

DIRECT CONNECTION

Vehicle & Building



Installation Guide



**iDEN
DIRECT CONNECTION
AMPLIFIER**

Part# 814001

FCC ID: PWO806D

IC: 4726A-806D

Wilson Electronics, Inc.

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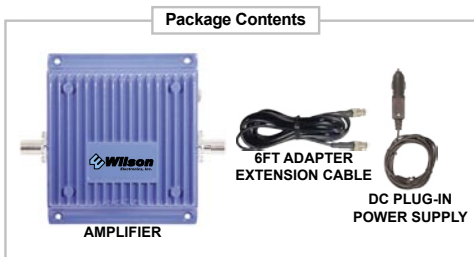
The term "IC:" before the radio certification number only signifies that Industry of Canada technical specifications were met.

1. PURPOSE OF THE DIRECT CONNECTION AMPLIFIER

The Direct Connection Bi-directional Amplifier improves RF coverage in areas with no signal or low signal strength. Part# 811101 Amplifies the signal on 800MHz up to 3 watts and allows for the full benefit of the outside antenna on 1900MHz frequencies. Part# 814001 Amplifies the iDEN (Nextel) frequencies up to 3 watts.

2. PACKAGE CONTENTS

- 2.1 Bi-directional Direct Connection Amplifier.
- 2.2 DC plug-in power supply with ON/OFF switch.
- 2.3 6ft. Adapter Extension Cable.



3. HOW THE DIRECT CONNECTION AMPLIFIER FUNCTIONS

When using 800 MHz the signal is received by the outside antenna from the cell site. The signal is then AMPLIFIED and sent into your phone through the adapter (sold separately). When the phone transmits, the signal is sent to the amplifier through the adapter then AMPLIFIED and transmitted to the cell site through the outside antenna. When using 1900MHz (PCS) the signal bypasses the amplifier's circuitry while getting full benefit from the outside antenna.

NOTE: Amplifier #814001 does not have a 1900MHz (PCS) bypass as iDEN (Nextel) does not utilize this frequency.

4. AMPLIFIER INSTALLATION (see illustration on pg.4)

4.1 Installing the **Wilson Cellular** Antenna

4.1.1 See antenna packaging for model specific instructions.

WARNING: Verify that both the outside antenna and adapter extension cable are connected before powering up the AMPLIFIER.

RF SAFETY WARNING: (MOBILE ONLY) The outside antenna must be mounted with a separation distance of at least 15.5 inches from any of the vehicle occupants or nearby persons and must not be co-located or operating in conjunction with any other antenna or amplifier. Use of a cellular amplifier with antenna gains higher than 5.12dBi is in violation of FCC regulations for which the offender is fully liable. All Wilson Mobile Antennas are 5.12dBi or less.

WARNING: (IN-BUILDING ONLY) Lightning protection is recommended for all in-building installations.

RF SAFETY WARNING: (IN-BUILDING ONLY) When using in-building, the outside antenna must be fixed-mounted on an outdoor permanent structure with a separation of at least 20 feet from all persons during normal operation.

4.2 Installing The Amplifier

4.2.1 Select a suitable location to mount the AMPLIFIER.

- In vehicle installation - under the dash or vehicle seat
- In building installation - on a wall or ceiling

NOTE: Mount the AMPLIFIER away from direct sunlight, excessive heat and/or moisture. The amplifier needs proper ventilation. DO NOT place the amplifier in an air-tight enclosure. Use #6 screws to mount the amplifier.

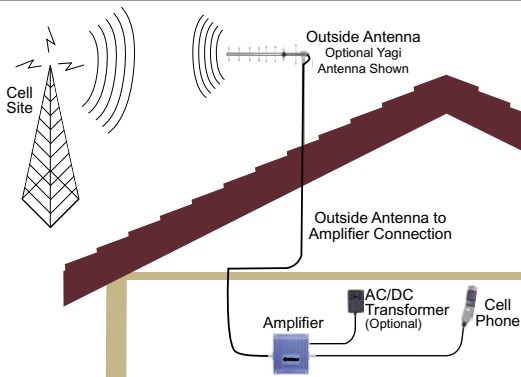
4.2.2 Connect the outside antenna to the AMPLIFIER side labeled “OUTSIDE ANTENNA”.

4.2.3 Connect the ADAPTER EXTENSION CABLE to the AMPLIFIER side

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In-Building Installation



Mobile Installation

