

User Instructions

**DA4000MR
40dB Repeater**

**CA55M
Exterior Antenna**

**CA09P
Interior Antenna**

**DP515
12VDC Power Supply**


Wireless Mobile Repeater Installation Instructions

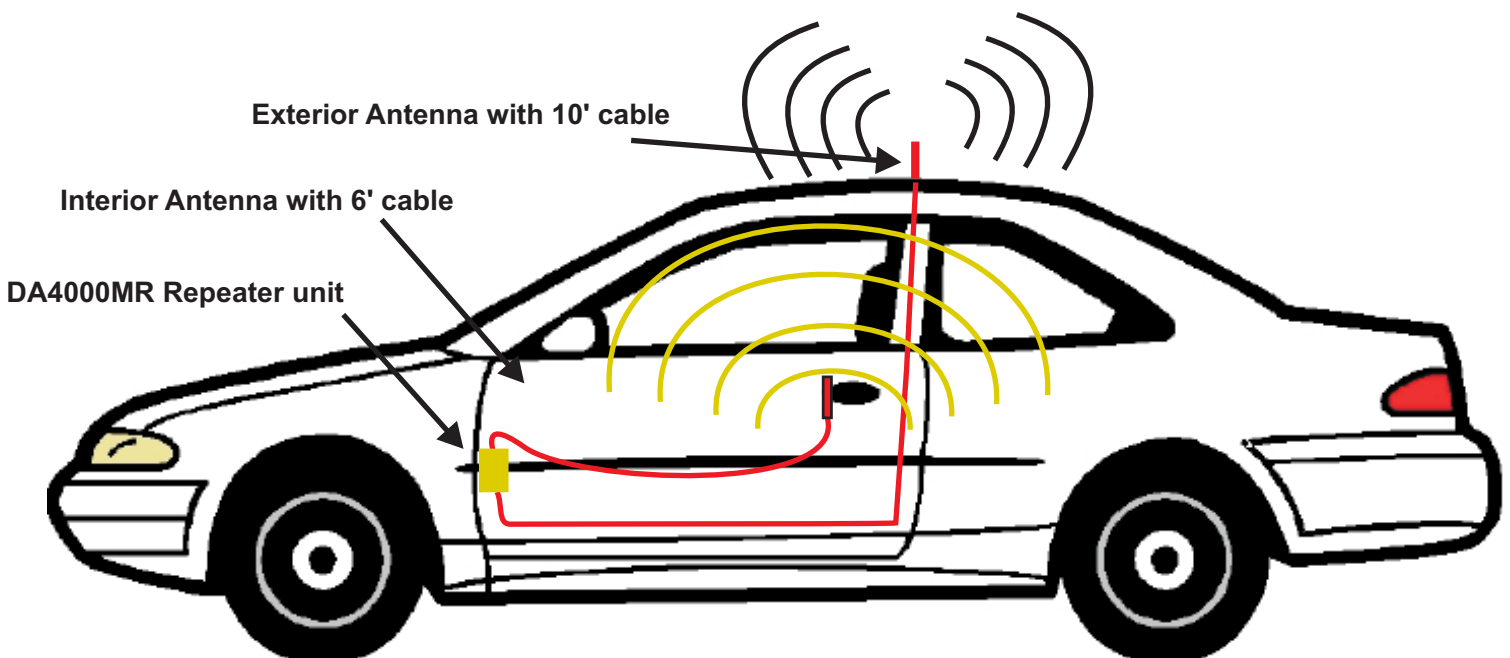
1) Place the repeater (DA4000MR) in a suitable, dry location in the instrument dash, under seat, or in trunk and plug the (DP515) power supply's power cord into the cigarette socket or appropriate power jack. **The included power supply (DP515) must be used. DO NOT connect the DA4000MR repeater unit directly to 12 volts.**

2) Connect the (CA09P) interior slim patch antenna's mini-UHF male connector directly to the DA4000MR's inside antenna port connector. The inside antenna must operate in a vertical position. Attach the inside antenna adhesive side to a non-metal surface on the automobile's center console. **Do not place the interior antenna onto the windshield or windows.** The interior antenna can be placed onto the right side of the driver's headrest with an elastic band.

3) Mount the exterior black magnetic mount antenna (CA55M), on the center of the metal car roof. For a car with a sunroof, place the antenna on the center of the metal area behind the sunroof. The outside antenna must be placed on the roof and cannot be located anywhere else on the automobile. **Do not place the exterior antenna on the trunk or on the edge of the vehicle's roof.**

4) Run the cable for the exterior antenna through the weather stripped area of door jam and into the car. **DO NOT crush or deform cable.** Connect the outside antenna's mini-UHF male connector to the outside antenna port on the repeater unit.

5) After you are certain that all connections are tight and secure, move the repeater's switch labeled "on/off" to the on position. A green light will illuminate indicating that the repeater system is ready for use. **NEVER operate if the repeater's light is red.** If the light on the repeater immediately turns off and the 12VDC power supply flashes red, the power supply's built-in microprocessor controller automatically stopped power to the repeater (turned the repeater off) due to an oscillation (feedback). Please follow troubleshooting guidelines on next page. During normal operation, the lights on the repeater and the power supply should stay green.



Troubleshooting

Flashing red light on the 12 VDC power supply (PN DP515)

Model #4KMR-10A includes a new 12vdc power supply with built-in microprocessor controller that automatically stops power to the repeater (turns the repeater off) in the event of an oscillation (feedback). Please follow troubleshooting guidelines below.

Analog Cell Service: Please contact Digital Antenna if analog service is being used, the microprocessor 12vdc power supply can not be used with analog service. Digital Antenna will send you a replacement power supply if analog service is being used.

Digital Cell Service: The constant red or flashing red light on the power supply indicates the antennas need to be re-located. The power supply turns off the repeater when an oscillation between antennas is detected. The power supply will reset itself after 90 seconds. After 5 automatic resets, you must manually reset the power supply by unplugging the cigarette adapter. After the antennas are re-located, reset the power supply by unplugging it from the cigarette lighter and plugging it back in.

The outside antenna must be centered on the metal portion of the car roof. With a sunroof present, the magnetic mount antenna should be centered on the metal part of the roof between the sunroof and rear window. Try the inside antenna attached to the headrest with a rubber or elastic band. Low on the center console may not be the best location for all vehicles.

Troubleshooting Proper Installations:

Even if the antennas are properly separated, a signal bounce could reflect inside the vehicle's window to the inside antenna. Walls or large trucks reflect cell signals and may reflect the signal into the vehicle. Once a signal bounce is detected, the power supply stops power to the repeater. The power supply resets itself every 90 seconds but will only stay on if the signal reflection is gone. Once the vehicle is moved away from the wall or truck, the power supply will remain on and the LED will remain green.

During normal operation, the lights on the repeater and the power supply should remain green. Please contact Digital Antenna if you have tried all above steps and are unable to obtain solid green lights on 12vdc power supply and repeater.

The 4KMR-10A system can only be used with a metal roof vehicle; it cannot be used on a convertible or vehicle with a composite roof structure. Use model DA4000 direct connect amplifier for vehicles with non-metallic roof. Digital Antenna offers an exchange program to a DA4000 direct connect amplifier within 90 days of 4KMR-10A purchase.

This equipment has been tested and found to comply with the limits for a class B device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or other electronic reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect to isolated power with a ground cable going directly to the battery or DC source
- Repositioning of the coaxial cable may also eliminate interference
- Consult the dealer or an experienced electronics technician for help.

Warning: Per FCC regulations, changes or modifications not expressly approved by Digital Antenna, Inc. could void the user's authority to operate the equipment.

Warranty: Digital Antenna, Inc. warrants Cellular Amplifiers, Repeaters and Accessories for one (1) year, that its Products sold hereunder will at the time of shipment be free from defects in material and workmanship and will conform to Digital Antenna's applicable specifications.