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Release 6
5/01
IMPORTANT NOTICE

IMPORTANT! Because gate coasting distance varies with temperature, Elite DOES NOT recommend the installation of a catch post. This could cause the gate to collide with the post.

Incorrect Installation using a Catch Post!

Correct Installation with Catch Rollers

Guide Rollers (Elite Part # A UHM)

Gate in Fully Opened Position

Minimum Clearance of 5" Between Back of Gate and Wall or Other Objects in Gate’s Path

Gate Clearances

1/4" Clearance from Top of Gate

1/2" Clearance Between Gate and Rollers

A physical stop MUST be installed on the gate prior to installation of the gate operator. This will assure that the gate does not derail while in motion.

CAUTION
SAFELY OPERATING GATE

Owners Must Never Let Pedestrians Cross the Path of a Moving Gate!

 Owners Must Never Mount Any Gate Operating Devices Accessible In Between the Gate and the Wall!

Owners Must Never Mount Any Gate Operating Devices Accessible Through the Gate!
CONFIGURATION AND SPECIFICATIONS

Elite’s Recommended Gate Setup Configuration

- Warning Signs on Both Sides of Gate
- Over-Travel Stops on Both Ends of Gate Rail
- Guide Rollers
- 2" x 2" Mesh Wire Across Entire Gate
- Guide Rollers
- Warning Sign Clearly Visible on Gate Operator
- 3" Maximum Picket Width
- Steel V-Groove, High Speed Ball Bearing Wheels
- Over-Travel Stops on Both Ends of Gate Rail
- 18 VAC Plug-In Transformer, for Each Gate Operator
- Reinforced Concrete to Bolt Operator on U.L. Listed Underground Conduit for Wires

Robo Slide Specifications:

- **Gate Speed** – 11 inch per second
- **Maximum Gate Length** – 20 feet
- **Maximum Gate Weight** – 800 pounds
- **Maximum Cycles** – 70 cycles per day with Elite’s Plug-In Transformer.
  - Solar power cycles per day varies, Contact Elite for more Information
  - Battery back-up cycles (50 cycles total)
- **AC Power Supply** – 18 VAC 2.0 Amp Plug-In Transformer (Elite Part # A POW-1)
- **AC Power Supply Wire** – 14 gauge or greater landscape lighting cable rated for direct burial and 300 watts at maximum length of 1000 ft
- **DC Power Supply** – Built-in, back-up for AC or Solar power failure only
- **Solar Power** – Optional (Elite Part # SOLAR 3)

Be sure to read and follow all Elite’s instructions before installing and operating any Elite product. Always disconnect the gate operator’s power source before repairs are attempted. Elite Access Systems, Inc. is not responsible for improper installation or failure to comply with local building codes.
Model: Robo Slide For Single Home Applications.

DO NOT Use for Apartment or Condominium Applications.

PLEASE DO NOT REPAIR ME!...UNLESS YOU ARE AN AUTHORIZED SERVICE TECHNICIAN!

Warnings and Precautions

1. Do not tighten chain too tight
2. Use proper type of wheels - only 4" steel wheels with high speed ball bearings
3. Do not use a 12V transformer - use only 18 VAC 2.0 Amp
4. Do not install as a rear-mount installation
5. Use only 14 gauge or greater landscape lighting cable rated for direct burial and 300 watts

STEP 1: Getting Started

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: Mounting Operator

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 fastener).

STEP 3: Chain Installation

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.

Correct Chain Installation

Incorrect Chain Installation

Correct Chain Spacing

Incorrect Chain Spacing

Too High or Too Low
STEP 4: Gate Movement Direction

Plug in the limit/motor harness 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 opens to the right and closes to the left from the inside of the property.
STEP 5: DC Power Supply Connection

Use Elite's optional 18 VAC plug-in transformer (Elite Part # A POW-1). Hook up the transformer to 115 VAC. Use two, low voltage, 14 gauge / 300watt direct burial, landscape lighting cables. Hook these wires to the two yellow wires from the control board to the plug-in transformer.

Do Not use solar panel and plug-in transformer at the same time.

Maximum Wire Length should not exceed 1000 ft.
Polarity Does Not Matter

After the plug-in transformer has been connected to the power source, connect the battery cable plug to the limit/motor harness plug. You will immediately hear a beep for a few seconds. After the beep, check the “Charge OK” LED......

......it must be “ON”.

Limit/Motor Harness

Beep!
STEP 6: Optional Solar Panel Connection

If you use Elite’s optional solar panel (Elite Part # Solar 3). Connect the two wires from the solar panel to the two yellow wires on the control board. Sunlight will energize the batteries through the solar panel. This solar panel will charge up to 2800 Mamp/Hr in optimum conditions & 500 Mamp/Hr in light overcast conditions. For detailed specifications consult the Solar 3 Installation sheet.

Do Not use solar panel and plug-in transformer at the same time.

Energizing Robo Slide with solar power only needs the radio receiver to operate the gate. The only recommended external devices other than radio receivers are dry-contact command devices which do not consume any current like key switches. Using other devices that consume high current such as telephone access, magnetic locks or loop detectors will cause excess drainage of the battery and eventually completely drain the battery.

Elite recommends using 1 or 2 larger batteries (12 VDC, 30 Amp) (Elite Part # A 12330 or A 12330 PACK) in Robo Slide when using the optional solar panel.

For More Details, contact your Local Dealer
STEP 7: Terminal Connections

The radio receiver must be 12 VDC only (Elite Part # A 1099-12V). If you want to use safety or exit loops, you must use 12 VDC loop detectors only (Elite Part # A 23). 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 -). Connections for other devices are shown below.
STEP 8: Adjusting Gate Travel Distance

Adjustment is done by limit switches which are located on the Robo Slide chassis. By pressing the plate down and spinning the adjustment nuts, 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. If you want to use the push open or push close command, the timer should be switched to the “OFF” position.
STEP BY STEP INSTALLATION

STEP 10: Two-Way Adjustable Reversing Sensor

There is a blue pot with a white screw adjustment on the upper portion of the control board marked “REVERSE SENSOR”. Do Not Touch Alarm Sensor blue pot.

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 function properly.

NOW YOUR INSTALLATION IS COMPLETE
**OPTIONAL INPUT BOARD**

The optional board allows 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. Below lists the function of each pin.

1 & 2  Open Switch
3 & 4  Stop Switch (Cut W1 Jumper at Bottom 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) - 12 VDC
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 Operators Only)
To use the master/slave option with Robo Slide, you must purchase the Optional Input Board (Elite Part # Q203) and connect it to the J2 slot. Refer to Optional Input Board.

Caution: 18 VAC plug-in transformer, per gate operator required.

1. Make master/slave J2 plug connections as shown above.
2. Turn timers on BOTH control boards to the “ON” position.
3. Use MASTER timer ONLY for the auto close time adjustment (0 to 60 sec).
4. Turn the SLAVE timer adjustment all the way Counterclockwise.
MASTER AND SLAVE WITHOUT TIMER

To use the master/slave option with Robo Slide, you must purchase the Optional Input Board (Elite Part # Q203) and connect it to the J2 slot. Refer to Optional Input Board

Caution: 18 VAC plug-in transformer, per gate operator required

1. Make master/slave J2 plug connections as shown above
2. Turn timers on BOTH control boards to the “OFF” position
CONTROL BOARD FUNCTIONS

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, 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-Up indicator
18. J2 alternate optional output
19. Movement direction sockets
20. Replace fuse indicator
21. Spike suppressor
22. Jumper for stop button
23. Optional Input board
24. Plug in power - 18 VAC or solar panel and terminal block connector
25. Breaker reset
26. Overload LED
# LED Description

<table>
<thead>
<tr>
<th>LED Description</th>
<th>LED On</th>
<th>LED Off</th>
</tr>
</thead>
</table>
| **1** Power at all times when there is one or more power sources ie: Battery, 18 VAC or solar | Power source OK and board power fuse OK | 1. No power source at all  
If dimmed down  
1. Bad board power fuse |
| **2** Charger OK on when there is any charging power ie: 18 VAC - solar | Transformer or solar OK and charging power fuse OK | 1. No Transformer or Solar  
If dimmed down  
1. Bad Charging power fuse |
| **3** Battery Low normally off - it will indicate low battery | 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 |
| **4** Heavy Gate will work only when the gate is in motion | 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 |
| **5** Open Relay | Open relay is energized | Open relay is not energized |
| **6** Close Relay | Close relay is energized | Close relay is not energized |
| **7** System On will work only when the gate is in motion | Detecting motor current | 1. Motor stop  
2. No motor current detected |
| **8** Alarm Sensor when LED goes on you will hear a beep sound for about 20 seconds | 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 |

Note: Circled red numbers indicates location on control board. Refer to Control Board Functions
<table>
<thead>
<tr>
<th>LED Description</th>
<th>LED On</th>
<th>LED Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 Reversing Sensor</td>
<td>Sensor is detecting obstruction</td>
<td>No obstruction is detected</td>
</tr>
<tr>
<td>10 Central Control</td>
<td>Acknowledgement of receiving open command from one of the terminals</td>
<td>Not receiving any command</td>
</tr>
<tr>
<td></td>
<td>• Fire Department 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Strike Open 3 &amp; 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Safety Loop 5 &amp; 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Exit Loop 7 &amp; 8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Radio Receiver 8 &amp; 9</td>
<td></td>
</tr>
<tr>
<td>11 Fire Dept</td>
<td>Receiving signal at terminal block 1 &amp; 2</td>
<td>Not receiving signal at terminal block 1 &amp; 2</td>
</tr>
<tr>
<td>12 Strike Open</td>
<td>Receiving signal at terminal block 3 &amp; 4</td>
<td>Not receiving signal at terminal block 3 &amp; 4</td>
</tr>
<tr>
<td>13 Safety Loop</td>
<td>Receiving signal at terminal block 5 &amp; 6</td>
<td>Not receiving signal at terminal block 5 &amp; 6</td>
</tr>
<tr>
<td>14 Exit Loop</td>
<td>Receiving signal at terminal block 7 &amp; 8</td>
<td>Not receiving signal at terminal block 7 &amp; 8</td>
</tr>
<tr>
<td>15 Radio Rec</td>
<td>Receiving signal at terminal block 8 &amp; 9</td>
<td>Not receiving signal at terminal block 8 &amp; 9</td>
</tr>
<tr>
<td>16 Timer PW</td>
<td>Timer power is on</td>
<td>Timer is not on</td>
</tr>
<tr>
<td>17 Timer UP</td>
<td>Output signal to close relay</td>
<td>Not receiving signal to close relay</td>
</tr>
</tbody>
</table>

Note: Circled red numbers indicates location on control board. Refer to Control Board Functions
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.

How to 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 with 1.5A - 250V fuse

Robo Fuse
(Elite Part # Q162)
The Gate Will Not Close!

Symptom: The radio receiver LED on the control board remains “ON” when using the remote control.

Possible Solutions: Stuck remote control button. The radio receiver has malfunctioned in the “ON” position.

The Gate Will Not Open!

Symptom: The radio receiver LED on the control board remains “OFF” when using the remote control.

Possible Solutions: Dead battery in the remote control. Remote control code switches are different from radio receiver code switches. The radio receiver has malfunctioned in the “OFF” position.

For further information, contact your local dealer.
TROUBLESHOOTING and PARTS LIST

If you hear a “BEEP” sound, the gate is too heavy. If not check below.

1. Debris is on the gate’s track such as mud, rocks dirt, etc.
2. The gate is hitting a wall or a car.
3. The gate has one or more broken wheels.
4. A car has hit the gate and the gate is off the track.

After fixing the problem, the Robo Slide will automatically reset itself.

Robo Slide Parts List

<table>
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<th>Robo Slide Conversion Kit</th>
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<tbody>
<tr>
<td>Q204 -</td>
</tr>
<tr>
<td>Q211 - Limit/Motor Harness</td>
</tr>
<tr>
<td>Q218 - Terminal Harness</td>
</tr>
<tr>
<td>Q206 - Control Board</td>
</tr>
<tr>
<td>Battery Harness</td>
</tr>
<tr>
<td>A BT 12 - 12 VDC, 7 amp. Battery with Harness</td>
</tr>
<tr>
<td>A H-110 - Gate Chain #41 (10 ft) (20 ft included)</td>
</tr>
<tr>
<td>A H-111 - Gate Chain #40 (10 ft) Optional</td>
</tr>
<tr>
<td>A H-113 - Master Link</td>
</tr>
<tr>
<td>A H-125 - Master Link</td>
</tr>
<tr>
<td>Q003 - Chain Bolt</td>
</tr>
<tr>
<td>Q004 - Chain Bracket</td>
</tr>
<tr>
<td>Q006 - PC Board Nuts (1 Set)</td>
</tr>
<tr>
<td>Q029 - Limit Switch</td>
</tr>
<tr>
<td>Q032 - Limit Switch Adjustment Nut</td>
</tr>
<tr>
<td>Q101 - Limit Switch Bearing Holder</td>
</tr>
<tr>
<td>Q123 - Motor - DC - 12V</td>
</tr>
<tr>
<td>Q124 - Chassis</td>
</tr>
<tr>
<td>Q129 - Idler Sprocket with Bolt/Nut</td>
</tr>
<tr>
<td>Q131 - Limit Switch Drive Sprocket</td>
</tr>
<tr>
<td>Q132 - Limit Switch Sprocket</td>
</tr>
<tr>
<td>Q133 - Drive Sprocket</td>
</tr>
<tr>
<td>Q135 - Limit Switch Bolt (Shaft)</td>
</tr>
<tr>
<td>Q137 - Limit Switch Box</td>
</tr>
<tr>
<td>Q156 - 1/2 Inch Collar</td>
</tr>
<tr>
<td>Q162 - Fuse</td>
</tr>
<tr>
<td>Q180 - 1 inch Diameter Coupling</td>
</tr>
<tr>
<td>Q203 - Option Board with Harness</td>
</tr>
<tr>
<td>Q206 - Control Board</td>
</tr>
<tr>
<td>Q211 - Limit/Motor Harness</td>
</tr>
<tr>
<td>Q212 - Gear Reducer 40 - 30:1</td>
</tr>
<tr>
<td>Q218 - Terminal Harness</td>
</tr>
<tr>
<td>Q241 - Cover, Polyethylene Plastic</td>
</tr>
</tbody>
</table>

Multiple Parts “Q” Number
ROBO SLIDE PARTS

Note: * Sold Individually, 2 Shown.  
For part names, refer to parts list