

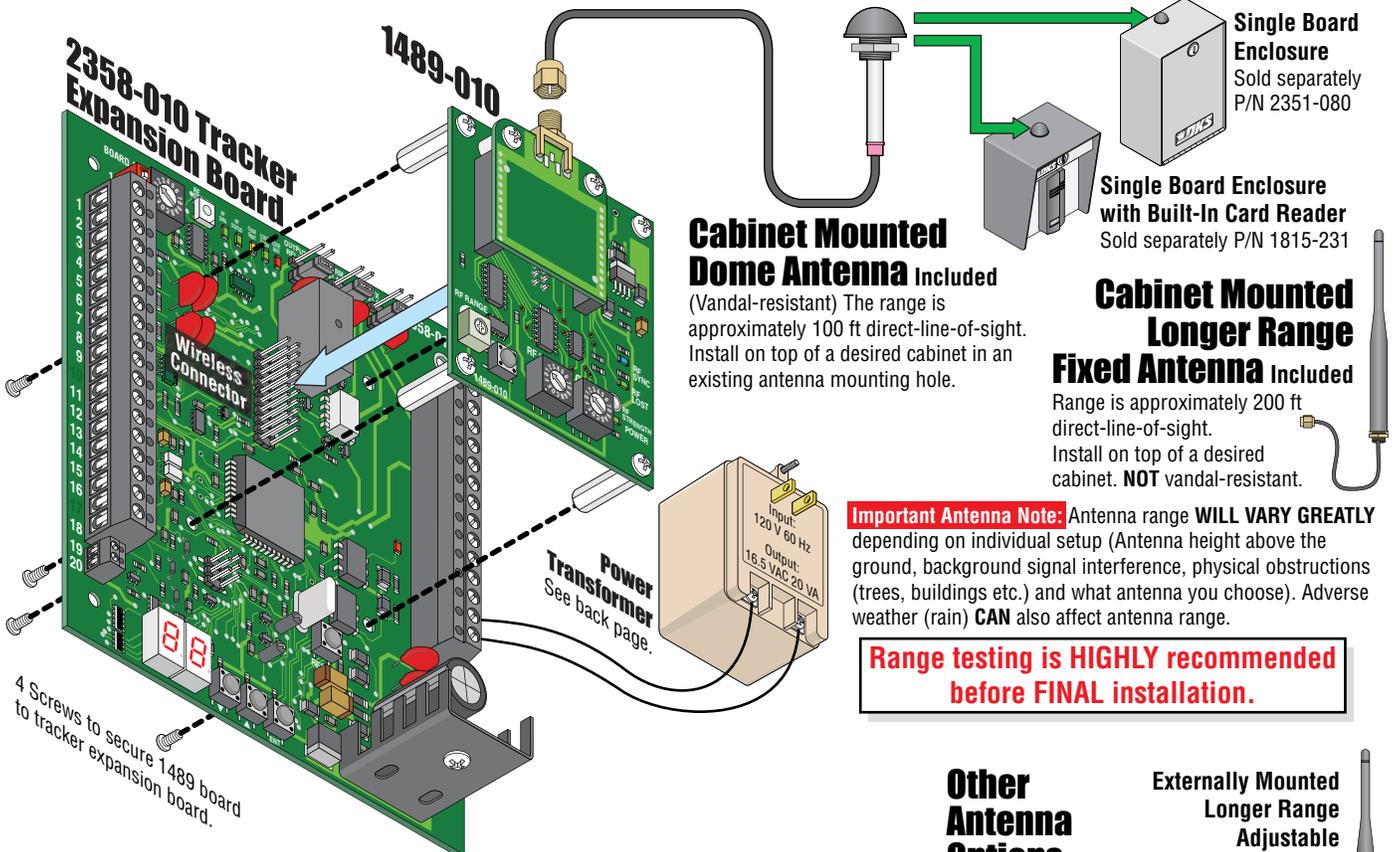
WIRELESS TRACKER EXPANSION BOARD RF KIT

DoorKing Part Number
1489-080

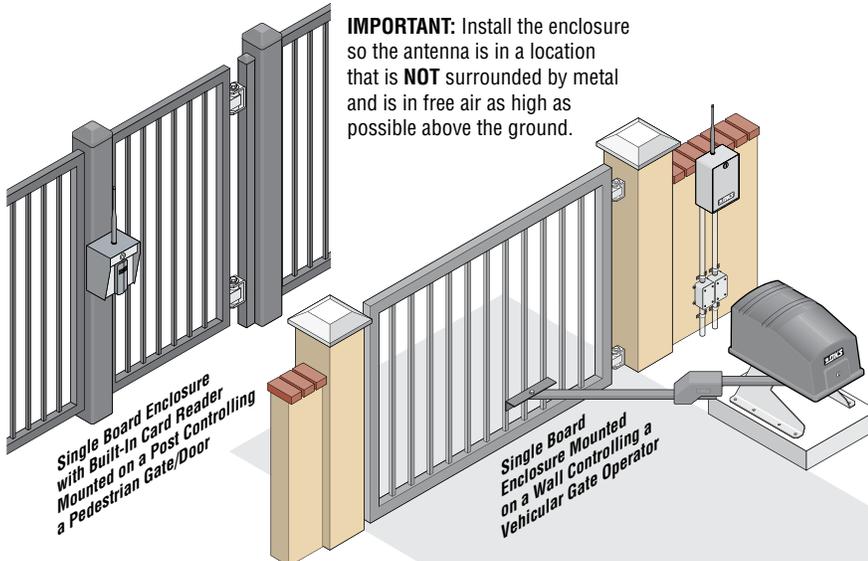
This wireless kit provides wireless communication for a 2358-010 tracker expansion board to a wireless baseboard in a access control system. Use wireless tracker expansion boards **ONLY** with DoorKing: 1833, 1835, 1837 and 1838 multi-door access controller access control systems. **DO NOT** use with 1838 Access Plus model.

Installation

Plug the 1489-010 board into the wireless connector and secure boards with 4 screws to the tracker expansion board. See the HARDwired tracker expansion board manual to connect desired options to terminals #1- #34 to manage a remote access point. **DO NOT CONNECT ANY WIRES TO TERMINALS #10, #17, #27, #28 or #29 (Used for HARDwire communication line ONLY)**. Power transformer must connect to tracker expansion board #33 and #34 (**REQUIRED**). Antenna is **REQUIRED**, see below for antenna options.

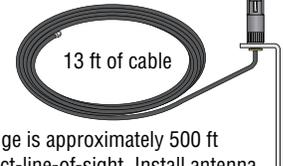


Typical Remote Access Point Installations



Other Antenna Options

Externally Mounted Longer Range Adjustable Antenna Kit
Sold separately,
P/N 1514-075



Range is approximately 500 ft direct-line-of-sight. Install antenna vertically as high as possible in free air above Tracker Expansion Board.

Wireless Repeater

Sold separately, P/N 2364-080

May be necessary to increase the wireless communication range between the access control system and the tracker expansion board(s). It is located between the wireless antennas. It will receive a signal sent to it by one wireless system and repeat that signal to the next wireless system. The range is approximately 500 ft direct-line-of-sight with no signal interference or physical obstructions.

Board Reference

See "Wireless System Layout and Start-Up Procedure" for system layout limitations.

RF SECURE LED

UNPAIRED MODE:

Steady Red – Board is communicating with **unpaired** wireless baseboard.
Blinking Red – Board is **NOT** communicating with **unpaired** wireless baseboard.

PAIRED MODE:

Steady Green - Board is communicating with **paired** wireless baseboard.
Blinking Green - Board is **NOT** communicating with **paired** wireless baseboard.

- RF Data LED** – Blinks when receiving a reply from wireless baseboard after a card code is sent.
- RF Status LED** – Not used.
- Code Sent LED** – Blinks after a card code has been sent to wireless baseboard.
- Code Good LED** – Blinks if the card code is in the database (access granted).
- Code Bad LED** – Blinks if the card code is **not** in the database (access denied).

RF Strength LED:

Updated every time a **RF SYNC** signal is received.
Green - Strong signal - **Normal**
Yellow - Marginal signal - May lose communication.
Red - Poor signal - Unreliable

RF SYNC LED:

Blinking Blue - Connected with wireless baseboard.
Blinking Rapidly - Pairing with wireless baseboard.
OFF - No signal with wireless baseboard.
Note: If LED lights for a couple of seconds after the reset button or program button is pressed, this indicates this board has been programmed to forward card codes for other boards (See program table).

RF LOST LED:

ON - Lost communication with wireless baseboard.
OFF - Communication is established with wireless baseboard.
Blinking Rapidly - Pairing with wireless baseboard.

Board Address (REQUIRED)

Connection to Wiegand 2: Addresses 03-10
Connection to Wiegand 1: Addresses 11-18
See **HARDwire** tracker expansion board manual for more information.

RF Range Adjustment

Set to max (full clockwise) for most applications. This may need to be dialed back to limit the range when using a repeater.

Program Button:

- Press after adjustment has been made to the **RF RANGE**, **RF ID** or **RF CH** before changes will take effect.
- Press and hold for 3 sec. to **PAIR** to wireless baseboard, may take up to 20 seconds to **PAIR**.
(**RF SECURE LED Paired** - steady **GREEN**).
- Press and hold **again** for 3 sec. to **UNPAIR** from wireless baseboard if necessary
(**RF SECURE LED Unpaired** - steady **RED**).

IMPORTANT Wiring and LED Note:

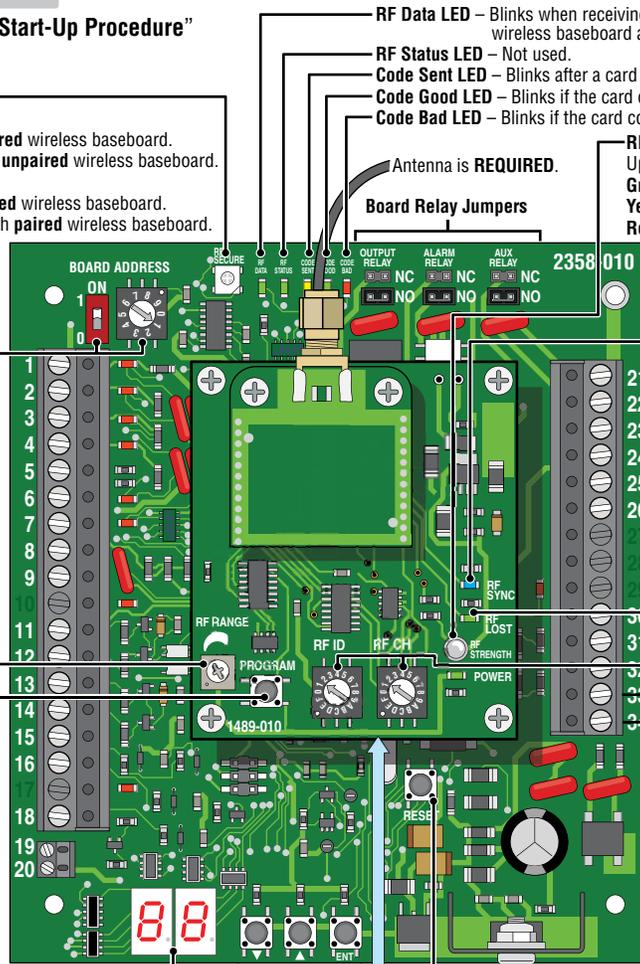
See **HARDwire** tracker expansion board manual for terminal #1 - #34 connections and LED descriptions. **DO NOT** connect any wires to terminals #10, #17, #27, #28 and #29.

LED Display

Press **▼▲** buttons or **ENT** button to activate LED display.

2358 Tracker Expansion Board

1489 Wireless Board



RF ID	RF CH	Important
		MUST be set to SAME ID number and channel number as the wireless baseboard.

Power Transformer

Power transformer is **REQUIRED** and is wired to terminals #33 and #34, wire polarity does not matter.

16.5 VAC
20 VA

18 GA. Wire 100 ft max
16 GA. Wire 200 ft max

Programming

See the "**HARDwired Installation/Owner's manual**" for complete programming information for the tracker expansion board.

Important Notice Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices are used in a normal manner with a well-constructed network, DoorKing wireless products should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. DoorKing, Inc. accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using DoorKing wireless products, or for failure of DoorKing wireless products to transmit or receive such data.

Safety and Hazards Do not operate DoorKing wireless products in areas where cellular modems are not advised without proper device certifications. These areas include environments where cellular radio can interfere such as explosive atmospheres, medical equipment, or any other equipment which may be susceptible to any form of radio interference. DoorKing wireless products can transmit signals that could interfere with this equipment. Do not operate DoorKing wireless products in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, DoorKing wireless products **MUST BE POWERED OFF**. When operating, DoorKing wireless products can transmit signals that could interfere with various onboard systems.

Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. DoorKing wireless products may be used at this time.

The driver or operator of any vehicle should not operate DoorKing wireless products while in control of a moving vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offence.