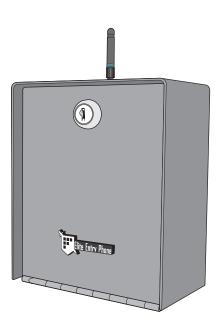
Model: ERRB-485

Please read this entire manual before installation.

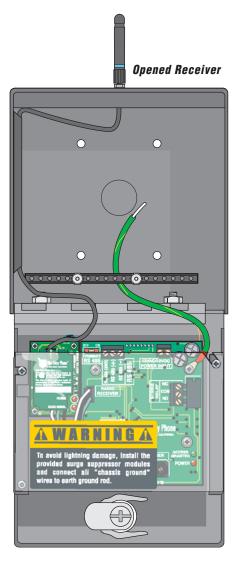
- RS-485 Radio Receiver is not a stand alone device. It must be connected to an Elite Entry Phone system for operation.
- RS-485 Radio Receiver has its own independent strike relay. No relay activation takes place on main telephone entry system.
- Elite has provided surge suppressor modules to protect the radio receiver against lightning damage.

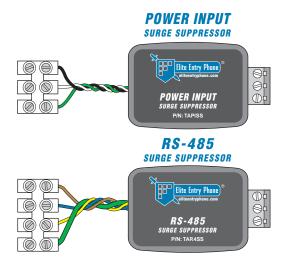


Closed Receiver

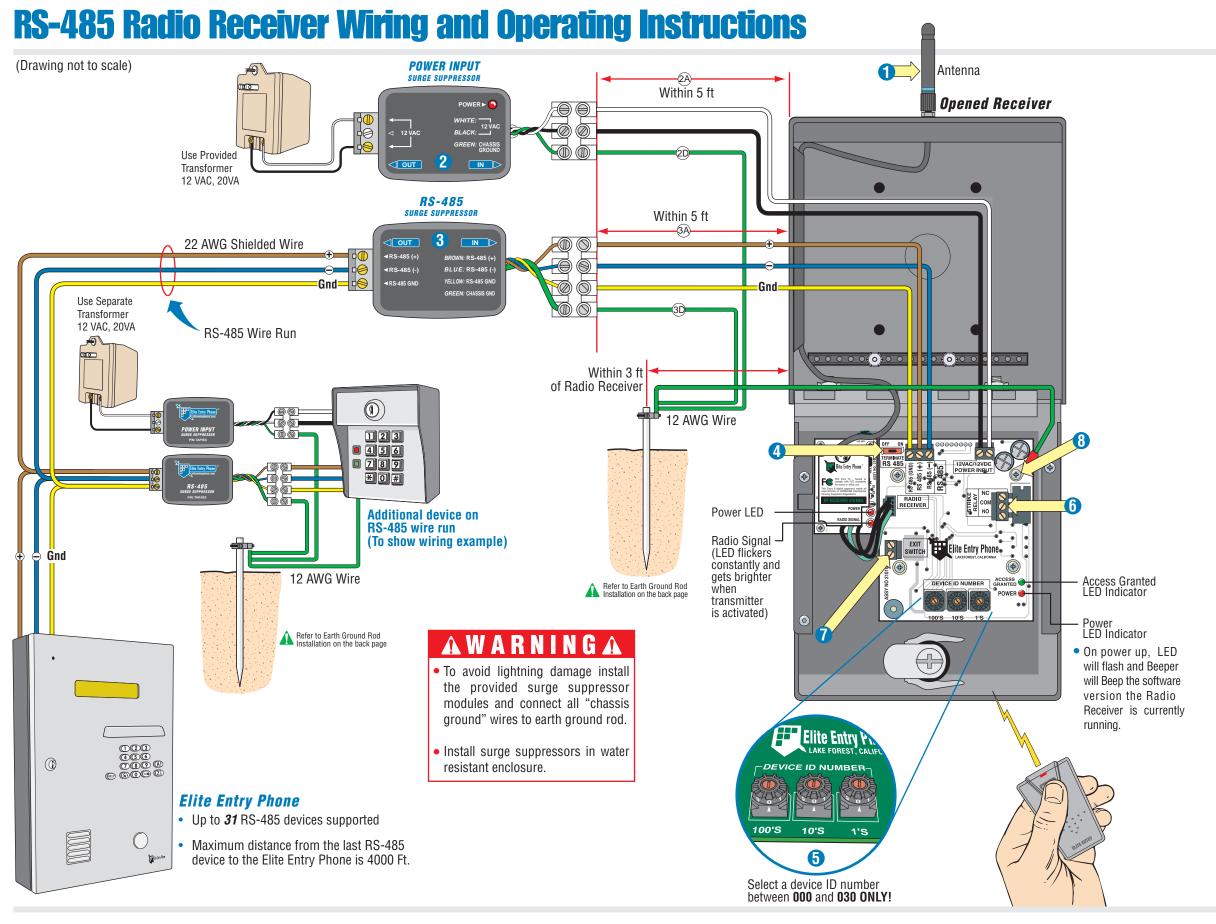


Do not share radio receiver's transformer with any other devices.









WIRING INSTRUCTIONS

- 1 Install the radio receiver a minimum of 6 ft above ground for best reception. Avoid any metallic surface around the antenna.
- POWER INPUT PORT CONNECTION
 - (2A) Install power input surge suppressor module within 5 ft of receiver.
 - ②B Connect the
 Note input surge suppressor module to the power input of the receiver.

 (Polarity does not matter)
 - © Connect the Vout side 12 VAC terminals of the power input surge suppressor module to the transformer output. (Polarity does not matter)

 Note: Center terminal is not used.
 - Use a separate transformer. Maximum distance from transformer to receiver should not exceed 300 feet, using 18 gauge wire.
 - ②D Connect the green "Chassis Ground" of the power input surge suppressor module to the earth ground rod.
- RS-485 COMMUNICATION PORT CONNECTION
 - (3) Install RS-485 surge suppressor module within 5 ft of receiver. (Use 22 AWG twisted pair shielded wire)
 - (3B) Connect the NS-485 surge suppressor module to the RS-485 port of the radio receiver.

```
RS-485 (+) → RS-485 (+)
RS-485 (-) → RS-485 (-)
RS-485 (Gnd) → RS-485 (Gnd)
```

© Connect the **down** side of the RS-485 surge suppressor module to the **down** side of the next RS-485 surge suppressor module in the wire run. (Use 22 AWG twisted pair shielded wire)

```
RS-485 (+) ← RS-485 (+)
RS-485 (-) ← RS-485 (-)
RS-485 (Gnd) ← RS-485 (Gnd)
```

- ③ Connect the green "Chassis Ground" of the RS-485 surge suppressor module to the earth ground rod.
- 4 Turn "ON" Terminator Switch ONLY for last slave device installed on RS-485
- 5 Set *Unique Device ID Number* between 000 and 030 and then power up the device. The device MUST be unplugged (powered down) to change ID number.
- **(5)** The Strike Relay can be used to control a gate operator, magnetic lock or a solenoid. The **Strike Time** for this relay is programmable using the phone entry system's "Gate Strike Time" setting.
- (Optional) Connect the two exit switch wires to the exit switch input on the radio receiver. (Polarity does not matter)

 Note: When exit switch is engaged, strike relay is activated for 5 seconds.
- 8 Important! Ground the radio receiver using the provided "chassis ground" 12 AWG wire

OPERATING INSTRUCTIONS

Activate a transmitter within radio receiver's range. (Max. range of 70 ft)

Radio Receiver Response:

Valid code response: A single long beep during strike relay activation. **Invalid code response**: Three (3) short consecutive beeps.



Proper grounding gives an electrical charge, like an electrical static discharge or a near lightning strike, a path from which to dissipate its energy safely into the earth.

Without this path, the intense energy generated by lightning could be directed towards the Elite Entry Phone equipment. Although nothing can absorb the tremendous power of a direct lightning strike, proper grounding can protect the equipment in most cases.

The type and length of earth ground rods vary by region. Contact the building inspector's office in the municipality where you plan to install the unit for correct grounding materials and installation procedures.

Before digging, contact local underground utility locating companies.

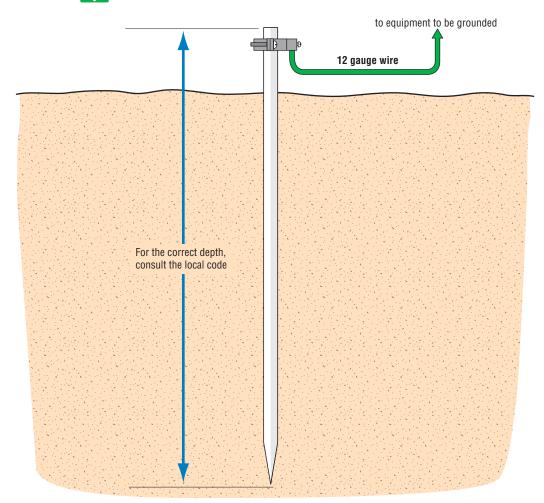
Avoid damaging gas, power, or other underground utility lines.

The earth ground rod must be located within 3 feet from the Elite Entry Phone equipment. Use the proper type earth ground rod for your local area

The ground wire must be a single, whole piece of wire. Never splice two wires for the ground wire. If you should cut the ground wire too short, break it, or destroy its integrity, replace it with a single wire length.



The earth ground rod must be located within 3 feet from the equipment being grounded.



Warning:

Elite Entry Phone is not responsible for improper installation or failure to comply with all necessary local building codes.

