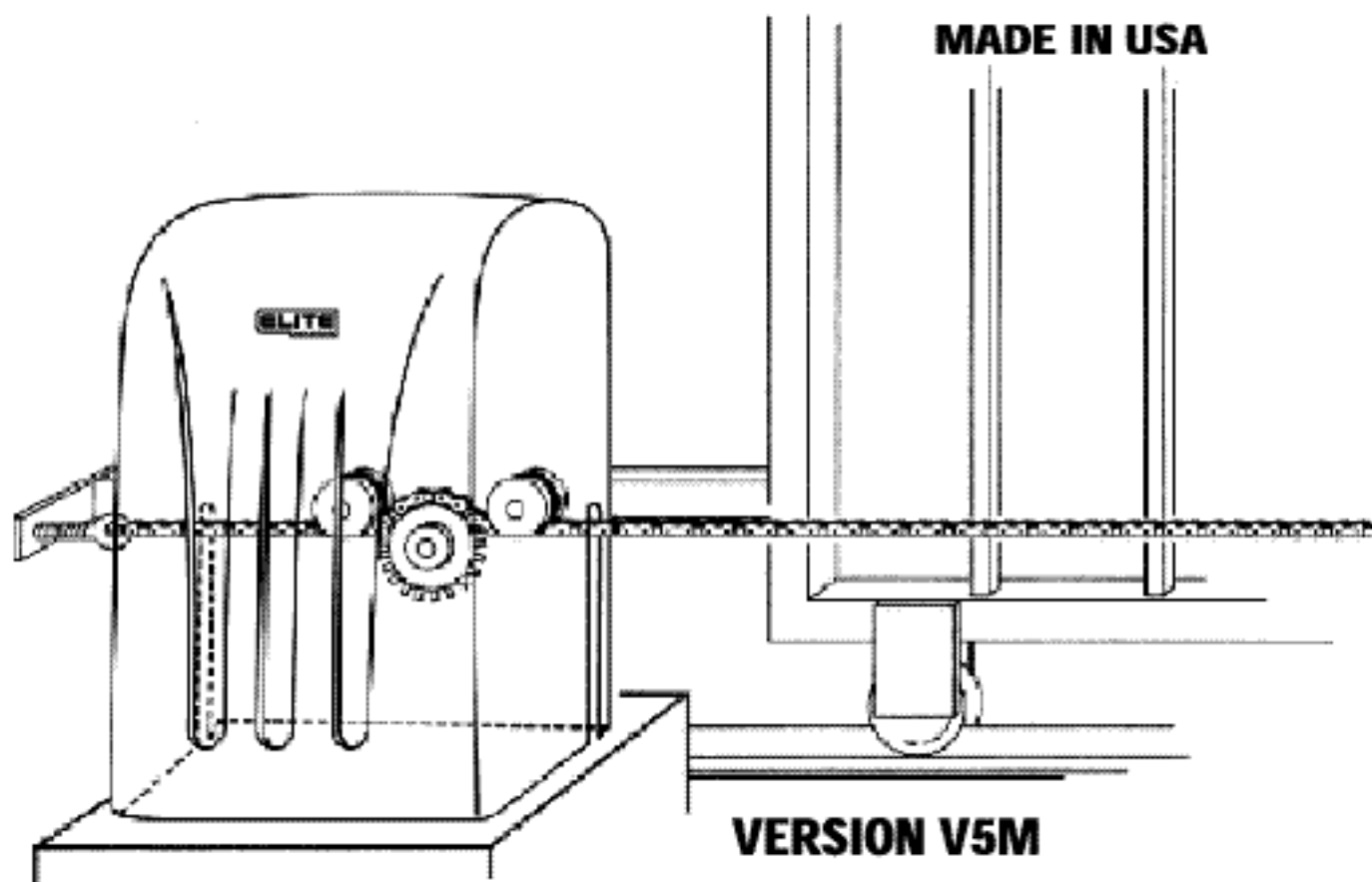


INSTALLATION INSTRUCTION MANUAL

ROBO SLIDE

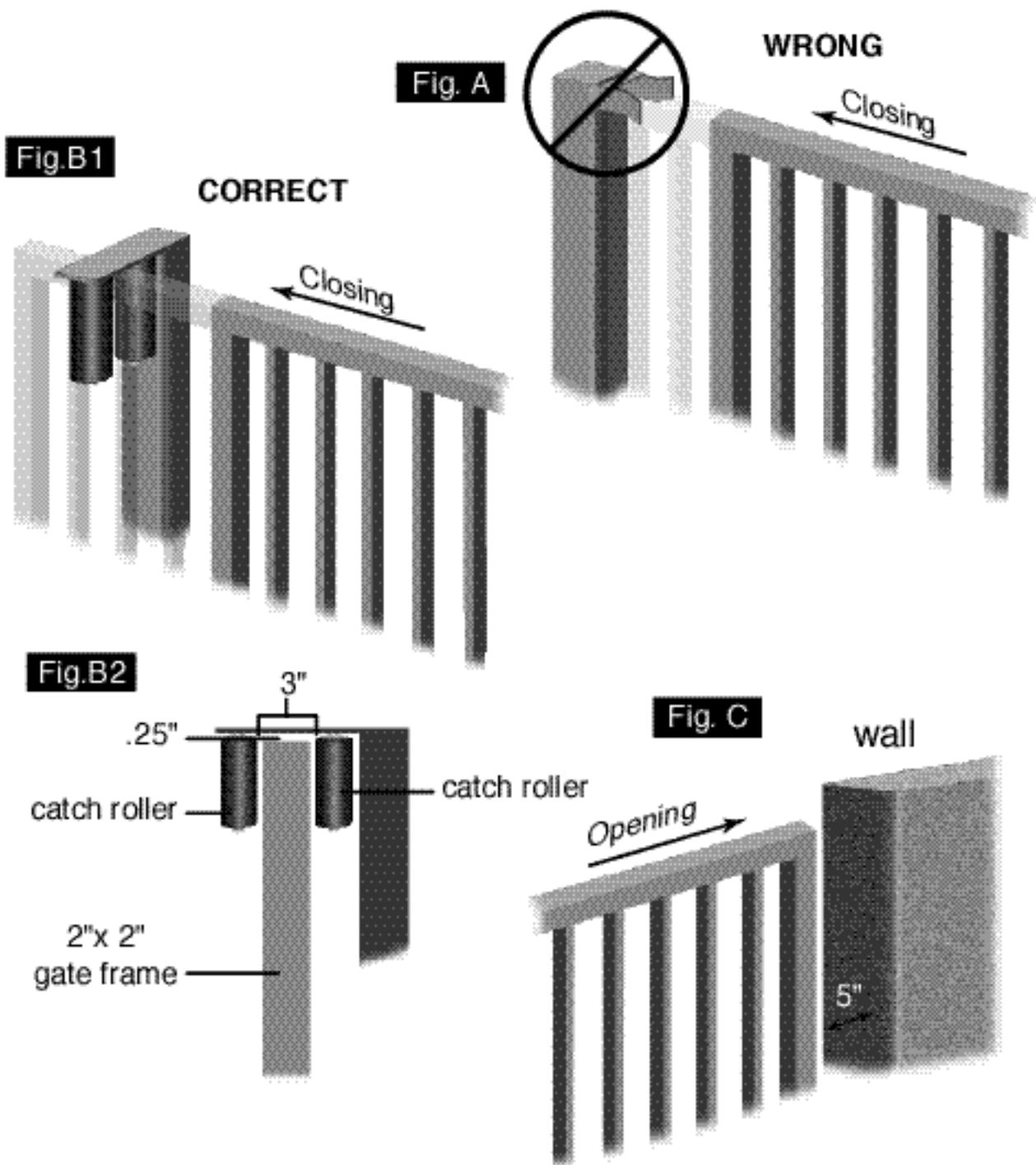
Residential Slide Gate Operator



ELITE[™]
ACCESS SYSTEMS INC

IMPORTANT NOTICE

Because the coasting distance may vary due to changes in temperature, Elite does NOT recommend the installation of a stop or catch post in front of the gate's path as shown in Fig. A. To do so will cause the gate to hit the post in certain instances. Elite only recommends installation of catch rollers on the side of a catch post with a minimal distance of three inches between the rollers as shown in Fig. B1 & B2. Also when fully open the end of the sliding gate must stop at least five inches from any wall or other object as shown in Fig. C.



READ ENTIRE OWNERS MANUAL BEFORE INSTALLATION

MODEL:

ROBO SLIDE™

INSTRUCTION / OWNERS MANUAL - ROBO SLIDE

THIS GATE OPERATOR IS DESIGNED FOR SINGLE HOME USE APPLICATION.

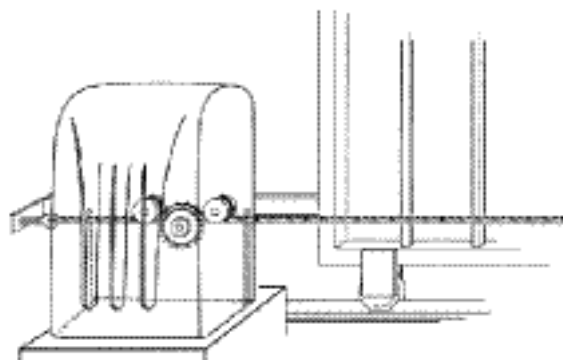
CAUTION: DO NOT INSTALL ON APARTMENT OR CONDOMINIUM APPLICATION.



WARNINGS AND PRECAUTIONS

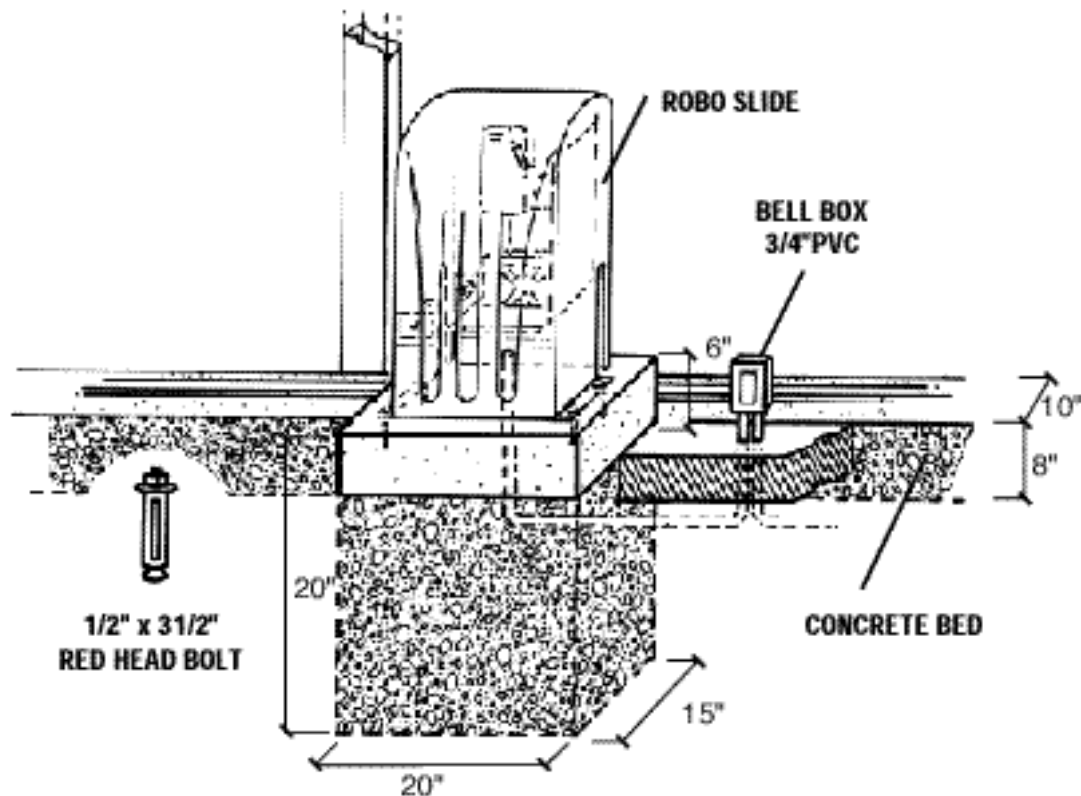
1. Do **not tighten chain** too tight
2. **Use proper type of wheels - only 4" steel wheels** w/ high speed ball bearings
3. Do not use any type of 12V transformer - use only 18VAC 2.0 amps transformer sold by Elite Access Systems, Inc. (part # A POW 1)
4. Do not install as a rear-mount installation
5. Use only 14 gauge or greater landscape lighting cable for power. Make sure that it is rated for direct burial, and 300 watts, as sold by Elite Access Systems, Inc. (part # A W-100 and A W-500)

Install the chain as shown in the illustration below

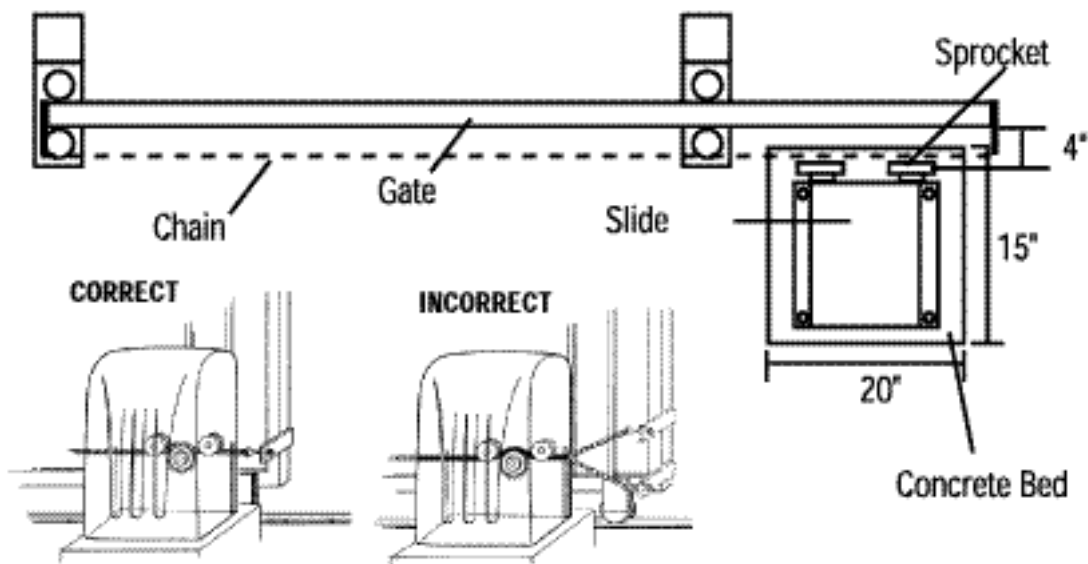


STEP BY STEP INSTALLATION - ROBO SLIDE

- STEP 1:** This gate operator is designed for single home application, or for limited commercial applications. An example of a commercial application would be a factory facility with limited cycles per day, using a plug in transformer or solar panel.
- STEP 2:** Pour concrete bed for Robo Slide. Minimum size of bed is 20" x 15" x 20"d. Suggested installation for bolts is 1/2" x 3 1/2" (for red-head bolt).

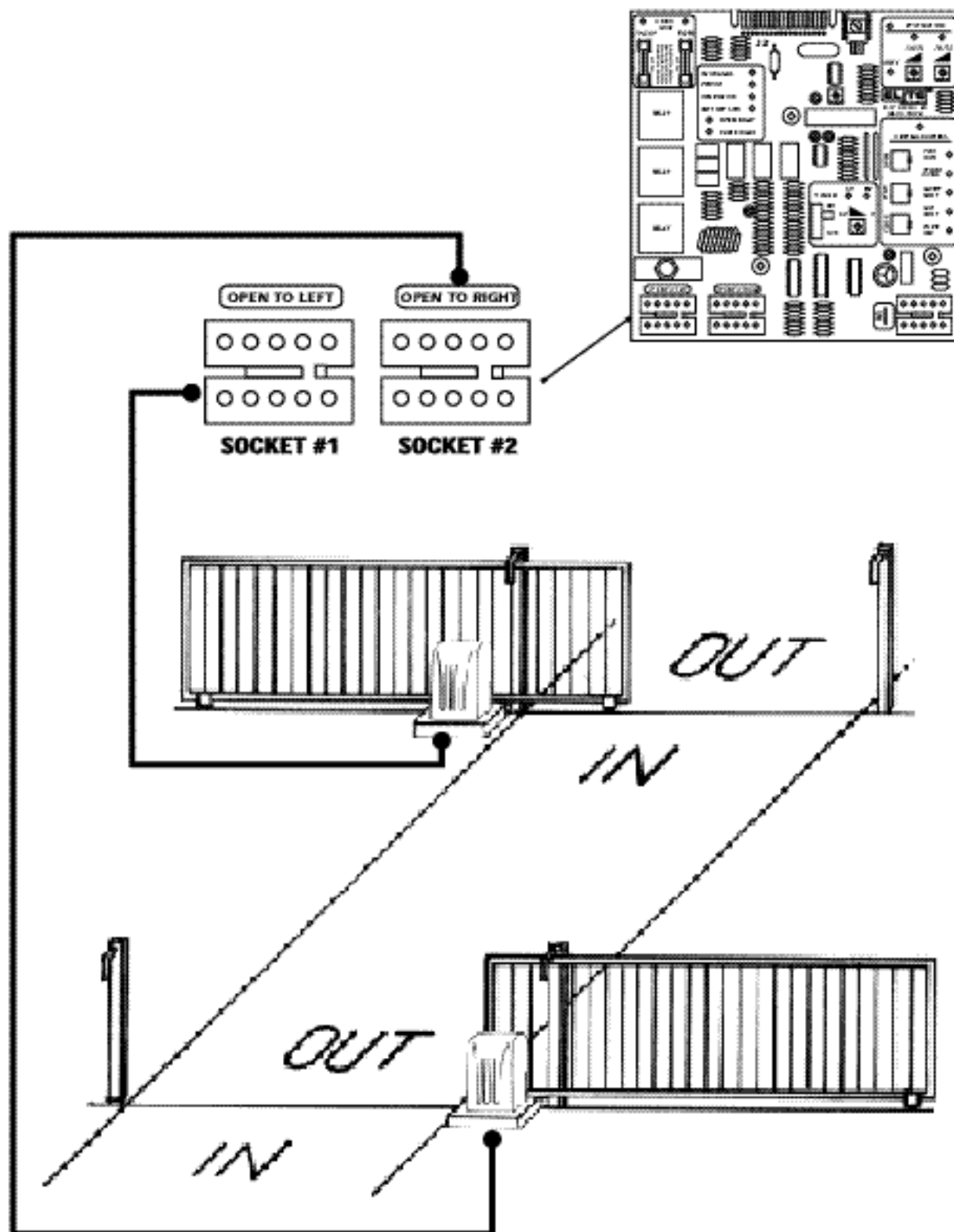


- STEP 3:** Minimum space between gate and output sprocket must be 4". After you position the gate operator, bolt-down the operator to the concrete bed. Make certain that the concrete bed is solid.



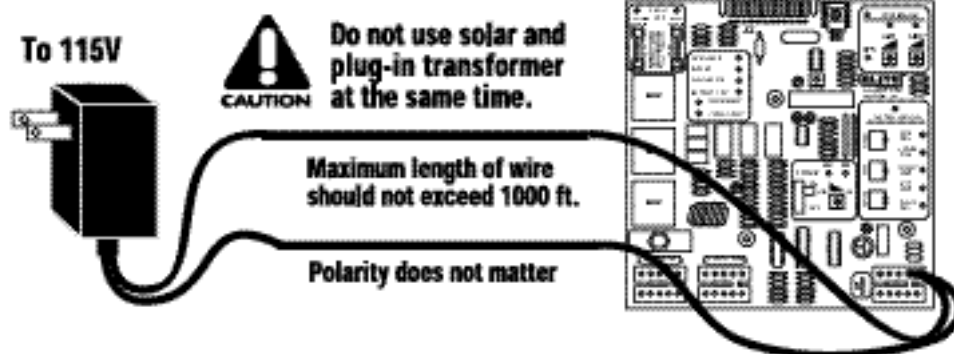
STEP BY STEP INSTALLATION - ROBO SLIDE

STEP 4: Choosing movement direction. Plug in the motor wires to the left socket (#1) if your gate, from the inside of the property, opens to the left and closes to the right. Plug into the right socket (#2) if the gate, from the inside of the property, opens to the right and closes to the left.

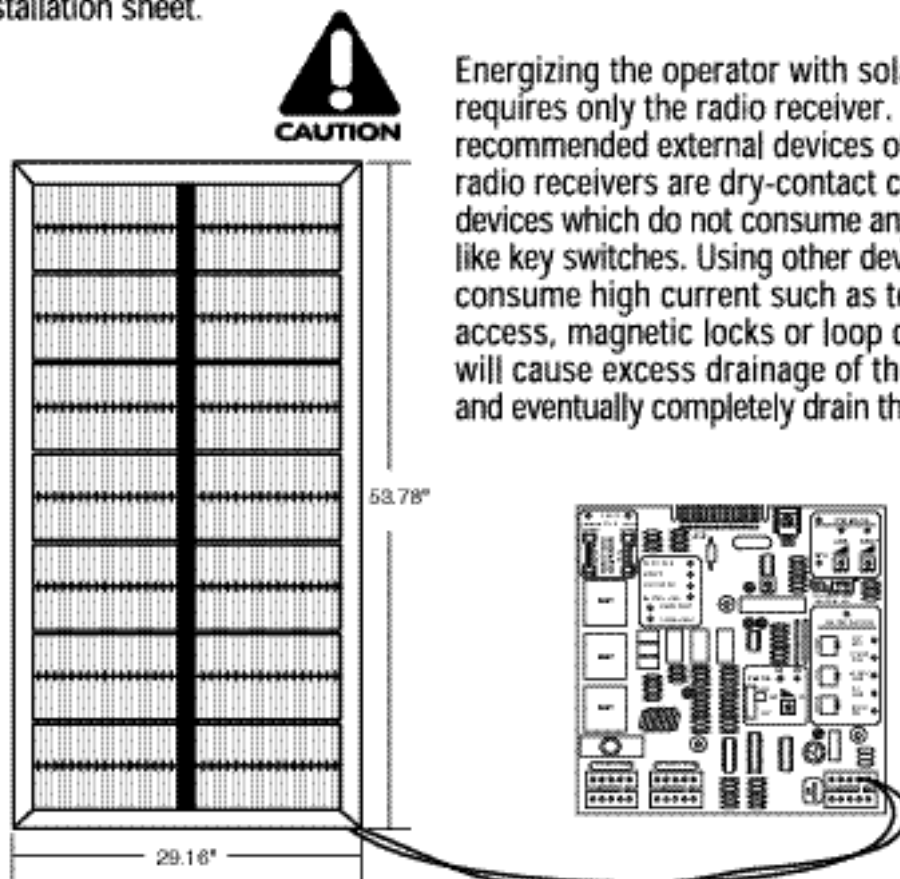


POWER SUPPLY - ROBO SLIDE

- STEP 5:** Power supply. If you use the plug-in transformer, you have to hook up the transformer (sold by Elite Access System only) to 115V and use two, low voltage, 14 gauge / 300watt direct burial, landscape lighting cables (part #A W-100 and A W-500). Hook these wires to the two yellow wires from operator to the plug-in transformer. By doing this, you also have to connect the battery cable to the plug. You will immediately hear a beep for a few seconds. After the beep, check the charger LED, **it must be on.**



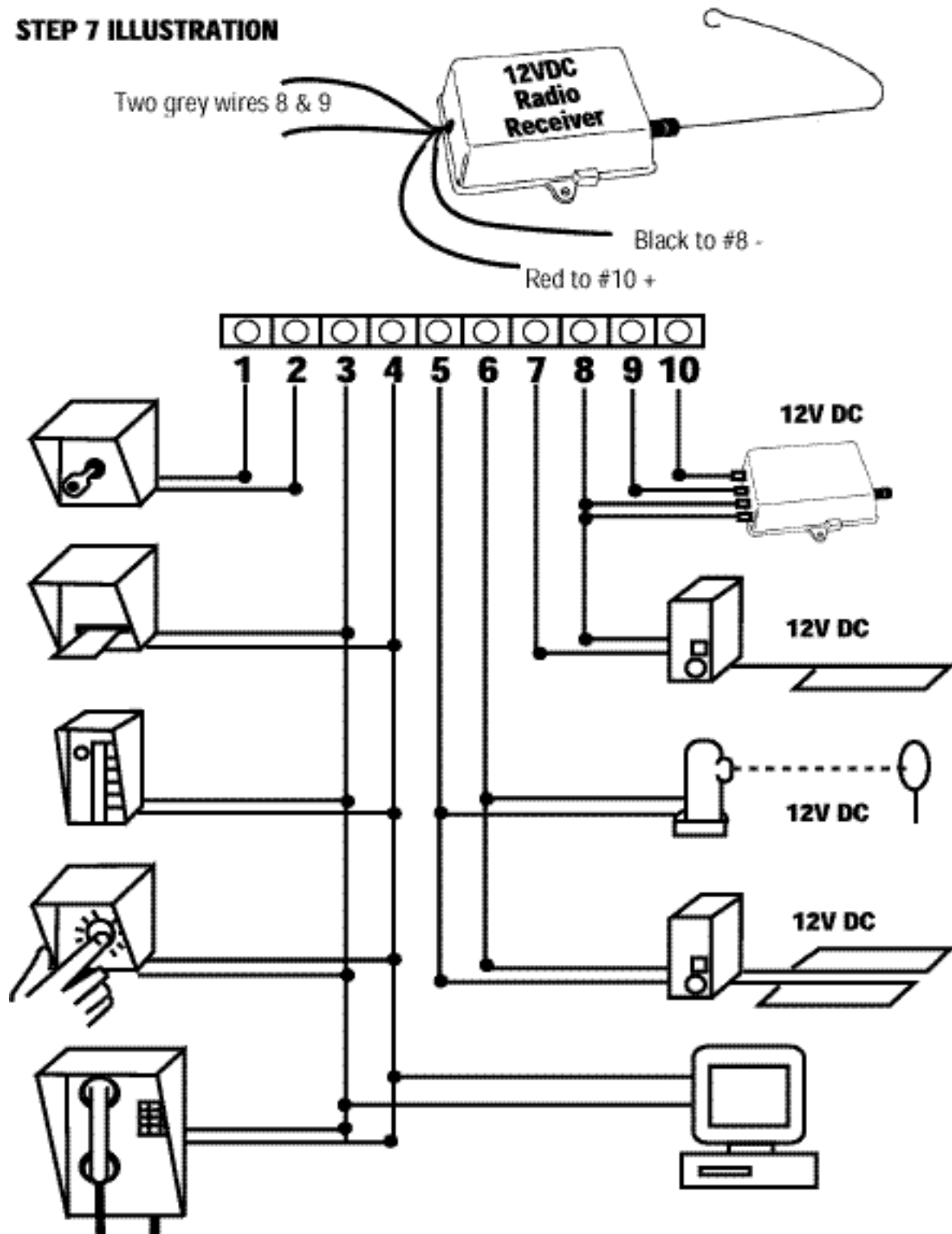
- STEP 6:** Optional Solar Panel. If you use the optional solar panel (model: Solar 3), use the yellow wires from the J1 as shown in the illustration below. There is no need to distinguish polarity on the connection. Connect the wires from the solar panel to the J1 output on the board of the operator. Sunlight will energize the batteries through the solar panel (model: Solar 3). This solar panel will charge up to 2800Mamp/Hr in optimum conditions & 500Mamp/Hr in light overcast conditions. For detailed specifications consult the Solar 3 Installation sheet.



TERMINAL INPUT CONNECTIONS

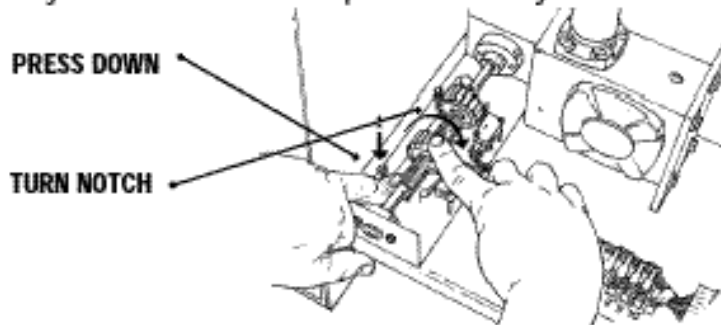
STEP 7: Now you need to install the radio receiver (must be 12V DC only). If you want to use safety or exit loops, you must use 12V DC loop detectors only. The hook-ups for the radio receiver are as follows: Strike open wires go to 8 and 9 on terminal. Power supply goes to terminal 10 (positive +) and terminal 8 (negative -). Inputs for other devices are shown in illustration below.

STEP 7 ILLUSTRATION

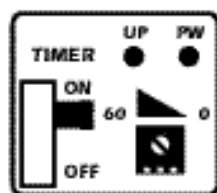


STEP BY STEP INSTALLATION - ROBO SLIDE

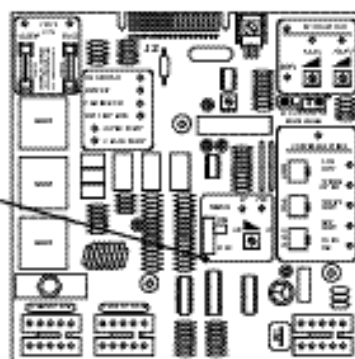
STEP 8: How to adjust traveling distance of the gate. Adjustment is done by limit switches which are located on the Robo Slide chassis. By pressing plate down (shown in illustration below), you will be able to turn the notch and set your limit switches for open and close cycles.



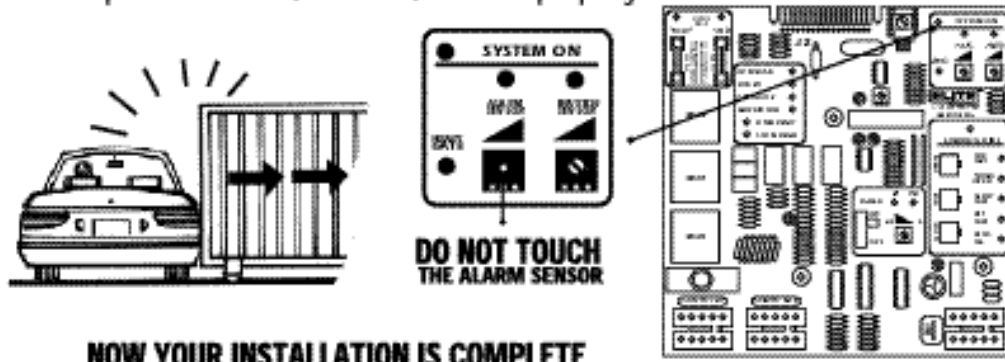
STEP 9: Timer. If you want to use the automatic close for the gate system the timer switch should be put in the "ON" position as shown in the illustration below. If you want to use the push open or push close command, the timer should be switched to the "OFF" position.



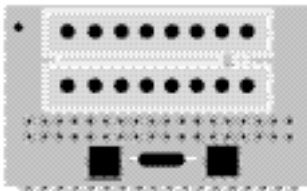
The timer can be set from 0 to 60 sec



STEP 10: Adjusting the two-way reversing sensor. There is a blue pod with a white screw on the upper portion of the board. The pod reads (REVERSE SENSOR) as shown in the illustration below. The level of sensitivity has to do with the weight of the gate and the condition of installation. Too sensitive = if the gate stops or reverses by itself. Not sensitive enough = if the gate hits an object and does not stop or reverse. There is an LED (HEAVY GATE) which will light up when the gate is heavier than normal for the operator. The operator will still, however, function properly.

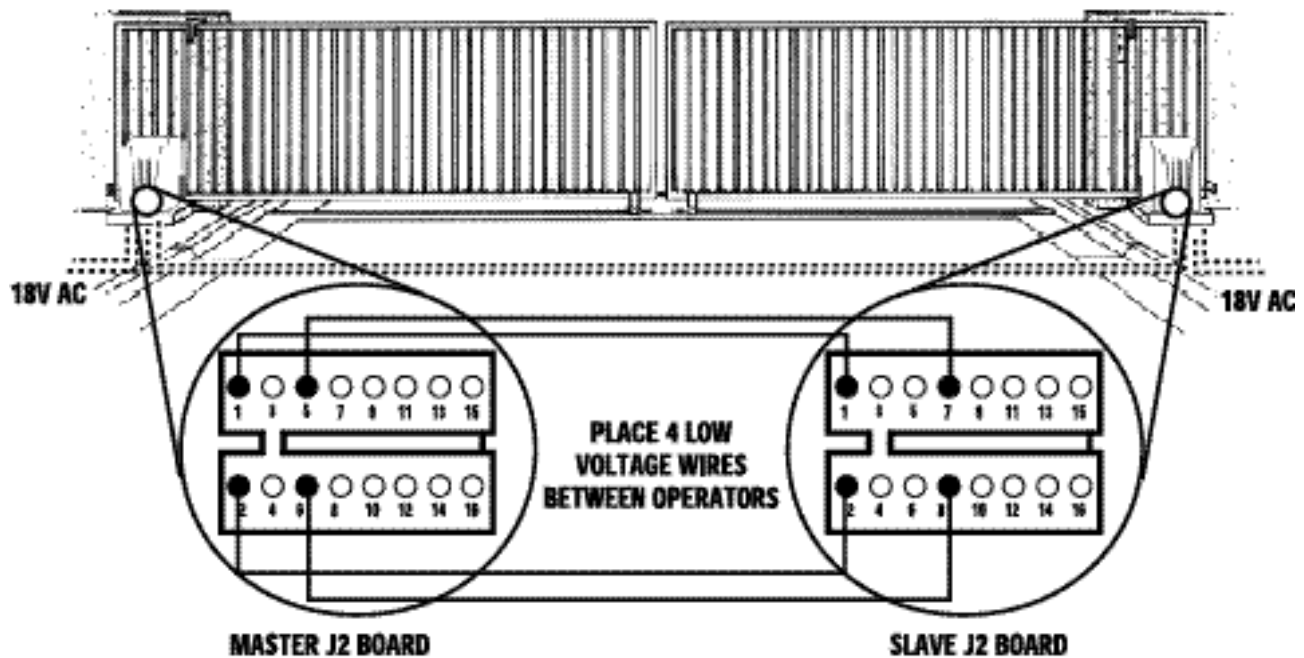


MASTER AND SLAVE WITH TIMER



OPTIONAL ADDITIONAL INPUT BOARD

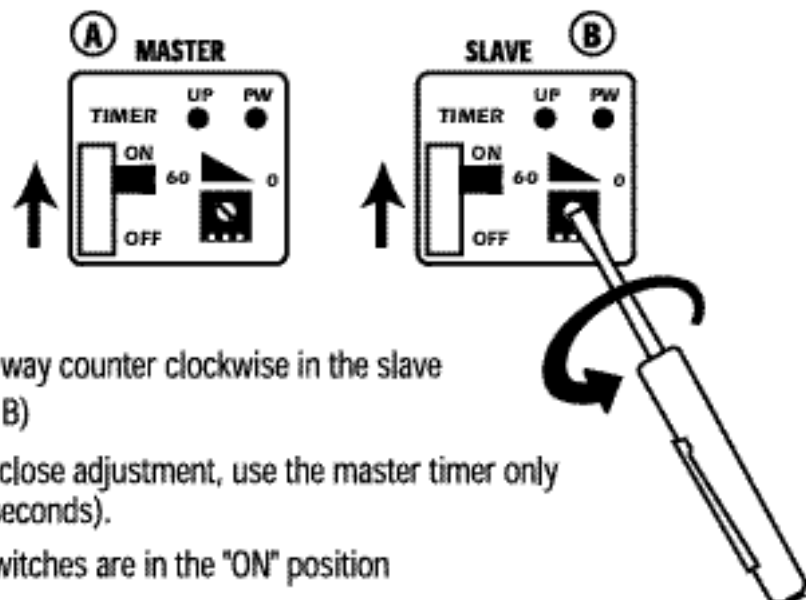
In order to use the master/slave option with the Robo Slide gate operator, you must purchase the Optional Additional Input Board and connect it to the J2 slot at the top of the control board.



CAUTION

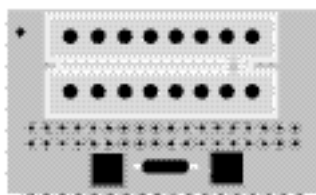
Be sure that both timer switches are in the "ON" position

1. Connect pin #1 of master J2 Board to pin #1 of slave J2 Board
Connect pin #2 of master J2 Board to pin #2 of slave J2 Board
Connect pin #5 of master J2 Board to pin #7 of slave J2 Board
Connect pin #6 of master J2 Board to pin #8 of slave J2 Board



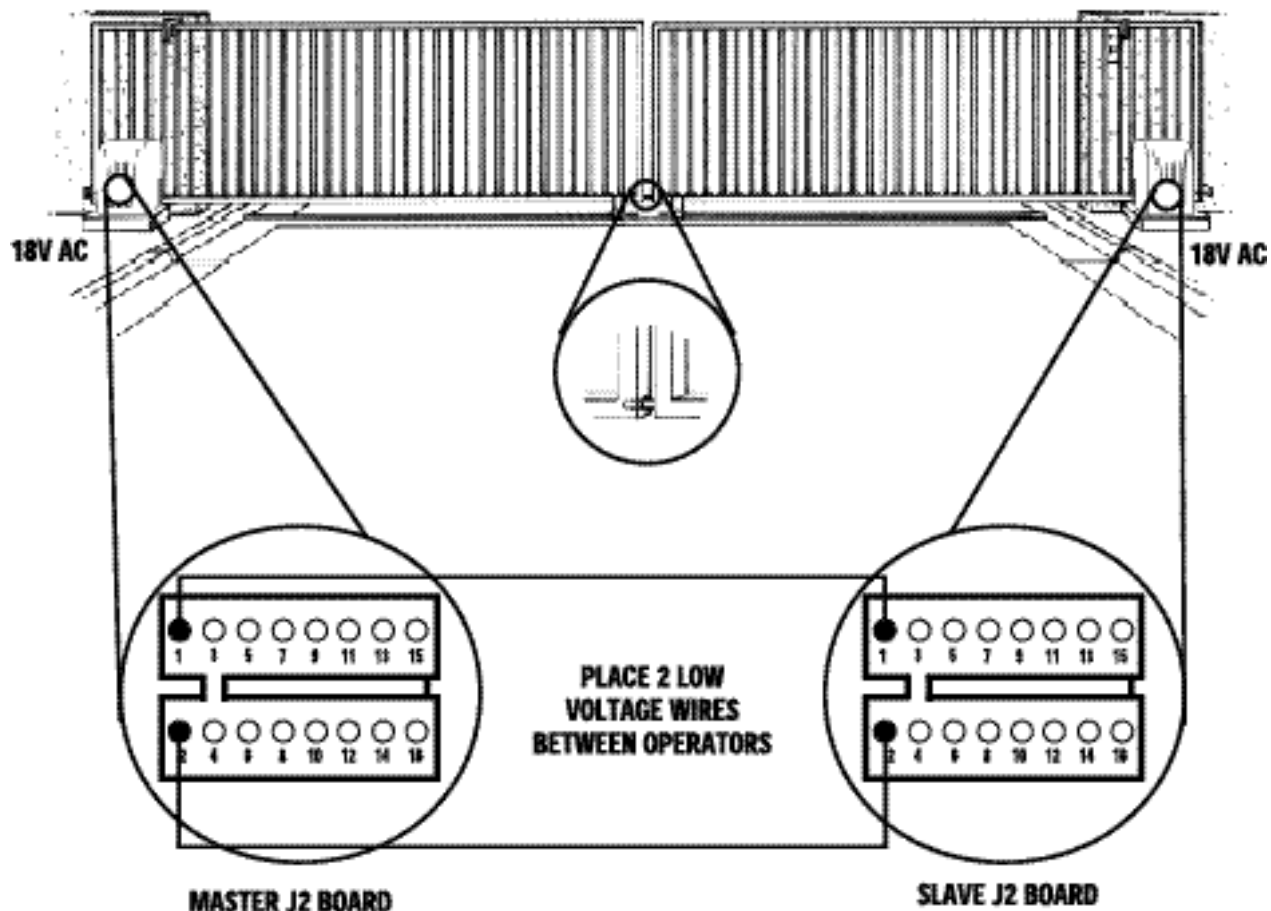
2. Turn the timer pod all the way counter clockwise in the slave gate operator (illustration B)
3. For time range automatic close adjustment, use the master timer only (adjustable from 0 to 60 seconds).
4. Be sure that both timer switches are in the "ON" position

MASTER AND SLAVE WITHOUT TIMER

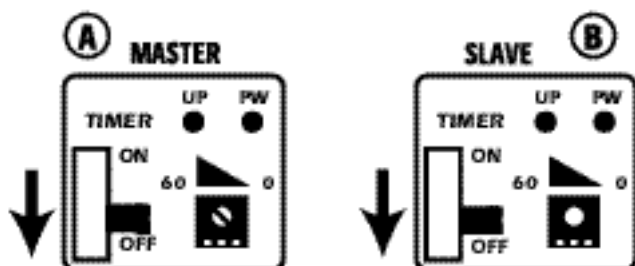


OPTIONAL ADDITIONAL INPUT BOARD

In order to use the master/slave option with the Robo Slide gate operator, you must purchase the Optional Additional Input Board and connect it to the J2 slot at the top of the control board.



1. Connect pin #1 of master J2 Board to pin #1 of slave J2 Board
Connect pin #2 of master J2 Board to pin #2 of slave J2 Board
2. Be sure both timers are in the "OFF" position

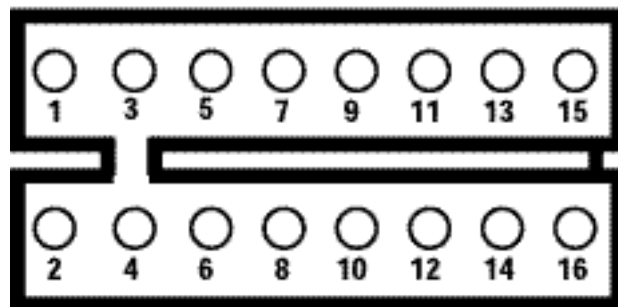


CAUTION

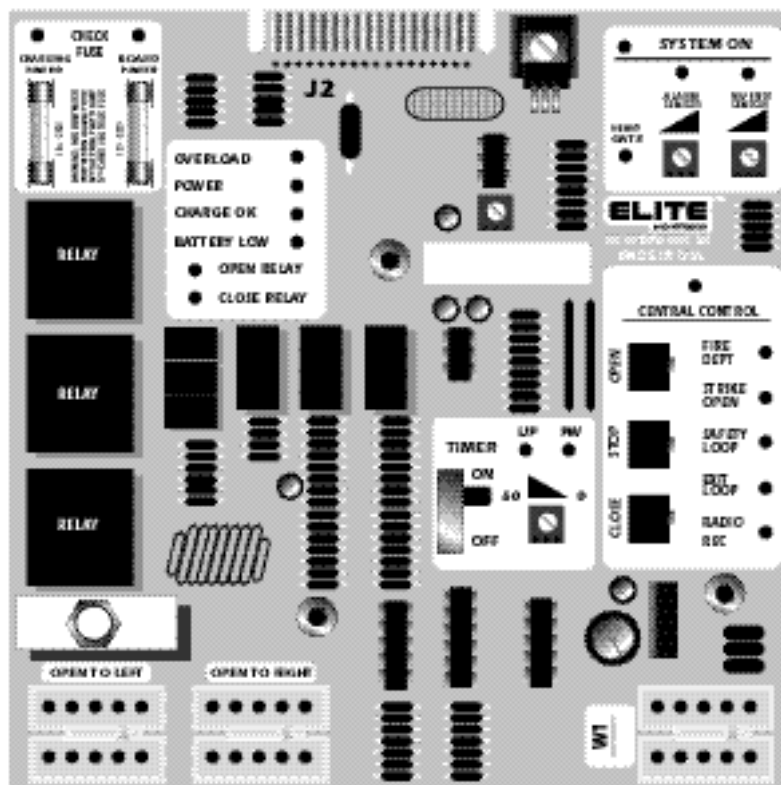
Be sure that both timer switches are in the "OFF" position

OPTIONAL ADDITIONAL INPUT BOARD

The optional board, allowing extra control of the gate, is available only from Elite Access Systems. Installation is simple; just clip the optional board to the J2 slot on the top of the control board. The description below labels the function of each pin on the plug for easy reference.

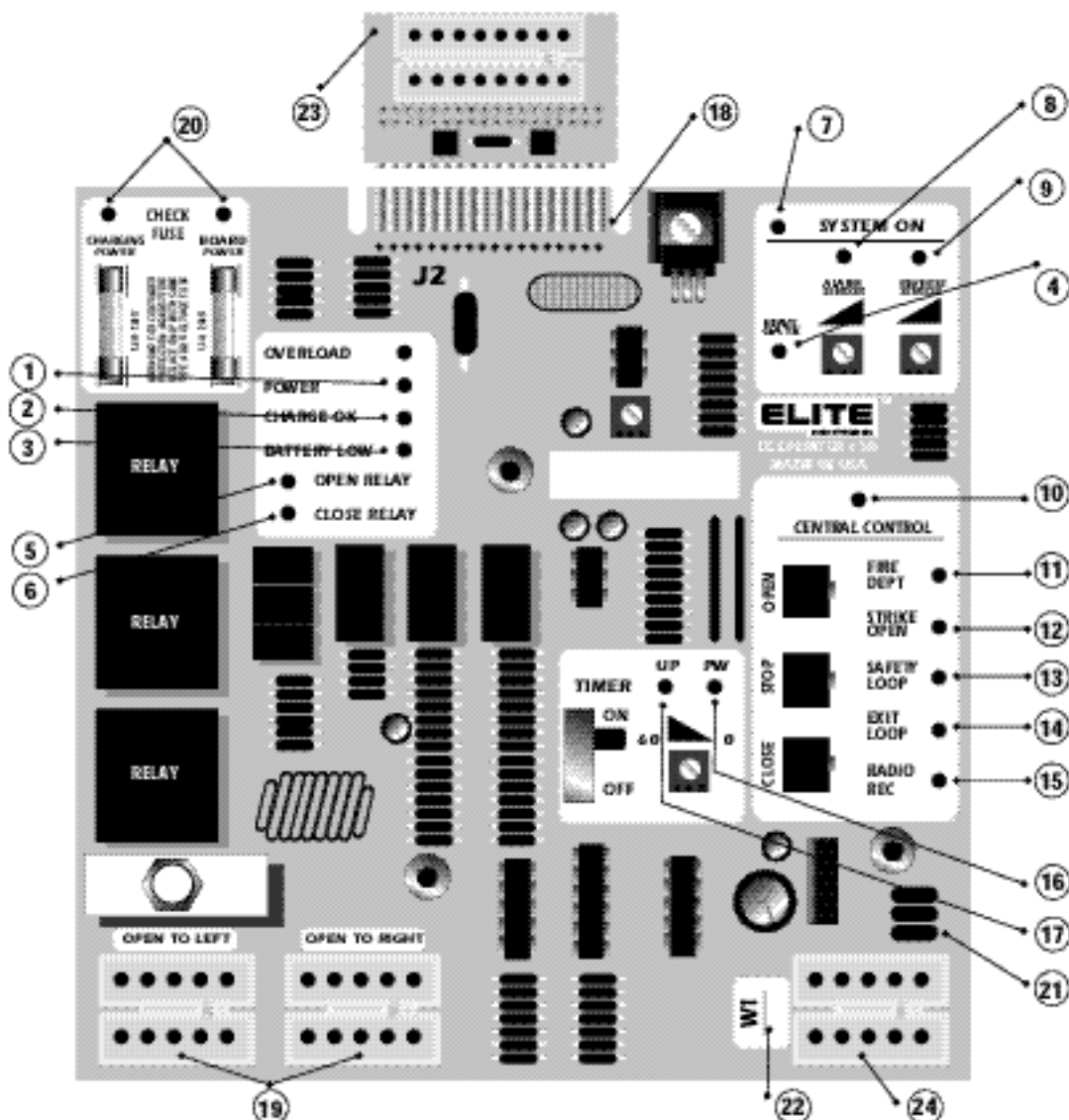


- 1 & 2** OPEN SWITCH
- 3 & 4** STOP SWITCH (CUT W1 JUMPER AT BOTTOM RIGHT CORNER OF BOARD)
- 5 & 6** TIMER CLOSE OUTPUT FROM MASTER TO SLAVE
- 7 & 8** TIMER INPUT FROM SLAVE TO MASTER (CLOSE COMMAND)
- 9 & 10** VANDALISM ALARM OUTPUT (NOT BURGLAR ALARM) - 12VDC
- 11 & 4** EMERGENCY OPEN (DIRECT COMMAND FROM BATTERY TO MOTOR)
- 12 & 7** EMERGENCY CLOSE (DIRECT COMMAND FROM BATTERY TO MOTOR)
- 13 & 14** MAGNETIC LOCK - DRY CONTACT RELAY (COM NC)
- 15 & 16** CENTER LOOP OPTION (FOR SWING GATE OPERATOR ONLY)



OPERATION PANEL

1. Power on LED
2. Charge on LED
3. Low battery indicator LED
4. Heavy gate indicator LED
5. Open Relay LED
6. Close Relay LED
7. System on for reversing sensor and alarm sensor
8. Alarm sensor LED
9. Reversing sensor LED (REBOUNDER)
10. Central control LED
11. Fire department or key switch LED
12. Strike open LED
13. Safety loop or photocell LED
14. Exit loop LED
15. Radio receiver LED
16. Timer power LED
17. Timer adjust signal
18. J2 alternate optional outputs
19. Movement direction sockets
20. Replace fuse indicator
21. Spike suppressor
22. Jumper for push button
23. Optional Additional Input board
24. Plug in power - 18V AC or solar panel



LED DESCRIPTION

LED DESCRIPTION	LED ON	LED OFF
<p>Power at all times when there is one or more power sources ie: Battery - transformer or solar ①</p>	Power source OK and board power fuse OK	1. No power source at all If dimmed down 1. Bad board power fuse
<p>Charger OK on when there is any charging power ie: Transformer - solar ②</p>	Transformer or solar OK and charging power fuse OK	1. No Transformer or Solar If dimmed down 1. Bad Charging power fuse
<p>Battery low normally off - it will indicate low battery ③</p>	Flashing LED - Battery is less than required limit needs to be recharged 1. Excess usage 2. Bad charging system 3. Under rate solar panel 4. Bad battery 5. Bad battery connection	Battery OK Battery voltage is over minimum required limit
<p>Heavy gate will work only when the gate is in motion ④</p>	1. Gate is too heavy 2. Bad wheels 3. Bad rollers 4. Chain is too tight 5. Steep slope on open or close cycle 6. Low battery	Gate weight and condition are OK
<p>Open relay ⑤</p>	Open relay is energized	Open relay is not energized
<p>Close relay ⑥</p>	Close relay is energized	Close relay is not energized
<p>System on will work only when the gate is in motion ⑦</p>	Detecting motor current	1. Motor stop 2. No motor current detected
<p>Alarm Sensor when LED goes on you will hear a beep sound for about 20 seconds ⑧</p>	1. Hearing beep sound means overload 2. Gate is too heavy 3. Broken wheel 4. Gate off track 5. Unwanted object has physically stopped gate	System is OK

LED DESCRIPTION - CONTINUED

LED DESCRIPTION	LED ON	LED OFF
Reversing sensor ⑨	Sensor is detecting obstruction	No obstruction is detected
Central control ⑩	Acknowledgement of receiving open command from one of the terminals • Fire department 1 & 2 • Strike open 3 & 4 • Safety loop 5 & 6 • Exit loop 7 & 8 • Radio receiver 8 & 9	1. Not receiving any command
Fire Dept ⑪	Receiving signal at terminal block 1 & 2	Not receiving signal at terminal block 1 & 2
Strike open ⑫	Receiving signal at terminal block 3 & 4	Not receiving signal at terminal block 3 & 4
Safety loop ⑬	Receiving signal at terminal block 5 & 6	Not receiving signal at terminal block 5 & 6
Exit loop ⑭	Receiving signal at terminal block 7 & 8	Not receiving signal at terminal block 7 & 8
Radio Rec ⑮	Receiving signal at terminal block 8 & 9	Not receiving signal at terminal block 8 & 9
Timer PW ⑯	Timer power is on	Timer is not on
Timer UP ⑰	Output signal to close relay	Not receiving signal to close relay

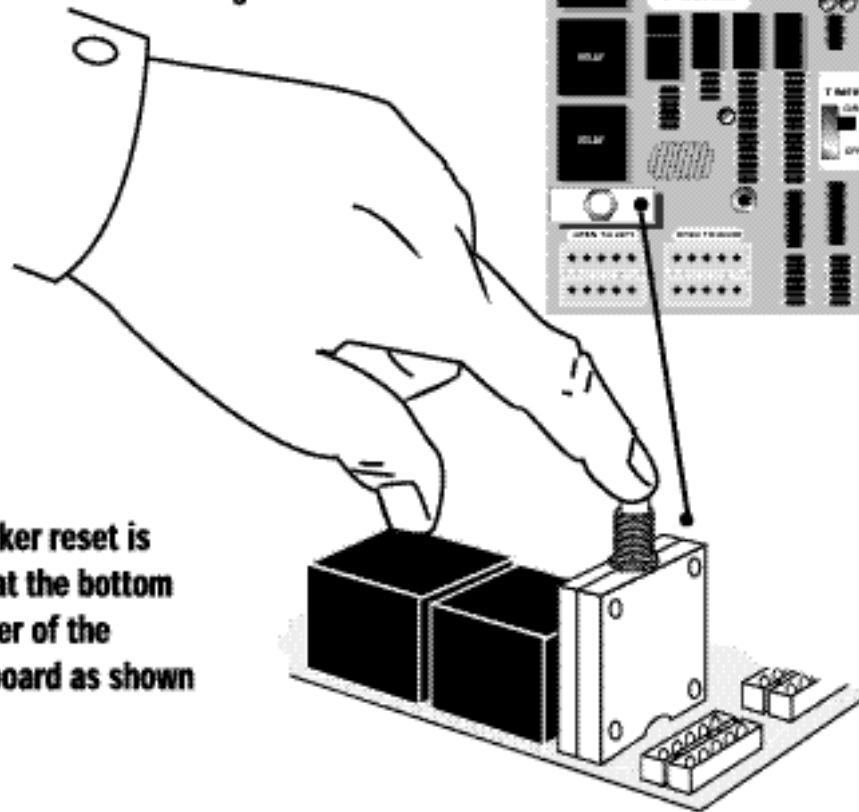
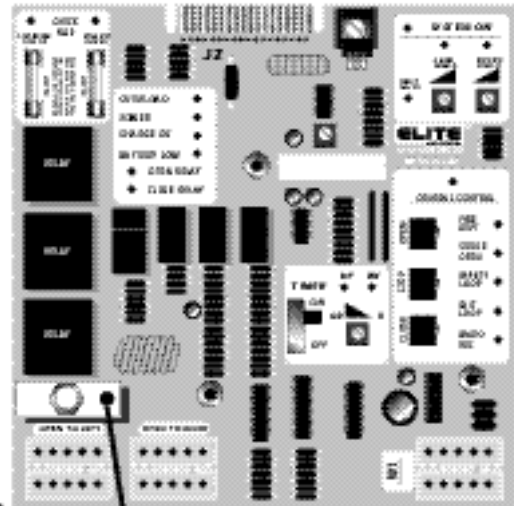
TROUBLESHOOTING

How to reset the Breaker

If all electronic sensors fail or are not adjusted properly due to heavy gates, off-track gate, or obstructed gate path, the breaker will kick-out. Reset the breaker by pressing the reset button located on the bottom left corner of the control board.



Always disconnect the battery before resetting the breaker or injury could occur as the gate starts.



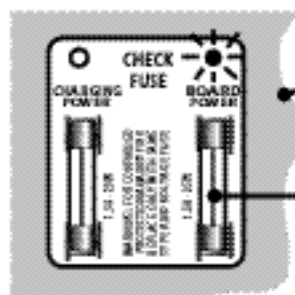
The breaker reset is located at the bottom left corner of the control board as shown

Check the fuses

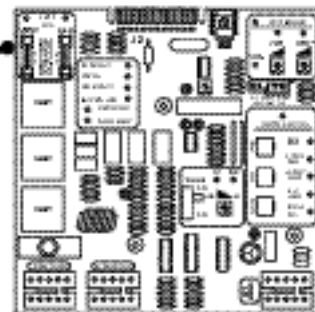
If the gate is not moving in any direction be sure to check all of the LED displays on the control board. If the board power or charging power LEDs are on, change the corresponding fuse on the top left corner of the board.



Replace fuse only with 1.5A - 250V fuse (supplied by Elite Access)

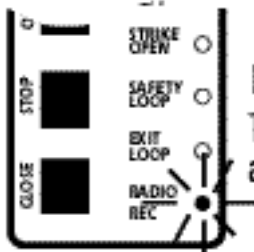


Change fuse



TROUBLESHOOTING

Checking Output Options (example - Radio Receiver)



Problem:
The radio receiver LED is on and the gate remains open.



Problem:
The radio receiver LED is not on and the gate will not open with the radio receiver.

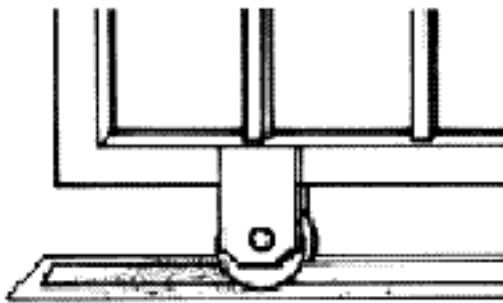


Solution:
The radio receiver has malfunctioned in the "ON" position

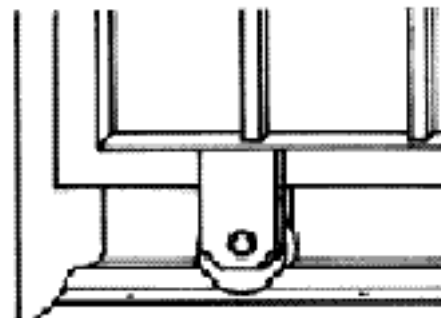


Solution:
The radio receiver has malfunctioned in the "OFF" position

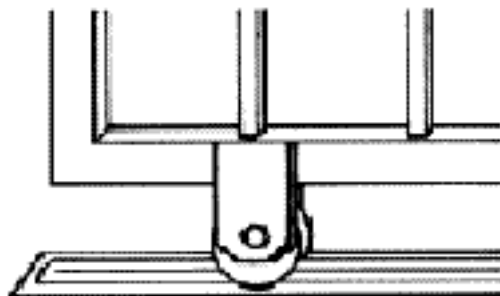
If you hear a "beep" sound, the gate is too heavy. If not check below.



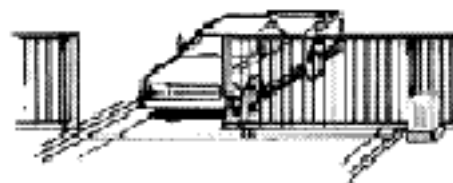
Check the gate track for any unwanted objects such as mud, rocks, dirt, etc



Check the gate to see if it is hitting the wall or any other object.

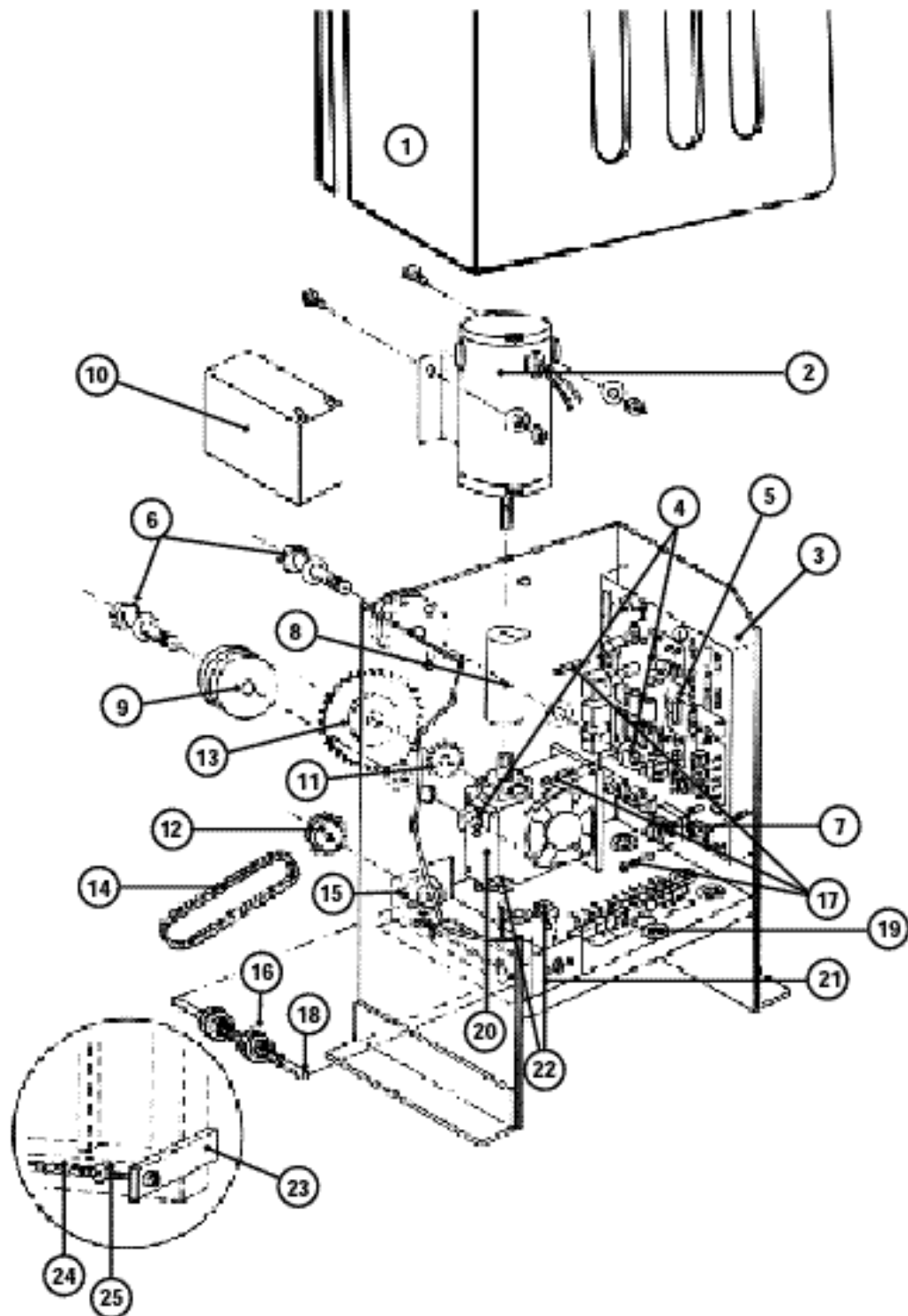


Check for damaged or jammed wheels.



Check to see if the gate is off the track due to collision with a car or other object.

PARTS DIAGRAM ROBO SLIDE

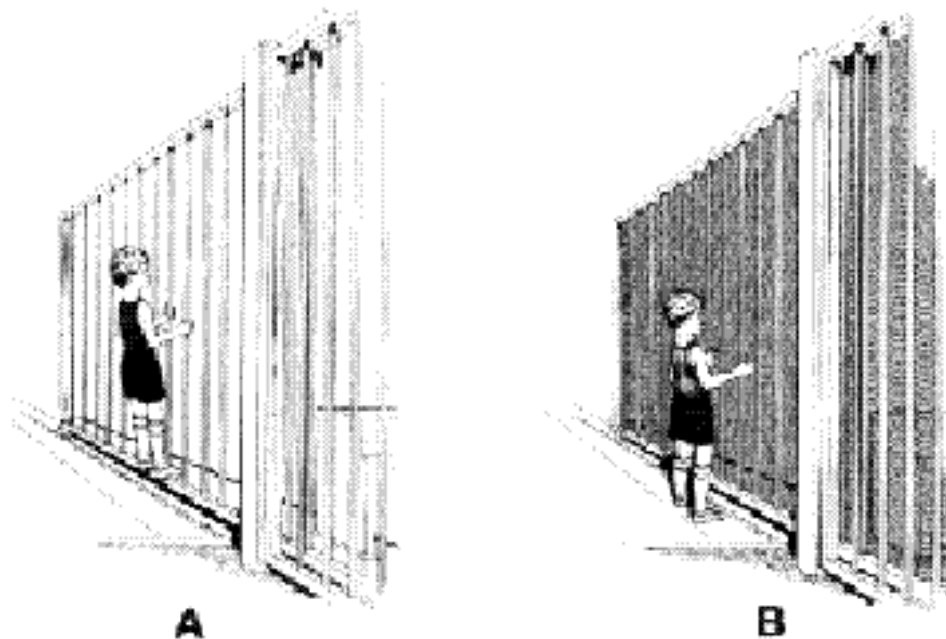
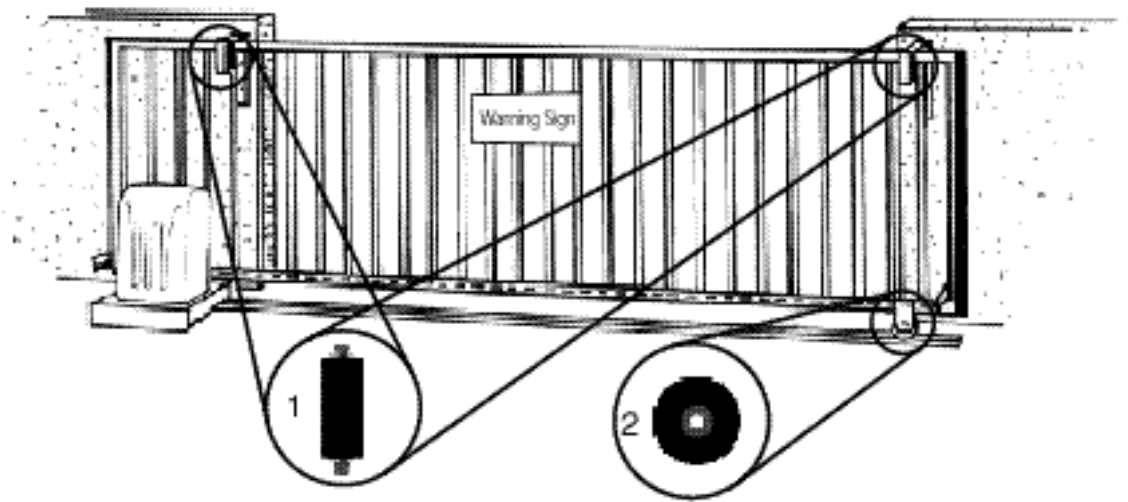


PARTS LIST ROBO SLIDE

1. Heavy-duty weather proof cover
2. 12V DC motor
3. Chassis Robo Slide
4. Nuts for idler sprocket
5. Electronic control board
6. Bolt for idler sprocket
7. Terminal block harness
8. Coupling 1/2"
9. Idler sprocket
10. Battery
11. Limit switch drive sprocket
12. Limit switch
13. Drive sprocket
14. Limit chain #25
15. Limit switch bearing holder
16. Limit switch nuts
17. Electronics board nut set
18. Limit shaft
19. Plastic ring
20. Gear reducer (gear box size 40)
21. Limit hardware
22. Limit switch
23. Chain bracket
24. #41 Chain (10 feet)
25. Chain bolt

SUGGESTIONS

We suggest the following items manufactured by Elite Access Systems for safer operation: 1. UHMW Guide Rollers, 2. Power Wheels and 3. Warning Sign.



ATTENTION

In order to reduce any severe injuries, Elite Access Systems recommends the electric gate: to be covered with a mesh (picture B) or installed in a way which small children or any other person can not stand, hang or climb on the electric gate (picture A).



**25741 COMMERCENTRE DR
LAKE FOREST, CA 92630**

**TEL: 949-580-1700
FAX: 949-580-1701**