



Wilson
Electronics, Inc.

3301 E. Deseret Drive
St. George, Utah 84790
wilsonelectronics.com
cellular@wilsonelectronics.com

Phone **1-800-204-4104**

Fax **1-435-656-2432**

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

MODEL: BD800AM

The information provided by Wilson Electronics, Inc. is believed to be complete and accurate. However, no responsibility is assumed by Wilson Electronics, Inc. for any business or personal losses arising from its use, or for any infringements of patents or other rights of third parties which may result from its use.

FCC ID: PWOBD800AM
Copyright © 2002 Wilson Electronics, Inc.

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

Bi-Directional Amplifier Package - Auto

**OUTSIDE ANTENNA
NOT INCLUDED**



**800 MHz
Outside
Magnet Mount
Antenna**



**800 MHz
Inside Antenna**



**DC to DC
Power Adapter**



Repeater / Amplifier

2. AMPLIFIER

2.1 About

The Amplifier greatly improves signal strength when using your portable AMPS 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:	824-849 MHZ UPLINK 869-894 MHZ DOWNLINK
GAIN:	37 DB UPLINK 37 DB DOWNLINK
FLATNESS:	+ - 2DB
MAX RF OUTPUT POWER:	UPLINK 1.86 W DOWNLINK 0.074W
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]

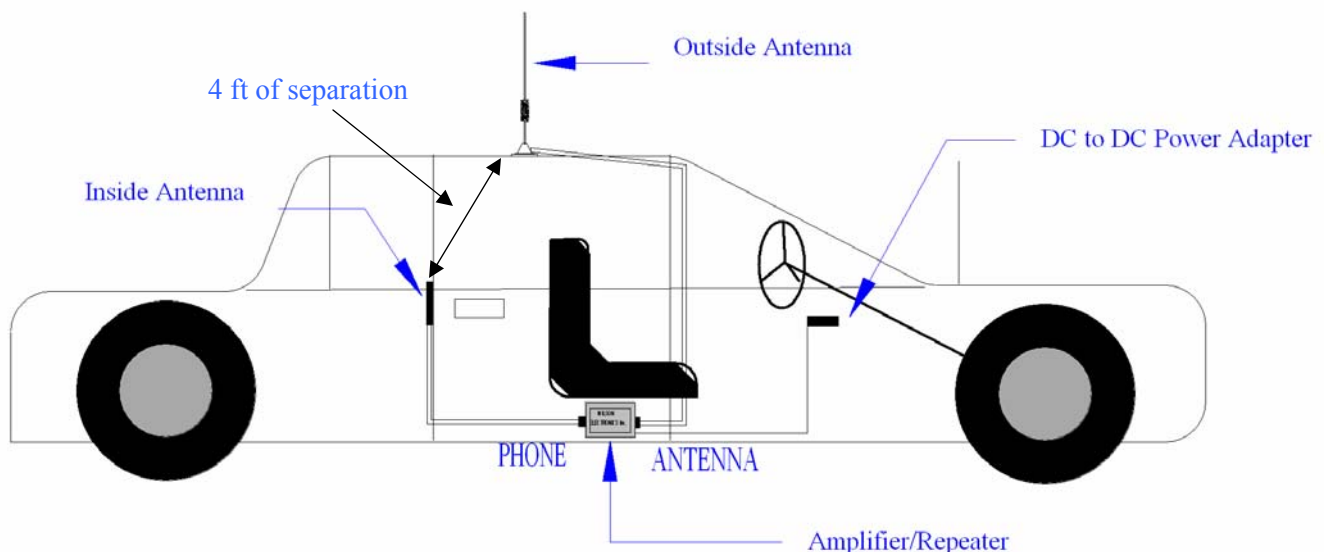
3.1.1 Select a location on the roof: Try to keep Antenna centered on the car roof.

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.

