Switches & Electrical Assemblies

Whether you are installing new products or replacing/updating an existing system, for repairs and maintenance on lawn and garden equipment around the house, marine and RV equipment or heavy vehicle and equipment needs, GROTE offers an extensive line of switches & electrical assemblies you need to get the job done right!
**MASTER BATTERY DISCONNECT SWITCH**

- Truck, Automotive, Marine, Off-Road and R.V. applications
- For battery circuit (82-2103, 82-2233); for alternator or generator field circuit (82-2155)
- 3/4” & #10-32 copper alloy stud terminals with hex nuts, lock washers included
- Large die cast lever for ease of operation; mounting stem ½” long x ½” dia.
- Fits panel up to ¼” thick; 10,000 life cycle; 6-36V DC
- Includes faceplate
- Faceplate replacement for 82-2103 (82-2157)
- Meets U.L. #558 (82-2103)

**DISCONNECTS ALL CIRCUITRY TO REDUCE THE POSSIBILITY OF THEFT / ACCIDENTAL ELECTRICAL FIRES**

**PRODUCT RATING**

- Continuous Rating (Make/Break), Large Studs – 180 AMP @ 6-36V DC; 1,000 AMP – in rush (82-2103)
- Continuous Rating (Make/Break), Large Studs – 180 AMP @ 6-36V DC (82-2233)
- Intermittent Rating (Carrying), Large Studs – 1,800 AMP @12V DC; 1 cycle = 4 seconds on/20 minutes off

**PART #** | **POSITION** | **RATED** | **TYPE** | **TERMINATION** | **DIMENSIONS**
--- | --- | --- | --- | --- | ---
82-2103 | Off/On | 12V | S.P.S.T. | 2, 3/8” stud terminals ground w/ faceplate | 4 3/8” L x 2 5/8” Dia.
82-2233 NEW | Off/On | 24V | S.P.S.T. | 2, 1/8” stud terminals ground w/ faceplate | 4 3/8” L x 2 5/8” Dia.

**DESIGNED TO BREAK ALTERNATOR GENERATOR CIRCUIT PRIOR TO BATTERY CIRCUIT DISCONNECT**

**PRODUCT RATING**

- Continuous Rating (Make/Break), Large Studs: 180 AMP, Small Studs: 20 AMP @ 6-36V DC
- Intermittent Rating (Carrying), Large Studs: 1,000 AMPs (20 sec. “On” – 5 Minutes “Off”)

**PART #** | **POSITION** | **RATED** | **TYPE** | **TERMINATION** | **DIMENSIONS**
--- | --- | --- | --- | --- | ---
82-2155 | Off/On | 12V | D.P.S.T. | 4 stud terminal ground | 4 1/8” L x 2 5/8” Dia.

**BATTERY ISOLATOR SWITCH**

- Prevents unauthorized use
- Eliminates battery discharge
- Waterproof body with removable key and protective cap
- Rated at 500 AMPs at 12V

**82-2155**

**PART #** | **POSITION** | **RATED** | **TYPE** | **TERMINATION** | **DIMENSIONS**
--- | --- | --- | --- | --- | ---
82-2104 | | | | |
### TOGGLE SWITCHES

- **For Heavy-Duty Truck, Off-Road, Automotive, Marine, R.V.**
- **Durable materials protect from breakage and corrosive materials**
- **Quick and easy installation**

**EXTRA HEAVY DUTY**

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>HANDLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2226 NEW</td>
<td>Mom On/Off/Mom On</td>
<td>50 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>2 screw</td>
<td>1&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2227 NEW</td>
<td>Mom On/Off/Mom On</td>
<td>50 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>2 screw</td>
<td>1 1/2&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2220</td>
<td>Mom On/Off/Mom On</td>
<td>35 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>2 screw</td>
<td>11/32&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2221</td>
<td>Mom On/Off/Mom On</td>
<td>35 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>2 screw</td>
<td>1 1/2&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2216</td>
<td>Mom On/Off/Mom On</td>
<td>30 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>2 blade</td>
<td>1&quot; Long x 15/32&quot; dia.</td>
</tr>
</tbody>
</table>

**HEAVY DUTY**

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>HANDLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2217</td>
<td>On/On</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>3 screw</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2214</td>
<td>On/On</td>
<td>20 AMP @ 12V DC</td>
<td>D.P.D.T.</td>
<td>6 screw</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2211 NEW</td>
<td>On/On</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>2 wire</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2221 NEW</td>
<td>On/On</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>2 screw</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2216 NEW</td>
<td>On/On</td>
<td>15 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>2 screw</td>
<td>3/8&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2213</td>
<td>On/Off</td>
<td>10 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>2 screw</td>
<td>3/8&quot; Long x 2 1/4&quot; hole</td>
</tr>
<tr>
<td>82-2219</td>
<td>Off/Off</td>
<td>15 AMP @ 12V DC</td>
<td>D.P.D.T.</td>
<td>4 screw</td>
<td>3/8&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2215**</td>
<td>On/Off/On</td>
<td>25 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>3 wire</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2222 NEW</td>
<td>On/Off/On</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>3 screw</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2218</td>
<td>Off/Off</td>
<td>15 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>3 screw</td>
<td>3/8&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2224 NEW</td>
<td>Off/Off</td>
<td>20 AMP @ 12V DC</td>
<td>D.P.D.T.</td>
<td>6 screw</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2225 NEW</td>
<td>Off/Off</td>
<td>20 AMP @ 12V DC</td>
<td>D.P.D.T.</td>
<td>6 blade</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2212</td>
<td>Off/On/Off</td>
<td>15 AMP @ 12V DC</td>
<td>D.P.D.T.</td>
<td>6 screw</td>
<td>3/8&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2128</td>
<td>Off/On/Off</td>
<td>15 AMP @ 12V DC</td>
<td>D.P.D.T.</td>
<td>6 blade</td>
<td>3/4&quot; Long x 1/4&quot; dia.</td>
</tr>
</tbody>
</table>

**82-2222 - 82-2225**

- **Sealed with 8" leads**
- **Minimized H.D. panel switch for Diesel Trucks, Tractor, Farm, Marine**
- **Neoprene Cap to seal out weather**
- **60 AMP @ 12V DC**
- **5/8" Long x 15/16" Diameter; 2 screw**

- **82-2151 With Cap**
- **82-2152 Without Cap**

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>HANDLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2112</td>
<td>Mom On/Off/Mom On</td>
<td>25 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 screw</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2127</td>
<td>Mom On/Off/Mom On</td>
<td>50 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>3 screw</td>
<td>1&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2125</td>
<td>Mom On/Off/Mom On</td>
<td>35 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>3 screw</td>
<td>11/32&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2220** NEW</td>
<td>Mom On/Off/Mom On</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.D.T.</td>
<td>3 wire</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-21110</td>
<td>Mom On/Off/Mom On</td>
<td>20 AMP @ 12V DC</td>
<td>D.P.D.T.</td>
<td>6 screw</td>
<td>11/32&quot; Long x 15/32&quot; dia.</td>
</tr>
</tbody>
</table>

- **Sealed with 12" leads**
- **Quick and easy installation**
- **Switch will not operate with the cover in the down position**
- **Used where accidental switch activation may cause an undesired or hazardous condition**
- **Spring loaded cover holds the guard cover in the up or down position**
- **Face plate is steel with black glossy finish**
- **Accepts standard 11/16" bat handles and 15/32" diameter mounting stem**
- **Used where accidental switch activation may cause an undesired or hazardous condition**
- **Switch will not operate with the cover in the down position**

**82-2106**

- **Rubber boot with 15/32" thread**
- **Used with 15/32" mounting stem**
- **Provides protection from weather conditions**

**82-2108**

- **Spring loaded cover holds the guard cover in the up or down position**
- **Face plate is steel with black glossy finish**
- **Accepts standard 11/16" bat handles and 15/32" diameter mounting stem**
- **Used where accidental switch activation may cause an undesired or hazardous condition**
- **Switch will not operate with the cover in the down position**

**82-2108**
**SWITCHES AND ELECTRICAL ASSEMBLIES**

**COMMUTATEURS ET ASSEMBLAGES ÉLECTRIQUES • APAGADORES Y ENSAMBLES ELÉCTRICOS**

---

**ILLUMINATED TOGGLE SWITCH**

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>HANDLE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2113</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>9/16&quot; x 15/32&quot; dia.</td>
<td>Red</td>
</tr>
<tr>
<td>82-1907</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>1&quot; x 15/32&quot; dia.</td>
<td>Yellow</td>
</tr>
<tr>
<td>82-1908</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>1&quot; x 15/32&quot; dia.</td>
<td>Green</td>
</tr>
</tbody>
</table>

---

**ILLUMINATED TOGGLE SWITCH – DUCKBILL**

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>HANDLE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-0309</td>
<td>Single Unit</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>11/16&quot; x 15/32&quot; dia.</td>
<td>Red</td>
</tr>
<tr>
<td>82-0310</td>
<td>Mom On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>11/16&quot; x 15/32&quot; dia.</td>
<td>Yellow</td>
</tr>
<tr>
<td>82-0311</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>11/16&quot; x 15/32&quot; dia.</td>
<td>Green</td>
</tr>
</tbody>
</table>

---

**ILLUMINATED LED ROCKER SWITCHES**

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>DIMENSIONS</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-0302</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 screw</td>
<td>Fits .300&quot; x 1.45&quot; Hole</td>
<td>Red</td>
</tr>
<tr>
<td>82-0303</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 screw</td>
<td>Fits .300&quot; x 1.45&quot; Hole</td>
<td>Yellow</td>
</tr>
<tr>
<td>82-0304</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 screw</td>
<td>Fits .300&quot; x 1.45&quot; Hole</td>
<td>Green</td>
</tr>
<tr>
<td>82-0305</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>Fits .500&quot; x 1.00&quot; Hole</td>
<td>Red</td>
</tr>
<tr>
<td>82-0306</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>Fits .500&quot; x 1.00&quot; Hole</td>
<td>Yellow</td>
</tr>
<tr>
<td>82-0307</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>Fits .500&quot; x 1.00&quot; Hole</td>
<td>Green</td>
</tr>
<tr>
<td>82-0308</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>Fits .500&quot; x 1.00&quot; Hole</td>
<td>Blue</td>
</tr>
</tbody>
</table>

---

**SEALLED LED**

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>DIMENSIONS</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-0309</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>4 blade</td>
<td>.250&quot;</td>
<td>Red</td>
</tr>
<tr>
<td>82-0310</td>
<td>Mom On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>4 blade</td>
<td>.250&quot;</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

---

**PANELS**

<table>
<thead>
<tr>
<th>PART #</th>
<th>DIMENSIONS</th>
<th>FITS ROCKER SWITCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-1914</td>
<td>Single Unit</td>
<td>Fits .980&quot; x 1.88&quot; Hole</td>
</tr>
<tr>
<td>82-1915</td>
<td>End Unit</td>
<td>Fits .980&quot; x 1.88&quot; Hole</td>
</tr>
<tr>
<td>82-1916</td>
<td>Middle Unit</td>
<td>Fits .980&quot; x 1.88&quot; Hole</td>
</tr>
<tr>
<td>82-1913</td>
<td>Single Unit</td>
<td>Fits .500&quot; x 1.00&quot; Hole</td>
</tr>
</tbody>
</table>

**NOTE:** Switches not included

---

**SQUARE LED**

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>DIMENSIONS</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2130</td>
<td>On/Off</td>
<td>25 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>.250&quot;</td>
<td>Red</td>
</tr>
<tr>
<td>82-2131</td>
<td>On/Off</td>
<td>25 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>.250&quot;</td>
<td>Yellow</td>
</tr>
<tr>
<td>82-2132</td>
<td>On/Off</td>
<td>25 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>.250&quot;</td>
<td>Green</td>
</tr>
<tr>
<td>82-2136</td>
<td>On/Off</td>
<td>25 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>.250&quot;</td>
<td>Blue</td>
</tr>
</tbody>
</table>

---

**OVAL LED**

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>DIMENSIONS</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2133</td>
<td>On/Off</td>
<td>30 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>.250&quot;</td>
<td>Red</td>
</tr>
<tr>
<td>82-2134</td>
<td>On/Off</td>
<td>30 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>.250&quot;</td>
<td>Yellow</td>
</tr>
<tr>
<td>82-2135</td>
<td>On/Off</td>
<td>30 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>.250&quot;</td>
<td>Green</td>
</tr>
<tr>
<td>82-2137</td>
<td>On/Off</td>
<td>30 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade</td>
<td>.250&quot;</td>
<td>Blue</td>
</tr>
</tbody>
</table>

---

- Provides protection from dust and moisture
- Available in LED or standard bulb options
- Screw and .250" quick disconnect contact options
- Single and modular mounting brackets also available
### Push/Pull Switches

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>HANDLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2100</td>
<td>On/Off</td>
<td>75 AMP @ 6-28V DC</td>
<td>S.P.S.T.</td>
<td>2 Screw</td>
<td>5/8’ Long x 15/32” diameter</td>
</tr>
</tbody>
</table>

### Heavy Duty

#### Extra Heavy Duty

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>HANDLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2101</td>
<td>On/Off</td>
<td>150 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 Screw</td>
<td>5/8’ Long x 15/32” diameter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PART #</th>
<th>TYPE</th>
<th>TERMINATION</th>
<th>RATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2101</td>
<td>S.P.S.T. Normally Open, Off-On</td>
<td>4 terminal ground</td>
<td>12V DC</td>
</tr>
</tbody>
</table>

#### Marine

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINAL</th>
<th>HANDLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-0402</td>
<td>On/Off</td>
<td>15 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 Screw</td>
<td>1 1/4” Long x 7/16” diameter</td>
</tr>
</tbody>
</table>

### Axle Switch

- High-low axle ranges
- Die-cast with rubber protection
- 3 female terminals to receive male bullets
- Large red knob to use with Eaton 2 speed rear axle

<table>
<thead>
<tr>
<th>PART #</th>
<th>TYPE</th>
<th>TERMINATION</th>
<th>RATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2236</td>
<td>S.P.S.T. Normally Open, Closed, Off-On</td>
<td>3 terminal base ground</td>
<td>12V DC</td>
</tr>
</tbody>
</table>

### Starter Solenoid Switch

- Automotive, truck, tractor, construction, off-road and R.V. applications
- Continuous duty, 150 AMP in rush; 6-24V DC
- Ignition and ground terminals, F10-22 thread
- Contact terminals 5/16’-24 thread
- Bracket mounting holes, 5/16’ x 13/32”, 2 1/8” on center
- UL Listed

### Product Specifications

- **82-0307** replaces Prestolite 15-132, 15-133, 15-236, 15-311, SAS-4201, 4202, 4213, 5203, Delco 1114218
- **82-0311** replaces Prestolite 15-141, 15-196, 15-310, SAS-4401, 4408, 5401
- **82-0306** replaces Prestolite 15-139, SAS-4208
- **82-0312** replaces Prestolite SAZ-4201N
- **82-0313** replaces Prestolite SAZ-4201E

### Continuous Duty

<table>
<thead>
<tr>
<th>PART #</th>
<th>TYPE</th>
<th>TERMINATION</th>
<th>RATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-0307</td>
<td>S.P.S.T. Normally Open, Off-On</td>
<td>4 terminal ground</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-0311</td>
<td>S.P.S.T. Normally Open, Off-On</td>
<td>4 terminal ground</td>
<td>24V DC</td>
</tr>
<tr>
<td>82-0308</td>
<td>S.P.S.T. Normally Open, Off-On</td>
<td>3 terminal ground</td>
<td>12V DC</td>
</tr>
</tbody>
</table>

### Intermittent Duty

<table>
<thead>
<tr>
<th>PART #</th>
<th>TYPE</th>
<th>TERMINATION</th>
<th>RATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-0312</td>
<td>S.P.S.T. Normally Open, Off-On</td>
<td>4 terminal base ground</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-0313</td>
<td>S.P.S.T. Normally Closed, Off-On</td>
<td>3 terminal base ground</td>
<td>12V DC</td>
</tr>
</tbody>
</table>
SWITCHES AND ELECTRICAL ASSEMBLIES
COMMUTATEURS ET ASSEMBLAGES ÉLECTRIQUES • APAGADORES Y ENSAMBLES ELÉCTRICOS

**SWITCHES AND ELECTRICAL ASSEMBLIES**

**COMMUTATEURS ET ASSEMBLAGES ÉLECTRIQUES • APAGADORES Y ENSAMBLES ELÉCTRICOS**

07

GROTE®  |  ‘CONNECT & PROTECT’

ELECTRICAL CONNECTION AND ACCESSORIES CATALOG  |  1.800.268.5612   |  WWW.GROTE.COM

- **BRAKE & BACK-UP PRECISION BALL SWITCH**
  - 3 terminals for plug connection
  - 1/4” – 18NPTF threads
  - Meets DOT 121 requirements
  - Brass body resists corrosion
  - Installs with a deep socket
  - North American
  
<table>
<thead>
<tr>
<th>PART #</th>
<th>STYLE</th>
<th>TYPE</th>
<th>TERMINATION</th>
<th>RATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2159</td>
<td>Ball switch</td>
<td>Normally Open</td>
<td>2 screw terminal</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-2234</td>
<td>Ball switch</td>
<td>Normally Open</td>
<td>2 stud terminal</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-0456 NEW</td>
<td>Ball switch</td>
<td>Normally Open</td>
<td>Metric Pack (12932864)</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-0458 NEW</td>
<td>Ball switch</td>
<td>Normally Open</td>
<td>Ford (C0AF-14A121-A)</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-2231</td>
<td>Ball switch</td>
<td>Normally Closed</td>
<td>2, 290° blade terminals</td>
<td>12V DC</td>
</tr>
</tbody>
</table>

- **STOP LIGHT SWITCH**
  - 1/4” – 18NPTF threads
  - Meets DOT 121 requirements
  - Brass body resists corrosion
  - Installs with a deep socket
  - North American

- **HORN BUTTONS**
  - Black plastic button
  - Chrome plated housing
  - 2 Position On-Off
  - 2 1/8” on center mounting holes
  - 82-2231 Includes Mounting Bracket
  - 82-2232 Surface Mount

- **DOOR SWITCH – UNIVERSAL**
  - 5 AMP @ 12V DC
  - 2 screw terminals
  - “ON” when plunger is out
  - Dual mounting holes 1 3/8” x 2 1/16”
  - Replaces Chrysler 882943, KF-204229

- **UNIVERSAL BUZZER**
  - 842 Buzzer use as low air pressure or Bus rear door warning buzzer
  - 76 db, 12V DC, 2 screw terminals
  - Ford: FDM2938A
  - GMC Truck & Coach: 76023
  - Divco Wayne: E-11811A

- **PILOT LIGHT**
  - 12V DC; 15 AMP
  - Red 1/2” diameter faceted lens
  - For panel mounting through 5/16” hole
  - North American

- **FLOOR DIMMER SWITCHES**
  - 3 terminals for plug connection

- **BRAKE & BACK-UP PRECISION BALL SWITCH**
  - 3 terminals for plug connection
  - 1/4” – 18NPTF threads
  - Meets DOT 121 requirements
  - Brass body resists corrosion
  - Installs with a deep socket
  - North American

- **HORN BUTTONS**
  - Black plastic button
  - Chrome plated housing
  - 2 Position On-Off
  - 2 1/8” on center mounting holes
  - 82-2231 Includes Mounting Bracket
  - 82-2232 Surface Mount

- **DOOR SWITCH – UNIVERSAL**
  - 5 AMP @ 12V DC
  - 2 screw terminals
  - “ON” when plunger is out
  - Dual mounting holes 1 3/8” x 2 1/16”
  - Replaces Chrysler 882943, KF-204229

- **UNIVERSAL BUZZER**
  - 842 Buzzer use as low air pressure or Bus rear door warning buzzer
  - 76 db, 12V DC, 2 screw terminals
  - Ford: FDM2938A
  - GMC Truck & Coach: 76023
  - Divco Wayne: E-11811A

- **PILOT LIGHT**
  - 12V DC; 15 AMP
  - Red 1/2” diameter faceted lens
  - For panel mounting through 5/16” hole
  - North American

- **FLOOR DIMMER SWITCHES**
  - 3 terminals for plug connection
PIGTAILS & SOCKETS

1 WIRE

- SOCKET REPAIR ASSEMBLY
  - Fits 63, 67, 81, 87, 93, 97, 99, 1003, 1005, 1083, 1085, 1130, 1133, 1141, 1156 bulbs
  - 18 GA, 12" wire
  - 68100

- SOCKET REPAIR ASSEMBLY
  - Fits 63, 67, 81, 87, 93, 97, 99, 1003, 1005, 1083, 1085, 1130, 1133, 1141, 1156 bulbs
  - 18 GA, 12" wire
  - 68170

- SOCKET REPAIR ASSEMBLY
  - For base sockets; universal
  - Fits 63, 67, 81, 87, 93, 97, 99, 1003, 1005, 1083, 1085, 1130, 1133, 1141, 1156 bulbs
  - 18 GA, 12" wire
  - 84-1075

- LICENSE & UTILITY SOCKET ASSEMBLY
  - Fits 63, 67, 81, 89, 93, 97, 1003, 1005, 1130, 1133, 1141, 1156 bulbs
  - 18 GA, 12" wire
  - 68080

- INSTRUMENT PANEL & LICENSE ASSEMBLY
  - Fits 51, 53, 55, 57, 57X bulbs
  - 18 GA, 12" wire, 5/8" hole; snap-in mount
  - 84-1000

- INSTRUMENT PANEL & LICENSE ASSEMBLY
  - GM: 2978302
  - Ford: DO0Z-15536A
  - Chrysler: 2913162, 3878745
  - AMC: 4486494, 4486412
  - Dodge: 67, 81, 87, 89, 93, 1003, 1005, 1130, 1133, 1141, 1166 bulbs
  - 18 GA, 12" wire; 1 1/8" hole; universal
  - 84-1062

- MOLDED SENSOR RECEPTACLE
  - Oil pressure switch; thermostat/brake sensors
  - PT40A, 1211371
  - Mates with .157" to .159" male terminals or stud; #9 + M4 terminals
  - 18 GA, 12" wire; 90 degree
  - 84-1069

- SOCKET REPAIR ASSEMBLY
  - Front & rear side marker lamps
  - Chrysler: 3588314, 4400047, 4400088, 4400099, 4400521
  - Ford: D2Y-134108
  - Fits 67, 156, 168, 194, 194NA bulbs
  - 18 GA, 12" wire
  - 84-1031

- SOCKET REPAIR ASSEMBLY
  - Stop, tail, turn, park & license lamps
  - GM: 12001470, 12078187, 12116169
  - Ford: D2Y-134108
  - Fits 67, 156, 168, 194, 194NA bulbs
  - 18 GA, 12" wire
  - 84-1031

- SOCKET REPAIR ASSEMBLY
  - Stop, tail, turn, park & license lamps
  - GM: 1210470, 12078187, 12116169
  - Ford: D2Y-134432
  - Fits 161, 160, 194, 194NA bulbs
  - 18 GA, 12" wire, 90° mounting
  - 84-1054

- INSTRUMENT PANEL SOCKET ASSEMBLY
  - For .58" mounting hole; vinyl housing
  - GM, Ford, Chrysler vehicles
  - Fits 168, 194, 194NA bulbs
  - 84-1052

- SOCKET REPAIR ASSEMBLY
  - Fits 1034, 1154, 1156, 1157, 1158, 1176, 1178 bulbs
  - 18 GA, 12" wire, Ceramic washer
  - 68110

2 WIRE

- SOCKET REPAIR ASSEMBLY
  - Stop, tail, turn & park lamps
  - Fits 19B, 1016, 1015, 1154, 1157 bulbs
  - 18 GA, 12" wire
  - 84-1004

- SOCKET REPAIR ASSEMBLY
  - Stop, tail, turn & park lamps
  - Fits 19B, 1016, 1015, 1154, 1157 bulbs
  - 18 GA, 12" wire
  - 84-1000

- SOCKET REPAIR ASSEMBLY
  - Stop, tail, turn & park lamps
  - LS224, 9470900, 8861010
  - GM: 2979430
  - Chrysler: 2906370
  - Fits 19B, 1016, 1015, 1154, 1157 bulbs
  - 18 GA, 12" wire; 1 1/8" hole
  - 84-1051

- DOME AND MAP LIGHT SOCKET ASSEMBLY
  - Dome and map lights; universal
  - Fits 64, 66, 82, 88, 90, 94, 210, 1004, 1076, 1130, 1142, 1158, 1176, 1178 bulbs
  - 18 GA, 12" wire
  - 84-1068

- SOCKET REPAIR ASSEMBLY
  - Back-up & rear lamps
  - Ford: D3A2-13410A, 2962-15434A
  - Ford 1973 & up
  - Fits 1156 bulbs
  - 18 GA, 6" wire
  - 84-1048

- HEADLAMP CONNECTOR HARNESS: LOW BEAM
  - Weather-pack seal connector
  - For halogen bulb headlamp assembly with 2 terminals
  - GM: 12101897, PT167
  - Fits 9006 bulbs
  - 16 GA, 6" wire
  - 84-1038

- SOCKET REPAIR ASSEMBLY
  - Fits H8 & H11 bulbs
  - 18 GA, 12" wire
  - 84-1081

- SOCKET REPAIR ASSEMBLY
  - Fits H7 bulbs
  - 14 GA, 6" wire
  - 84-1082

- SOCKET REPAIR ASSEMBLY
  - For 2 terminal sealed beam headlights or 2 terminal flashers
  - LS145, PT270, 1210879, 8880447
  - 18 GA, 12" wire; ABS molded housing
  - 84-1007

- SENSOR REPAIR HARNESS ASSEMBLY
  - GM: 12046623, 12101899
  - Delco: PT169
  - 18 GA, 12" wire
  - 84-1071

- FOGLAMP AND SPEED SENSOR HARNESS ASSEMBLY
  - Fits 880, 881, 884, 885, 886, 889, 892, 893, 894, 896, 899 bulbs
  - PT128, 12043215, 12085438
  - 18 GA, 12" wire
  - 84-1072

- ALTERNATOR TERMINAL REPAIR ASSEMBLY
  - Weather-pack seal connector
  - Includes internal voltage regulator
  - GM: 6294493, PT181, 624993, 12101909
  - 12 GA 12" red & 16 GA 12" white wire
  - 84-1034
<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-1067</td>
<td>5 Wire Pigtail and Socket Assembly&lt;br&gt;Includes 2, .250&quot; quick disconnect terminals&lt;br&gt;Includes socket, mounting bracket&lt;br&gt;POWER SOCKET&lt;br&gt;12V power socket with pre-wired&lt;br&gt;quick disconnects&lt;br&gt;Includes cigarette lighter plug-in port&lt;br&gt;2, 18 GA wires with&lt;br&gt;.250&quot; quick disconnects&lt;br&gt;84-1091</td>
</tr>
<tr>
<td>84-1064</td>
<td>3 Wire Pigtail and Socket Assembly&lt;br&gt;Includes 2, 18 GA wires&lt;br&gt;Weather pack seal connector&lt;br&gt;12 volt&lt;br&gt;Molded housing; universal&lt;br&gt;Includes terminal block&lt;br&gt;Assemblies easily&lt;br&gt;84-1009</td>
</tr>
<tr>
<td>84-1066</td>
<td>4 Wire Pigtail and Socket Assembly&lt;br&gt;Includes 2, 18 GA wires&lt;br&gt;Weather pack seal connector&lt;br&gt;12 volt&lt;br&gt;Molded housing; universal&lt;br&gt;Includes terminal block&lt;br&gt;Assemblies easily&lt;br&gt;84-1010</td>
</tr>
<tr>
<td>84-1063</td>
<td>5 Wire Pigtail and Socket Assembly&lt;br&gt;Includes 2, 18 GA wires&lt;br&gt;Weather pack seal connector&lt;br&gt;12 volt&lt;br&gt;Molded housing; universal&lt;br&gt;Includes terminal block&lt;br&gt;Assemblies easily&lt;br&gt;84-1011</td>
</tr>
<tr>
<td>84-1059</td>
<td>3 Wire Pigtail and Socket Assembly&lt;br&gt;Includes 2, 18 GA wires&lt;br&gt;Weather pack seal connector&lt;br&gt;12 volt&lt;br&gt;Molded housing; universal&lt;br&gt;Includes terminal block&lt;br&gt;Assemblies easily&lt;br&gt;84-1012</td>
</tr>
<tr>
<td>84-1058</td>
<td>4 Wire Pigtail and Socket Assembly&lt;br&gt;Includes 2, 18 GA wires&lt;br&gt;Weather pack seal connector&lt;br&gt;12 volt&lt;br&gt;Molded housing; universal&lt;br&gt;Includes terminal block&lt;br&gt;Assemblies easily&lt;br&gt;84-1013</td>
</tr>
<tr>
<td>84-1057</td>
<td>5 Wire Pigtail and Socket Assembly&lt;br&gt;Includes 2, 18 GA wires&lt;br&gt;Weather pack seal connector&lt;br&gt;12 volt&lt;br&gt;Molded housing; universal&lt;br&gt;Includes terminal block&lt;br&gt;Assemblies easily&lt;br&gt;84-1014</td>
</tr>
<tr>
<td>84-1056</td>
<td>4 Wire Pigtail and Socket Assembly&lt;br&gt;Includes 2, 18 GA wires&lt;br&gt;Weather pack seal connector&lt;br&gt;12 volt&lt;br&gt;Molded housing; universal&lt;br&gt;Includes terminal block&lt;br&gt;Assemblies easily&lt;br&gt;84-1015</td>
</tr>
</tbody>
</table>