



1.866.232.ROVER(7683)

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Before installing Rover AMP-800AMP Amplifier, please read entire contents of this manual.

RoverAMP-800AMP Installation Instructions

Section # 1 - Parts List

Item	Qty	Description
1	1	RoverAMP-800 MHz Amplifier
2	1	RoverAMP external antenna with mounting hardware
3	1	RoverAMPmagnetic mount interior antenna with 4 meters of low loss antenna cable *
4	1	RoverAMP120 VAC power supply
5	1	RoverAMP4 meter low loss antenna cable with "N" connectors
6	1	RoverAMPMale N Connector X Male N Connector

* Note: Minimum 6" square foot steel ground plane is required and is not furnished.



Section # 2 - Required Tools and Materials

Item	Description
1	Electric drill (as required for amplifier mounting holes, and external antenna mounting)
2	Phillips Screw drivers, 8mm and 10mm wrenches
3	Qty 8 fasteners (length and type as required for amplifier and external antenna mounting)
4	Cables ties for clamping the external and interior antenna cables to rigid structure

Section # 3 - WARNINGS!

- ∇ The RoverAMP-800AMP is not vapor proof or water proof, do not mount in areas exposed to explosive vapors or in wet or high moisture areas.
- ∇ Antennas must be mounted a **minimum** distance of 50 cm (1.64ft) away from any person.
- ∇ When selecting a location for the interior antenna a minimum distance of 12 feet (3.66m) distance away from the amplifier.
- ∇ **The magnetic mount interior antenna must be installed on a steel surface at least 6" square.**
- ∇ When 2 or more interior repeater antennas are located in the same area they **must** be mounted at different heights to insure optimum performance.
- ∇ Exterior antennas can only be installed outdoors. Under no circumstances can an exterior antenna be installed indoors, Doing so will result in amplifier failure and void the warranty.
- ∇ The power supply must be plugged into a 120 VAC electrical outlet that is connected to a circuit breaker of a minimum of 1 ampere.
- ∇ Under no circumstances should the amplifier be powered up without a properly connected 50 ohm 800/1900 MHz dual band cellular antenna connected to both the internal and external connections or the amplifier may be damaged, resulting in the manufacturer' warranty being voided.
- ∇ For optimum performance and compatibility with cellular service provider requirements, it is recommended that the external antenna be installed above the roofline of a building with a clear view of the surrounding area
- ∇ Use of cellular amplifiers with antennas of higher gains than 15dBi gain is in violation of FCC regulations for which the offender will be fully liable, and warranty claims will be voided.
- ∇ Do not extend the external antenna cable with another coaxial cable. The additional loss of the cable length and connectors will greatly diminish the performance of the amplifier.
- ∇ Use only Rover AMP supplied low loss coax cable to extend the interior repeater antenna cable.

It is recommended that only qualified or informed installation technicians install this product in a building. Installation by any other person is at the risk of the owner and operator.



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Section # 4 - Installation Cautions

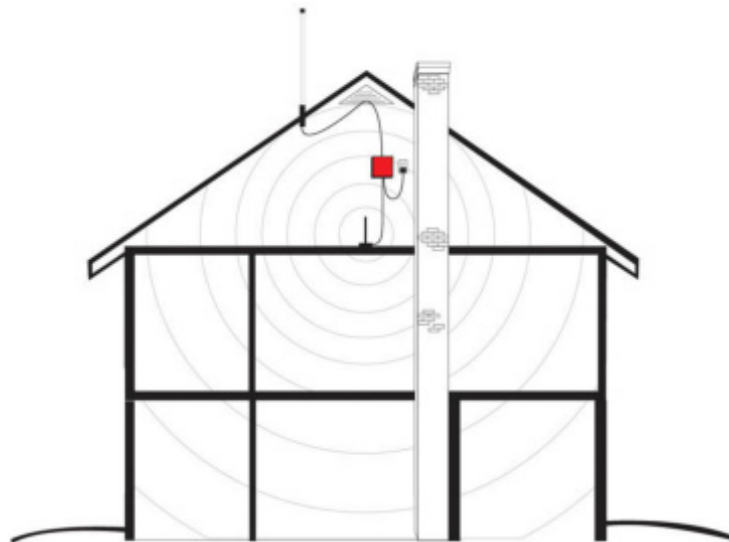
- ▽ Use caution to avoid drilling through or near electrical, water or gas lines.
- ▽ Do not mount the signal amplifier or its associated wiring in a location that may contain hazardous materials or materials that are corrosive.
- ▽ Do not attempt to ground the external antenna. It is designed with its own interior ground system.
- ▽ The interior antenna requires a ground plane. It should be mounted on any type of metal that will have a minimum of one square foot of surface area under the antenna base.

CAUTION: DO NOT INSTALL THE INTERIOR ANTENNA IN A HAZARDOUS LOCATION THAT MAY CONTAIN ANY TYPE OF VOLITILE VAPORS.

Section # 5 - Selecting a Suitable Location to Install the Rover AMP-800AMP Amplifier

- ▽ Locate a suitable place to mount the cellular band amplifier a electrical power source, in a dry area that is well ventilated. The amplifier's location should be easily accessible and mounted away from moving parts, as well as excessive heat and moisture.
- ▽ Antennas must be mounted a **minimum** distance of 50 cm (1.64ft) away from any person.
- ▽ The interior antenna must be located a minimum distance of 6 feet (1.82m) away from the amplifier.
- ▽ When 2 or more antennas are located in the same area, they **must** be mounted at different heights to insure optimum performance.
- ▽ Exterior antennas can only be installed outdoors. Under no circumstances can an exterior antenna be installed indoors, Doing so will result in amplifier failure and void the warranty.
- ▽ The exterior antenna must be mounted above the roof line of the building and at a distance that can be reached by the supplied exterior antenna cable.
- ▽ If the signal level is increased in some areas but not others, it may be due to location of interior antenna or building materials acting as a shield for the radio signals. This can be overcome by re-positioning the interior antenna or, the use of 2 internal antennas in conjunction with a very low loss high quality splitter. Please note that the interior antennas must be at least twenty five (25) feet apart and should be separated by gypsum clad, masonry or metal constructed wall.

RoverAMP-800AMP Installation Diagram #1:



RoverAMP-800AMP Installation Diagram #2:



Section # 6 - Installation of the Cellular In-Building Amplifier

1. Unpack the box with the amplifier, power supply, external antenna, antenna cable and interior antenna.
2. The first item is to find a suitable location for the exterior antenna, which will give a clear view without obstruction, and also allow the antenna cable to penetrate either the roof area or a wall area below the roofline.
3. The exterior antenna contains two mounting brackets, a mounting tube, three sets screws, two 5 mm, and one 6mm, and the actual antenna. (see figures below)
4. Slide the two mounting bracket on to the mounting tube, tighten the center mounting screws, 5 mm, (8mm wrench required) hand tight when the brackets are within 2 inches of the top and bottom of the mounting tube. When the assembly is mounted to the wall surface, make certain the center-mounting hole of the mounting tube is facing outward.
5. Mark the wall surface through the four holes of the mounting brackets.
6. Drill the holes for the mounting brackets and use masonry fasteners, self-tapping screws or bolts to mount the mounting brackets and tube to the wall surface.
7. Attach one end of the RF Coaxial cable with the N connectors to the antenna.
8. Slide the cable through the mounting tube and push the antenna into the top of the tube until the locking threaded hole in the antenna base lines up with the mounting tube hole.
9. Place the 6 mm bolt through the mounting tube hole, with the lock washer and tighten the assembly. (requires 10 mm wrench)
10. Drop the antenna cable through either the roof, or wall penetration into the area below the roofline. Seal all penetrations with either a mechanical device or with some form of silicon sealer.
11. Drill holes or Velcro tape and mount the signal amplifier (ITEM 1) in the selected location.
12. Place the interior antenna as central to the building as possible.



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13. Place the antenna on a metal sheet 12 inches by 12 inches or larger on shelf or any other flat dry surface for a good ground plane. Make sure that the inside antenna is at least four (6) six feet or more below the external antenna in a vertical measurement. Never attempt to install the Interior antenna in the same horizontal plane as the external antenna.
14. Connect the external coaxial antenna cable to the "External Antenna" connection on the amplifier case marked "exterior antenna" This will be on the side with no power LED light or power input.
15. Connect the inside antenna to the "Interior Antenna" connection on the side of the amplifier case that has the power LED light and power input.
16. Insert the 2.5 x 5.5 mm power plug from the power supply (ITEM 4) into the amplifier input next to the power LED light.
17. Insert the power supply to wall 120 VAC power.
18. Make sure the power light comes on the amplifier.
19. The installation is now complete.

Antenna assembly drawing:



Section # 7 - Warranty

Rover AMP Limited Warranty

The Rover AMP Limited Warranty is to the original purchaser for a period of one year from the date of sale. The warranty is limited to the repair or replacement of amplifiers which have a defect in manufacturing components or assembly. The warranty will be voided if the product has been subjected to water damage, over voltage, high temperatures or other forms of abuse. The product must be returned with a RMA number (please call 1.866.232.ROVER (7683) for RMA number) prepaid to the address listed below along with proof of purchase and a brief description of the problem.

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