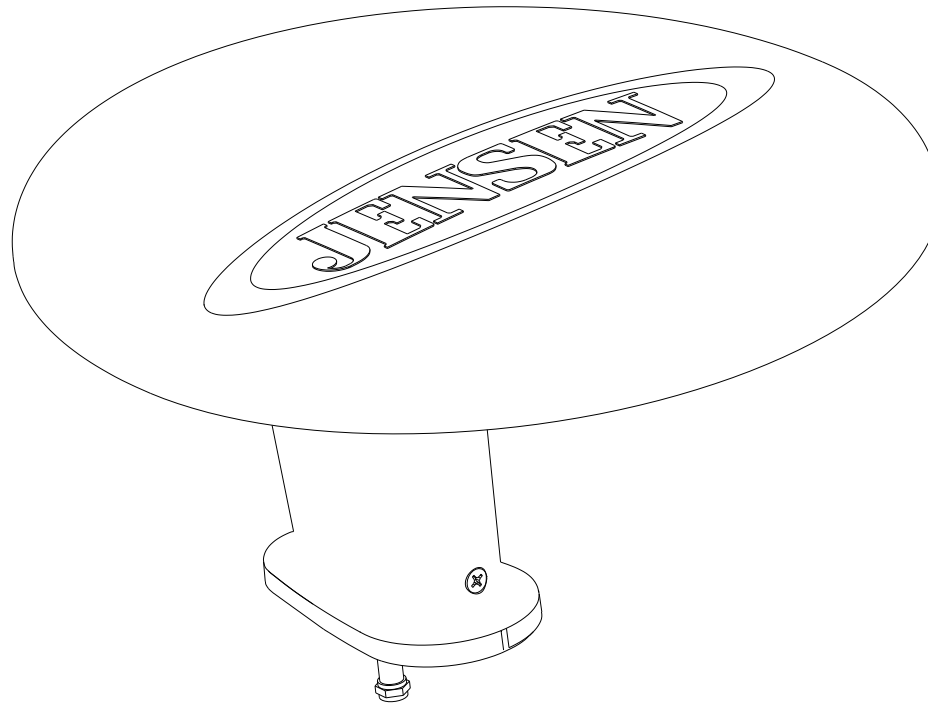




DESIGNED TO MOVE [YOU]™

ANHD20

MOBILE OMNI-DIRECTIONAL WIDEBAND ANTENNA  
Installation and Operation Manual



***PATENT PENDING***

# INTRODUCTION

Thank you for choosing a Jensen. We've tried to make the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all of the features of your new Jensen antenna for maximum enjoyment.

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# PRECAUTIONS

- **Proper Power Supply**  
This product is designed to operate with a 12 volt DC, negative ground power system
- **Use Authorized Service Centers**  
Do not attempt to disassemble or adjust this precision product. Contact a professional for service
- **Do not install couplers or splitters between the wall plate and antenna**  
Installation of any item on this cable lead may cause a short. This cable provides power to the Antenna preamp.
- **Power Supply should be disconnected during installation**  
Connect all coax cable connections before connecting +12VDC wire to the wall plate. The switch should be in the OFF position when connecting/disconnecting cables.
- **All coaxial cable used should be RG-6U for optimal performance**
- **Painting the Antenna is not recommended and may affect performance**
- **Do not use solvents to clean antenna. Use only mild soap and water.**

# PREPARATION

Please read all instructions before beginning the installation.

## Tools and Supplies

- Drill or Battery Driver with a #2 Phillips Bit
- ½" Drill Bit
- Caulking Gun
- Tube of Approved Exterior Roof Caulk
- RG-6U Coaxial Cable
- 16AWG Power & Ground Wire

# ANTENNA INSTALLATION

1. Remove all packaging contents from shipping box.
2. Locate the Antenna Housing
3. Determine a suitable location to mount the antenna. This location should allow for approximately 24" of clearance around the antenna. Avoid close proximity to other roof mounted objects (AC, Vents, & Roof Edges). See Figure 1 below.

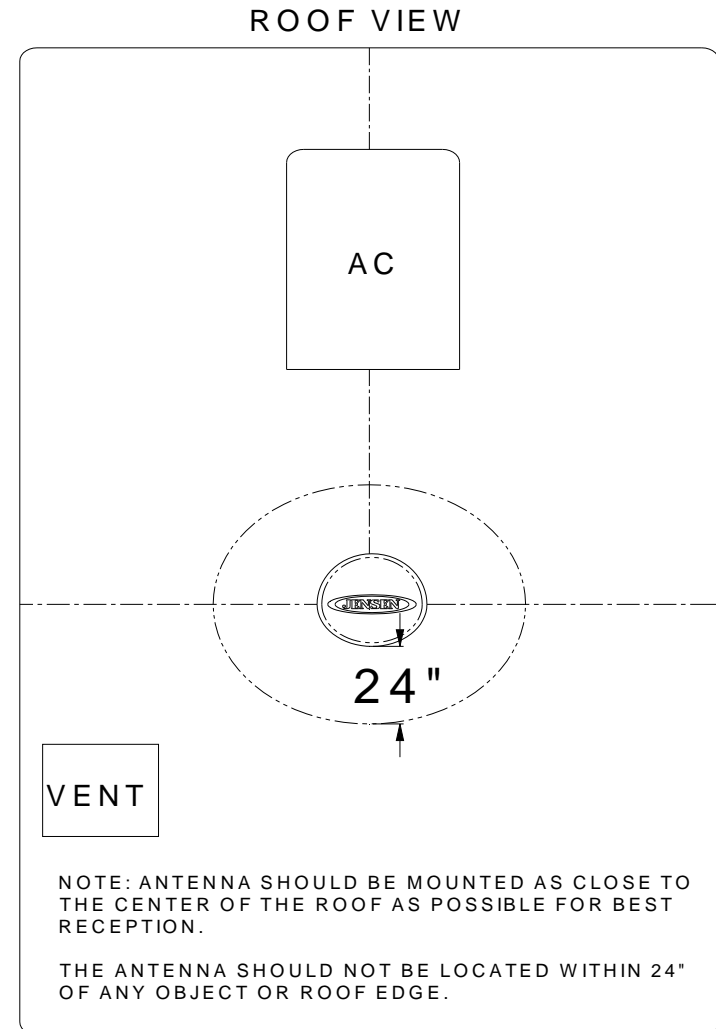


FIGURE 1

# ANTENNA INSTALLATION

- Remove metal base from plastic housing by removing the lock screw and sliding the base away from the plastic stalk. Mark hole locations on roof. Drill 5/8" hole for the coax cable. Pre-drill the 3 mounting screws holes with a 1/8" bit. Route RG6 Coax from wall plate through hole. See Figures 2, 3, & 4.

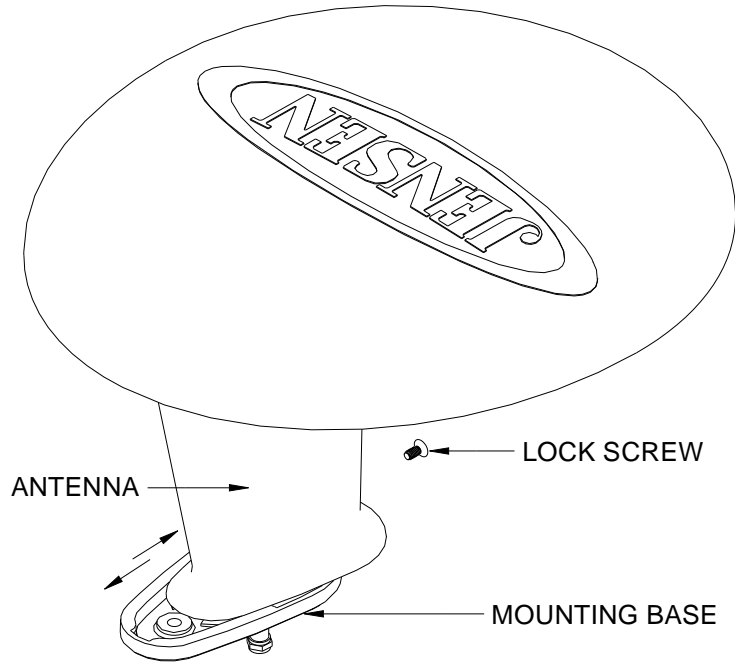


FIGURE 2

- Apply approved caulking compound around all holes. Place base over holes and caulking. Secure base using the included 3 screws. Apply approved caulking compound to screw heads and fill 1/2" hole with caulking compound. See Figure 4
- Connect the 2 coax cables ensuring the fitting is snug (*Do Not Over tighten*). Reinstall the plastic housing onto the base. Reinstall the lock screw.
- Additional caulking compound may be applied to the outside seam of the base. Please note there is a moisture weep hole at the rear of the base. If proper sealing techniques are used (as described in Step 5) you should not need to add additional caulking around the base.

NOTE: The Caulking compound used should be approved for the type of vehicle and environment. Check OEM recommendations for your vehicle. Material should be a non-hardening type such as Butyl caulking.

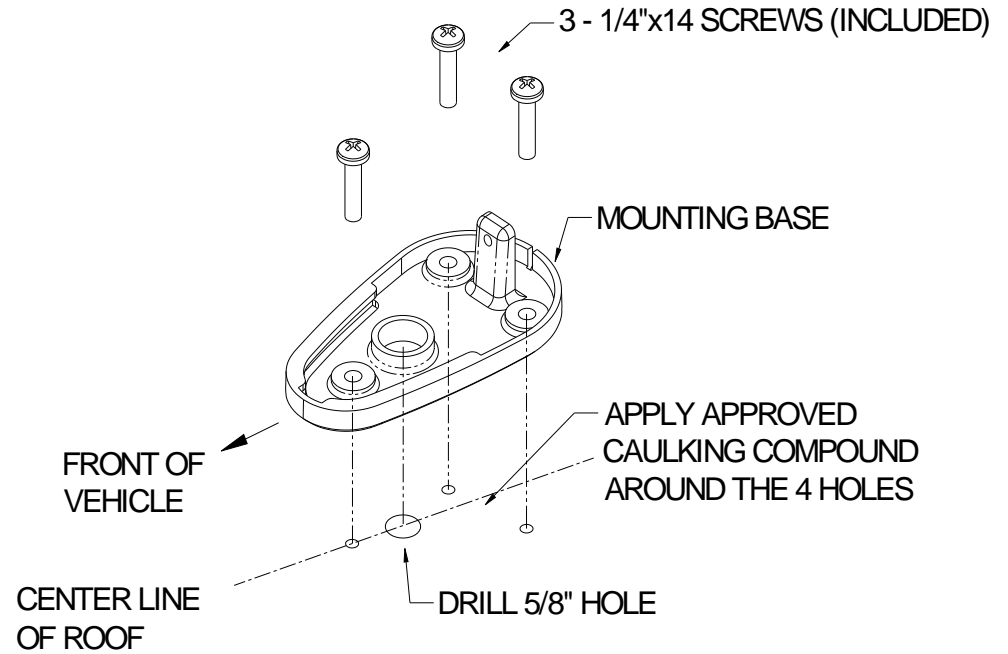


FIGURE 3

APPLY APPROVED CAULKING COMPOUND 4 PLACES

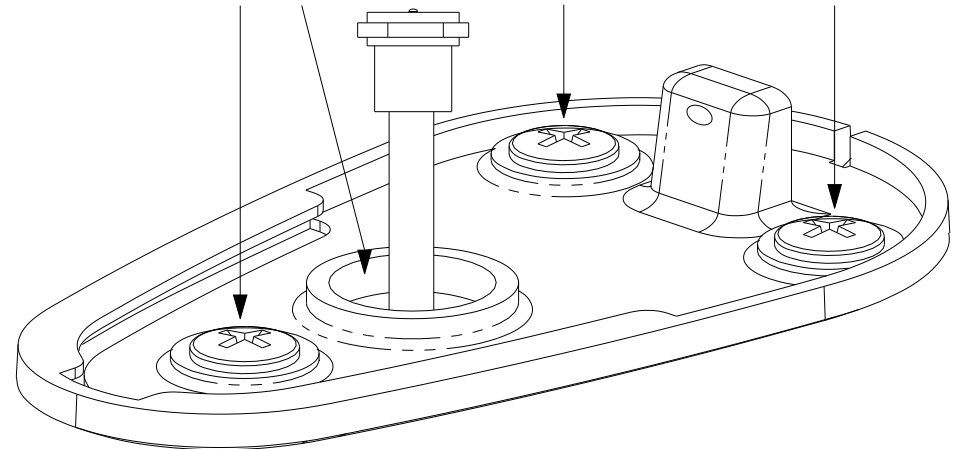


FIGURE 4

# WALL PLATE INSTALLATION

1. The wall plate/power supply assembly may be mounted in most electrical outlet/switch boxes. The plate can also be mounted without an electrical box. This mounting method requires a hole 2.75" x 2.0". Route 2 16AWG wires to this hole from the 12VDC source. Also route all coax cables to this hole. See Figure 5.
2. Connect all coax cables to the appropriate wall plate pigtail. Each pigtail has a label for identification. Connect the cable from the roof antenna to the "ANTENNA IN". Connect the "TV2 OUT" to TV input. "RADIO OUT" goes to the input of the AM/FM radio. "CABLE IN" connects to the Park Cable Input. See Figure 6. (*Do Not Over tighten*)
3. After connecting all coax cables, connect +12VDC wire to the + male spade terminal on the circuit board (marked with a red dot) using a 1/4" Insulated Female Spade Terminal. Then connect the ground wire (marked with a black dot) using the same type terminal. See Figure 6.
6. Install the wall plate using a two #6 Flat Head screws.
7. Connect main TV to the TV1 output on the front of the wall plate.

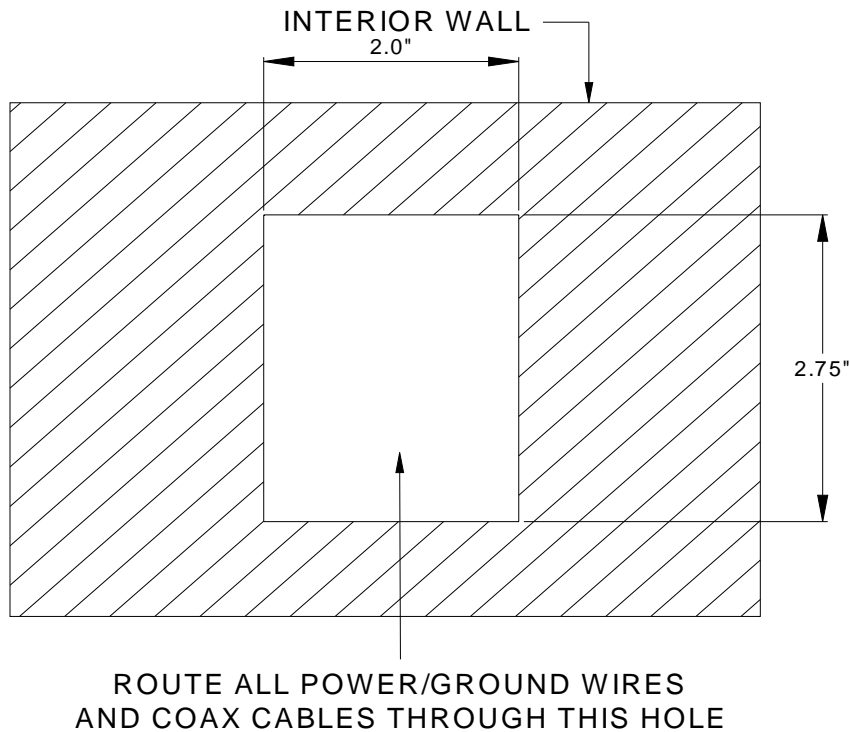


FIGURE 5

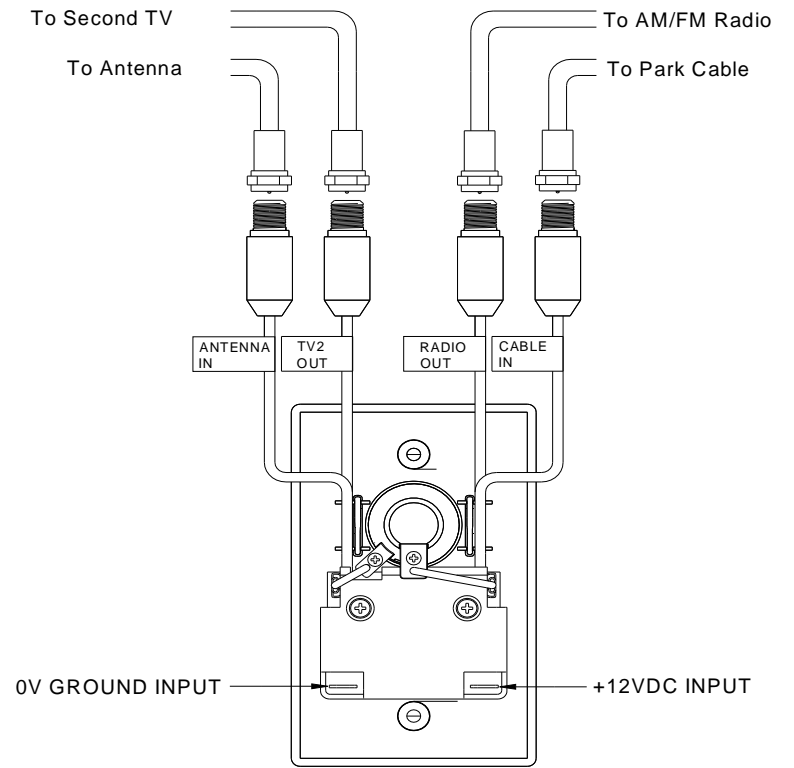


FIGURE 6

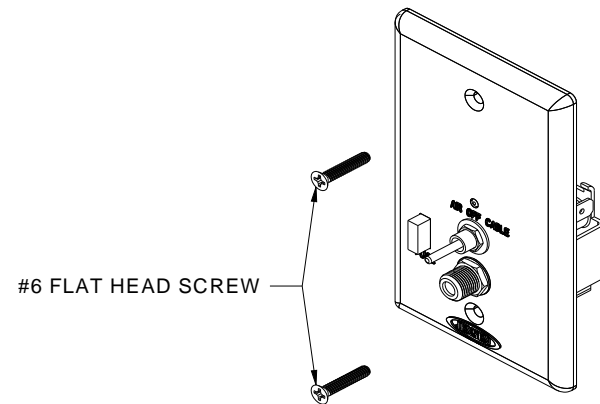


FIGURE 7

**\* Recommendation of RG-6U cable type with a maximum length of 10 feet between Plate and Antenna.**

# OPERATION

1. Select the desired source by moving the switch located on the front of the wall plate. Select either "AIR" or "CABLE". AIR will activate the roof mounted antenna which will provide over-the-air TV and AM/FM reception. Selecting CABLE will enable you to receive signals from your external Cable Service provider and AM/FM reception. Selecting "OFF" will disable the system completely and is recommending when the vehicle is not in use or storage. Note the Red LED indicator will be On in the "AIR" & "CABLE" positions. See Figures 8 & 9.
2. Next turn on all TV's and access your on screen menu. (refer to your TV owner's manual). If you selected "AIR" ensure that TV tuner is set to receive over-the-air ATSC/NTSC signals. Activate the TV's auto programming sequence to scan / store available channels.
3. If you selected "CABLE", then set your TV tuner to cable and activate the TV's auto programming sequence to scan / store available channels.
4. The 7.5 Amp DC Receptacle is designed to power DC TV's or other small amperage DC devices. The 7.5A fuse located on the front of the wall plate protects this receptacle and the power to the roof antenna. If this fuse blows then the antenna will not work. Do not connect high current devices.
5. Other wall plates do not have the DC receptacle and are fused at 1 Amp to protect the electronics.

**\*Warning: Replace Fuse with the same Fuse type & current rating. Failure to do so may cause damage and void warranty.**

# SPECIFICATIONS

|                            |   |
|----------------------------|---|
| POWER SUPPLY.....          | 9 – 16 VDC negative ground at 85mA            |
| IMPEDANCE.....             | 75Ω   |
| FREQUENCY RANGE.....       | 40 – 850MHz, 500 – 1700KHz (AM, FM, VHF, UHF) |
| E-PLANE DIRECTIVITY.....   | Omni-Directional                              |
| GAIN.....                  | 15dB (typical)                                |
| GAIN FLATNESS.....         | 0.5dB (typical)                               |
| OIP3.....                  | 80dBmV (typical)                              |
| OPERATING TEMPERATURE..... | -40C ~ 85C (-40F~ 185F)                       |
| OVERALL DIMENSIONS.....    | .8"(H) x 12.75"(W) x 14"(D)                   |

*Specifications subject to change without notice.*

This device complies with Part 15 of the FCC Rules. Operation is subject to the following 2 conditions:  
 (1) This device may not cause harmful interference.  
 (2) This device must accept any interference received, including interference that may cause undesired operation.

*NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate this equipment.*

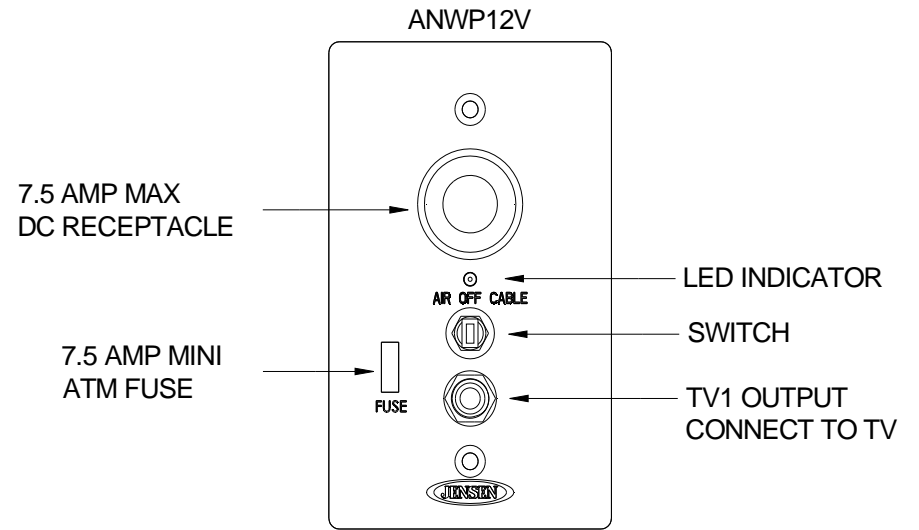


FIGURE 8

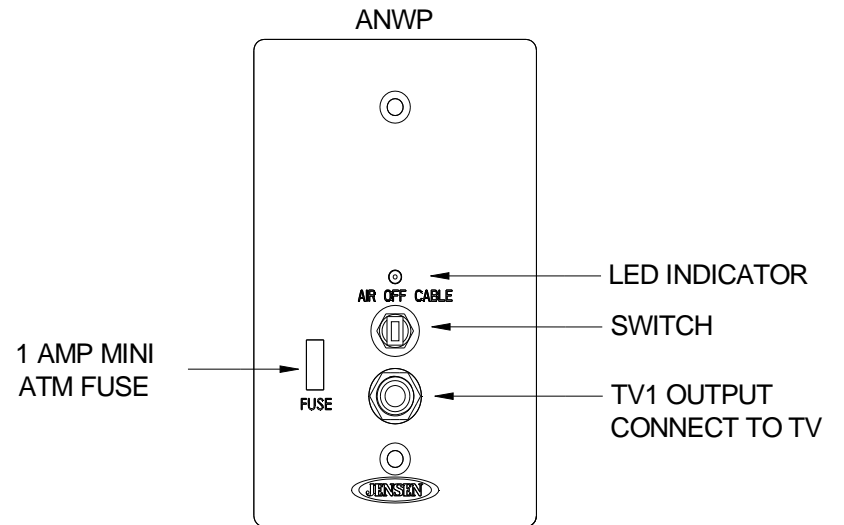
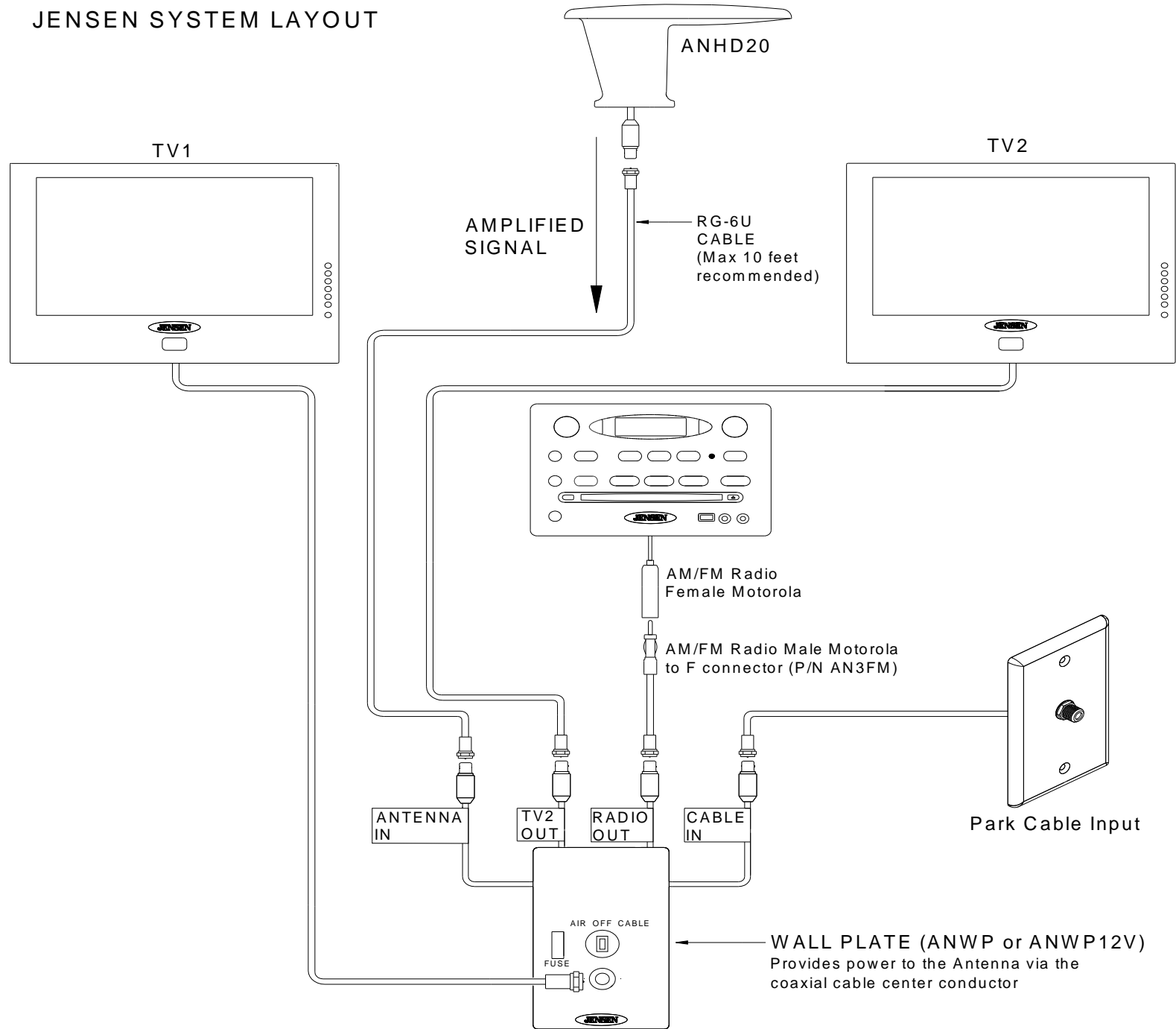


FIGURE 9

# JENSEN SYSTEM LAYOUT



## TROUBLESHOOTING

| Problem                  | Cause                               | Corrective Action  |
|--------------------------|-------------------------------------|--|
| No TV reception on AIR   | No 12VDC power at PCB               | Check power and ground connections with test light               |
|                          | Blown Fuse                          | Check fuse in wall plate and main supply                         |
|                          | Bad coax connection                 | Check to ensure cables are connected properly at TV & wall plate |
|                          | Wall Plate Switch in wrong position | Move switch to AIR position                                      |
|                          | TV tuner not set to AIR             | Check TV tuner status in on screen menu                          |
| LED Indicator is Off     | No 12VDC power at PCB               | Check power and ground connections with test light               |
|                          | Blown Fuse                          | Check fuse in wall plate and main supply                         |
|                          | Shorted coax connection             | Check Antenna coax connection for short                          |
|                          | Switch in wrong position            | Check switch position  |
| No TV reception on Cable | No 12VDC power at PCB               | Check power and ground connections with test light               |
|                          | Blown Fuse                          | Check fuse in wall plate and main supply                         |
|                          | Bad coax connection                 | Check to ensure cables are connected properly at TV & wall plate |
|                          | Wall Plate Switch in wrong position | Move switch to CABLE position                                    |
|                          | TV tuner not set to CABLE           | Check TV tuner status in on screen menu                          |
| No power at DC socket    | No 12VDC power at PCB               | Check power and ground connections with test light               |
|                          | Blown Fuse                          | Check fuse in wall plate and main supply                         |

For technical assistance, please visit [www.asaelectronics.com](http://www.asaelectronics.com)



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