



Owner's Manual

Model 1150
Vehicular Overhead Gate Operator

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Use this manual with the following model only.

Model 1150-080, 1150-081, 1150-082, 1150-083 with circuit board 4402-010.

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QUICK START

- 1 Mount header bracket to header and gate bracket to top rail of gate.
See page 14-15.
- 2 Mount operator and attach arm to operator and gate.
See page 16-18.
- 3 Connect 115 VAC supply voltage: Black to HOT terminal, White to NEUTRAL terminal, Green to GROUND LUG. Be sure power is OFF!
See page 22.
- 4 Connect control wiring as shown. All devices that open the gate connect to terminals 1 (common) and terminal 5 (full open). 24 VAC Radio Power is available at terminal 14.
See page 23.
- 5 Connect secondary entrapment prevention devices.
See page 24-25.
- 6 Connect in-ground loop wires to REVERSE and EXIT loop detectors as required.
See page 26.
- 7 Set control board for OVERHEAD GATE operation (SW-2, switch 3 ON).
Set close timer ON or OFF (SW-1, switch 2) as required. If gate system does not utilize in-ground loop system or photo-cells, timer must be OFF.
See page 34-35.
- 8 Adjust OPEN limit nut to activate open limit switch. Adjust CLOSE limit nut to activate close limit switch.
See page 34.
- 9 Turn power ON. Give gate an open command. If gate runs towards CLOSE position, turn power off. Change setting of direction switch (SW-1, switch 1) and then turn power ON. Give gate an open command. Adjust limit nuts as necessary.
See page 34.
- 10 Adjust both open and close inherent reverse sensitivity.
See page 35.

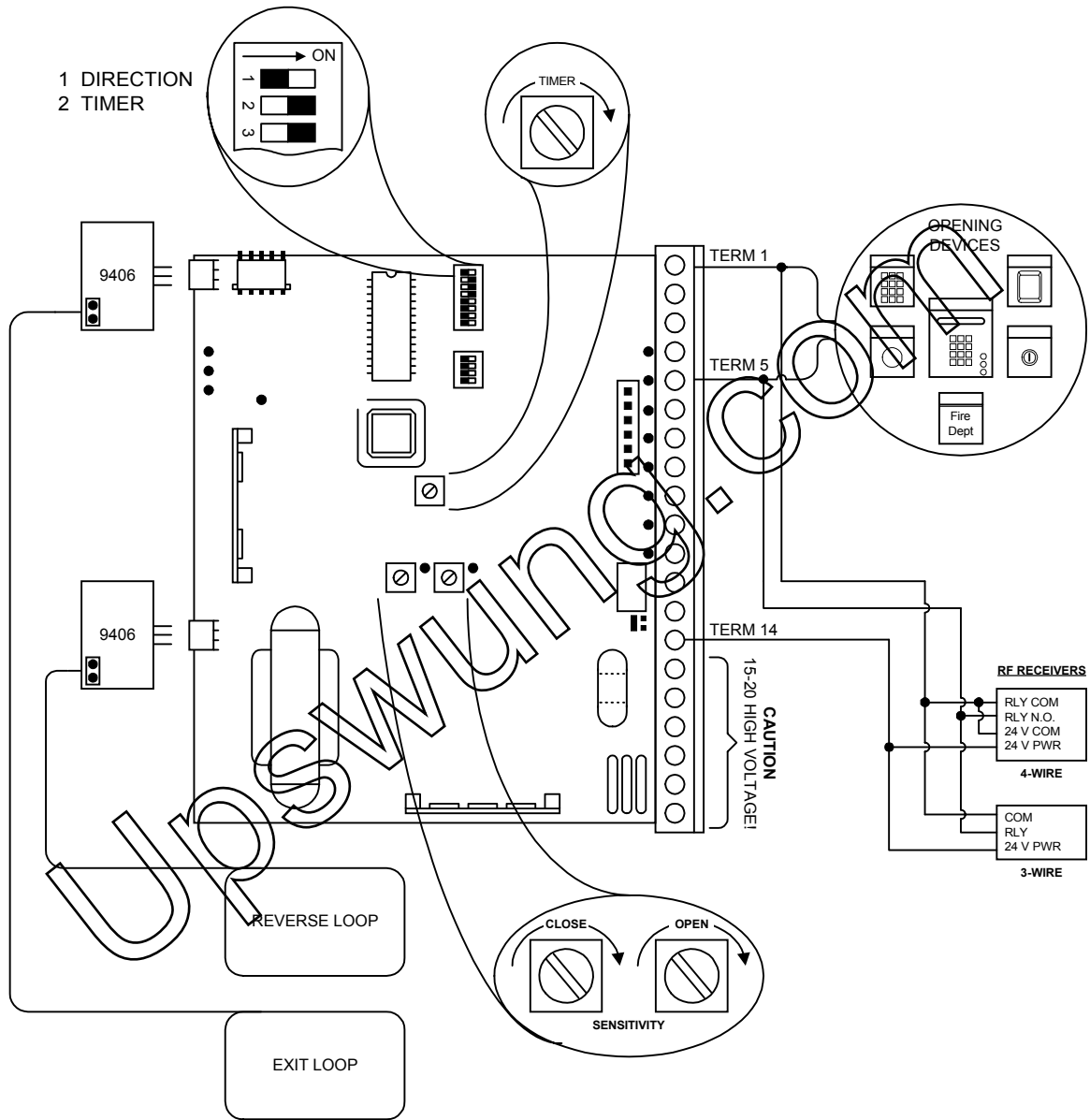


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IMPORTANT NOTICES

Vehicular gate systems provide convenience to their users and limit vehicular traffic onto your property. These systems can produce high levels of force; therefore it is important that you are aware of possible hazards associated with your gate operating system. These hazards may include pinch points, entrapment, absence of controlled pedestrian access or traffic backup.

Be sure that the installer has instructed you on the proper operation of the gate and gate operator system. Be sure that the installer has trained you about the basic functions of the required reversing systems associated with your gate operating system and how to test them. These include reversing loops, inherent reversing system, electric edges, photoelectric cells, or other external devices.

- This Owner's Manual is your property. Keep it in a safe place for future reference.
- **Loops and loop detectors, photo-cells or other equivalent devices must be installed with this gate operator to prevent the gate from closing on vehicular traffic.**
- The speed limit for vehicular traffic through the gate area is 5 MPH. Install speed bumps and signs to keep vehicular traffic from speeding through the gate area. Failure to adhere to posted speed limits can result in damage to the gate, gate operator, and to the vehicle.
- Be sure that all residents are familiar with the proper use of the gate and gate operator. Be sure that all residents are familiar with the possible hazards associated with the gate system.
- Be sure that all warning signs are permanently installed on both sides of the gate in an area where they are fully visible to traffic.
- It is your responsibility to periodically check all reversing devices. If any of these devices are observed to function improperly, remove the operator from service immediately and contact your installing or servicing dealer.
- Follow the recommended maintenance schedule.
- Do not allow children to play in the area of the operator or to play with any gate-operating device.
- Be sure that all activating devices are installed a minimum distance of 10 feet away from the gate and gate operator, or in such a way that a person cannot touch the gate or gate operator while using the activating device. If activating devices are installed in violation of these restrictions, immediately remove the gate operator from service and contact your installing dealer.
- To remove the gate operator from service, operate the gate to the full open position and then shut off power to the operator at the service panel.

IMPORTANT SAFETY INSTRUCTIONS

WARNING - To reduce the risk of injury or death:

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. Never let children operate or play with gate controls. Keep the remote control away from children.
3. Always keep people and objects away from gate. NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.
4. Test the operator monthly. The gate MUST reverse on contact with a rigid object or stop or reverse when an object activates the non-contact sensors. After adjusting the force or the limit of travel, retest the gate operator. Failure to adjust and retest the gate operator properly can increase the risk of injury or death.
5. KEEP GATES PROPERLY MAINTAINED. Read the owner's manual. Have a qualified service person make repairs to gate hardware.
6. The entrance is for vehicles only. Pedestrians must use separate entrance.
7. SAVE THESE INSTRUCTIONS!

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RESTRICTIONS AND WARNINGS

Install The Gate Operator Only If:

- The operator is appropriate for the usage Class of the application and the gate is within the weight and length limitations specified for the operator.
- All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 4 feet (1.2 m) above the ground to prevent a 2 ¼ inch (57.15 mm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position.
- All exposed pinch points are eliminated or guarded.
- This operator is intended for installation only on overhead gates used to control vehicular traffic. Pedestrians must be provided with a separate access opening.
- The gate must be installed in a location so that sufficient clearance is provided between the gate and adjacent structures when opening and closing to reduce the risk of entrapment (see diagram). Sliding gates should not open into public access areas.
- The gate must be properly installed and work freely in both directions prior to the installation of the gate operator. Do not reduce reversing sensitivity to compensate for a damaged gate.
- Controls must be far enough from the gate so that the user is prevented from coming in contact with the gate while operating the controls. Outdoor or easily accessible controls should have a security feature to prevent unauthorized use.
- All warning signs and placards must be installed where visible in the area of the gate.

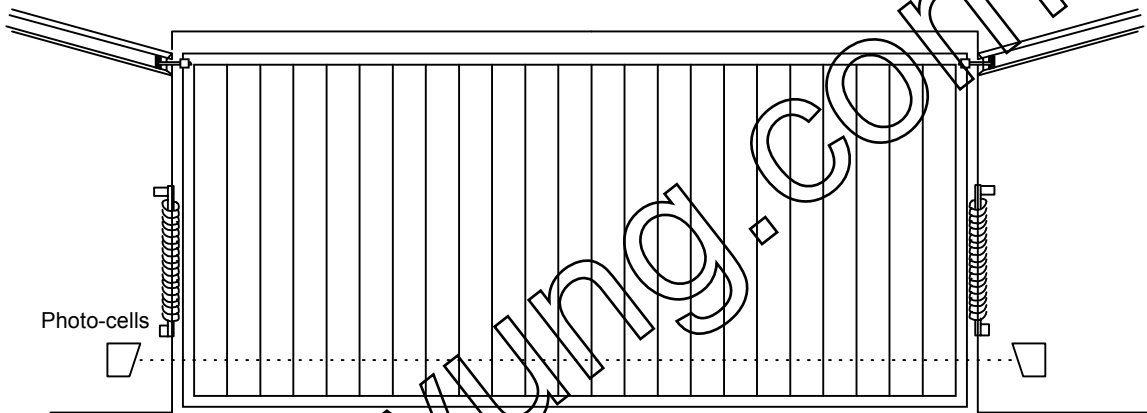
ENTRAPMENT PREVENTION

This vehicular gate operator is equipped with an inherent (Type A) entrapment sensing system. This system will sense an obstruction in both the opening and closing gate cycles, and will cause the gate to stop (open cycle) or reverse (close cycle) direction should an obstruction be encountered. See Section 4 for more information.

EXTERNAL ENTRAPMENT PREVENTION

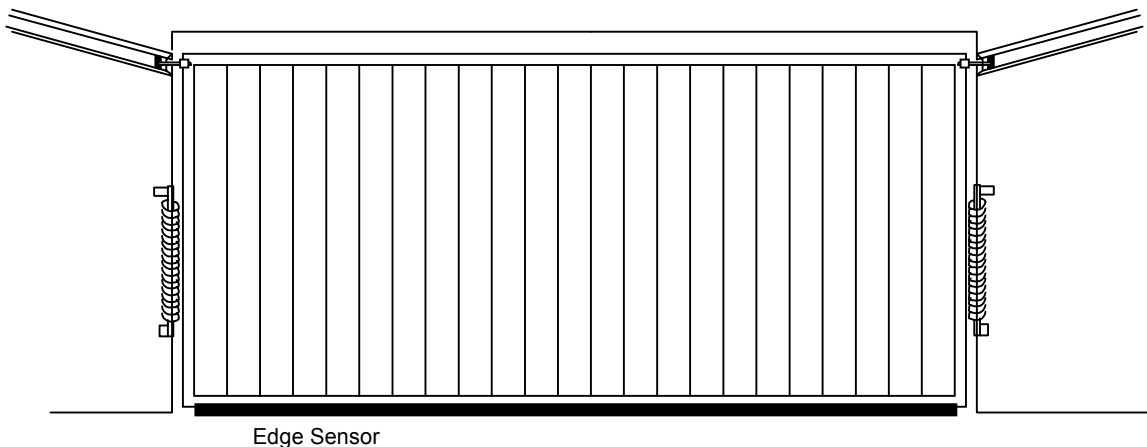
Non-contact and/or contact sensors must be installed individually or in combination with each other to provide external entrapment prevention. For gate operators utilizing a non-contact sensor:

- See diagram below for placement of non-contact sensors.
- Care should be exercised to reduce the risk of nuisance tripping, such as when a vehicle trips the sensor while the gate is still moving, and
- One or more non-contact sensors shall be located where the risk of entrapment or obstruction exists, such as the perimeter reachable by a moving gate or barrier.



For gate operators utilizing a contact sensor:

- A hardwired contact sensor shall be located and its wiring arranged so that the communication between the sensor and the gate operator is not subjected to mechanical damage.
- A wireless contact sensor such as one that transmits radio frequency (RF) signals to the gate operator for entrapment prevention functions shall be located where the transmission of the signals are not obstructed or impeded by building structures, natural landscaping or similar obstruction. A wireless contact sensor shall function under the intended end-use conditions.



GLOSSARY

GATE – A moving barrier such as a swinging, sliding, raising, lowering, or the like, barrier, that is a stand-alone passage barrier or is that portion of a wall or fence system that controls entrance and/or egress by persons or vehicles and completes the perimeter of a defined area.

RESIDENTIAL VEHICULAR GATE OPERATOR-CLASS I - A vehicular gate operator (or system) intended for use in a home of one-to four single family dwelling, or garage or parking area associated therewith.

COMMERCIAL / GENERAL ACCESS VEHICULAR GATE OPERATOR-CLASS II - A vehicular gate operator (or system) intended for use in a commercial location or building such as a multi-family housing unit (five or more single family units), hotels, garages, retail store, or other building servicing the general public.

INDUSTRIAL / LIMITED ACCESS VEHICULAR GATE OPERATOR-CLASS III - A vehicular gate operator (or system) intended for use in an industrial location or building such as a factory or loading dock area or other locations not intended to service the general public.

RESTRICTED ACCESS VEHICULAR GATE OPERATOR-CLASS IV - A vehicular gate operator (or system) intended for use in a guarded industrial location or building such as an airport security area or other restricted access locations not servicing the general public, in which unauthorized access is prevented via supervision by security personnel.

SYSTEM - In the context of these requirements, a system refers to a group of interacting devices intended to perform a common function.

WIRED CONTROL - A control implemented in a form of fixed physical interconnections between the control, the associated devices, and an operator to perform predetermined functions in response to input signals.

WIRELESS CONTROL - A control implemented in means other than fixed physical interconnections (such as radio waves or infrared beams) between the control, the associated devices, and an operator to perform predetermined functions in response to input signals.

INHERENT ENTRAPMENT SENSOR SYSTEM - An automatic sensor system, which senses entrapment of a solid object and is incorporated as a permanent and integral part of the operator.

ENTRAPMENT – The condition when an object is caught or held in a position that increases the risk of injury.

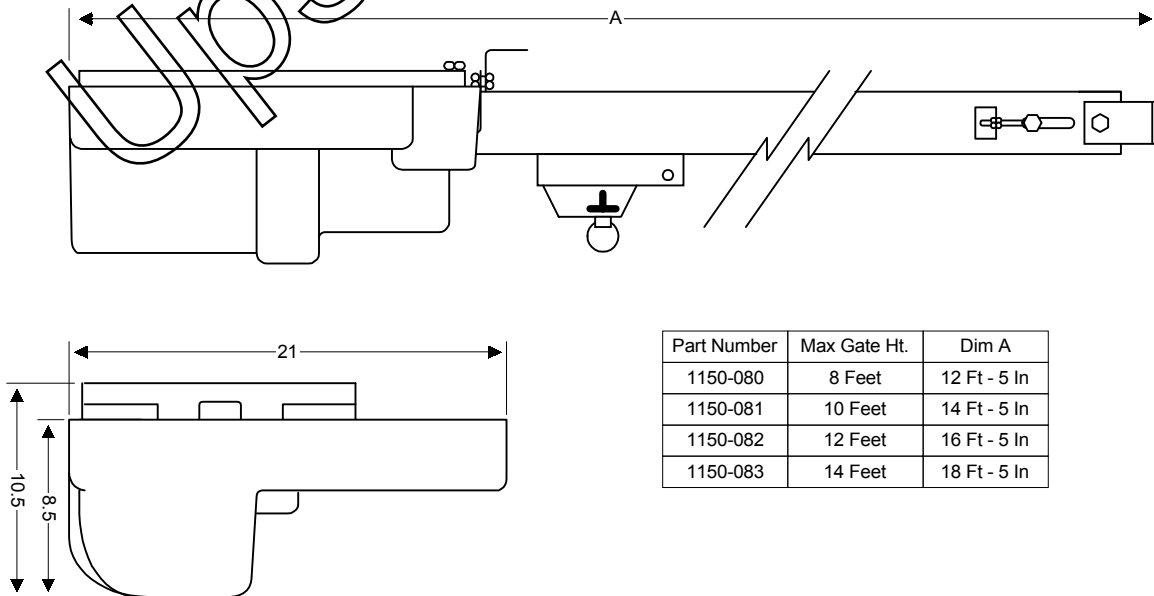
SECTION 1 - INSTALLATION

Prior to beginning the installation of the overhead gate operator, we suggest that you become familiar with the instructions, illustrations, and wiring guide-lines in this manual. This will help insure that your installation is performed in an efficient and professional manner.

The proper installation of the vehicular overhead gate operator is an extremely important and integral part of the overall access control system. Check all local building ordinances and building codes prior to installing this operator. Be sure your installation is in compliance with local codes.

1.1 SPECIFICATIONS

| | |
|------------------------|--|
| Class of Operation: | Class II, III, IV |
| Type of Gate: | Vehicular Overhead Gates Only |
| Horsepower: | 1/2 H.P. |
| Voltage / Phase: | 115 VAC Single-phase only |
| Current: | 5.4 amps (20 amp circuit breaker is acceptable) |
| Max Gate Height: | 8 to 14 Feet depending on model ordered. |
| Max Gate Length: | 25 Feet. ¹ |
| Cycles / Hr: | 60/Hr |
| Speed: | Approximately 1 Ft/Sec. |
| Entrapment Protection: | Primary – Inherent (Type A) Secondary – Provision for connection of a non-contact sensor (Type B1) and/or a contact sensor (Type B2). Secondary entrapment protection devices are not supplied with the operator and must be ordered separately. |
| Note 1: | Assumes gate and gate hardware are in good working condition and installed correctly. |



1.2 BRACKET INSTALLATION

1. Locate the center of the gate and attached the GATE BRACKET to the top rail of the gate by either welding to the gate or bolting the gate.
2. Mount the HEADER BRACKET to the header. (If the header bracket is attached to the gate operator, remove it from the end of the rails). Be sure that the center of the header bracket is located on center with the gate bracket. **Be sure that the header bracket is securely mounted to the header!**
3. The bottom of the header bracket must be a minimum of 2.5 inches above the top of the gate.

