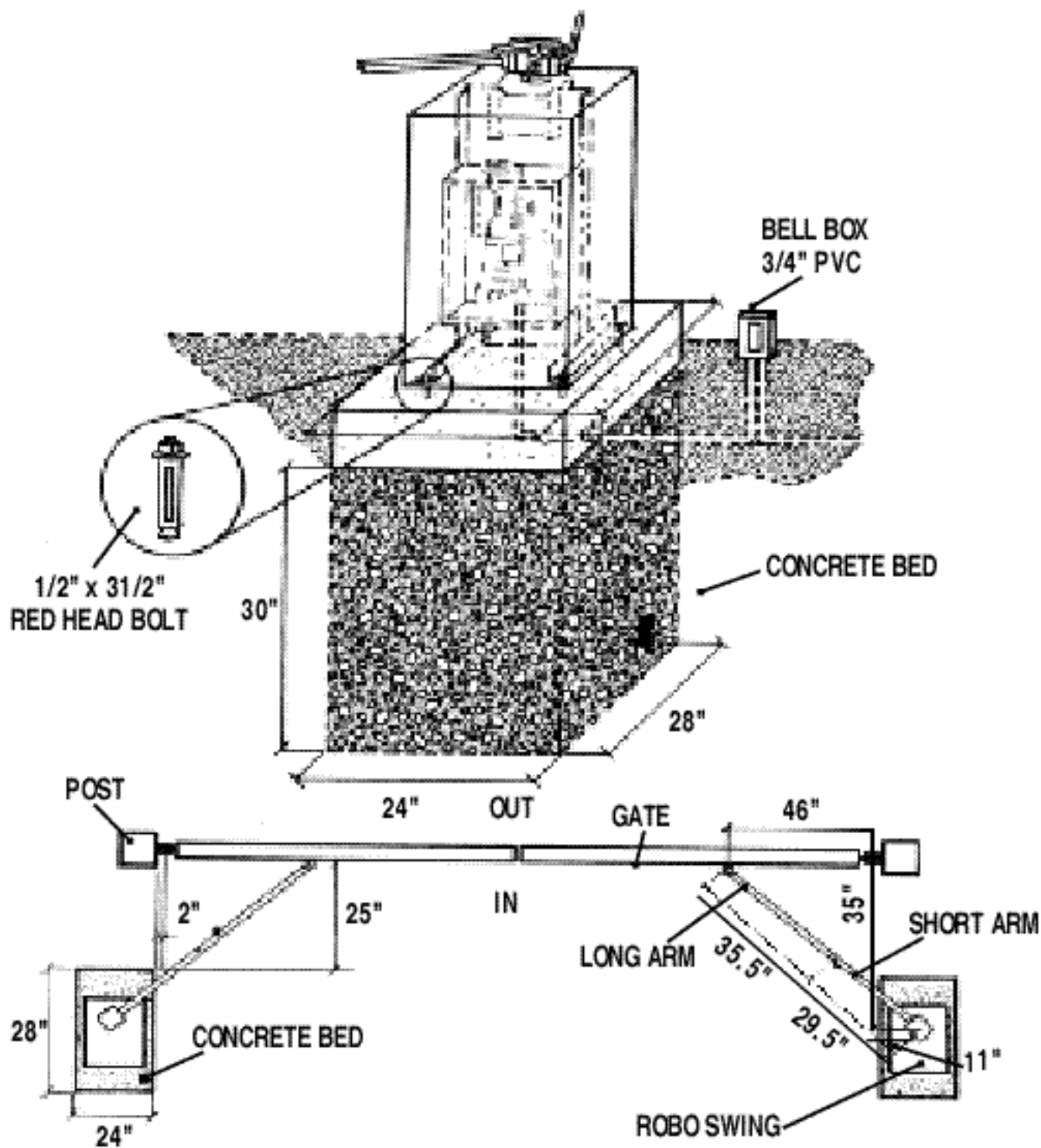


CONCRETE BED AND GATE ARM ATTACHMENT

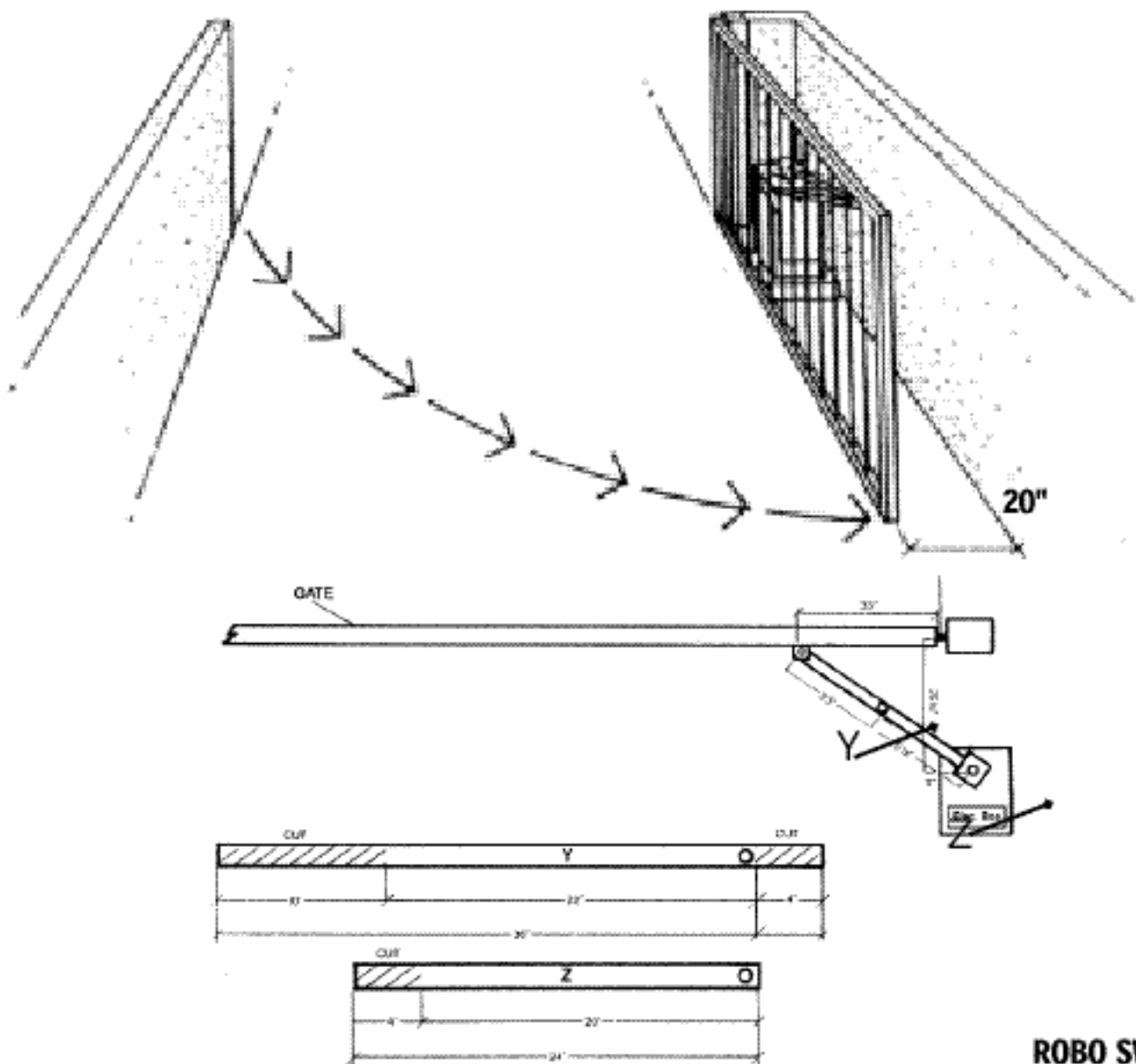
Use these measurements for a standard installation. Refer to page 3 for further instructions and measurements on regular installations.



COMPACT INSTALLATION

COMPACT INSTALLATION ONLY

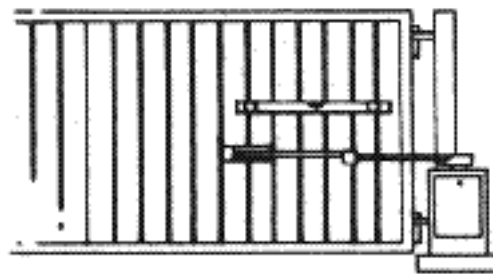
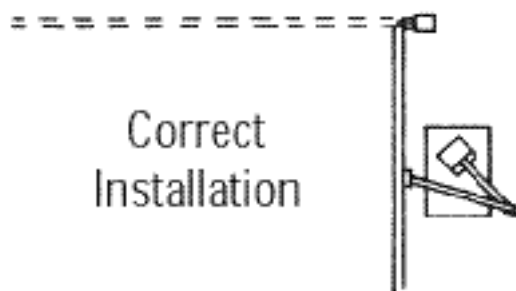
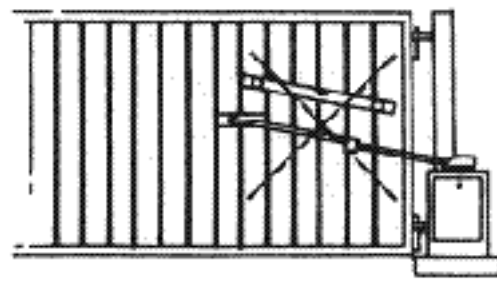
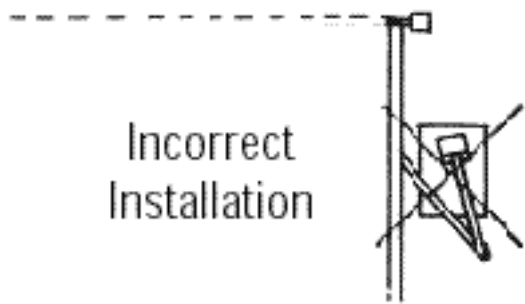
Do not use these measurements for a standard installation. This is ONLY for a compact installation.



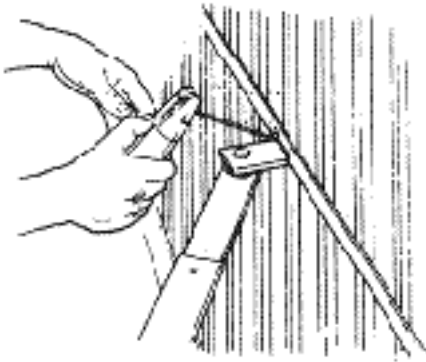
ROBO SWING

Follow the exact measurements as shown in the illustrations. Then cut the standard arm to meet the shorter measurements as shown.

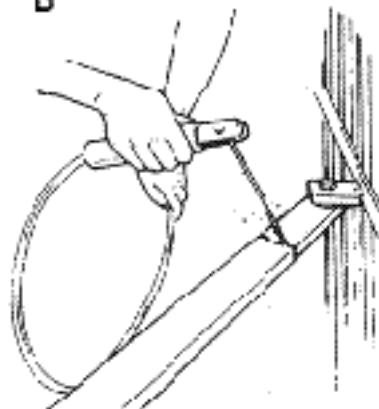
GATE ARM INSTALLATION



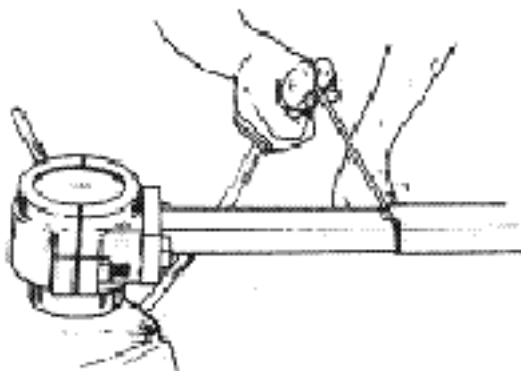
A



B



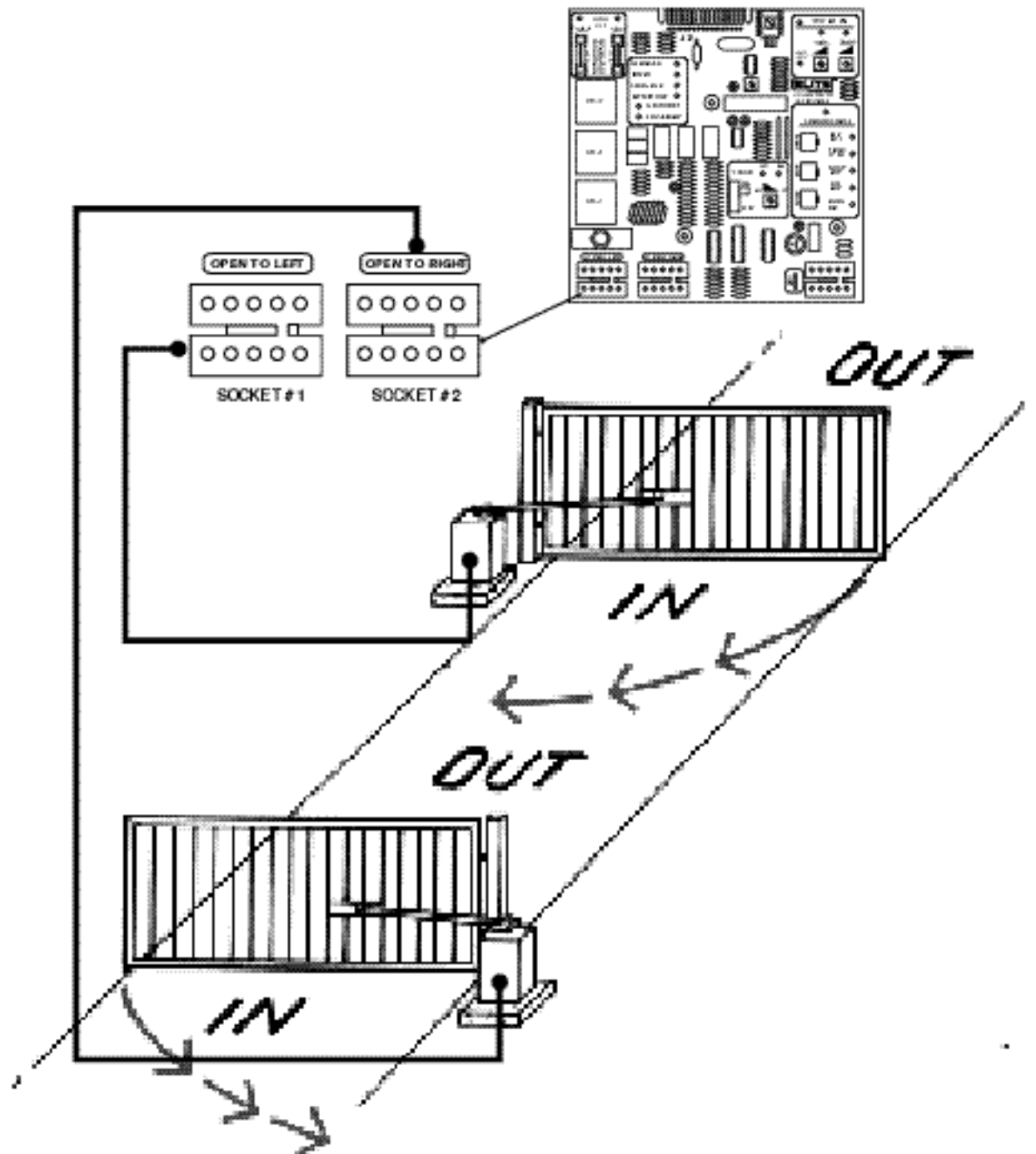
C



Once the gate arm measurements are calculated, weld the bracket on the gate, (weld the longer arm first, then weld the shorter arm. Make sure the tube is welded completely around).

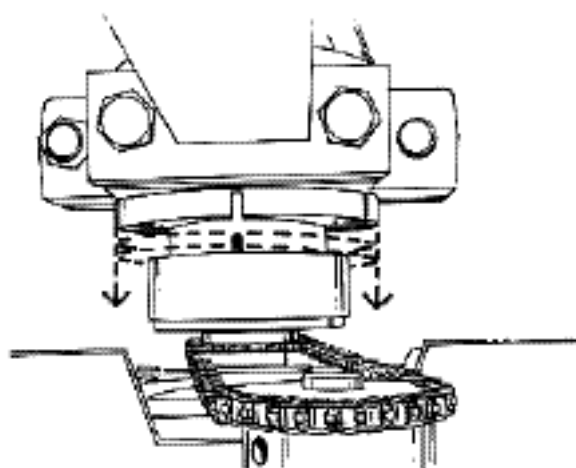
CHOOSING MOVEMENT DIRECTION

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.



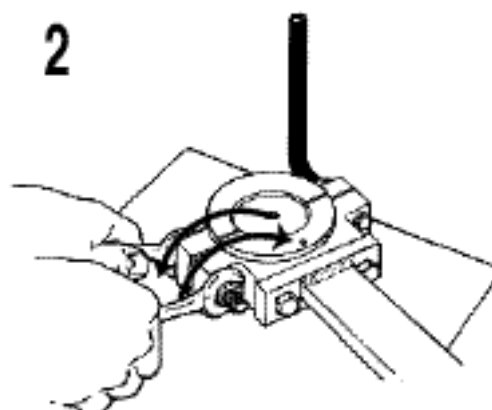
ADJUSTMENT OF TORQUE LIMITER

1



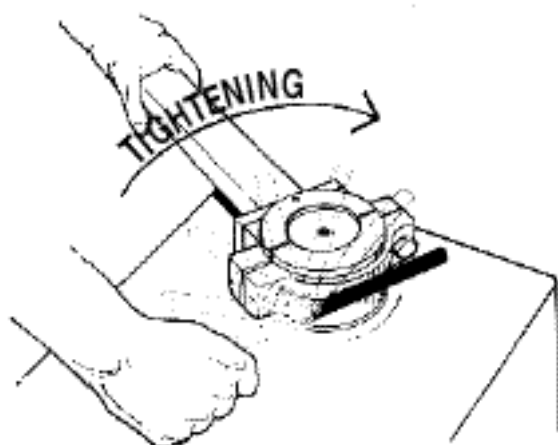
Make sure the pin fits in the notch as shown above.

2



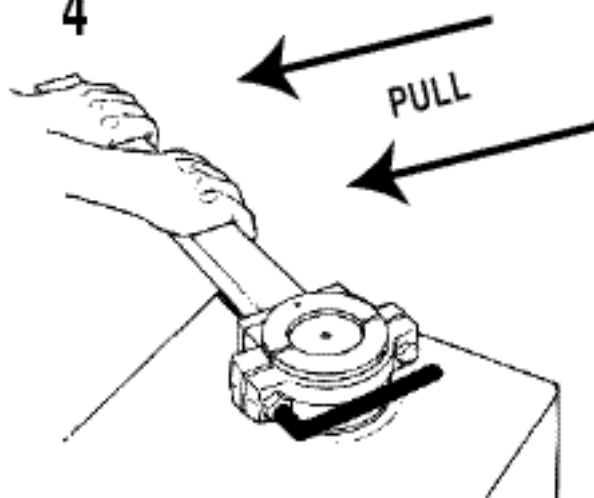
Place the red handle in 90° position and tighten the nut.

3



Place the red handle back in its original position.

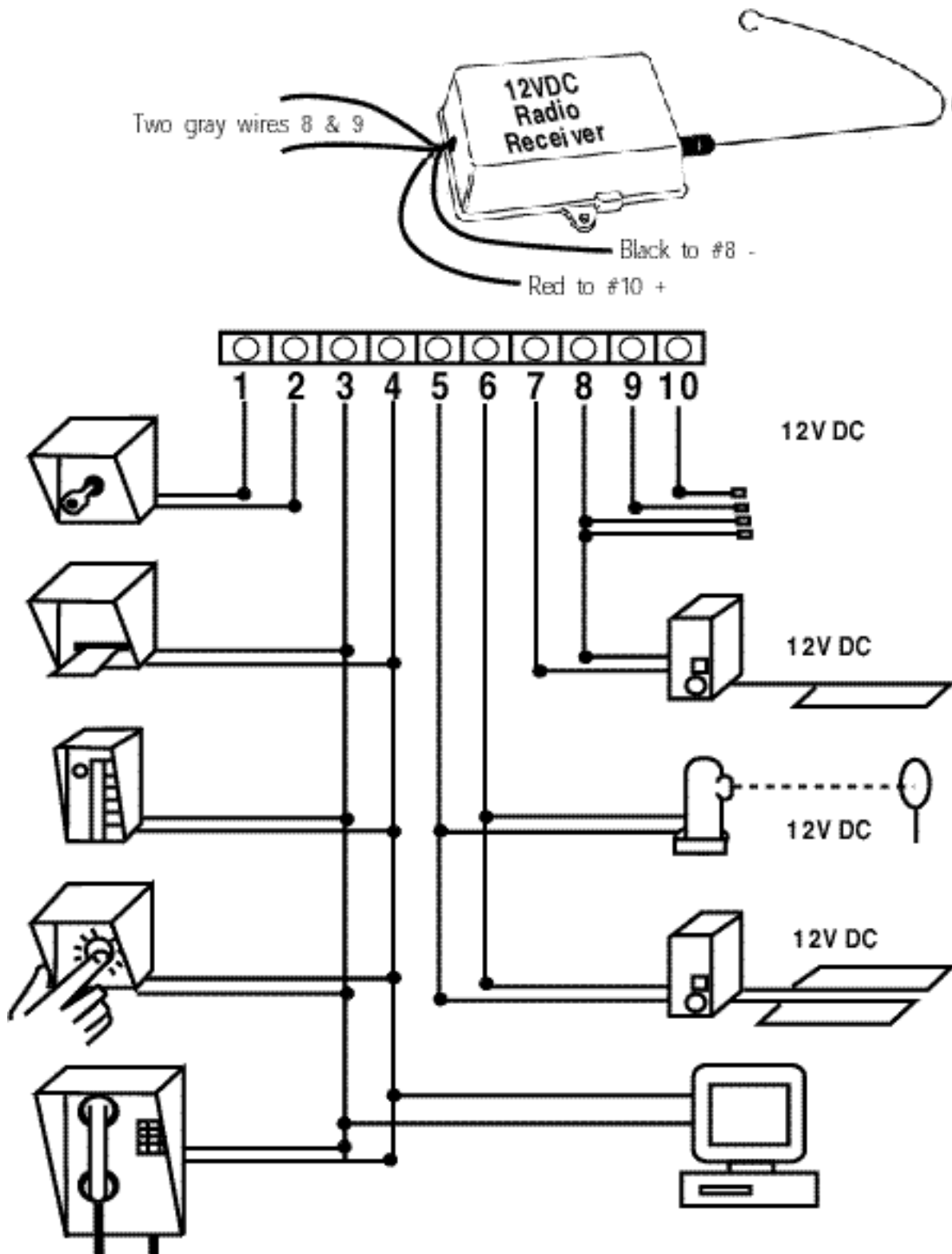
4



Pull the short arm away from the gate. Make sure slipping does not occur, if it does, then repeat step no. 2 & 3.

TERMINAL INPUT CONNECTIONS

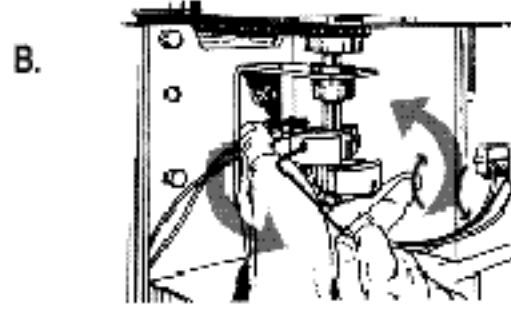
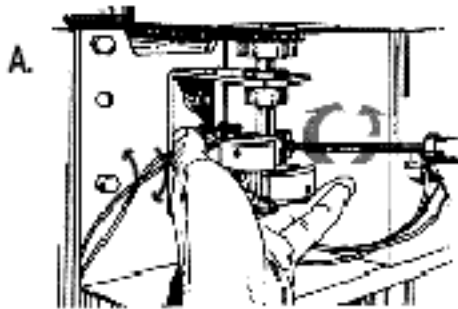
Now you need to install the radio receiver (must be 12V DC only). If you want to use safety or exit loops, you must use 12V DC loop detectors only. The hook-ups for the radio receiver are as follows: Strike open wires go to 8 and 9 on terminal. Power supply goes to terminal 10 (positive +) and terminal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



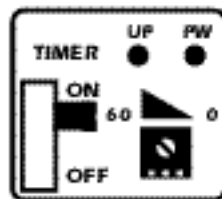
LIMIT ADJUSTMENTS - ROBO SWING

How to adjust traveling distance of the gate.

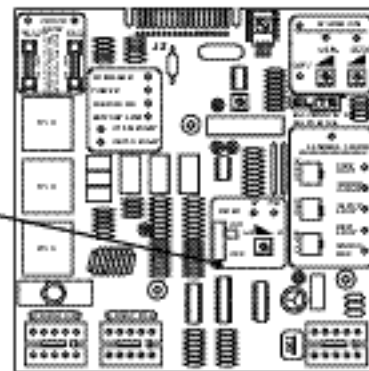
- A.** Release the red handle and open the gate up to a distance desired. Loosen the bolt (as shown in picture "A") and turn plastic part until the half moon shape hits the limit switch. For closing cycle, do the same.
- B.** For a more precise adjustment, you may use the set screw (picture "B").



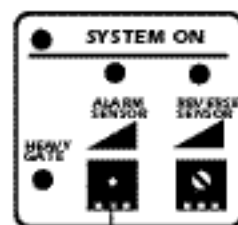
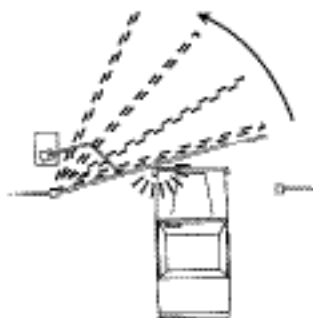
Timer. If you want to use the automatic close for the gate system the timer switch should be put in the 'ON' position as shown in the illustration below. If you want to use the push open or push close command, the timer should be switched to the 'OFF' position.



The timer can be set from 0 to 60 sec

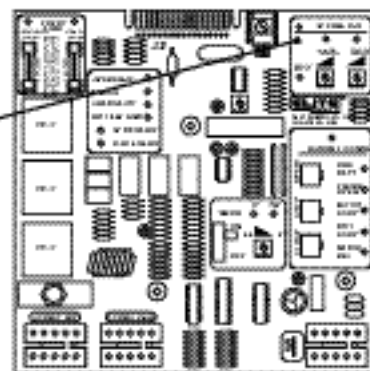


Adjusting the two-way reversing sensor. There is a blue pod with a white screw on the upper portion of the board. The pod reads (REVERSE SENSOR) as shown in the illustration below. The level of sensitivity has to do with the weight of the gate and the condition of installation. Too sensitive = if the 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.

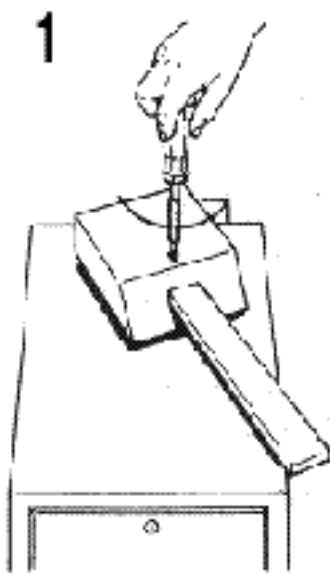


**DO NOT TOUCH
THE ALARM SENSOR**

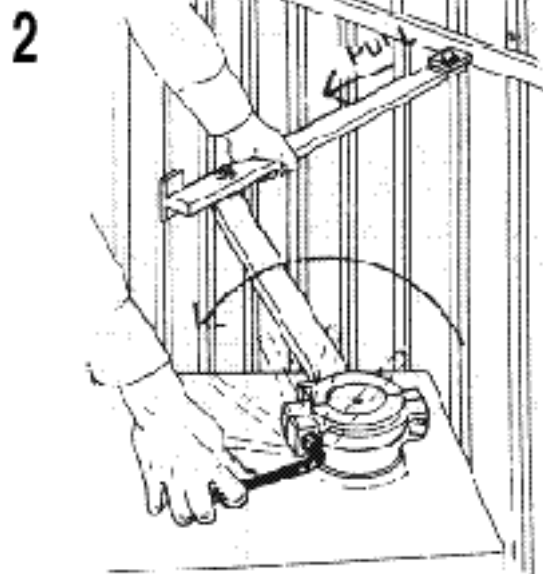
NOW YOUR INSTALLATION IS COMPLETE



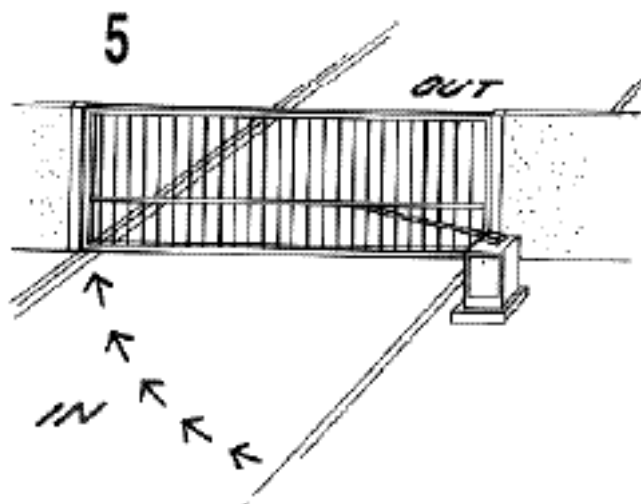
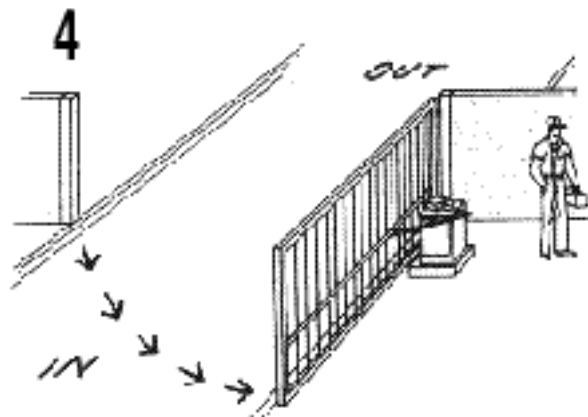
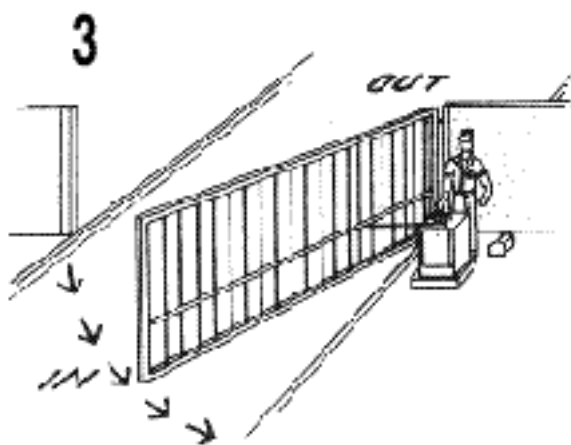
EMERGENCY RELEASE



Unscrew the bolt and remove the stainless steel cover.

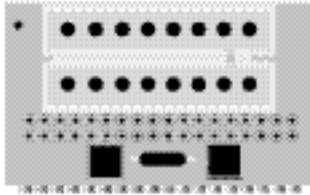


Pull the red handle as shown in the illustration; at this point, the gate is released.



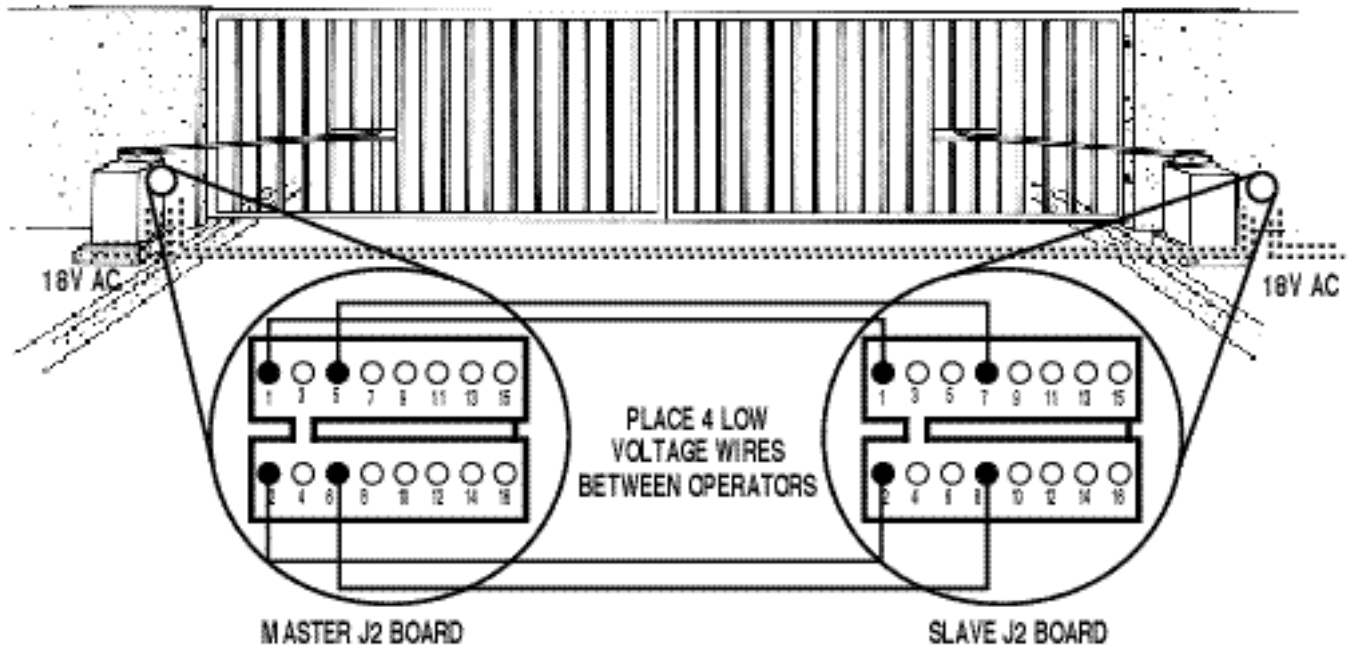
Place the handle and cover in original positions. Once the power is on, the gate will readjust itself automatically.

MASTER AND SLAVE TIMER OPTIONS



OPTIONAL ADDITIONAL INPUT BOARD

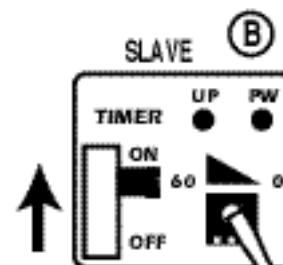
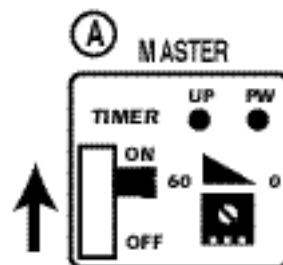
In order to use the master/slave option with the Robo Swing gate operator, you must purchase the Optional Additional Input Board and connect it to the J2 slot at the top of the control board.



CAUTION

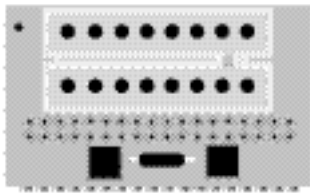
Be sure that both timer switches are in the "ON" position

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



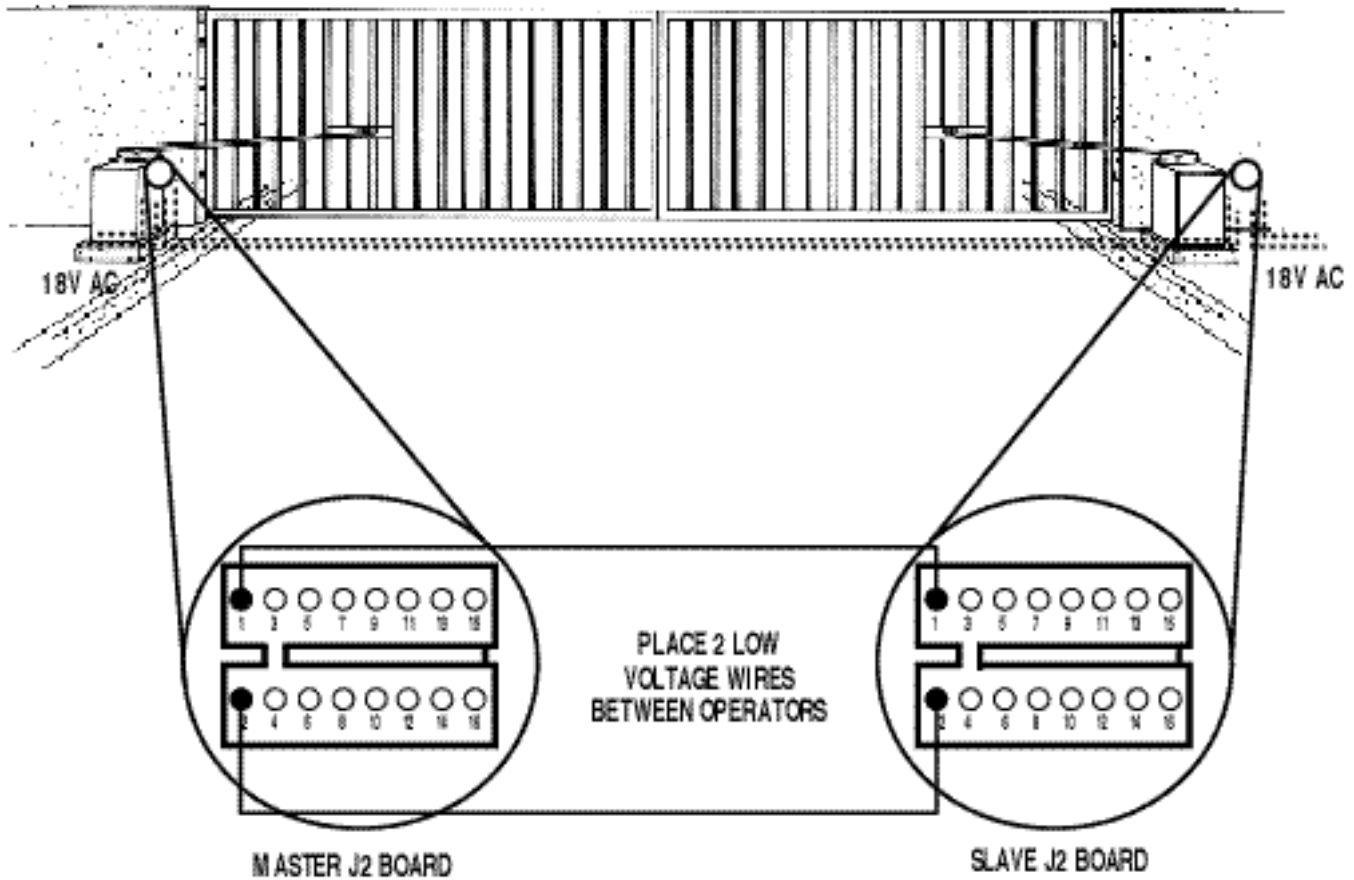
2. Turn the timer pod all the way counter clockwise in the slave gate operator. (illustration B)
3. For time range automatic close adjustment, use the master timer only
4. Do not shut off either of the two timers. Place the timer switches to the "ON" position only.

MASTER AND SLAVE WITH NO TIMER

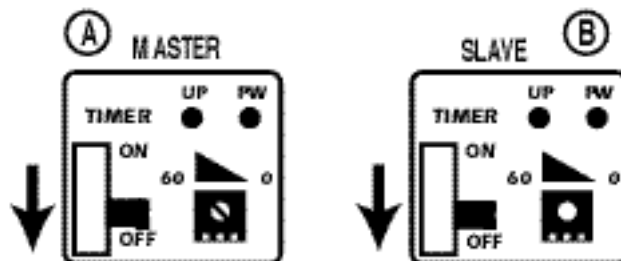


OPTIONAL ADDITIONAL INPUT BOARD

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



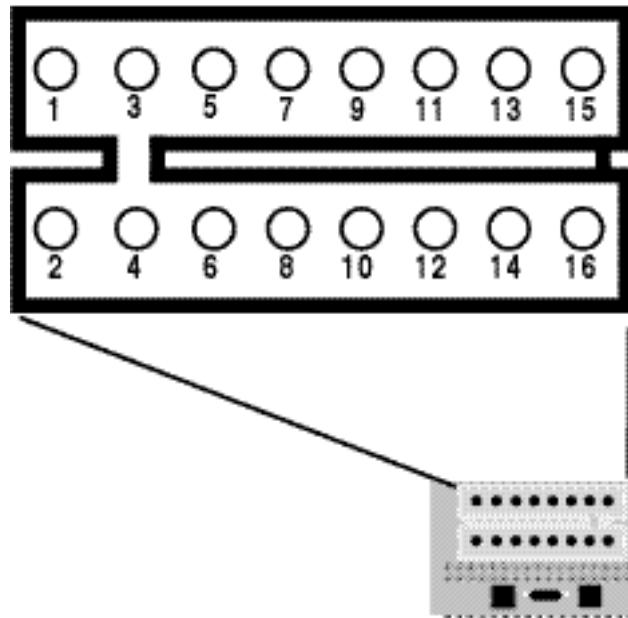
1. Connect pin #1 of master J2 Board to pin #1 of slave J2 Board
Connect pin #2 of master J2 Board to pin #2 of slave J2 Board
2. Be sure both timers are in the "OFF" position



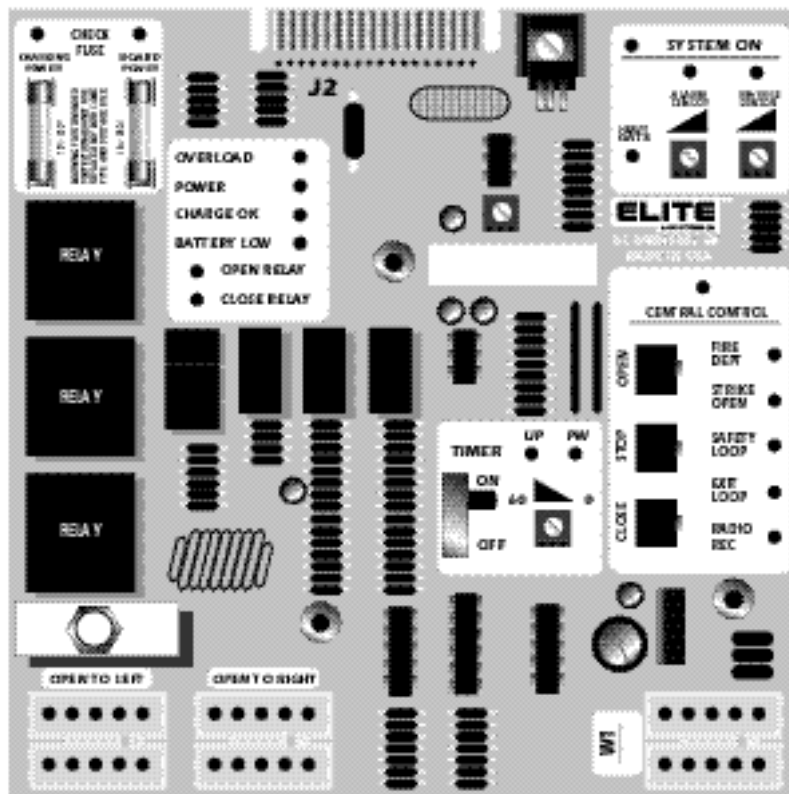
CAUTION
Be sure that both timer switches are in the "OFF" position

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.

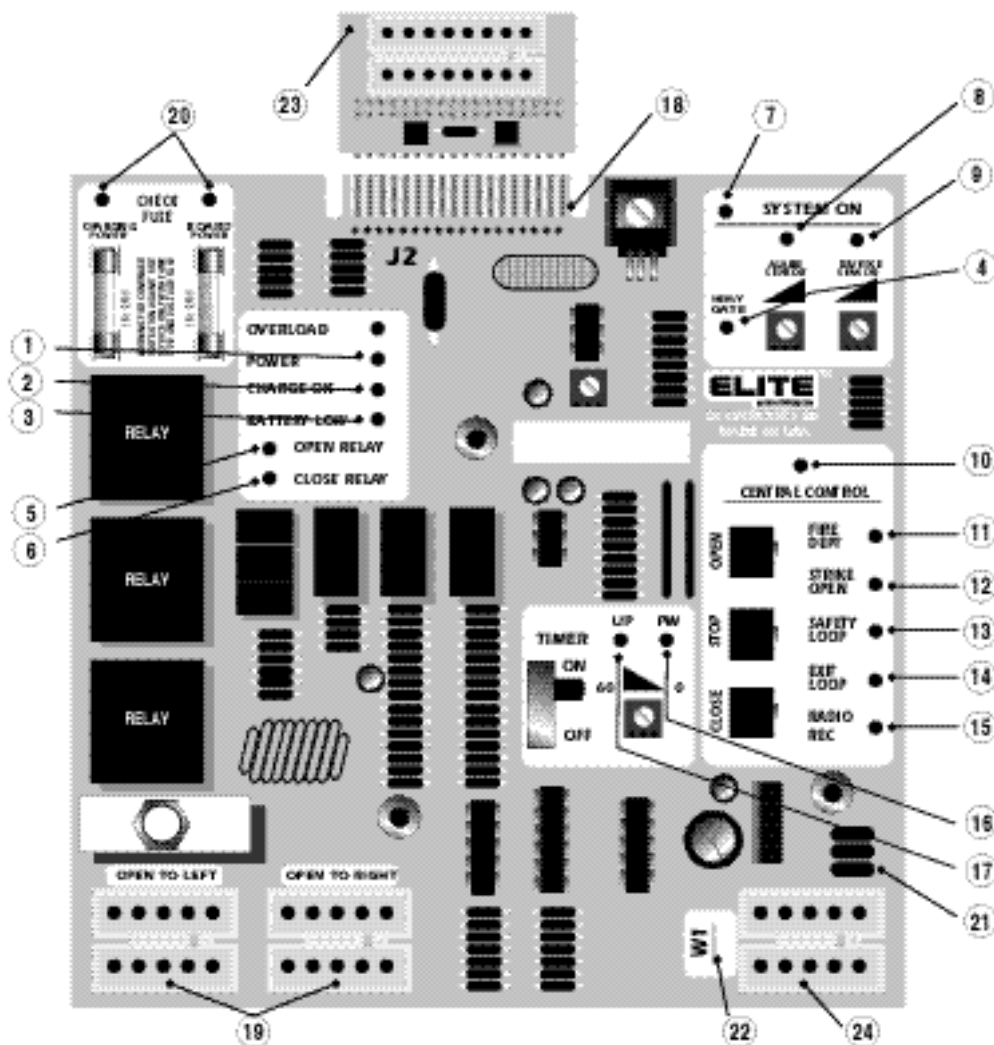


- 1 & 2 OPEN SWITCH
- 3 & 4 STOP SWITCH (CUT W1 JUMPER AT BOTTOM RIGHT CORNER OF BOARD)
- 5 & 6 TIMER CLOSE OUTPUT FROM MASTER TO SLAVE
- 7 & 8 TIMER INPUT FROM SLAVE TO MASTER
- 9 & 10 VANDALISM ALARM OUTPUT (NOT BURGLAR ALARM) - 12VDC
- 11 & 4 EMERGENCY OPEN (DIRECT COMM AND FROM BATTERY TO MOTOR)
- 12 & 7 EMERGENCY CLOSE (DIRECT COMM AND 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 - 18 volt 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</p> <p style="text-align: right;">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</p> <p style="text-align: right;">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</p> <p style="text-align: right;">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</p> <p style="text-align: right;">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</p> <p style="text-align: right;">⑤</p>	Open relay is energized	Open relay is not energized
<p>Closed relay</p> <p style="text-align: right;">⑥</p>	Closed relay is energized	Closed relay is not energized
<p>System on will work only when the gate is in motion</p> <p style="text-align: right;">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</p> <p style="text-align: right;">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 <ul style="list-style-type: none"> • Fire department 1 & 2 • Strike open 3 & 4 • Exit loop 7 & 8 • Radio receiver 8 & 9 • Safety loop 5 & 6 	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

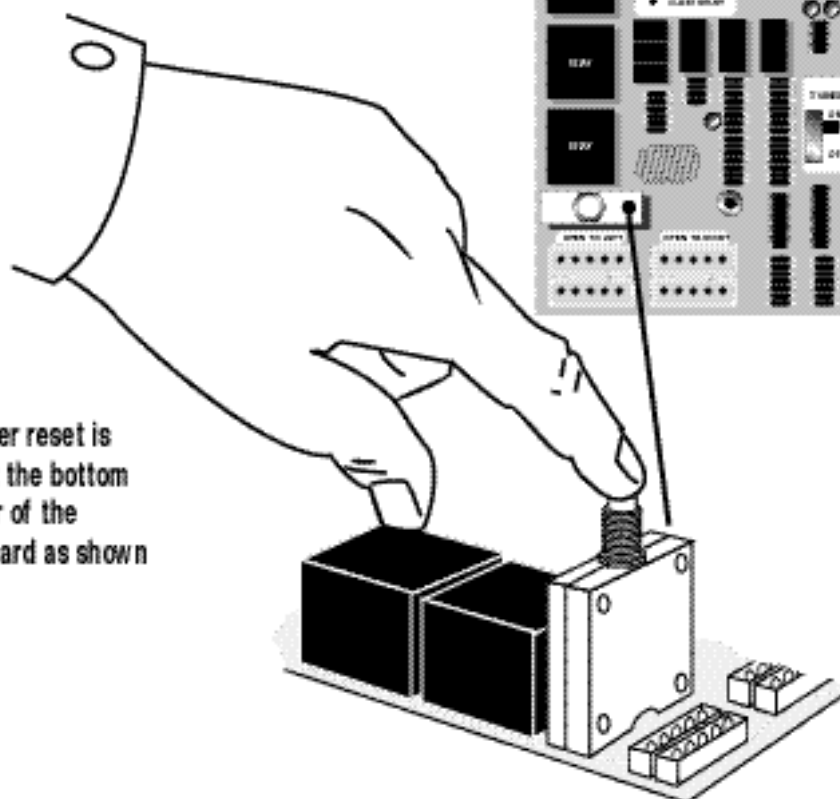
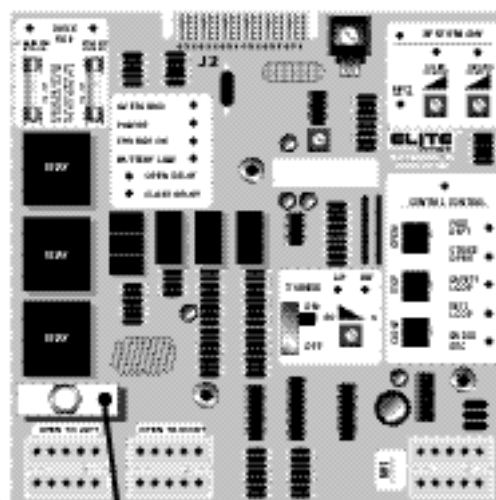
TROUBLESHOOTING

How to reset the Breaker

If all electronic sensors fail or are not adjusted properly due to heavy gates, bad hinges, 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.



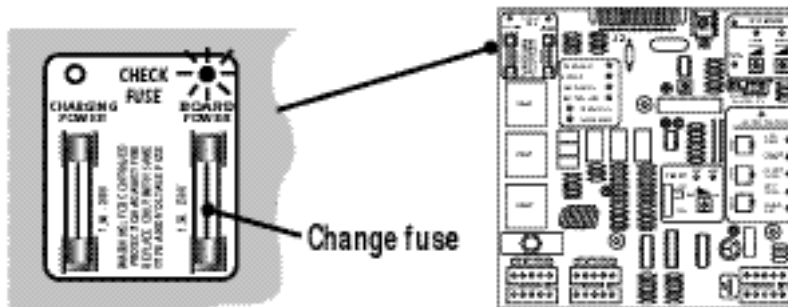
The breaker reset is located at the bottom left corner of the control board as shown

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.

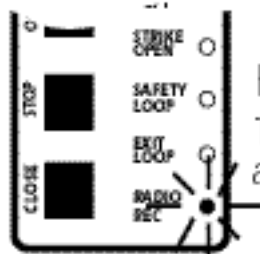


Replace fuse only with 1.5A - 250V fuse (supplied by Elite Access)



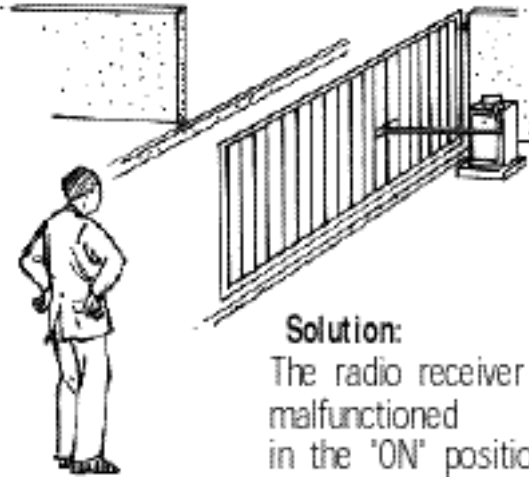
TROUBLESHOOTING

Checking Output Options (example - Radio Receiver)



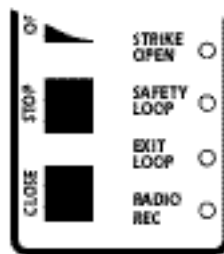
Problem:

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



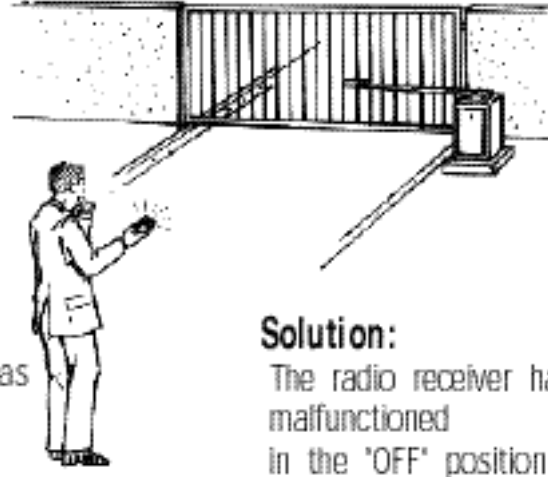
Solution:

The radio receiver has malfunctioned in the 'ON' position



Problem:

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



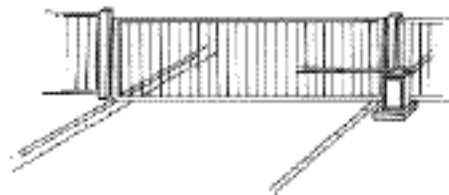
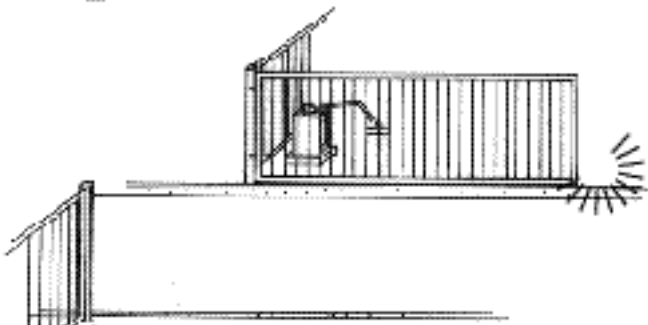
Solution:

The radio receiver has malfunctioned in the 'OFF' position

You will hear a "bip" sound when



1. The gate is too heavy or the arm is installed wrong (Refer to page 4)



2. The gate hits the driveway, curb or other and gets stuck in an awkward position.



3. The gate hinges are too tight or broken and gate is not moving freely

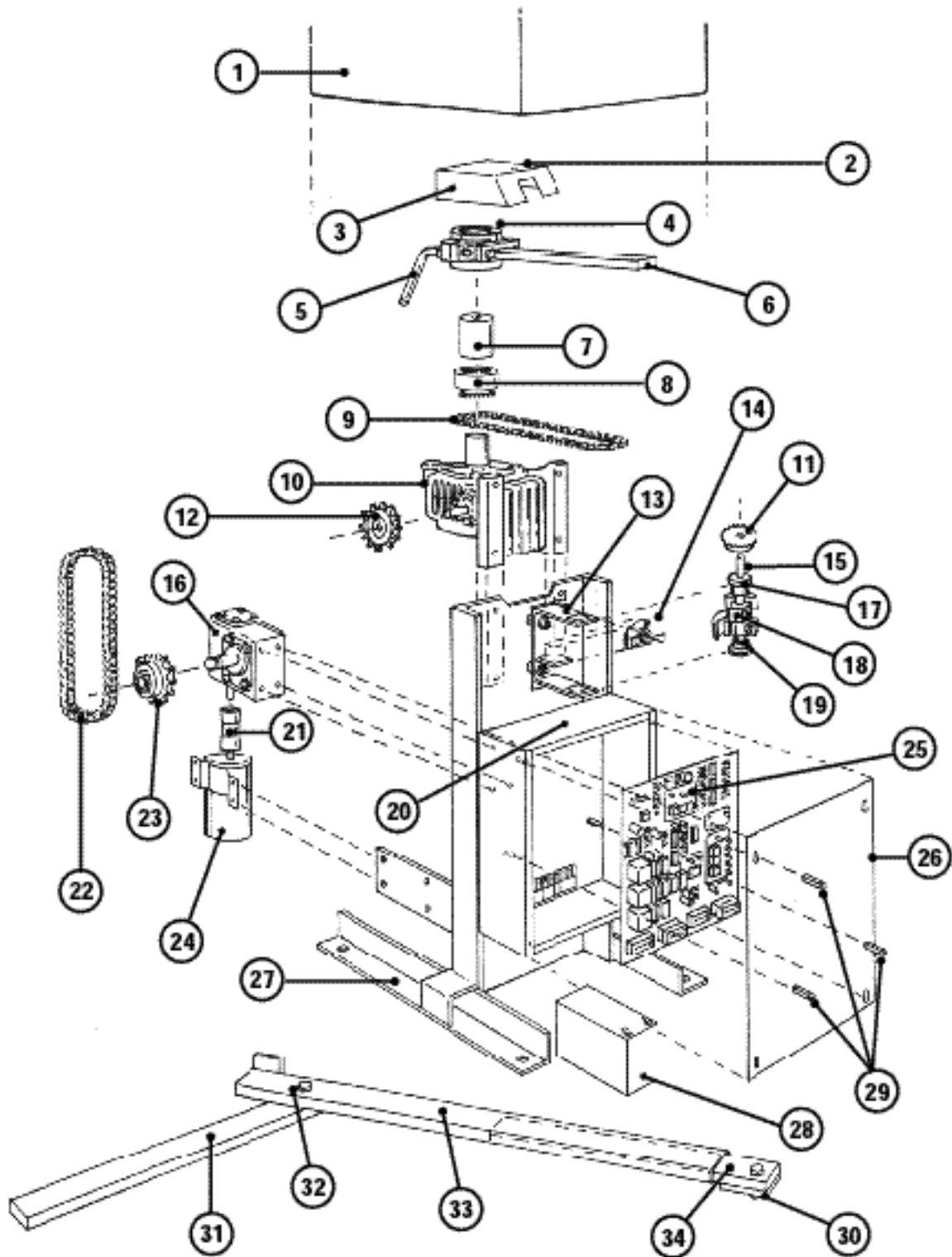


4. An object is on the gate frame while the gate is moving



5. The gate is moving and an object pushes the gate

ROBO SWING PARTS DIAGRAM



ROBO SWING PARTS LIST

1. Fiberglass cover
2. Security bolt
3. Stainless steel cover
4. Torque Limiter
5. Arm release
6. Output arm solid
7. Output shaft 2 1/2"
8. Output shaft sprocket
9. Chain #25
10. Gear reducer (size 60)
11. Sprocket gate adjustment
12. Sprocket (B50-10)
13. Limit switch holder
14. Limit switch
15. Gate adjustment shaft
16. Gear reducer (size 40)
17. Ball bearing
18. Gate adjustment (plastic)
19. Collar 1/2"
20. Electronic box
21. Coupling 2 1/2"
22. Chain #50
23. Sprocket (50 B-16)
24. 12V DC motor
25. Electronic control board
26. Electronic access panel
27. Chassis
28. Battery
29. Electronics board nut set
30. Arm attachment to gate
31. Short arm
32. Bolt & nut
33. Long arm
34. Adjustable solid metal shaft