07

SWITCHES & ELECTRICAL ASSEMBLIES

COMMUTATEURS ET ASSEMBLAGES ÉLECTRIQUES

APAGADORES Y ENSAMBLLES ELÉCTRICOS

96 Battery Disconnect Switches
97 Ignition & Starter Switches
98 Toggle Switches
101 Rocker Switches
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103 Solenoids
104 Miscellaneous Switches
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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 ¾” 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 – 1,000 AMPs (20 sec. “On” – 5 Minutes “Off”)

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINATION</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2103</td>
<td>Off/On</td>
<td>12V</td>
<td>S.P.S.T.</td>
<td>2, 3/8” stud terminals ground w/ faceplate</td>
<td>4 3/8” L x 2 5/8” Dia.</td>
</tr>
<tr>
<td>82-2233</td>
<td>Off/On</td>
<td>24V</td>
<td>S.P.S.T.</td>
<td>2, ½” stud terminals ground w/ faceplate</td>
<td>4 3/8” L x 2 5/8” Dia.</td>
</tr>
</tbody>
</table>

**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”)

<table>
<thead>
<tr>
<th>PART #</th>
<th>POSITION</th>
<th>RATED</th>
<th>TYPE</th>
<th>TERMINATION</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2155</td>
<td>Off/On</td>
<td>12V</td>
<td>D.P.S.T.</td>
<td>4 stud terminal ground</td>
<td>4 1/8” L x 2 5/8” Dia.</td>
</tr>
</tbody>
</table>

**Battery Isolator Switch**

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

82-2104
IGNITION STARTER SWITCHES

• Momentary start
• One piece die cast housing with brass terminals; includes 2 keys
• 4 position (ACC, OFF, ON/ACC, START – spring return to “ON”)
• Key removable; key in “OFF” position only
• 50,000 life cycle
• Caution tag on ground terminal (82-2235)
• 82-2235 fits Packard #2984017

SPECIFICATIONS
Rating @ 14V DC
Ignition Terminal, 8 AMP
Accessory Terminal, 30 AMP (inductive)
Start Terminal – 75 AMP make, 20 AMP break
Continuous current carrying capacity, 30 AMP @14V DC;
Accessory terminal with #10 gauge wire

<table>
<thead>
<tr>
<th>PART #</th>
<th>CONNECTION TYPE</th>
<th>STARTER LOCKOUT</th>
<th>KEYCODE</th>
<th>MOUNTING HOLE PATTERN</th>
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</thead>
<tbody>
<tr>
<td>82-2150</td>
<td>Screw</td>
<td>No</td>
<td>Various</td>
<td>2</td>
</tr>
<tr>
<td>82-2156</td>
<td>Screw</td>
<td>No</td>
<td>Universal</td>
<td>1</td>
</tr>
<tr>
<td>82-2235</td>
<td>Blade</td>
<td>No</td>
<td>Various</td>
<td>1</td>
</tr>
<tr>
<td>82-2158*</td>
<td>Screw</td>
<td>No</td>
<td>D250</td>
<td>1</td>
</tr>
</tbody>
</table>

* Includes specially designed glow plug warmer

82-2150 / 82-2156
82-2235 / 82-2158

IGNITION STARTER SWITCH

• Special “Push to Choke” feature eliminates need for separate electronic choke switch
• Magneto grounded in “off” position
• Glass filled delrin housing, stainless steel terminals and molded velox base
• 13/16” diameter mounting bushing special weather proofing seal and drain hole
• Switch mounts in panels up to 1/4” thick
• Stainless steel terminals; 13/16” diameter mount
• Special weather proofing seal and drain hole
• 3 position (OFF – Magneto Grounded, ON/ACC & BATT, START/ACC BATT & SOL – spring return to “ON”)

Product Specifications
Replaces – Johnson-Evinrude Numbers 388173, 390129, 390133
Rating: Off/Magneto grounded – 10 AMPs inductive, On – 5 AMP, Start – 10 AMP, Choke – 1 AMP

<table>
<thead>
<tr>
<th>PART #</th>
<th>CONNECTION TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2306</td>
<td>Screw</td>
</tr>
</tbody>
</table>
### TOGGLE SWITCHES

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

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#### 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>On/Off</td>
<td>50 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 screw</td>
<td>1&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2227 NEW</td>
<td>On/Off</td>
<td>50 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 screw</td>
<td>1 1/2&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2120</td>
<td>On/Off</td>
<td>35 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 screw</td>
<td>11/32&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2121</td>
<td>On/Off</td>
<td>35 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 screw</td>
<td>1 1/2&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-0216</td>
<td>On/Off</td>
<td>30 AMP @ 12V DC</td>
<td>S.P.S.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>
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<th>TERMINAL</th>
<th>HANDLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2117</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>82-2114</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>82-2111*</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.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.S.T.</td>
<td>2 screw</td>
<td>11/16&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2116</td>
<td>On/Off</td>
<td>15 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 screw</td>
<td>3/8&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-2123</td>
<td>On/Off</td>
<td>10 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 screw</td>
<td>3/8&quot; Long x 2 ¼&quot; hole</td>
</tr>
<tr>
<td>82-2119</td>
<td>On/Off</td>
<td>15 AMP @ 12V DC</td>
<td>D.P.S.T.</td>
<td>4 screw</td>
<td>3/8&quot; Long x 15/32&quot; dia.</td>
</tr>
<tr>
<td>82-0315** NEW</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>82-2118</td>
<td>On/On</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>On/Off/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>82-2225 NEW</td>
<td>On/Off/On</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>82-2122</td>
<td>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>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>

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* 82-2111 – Sealed with 8’ leads.
** 82-0315 – Waterproof and dust-proof to IP68 standard – allows mounting anywhere on vehicle. Sealed with 12’ leads.
### Momentary Toggle 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>82-2112</td>
<td>Mom On/Off</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*</td>
<td>NEW 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>82-2110</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 8’ leads

### Momentary Starter Switch

- Miniaturized 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**

### Momentary Push Switch

- 10 AMP @ 12V DC
- 2 screw terminals; 1 5/16" mounting hole
- Mounting stem 7/8"-20; .45" long
- Replaces 21A11500A

**82-0600**

### Toggle Switch Boot

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

**82-2106**

### Toggle Switch Guard

- 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**
### 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>30 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>4 blade</td>
<td>11/16&quot; x 15/32&quot; dia.</td>
<td>Red</td>
</tr>
<tr>
<td>82-1905</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>Red</td>
</tr>
<tr>
<td>82-1906</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>82-1907</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>Green</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>Blue</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>82-1909</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>82-1910</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>Yellow</td>
</tr>
<tr>
<td>82-1911</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>Green</td>
</tr>
<tr>
<td>82-1912</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>Blue</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 .830&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 .830&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 .830&quot; x 1.45&quot; Hole</td>
<td>Green</td>
</tr>
<tr>
<td>82-1901</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade (.250&quot;)</td>
<td>Fits .500&quot; x 1.00&quot; Hole</td>
<td>Red</td>
</tr>
<tr>
<td>82-1902</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade (.250&quot;)</td>
<td>Fits .500&quot; x 1.00&quot; Hole</td>
<td>Yellow</td>
</tr>
<tr>
<td>82-1903</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade (.250&quot;)</td>
<td>Fits .500&quot; x 1.00&quot; Hole</td>
<td>Green</td>
</tr>
<tr>
<td>82-1904</td>
<td>On/Off</td>
<td>20 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>3 blade (.250&quot;)</td>
<td>Fits .500&quot; x 1.00&quot; Hole</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

### 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 (.250&quot;)</td>
<td>.830” x 1.45” Hole</td>
<td>Amber</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 (.250&quot;)</td>
<td>.830” x 1.45” Hole</td>
<td>Amber</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” x 1.88” Hole</td>
</tr>
<tr>
<td>82-1915</td>
<td>End Unit</td>
<td>Fits .980” x 1.88” Hole</td>
</tr>
<tr>
<td>82-1914</td>
<td>Middle Unit</td>
<td>Fits .980” x 1.88” Hole</td>
</tr>
<tr>
<td>82-1913</td>
<td>Single Unit</td>
<td>Fits .500” x 1.00” 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 (.250&quot;)</td>
<td>15/16” Hole</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 (.250&quot;)</td>
<td>15/16” Hole</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 (.250&quot;)</td>
<td>15/16” Hole</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 (.250&quot;)</td>
<td>15/16” Hole</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 (.250&quot;)</td>
<td>1” Hole</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 (.250&quot;)</td>
<td>1” Hole</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 (.250&quot;)</td>
<td>1” Hole</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 (.250&quot;)</td>
<td>1” Hole</td>
<td>Blue</td>
</tr>
</tbody>
</table>
• For Heavy Duty Truck, Off-Road, Automotive, Marine and Recreational Vehicles
• Durable materials protect from breakage and corrosive materials
• Quick and easy installation

**S.P.S.T.** = Single Pole Single Throw  \n**D.P.S.T.** = Double Pole Single Throw  \n**S.P.D.T.** = Single Pole Double Throw  \n**D.P.D.T.** = Double Pole Double Throw

### 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>82-2100</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&quot; Long x 15/32&quot; diameter</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>44170</td>
<td>On/Off</td>
<td>10 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 Blade</td>
<td></td>
</tr>
<tr>
<td>82-2102</td>
<td>On/Off</td>
<td>15 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>2 Screw</td>
<td>5/8&quot; Long x 7/16&quot; diameter</td>
</tr>
<tr>
<td>82-2107</td>
<td>Off/On/On</td>
<td>15 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>5 Screw</td>
<td>5/8&quot; Long x 7/16&quot; diameter</td>
</tr>
<tr>
<td>82-2105*</td>
<td>Off/On/On</td>
<td>15 AMP @ 12V DC</td>
<td>S.P.S.T.</td>
<td>5 Screw</td>
<td>5/8&quot; Long x 7/16&quot; diameter</td>
</tr>
</tbody>
</table>

(* Includes 15 AMP glass fuse)

### 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&quot; Long x 7/16&quot; 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

82-2236
• Automotive, truck, tractor, construction, off-road and R.V. applications
• Continuous duty, 150 AMP in rush; 6-24V DC
• Ignition and ground terminals, #10-32 thread
• Contact terminals 5/16”-24 thread
• Bracket mounting holes, 5/16” x 19/32”; 2 1/8” on center
• 82-0307 (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
82-0308 replaces Prestolite 15-139, SAS-4208
82-0312 replaces Prestolite SAZ-4201N
82-0313 replaces Prestolite SAZ-4201E

CONTINUOUS DUTY

PRODUCT RATING
82-0307 Continuous duty 100 AMP, 150A in rush @ 12V DC
82-0311 Continuous duty 100 AMP, 150A in rush @ 24V DC
82-0308 Continuous duty 100 AMP, 150A in rush @ 12V DC

<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

PRODUCT RATING
82-0312 Intermittent duty 750 AMP make, 100A break @ 12V DC
82-0313 Intermittent duty 600 AMP make, 200A break @ 12V DC

<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>
### Brake & Back-up Precision Ball Switch

- Leak proof
- 0-5 AMP operating current, 5-24V DC
- 500,000 electrical life cycles
- 7/8" hex nut; 9/16"-18 thread
- Temperature Rating: -40°C (-40°F) to 121°C (250°F)

<table>
<thead>
<tr>
<th>PART #</th>
<th>STYLE</th>
<th>TYPE</th>
<th>TERMINATION</th>
<th>RATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-0456</td>
<td>Ball switch</td>
<td>Normally Open</td>
<td>2 screw terminal</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-2234 NEW</td>
<td>Ball switch</td>
<td>Normally Open</td>
<td>2 stud terminal</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-0465 NEW</td>
<td>Ball switch</td>
<td>Normally Open</td>
<td>Metri-Pack (12052644)</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-0364 NEW</td>
<td>Ball switch</td>
<td>Normally Open</td>
<td>Ford (C0AF-14A121-A)</td>
<td>12V DC</td>
</tr>
<tr>
<td>82-0458</td>
<td>Ball switch</td>
<td>Normally Closed</td>
<td>2, .250&quot; 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

82-2159

### 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
SWITCHES AND ELECTRICAL ASSEMBLIES
COMMUTATEURS ET ASSEMBLAGES ÉLECTRIQUES • APAGADORES Y ENSAMBLES ELÉCTRICOS

**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

---

<table>
<thead>
<tr>
<th>PART #</th>
<th>STYLE</th>
<th>TYPE</th>
<th>FEATURES</th>
<th>MOUNTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-2203</td>
<td>Floor mount</td>
<td>S.P.D.T.</td>
<td>2 Position On – Low Beam, On High beam</td>
<td>1 5/8” on center, 7/32” diameter</td>
</tr>
<tr>
<td>82-2204</td>
<td>Floor mount</td>
<td>S.P.D.T.</td>
<td>2 Position On – Low Beam, On High beam</td>
<td>1 6/8” on center, 9/32” diameter</td>
</tr>
</tbody>
</table>
PIGTAILS & SOCKETS

SOCKET REPAIR ASSEMBLY
• Fits 63, 67, 81, 87, 93, 97, 209, 1003, 1073, 1129, 1133, 1141, 1156 bulbs
• 18 GA, 12” wire
68080

SOCKET REPAIR ASSEMBLY
• For 5/8” socket
• Fits 63, 67, 81, 87, 93, 97, 209, 1003, 1073, 1129, 1133, 1141, 1156 bulbs
• 18 GA, 12” wire
68170

INSTRUMENT PANEL & DOME LIGHT SOCKET REPAIR ASSEMBLY
• Ceramic washer
• Fits 53, 55, 57, 1895 bulbs
• 18 GA, 12” wire
68100

SOCKET REPAIR ASSEMBLY
• For base sockets; universal
• Fits 63, 67, 81, 89, 93, 209, 1003, 1073, 1129, 1133, 1141, 1156 bulbs
• 18 GA, 12” wire
84-1075

LICENSE & UTILITY SOCKET ASSEMBLY
• Fits 63, 67, 81, 89, 93, 1141, 1156 bulbs
• 18 GA, 12” wire
84-1003

INSTRUMENT PANEL & LICENSE ASSEMBLY
• Fits 63, 67, 81, 87, 89, 93, 209, 1003, 1073, 1129, 1133, 1141, 1156 bulbs
• 18 GA, 12” wire; 1 1/8” hole; universal
84-1060

INSTRUMENT PANEL & LICENSE ASSEMBLY
• GM: 2978302
• Ford: D00Z-15536A
• Chrysler: 3513162, 3780745
• AMC: 4489412
• Fits 63, 67, 81, 87, 89, 93, 209, 1003, 1073, 1129, 1133, 1141, 1156 bulbs
• 18 GA, 12” wire; 1 1/8” hole; universal
84-1062

MOLDED SENSOR RECEPTACLE
• Oil pressure switch; thermostat/brake sensors
• PT404, 12112171
• Mates with .157” to .159” male terminals or stud; #8 + M4 terminals
• 18 GA, 12” wire, 90 degree
84-1069

PIGTAILS & SOCKETS

SOCKET REPAIR ASSEMBLY
• Stop, tail, turn, license & side marker lamps
• Fits 194 bulbs; Includes 194 bulb
• 18 GA, 9.5” wire, twist-in mount
68380

SOCKET REPAIR ASSEMBLY
• License & side marker lamps; Twist-in mount
• Ford: E1FZ-13410A; D5VY-15442A
• GM: 4489395, 6294015, 6298886, 6298892, 6298935, 8901283, 8910257, 418977C91
• Fits Fits 67, 131, 158, 161, 168, 194, 194A bulbs
• 18 GA, 10” wire
84-1008

SOCKET REPAIR ASSEMBLY
• Front & rear side marker lamps
• GM: 12037105, 12083460
• Fits 194 bulbs
• 18 GA, 12” wire
84-1032

SOCKET REPAIR ASSEMBLY
• Ceramic washer and waterproof boot
• Fits 64, 68, 82, 88, 90, 94, 210, 1004, 1034, 1074, 1130, 1154, 1157, 1158, 1176, 1178 bulbs
68150

SOCKET REPAIR ASSEMBLY
• Stop, tail, turn, license & side marker lamps
• Fits 194 bulbs; Includes 194 bulb
• 18 GA, 9.5” wire, twist-in mount
68380

SOCKET REPAIR ASSEMBLY
• License & side marker lamps; Twist-in mount
• Ford: E1FZ-13410A; D5VY-15442A
• GM: 4489395, 6294015, 6298886, 6298892, 6298935, 8901283, 8910257, 418977C91
• Fits Fits 67, 131, 158, 161, 168, 194, 194A bulbs
• 18 GA, 10” wire
84-1008

SOCKET REPAIR ASSEMBLY
• Front & rear side marker lamps
• GM: 12037105, 12083460
• Fits 194 bulbs
• 18 GA, 12” wire
84-1032

SOCKET REPAIR ASSEMBLY
• Ceramic washer and waterproof boot
• Fits 64, 68, 82, 88, 90, 94, 210, 1004, 1034, 1074, 1130, 1154, 1157, 1158, 1176, 1178 bulbs
68150

SOCKET REPAIR ASSEMBLY
• Stop, tail, turn, license & side marker lamps
• Fits 194 bulbs; Includes 194 bulb
• 18 GA, 9.5” wire, twist-in mount
68380

SOCKET REPAIR ASSEMBLY
• License & side marker lamps; Twist-in mount
• Ford: E1FZ-13410A; D5VY-15442A
• GM: 4489395, 6294015, 6298886, 6298892, 6298935, 8901283, 8910257, 418977C91
• Fits Fits 67, 131, 158, 161, 168, 194, 194A bulbs
• 18 GA, 10” wire
84-1008

SOCKET REPAIR ASSEMBLY
• Front & rear side marker lamps
• GM: 12037105, 12083460
• Fits 194 bulbs
• 18 GA, 12” wire
84-1032

SOCKET REPAIR ASSEMBLY
• Ceramic washer and waterproof boot
• Fits 64, 68, 82, 88, 90, 94, 210, 1004, 1034, 1074, 1130, 1154, 1157, 1158, 1176, 1178 bulbs
68150
SOCKET REPAIR ASSEMBLY
• Stop, tail, turn & park lamps
• Fits 198, 1016, 1034, 1154, 1157 bulbs
• 18 GA, 12" wire
84-1004

SOCKET REPAIR ASSEMBLY
• Stop, tail, turn & park lamps
• Fits 198, 1016, 1034, 1154, 1157 bulbs
• 18 GA, 12" wire
84-1000

SOCKET REPAIR ASSEMBLY
• Stop, tail, turn & park lamps
• LS224, 5947900, 8861101
• GM: 2974309
• Chrysler: 2926370
• Fits 198, 1016, 1034, 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, 68, 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: D3AZ-13410A, D80Z-15A434A
• 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 NEW
• Fits H8 & H11 bulbs
• 18 GA, 12" wire
84-1081

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

SOCKET REPAIR ASSEMBLY NEW
• Fits H880 bulbs
• 18 GA, 12" wire
84-1083

SEAL BEAM & FLASHER ASSEMBLY
• For 2 terminal sealed beam headlights or 2 terminal flashers
• LS145, PT270, 1210879, 88860447
• 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, 888, 886, 889, 890, 892, 893, 894, 896, 899 bulbs
• PT120, 12043215, 12085498
• 18 GA, 12" wire
84-1072

ALTERNATOR TERMINAL REPAIR ASSEMBLY
• Weather-pack seal connector
• Includes internal voltage regulator
• GM: 6294493, PT181, 624493, 12101909
• 12 GA 12’ red & 16 GA 12’ white wire
84-1034
### Socket Repair Assembly

**Pigtail & Sockets**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Code</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-1056</td>
<td>Stop, tail, turn, park &amp; license lamps</td>
<td>18 GA, 8” wire, 90 degree; low profile</td>
<td>GM: 12003759, 12089348, Chrysler: 8218931, 4450816, 4331051</td>
</tr>
<tr>
<td>84-1057</td>
<td>Front turn &amp; signal lamps</td>
<td>Fits 1157 bulbs</td>
<td>Ford: D4ZZ-13234A</td>
</tr>
<tr>
<td>84-1064</td>
<td>Stop, tail, turn &amp; signal lamps</td>
<td>Fits 1034, 1154, 1157 bulbs</td>
<td>GM: 12083689</td>
</tr>
<tr>
<td>84-1067</td>
<td>Stop, tail, turn &amp; park lamps</td>
<td>Fits 1034, 1154, 1157 bulbs</td>
<td>Ford: D0AZ-13410-B, D1AZ-A, D2AZ-B, D3AZ-A</td>
</tr>
</tbody>
</table>

**3 Wire**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Code</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-1049</td>
<td>Stop, turn &amp; park lamps</td>
<td>Fits 3057, 3157, 415 bulbs</td>
<td>GM: 12083006, 12092377</td>
</tr>
<tr>
<td>84-1086</td>
<td>Headlamp Connector Harness: High/Low Beam</td>
<td>Fits 3057, 3157, 415 bulbs</td>
<td>GM 1988 &amp; up</td>
</tr>
<tr>
<td>84-1039</td>
<td>SEAL Beam &amp; Flasher Assembly</td>
<td>ABS molded housing; universal</td>
<td>Fits 9004, 9007 bulbs</td>
</tr>
<tr>
<td>84-1006</td>
<td>Sealed Beam Harness Assembly</td>
<td>For 3 terminal sealed beam lamps with fiber optics</td>
<td>Domestic and import vehicles</td>
</tr>
<tr>
<td>84-1035</td>
<td>Dimmer Switch Assembly</td>
<td>For dimmer switches</td>
<td>AMC: 3160926, Mopar: 1881938, 2497158, Motorcraft: SW-263</td>
</tr>
</tbody>
</table>

**NEW**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Code</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-1084</td>
<td>Fits 3057, 3157 bulbs</td>
<td>GM: 12083689</td>
<td>18 GA, 12” wire</td>
</tr>
<tr>
<td>84-1085</td>
<td>Fits H13 &amp; 9008 bulbs</td>
<td>18 GA, 12” wire</td>
<td></td>
</tr>
<tr>
<td>84-1067</td>
<td>Stop, tail, turn &amp; park lamps</td>
<td>Fits 1034, 1154, 1157 bulbs</td>
<td>18 GA, 6” wire</td>
</tr>
</tbody>
</table>

**Note:** All items are available from stock and may be ordered by calling 1-800-268-5612 or visiting www.grote.com.
CIGARETTE LIGHTER POWER PLUG
- Provides a power source through a cigarette lighter plug-in port
- 2, 18 GA wires

POWER SOCKET, PANEL MOUNT
- 12V panel mount power socket
- Includes socket, mounting bracket and locking ring
- 2, .250” quick disconnect terminals

POWER SOCKET
- 12V power socket with pre-wired fuse holder & cap
- 2, 18 GA wires with .250” quick disconnects