Sure Eject™
120V AC Shore Power Disconnect
7850 & 7850001 (15A) / 7851 & 7851001 (20A)
Automatic AC disconnect power cord upon
ingnition to prevent damage

Features
• Motor driven design ensures years of reliable operation
• The ejection piston is self-recessing, with no cocking required
• Keyed plug design allows for easy insertion
• Anti-arcing design on insertion and ejection
• LED indicates the presence of AC power and ejection alerts
• Automatically attempts additional ejections if needed
• Compatible with existing 15A and 20A connectors in the station
• Standard mounting holes for easy retrofit
• Connectors included: 7840 (15A) or 7841 (20A)
• Label kit included in Accessory pack
• Weather-resistant boot included
• Yellow cover 7820 included with 7850 & 7851
• Covers available: 7820 Yellow, 7821 Red, 7822 Black, 7823 White, 7824 Blue, 7825 Gray

Specifications
Operating Voltage Range  8V–16V DC
Nominal Voltage  120V AC
DC Current
Static: < 5mA
AC On: < 50mA
Ejection: 7A max. / 5sec.
Installation Screws  #8-32 (Max. Torque: 11 in-lb)
Termination Screws  #8-32 (Max. Torque: 16 in-lb)
Temperature Range  -40°C to 55°C

Accessory packs include:
(1) Water-resistant dielectric grease packet (2 gram)
   Periodically apply a small amount of dielectric grease to protect and lubricate
   120V AC Connector (female) or Ejection Unit (male) electrical contacts.
(1) Label kit (5 labels)
(4) Mounting screw packs (4 packs, 4 screws each)
(1) Three position plug (3.5mm)
(3) Nylon insulated ring terminals (12-10 AWG)

LED Indication
• Green – AC connector inserted and AC power properly passing through
  the Sure Eject and supplying power to the vehicle
• Solid Red – AC connector inserted, no power passing through SureEject
• Red Flash – Connector jam. SureEject is continuing ejection attempts
• LED Off – Connector not fully inserted or DC power not connected to SureEject

Wiring Diagram

120V AC Shore Power
Connection Must Be
GFCI Protected per
NEC 210.8(B)(8)

RING TERMINALS
Vehicle Connections - Use Stranded Wire
White 12-10 AWG
AC Neutral (grounded conductor)
Green 12-10 AWG
AC Safety Ground
Black 12-10 AWG
AC Line (ungrounded conductor)

16 AWG
Engine Start
(solenoid circuit)

16 AWG
Battery DC
degative (−)

16 AWG
Battery DC
positive (+)

#8-32 Termination Screws
Max Torque 16 In-lbs

THREE
POSITION
PLUG
Installation and Mounting Diagram

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Installation Screws #8-32 (4 packs included)</td>
</tr>
<tr>
<td>2</td>
<td>Cover</td>
</tr>
<tr>
<td>3</td>
<td>Gasket* Note: Qty. 2 included</td>
</tr>
<tr>
<td>4</td>
<td>Vehicle wall / mounting surface</td>
</tr>
<tr>
<td>5</td>
<td>Ejection unit</td>
</tr>
<tr>
<td>6</td>
<td>AC/DC termination cover</td>
</tr>
<tr>
<td>7</td>
<td>Connector 120V AC</td>
</tr>
<tr>
<td>8</td>
<td>Weather-resistant boot</td>
</tr>
</tbody>
</table>

**CAUTION**

1. Sure Eject must be mounted vertically (+/- 15°) as shown, and in a nominally dry and protected location.
2. Connected wiring must include appropriate drip and service loops.
3. If ejection unit (Item 5) is mounted externally or exposed to weather elements, installation with weather-resistant boot (included) is recommended.
   a. Route wires through hole in cover.
   b. Slide weather-resistant boot over ejection unit, wires exit at bottom.
   c. Install Sure Eject.
   d. Use heat gun to shrink cover in place before or after installation.

Visit bluesea.com for more information.

### Cutout Template

**CAUTION**

Warranty void if incorrect screw length is used.

Do not use screws that will penetrate the Ejection Unit's mounting holes deeper than 3/8".

If vehicle wall / mounting surface material is less than 1/8" thick, shim with extra 1/16" thick gasket (included).

**NOTE:** Four screw packs are included. Choose the appropriate screw length for your Vehicle Wall / Mounting Surface Thickness. (see table below).

<table>
<thead>
<tr>
<th>Vehicle Wall / Mounting Surface Thickness</th>
<th>Screw Length</th>
<th>Screw Pack #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot; (3.2mm)</td>
<td>#8-32 x 1.0&quot; (1&quot;)</td>
<td>1</td>
</tr>
<tr>
<td>1/4&quot; (6.4mm)</td>
<td>#8-32 x 1.125&quot; (1-1/8&quot;)</td>
<td>2</td>
</tr>
<tr>
<td>3/8&quot; (9.5mm)</td>
<td>#8-32 x 1.25&quot; (1-1/4&quot;)</td>
<td>3</td>
</tr>
<tr>
<td>1/2&quot; (13mm)</td>
<td>#8-32 x 1.375&quot; (1-3/8&quot;)</td>
<td>4</td>
</tr>
</tbody>
</table>