

## Sure Eject™

### 120V AC Shore Power Disconnect

7850 & 7850001 (15A) / 7851 & 7851001 (20A)

**Automatic AC disconnect ejects power cord upon ignition 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

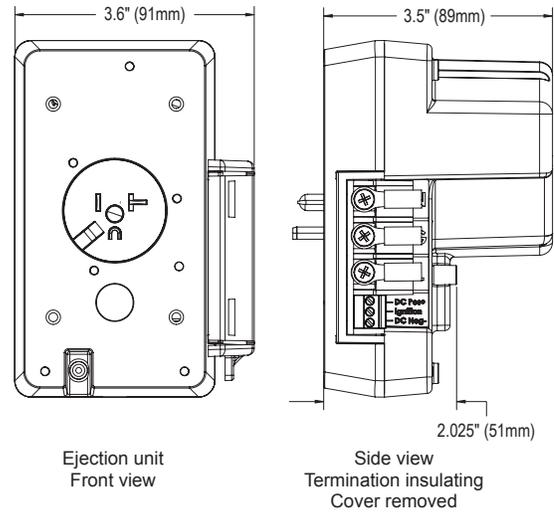
Static: < 5mA  
AC On: < 50mA  
Ejection: 7A max. / 5sec.

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) Termination screw (#8-32 x 5/16")
- (1) Three position plug (3.5mm)
- (3) Nylon insulated ring terminals (12-10 AWG)

## Dimension Drawing



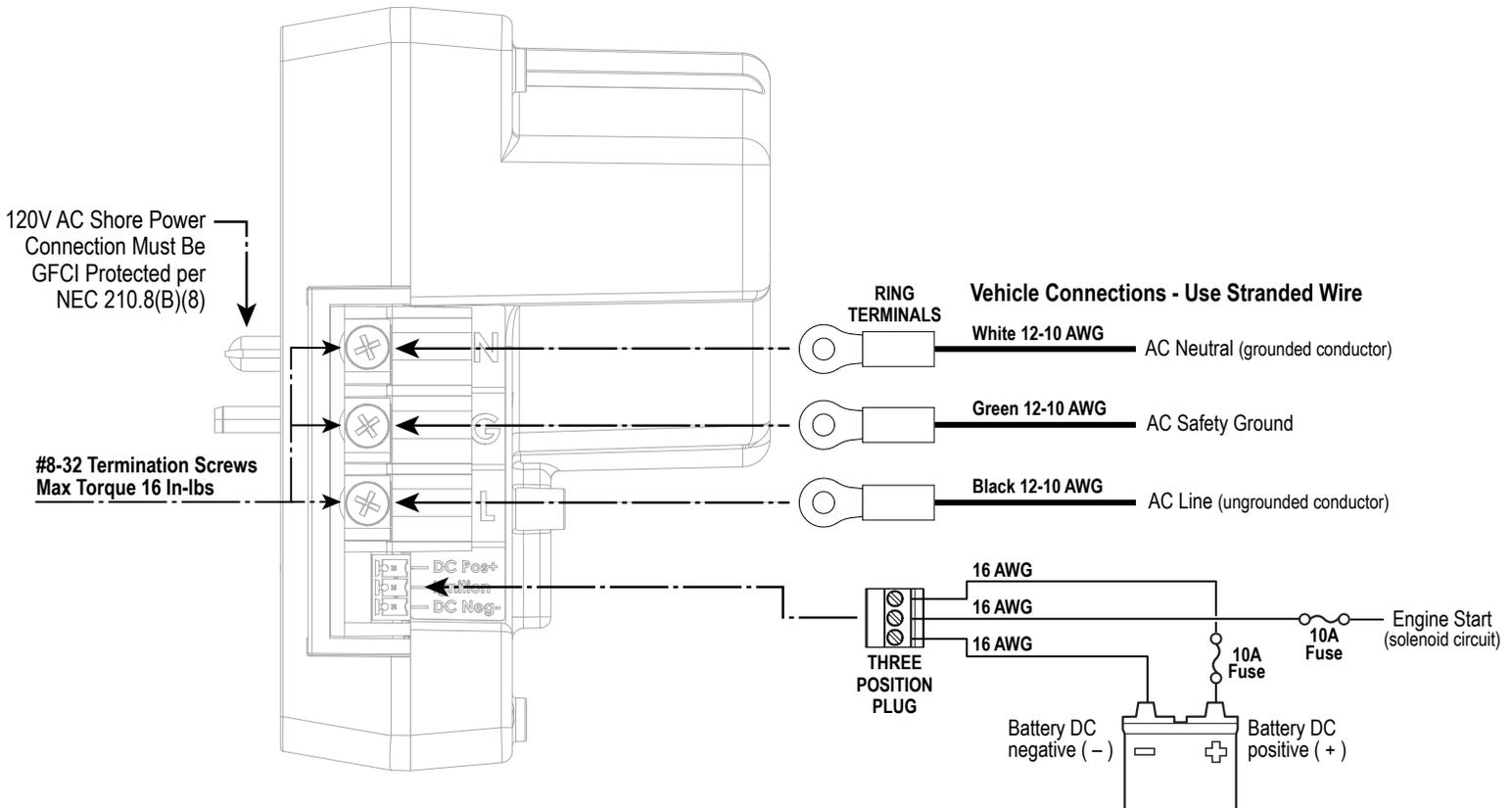
## LED Indication

- 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

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## Wiring Diagram

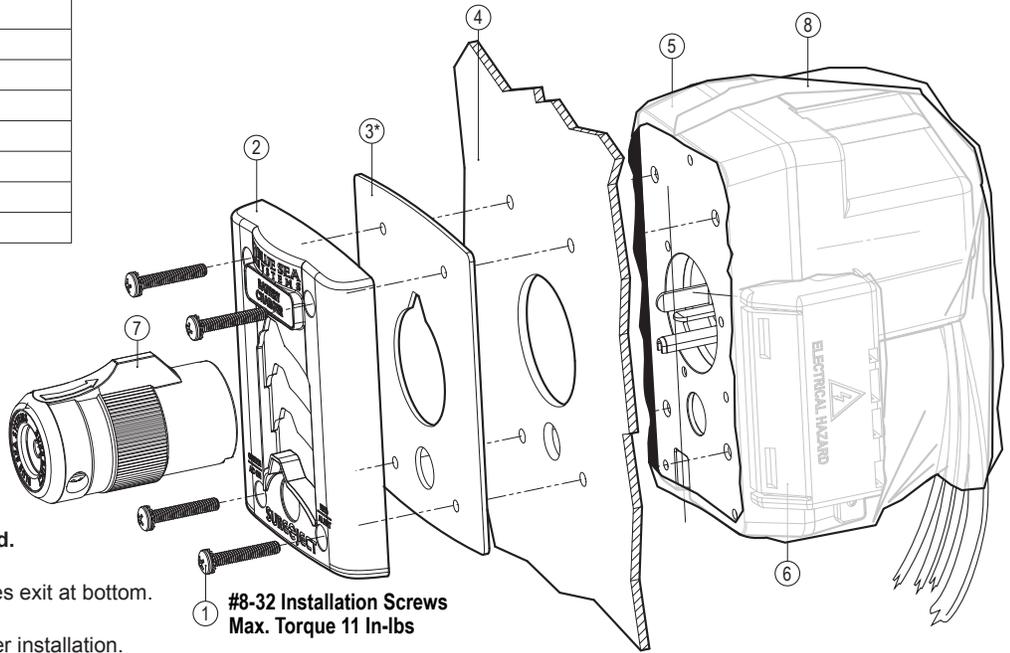


# Installation and Mounting Diagram

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

## CAUTION

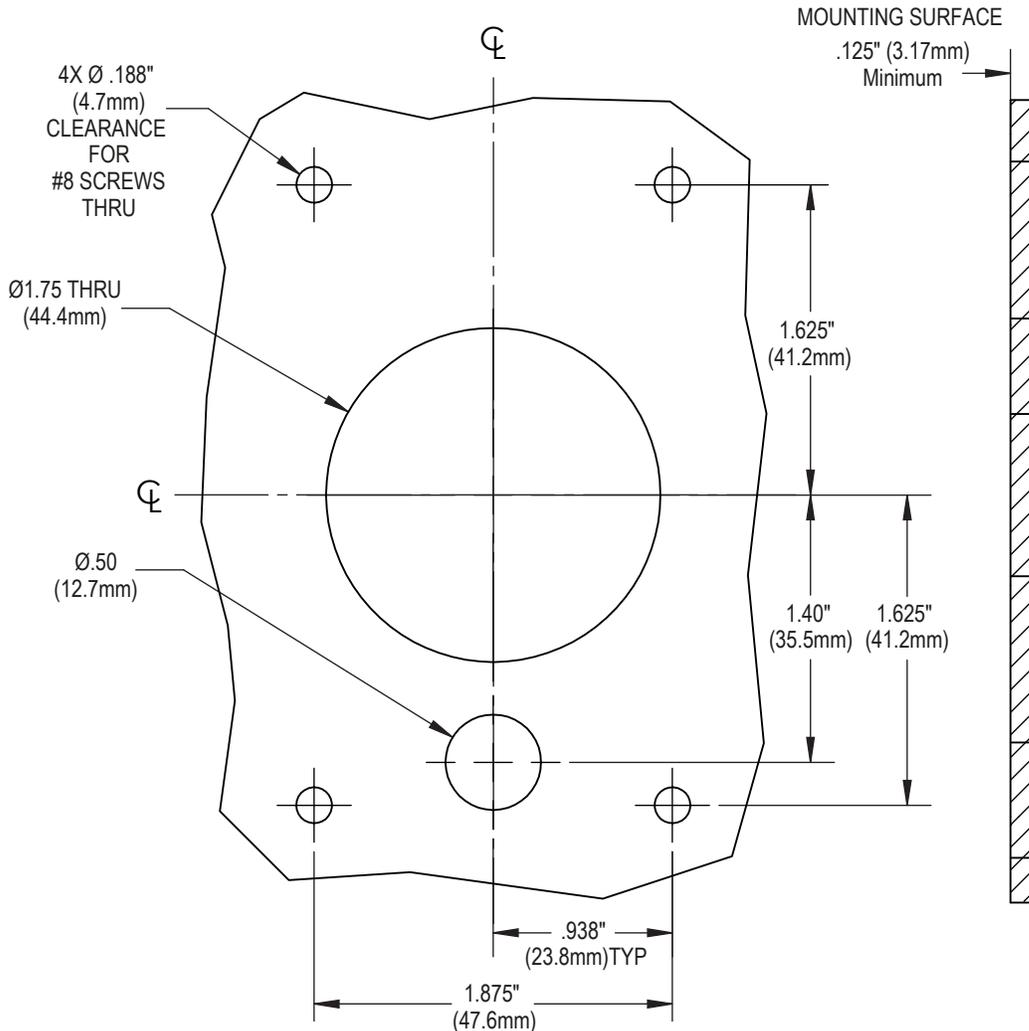
1. Sure Eject must be mounted vertically (+/- 15°) as shown, and in a nominally dry and protected location.
2. Connected wiring must include appropriate drip and service loops.
3. If ejection unit (Item 5) is mounted externally or exposed to weather elements, installation with weather-resistant boot (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.



#8-32 Installation Screws  
Max. Torque 11 In-lbs

Visit [blueseas.com](http://blueseas.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).

Vehicle Wall / Mounting Surface Thickness	Screw Length	Screw Pack #
1/8" (3.2mm)	#8-32 x 1.0" (1")	1
1/4" (6.4mm)	#8-32 x 1.125" (1-1/8")	2
3/8" (9.5mm)	#8-32 x 1.25" (1-1/4")	3
1/2" (13mm)	#8-32 x 1.375" (1-3/8")	4