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## Optional Accessories

34-36 Transmitter
37-38 Homelink
39-40 Battery Pack
41 Memo
42 Somlink
43 Senso
NOTE: weights will vary based on additional hardware that is ordered. The weight is per 8ft section of rail with motor and unit housing.

REQUIRED TOOLS & PERSONAL PROTECTION EQUIPMENT

Fig. Recommended tools and personal protective equipment for installation.

You will require the tools shown to assemble and install the opener. Lay out the required tools beforehand to ensure fast and safe installation.
<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>91525A140</td>
<td>3/8” x 1-1/2” Washer</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Ring Spacer .75”</td>
<td>3/8” x 7/8”</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>90566A031</td>
<td>3/8” Nylon Lock-Nut</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>92865A628</td>
<td>3/8” x 1” Bolt</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>91247A639</td>
<td>3/8” x 3-3/4” Bolt</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>98930A390</td>
<td>3/8” x 1” Carriage Bolt</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>90591A161</td>
<td>3/8” Lock Washer</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>1.5” X .375” lag bolt</td>
<td>3/8” Nut</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>1.5” X .375” lag bolt</td>
<td>3/8” x 1-1/2” Lag Screw</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>Bracket, Edison opener, sliding</td>
<td>Bracket, Face-Mount, Trim to Length</td>
<td>Steel, Mild</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>Edison opener arm, boomerang curved brace</td>
<td>Arm, curved, Edison, opener</td>
<td>Steel, Mild</td>
</tr>
</tbody>
</table>
PARTS INCLUDED

1. Additional header bracket and pin with 2 locking c-clips
2. Ceiling bracket, 2-parts
   • Receive only one with 9ft track
   • Receive additional ceiling bracket, magnet coupler, master link
     and chain with each connecting track extension
3. Wire Connector
4. Optional 2nd remote
5. Additional transmitter (not preprogrammed)
6. ¾” “L” bracket

NOTE: Ceiling mount hardware is not provided with ceiling applications.

SAFETY SENSOR CONTENTS

1. 2 wires, length 32” 9” (10 m)
2. 1 transmitter safety sensor (green sticker)
3. 1 receiver safety sensor (red sticker)
4. 1 mounting bracket left
5. 1 mounting bracket right
6. 2 wing nuts M6
7. 2 carriage bolts M6
8. 4 screws 3/8”
NOTE: It is recommended to have at least 17” to the side of the opening (for Open end) to house the motor carriage. This allows for the door to clear the opening.

SIDE MOUNT

CEILING MOUNT
We have three different motor sizes available for Edison (sliding door) applications. Fremont openers (swing out) only require the 3/4hp because the weight is held by the hinges.

- 3/4hp is equipped for up to 800lbs (push force rating) or 600 newtons
- 1hp is equipped for up to 1100lbs (push force rating) or 800 newtons
- 1hp HD is equipped for 1500lbs (push force rating or 1500 newtons)

3.8 Technical data

<table>
<thead>
<tr>
<th></th>
<th>3/4 HP</th>
<th>1 HP</th>
<th>1 HP HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>AC 120 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated frequency</td>
<td>60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of programmable remote buttons</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duty cycle</td>
<td>40 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission value according to operating environment</td>
<td>&lt; 59 dBA – opener only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP code</td>
<td>NEMA1, IP21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>class 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard door height</td>
<td>7” and 8’ doors (&lt; 2,750 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. door height with extensions</td>
<td>24 ft. (up to 2 x 3.59 ft., 3 x 3.59 ft., 4 x 3.59 ft.)</td>
<td>(7.10 m / up to 2 x 1.09 m, 3 x 1.09 m, 4 x 1.09 m)</td>
<td></td>
</tr>
<tr>
<td>Speed *</td>
<td>0.4 inch/sec. (240 mm/s)</td>
<td>0.3 inch/sec. (210 mm/s)</td>
<td>0.4 inch/sec. (120 mm/s)</td>
</tr>
<tr>
<td>Max. traction and pressure force</td>
<td>600 N (0.75 HP)</td>
<td>800 N (1 HP)</td>
<td>1100 N (1.25 HP)</td>
</tr>
<tr>
<td>Max. current consumption **</td>
<td>1.0 A</td>
<td>1.3 A</td>
<td>1.5 A</td>
</tr>
<tr>
<td>Power consumption on power-saving mode</td>
<td>&lt; 1 W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Depending on door and the operating conditions
** Values apply without lighting

The Edison operator can run up to 25ft right out of the box and can be programmed to operate up to 30ft. The control board has a motor brake function, meaning if the motor speed is exceeded, the motor brake actively uses the brake resistor. There are also terminals that allow you to hook up to your home automation system. Force process and positions are known at all times by the control unit, and any changes (attempted break in) will be recognized. Because of the learn mode, the motor will learn the force required to move the door. This means the operator will not run at full strength (unless needed), but instead adapts to your application. With this operator there is only one limit switch that needs to be installed, and the motor carriage is simply laid out and pre-installed on the rails.
MOTOR CARRIAGE

Current Collector Track

Limit Switch

Collector Chain Plate

Double Hall Sensor

Lock

Channels

Buzzer / Alarm

Motor Break

Dip Switches

Reset Button

Wicket Door Terminal

Safety Edge

Motion Detector

Sensor For Humidity Sensor

Home Link

Memory Extension

Red LED (Feedback)
### Connection options on the carriage

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LED, CH 1 - CH 4, red</td>
</tr>
<tr>
<td></td>
<td>Display for radio channel</td>
</tr>
<tr>
<td>2</td>
<td>MAGNET slot, green</td>
</tr>
<tr>
<td></td>
<td>Lock terminal</td>
</tr>
<tr>
<td>3</td>
<td>Slot, blue</td>
</tr>
<tr>
<td></td>
<td>Limit switch terminal (OPEN), limit</td>
</tr>
<tr>
<td>4</td>
<td>pcb label</td>
</tr>
<tr>
<td>5</td>
<td>LEDs, opener lighting</td>
</tr>
<tr>
<td>6</td>
<td>MEMO slot</td>
</tr>
<tr>
<td></td>
<td>Memo terminal</td>
</tr>
<tr>
<td>7</td>
<td>USART slot</td>
</tr>
<tr>
<td></td>
<td>Interface</td>
</tr>
<tr>
<td>8</td>
<td>BUZZER slot, black</td>
</tr>
<tr>
<td></td>
<td>Warning or alarm buzzer terminal</td>
</tr>
<tr>
<td>9</td>
<td>SENSO slot</td>
</tr>
<tr>
<td></td>
<td>Senso terminal</td>
</tr>
<tr>
<td>10</td>
<td>LASER slot, white</td>
</tr>
<tr>
<td></td>
<td>Parking position laser terminal</td>
</tr>
<tr>
<td>11</td>
<td>Terminal for safety contact strip</td>
</tr>
<tr>
<td></td>
<td>8k2/OSE</td>
</tr>
<tr>
<td>12</td>
<td>Terminal for wicket door contact</td>
</tr>
<tr>
<td></td>
<td>potential-free</td>
</tr>
<tr>
<td>13</td>
<td>Status LED, green</td>
</tr>
<tr>
<td>14</td>
<td>Reset button, green</td>
</tr>
<tr>
<td>15</td>
<td>DIP switches</td>
</tr>
<tr>
<td>16</td>
<td>Radio button, red (radio)</td>
</tr>
</tbody>
</table>

The version can vary depending on the type. This means the use of accessories can vary.
### 7.3 Connection options on the carriage

<table>
<thead>
<tr>
<th>PCB section</th>
<th>Function/application example</th>
</tr>
</thead>
</table>
| **MAGNET slot, green** | Lock terminal  
Locking magnet |
| ** MEMO slot** | Memo terminal  
Memory expansion for 450 transmitter commands |
| **USART slot** | Terminal e.g. module  
Home Automation |
| **SENSO slot** | Terminal for Senso  
Humidity sensor |
| **BUZZER slot, black** | Terminal for warning or alarm buzzer |
| **LASER slot, white** | Terminal for parking position sensor |
| **MOTION slot, white** | Terminal for movement sensor  
3-pin |
| **Safety contact strip 8k2 terminal** | |
| **OSE safety contact strip terminal** |  
+ 12 V = BR  
OSE = GN  
GND = WH |
| **Wicket door fuse terminal** | (wicket door switch, reed contact etc.)  
Contact command  
(12 V/10 mA) normally closed contact, potential-free |

### pcb section | Function/application example

Output 12 V/DC  
max. 100 mA, + 12 V, GND = WH  
Power supply for optional accessories, finger scanner or external lighting

The version can vary depending on the type. This means the use of accessories can vary.

For more information on the accessories, contact your qualified dealer or see: **www.sommer-usa.com**

Observe in particular the following safety instructions for this chapter.

---

**DANGER**

Danger due to electric current!

Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

- All work on electrical components may only be carried out by a trained electrician.
- The accessories must only be connected if the opener is disconnected from the power!
- Disconnect the mains plug before working on the opener. If a battery pack is connected, disconnect it from the ceiling control unit.
- Then check that the opener is disconnected from the power supply and secure it from switching on again.

---

**WARNING**

Danger due to optical radiation!

Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

- Do not look directly into an LED.
MOTOR CARRIAGE

The standard setup (without extra memory) can memorize up to 40 commands, and each channel utilizes 10 of those. If all 4 channels are used you can have up to 10 remotes.

DIP SWITCHES

Note: For sliding door applications Dip 3 on the motor carriage must be turned on before powering up the operator.

<table>
<thead>
<tr>
<th>LED</th>
<th>Radio channel</th>
<th>Setting/function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CH 1</td>
<td>Pulse mode</td>
</tr>
<tr>
<td>2</td>
<td>CH 2</td>
<td>Partial opening or lighting function</td>
</tr>
<tr>
<td>3</td>
<td>CH 3</td>
<td>Defined OPEN</td>
</tr>
<tr>
<td>4</td>
<td>CH 4</td>
<td>Defined CLOSED</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ON</th>
<th>OFF (Factory Setting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic closing activated</td>
<td>Automatic closing deactivated</td>
</tr>
<tr>
<td>Partial opening active</td>
<td>Illumination-function</td>
</tr>
<tr>
<td>Side-opening sectional door</td>
<td>Sectional door</td>
</tr>
<tr>
<td>Retractable door</td>
<td></td>
</tr>
</tbody>
</table>
RESET BUTTON

The length of time the reset button is pressed will define what is reset see below options.

- 1-2 seconds will reset the safety devices
- 5 seconds the force values will be deleted
- 10 seconds the end position (or close) will be deleted
- 30 seconds will be full factory reset

CONTROL UNIT HOUSING
Connection options to the ceiling control unit

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DIP switches</td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>ACCU slot</td>
<td>Terminal 2-pin</td>
</tr>
<tr>
<td></td>
<td>Terminal for battery pack</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>Slot, keypad, black</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Terminal for the button connector cable of the pro+</td>
<td></td>
</tr>
<tr>
<td></td>
<td>wall control unit</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Slot</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Terminal for relay</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Terminal, 2-pin power supply</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>120 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Terminal, 2-pin</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>transformer primary side</td>
<td></td>
</tr>
<tr>
<td></td>
<td>120 V AC 50/60 Hz</td>
<td></td>
</tr>
</tbody>
</table>

The version can vary depending on the type. This means the use of accessories can vary.
## Control Unit Housing

<table>
<thead>
<tr>
<th>PCB Section</th>
<th>Function/Application Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCU</td>
<td>Battery slot, terminal for battery pack</td>
</tr>
<tr>
<td>KEYPAD</td>
<td>Slot, black (only for typ pro+), terminal for the button connector cable of the wall control unit</td>
</tr>
<tr>
<td></td>
<td>Slot for relay, switching capacity, max: 5 A/120 V AC, max: 5 A/24 V DC</td>
</tr>
<tr>
<td></td>
<td>Terminal, 2-pin, power supply, 120 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>Terminal, 2-pin, transformer primary side, 120 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>Terminal, 2-pin, 24 V AC transformer secondary side</td>
</tr>
<tr>
<td></td>
<td>Terminal, 2-pin, chain and track, 24 V AC</td>
</tr>
<tr>
<td>Light slot</td>
<td>Light slot, white, slot for Lumi+ supplementary lighting</td>
</tr>
<tr>
<td></td>
<td>Terminal for 2-wire safety sensors, any polarity</td>
</tr>
<tr>
<td></td>
<td>Terminal, 2-pin, wall station or button 2, potential-free</td>
</tr>
</tbody>
</table>

The version can vary depending on the type. This means the use of accessories can vary.
Service the opener regularly as directed below. This ensures safe operation and a long service life for your opener.

<table>
<thead>
<tr>
<th>How often?</th>
<th>What?</th>
<th>How?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Test the emergency release</td>
<td>• See chapter “12.7 Function of the emergency release”</td>
</tr>
<tr>
<td></td>
<td>• Test the obstacle detection</td>
<td>• See chapter “11.1 Testing obstacle detection”</td>
</tr>
<tr>
<td>Once a month</td>
<td>• Test the safety sensors</td>
<td>• Interrupt the active safety sensors while the door is closing. The door must stop and open slightly or completely if automatic closing is activated.  • If necessary clean the safety sensors, see chapter “13.3 Care”</td>
</tr>
<tr>
<td></td>
<td>• Test the door and all moving parts</td>
<td>• As directed by the door manufacturer</td>
</tr>
<tr>
<td></td>
<td>• Check screws on door, ceiling or header</td>
<td>• Check that screws are tight and tighten if necessary</td>
</tr>
<tr>
<td>Once a year</td>
<td>• Chain and track</td>
<td>• Maintenance-free</td>
</tr>
<tr>
<td></td>
<td>• Track</td>
<td>• See chapter “13.3 Care”</td>
</tr>
<tr>
<td>As needed</td>
<td>• Clean ceiling control unit and carriage housing</td>
<td>• See chapter “13.3 Care”</td>
</tr>
</tbody>
</table>
CLEANING

Clean track, carriage and ceiling control unit

1. Pull the power plug out of the power outlet. If a battery pack has been installed, remove the ceiling control unit cover and disconnect the battery pack from the ceiling control unit. See also chapter “8.1 Installing and removing battery pack.” Then check that the power is disconnected.

2. Remove loose dirt with a moist, lint-free cloth:
   - from the carriage and the ceiling control unit
   - from the track and the inside of the track
3. If applicable, install the battery pack in reverse order of removal.
   ⇒ Plug the power plug into the power outlet.

Clean safety sensors

![Image of safety sensor cleaning](image)

**NOTE**

Do not change the position of the safety sensors when cleaning them.

1. Clean the housing reflectors with a moist, lint-free cloth.

ADDITIONAL INFORMATION

For other detailed information please refer to the Sommer (manufacturer) manual.

- Connection diagrams for DIP switches can be found on page 80
- Connections and special functions for the Motor Carriage like adjusting the light function, partial opening, deleting transmitter and channels page 45-50
- Trouble shooting page 67
INSTALLATION

This opener is easy to install right out of the box whether it is for sliding or swing out applications. Real Carriage Door Co has provided two mounting options to fit your specific application. The control unit housing mounts to the back of the rail for standard applications, this is not the case if using for Fremont applications or when you do not have the mounting space for sliding doors. An alternative mounting solution includes a wire connector, which is inserted in the back of the rail which will allow the control housing to be mounted on the wall as its' own station. The whole opener unit may be flipped for opposite sliding directions.

STANDARD EDISON SLIDING APPLICATION

- Where the boomerang arm attaches to the motor carriage is the closing end of the rail
- The control housing or wire connector end is on the same end as the red limit stop or open side

CONNECTING THE RAILS

1-a. Take your rails and parts boxes out and set aside. Slide the bridges (part3) onto each end of Part 2 (track with motor carriage).

1-b. Proceed to slide other rails (part 4) into the bridges until they meet with the edges of Part 2.
For Sliding Edison applications you can install the Control Unit housing or wire connector on the red limit stop end, for Swing out Fremont you must install the wire connector.

2-a. Stretch the chain across the length of the track. Proceed to attach either the Control Unit Housing (part 1) or the Wire Connector to the open side of the track.

2-b. With **Control Housing Unit** install twist the chain 90 degrees and slide into chain holder and control unit. Rotate chain back to lock into place. No chain tightening required.
WIRE CONNECTOR INSTALLATION

2-c. For wire connector applications (always for Fremont) please follow the same instructions for the closing end with chain tensioner (part 5)

CHAIN TENSIONER INSTALLATION

3-a. Slide chain tensioner (part 5) into opposite end of the track, stretch the chain and rotate it 90 degrees so it slides into the chain holder. Make sure the tensioner is loosened before attaching chain.

3-b. Rotate the chain back so it locks into place. Tighten the tensioner bolt with socket (1/2”) until the washer hits the arrow (or triangle).
3-c. For wire connector applications you will need to disconnect the wiring from the control unit housing. The wires from the wire connector will be installed the same as the unit housing, and color wires remain the same. You will need to remove the transformer to reach the red wire in the neck of the control unit housing. Feed the wires through the neck, and re-attach to
ATTACHING THE BLACK CEILING BRACKET

4-a. To install the ceiling bracket (part 6) take the ¾” L bracket and insert the bolts (part 7) through the bracket where the hollowed-out notch is on each side (this is what mounts it to the wall). You may have additional ceiling brackets depending on your length of rail. Place one side against the top of the rail, and the other at the bottom facing each other. Slide the pieces together so they interlock. To tighten the bolts first hand tighten them and then with a socket only 1-2 more revolutions. It is important to not over-tighten.

Note: do not force the pieces together, they should interlock easily. Make sure they are firmly pressed against rail and the brackets are aligned.

4-b. For 8ft applications the ceiling bracket attaches in the middle of the rail. Per extension you will receive another ceiling bracket. They do not fit over the bridges.
Note: For sliding door applications on the motor carriage control board, dip switch 3 must be turned on before powering up the operator.

MOUNTING THE EDISON RAIL

5. Proceed to mount the rail above the opening, remember the Edison arm needs to face the closing position. Use the two mounting brackets at each end of the track (with c-clips and bolts) to secure the track and bolt the ¾” L bracket to wall.

For side wall applications the opener rail will amount directly above the opening. The exact position depends on your specific application. Variables consist of obstacles, your jamb, arm and bracket positioning, and space allowed. The limits are adjustable at either end of the rail if you have extra length of rail for your opening size. If you are utilizing the full length of your opener rail, be sure the closing end of the rail allows your door to close fully.

NOTE: For ceiling mount applications please see page 27 in Sommer Manual. We do not provide ceiling mount hardware for this application. You may install/retrofit as needed to achieve mounting as needed. The closing end of the rail is typically set back from the closed door by ½”. The door may be mounted on the interior or exterior of door jamb. Before mounting make sure this measurement will work for your application. Modifications to the position may need to be made to work for your opening.
Please Note:

- Attachment must be to adequate framing or strapping
- Drywall only attachment is not permitted
- The track must not come into contact with the door’s supporting sliding track at any time
- The curved brace may be rotated for maximum flexibility in the install
- When sliding hardware is on the same side as the opener the opener must be ceiling mounted or mounted on a bump out ledger to gain clearance over the sliding hardware.

6. Be sure to slip dip switch 3 for sliding application before plugging the opener into the power outlet.

7-a. Attach the arm to the door

SEE BELOW FOR CEILING APPLICATIONS
SEE BELOW FOR WALL MOUNTING

7-b. Position Door bracket in the desired location on your door, swivel boomerang brace and the U-fitting assembly to determine the best placement. Mark the location of the brace’s two mounting holes.

7-c. Cut the door bracket to length (if desired) and plug the end with the cap provided. Install the bracket onto the door with the hex head lag screws provided. Pre-fill through the bracket where the U-Fitting meets it (this position will change depending on application). Securely fasten the U-Fitting to the bracket with a 1" x ¼" hex head bolt and nut.
INSTALLING SAFETY SENSORS

8-a. The 2-wire safety sensors must be connected to the Control Housing Unit. Initial Operation is not possible without the safety sensors. The photo eyes are automatically detected during initial operation. If you want to use your own wires you can, be sure to use 22 gauge. The photos are labeled with colored stickers. The green is the sender and the red is the receiver. It is very important that the red is not in the direct sunlight as it will detect the beam from the other photo eye. The lights should be solid when they are properly connected, if they are blinking it means they have power but are not aligned properly.

8-b. Do not mount the safety sensors in the area of the moving garage door. Mount at least 1" (25 mm) away from it. The distance between the transmitter and receiver of the safety sensors set can range up to a maximum of 20'. If you have a runtime of over 20’ and do have the ___, please contact customer service.
8-c. The distance from the floor must be selected so that an obstacle of 6” (152 mm) height can be reliably detected. This corresponds to a distance of 2” (50 mm) from the bottom edge of the installation bracket to the floor.

8-d. Mount one safety sensor to the left and one to the right of the door. As a general rule, it does not matter which safety sensor is installed on the left or on the right side. If the safety sensors are exposed to direct sunlight, the receiver (red sticker) should be installed on the side facing away from the sun.

For garages with multiple doors (top view)

Fig. Installation on multiple doors

8-e. Look for a suitable installation position for the mounting bracket (1) inside the garage to the left and the right of the door. Hold the mounting bracket (1) to the wall and mark the mounting points. The distance from the bottom edge of the installation bracket to the floor is 2” (50 mm). The height and angle of the bracket can be adjusted through the slotted holes (2).
8-f. Drill holes for the screws. (3).
8-g. Screw in two screws (3).

8-h. Pre-attach the carriage bolt M6 (1) and the wing nut M6 (2) to the mounting bracket (3).
8-i. Slide the transmitter (4) over the head of the carriage bolt M6 (1) and tighten the wing nut M6 (2). The position of the safety sensors can be adjusted through the slotted holes (5).
8-j. Mount the receiver on the opposite side in the same way.
8-k. Run the two sets of wires (6) from the safety sensors to the ceiling control unit.
8-l. Use staples to keep wires in place
8-m. Connect to control unit.

9-a. Choose an easily accessible location to install the wall station. The distance to the floor must be at least 63" so children cannot reach the wall station. Never run the wires between the wall station and the opener along an on-site power wire, as this can cause malfunctions.
CHOOSING A LOCATION

- outside of the range of motion of the door and opener mechanics
- so the user can see the door directly
- when operating the wall station, the user can remain outside of the range of motion of the door and opener mechanics
- on a flat surface

The wall station is typically mounted directly to the wall with provided screws, it can be wood or drywall applications.

a. Strip off approximately 3/8" of insulation from the wire ends
b. Unscrew the screws 1/8" by 3/8" (2) so that the wire ends can be wrapped around the screws

c. Wrap both stripped wire ends around the screws. It does not matter which wire is wrapped around which screw (polarity proof connection).
d. Tighten both screws and check if the wire ends are held firmly.
e. Select and mark the upper mounting point
f. Insert screw (1/8" x 1.2") far enough (approximately 1/8") so the housing will hang on the wall
g. For drywall installations using a drill with a 3/16" masonry but drill two holes and insert two anchors 3/16".

h. Run the cable through one of the holes, located on the sides or top of the housing.
i. Clip out the cover (1) with a small screwdriver or by pushing it out from the rear
j. Hang the housing (2) and attach it with a 6/32 x 1" screws
k. Fit the cover in on the left side (1) and click it in on the right side (2)
l. Run the wire from the wall station to the Control Unit Housing and secure with suitable material.

m. Connect the wall station wires to the terminal block on the circuit board. The connection is potential-free.

FUNCTIONS OF THE BUTTONS

Abb. Wallstation
- (1) Opening, stopping and closing the door
- (2) Turning the lighting on and off
- (3) Locking or unlocking the operator
ADJUST THE RED LIMIT STOP

9. Set the red limit for the open position by disengaging the motor. To do this pull the red chord (emergency release) until it disengages. This will allow you to move the doors freely to see where the doors need to stop. Position the red stop accordingly and be sure to tighten down.
**BEGIN YOUR AUTOSET PROGRAMMING**

11. Place the door in the halfway open position and re-engage the motor by pulling the red emergency release chord.

**NOTE:** At any time you can trim your emergency chord as needed. See

12. Use the remote for programming the opener, the one included is **preprogrammed already** for your convenience.

**NOTE:** Only the **1st button** is used on the remote for programming purposes.

13. Plug the motor into your power outlet. The status light on the control board should blink rapidly (we recommend taking the motor carriage cover off during install).

14. Press 1st button on the remote until the motor carriage starts to move and release quickly.
The wicket door safety device prevents operation of the door with open wicket doors.

1. The wicket door safety device must be installed so that the switch reliably detects the open doors. **Do not install the wicket door safety device on the hinge side.**
2. Connect the wicket door safety device on the terminal block on the carriage. The contact command is at 12 V/10 mA. The normally closed contact is potential-neutral.
3. Check the function.

---

**INFORMATION**
If the wicket door is opened, the opener lighting on the carriage switches on. If the door closes, the opener lighting lights up for the set lighting time and then switches off. The lighting time can be modified with SOMlink and a WiFi-enabled device.

**INFORMATION**
If the wicket door remains open longer than 60 minutes, the opener lighting switches off automatically after 60 minutes. This value can be changed via SOMlink and a WiFi-enabled device.

**INFORMATION**
If the control unit receives a new command with the wicket door open, the LEDs of the opener lighting change from permanent to blinking light.

---

**Wicket door fuse terminal**
(wicket door switch, reed contact etc.)

**Contact command**
(12 V/10 mA) normally closed contact, potential-free
15. To set the close limit you must program the position for the opener to learn. Because the Edison arms have a lot of flexibility and the motors are very strong we highly recommend that you do not let the opener hit the end stop on your sliding hardware. The motor will try to push through the resistance while it is in learning mode and will result in bending/breaking the boomerang arm and bracket. The best way to set the closing limit is to use the remote to stop the door right before hitting the end stop on your sliding hardware. Use the 1st button on your remote to activate the hop function. The opener will make small jumps forward. Continue this until you reach the desired stop location.

- An alternate solution is to use something like 2x4 wood planks or other form of sturdy brace to stop the door at the right location. This will absorb the force and take the pressure of the hardware. This may not work for all install applications.
- We do not recommend using yourself or any other persons to stop the door at the closing limit as this may result in injury.

16. Press the 1st button again to activate the opener to return the open limit.

17. The opener will continue the learn mode on its own and will go back and forth across the rail between the limits so it can learn the push force required to move your door. During learn mode the LED lights will be flashing. As soon as the programming is complete the light will remain solid and is then ready for use. It is very important to not interrupt or stop the opener prematurely during its programming.

**NOTE:** the number of repetitions will vary based on your door. The heavier the door is the more passes are required for the opener.
PROCEED WITH AUTOSET PROGRAMMING

10. Place the door in the halfway open position and re-engage the motor by pulling the red emergency release chord.

11. Use the remote for programming the opener, the one included is preprogrammed already for your convenience. **NOTE:** Only the 1st button is used on the remote for programming purposes.

12. Plug the motor into your power outlet. The status light on the control board should blink rapidly (we recommend taking the motor carriage cover off during install).

13. Press 1st button on the remote until the motor carriage starts to move and release quickly.

14. To set the close limit you must program the position for the opener to learn. The motors are very strong and will try to pull through the resistance while it is in learning mode and will possibly result in bending/breaking hardware. The best way to set the closing limit is to use the remote to stop the door right before hitting the jamb. Use the 1st button on your remote to activate the hop function. The opener will make small jumps forward. Continue this until you reach the desired stop location.

- An alternate solution is use something like 2x4 wood planks or other form of sturdy brace to stop the door at the right location. This will absorb the force and take the pressure of the hardware. This may not work for all install applications.
- We do not recommend using yourself or any other persons to stop the door at the closing limit as this may result in injury.

15. Press the 1st button again to activate the opener to return the open limit.

16. The opener will continue the learn mode on its own and will go back and forth across the rail between the limits so it can learn the push force required to move your doors. During learn mode the LED lights will be flashing. As soon as the programming is complete the light will remain solid and is then ready for use. It is very important to not interrupt or stop the opener prematurely during its programming.

**NOTE:** the number of repetitions will vary based on your door. The heavier the doors is the more passes are required for the opener.
1. Receive one preprogrammed transmitter
   • Hold until the unit moves, do not continue to press the button or it will go into “dead mad” mode

2. Hop function
   • Hold button until the unit jumps, continue until it reaches the location that is desired

3. Clone additional remotes
   • Hold down second button, and then hold the first button together on your currently working remote. This puts it in learn mode, and then press any button on your new remote to clone it. See additional instructions below:
PROGRAMMING A SECOND TRANSmitter BY RADIO (HFL)

Prerequisites for teach-in by radio

A transmitter must already be programmed on the radio receiver. The transmitters used must be identical. So, for example, a Pear can only be programmed on a Pear and a Pear Vibe on a Pear Vibe. The key assignment of transmitter (A) that puts the radio receiver into teach-in mode by radio is used for the new transmitter (B) that is to be programmed. The already-programmed transmitter and the new transmitter to be programmed must be situated in the range of the radio receiver.

Example:

1. Button 1 on radio channel 1 and button 2 on radio channel 2 have been programmed by transmitter (A).
   ⇒ The newly-programmed transmitter (B) adopts the key assignment of transmitter (A): Button 1 on radio channel 1, button 2 on radio channel 2.

Restriction

The following settings are not possible:

- The targeted teach-in of a selected transmitter button on a radio channel.

![Fig. 1](image)

1. Press buttons 1 + 2 of a programmed transmitter (A) for 3 - 5 seconds until the LED lights up on the transmitter.
   ⇒ The opener lighting flashes.
   ⇒ If a radio command is not transmitted within another 30 seconds, the radio receiver switches over to normal mode.

2. Release buttons 1 + 2 of the transmitter (A).

3. Press any key, e.g. (3) on the new transmitter (B) to be programmed.
   ⇒ The opener lighting remains steady.
   ⇒ Transmitter (B) has been programmed.
**INFORMATION**
All functions can be programmed for all buttons.

**Button 1 (CH 1)**
![Diagram for Button 1]

Fig. Pulse sequence door OPEN, door stop, door CLOSE, door stop

**Button 2 (CH 2)**
![Diagram for Button 2]

Fig. Pulse sequence for
Partial opening: DIP switch 2 ON
Lighting function: DIP switch 2 OFF

**Button 3 (CH 3)**
![Diagram for Button 3]

Fig. Pulse sequence for defined door OPEN

**Button 4 (CH 4)**
![Diagram for Button 4]

Fig. Pulse sequence for defined door CLOSE
HOMELINK

1. Radio – scroll through to press button 1 on the vehicle
   • Please note: while programming homelink to the vehicle it will go through a learn cycle at least 3-4 times.

2. Not compatible with car2u

3. Homelink is on a 310 frequency

4. Homelink will be installed into the first four prongs on the USART
   • Please see below diagram (Red arrow is showing the location of USART)

NOTE: Homelink installation video is available on YouTube. Just search “HomeLink training for Sommer garage door openers”.
HOMELINK PROGRAMMING

1. For the first time programming with a SOMMER evo+ opener, press and hold all 3 HomeLink buttons for approximately 30 seconds. Release only when the HomeLink indicator light turns off.

**INFORMATION**
Do not perform this step when programming the additional HomeLink buttons.

2. To ensure HomeLink is in the proper training mode, press and hold each of the buttons individually. Indicator light blinks rapidly for 2 seconds and then turns to a continuous light.

![Diagram](image.png)

*Fig. 1*

**DANGER**
Danger of falling!
Unsafe or defective ladders may tip and cause serious or fatal accidents.
- Use only a non-slip, stable ladder.

**INFORMATION**
A second person makes the following steps quicker and easier.

3. At the carriage, locate the radio button.
4. Press and release the radio button.
   ⇒ LED is activated.

**INFORMATION**
Once the button is pressed, there are approximately 30 seconds in which to initiate the next step.

5. Return the carriage and firmly press and hold the desired HomeLink button to be programmed for two seconds and release.
6. Repeat the „press/hold/release” a second time to activate the door.
   You may need to repeat this sequence for pressing the radio button on the carriage and then pressing the HomeLink button in the vehicle up to 3 times to complete the training process.
   ⇒ HomeLink should now activate the rolling code equipped opener.

For more information please visit: www.homelink.com
BATTERY PACK

1. Battery pack can supply power during mains power failure

2. Battery pack can be operated for approx. 5 cycles in 12 hours
   • Please note: It is recommended to have a qualified electrician to install, test and replace battery pack

3. Battery pack contains charging and monitoring hardware
   • Please see below diagram (Red arrow is showing the location of ACCU for install)

Follow the instructions for the battery pack in the separate installation and operating manual.
See also chapter “6.1 Cover of the ceiling control unit.”
NOTE

When the battery pack is installed, the cover of the ceiling control unit must be removed with particular care.

Fig. 1

1. Unscrew and remove the cover from the ceiling control unit.

Fig. 13

2. Place the battery pack loosely in its position in the cover and plug the battery pack plug into the pcb at the BATTERY slot.

Fig. 3

3. Screw on cover.

4. Run a function test.
   ➞ Pull the power plug out of the power outlet.
   ➞ The opener is powered by the battery pack.

5. Press the button on the transmitter.
   ➞ Opener opens or closes the door at reduced speed.

6. Plug in the mains power plug.
The use of the Memo depends on the version of the carriage control board.
The memory capacity can be extended to 450 transmitter commands using the optional Memo accessory part.
When plugging in the Memo, all available transmitters are transmitted from the internal memory to the Memo and stored there. The Memo must remain plugged in on the control unit.
No more transmitters are stored in the internal memory.
Stored transmitters cannot be transmitted from the Memo back to the internal memory.
All radio channels, including the memory of the Memo, can be deleted, see Chapter "7.12 Deleting all radio channels in the receiver."

- Memory extension from 40 to 450 radio commands
- Ease of install, will work without programming
- Just plug and play

Please see below diagram (Red arrow is showing the location of MEMO for install)
SOMLINK

Service tool, for adjusting and viewing parameter settings of the drive. These include force and speed values as well as operating parameters and other convenient functions.

- Integrated Wi-Fi mode
- Integrated web server
- Universal for smartphones/tablet/laptop
- Talks to the opener via radio signal
  - Opener needs to be on channel 1
- Diagnostic help: full history and codes with possible solutions
- Data backup
- Generation, backup and loading of own user profiles on to the drive
- Can program features like humidity venting, power, sensitivity, speed, and lighting.

Recommended to only be used by qualified installers or technicians
Senso is an add on device that monitors humidity levels in the space.

There is a standard factory setting for Humidity levels that allows for venting if the humidity rises. The opener will be equipped to open about an inch or less if the humidity reaches 80% and will close again once it goes down to 70%. This setting can be adjusted with our SOMlink device. For additional information please contact us directly at 800-694-5977.
ABOUT US

Real Carriage Door & Sliding Hardware is committed to excellence in creating high quality products for customers around the world. Built Real in the USA, our original door and hardware designs are visually stunning and structurally robust. We strive to exceed your expectations by combining personalized customer service with the highest quality products. We invite you to Build Real.™

Real is constantly releasing new, innovative, and exclusive products. We always have great things in the works, so swing by our website to stay completely up to date on everything we have to offer.

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