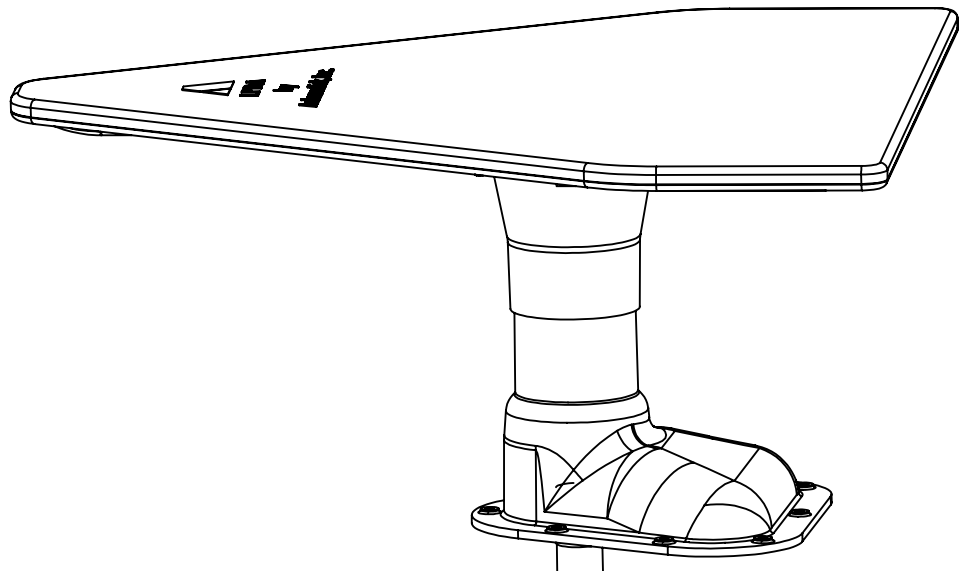


# OWNER'S MANUAL

**SIGNAL COMMANDER<sup>®</sup>**



**THIS MANUAL CONTAINS**

**INSTRUCTIONS FOR: LPDA 100**

- INSTALLATION
- OPERATION
- TROUBLESHOOTING
- EXPLODED PARTS DIAGRAM
- WARRANTY

**AntennaTek, Inc.**

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## SECTION I INSTALLATION INSTRUCTIONS

### INSTALLATION KIT CONTENTS:

Qty.	Description
1	Amplified Head Assembly
1	Base Assembly
1	15' Coaxial Cable
1	6' Coaxial Cable
1	Coaxial Coupling
1	75 Ohm Wall Mount Power Supply
1	Ceiling Plate
1	Rotation Handle
1	Knob
8	#8x1" Pan Head Sheet Metal Screws
4	#8X3/4" Pan Head Screws
1	#6x3/4" Set Screw

### TOOLS AND SUPPLIES REQUIRED:

#### Mechanical Installation

- Electric Drill (1/2" capacity)
- Drill bits: 1/16" and 1/2" Dia.
- 1 1/4" Diameter Hole Saw
- Phillips screwdriver
- Extension Cord
- Tape Measure
- Hacksaw
- Pliers or Vise Grips

#### Electrical Installation

- Volt Meter(DC)
- Sabre Saw
- Crimping tool

#### Supplies

- Non-hardening Caulking Compound or Silicon
- Electrical Tape
- Electrical Wire 14 AWG or Heavier
- Electrical Box if not Already Installed

## 1. Installation Planning

### A. Pre-wired Vehicles

Follow the instructions in this manual in conjunction with the RV manufacture's recommendations to locate and install the Signal Commander Antenna and power supply.

### B. All other Vehicles

Location of the antenna must allow antenna head to point towards the front of the vehicle in the travel position, and must clear all roof mounted equipment (21" diameter required). The roof should not be more than 5.0" thick.

The inside ceiling must be clear of obstructions to ceiling plate and handle. For the cleanest installation, it is recommended that the coaxial cable enter through the roof and be hidden inside a closet. The wall of the closet can be used to mount the power supply.

Locating the antenna close to the television receiver and the 12 Volt DC power source will simplify the installation. Power supplies should be flush mounted in standard electrical boxes. Assure that the 12 Volt source is limited by a 7.5A fuse maximum.

Power supplies should not be connected to existing circuits with fans or motors as this may cause interference to the television, damage the antenna amplifier, and void the warranty.

## 2. Installation

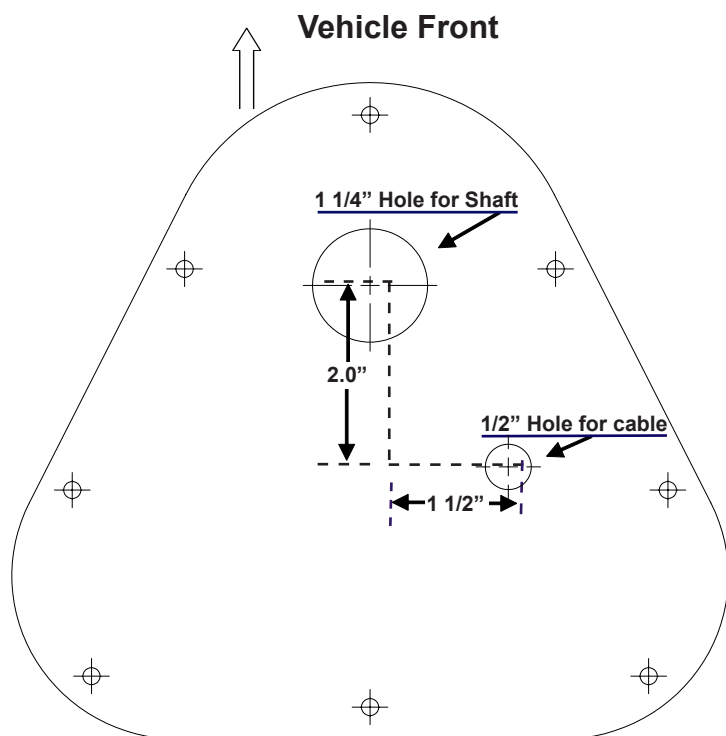
### WARNING!

#### Electricity Kills!

**Power lines may be overhead.  
Care must be taken when installing the antenna.**

**Before drilling, care must be taken not to damage any wiring that may be located between the vehicle roof and ceiling.**

Step 1: Select the position where the antenna will be installed. Using a 1-1/4" diameter hole saw, cut a hole through the roof and ceiling for the center shaft. Drill one 1/2" diameter hole through the roof only for the coaxial cable.



Step 2: Route the coaxial cable through the Base Assembly. Caulk the bottom of the Base Assembly with a liberal amount of non-hardening sealing compound, then position and attach it to the roof with eight #8x1" pan head sheet metal screws. Seal the edges of the Base Assembly and the top of the screws with sealing compound.

Step 3: Connect the coaxial cable to the antenna head and tighten (**hand tighten only**). Align the Head Assembly to the Base Assembly and gently push them together. Rotate the Head Assembly clockwise to lock it in place. Use the # 6 x 3/4" set screw to secure it to the Base Assembly.

**Warning: If the set screw is not installed properly the antenna will come loose.**

Step 4: Measure the thickness of the roof. Using the table and illustrations on page 4, cut the elevation shaft and rotation handle to the correct length for the vehicle's roof. The Rotation Handle should engage 1.00"

Step 5: Feed the cable through the 1/2" hole into the inside of the vehicle. Make sure there is adequate cable available for free rotation of the antenna. Route the cable to the primary power supply location.

Step 6: Position the ceiling plate over the rotation handle with pointers aligned and slide assembly over shaft in ceiling. Mark hole positions and remove rotation handle. Mount ceiling plate in place using four #8x3/4" long pan head screws.

Step 7: Assemble rotation handle, spring, washer and Knob (See illustration). Slide all parts over shaft and tighten the set screw on the Knob.

Step 8: Rotate the antenna to check for proper operation (See Section II - Operating Instructions).

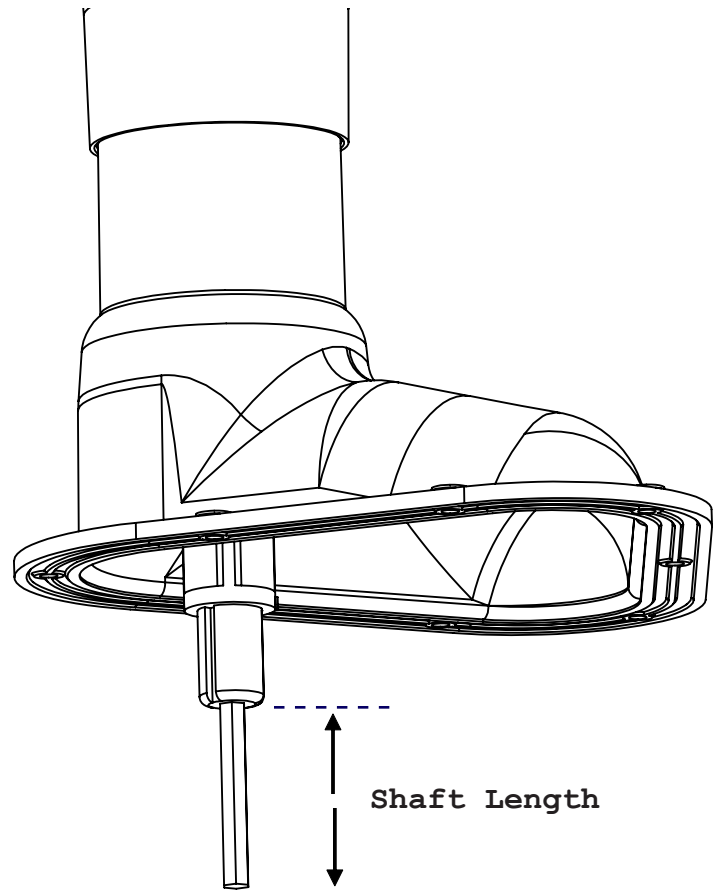
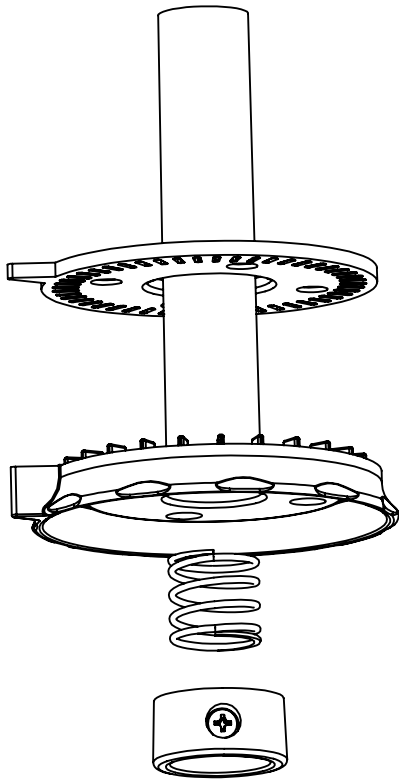
Step 9: The power supply is designed for installation in any standard electrical box. To mount the power supply cut a hole in the wall and install the electrical box. Place the power supply switch in the "OFF" position. Run two wires # 14 AWG or heavier from a 12 Volt DC power source to the rear of the power supply. Assure that the 12 Volt DC power source current is limited to 7.5A at 12Volt DC.

Crimp the quick disconnects onto the wires and push wires onto tabs on the circuit board (see power supply illustration for correct polarity). Place switch in the "ON" position and check the red LED. If the LED illuminates the polarity is correct. Place switch in the "OFF" position to avoid any short circuits while making cable connections

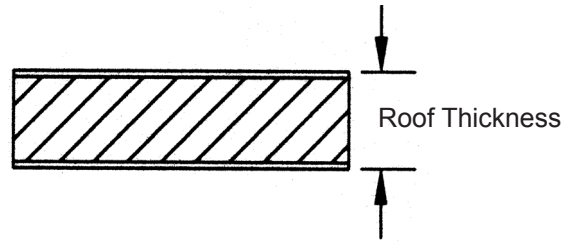
**CAUTION:**     **The red wire is positive (+)**  
                  **The white wire is negative (-)**

Step 10: Connect the coaxial cable from the antenna to the connector marked "Antenna" on the rear of the power supply.

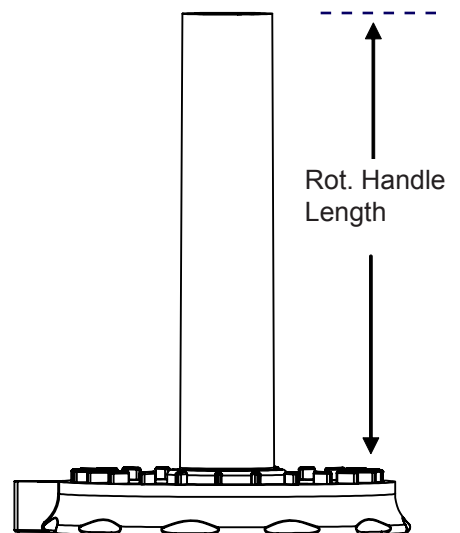
Step 11: Place the power supply inside the electrical box and mount flash with 2 # 6x3/4" flat head screws. Attach the coaxial cable to the front of the power supply and connect to the television set. Place Switch in the ON position.



Shaft Length

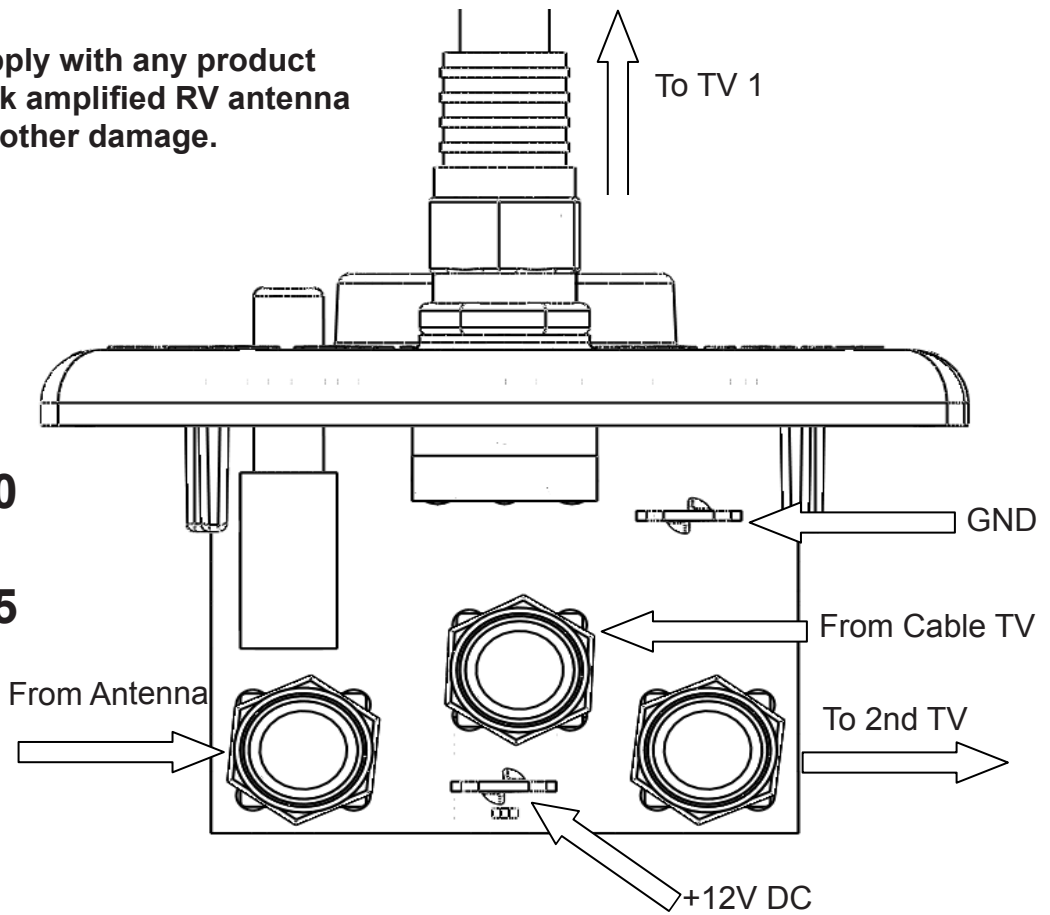


Roof Thickness	Shaft Length	Rot. Handle Length
1" Min.	7/8"	1/2"
1 1/2"	1 3/8"	1"
2"	1 7/8"	1 1/2"
2 1/2"	2 3/8"	2"
3"	2 7/8"	2 1/2"
3 1/2"	3 3/8"	3"
4"	3 7/8"	3 1/2"
4 1/2"	4 3/8"	4"
5"	4 7/8" Max	NO CHANGE



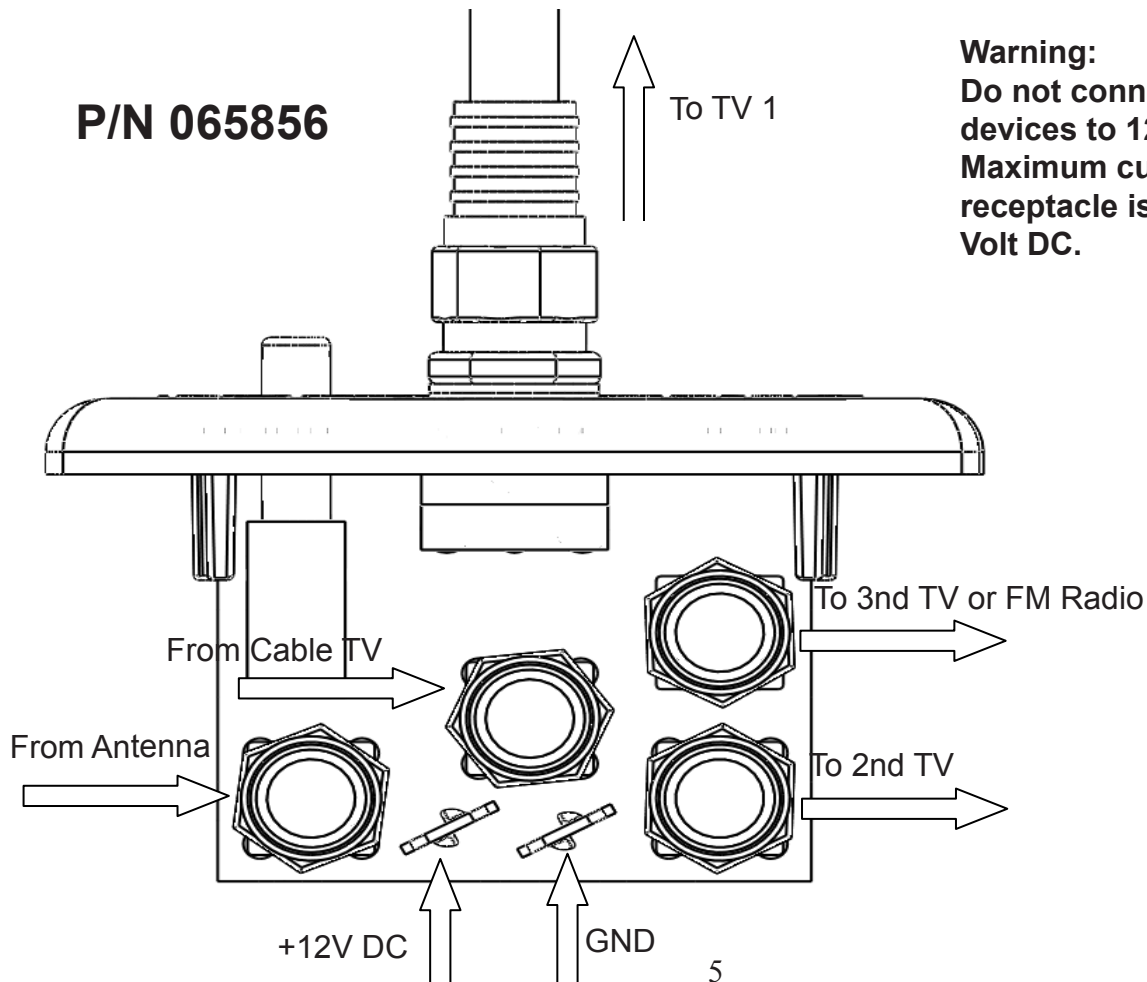
**Warning:**  
 Use of this power supply with any product other than AntennaTek amplified RV antenna could result in fire or other damage.

**P/N 065840  
 through  
 P/N 065855**



**P/N 065856**

**Warning:**  
 Do not connect high current devices to 12 Volt receptacle. Maximum current rating of this receptacle is: 7.5 Amps at 12 Volt DC.



## SECTION II OPERATING INSTRUCTIONS

### 1. To Rotate Antenna

A : Pull the rotation handle down to disengage gear from ceiling plate, rotate the antenna to align with the stations. The pointer on the Rotation Handle indicates the Antenna direction.

B: Switch ON the main power supply. Note red LED indicator illuminated. This indicates amplified reception.

C: Switch ON the television, set the input of the TV to antenna then scan for channels. If a desired channel was not found, pull the rotation handle down to disengage gear from ceiling plate, rotate the antenna 90 degrees and scan for channels.

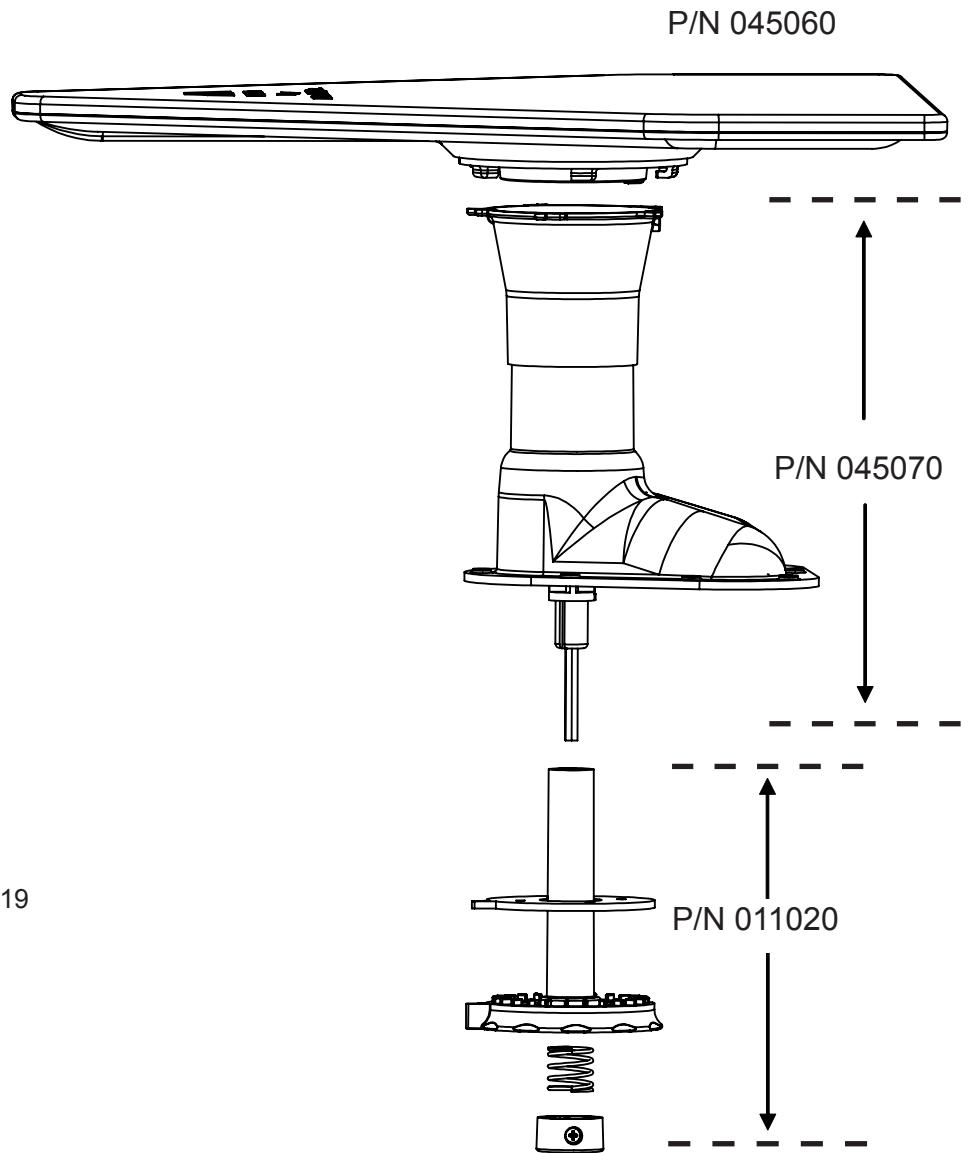
NOTE: If external cable TV is connected to the vehicle from an RV park, turning your power supply OFF will route the cable TV signal to all attached TV's.

## SECTION III TROUBLESHOOTING GUIDE

- Antenna will not rotate	- Rotation handle engaged to ceiling plate - Obstruction - Coax cable too tight	- Pull down to disengage from ceiling plate. - Remove obstruction - Adjust cable
- LED on power supply does not light up	- Switch off - No DC power - Coax cable shorted	- Turn switch "ON" - Check 12 V supply & polarity - Replace coaxial cable
- No Picture	- Television - Wiring - Antenna cables  - Antenna or Vehicle location	- Tune in or change station - See installation steps 12 - 15  - Coax cable going to antenna head should have 12V DC, between center conductor and outside shield. LED on Head Assembly should be "ON"  - Rotate antenna, scan for channels or move vehicle

**Note: Signals may be interfered with if the antenna is too close to obstructions such as buildings or trees.**

**SECTION IV EXPLODED PARTS DIAGRAM**



**Distributors:**

**Australia / New Zealand**

Dometic Australia  
1 800 21 21 21  
sales@dometic.com.au  
web: www.dometic.com.au

**Canada**

Danzy Distributors  
(877) 326-9966

**USA**

Arrow (800) 228-1001  
Keller Marine (570) 374-8169  
Pantera (800) 456-0123  
Key-Stone Automotive (800) 289-0919  
AntennaTek (303) 772-9591

## SECTION V WARRANTY

Know your rights and responsibilities before operating this product! Please read the "limited warranty" provided below carefully. Improper operation and maintenance, abuse, neglect, etc. will void your warranty.

### AntennaTek, Inc. LIMITED WARRANTY

#### 1. Duration:

One year (365 days) from date of purchase.

#### 2. Who gives the warranty?

AntennaTek, Inc. (the "Company")

#### 3. Who receives this warranty?

The original purchaser (the "Purchaser"), other than for the purpose of resale, of the Signal Commander Antenna.

#### 4. What is covered under this warranty?

A. Repair or replacement at no charge, of parts found by the Company to be defective, provided that the Company receives notice of the defect within three hundred sixty five (365) days from the date of original purchase.

B. Payment of reasonable freight charges incurred to repair or replace the defective part, as pre-authorized by the Company via an "Authorization to Return" form. Expedited shipment or shipment other than that offered by the Company is available as an optional, customer paid service.

#### 5. What is not covered under this warranty?

**A. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM DATE OF ORIGINAL PURCHASE OF THE SIGNAL COMMANDER® ANTENNA. LIABILITY FOR INDIRECT OR CONSEQUENTIAL DAMAGES**

#### **FOR ANY INCIDENTAL EXPENSES, UNDER ANY AND ALL WARRANTIES IS EXCLUDED.**

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

B. Any failure that results from accident, purchasers' abuse, neglect, improper maintenance, or failure to operate and use the product in accordance with the instructions provided in the owner's manual supplied with the product.

C. Any labor charges, travel time, or mileage incurred as a result of installing the replacement part.

D. Any failure that results from improper installation of the product.

E. Any component not sold or manufactured by the company.

#### **6. Responsibilities of purchaser under this warranty.**

A. Provide proof of purchase to qualify for credits under provisions of coverage.

B. Promptly notify the seller, or alternatively the Company, of any claim hereunder.

C. Obtain Authorization to Return from the Company and return the product to the Company:  
AntennaTek, Inc., 425 S. Bowen St., #4, Longmont, Colorado 80501.

D. Use reasonable care in the maintenance, operation, use and storage of the product in accordance with the instructions contained in the owner's manual.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.