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**USER'S GUIDE  
FOR THE  
BD800AM: AMPS MOBIL  
BI-DIRECTIONAL  
AMPLIFIER/REPEATER**

MODEL: BD800NM

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# 1. PACKAGE CONTENTS

- 1.1 Amplifier/Repeater
- 1.2 12V Car Adapter
- 1.3 Low Profile Antenna (Inside Antenna)
- 1.4 (Outside Antenna Sold Separately) 800 MHz Magnet Mount Shown



## 2. AMPLIFIER

### 2.1 About

The Amplifier greatly improves signal strength when using your portable IDEN phone inside the car. The signal is received by the outside antenna from the cell site. It is then AMPLIFIED/REPEATED and then transmitted to your AMPS phone through the inside antenna. When the phone transmits it is received by the inside antenna. It is then AMPLIFIED/REPEATED and then transmitted to the cell site through the outside antenna.

### 2.2 Specifications:

FREQUENCY:	806-821 MHZ UPLINK 851-866 MHZ DOWNLINK
GAIN:	37 DB UPLINK 37 DB DOWNLINK
FLATNESS:	+ - 2DB
MAX RF OUTPUT POWER:	UPLINK 1W DOWNLINK 0.01W
NOISE FIGURE:	6DB @894MHZ
UPLINK DOWNLINK ISOLATION:	> 90 DB
POWER CONSUMPTION:	12V, .5Amps
CONNECTOR:	2-FME-Male 50 OHMS
DIMENSIONS:	5.5 x 4.3 x 1.4 (INCHES) OR 14.0 x 10.8 x 3.5(CM)
WEIGHT:	1.32 POUNDS OR 600G

### 3. AMPLIFIER/REPEATER INSTALLATION (REFER TO ILLUSTRATION)

#### 3.1 Installing the Outside Antenna (800 MHz Magnet Mount) [Sold Separately]

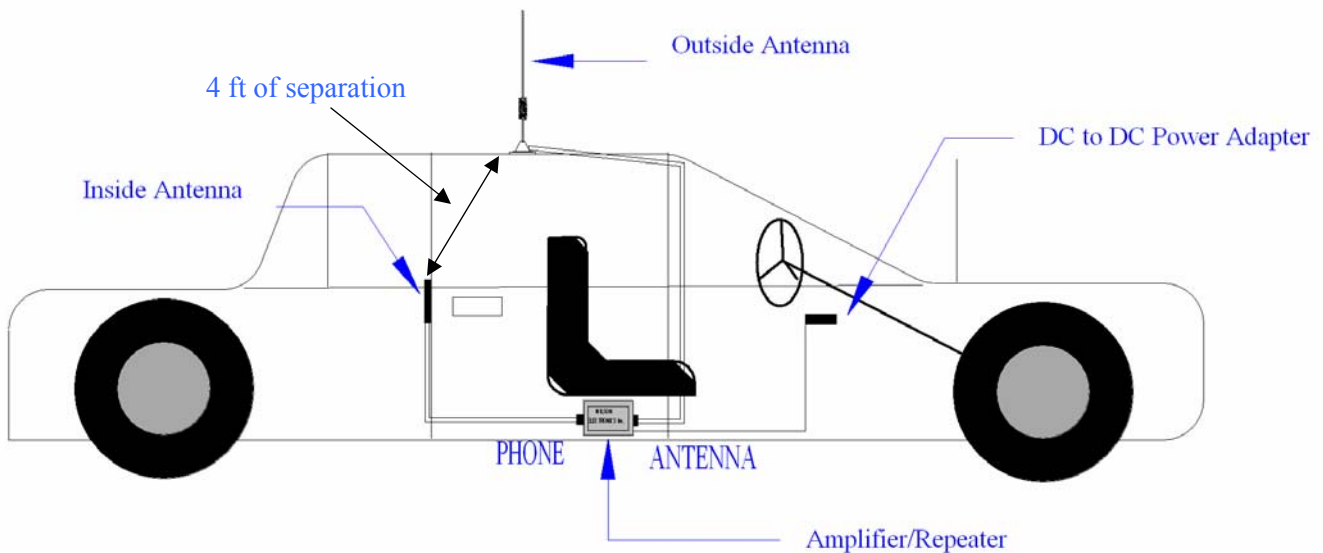
3.1.1 Select a location on the roof: Try to keep Antenna centered on the car roof.

3.1.2 The Outside Antenna should be located in an area with at least a 12” (30cm) radius clear of obstructions, and other radiating elements.

**NOTE:** When using a **magnet mount or trucker antenna**, keep the separation distance between the inside and outside antennas at least 4ft. When using a **glass mount antenna**, keep the separation distance between the inside and outside antennas at least 5ft.

**WARNING:** The outside antenna used with this amplifier must be mounted with a separation distance of at least 8 inches from all persons and must not be co-located or operating in conjunction with any other antenna or amplifier.

#### ILLUSTRATION



## AMPLIFIER LAYOUT

## 3.2 Installing The Amplifier/Repeater

3.2.1 Mount the AMPLIFIER/REPEATER under the dash or car seat.

3.2.2 Connect the Outside Antenna to the AMPLIFIER/REPEATER side labeled “OUTSIDE ANTENNA”.

**NOTE:** The amplifier should be mounted to the selected location using mounting screws.

## 3.3 Installing The Inside Antenna

3.3.1 Connect the Inside Antenna to the side labeled “INSIDE ANTENNA” on the AMPLIFIER/REPEATER.

3.3.2 The Inside Antenna should be centered in the vehicle. It can be placed in the seat back between the seat cushion and fabric or in the vehicle headliner.

**WARNING:** The inside antenna used with this amplifier must be mounted with a separation distance of at least 8 inches from all persons and must not be co-located or operating in conjunction with any other antenna or amplifier.

