**CHASSIS ADJUSTMENT AND TESTING INSTALLATION**

**NOTE:** For retrofit units, remove the push pad from the chassis assembly prior to installation into the cross rail to allow for installation adjustments and testing.

1. Install the chassis assembly into cross rail using (4) 028403 fasteners.
2. Attach the quick connect from the Paneline device to the cable with the female quick connect.

**LIFT LEVER ADJUSTMENT**

1. Lubricate lever as indicated.
2. Loosen the binder fastener on axle bracket.
3. Rotate the axle bracket until the lever arm contacts the bottom of the traveler roller. Tighten the binder fastener to allow for operation testing.
4. Stand the door up with a spacer between the door and the floor to allow for bolt operation and check for proper operation.
5. After testing unit thoroughly, drill a hole at location “A” using a #23 (0.154 dia.) drill bit.
6. Lock adjustment in place using extra binder fastener 028747.

**SOLENOID PLUNGER ADJUSTMENT**

1. With the door in the vertical position, depress the toggle assembly to trip the rods.
2. The solenoid plunger should bottom in the solenoid housing at the same time the connecting link contacts the slide bar.
3. Loosen hex nuts and adjust the solenoid plunger as required.
4. Secure the clevis bracket by tightening the two hex nuts.
5. With the device connected to the SP-1000X power supply, test the operation.
6. Re-adjust as necessary to obtain the proper operation.
1. After completion of adjustments and installation of push pad, install the chassis assembly into the cross rail using (4) 028403 fasteners.
2. Attach the quick connect from the Paneline device to the cable with the female quick connect.
3. To transfer the wiring from the door to the frame use an approved power transfer device.
4. Complete the connection from the quick connect cable to the power transfer and to the wire run from the SP-1000X power supply.
5. Test unit for proper electrical activation.
6. Reference the standard Paneline Installation Instruction 038371 for rod adjustments and additional information.

Notes:
   a. All wiring to be coordinated with a licensed electrical installer.
   b. Point to point wiring diagram to be supplied with each project at the time of installation.
   c. The SP-1000X is the approved power supply.

**ELECTRICAL SPECIFICATION**
Voltage: 24 VDC
Current: 14 A inrush (0.3 sec.)
    0.5 A holding

**ILLUSTRATED PARTS BREAKDOWN**

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**CHASSIS INSTALLATION**
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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**Notes:**

a. All wiring to be coordinated with a licensed electrical installer.

b. Point to point wiring diagram to be supplied with each project at the time of installation.

c. The SP-1000X is the approved power supply.

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### BASIC WIRING DIAGRAM

**POWER TRANSFERS**

- **EPT**  
  Kawneer #050396

- **Van Duprin EPT**  
  Kawneer #138637 (2 Wires)  
  Kawneer #138638 (10 Wires)

- **EL BUTT HINGE**  
  Kawneer #037238

- **KAWNEER EL OFFSET PIVOT**  
  Kawneer #050392-RH  
  Kawneer #050393-LH

- **OPTIONAL EL OFFSET PIVOT**  
  Kawneer #050397-RH  
  Kawneer #050398-LH

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### AVAILABLE WITH

<table>
<thead>
<tr>
<th>EPT</th>
<th>KAWNEER EL BUTT HINGE</th>
<th>KAWNEER EL OFFSET PIVOT</th>
<th>OPTIONAL EL OFFSET PIVOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>190/350/500 STANDARD</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>HEAVY WALL</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>TUFFLINE</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>FLUSHLINE</td>
<td>X</td>
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</tbody>
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**WIRE GAUGE**

<table>
<thead>
<tr>
<th>WIRE GAUGE</th>
<th>ELECTRIC B/H or O/P</th>
<th>EPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 AWG Stranded</td>
<td>40 ft</td>
<td>60 ft</td>
</tr>
<tr>
<td>12 AWG Stranded</td>
<td>60 ft</td>
<td>90 ft</td>
</tr>
<tr>
<td>10 AWG Stranded</td>
<td>100 ft</td>
<td>150 ft</td>
</tr>
</tbody>
</table>

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kawne.com
# Troubleshooting SP-1000X Power Supply and Paneline EL Exit Device

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green AC Input LED is not lit</td>
<td>No AC input voltage</td>
<td>1. Verify 120 VAC input voltage. Check main input fuse.</td>
</tr>
<tr>
<td>Red LED is lit</td>
<td>Fire Alarm circuit is open</td>
<td>1. Verify FACP is reset and contact is closed.</td>
</tr>
<tr>
<td>INP1 green LED blinking slow while Input IN1 is shorted</td>
<td>Open circuit on output 1 Or Open circuit on output 2</td>
<td>1. Power down SP-1000X. 2. Remove all wires from O1 and O2. 3. Place a jumper between O1 - GND or O2 – GND. 4. Power up and short O1 or O2 for 10 seconds. A. Green LED still blinking slow? Contact Special Projects Group Tech Support 888-284-4774. B. Green LED blinking fast? Output shorted. Power supply is operating correctly. Remove jumper and check electric lock for open circuit.</td>
</tr>
<tr>
<td>INP2 green LED blinking slow while Input IN2 is shorted</td>
<td>Circuit is shorted on output 1 Or Circuit is shorted on output 2</td>
<td>1. Power down SP-1000X. 2. Remove all wires from O1 and O2. 3. Power up and short O1 or O2 to GND terminal for 10 seconds. A. Green LED still blinking slow? Contact Special Projects Group Tech Support 888-284-4774. B. Green LED blinking slow? Output open. Power supply is operating correctly. Check wiring for short circuit.</td>
</tr>
<tr>
<td>Device unlocks and then immediately relocks</td>
<td>Two devices connected to one output</td>
<td>Refer to Special Projects Group point to point wiring diagram.</td>
</tr>
<tr>
<td>Device stays unlocked for too long</td>
<td>O1 and/or O2 time set to long</td>
<td>When using an access control device, use device to control the unlock time. Set O1 and O2 timers to minimum.</td>
</tr>
<tr>
<td>Power supply OK but device is not responding</td>
<td>Possible defective solenoid 1.6 / 2.0 Ohm's (Red / Black) 40 / 60 Ohm's (Black / White)</td>
<td>Defective coil commander Replace coil commander.</td>
</tr>
<tr>
<td>Wire size too small or wire run to long</td>
<td>Poor or broken wire connection</td>
<td>Check all wiring connections including male and female plug connections. Check power transfer for continuity.</td>
</tr>
<tr>
<td>Intermittent EL device operation</td>
<td>Incorrect rod adjustment</td>
<td>Refer to Paneline Installation Instruction manual 038371.</td>
</tr>
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</tr>
<tr>
<td>Power supply OK but device is not responding</td>
<td>Poor power transfer connection</td>
<td>Inspect power transfer connection.</td>
</tr>
<tr>
<td>Intermittent EL device operation</td>
<td>Incorrect solenoid adjustment</td>
<td>Refer to solenoid plunger adjustment.</td>
</tr>
<tr>
<td>Rods not releasing upon electrical activation</td>
<td>Binding</td>
<td>1. Strike adjustment 1. Top strike adjustment. Rotate strike and/or shim to eliminate binding. Modify cutout to eliminate binding. 2. Door racked. Adjust door to eliminate bind. 3. Insufficient lubrication. Inspect all moving components for binding. Lubricate binding parts with a dry, non-oily, greaseless lubricant. 4. Excessive stack pressure. Contact building owner to have HVAC system adjusted.</td>
</tr>
</tbody>
</table>