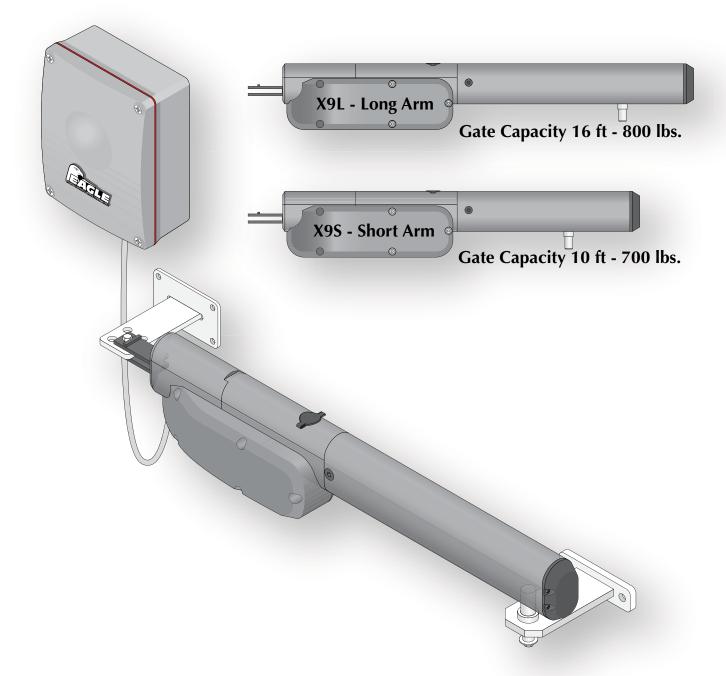


### X9S & X9L

**Swing Gate Operators** 

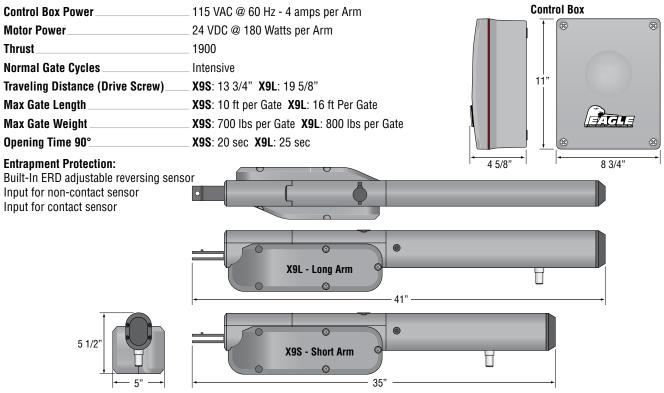


**Installation & Owners Manual** 

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### **X9 SWING GATE OPERATOR SPECIFICATIONS**



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### **SAFETY**

### **UL 325 Listings**

- 1. Install the gate operator only when:
  - a) The operator is appropriate for the construction of the gate and the usage class of the gate.
  - b) All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 6 feet (1.83 m) above the ground to prevent a 2-1/4 inch (57.2 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.
  - c) All exposed pinch points are eliminated or guarded, and
  - d) Guarding is supplied for exposed rollers.
- 2. The operator is intended for installation only on gates used for vehicles. Pedestrians must be supplied with a separate access opening. The pedestrian access opening shall be designed to promote pedestrian usage. Locate the pedestrian gate such that persons will not come in contact with the vehicular gate during the entire path of travel of the vehicular gate.
- 3. The gate must be installed in a location so that enough clearance is supplied between the gate and adjacent structures when opening and closing to reduce the risk of entrapment. Swinging gates shall not open into public access areas.
- **4.** The gate must be properly installed and work freely in both directions prior to the installation of the gate operator. Do not over-tighten the operator clutch or pressure relief valve to compensate for a damaged gate.
- **5.** For gate operators utilizing Type D protection:
  - a) The gate operator controls must be placed so that the user has full view of the gate area when the gate is not moving.
  - **b)** The placard provided marked in letters at least 1/4 in. (6.4-mm) high with the word "WARNING" and the following statement or the equivalent: "Moving Gate Has the Potential of Inflicting Injury or Death Do Not Start Gate Unless Path is Clear" shall be placed adjacent to the controls.
  - c) An automatic closing device (such as a timer, loop sensor, or similar device) shall not be employed, and
  - d) No other activation device shall be connected.
- **6.** Controls intended for user activation must be located at least six feet (6') away from any moving part of the gate and where the user is prevented from reaching over, under, around or through the gate to operate the controls. Outdoor or easily accessible controls shall have a security feature to prevent unauthorized use.
- 7. The Stop and /or Reset button must be located in the line-of-sight of the gate. Activation of the reset control shall not cause the operator to start.
- 8. A minimum of two (2) WARNING SIGNS shall be installed, one on each side of the gate where easily visible.
- 9. For gate operators utilizing a non-contact sensor in accordance with Usage Class:
  - a) See instructions on the placement of non-contact sensors for each type of application,
  - **b)** Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle trips the sensor while the gate is still moving, and
  - c) 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.
- **10.** For gate operators utilizing a contact sensor in accordance with Usage Class:
  - **a)** One or more contact sensors shall be located where the risk of entrapment or obstruction exists, such as at the leading edge, trailing edge, and post-mounted both inside and outside of a vehicular horizontal slide gate.
  - b) One or more contact sensors shall be located at the bottom edge of a vehicular vertical lift gate.
  - c) One or more contact sensors shall be located at the pinch point of a vehicular vertical pivot gate.
  - **d)** 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.
  - e) A wireless contact sensor such as one that transmits radio frequency (RF) signals to the gate operator for entrapment protection 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.
  - f) One or more contact sensors shall be located on the inside and outside leading edge of a swing gate.

    Additionally, if the bottom edge of a swing gate is greater than 6 inches (152 mm) above the ground at any point in its arc of travel, one or more contact sensors shall be located on the bottom edge.
  - g) One or more contact sensors shall be located at the bottom edge of a vertical barrier (arm).

### **UL 325 Model Classifications**

### CLASS I

Residential Vehicular Gate Operator - A vehicular gate operator (opener or system) intended for use in a home of one to four single family dwellings, or a garage or parking area associated therewith.

### **CLASS II**

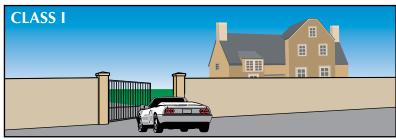
Commercial/General Access Vehicular Gate Operator - A vehicular gate operator (opener or system) intended for use in a commercial location or building such as a multi-family housing unit (five or more single family units) hotel, garages, retail store or other building servicing the general public.

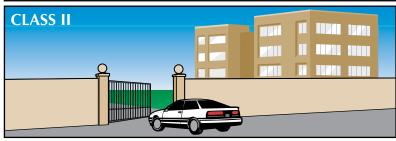
### **CLASS III**

Industrial/Limited Access Vehicular Gate Operator - A vehicular gate operator (opener or system) intended for use in a industrial location, loading dock area or other location not intended to service the general public.

### **CLASS IV**

Restricted Access Vehicular Gate Operator - A vehicular gate operator (opener or system) intended for use in a guarded industrial location or buildings such as airport security area or other restricted access locations not servicing the general public, in which unauthorized access is prevented via supervision by security personnel.









### **UL 325 Entrapment Protection**

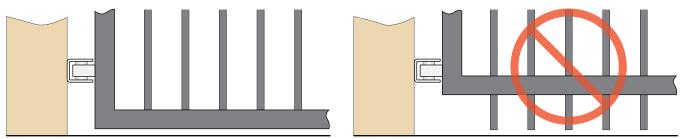
Entrapment Protection Requirements for Each Type of Operator.

Proper installation must satisfy the entrapment protection chart as shown.

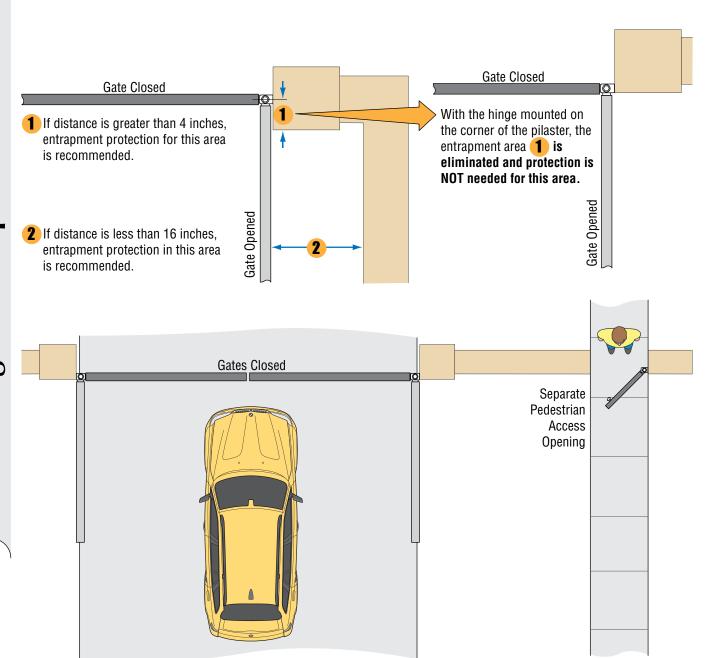
Gate Type	Entrapment Protection
Horizontal Slide Vertical Lift Vertical Pivot Gate	A, B1*, B2* or D
Swing Gate or Vertical Barrier (arm)	A, B1*, B2* C or D

- **A** Inherent (built into the gate operator) entrapment protection.
- **B1** Non-contact sensor such as photo-eye or equivalent.
- **B2** Contact sensor such as edge sensor or equivalent.
- **C** Inherent adjustable clutch or pressure relief device.
- Actuating device requiring continuous pressure to maintain gate motion.
- \* UL 325 requires that B1 and B2 means of entrapment protection must be **MONITORED**.

### **Swing Gate Recommendations**



Gates should have smooth bottom edges, with vertical bottom edged protrusions not exceeding 0.50 inches.



The operator is intended for installation ONLY on gates used for vehicles. Pedestrians should be supplied with a separate access opening. The pedestrian access opening should be designed to promote pedestrian usage. Locate the gate such that persons will not come in contact with the vehicular gate during the entire path of travel of the vehicular gate.

4

### **Important Safety Information**



### To reduce the risk of injury or death read and follow the instructions

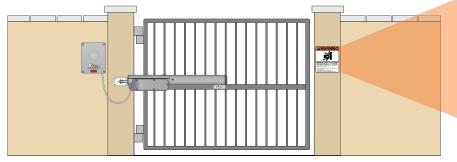
- 1. Never let children operate or play with gate controls. Keep the remote control away from children.
- 2. Always keep people and objects away from gate. NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.
- 3. Test the operator monthly. The gate MUST reverse on contact with a rigid object or stop when 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.
- 4. Use the emergency release ONLY when the gate is not moving and verify that operator power has been turned OFF.
- 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.

### **General Safety Information**



Be sure to read and follow all the Eagle Access Control Systems, Inc. and UL instructions before installing and operating any Eagle Access Control System, Inc. products. Eagle Access Control Systems, Inc. is not responsible for any improper installation procedures caused by failure to comply with local building codes.

### **Install Warning Signs**





Install warning signs on **BOTH** sides of the gate.

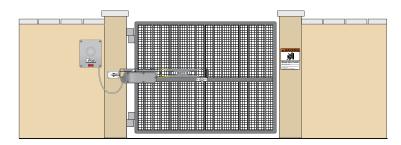
### **Installing Opening Devices**

Be sure to mount ALL gate operating devices at least six feet (6') away from any moving part of the gate. They must **NOT** be able to be operated reaching through the gate.



### **Ornamental Grill Styled Gates**

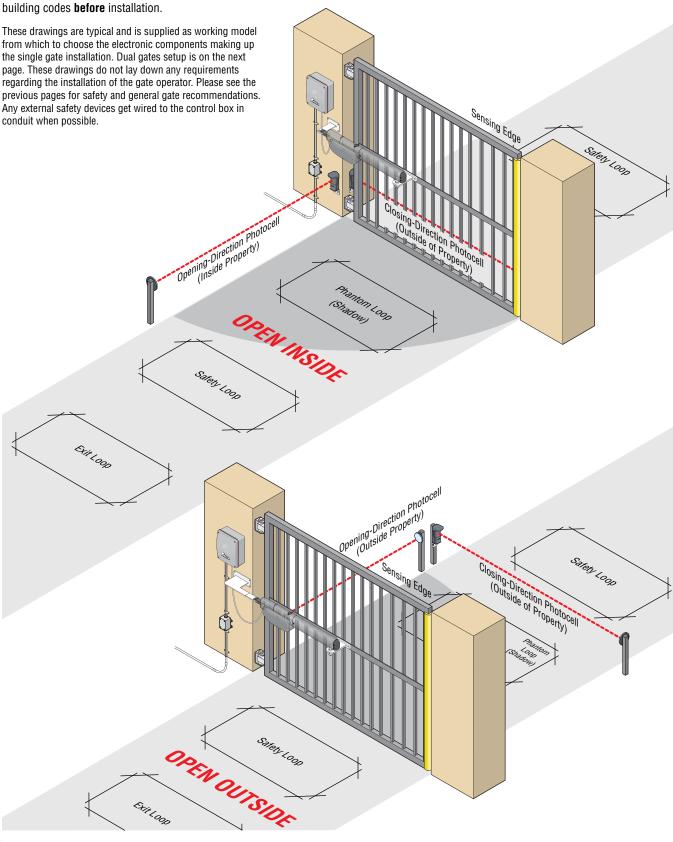
Injuries may be avoided if a mesh screen is installed on the gate. Injuries resulting from hands and feet becoming stuck in the gate or children riding on the gate while gate is moving can be greatly reduced if this "screen" or "mesh" is applied to the gate as a safety precaution.



### SAMPLE SINGLE GATE INSTALLATION SETUPS

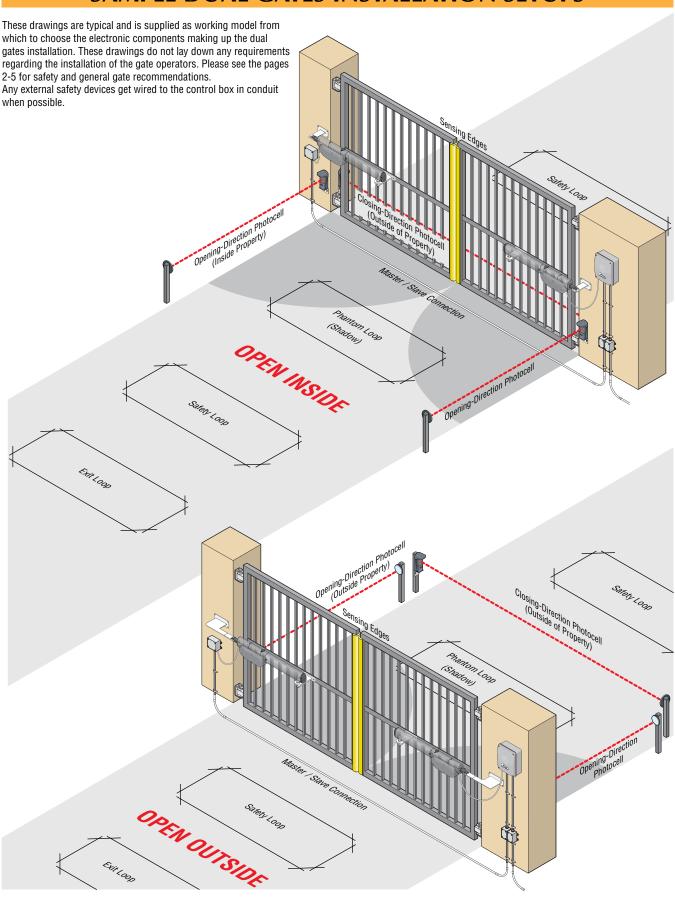
An experienced installer should perform the installation. Improper installation may result in property damage, severe injury or death. **Read the entire manual before proceeding with the installation.** 

Eagle Access Control Systems, Inc. is not responsible for researching and complying with local building codes. Be sure to check all local building codes before installation

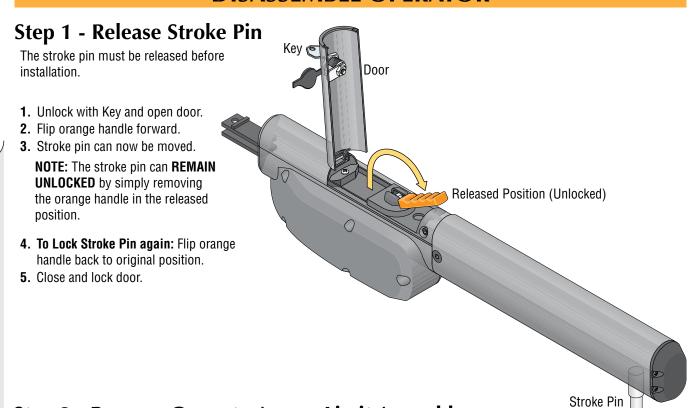


Sy Swing Rev - H

### **SAMPLE DUAL GATES INSTALLATION SETUPS**

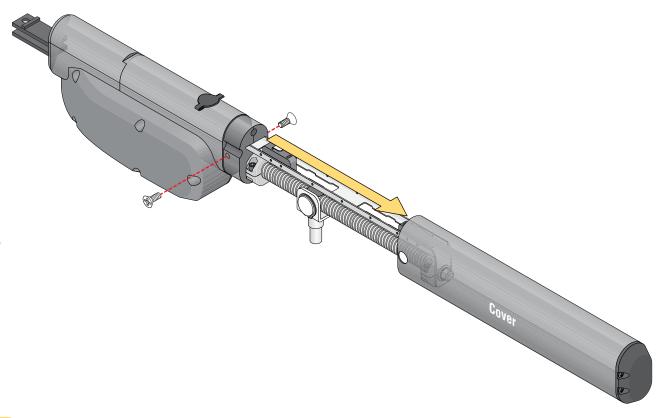


### **DISASSEMBLE OPERATOR**

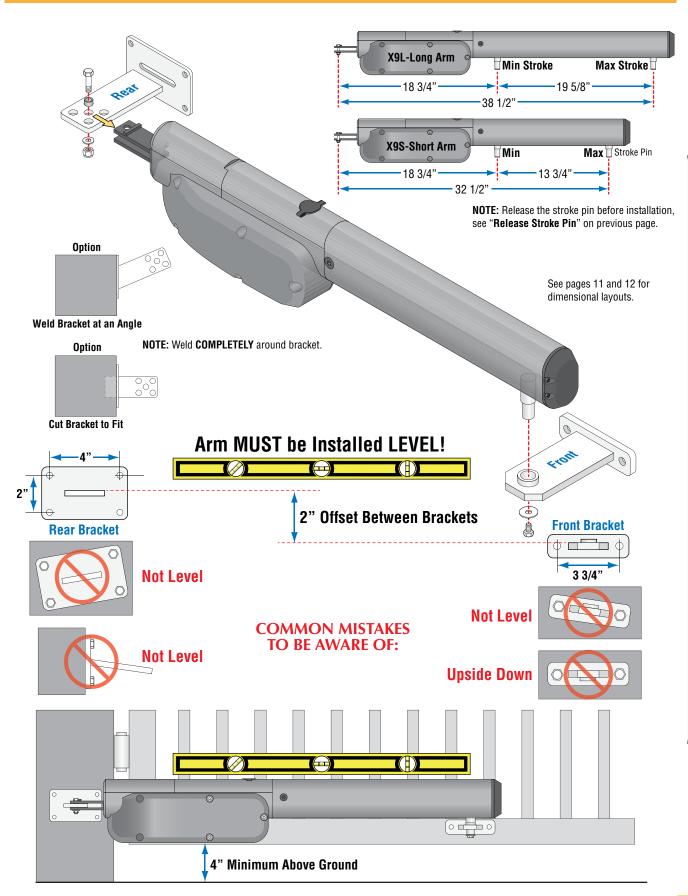


### **Step 2 - Remove Cover to Access Limit Assembly**

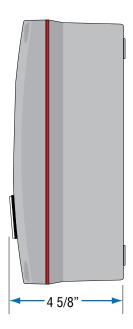
- 1. Remove two 5mm allen screws
- 2. Slide cover off.



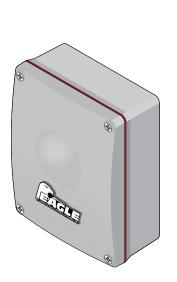
### **MOUNT ARM**

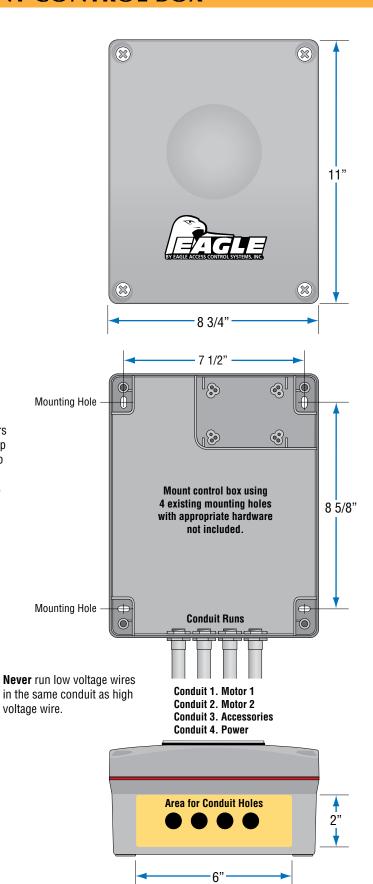


### **MOUNT CONTROL BOX**



Mount the control box as near as possible to the actuator arm. Keep the box high enough above the ground to avoid landscape sprinklers and such. Avoid drilling holes in the side or top of the box. Seal any holes made in box to keep out moisture. The antenna reception for the radio receiver gets better the higher the box is above the ground.



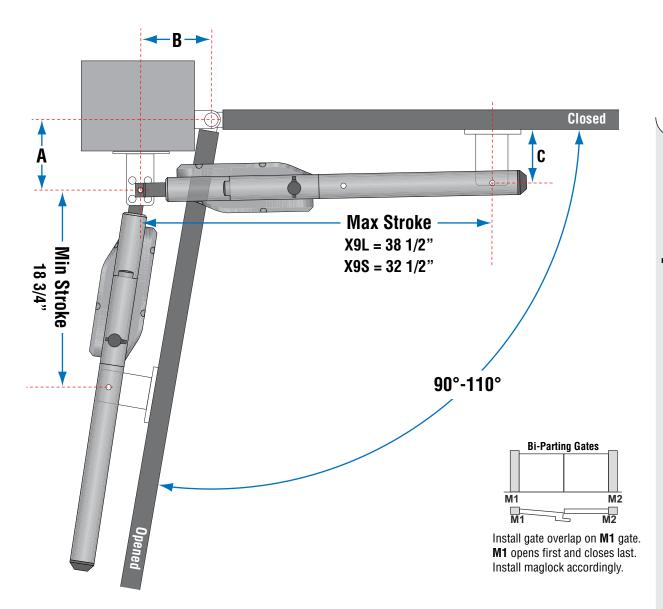


10 X9 Swing Rev - H

voltage wire.

# Open INSIDE Dimensions

### **OPEN INSIDE MOUNTING DIMENSIONS**



X9L-LONG Arm: MAX 16 ft per Gate X9S-SHORT Arm: MAX 10 ft per Gate

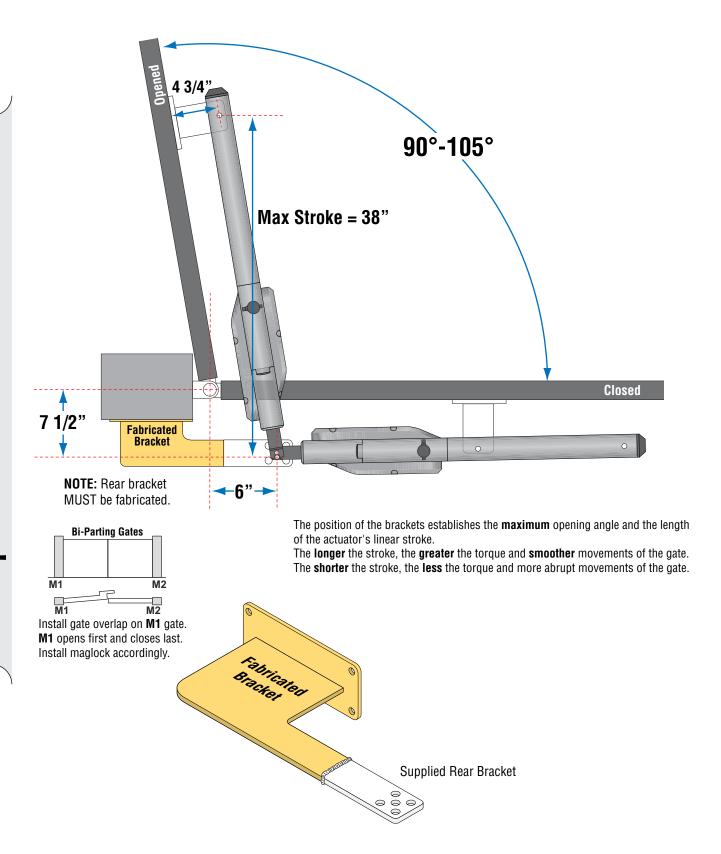
(°)	A"	В"	C"
90	6 3/4	7	4 3/4
90	7 1/4	7	4 3/4
90	8	5 1/4	4 3/4
110	6 3/4	6 3/4	4 3/4
110	5 1/2	6	4 3/4
110	6	6	4 3/4

The position of the brackets establishes the **maximum** opening angle and the length of the actuator's linear stroke.

The **longer** the stroke, the **greater** the torque and **smoother** movements of the gate. The **shorter** the stroke, the **less** the torque and more abrupt movements of the gate.

### **OPEN OUTSIDE MOUNTING DIMENSIONS**

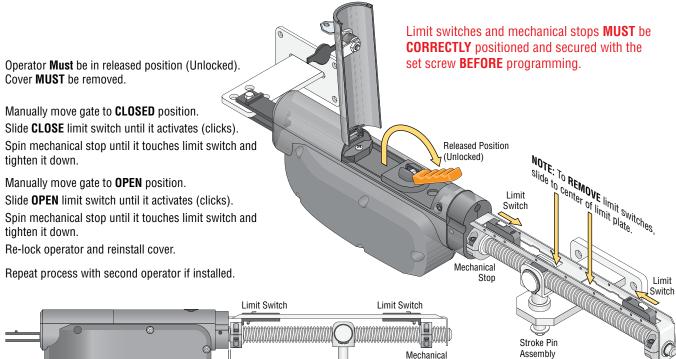
### Only to be used with the X9L - Long Arm



Mechanical Stop

13

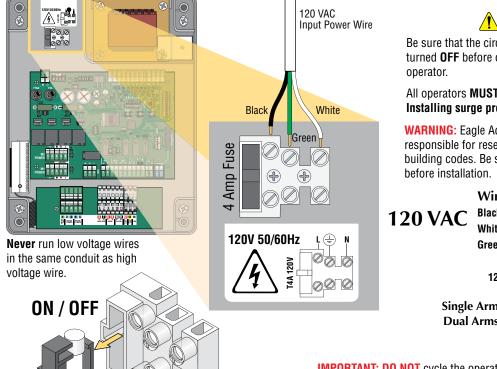




### **120 VAC INPUT POWER CONNECTION**

1/8" min gap for mechanical stop

Stop



Pulling the 4 Amp fuse will shut-off power.

### **!** CAUTION

Be sure that the circuit breaker for the input power is turned **OFF** before connecting the input power to the operator.

All operators **MUST** be properly grounded. **Installing surge protection is recommended.** 

WARNING: Eagle Access Control Systems, Inc. is not responsible for researching and complying with local building codes. Be sure to check all local building codes before installation

### Wire Color Description

Black - 120 VAC input power

White - Neutral input

Green - Ground input

(from an approved grounding method)

### 120 VAC Input Power Wire Runs Maximums

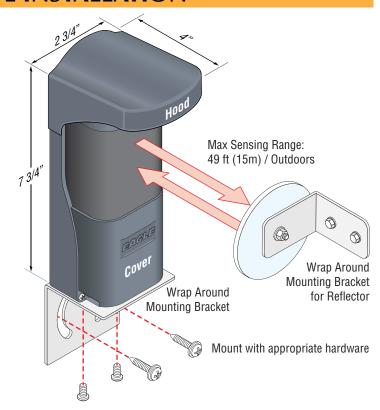
			10 AWG	
Single Arm	400 ft	600 ft	1200 ft	2000 ft
<b>Dual Arms</b>	300 ft	500 ft	1000 ft	1700 ft

**IMPORTANT: DO NOT** cycle the operator **before** physically setting the limit switches (see above) **AND** programming has been completed (see pages 23-24). Damage or injury could occur.

### PHOTO EYE INSTALLATION

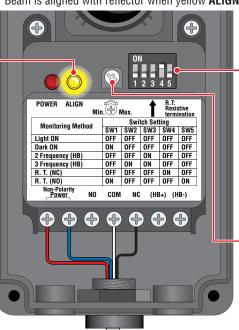


Disassembly



### **Beam Adjustment**

Beam is aligned with reflector when yellow ALIGN LED turns ON.



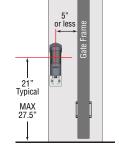
### **Typical Vehicular Gate Locations**

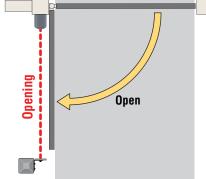
Side View Top View

### SW 1 = **OFF** SW 2 = **OFF** SW 3 = **OFF**

**DIP-Switches** 

 $SW 4 = \mathbf{0N}$  $SW 5 = \mathbf{0FF}$ 



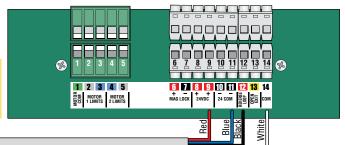


Closing

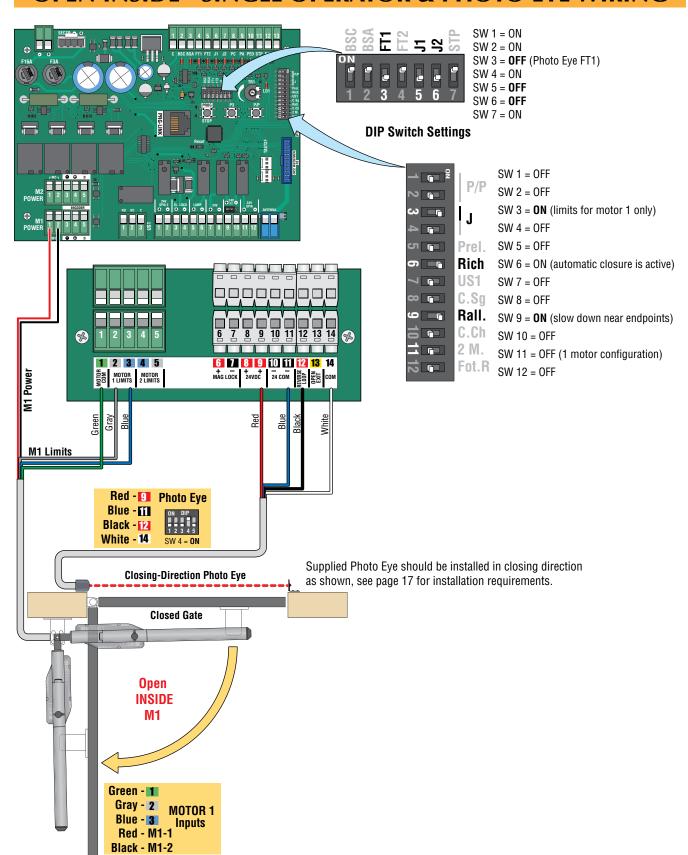
### Sensing Range Adjustment

Turning Clockwise: Range becomes longer.
Turning Counter-Clockwise: Range becomes shorter.

Red - 9 Blue - ff1 Black - 12 White - 14



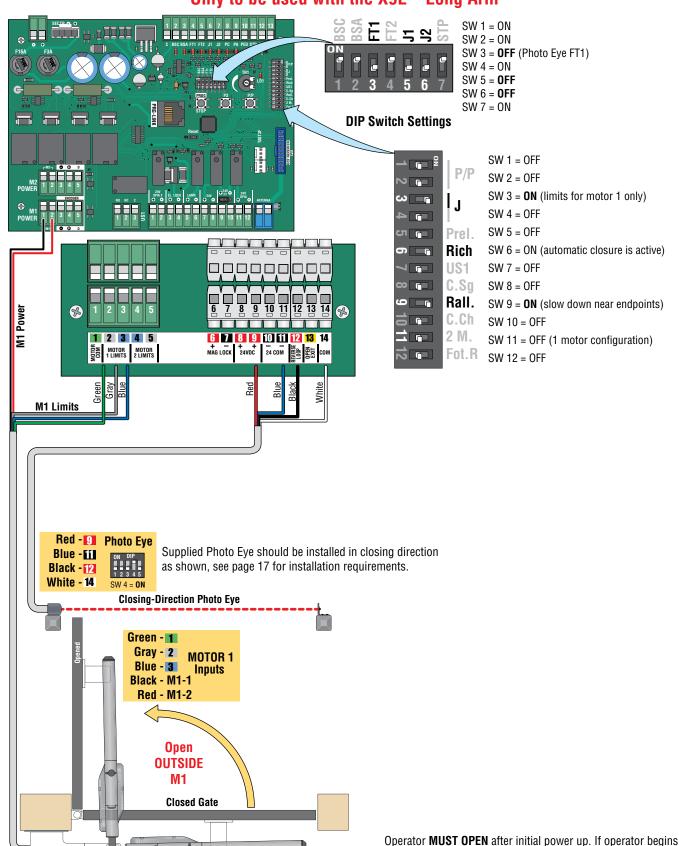
### **OPEN INSIDE - SINGLE OPERATOR & PHOTO EYE WIRING**



Operator **MUST OPEN** after initial power up. If operator begins to close, shut-off power and reverse **Red** and **Black** wires.

### **OPEN OUTSIDE - SINGLE OPERATOR & PHOTO EYE WIRING**

### Only to be used with the X9L - Long Arm

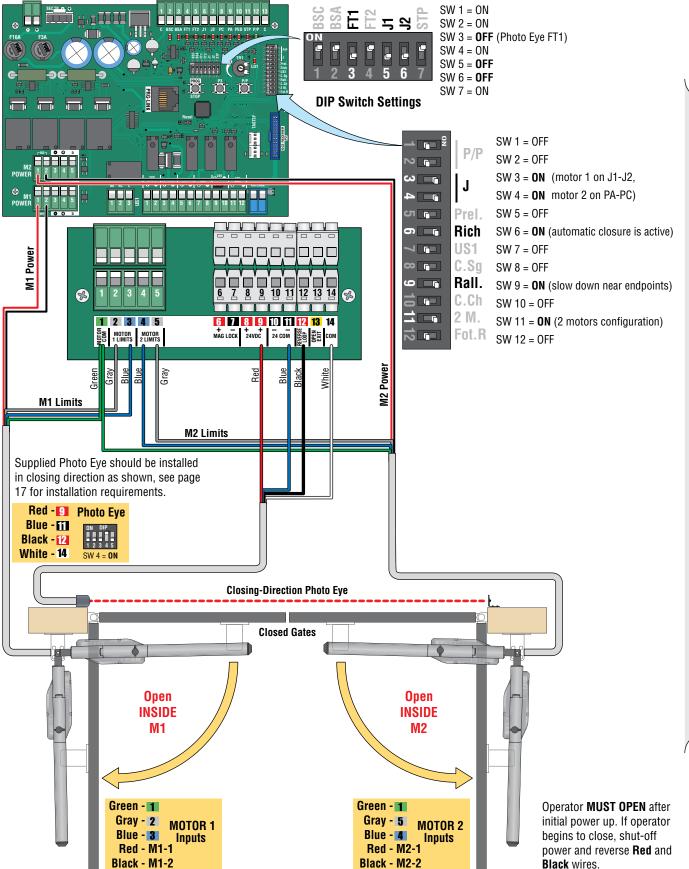


X9 Swing Rev - H

to close, shut-off power and reverse Red and Black wires.

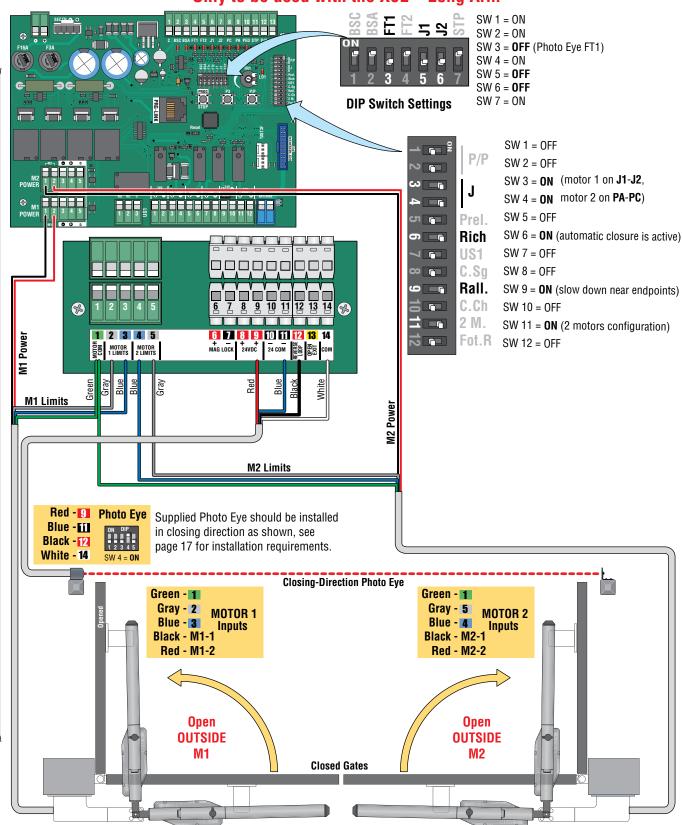
# pen INSIDE - Dual Operators Wiring

### **OPEN INSIDE - DUAL OPERATORS & PHOTO EYE WIRING**



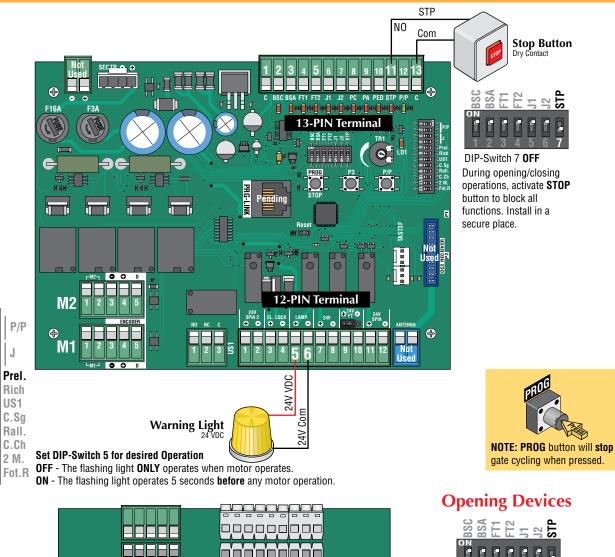
### **OPEN OUTSIDE - DUAL OPERATORS & PHOTO EYE WIRING**

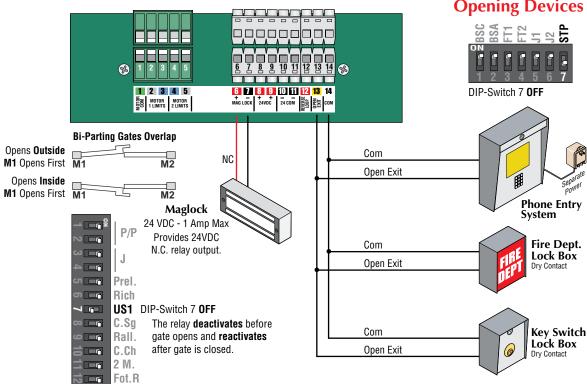
### Only to be used with the X9L - Long Arm



Operator **MUST OPEN** after initial power up. If operator begins to close, shut-off power and reverse **Red** and **Black** wires.

### WIRING ACCESSORIES

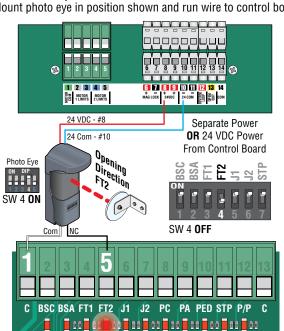


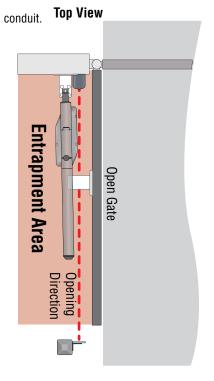


### ADVANCED ACCESSORY CONNECTION

### **Used with the 13-Pin Terminal - Entrapment Protection**



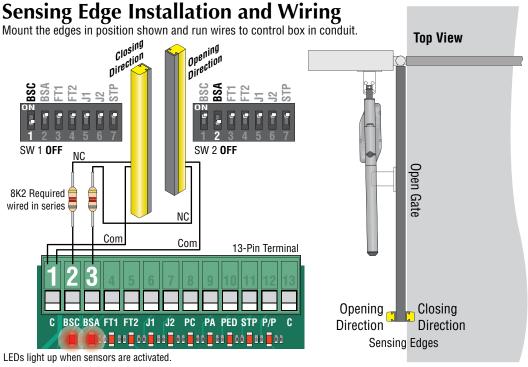






13-Pin Terminal

LED lights up when sensor is activated.

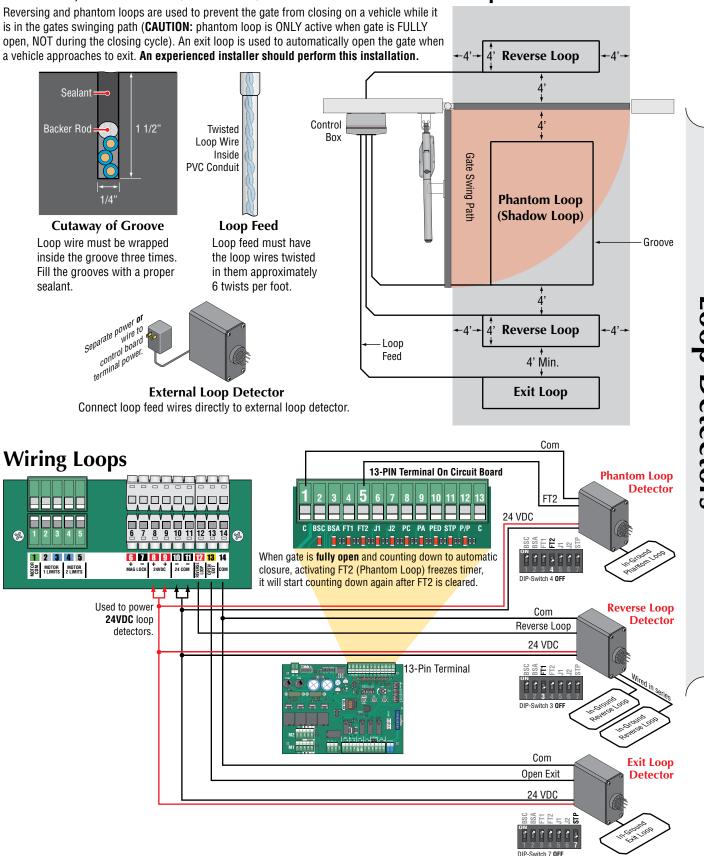




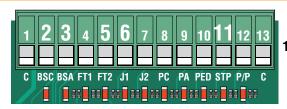
20

### **LOOP DETECTORS**

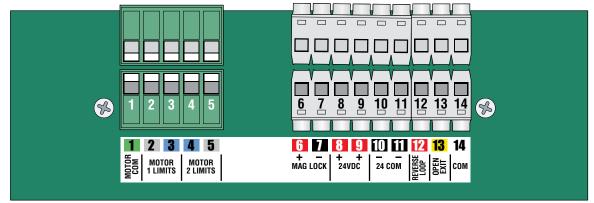
### Reverse, Phantom (Shadow) and Exit In-Ground Loop Installation



### **DIP-SWITCH DESCRIPTIONS**

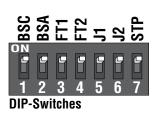


13-PIN Terminal On Circuit Board



Turn DIP-switch **OFF** for any **CONNECTED** device will **INCLUDE** them in Programming. Turning DIP-switch **ON** will **EXCLUDE** the corresponding terminal input.

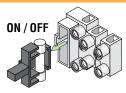
Switch	Set	Description		
BSC #1	OFF	Closing sensing edge installed on terminal #2-BSC.		
Β30 π1	ON	Excludes the closing sensing edge input on terminal #2-BSC. NOTE: Terminal #2-BSC must remain disconnected.		
BSA #2	OFF	Opening sensing edge installed on terminal #3-BSA.		
D3A π2	ON	Excludes the opening sensing edge input on terminal #3-BSA.  NOTE: Terminal #3-BSA must remain disconnected.		
FT1 #3	OFF	CLOSING Photocell has been installed on terminals #4-FT1 & 1/2		
12	ON	Excludes the closing photocell input on terminals #4-FT1 & 12 NOTE: Terminals #4-FT1 & 12 must remain disconnected.		
FT2 #4	OFF	Photocell has been installed on terminal #5-FT2.		
112 #4	ON	Excludes the photocell input on terminal #5-FT2.  NOTE: Terminal #5-FT2 must remain disconnected.		
J1 #5	OFF	Device has been installed on terminals #6-J1 & 2		
2	ON	Excludes the J1 input on terminals #6-J1 & 2 NOTE: Terminals #6-J1 & 2 must remain disconnected.		
J2 #6	OFF	Device has been installed on terminals #7-J2 & 3		
	ON	Excludes the J2 input on terminals #4-J2 & 3 MOTE: Terminals #7-J2 & 3 must remain disconnected.		
CTD #7	OFF	Stop Button has been installed on terminal #11-STP.		
STP #7	ON	Excludes the Stop Button input on terminal #11-STP. NOTE: Terminal #11-STP must remain disconnected.		



### **DIP-SWITCH DESCRIPTIONS**

ST [] Prel. Rich 6 7 US1 C.Sq 8 Rall. C.Ch 2 M. Fot.R After changing DIP-switches, changes will take effect after: **ON / OFF** 

- Resetting the ECU (Momentarily short reset pins to RESET)
- Shut power OFF and back ON again.
- At the end of a complete gate cycle the new settings will take effect.







	ch	vviii ti	and criteti.				will shut-off power.	Momentarily short pins to reset control board.
IS1 S.Sg			Open-Stop-0	Close OFF OFF			<b>3</b> input <b>stops</b> gate, activa <b>3</b> input <b>stops</b> gate, activa	
	II. Ch	Open Input	Open-Clo	se ON OFF			3 input stops gate, then of input stops gate, then of	
	/I. t.R	(P/P)	Always Op (House Compl				<b>3</b> input has NO effect. <b>3</b> input <b>stops</b> gate, then <b>c</b>	opens.
0			Open-Clo (NO reversa during Openin		again <b>closes</b> gate		<ul><li>input has NO effect. Aff</li><li>input stops gate, then of</li></ul>	
	J1=Tir J2=FT		OFF 4 C		•		s opened and opens it who ng opening and forces clos	
<i>!</i>		CA M1 CC M1	ON STEP	Stops <b>only</b> motor <b>M</b> *	1 with electric trav	<b>el limits</b> . Us	e N.C. contacts (Single O	perator)
e		CA M1 CA M2	3 TO STATE OF THE	Both M1 and M2 mo	tors are stopped u	sing <b>electric</b>	travel limits. Use N.C. co	ontacts (Dual Operators)
		CA M1 CC M1	ON w e	For installations with	4 travel limits. Co	nnect the tra	vel limits of motor <b>M1</b> to	the inputs <b>2</b> and <b>3</b> .

	J2=FT 3	OFF 4 TO	J2=third photocell input (FT3); intervenes only during opening and forces closing. Use N.C. contacts.		
Jolly	J1 = FCA M1 ON 22 = FCC M1 OFF		Stops only motor M1 with electric travel limits. Use N.C. contacts (Single Operator)		
Input Mode (J)			Both M1 and M2 motors are stopped using electric travel limits. Use N.C. contacts (Dual Operators)		
(0)	J1 = FCA M1 J2 = FCC M1 ON PA = FCA M2 ON PC = FCC M2		For installations with 4 travel limits. Connect the travel limits of motor M1 to the inputs 2 and 3. Connect the travel limits of motor M2 to the inputs 4 and 5. Use N.C. contacts		
Pr	reflash	OFF 5 F	Excluded - The flashing light operates together with the motor.		
(1	Prel.)	0N 2 CO	Inserted - The flashing light operates 5 seconds before any operation.		
	Closure		Excluded - After one complete opening, the control unit only closes again with a manual control.		
	Timer Rich)	ON SIN	<b>Inserted</b> - After one complete opening, the control unit closes <b>automatically</b> after the programmed pause time (Auto-Close Timer).		
	Output C	OFF ~ D S	<b>Dry Contact</b> - This contact gives information regarding the status of the gate. The relay activates as the gate begins to open and deactivates only after complete closing has been achieved.		
(L	JS1) NO	ON 7 TO	CH 2 (OC2) - Second radio channel output. If you don't use this function the second radio channel will activate pedestrian opening. (Not Used)		
Gate Release		OFF ∞ 🕞	Excluded - Function excluded.		
	Jolt (C. Sg)		Inserted - The gate release jolt is needed to release the electric lock. The gate with M1 installed will carry out a brief closing movement before starting the opening cycle.		
Slo	wdown	OFF GETS	Excluded - There is NO slowdown in the last part of travel.		
(	(Rall)	ON Series	Inserted - With the slowdown function connected, the motor halves its speed at end of gate cycle.		
	er Closing Jolt	OFF The second	Excluded - Increased power closing is NOT carried out.		
(C.Ch)		ON STORY	Inserted - The end of closing cycle will increase to full power on motor M1.		
	Motors	OFF Top	1 Motor - Only M1 motor output is enabled. (Single Operator)		
(	(2 M)	ON TES	2 Motors - Enables both M1 and M2 motor outputs. (Dual Operator)		
	osing after otocells	OFF No.	Excluded - Function excluded.		
	Fot.R)	ON Z CON	Inserted - One Pass activation of a photocell reduces the pause time from what is was to ONLY 2 sec.		

### **PROGRAMMING & ADJUSTMENTS**

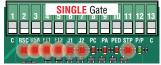
### **Program Travel Distance and Pause Time to Close Gate(s)**

Limit switches and mechanical stops MUST be CORRECTLY positioned **BEFORE** programming either **SINGLE** or **BI-PARTING** gates on next page.

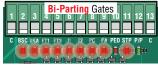
DIP-Switch 9-Rall. ON DURING programming: Self-learning cycle that slows down after 5 SEC so it can find the mechanical travel limit safely. **Rall.** Use this setting for longer and/or heavier gate.

DIP-Switch 9-Rall. OFF DURING programming: Rapid mechanical travel limit detection without slow down.

DIP-Switch 11-2 M OFF for SINGLE Gate. DIP-Switch 11-2 M ON for Bi-Parting Gates.



BSC, BSA, FT1, FT2, J1, J2 and STP MUST be LIT



BSC, BSA, FT1, FT2, J1, J2, PC, PA and STP MUST be LIT

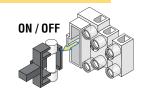
**BEFORE** beginning programming, check the correct DIP-Switch settings and connections by observing the leds:  $\overrightarrow{-}$ 

OPTIONAL Slow Down programming: Not required to complete programming. Typically used with uneven opening, longer or heavier gates.

DIP-Switch 9 set to **ON** only **AFTER** programming complete. The **OPTIONAL** programmed slow down times will be enabled.

### **SINGLE Gate Programming**

Shut-off the power. **Manually release** the operator and move to an almost fully open position. Re-lock operator and turn power back **ON**.



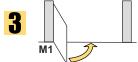
Pulling the 4 Amp fuse will shut-off power.



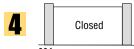
Almost full

open position

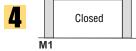
Hold down the PROG button for at least 3 seconds until led LD1 lights up. "Programming mode" has been activated.



Press the P/P button. The gate should begin to CLOSE, if it opens instead, shut-off the power, reverse motor M1 Red and Black wires and start again.

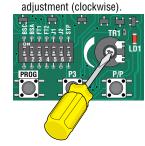


When gate has closed it will stop and start opening automatically.



When the gate has **opened completely** (reaching the mechanical stop), PAUSE TIME memorization will start automatically.

**NOTE:** If automatic reclosing pause is not desired you may press P/P button immediately.

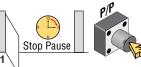


**NOTE:** If the operator stops before reaching the travel limit, decrease the TR1 reversing sensitivity

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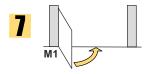
M1

5



Start Pause

Once the desired PAUSE TIME has elapsed, Press P/P button.



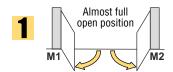
Gate will begin to close.



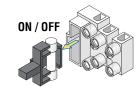
When the gate has closed completely, the motor will stop, led LD1 will turn OFF and programming mode ends.

### **BI-PARTING Gates Programming**

See "Programming Travel Distance and Pause Time to Close Gate(s)" statements about DIP-Swich settings etc. on previous page BEFORE programming Bi-Parting gates.



Shut-off the power and **Manually release** the gate leaves and move them to an **almost fully open** position. Re-lock operator(s) and turn power back **ON**.



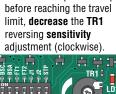
Pulling the 4 Amp fuse will shut-off power.



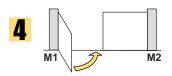
Hold down the **PROG** button for at least 3 seconds until led **LD1** lights up. "**Programming mode**" has been activated.



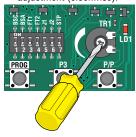
Press the **P/P** button. The gate with **M2 Operator** should begin to **CLOSE**. If it opens instead, **shut-off the power**, reverse **motor M2** Red and Black wires and start again.



NOTE: If the operator stops

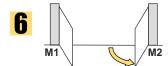


When gate leaf with **M2 Operator** has completely closed it will **stop** and **M1 Operator** will begin to **close**. If it opens instead, **shut-off the power**, reverse **motor M1** Red and Black wires and start again.

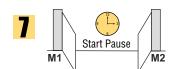


**5** M1 M2

When the gate leaf with **M1 Operator** has completely **closed** it will stop and start to **open automatically**.



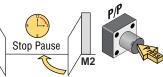
When the gate with M1 Operator completely opens, M2 Operator will begin to open.



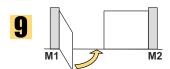
When the gate with **M2 Operator** has **opened completely** (reaching the mechanical stop), **PAUSE TIME** memorization will start **automatically**.

NOTE: If automatic reclosing is not being used you may press P/P button immediately.





Once the desired PAUSE TIME has elapsed, Press P/P button and M2 Operator will begin to close.



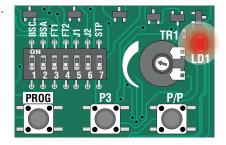
When the gate with M2 Operator completely closes, M1 Operator will begin to close.



When the gate with **M1 Operator** has **closed completely**, the motor will stop, led **LD1** will **turn OFF** and programming mode ends.

### MODIFY PROGRAMMED PAUSE TIME TO CLOSE GATE

This procedure allows you to modify the pause time set during previous programming procedure. This operation must be carried out with the gate **CLOSED**.



Press the **PROG** button and hold it down until the **Led LD1** lights up and remains lit.

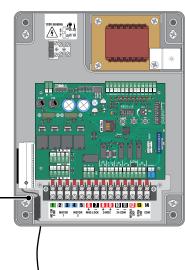
Press the **PROG** button **again**, **LD1** will start to **flash** and start to memorize the pause time.

Once the desired pause time has elapsed, press the PROG button again. LD1 will turn off and the procedure will terminate.

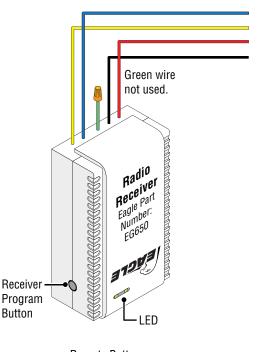
### LEARN REMOTE BUTTON

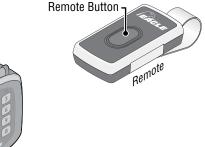
### **LEARN Remote Button**

- 1. Press and release button on the receiver. LED will turn red.
- 2. Press button on remote twice and the LED will flash and turn back to green.
- 3. Repeat steps for other desired remote buttons.
- **4.** To delete all remotes, hold the receiver program button for 8 seconds.
- **5.** The EG650 receiver has a maximum capacity of 30 remotes. **Optional:** EG652 receiver has a maximum capacity of 300 remotes.



Leave antenna wire coiled up inside box for limited range or run antenna through a hole in the bottom of box to increase wireless range.





**Eagle Wireless Keypad** 

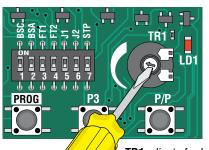
Eagle Part Number: EG654

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### **ADJUST REVERSE SENSOR**

Carry out the impact test and adjust the motor force by rotating the trimmer (TR1).

If this is not sufficient, we advise you to install a rubber protective edge at the head of the gate so as to soften the impact. If you have adjusted the sensitivity setting and added a rubber profile to the head of the gate and you are still unable to satisfy the standards in force, you will need to add other safety devices such as a sensitive safety edge to the moving part of the gate.



IMPORTANT: The level of sensitivity has to do with the weight of the gate and the condition of the installation. A heavier gate will require **LESS** sensitivity and a lighter gate will require **MORE** sensitivity.

# NOTE: PROG button will stop gate cycling when pressed.

### When adjusting the sensors sensitivity:

**T00** sensitive - If the gate stops or reverses by itself.

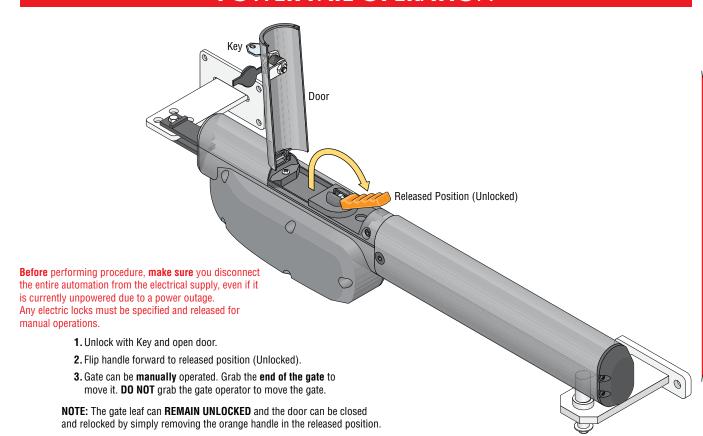
**NOT** sensitive enough - If the gate strikes an object and does **NOT** stop or reverse.

**TR1** adjusts for both the **OPENING** direction and **CLOSING** direction of the gate. **Both** directions **MUST** be adjusted. Adjustment must be made so that the gate stops and reverses when meeting an obstruction.

Proper function of reverse sensor:

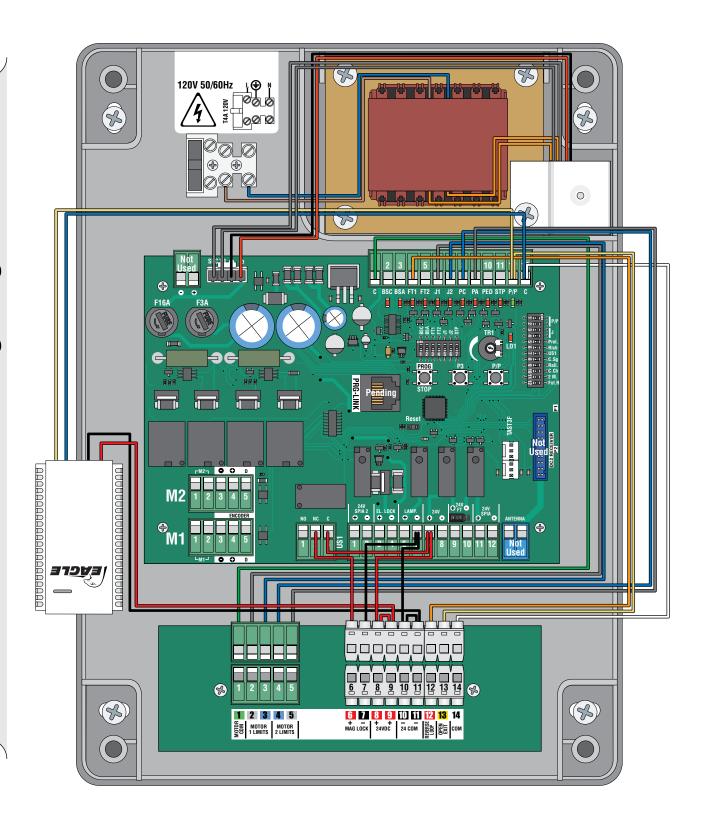
When meeting an obstruction in the **CLOSING** direction, the gate will **STOP**, reverse direction and return to the **FULL OPEN** position. When meeting an obstruction in the **OPENING** direction, the gate will **STOP** and reverse its direction and **stop again** after 4-6 inches.

### **POWER FAIL OPERATION**

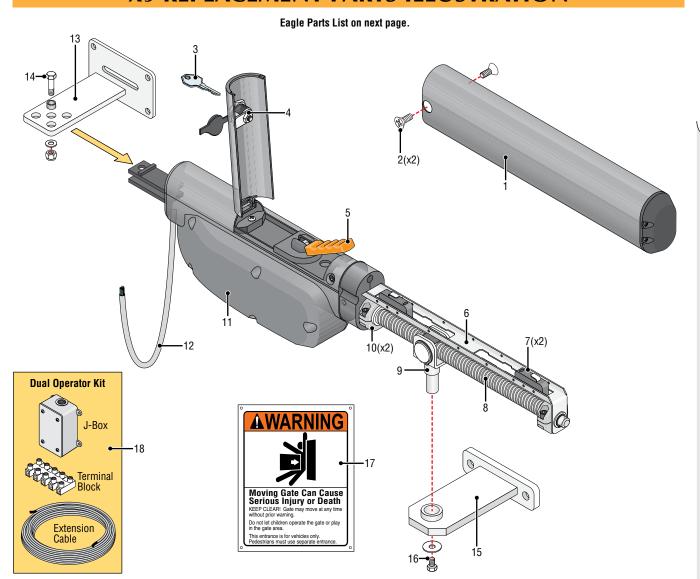


- 4. To Lock Operator again: Flip orange handle back to original position.
- **5.** Close and lock door. Operator is ready for normal operation again.

### **CONTROL BOX WIRING DIAGRAM**

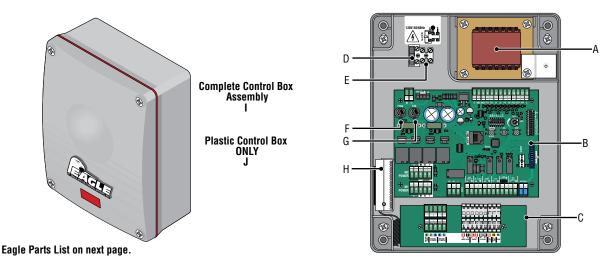


### **X9 REPLACEMENT PARTS ILLUSTRATION**



### **CONTROL BOX REPLACEMENT PARTS ILLUSTRATION**

Eagle Parts List on next page.



### **X9 REPLACEMENT PARTS LIST**

Item	X9-Number	Part Description
1	X9002	X9 Operator Cover (Removable)
2	X9004	X9 Cover Bolt (x2)
3	X9006	X9 Key
4	X9008	X9 Lock
5	X9010	X9 Manual Release Handle
6	X9012	X9 Limit Plate
7	X9014	X9 Limit Switch (x2)
8	X9016	X9 Stroke Screw Shaft
9	X9018	X9 Stroke Pin Assembly
10	X9020	X9 Mechanical Stop (x2)
11	X9022	X9 Motor Assembly / Motor Housing
12	X9024	X9 Motor Cable
13	X9026	X9 Rear Bracket
14	X9028	X9 Rear Bracket Securing Bolt Assembly
15	X9030	X9 Front Bracket
16	X9032	X9 Front Bracket Securing Bolt Assembly
17	X9034	Warning Sign
18	X9035	Dual Operator Kit

### **CONTROL BOX REPLACEMENT PARTS LIST**

Item	X9-Number	Part Description
Α	X9036	Step-Down Transformer
В	X9038	X9 Control Board
С	X9040	14-PIN Terminal Board
D	X9042	T4 Amp Fuse
E	X9044	Input Power Terminal On/Off Switch
F	X9046	F16 Amp Fuse
G	X9048	F3 Amp Fuse
Н	X9050	Eagle Transmitter
I	X9048	Control Box Assembly (Complete)
J	X9048	Plastic Control Box ONLY

If you are uncertain about a specific part you may need, please call us for assistance:

1-800-708-8848



## X9S & X9L Swing Gate Operators

### www.eagleoperators.com

Toll Free: 1-800-708-8848 Phone: (818) 837-7900 Fax: (818) 837-7911

Eagle Access Control Systems, Inc. 12953 Foothill Blvd. Sylmar, Ca 91342