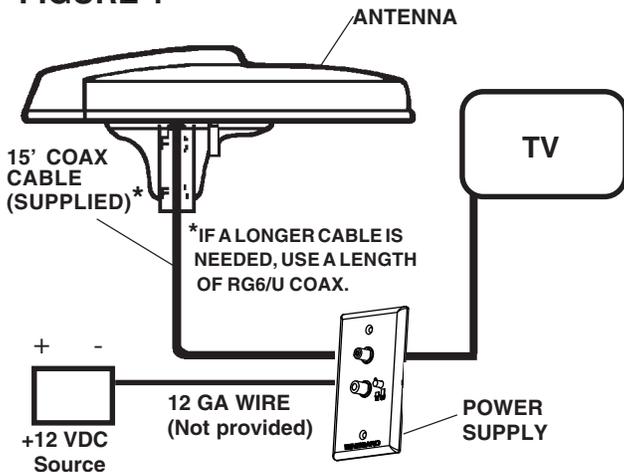
## BEFORE YOU BEGIN:

**Decide location of power supply before mounting your antenna.**

A wiring diagram, Figure 1, will help you determine the location for your antenna and power supply. **Antenna and power supply location determines where and how you run cables.**

**DO NOT** begin installation before carefully reading all installation instructions.

**FIGURE 1**

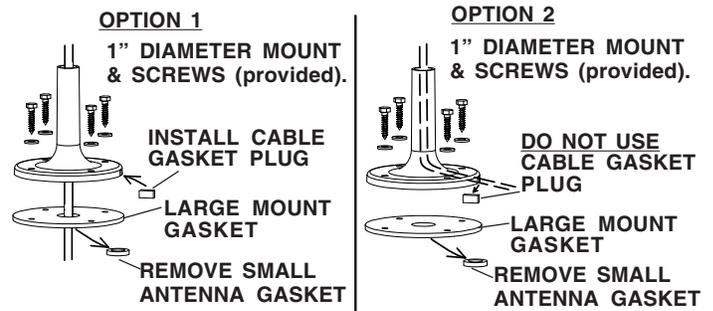


**BEFORE INSTALLING ANTENNA MOUNT, CHOOSE ONE OF THE FOLLOWING MOUNTING OPTIONS THAT BEST SUITS YOUR INSTALLATION NEEDS.**

**Start by removing the small antenna gasket from the center of the large mount gasket. Save it for later use. See either of two Option figures in next column.**

**OPTION 1:** Drill 5/8" hole through roof. Run cable through roof up center of large mount gasket and antenna mount. See Option 1. Install cable gasket plug in base. Route cable from antenna to wall plate.

**OPTION 2:** Run cable supplied down through mount base and out open slot in base of antenna mount. See Option 2 figure below. Finish routing cable to wall plate.



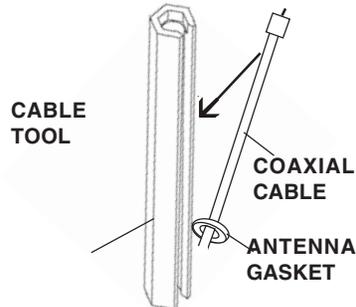
## ATTACHING MOUNT TO ROOF

Securely fasten antenna mount to roof making sure to place large mount gasket between mount and roof, using the 4 sets of washers and lag screws supplied. Seal around mount base and over screw heads with approved sealant for your roof. Contact the manufacturer of your RV.

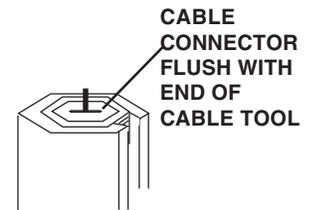
## CONNECTING COAX CABLE TO THE ANTENNA

1. Slide small antenna gasket (previously removed from the middle of the large mount gasket) onto coax.
2. Slide coax cable (with connector installed) into cable tool through the slot in the side of the tool, hex end up, Figure 2.

**FIGURE 2**



**FIGURE 3**



3. Push the cable up until the end of the connector is flush with the hex-shaped end of the cable tool. See Figure 3.
4. Insert the cable tool with cable attached into the mounting bracket on the underside of the antenna, aligning the end of the connector with the cable connection on the antenna. Push up until you feel a SLIGHT resistance.
5. Turn cable tool **to the right** until the connector is tight.
6. Remove cable tool.

## INSTALLING ANTENNA ON MOUNT

1. After cable connection is made, slide antenna gasket down coax to top of mount. Then slide antenna onto mount. GENTLY pull back any extra cable inside vehicle.
2. Fasten antenna to mount using 1/4-20 carriage bolts (#6) and hex flange nuts (#5). Tighten firmly to prevent antenna from turning on mount or mast.

## CONNECTING POWER SUPPLY

1. Select location for power supply. Run two coax cables (three if Set 2 jack is going to be used) (RG-59 type) between locations and install connectors on each end. **Mark cables so "cable input", "TV output" "Set 2" may be identified.** Antenna download and +12 VDC also needed at inside power supply location. See wiring diagram, Figures 5 and 6.

2. To mount the power supply, cut a hole in wall to fit the power supply. Connect 2 #12 wires between power supply and +12 VDC source and route download cable to this location.

### CAUTION: TURN OFF POWER SUPPLY WHEN CONNECTING CABLES/WIRES!

3. Connect +12 VDC to wall plate/power supply. Install terminals on wires from +12 VDC source as shown in Figure 7.

4. Crimp terminals with crimping tool, Figure 8. Push wires onto tabs on terminal board as shown in Figure 6. If in doubt as to the polarity of the wires, connect them temporarily to tabs on circuit board and press ON switch on front of wall plate; if light comes on polarity is correct.

5. Install connectors on download, Set 2 and Cable Input cables. Attach download cable to jack on wall plate/power supply marked Antenna as shown in Figures 5 and 6. Attach cable going to Set 2 outlet to jack on power supply marked SET 2. Attach cable coming from cable input to jack on power supply marked CABLE.

5. Mount power supply in wall with screws provided; attach TV set cable to jack on front of power supply/wall plate. Press ON switch on front of wall plate and check that light is on.

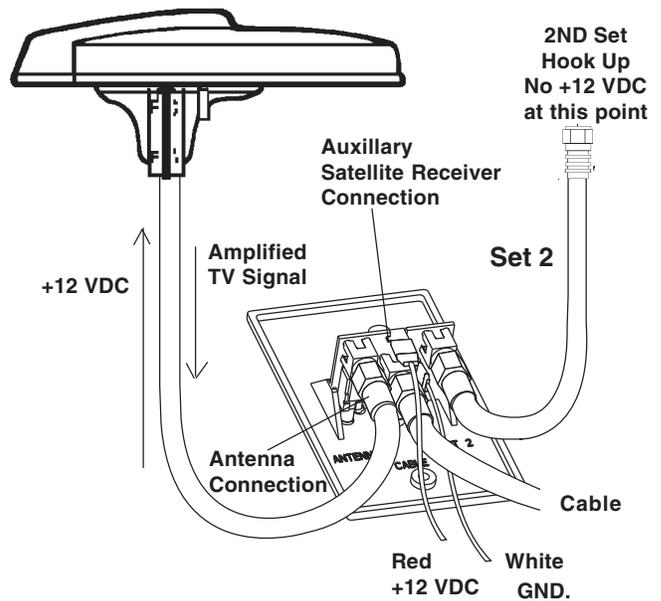
## CHECKING OPERATION OF POWER SUPPLY

1. Tune TV receiver to nearest station and rotate antenna for best picture and sound.

2. Press OFF switch on power supply. Picture on TV should be considerably worse with power off.

3. **This unit is equipped with a polyswitch** (current limiting device) which will shut down +12 VDC if there is a direct short between antenna and power supply. Red indicator light will not light. Once short is eliminated, device will reset itself.

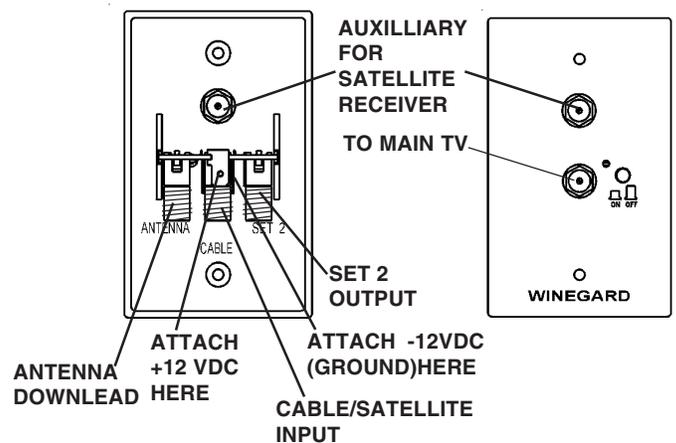
**FIGURE 5  
(Wiring diagram)**



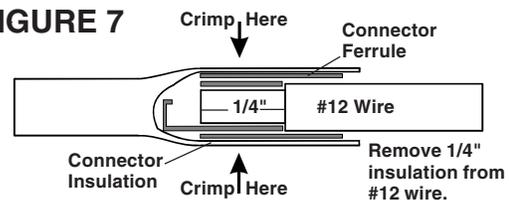
### IMPORTANT

*Positive and Negative leads from Battery must be connected to the control box terminals exactly as shown*

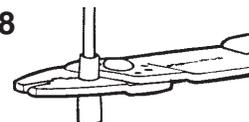
**FIGURE 6**



**FIGURE 7**



**FIGURE 8**



# WHAT TO DO WHEN YOUR RV/TV ANTENNA IS NOT WORKING PROPERLY

## WARNING

**DO NOT** install couplers, splitters, etc. between power supply and antenna. Installation of any item on the downlead **MAY CAUSE A SHORT IN THE SYSTEM.** The downlead supplies +12 VDC to preamp in antenna.

## HOW YOUR SYSTEM WORKS

Turning power supply on sends +12 VDC up cable to antenna. Voltage energizes transistors on amplifier in antenna head. TV signal comes back down cable to outlets.

## TO TEST SYSTEM

1. Make sure TV set is working properly.
2. Switch power supply ON and OFF to see if there is a difference in the picture quality while watching TV. If NO difference, use following steps.

## CAUTION!

The power supply should be turned OFF when connecting/disconnecting cables to power supply and antenna, turned ON when testing for voltage.

3. Disconnect cable from antenna and check for +12 VDC at Test Point #1. If there is +12 VDC, the power supply is OK and the antenna needs to be replaced.

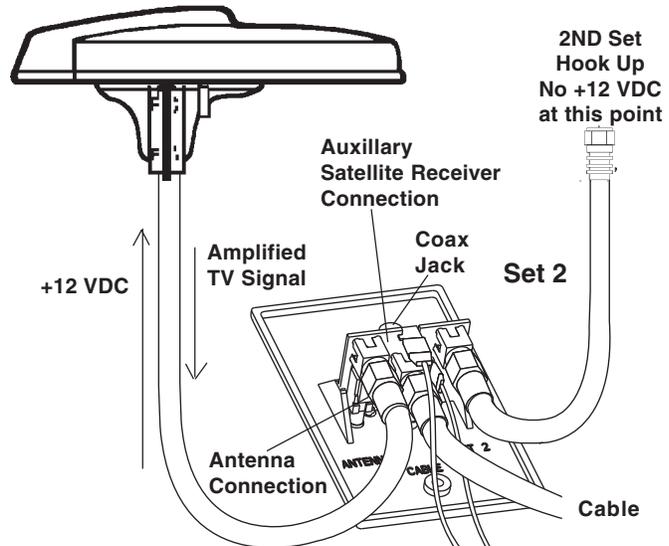
4. If there is NO +12 VDC at Test Point #1, reconnect cable to antenna. Remove power supply from wall and inspect for burned/broken parts. If there are ANY broken or burned parts, replace power supply.

5. Disconnect cable from antenna jack on power supply. Check for +12 VDC Test Point 2. If +12 VDC is present, there is a problem in the cable connecting the power supply to the antenna. Repair or replace cable.

**NOTE: Power supplies manufactured after October 1991 have a polyswitch. The polyswitch shuts the power supply off if a short in the cable is detected and will reset itself in approximately two minutes after the short is removed.**

6. If +12 VDC is not present at Test Point # 2, check green indicator light. If it is not ON, check the polarity of the red/white wires and +12 VDC source. If there is still no +12 VDC, replace power supply.

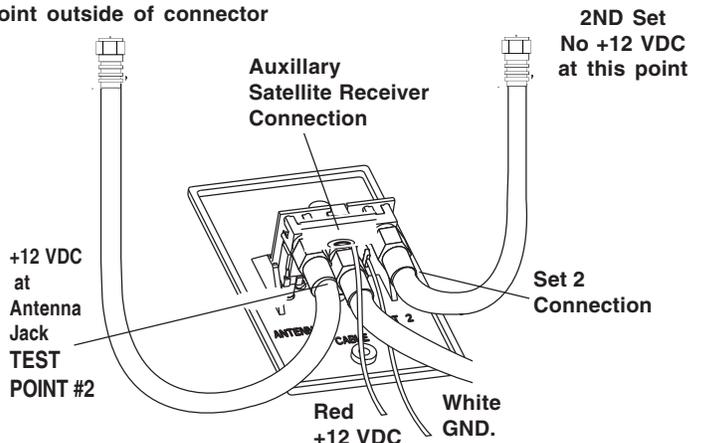
## HOW YOUR SYSTEM WORKS



## TO TEST SYSTEM

### TEST POINT #1

- +12 VDC at Antenna + Point center wire
- Point outside of connector



## WINEGARD MOBILE PRODUCTS LIMITED WARRANTY (2 YEARS PARTS; 1 YEAR LABOR)

Winegard Company warrants this product against defects in materials or workmanship for a period of two (2) years from the date of original purchase. During year one (1) of such warranty, Winegard Company will also pay authorized labor costs to an authorized Winegard dealer to repair or replace defective products. No warranty claim will be honored unless at the time the claim is made, Customer presents proof of purchase to an authorized Winegard dealer (to locate the nearest authorized Winegard dealer, contact Winegard Company, 3000 Kirkwood Street, Burlington, Iowa 52601, Telephone 800-288-8094 or visit [www.winegard.com](http://www.winegard.com)). Customer must provide proof of purchase with a dated sales receipt for the Winegard product to verify the product is under warranty. If the date of purchase cannot be verified, the warranty period shall be considered to begin thirty (30) days after the date of manufacture.

If a defect in material or workmanship is discovered, Customer may take the product to an authorized Winegard dealer for service. Customer must provide proof of purchase to verify the product is under warranty. If the product is brought to an authorized Winegard dealer for service prior to expiration of year one (1) of the warranty period and a defect in material or workmanship is verified by Winegard Technical Services, Winegard Company will cover the Winegard dealer's labor charges for warranty service. The Winegard dealer must contact Winegard Technical Services in advance for pre-approval of the service. Approval of the service is at the sole discretion of Winegard Company.

Alternatively, Customer may ship the product prepaid to Winegard Technical Services (located at 3111 Kirkwood Street, Burlington, Iowa 52601, Telephone 800-788-4417). Customer must return the product along with a brief description of the problem and provide Winegard Technical Services with Customer's name, address, and phone number. Customer must also provide proof of purchase to verify the product is under warranty. If the product is returned before the expiration of the warranty period, Winegard Company will (at its option) either repair or replace the product.

This Limited Warranty does not apply if the product has been damaged, deteriorates, malfunctions or fails from: improper installation, misuse, abuse, neglect, accident, tampering, modification of the product as originally manufactured by Winegard in any manner whatsoever, removing or defacing any serial number, usage not in accordance with product instructions or acts of nature such as damage caused by wind, lightning, ice or corrosive environments such as salt spray and acid rain. This Limited Warranty also does not apply if the product becomes unable to perform its intended function in any way as a result of the television signal provider making any changes in technology or service.

### RETURN AUTHORIZATION POLICY

A Return Material Authorization (RMA) is required prior to returning any product to Winegard Company or Winegard Warranty Services under this warranty policy. Please call our Technical Services Department at 800-788-4417 or send an e-mail to [warranty@winegard.com](mailto:warranty@winegard.com) to obtain the RMA number. Please furnish the date of purchase when requesting an RMA number. Enclose the product in a prepaid package and write the RMA number in large, clear letters on the outside of the package. To avoid confusion or misunderstanding, a shipment(s) without an RMA number(s) or an unauthorized return(s) will be refused and returned to Customer freight collect.

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ALL OTHER WARRANTIES WHETHER EXPRESS, IMPLIED OR STATUTORY INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY ARE LIMITED TO THE TWO YEAR PERIOD OF THIS WARRANTY.

In states that do not allow limitations on implied warranties, or the exclusion of incidental or consequential damages, the above limitations or exclusions do not apply. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion of limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives Customer specific legal rights. Customer may also have other rights that may vary from state to state.

**SATELLITE RECEIVER WARRANTY**  
See manufacturer's limited warranty policy.

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