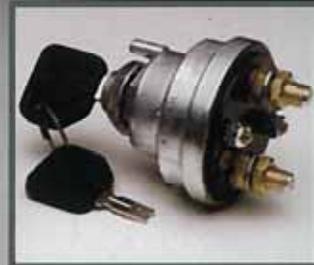


Pollak™

A Stoneridge Company

engineered  
solutions  
to design  
challenges

Worldwide



# ALPHABETICAL INDEX

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## WARRANTY

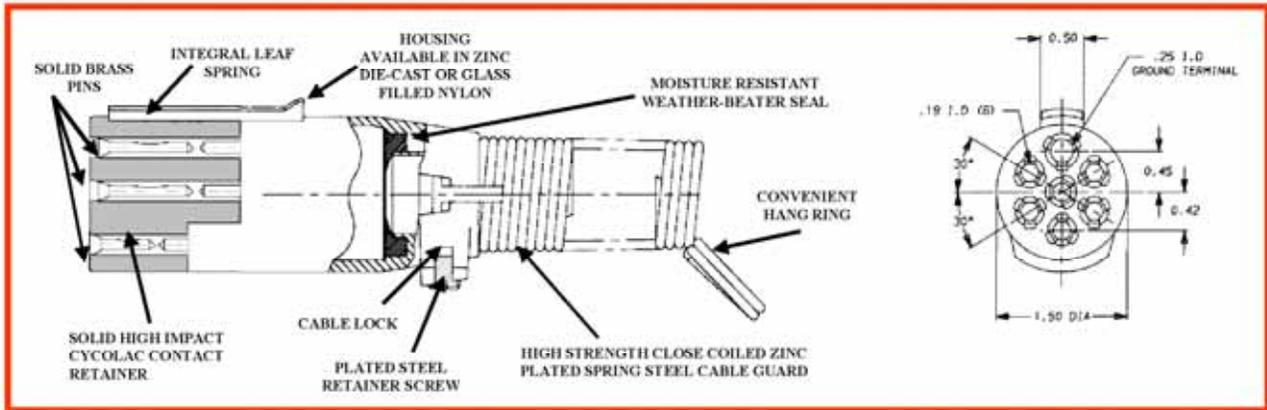
Our products are warranted to be free of manufacturing defects for one (1) year after date of manufacture. Buyer's exclusive remedy and seller's sole liability hereunder shall be limited to refund of the purchase price or replacement of product shown to be other than as warranted. Conditions resulting from misuse, negligence, accident or improper installation, maintenance or application shall absolve seller of all liability. The foregoing constitutes the sole warranty of Pollak™ with respect to its products and is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose. In no event shall Pollak™ be liable of consequential or special damages.

The product information published in this catalog is subject to change without notice. Changes to materials, finishes, technical specifications and other product characteristics may be necessary at our discretion. It is the buyer's responsibility to determine the suitability of the Pollak™ device for its application. Pollak™ makes no warranties, and assumes no liability as to the suitability or sufficiency for buyer's application of the device.

# CONNECTORS & ADAPTERS



# 7-POLE PLUGS



## ZINC DIE-CAST

## GLASS FILLED NYLON

### Insertion and Pull-Out Requirements

- Meets and exceeds all standards of SAE J560.
- Floating pins for ease of alignment and maximum contact.
- Will accept the widest range of wire gauges, from #16 wires to #8 ground wire.
- Tapered design fits comfortably and conveniently for easy hand-position pull. Jumbo finger pull grips and two hang-up holes.
- High-impact cyclac interior with extended lip for easy removal and replacement.
- Solid brass terminal screws.
- 40 amps continuous duty @ 6-28 VDC.
- WeatherBeater seal accommodates .450 minimum wire diameter.

**11-902**  
Weather-Beater Plug with Cable Guard



**11-702**  
Standard 7-Pole Plug with Cable Guard

**11-900**  
Weather-Beater Plug



**11-700**  
Standard 7-Pole Plug

**11-910**  
Weather-Beater Plug with Cable Guard



**11-710**  
Standard 7-Pole Plug with Cable Guard



**11-704**  
Standard 7-Pole Plug

**11-904**  
Weather-Beater Plug

NOTE: Pollak's™ Terminal Pins are machined from solid brass bar stock unlike some competitors that provide unplated terminal pins stamped from sheet metal. Brass terminals ensure minimum voltage drop and dielectric grease protects against corrosion and resistance.

NOTE: Pollak's™ 7-Pole connectors are manufactured from quality materials and will help reduce maintenance cost and down-time associated with electrical failures.

## ACCESSORIES

**11-762**  
Rubber Boot  
Seals against dust and moisture, 2.5" long. For .460-.720 dia. cable, fits 11-852, 11-700, 11-900, 11-704, 11-904.



**11-763**  
Cable Guard  
Plated steel, 3.56" long, fits 11-700, 11-704, 11-900, 11-904, and 11-852



**11-764**  
Plug interior for 11-700, 11-702, 11-704, 11-710, 11-900, 11-902, 11-904, 11-910. Supplied with mounting screw.



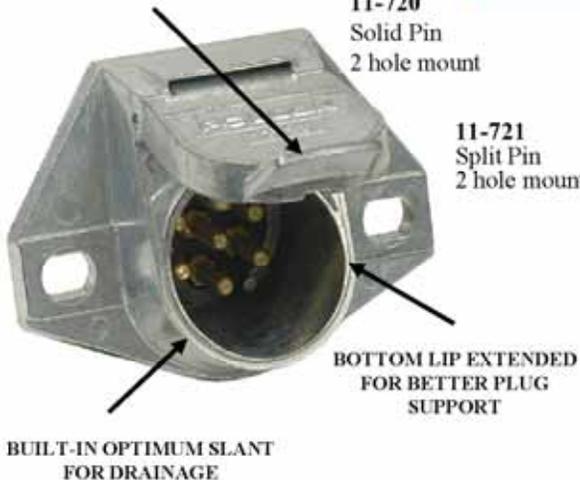
# 7-POLE SOCKETS

- Meets and exceeds all standards of **SAE J560** (SAE applies only to solid pins)
- Floating pins for ease of alignment and maximum contact.
- Optimum slant mount and drain slot rid housing interior of accumulated moisture.
- Will accept the widest range of gauges from #16 wires to #8 ground wire. Ground Terminal Pin #1 will accept #14 gauge min. to #8 gauge max. Other terminals will accept #16 gauge min. to #10 gauge max.
- 40 Amps continuous duty @ 6-28 VDC.
- Self grounded. (Zinc Die-Cast Units Only) to #1 Ground Terminal.
- Stainless steel spring.
- Recommended Mounting Hole is 2" diameter
- Interchangeable with competitive makes.

| No. | Color  | Wire Gauge | FMVSS-121 Anti-Lock Gauge | Circuit   |
|-----|--------|------------|---------------------------|---|
| 1   | White  | 10         | 8                         | Ground Return                                   |
| 2   | Black  | 12         | 12                        | Clearance, Side Marker and Identification Lamps |
| 3   | Yellow | 12         | 12                        | Left Turn & Hazard Signal                       |
| 4   | Red    | 12         | 10                        | Stop Lamps & Anti-Lock Devices                  |
| 5   | Green  | 12         | 12                        | Right Turn Signal & Hazard Signal               |
| 6   | Brown  | 12         | 12                        | Tail, Rear Clearance Marker, License Plate Lamp |
| 7   | Blue   | 12         | 12                        | Auxiliary Circuit / ABS Power                   |

## WIRE INSERTION STYLE SOCKETS

DRAIN SLOT IN COVER



ZINC  
DIE-CAST



POLLA/GLASS  
GLASS FILLED  
NYLON

**11-724**  
Nylon socket  
Split Pin

**11-723**  
Nylon socket  
Solid Pin



## ACCESSORIES



**11-761**  
7 Pole Socket  
Rubber Socket Boot  
for 11-720, 11-721, 11-723, 11-724, 11-729, 11-730 and 11-851 seals against dust and moisture, 1.5" long. For .460-.720 diameter cable.

### Hardware Kits

Another first from Pollak™ to facilitate field service for minor repair problems. Hardware Kits for Pollak™ Plugs and Sockets. Each kit is shipped within a plastic bag and includes enough hardware to repair 10 plugs or sockets.

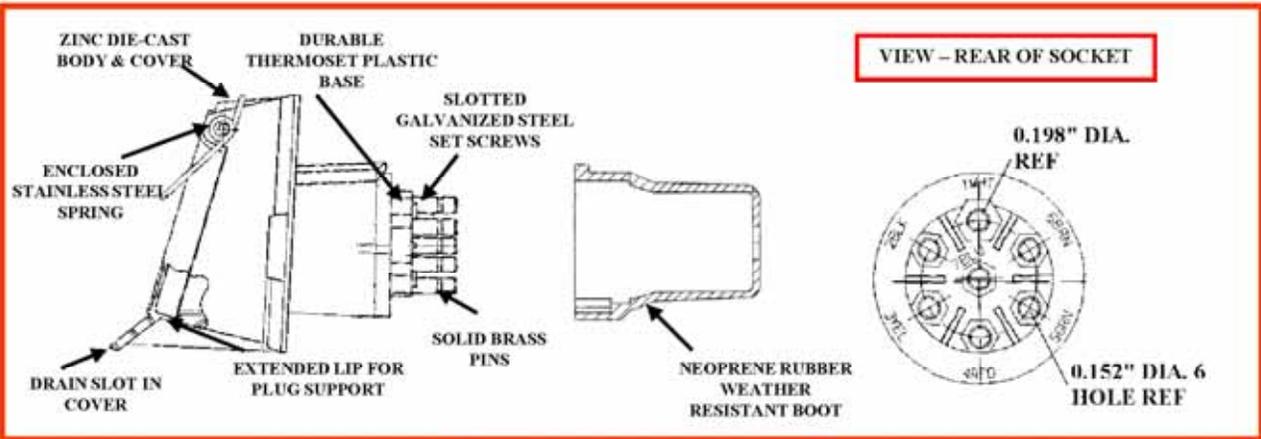


**11-781**  
Hardware Kit  
for 7-Pole Zinc  
Die-Cast Socket

**11-777**  
Hardware Kit  
for 7-Pole Plugs  
(except RV)

**11-779**  
Hardware Kit for  
7-Pole Molded  
Polla/Glass Sockets

# 7-POLE SOCKETS



## RING TERMINATION STYLE SOCKETS

**11-785**  
 Same as 11-720 except with rear threaded terminals for ring terminals. Solid Pins.



**Note:** For some applications ring terminals provide a better mechanical connection than set screws when properly installed.

## BULLET TERMINATION STYLE SOCKETS

**11-786**  
 Bullet-Style solid brass terminals for push-on terminals. Will accept straight or "right angle" terminals. Extended hinge pin and external spring for increased closure force.



**11-797**  
 Same as 11-786 except without extended hinge pin and external spring. Solid Pins



**11-833 (Not Shown)**  
 Same as 11-797 except with glass filled nylon shell and lid

## ACCESSORIES



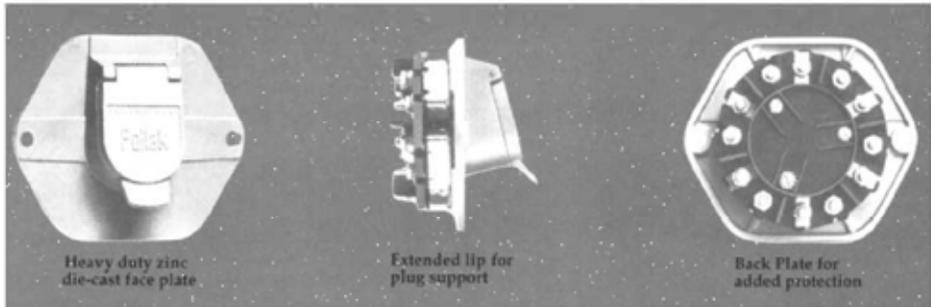
**11-771**  
 7-Pole Socket bracket. Fits all 7-Pole Sockets including 11-851.



**11-773**  
 Same as 11-780 except for 2 hole mount sockets.

**11-780**  
 Neoprene rubber gasket for 3 hole mount die-cast sockets. May be used as template

# 7-POLE SOCKETS WITH REPLACEABLE CIRCUIT BREAKERS



Heavy duty zinc die-cast face plate

Extended lip for plug support

Back Plate for added protection

*Base plate and back plate made from rugged glass filled nylon to resist breaking. Bottom lip has been extended to allow for better plug and cable support. Drain hole has been incorporated into the housing to allow accumulated moisture to escape. Will accept the widest range of wire gauges from #14 wire to #8 ground wire. Will accept all plugs conforming to SAE J560 specifications. Ground may be tied to any screw mounting the rear terminal plate. Designed to provide easy serviceability of circuit breakers. Recommended that positive feed be attached to auxiliary post on circuit breaker.*

| WIRE INSERTION STYLE  | RING TERMINATION STYLE   |   |
|---|--|---|
| <p><b>11-732</b><br/>Solid Pin</p> <p><b>11-733</b><br/>Split Pin</p> | <p>Standard socket adapted to circuit breaker mounting plate without breakers. For use as a replacement of original equipment when circuit breaker protection is not required.</p> <p><b>11-810</b><br/>Solid Pin</p> <p><b>11-796</b><br/>Split Pin</p> <p><b>Not shown</b></p> | <p><b>Metal Circuit Breaker</b></p> <p><b>Plastic Circuit Breaker</b></p> |

**Glass filled nylon nose box offers more durability and weight saving features. Replaces old style heavy weight metal boxes which can cause short circuits.**

| Amperage | Pin Type | Part No. | Replacement Circuit Breaker Metal Housing | Replacement Circuit Breaker Plastic Housing |
|----------|----------|----------|---|---|
| 15       | Split    | 11-735   | 54-115                                    | *   |
| 20       | Solid    | 11-736   | 54-120                                    | 54-120PL                                    |
| 20       | Split    | 11-737   | 54-120                                    | 54-120PL                                    |
| 30       | Split    | 11-739   | 54-130                                    | 54-130PL                                    |

## COMPONENT PARTS

| Part No. | Description                                   |
|----------|---|
| 11-801   | Adapter Housing Gasket                        |
| 11-802   | Adapter Housing (Includes Grommet and Screws) |

**11-801**  
Adapter Housing Mounting Gasket provides weather resistant protection against rain and snow.

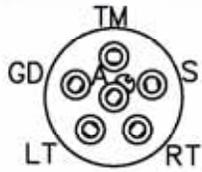


**11-802**  
Adapter Housing



# 6-POLE CONNECTORS

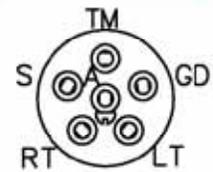
## 6-POLE SOCKET



(Auxiliary in center)

| Number | Color  | Circuits                   |
|--------|--------|----------------------------|
| GD     | White  | Ground Return              |
| TM     | Brown  | Tail Lights                |
| LT     | Yellow | Left Turn                  |
| S      | Red    | Stop and/or Electric Brake |
| RT     | Green  | Right Turn                 |
| A      | Blue   | Auxiliary Circuit (Center) |

## 6-POLE PLUG



(Auxiliary in center)

### Complete Assemblies (Plug and Socket)

| Part No | Plug   | Socket |
|---------|--------|--------|
| 11-600  | 11-604 | 11-607 |
| 11-602  | 11-604 | 11-608 |
| 11-603  | 11-604 | 11-609 |

**11-603** Assembly incorporates concealed terminals on socket side for exterior mounting. Recommended for RV and flat bed trailer use.

Three socket versions to choose from: Exposed terminals, Rubber boot coverage, or Die-Cast shell coverage. High impact plug interiors keyed for proper assembly. Machined brass terminal pins for best conductivity, terminals accept up to #12 gauge wires. Plug available with or without cable guard. Replaceable plug interior helps reduce maintenance costs. Plated steel cable guard prevents cable chafing. Two 1/4" diameter mounting holes on 6-Pole sockets. 2-7/8" diameter on center. Mounts through 1-3/8" diameter hole.

Note: Pollak's™ 4-pole and 6-pole interiors are secured with a key and keyway to eliminate twisting (disorientation) and breakage with make and break forces that apply in normal function.

**11-604**

Plug, no cableguard



**11-605**

Plug with cableguard



**11-607**

Socket, exposed terminals



**11-614**

Black Plastic Socket with metal lid



**11-608**

Socket with rubber boot



**11-609**

Socket, Concealed Terminals



**12-720**

6-Pole all Plastic Socket with rubber boot



**11-613**

Connector Plug Chrome Plated



## ACCESSORIES

**11-627**

Connector Bracket Designed to fit under the trailer tongue, ball, or 2-hole frame mounting. Heavy gauge with black zinc coating for protection against rust and corrosion. Fits connectors 11-400, 11-408, 11-500, 11-600, 11-603, and 11-614.



**11-617**

Same as 11-627 except without black zinc coating for protection against rust and corrosion

**11-606**

Plug interior



**11-616**

Rubber Boot for 11-607 and 11-614 Sockets

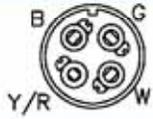


**11-626**

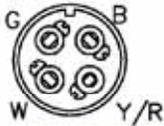
Hardware kit for 6 pole plugs

# 4 & 5-POLE CONNECTORS

## 4-POLE SOCKET

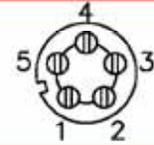


## 4-POLE PLUG

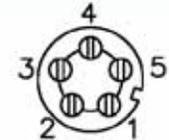


| 4-POLE POS | 5-POLE POS | Color     | Circuits                  |
|------------|------------|-----------|---------------------------|
| W          | 1          | White     | Ground Return             |
| G          | 5          | Green     | Right Turn & Brake Lights |
| Y/R        | 3          | Yellow or | Left Turn & Brake Lights  |
|            | 4          | Red       |                           |
| B          | 2          | Brown     | Tail Lights               |

## 5-POLE SOCKET



## 5-POLE PLUG



### 4-POLE CONNECTORS - 12-24 Volts, 35 Amp.

- Zinc Die-Cast 4-pole unit incorporates many new and improved features.
- Extended exterior and socket conceals terminals.
- Unique cable clamp prevents chafing, gives more cable support, and saves installation time.
- Integral finger grips for positive pull, difficult to shake loose.
- Stainless steel spring.
- Dust and water resistant.
- Polarized for proper wiring
- Terminals accept up to #12 gauge wire.
- Two 1/4" diameter mounting holes on 4-pole sockets. 2-7/8" on center. Mounts through 1-3/8" diameter hole.

### Interchangeable with competitive brands.

**11-402**  
Plug, no cable guard



**11-404**  
Connector socket



**11-403**  
Plug with cable guard



**11-400**  
Consist of 11-402 Plug and 11-404 Socket.



### 4-POLE CONNECTORS - Chrome Plated, 12-24 Volts, 20 Amp

- Polarized design.
- Chrome Plated Die-Cast Zinc, with high impact insulators and split brass contacts.

**11-409**  
Connector Plug



**11-410**  
Connector socket



**11-408**  
Consists of 11-409 Plug and 11-410 Socket

### 5-POLE CONNECTORS - 12-24 Volts, 15 Amps

- Polarized design.
- Chrome plated zinc housing with spring loaded cover.
- Durable interiors.
- Split brass contact for maximum current carrying capacity.
- Mounting holes 1 3/4" diameter on centers.

**11-502**  
Connector socket

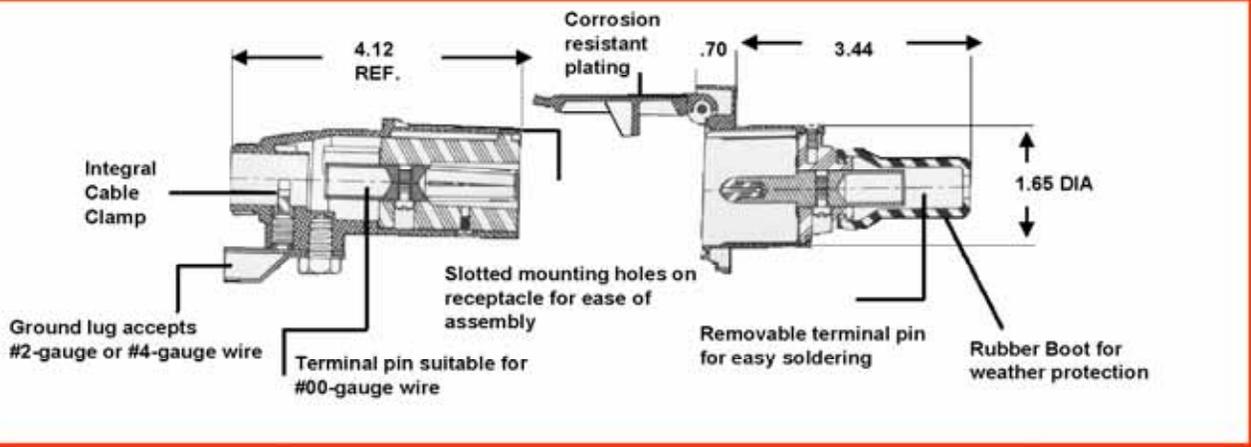


**11-500**  
Consist of 11-501 Plug and 11-502 Socket

**11-501**  
Connector plug



# SINGLE POLE CONNNECTORS



*This rugged Single-pole Connector has a continuous duty capacity of 300 amps, and is ideal for many power applications on trucks, agricultural equipment, utility vehicles, winches, light air-craft ground equipment, etc. The connector is interchangeable with competitive brands.*

*Provides power for auxiliary equipment from battery.*

11-852 Plug



**11-850**  
Consist of 11-852 Plug and 11-851 Socket

11-851 Socket



**11-853**  
Consist of 11-852 Plug and 11-763 Cable Guard



## ACCESSORIES

**11-762**  
Rubber Boot seals against dust and moisture.  
Fits 11-852



**11-763**  
Cable Guard  
Plated Steel 3.56 long. Fits 11-852

**11-771**  
Socket Bracket.  
Fits 11-851



**52-138**  
Battery Jumper Terminal Positive (Red Cap)



**52-139**  
Battery Jumper Terminal Negative (Black Cap)



# CONNECTOR ASSEMBLIES

## WIRE GAUGE SELECTION CHART

Note: This chart is based upon a 10% voltage drop. For 5% voltage drop, use double the measured wire length. When mechanical strength is a factor, use next larger wire gauge.

| 12-VOLT SYSTEM  |                 |  |                 |                  |                  |                  |                  |                  |                  |                  |                   | 12-VOLT SYSTEM  |                 |  |                 |                  |                  |                  |                  |                  |                  |                  |                   |
|-----------------|-----------------|--|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-----------------|-----------------|--|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| AMPS<br>(Appl.) | Candle<br>Power | Total length of Cable in Circuit from Battery to Most Distant Lamp |                 |                  |                  |                  |                  |                  |                  |                  |                   | AMPS<br>(Appl.) | Candle<br>Power | Total length of Cable in Circuit from Battery to Most Distant Lamp |                 |                  |                  |                  |                  |                  |                  |                  |                   |
|                 |                 | 2.5<br>Ft.<br>GA.  | 5<br>Ft.<br>GA. | 10<br>Ft.<br>GA. | 20<br>Ft.<br>GA. | 30<br>Ft.<br>GA. | 40<br>Ft.<br>GA. | 50<br>Ft.<br>GA. | 60<br>Ft.<br>GA. | 80<br>Ft.<br>Ga. | 100<br>Ft.<br>Ga. |                 |                 | 2.5<br>Ft.<br>GA.  | 5<br>Ft.<br>GA. | 10<br>Ft.<br>GA. | 20<br>Ft.<br>GA. | 30<br>Ft.<br>GA. | 40<br>Ft.<br>GA. | 50<br>Ft.<br>GA. | 60<br>Ft.<br>GA. | 80<br>Ft.<br>Ga. | 100<br>Ft.<br>Ga. |
| 1.0             | 6               | 20   | 20              | 20               | 20               | 20               | 20               | 20               | 20               | 20               | 18                | 12              | 100             | 20   | 20              | 18               | 16               | 14               | 12               | 12               | 10               | 10               | 8                 |
| 1.5             | 10              | 20   | 20              | 20               | 20               | 20               | 20               | 20               | 20               | 20               | 18                | 15              | 120             | 20   | 20              | 18               | 14               | 12               | 12               | 10               | 10               | 8                | 8                 |
| 2               | 16              | 20   | 20              | 20               | 20               | 20               | 20               | 20               | 18               | 18               | 16                | 18              | 140             | 20   | 20              | 16               | 14               | 12               | 10               | 10               | 8                | 8                | 8                 |
| 3               | 24              | 20   | 20              | 20               | 20               | 20               | 20               | 18               | 18               | 16               | 16                | 20              | 160             | 20   | 18              | 16               | 12               | 12               | 10               | 10               | 8                | 8                | 6                 |
| 4               | 30              | 20   | 20              | 20               | 20               | 18               | 16               | 16               | 16               | 16               | 14                | 22              | 180             | 20   | 18              | 16               | 12               | 10               | 10               | 8                | 8                | 8                | 6                 |
| 5               | 40              | 20   | 20              | 20               | 18               | 18               | 16               | 14               | 14               | 12               | 12                | 24              | 200             | 20   | 18              | 16               | 12               | 10               | 10               | 8                | 8                | 6                | 6                 |
| 6               | 50              | 20   | 20              | 20               | 18               | 16               | 16               | 14               | 14               | 12               | 12                | 36              |                 | 20   | 16              | 14               | 10               | 8                | 8                | 6                | 6                | 6                | 4                 |
| 7               | 60              | 20   | 20              | 20               | 18               | 16               | 14               | 14               | 12               | 12               | 10                | 50              |                 | 18   | 16              | 12               | 10               | 8                | 6                | 6                | 4                | 4                | 2                 |
| 8               | 70              | 20   | 20              | 20               | 16               | 16               | 14               | 12               | 12               | 10               | 10                | 100             |                 | 14   | 12              | 10               | 6                | 4                | 4                | 2                | 2                | 1                | 0                 |
| 10              | 80              | 20   | 20              | 18               | 16               | 14               | 12               | 12               | 12               | 10               | 10                | 150             |                 | 14   | 10              | 8                | 4                | 2                | 2                | 1                | 0                | 00               | 000               |
| 11              | 90              | 20   | 20              | 18               | 16               | 14               | 12               | 12               | 10               | 10               | 8                 | 200             |                 | 12   | 8               | 6                | 4                | 2                | 1                | 0                | 00               | 000              | 0000              |

12-24 Volts 20 Amp. Polarized design with high impact interior and split brass contacts for a perfect fit to ensure maximum current carrying capacity. Outer sleeves are unaffected by ozone or weather.



Car End Trailer End

**11-405**  
4-Pole Complete Assembly  
12-24 Volts, 20 Amp



Trailer End Car End

**11-200**  
2-Pole Complete Assembly  
12-24 Volts, 20 Amp

### AUTOMOTIVE, MARINE, RECREATIONAL VEHICLES, TRUCKS

12 Volts, 15 Amps. Molded Inline connectors (Flat Type) are an economical means of connecting electrical systems. Wires are color coded for easy installation. Standard 18 gauge automotive wire, 12" wire length, except where noted. Polarized design to insure proper connection. Molded case offers all-round weather protection.

#### FLAT TYPE



**12-200**  
2-Pole Complete Assembly,  
18 gauge wire.



**12-403**  
4-Pole Complete Assembly,  
18 gauge wire.



**12-404**  
4-Pole Complete Assembly with  
48" wire leads of female (car) side.  
12" leads on male (trailer) side

#### SQUARE TYPE



**12-600**  
6-Pole Complete  
Assembly 18 gauge wire.



**12-601**  
6-Pole Complete Assembly  
with 48" wire leads on female (car)  
side. 12" leads on male (trailer) side.

# 7-Pole RV Style Socket



**11-893 - RV Socket 12V, 30 Amps**



**12-711U  
Mounting  
Bracket**



**11-998  
Interlocking mating  
connector to the 11-893  
Socket and 4' Harness.**

- Pollak's™ sealed RV socket is designed to be dependable in one of the harshest mounting environments for an electrical device - an exposed external mounting under the rear bumper of a sport utility or pickup truck. This connector design continues to earn the distinction of becoming the industry standard.
- Manufactured from high-impact nylon that solves corrosion problems and eliminates rusting when mated with special interlocking sealed connector.
- Socket lid features stainless spring and runner gasket to guarantee against moisture intrusion when closed. Socket lid also designed with slot to prevent sand and dirt from impairing closure and lid has wiring diagram on cover to facilitate installation.
- Socket lid also has a drain slot and is angled down for drainage.
- Terminal pins are tin plated copper alloy providing higher conductivity and less resistance and are sealed at the back of socket with silicone sealant to prevent moisture from making contact with mating connector.
- Fits Ford style and new universal Pollak™ 12-711U mounting bracket for other OEM applications. **NEW** – Includes mounting hardware.

## SOCKET KITS

&

## 7-Pole RV Style Socket

### 11-898P

Includes 11-893 Socket, 12-711U Bracket, Interlocking Connector and 4' Harness assembly with 0.5" convoluted tubing, and 7-wire leads color coded to RVI Standard (**SHOWN**)

### 11-990P

Includes 11-893 Socket and 12-711U Bracket  
**NEW** – Includes mounting hardware.



### 11-916

New 'twist and lock' socket, suitable as a replacement for Pollak OEM sockets.

## ADAPTERS

### 11-933

Rectangular-To-Round Harness Adapter.

- Fits OEM Harnesses.
- Mates with Pollak™ Socket 11-893 and 11-932P



**11-933  
Adapter**

### 11-893 Socket



**11-938 Kit  
11-893 Socket & 11-932 T-Connector**

### 11-932

T-Connector

- Adaptor for 5<sup>th</sup> Wheel & Bumper Mount Socket
- Quickly & Easily Installs a Second RV Socket
- Plug and Play without Splicing into OEM Harness
- Fits GM and Ford Trucks and SUV's
- Fits Chrysler Trucks when used with 11-933 Adapter
- Mates with Pollak™ Socket 11-893



## 7-POLE CONNECTOR

### 12-705 Series (7-Pole Set) Black Pollak™ Plastic

|        |   |
|--------|---|
| 12-705 | Complete Set (12-707 and 12-706)          |
| 12-706 | Trailer-End Only Plug                     |
| 12-707 | Car-End Only Socket                       |
| 12-709 | 12-705 Plug & Socket with 12-711U Bracket |
| 12-712 | 12-707 with a 12-711U Bracket             |



Plastic connector set eliminates rusting, poor appearance and difficulty in plug removal. Design offers dual grips for ease of plug removal from socket and incorporates vinyl inserts to keep out dirt and moisture. Interior design prevents internal short-circuiting, and the safety latch prevents damage from accidental pull-away. Color coded to RV standards.

### 12-700 Series (7-Pole Set) Metal

|        |   |
|--------|---|
| 12-700 | 12-703 Socket & 12-702 Plug               |
| 12-702 | Trailer-End Only Plug                     |
| 12-703 | Car-End Only Socket                       |
| 12-704 | 12-700 Plug & Socket with 12-701U Bracket |
| 12-710 | 12-703 with a 12-701U Bracket             |

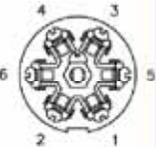


Traditional metal connectors. Heavily plated for maximum weather and corrosion resistance. Stainless steel cover spring. Jumbo welded pistol grip. Unique safety latch prevents damage from accidental pull-away. Specially designed vinyl inserts keep out dirt and moisture. Color coded to RV standards.

| RECOMMENDED WIRE GAUGE |        |       |                                  |
|------------------------|--------|-------|----------------------------------|
| No.                    | Color  | Gauge | Description                      |
| 1                      | White  | 10    | Ground Return                    |
| 2                      | Blue   | 12    | Electric Brake                   |
| 3                      | Green  | 14    | Tail, License and Running Lights |
| 4                      | Black  | 10    | Battery Charge                   |
| 5                      | Red    | 14    | Stop & Left Hand Turn Signal     |
| 6                      | Brown  | 14    | Stop & Right Hand Turn Signal    |
| 7                      | Yellow | 14    | Auxiliary Circuit                |

#### UNIQUE INTERIOR DESIGN ELIMINATES SHORTING OUT-

Non-corroding, shock-resistant interiors with unique terminal reinforcer dams that eliminate short circuiting by preventing contact from spreading.



Center pin will take up to 8-gauge wire for battery charge system.

## 9-POLE CONNECTOR

- Staking methods proven in long term usage. No possibility of molding compound contaminating contacts to cause "dead spots".
- Unique method of machining from solid bar (not stamping) and spring loading contacts give long trouble-free service. Over 1.5 million trucks utilize this type of heavy duty connector contacts.
- "Floating Pins" originating with POLLAK™ and a standard for the trucking industry are self-aligning offering continuous wiping action and the most positive contact.
- Terminals designed for 2-8 gauge, 2-12 gauge and 5-14 gauge to new industry standard for minimum voltage drop.
- Contacts on BOTH trailer and car side spring loaded. Completely FIELD serviceable.



12-907  
Car End

12-906  
Trailer End

### 12-905 Series (9-Pole Set)

|         |  |
|---------|--|
| 12-905  | Complete for towing vehicle and trailer side |
| 12-906  | Trailer Side                                 |
| 12-907  | Towing vehicle side                          |
| 12-701U | Bracket for towing vehicle                   |

| RECOMMENDED WIRE GAUGE |        |       |                                      |
|------------------------|--------|-------|--------------------------------------|
| No.                    | Color  | Gauge | Description                          |
| 1                      | White  | 8     | Ground Return                        |
| 2                      | Blue   | 12    | Electric Brake                       |
| 3                      | Green  | 14    | Tail, License and Running Lights     |
| 4                      | Black  | 8     | Battery Charge                       |
| 5                      | Red    | 14    | Stop & Left Hand Turn Signal         |
| 6                      | Brown  | 14    | Stop & Right Hand Turn Signal        |
| 7                      | Yellow | 14    | Back-Up, Auxiliary Ground or Circuit |
| 8                      | Gray   | 12    | Auxiliary Circuit                    |
| 9                      | Orange | 14    | Reefer (Tag) or Stop                 |

#### MOUNTING BRACKETS

Right Angle Mounting Brackets for: 11-893, 12-703, 12-707, 12-907 **NEW** - Includes mounting hardware.



**12-711U**  
Black Epoxy Coated for protection against rust and corrosion

**12-701U**  
Constructed of Heavy Gauge Steel. Same as 12-711U but without black epoxy finish.

# Trailer Tow Accessories

## TRAILER WIRING TIPS

Avoid splices wherever possible \* Establish a solid electrical ground \* Maintain clean and weatherproof wire connections  
\* Make sure that the various wires and harnesses are free of stress and are not dragging or likely to be snagged \*

### 12-717 Connector Adaptor (6-Pole to 4-Pole)

- Converts 6-Pole Round Connector to a 4-Pole molded connector.
- Quick and easy to connect.
- Non-corrosive nylon shell and insert.
- Eliminates makeshift jumpers.



### 12-716 Connector Adaptor (7-Pole to 4-Pole)

- Converts 7-Pole Blade Connector to a 4-Pole molded connector.
- Allows one vehicle to tow either campers or boat trailers without electrical brakes.
- Connects ground, L.T., R.T., and Stop Circuits.
- Tethered cap for protection from sand, dirt or moisture intrusion.
- Non-corrosive nylon shell and insert.
- Eliminates makeshift jumpers.



### 12-744 Connector Adaptor (7-Pole to 5-Pole; not shown)

### 12-718 Connector Flex Adaptor (7-Pole to 5-Pole)

- Converts 7-Pole Blade Connector to a 5-Pole molded connector.
- Allows one vehicle to tow either campers or boat trailers with electrical brakes.
- Quick and easy to connect.
- Full-length plug shell insures positive latching.
- Non-corrosive nylon shell and insert.



### 12-743 Connector Flex Adaptor (7-Pole to 4-Pole; not shown)

### 12-719 & 12-729 Connector Adaptor (7-Pole to 6-Pole)

- Converts 7-Pole Blade Connector to a 6-Pole Round Connector Plug.
- Allows one vehicle to tow either campers or Utility trailers.
- Quick and easy to connect.
- Non-corrosive nylon shell and insert.
- 12-719 Adapter had brake pin in center of 6-Pole (Shown)
- 12-729 Adapter has auxiliary pin in center of 6-Pole



### 11-932 T-Connector

- Adaptor for 5th Wheel & Bumper Mount Socket
- Quickly & Easily Installs a Second RV Socket
- Plug and Play without Splicing into OEM Harness
- Fits GM and Ford Trucks and SUV's
- Fits Chrysler Truck when used with 11-933 Adapter
- Mates with Pollak Socket 11-893



### 11-933 Rectangular-To-Round Harness Adapter

- Fits OEM Harnesses.
- Mates with Pollak Socket 11-893 and 11-932



## Cable Assembly (Repairable)

**14-117**  
Pollak™ Plastic Trailer End  
12-706 with 8 ft. of Cable.



## 12 Volt Adapter

12 Volt Power When You Need It  
*"The Tailgater's Best Friend"*

**11-896**  
Power Adapter plugs into any  
7-Pole Blade Connector to  
provide 12 volts of power



# Trailer Tow Accessories



7 Way Pin Plug to 7 Way RV Type Socket **12-724**



## Adapters



6 Way Round Plug to 7 Way RV Type Socket **12-725**



4 Way Flat Plug to 6 Way Round Metal Socket **12-610**



4 Way Pin Plug to 4 Way Flat Flex Adapter **12-411**



4 Way Flat Plug to 7 Way RV Type Socket **12-723**



4 Way Flat Plug to 7 Way Round Metal Socket **12-726**



7 Way Pin Plug to 4 Way Flat Adapter **12-742**

By popular demand, Pollak™ is pleased to introduce its newest offering of Trailer Tow Products. Pollak™, the OEM Trailer Tow Supplier of choice. Pollak™ extends this product leadership with this new latest offering of quality accessories.



## Testers



7 Pin Circuit

**12-741**



4 Pin Circuit

**12-410**

## Tail Light Converters



Regular Duty 60" **12-751**



Heavy Duty 60" **12-750**

# SWITCHES



# SWITCHES

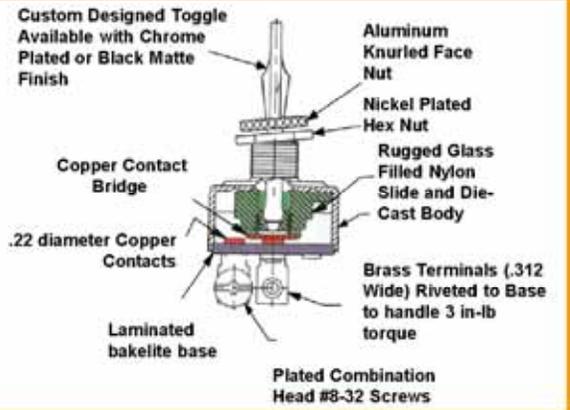
## 50 AMPS 6-24 VOLT TOGGLE SWITCHES

Pollak™ Toggle Switches designed for many high-current applications. Oversized internal copper contacts will carry up to 50 AMP current loads. Provides the longest possible service life. (Note: Quick-Connect Blade terminals will carry 30 AMPS.)

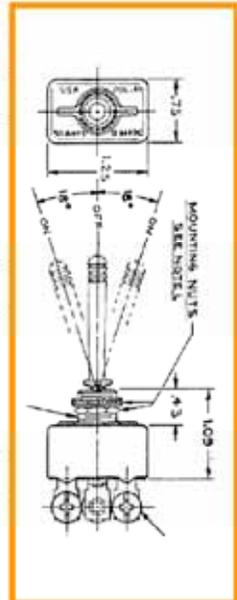
**34-216**  
Standard  
Chrome Handle  
(Quick-Connect  
Terminals)



**34-220**  
Long Chrome  
Handle #8-32  
Screw Terminal



| Part No.                                    | Circuitry         | No. of Terminals | Terminal Type | Handle Length | Handle Type | DC Volts | DC Amps |
|---|-------------------|------------------|---------------|---------------|-------------|----------|---------|
| <b>S.P.S.T (SINGLE POLE - SINGLE THROW)</b> |                   |                  |               |               |             |          |         |
| 34-212                                      | On-Off            | 2                | Screw         | Std. 1"       | Chrome      | 12       | 50      |
| 34-213                                      | On-Off            | 2                | Screw         | Long 1.5"     | Chrome      | 12       | 50      |
| 34-216                                      | On-Off            | 2                | Blade         | Std. 1"       | Chrome      | 12       | 30      |
| 34-219                                      | On-Off            | 2                | Screw         | Std. 1"       | Black       | 12       | 50      |
| 34-226                                      | On-Off            | 2                | Blade         | Std. 1"       | Black       | 12       | 30      |
| <b>S.P.D.T (SINGLE POLE - DOUBLE THROW)</b> |                   |                  |               |               |             |          |         |
| 34-225                                      | On-On             | 3                | Screw         | Std. 1"       | Chrome      | 12       | 50      |
| 34-218                                      | On-Off-On         | 3                | Screw         | Std. 1"       | Chrome      | 12       | 50      |
| 34-222                                      | On-Off-On         | 3                | Screw         | Std. 1"       | Black       | 12       | 50      |
| 34-215                                      | Mom On-Off-Mom On | 3                | Screw         | Std. 1"       | Chrome      | 12       | 50      |
| 34-223                                      | Mom On-Off-Mom On | 3                | Screw         | Std. 1"       | Black       | 12       | 50      |
| 34-220                                      | Mom On-Off-Mom On | 3                | Screw         | Long 1.5"     | Chrome      | 12       | 50      |



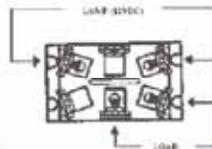
## NYLON HANDLE DECORATOR STYLE 20 AMPS AT 12 VOLTS DC TOGGLE SWITCHES

Decorator style toggle switches designed with an O-Ring seal between toggle and bushing for splash proof reliability. Durable nylon housing, nylon face nut and brass terminals resist corrosion. Lighted versions have transparent Lexan handle. 20 AMPS @ 12 VDC.

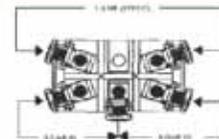
**34-586Q**  
.250 Blade  
Terminals



**34-586Q**

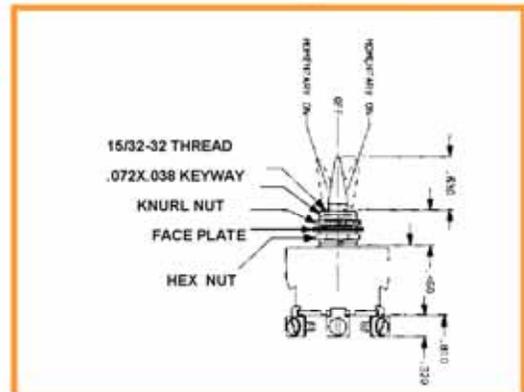


**34-588**



| Part No.                                    | Circuitry | No. of Terminals | Terminal Type | Handle Length | Handle Type |
|---|-----------|------------------|---------------|---------------|-------------|
| <b>S.P.S.T (SINGLE POLE - SINGLE THROW)</b> |           |                  |               |               |             |
| 34-581Q                                     | On-Off    | 2                | Blade         | Std. 11/16"   | Black       |
| 34-586                                      | On-Off    | 4                | Screw         | Std. 11/16"   | Lighted     |
| 34-586Q                                     | On-Off    | 4                | Blade         | Std. 11/16"   | Lighted     |
| <b>S.P.D.T (SINGLE POLE - DOUBLE THROW)</b> |           |                  |               |               |             |
| 34-588                                      | On-Off-On | 5                | Screw         | Std. 11/16"   | Lighted     |
| 34-588Q                                     | On-Off-On | 5                | Blade         | Std. 11/16"   | Lighted     |

Q = Quick Connect, .250 Terminals



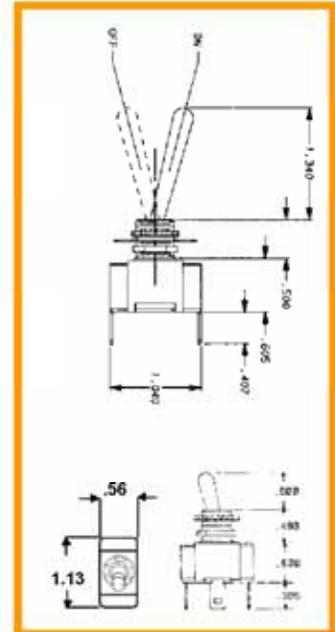
(See page 23 for Circuit Diagrams)

# SWITCHES

A complete selection of circuitry configurations for Truck, Off-Road, Automotive and Recreational Vehicle applications. Provides durable and long lasting solutions to new and replacement requirements. 20 Amps @ 12 VDC.

| Part No.                                       | Circuitry         | No. of Terminals | Terminal Type | Handle Length | Handle Type | Notes                           |
|--|-------------------|------------------|---------------|---------------|-------------|---------------------------------|
| <b>S.P.S.T. ( SINGLE POLE - SINGLE THROW )</b> |                   |                  |               |               |             |                                 |
| 33-302   | On-Off            | 2                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-571   | On-Off            | 2                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-571Q  | On-Off            | 2                | Blade         | Std. 11/16"   | Chrome      |                                 |
| 34-571L  | On-Off            | 2                | Screw         | Long 1.5"     | Chrome      |                                 |
| 34-571LQ                                       | On-Off            | 2                | Blade         | Long 1.5"     | Chrome      |                                 |
| 34-579   | On-Mom Off        | 2                | Screw         | Long 1.5"     | Chrome      |                                 |
| 34-579Q  | On-Mom Off        | 2                | Blade         | Long 1.5"     | Chrome      |                                 |
| 34-570   | Mom On-Off        | 2                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-570Q  | Mom On-Off        | 2                | Blade         | Std. 11/16"   | Chrome      |                                 |
| <b>S.P.D.T. ( SINGLE POLE - DOUBLE THROW )</b> |                   |                  |               |               |             |                                 |
| 34-572   | On-On             | 3                | Screws        | Std. 11/16"   | Chrome      |                                 |
| 34-572Q  | On-On             | 3                | Blade         | Std. 11/16"   | Chrome      |                                 |
| 34-573   | On-Off-On         | 3                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-573Q  | On-Off-On         | 3                | Blade         | Std. 11/16"   | Chrome      |                                 |
| 34-575   | Mom On-Off-Mom On | 3                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-575Q  | Mom On-Off-Mom On | 3                | Blade         | Std. 11/16"   | Chrome      |                                 |
| 34-596   | On-Off-Mom On     | 3                | Screw         | Std. 11/16"   | Chrome      |                                 |
| <b>D.P.S.T. ( DOUBLE POLE - SINGLE THROW )</b> |                   |                  |               |               |             |                                 |
| 34-574   | On-Off            | 4                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-574Q  | On-Off            | 4                | Blade         | Std. 11/16"   | Chrome      |                                 |
| <b>D.P.D.T. ( DOUBLE POLE - DOUBLE THROW )</b> |                   |                  |               |               |             |                                 |
| 34-576   | On-On             | 6                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-576Q  | On-On             | 6                | Blade         | Std. 11/16"   | Chrome      |                                 |
| 34-577   | On-Off-On         | 6                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-577Q  | On-Off-On         | 6                | Blade         | Std. 11/16"   | Chrome      |                                 |
| 34-577LQ                                       | On-Off-On         | 6                | Blade         | Long 1.5"     | Chrome      |                                 |
| 34-578   | Mom On-Off-On     | 6                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-578Q  | Mom On-Off-On     | 6                | Blade         | Std. 11/16"   | Chrome      |                                 |
| 34-580   | Mom On-Off-Mom On | 6                | Screw         | Std. 11/16"   | Chrome      |                                 |
| 34-580Q  | Mom On-Off-Mom On | 6                | Blade         | Std. 11/16"   | Chrome      |                                 |
| 34-580L  | Mom On-Off-Mom On | 6                | Screw         | Long 1.5"     | Chrome      |                                 |
| 34-580LQ                                       | Mom On-Off-Mom On | 6                | Blade         | Long 1.5"     | Chrome      |                                 |
| 34-591Q  | Mom On-Off-Mom On | 4                | Blade         | Std. 11/16"   | Chrome      | Reversing                       |
| 34-591LQ                                       | Mom On-Off-Mom On | 4                | Blade         | Long 1.5"     | Chrome      | Reversing                       |
| 34-592   | On-On             | 6                | Screw         | Std. 11/16"   | Chrome      | Reversing                       |
| 34-592Q  | On-On             | 6                | Blade         | Std. 11/16"   | Chrome      | Reversing                       |
| 34-593LQ                                       | On-Off-On         | 6                | Blade         | Long 1.5"     | Chrome      | DHP Circuits<br>Headlamp Switch |

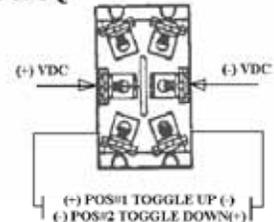
Q = Quick Connect .250 Terminals L = Long Handle 1.5"



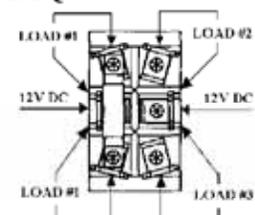
**34-571L** Long Handle Screw Terminals  
**34-592Q** Jumper Blade Style

## WIRING DIAGRAMS

**34-591Q**



**34-593Q**



## ACCESSORIES

The best combination of space-saving size and economy. Universal for Automotive, Light Truck, Off-Road and Recreational vehicles. Furnished with mounting hardware.



**33-300**  
2 Position Toggle Switch, On-Off  
6 Volt-35 Amps 12 Volt-20 Amps  
Brass construction. Screw terminals.  
Toggle and Face Nut CHROME  
PLATED, Mounting Stem 3/8"  
Long, 7/16" diameter



**34-500**  
2 Position Toggle  
Switch, 20 Amps @ 12  
VDC, S.P.S.T. Knurled  
Face Nut Indicator  
Plate, Back Nut and  
Terminal Screws  
assembled.



**25-371**  
1/2 Toggle Boot  
Same as Toggle Boot #25-370 except allows  
Toggle Handle (of any length) to protrude.  
Accommodates all toggle lever diameters  
from .155" - .240" including all Pollak toggles  
except nylon handle series.



**25-370**  
Toggle Boot with 15/32-32 thread. Provides  
protection against salt spray and is resistant to  
weather and ozone. Can be used on toggle  
switches with 15/32" diameter mounting stem.



**34-513**  
2 Position Toggle  
Switch. 10 Amps @  
12V

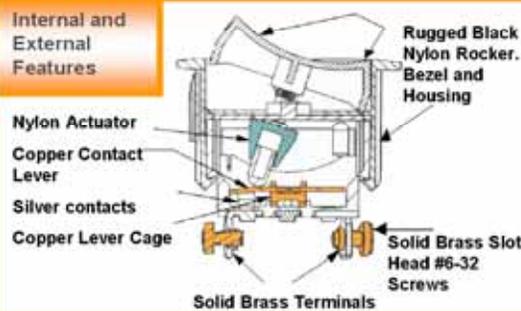


**34-504**  
Face Plate On-Off

See Page 23 For Wiring  
Diagrams, Terms and Tips.

## UNIVERSAL DESIGN ROCKER SWITCHES - 20 AMPS AT 12 VDC

Universal Design for Automotive, Truck, Bus, Marine & Recreational Vehicles. Snap-in mounting fits .830 x 1.450 panel cutout in .093, .125, .187 thick panels. Brass screw or .250 blade terminals. Nylon bezel actuator and housing.



| Part No.   | Circuitry    | No. of Terminals and Type | Actuator | Lens  | Notes                       | Application                  |
|--|--------------|---------------------------|----------|-------|-----------------------------|------------------------------|
| <b>S.P.S.T. ( SINGLE POLE - SINGLE THROW )</b>                     |              |                           |          |       |                             |                              |
| 34-301   | On-Off       | 2 Screw                   | Black    |       |                             | Signaling Switch, Day        |
| 34-308   | On-Off       | 2 Blade                   | Black    |       |                             | Signaling Switch, Day        |
| <b>S.P.S.T. ( SINGLE POLE - SINGLE THROW ) WITH PILOT LIGHT</b>    |              |                           |          |       |                             |                              |
| 34-305   | On-Off       | 3 Screw                   | Black    | Red   | Red Pilot Light             |                              |
| 34-360   | On-Off       | 3 Blade                   | Black    | Red   | Red Pilot Light             |                              |
| 34-306   | On-Off       | 3 Screw                   | Black    | Green | Green Pilot Light           |                              |
| 34-307   | On-Off       | 3 Screw                   | Black    | Amber | Amber Pilot Light           |                              |
| 34-310   | On-Off       | 4 Blade                   | Black    | Red   | Red Pilot Light             |                              |
| <b>D.P.D.T. ( DOUBLE POLE - DOUBLE THROW )</b>                     |              |                           |          |       |                             |                              |
| 34-311   | Off-On-On    | 4 Blade                   | Black    |       |                             | Two Speed Windshield Wiper   |
| 34-359   | On-On        | 6 Blade                   | Black    |       | Reversing                   | Selector Valves, Fans, Booms |
| <b>D.P.D.T. ( DOUBLE POLE - DOUBLE THROW ) WITH DUAL CIRCUITRY</b> |              |                           |          |       |                             |                              |
| 34-312   | High-Low-Off | 6 Blade                   | Black    |       | Dual Actuators High-Low-Off |                              |



See Page 23 For Wiring Diagrams, Terms and Tips.

# SWITCHES

## SEALED ILLUMINATED ROCKER SWITCHES

34-230  
(Shown)



- Designed for complete protection against dust and moisture.
- Rated 20 Amps at 12 VDC.
- Features include black plastic housing, nylon bezel, silver contacts, white lens with LED bulb, and .250" quick connect terminals.
- May be used with Pollak's new single and modular mounting brackets.

|               |                       |               |                               |
|---------------|-----------------------|---------------|-------------------------------|
| <b>34-230</b> | On-Off, S.P.S.T.      | <b>34-236</b> | Mom. On-Off-Mom. On, S.P.D.T. |
| <b>34-231</b> | Mom. On-Off, S.P.S.T. | <b>34-237</b> | On-On, D.P.D.T.               |
| <b>34-232</b> | Off-Off-Off, S.P.S.T. | <b>34-238</b> | On-Off, D.P.S.T.              |
| <b>34-233</b> | On-On, S.P.D.T.       | <b>34-239</b> | Mom. On-Off-Mom. On, D.P.D.T. |
| <b>34-234</b> | On-Off-On, S.P.D.T.   | <b>34-240</b> | Off-On-On, Progressive        |
| <b>34-235</b> | On-On-On, S.P.3.T.    | <b>34-241</b> | On-On-Mom. On, Progressive    |

## ROCKER SWITCHES MOUNTING BRACKETS



- New Modular mounting brackets and single mounting bracket #34-260 (Not shown) for use with installing Pollak's new rocker switches #34-230 Series (Shown above).
- To be used when installing rocker switches in panels.
- Stackable mounting end brackets #34-258 are reversible and can be connected to either side of middle bracket #34-259.
- Single mounting bracket #34-260 may be used for a single switch mount.

|               |                               |
|---------------|-------------------------------|
| <b>34-255</b> | Panel Gasket Seal             |
| <b>34-258</b> | Mounting Bracket End Piece    |
| <b>34-259</b> | Mounting Bracket Middle Piece |
| <b>34-260</b> | Single Mounting Bracket       |

## WEATHER RESISTANT TOGGLE SWITCH

34-571C



- Weather resistant plastic coating with O-Ring in stem.
- 2 Positions: On-Off, S.P.S.T., Rated 20 Amps, 12 VDC
- Knurled face nut, hex back nut, and 2 plastic coated wire leads 8" long.
- Chrome plated bat handle, mounting stem 15/32 diameter., 3/8" long.
- **34-111** Same as 34-571C except with 2 plastic coated wire leads 24" long.

## TOGGLE SWITCH GUARD

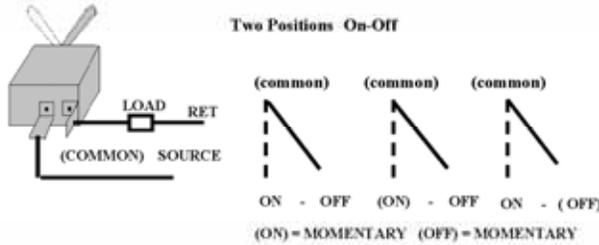
34-508



- Spring loaded snap action holds the guard cover in the up or down position. Switch cannot be operated with the cover in the down position.
- Recommended for use with two position (Off-On or On-On) toggle switches with standard 11/16" bat handle and 15/32" diameter mounting stem and keyway.
- Face plate is steel with black glossy finish. Switch cover coated with red urea.

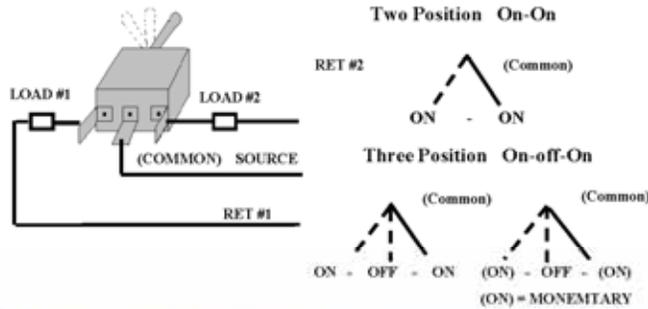
**S.P.S.T. (Single Pole/Single Throw)**

A two terminal switch which opens or closes one circuit.



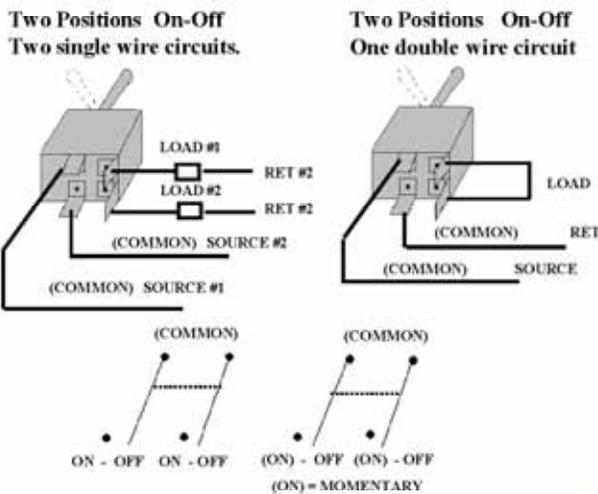
**S.P.D.T. (Single Pole/Double Throw)**

A three terminal switch that controls two single-wire circuits. Permits only one circuit to be energized at a time



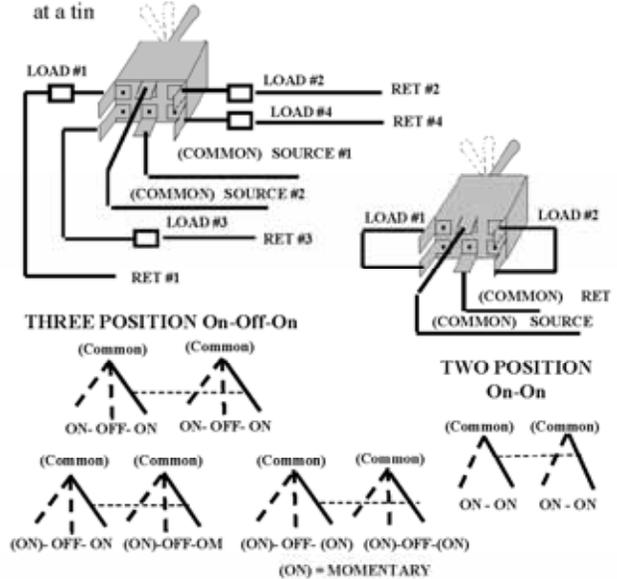
**D.P.S.T. (Double Pole/Single Throw)**

A four terminal switch that controls one double wire circuit or two single wire circuits.



**D.P.D.T. (Double Pole/Double Throw)**

A six terminal switch that controls two double wire circuits permitting only one circuit to be energized at a time, or four single wire circuits permitting only two circuits to be energized at a time



**ELECTRICAL TERMS**

- AMPERE** Electrical unit indicating rate of flow of electricity through a circuit.
- CIRCUIT** Path taken by electrical current flowing through conductor from one terminal source of supply to another.
- CURRENT** The movement of electrons through a conductor measured in amperes.
- DOUBLE POLE** A switch that operates simultaneously in two separate electric circuits.
- DOUBLE THROW** A switch that alternately completes a circuit at either end of its extreme positions.
- DOUBLE POLE/SINGLE THROW D.P.S.T** -A switch that has four terminals and is used to connect or disconnect two pairs of terminals simultaneously.
- DOUBLE POLE DOUBLE/THROW D.P.D.T** A switch that has six terminals and is used to connect one pair of terminals to either of the other two pairs.
- INDUCTIVE LOAD** Initial amps needed to engage a circuit and/or a load which allows a momentary flow of current when a circuit is open. (Devices that create inductive loads are typically motor coils and solenoids.)
- LAMP LOAD** Light bulb current expressed in amps at a rated voltage.
- MOMENTARY** Momentary action is obtained by holding switch in position with pressure. Upon release the switch returns to the previous position.
- REVERSING** Reversing action is obtained by reversing the polarity of a switch with jumper wires or blades to change the rotation of a motor. Typical applications are winches, plows, radio antennas and fuel selector valves.
- SINGLE POLE** A switch that opens, closes, or changes connection in a single conductor of an electrical circuit to a common contact.
- SINGLE THROW** A switch that opens, closes or completes a circuit at only one of the extreme positions of its actuator.
- SINGLE POLE/SINGLE THROW S.P.S.T.** - A two terminal switch which opens or closes one circuit.
- SINGLE POLE/DOUBLE THROW S.P.D.T.** - A three terminal switch for connecting one terminal to either of two other terminals.
- VOLT** The unit that measures the potential difference in electrical force or "pressure" between two points on a circuit.
- WATT** The unit of power that indicates the rate at which a device converts electric current to another form of energy, either heat or motion.

**SERVICE TIP**

- Replacement switch must have the same or higher rating as original switch.
- Unplug circuit or turn off power at electrical panel.
- Remove wires from old switch one-at-a-time and attach to new switch in same manner, or follow wiring diagram.
- For Screw Terminals - Twist stranded wire together. Loop wire clockwise around screw. Tighten securely.
- For Blade Terminals - Use Female push-on terminals. Crimp tightly on stranded wire. Make sure you have a snug fit.
- Turn on power

# SWITCHES - PUSH-PULL



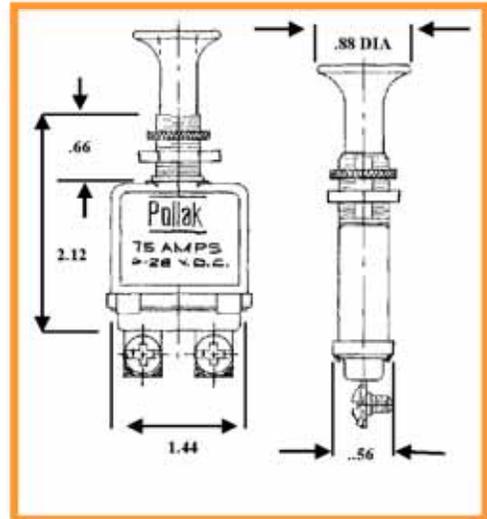
35-331



35-306



35-330



## 35-306

6-28 VOLTS - 75 AMP D.C. 2 POSITION S.P.S.T. OFF-ON Die-Cast Body, CHROME PLATED, Knob, Copper Terminals, Mounting Stem 5/8" long, 15/32" Diameter

## 35-331

Same as 35-306 with Red Metal Knob

## 35-330

Same as 35-306 with Black Metal Knob

## 35-319

Same as 35-306 except the hardware is assembled on the switch.

## 35-316

3 POSITION 12V OFF-ON-ON Combination Rheostat, Panel and Headlight. Push Pull for Headlights, Turn to Dim Panel. With 20 Amp Circuit Breaker, 5 Terminals, Bright Metal Knob, Mounting Stem 3/8" Long, 3/8" diameter.

## 35-300

2 POSITION OFF-ON 25 Amp at 6V 15 Amps at 12V. Mounting Stem 5/8" Long 7/16" diameter. Ivory Plastic Knob.



35-316



35-300



35-320

52-642

Mating Connector

2 Position Off-On (Normally Off) - One Circuit. Rugged Nylon housing and mounting bracket. Bushing .59" long, .59 diameter Silver plated brass terminals mate with Mating Connector #52-642. Panel mount or transmission shaft mount (when used as a single speed axle switch)

## MARINE

### 33-400

3 POSITION OFF-ON-BOTH ON FOR CONTROLLING RUNNING LIGHTS, etc. Large 3/4" diameter. Face Nut of POLISHED CHROME. Brass Back Nut and Washer. CHROME PLATED plastic knob. Mounting Stem 1-1/4" Long 7/16" diameter.



33-400

### 33-402

2 POSITION 25 Amps at 6V 15 Amps at 12V OFF-ON POLISHED CHROME Face Nut and CHROME PLATED plastic knob. Brass Back Nut and Washer. Mounting Stem 1-1/4" Long, 3/8" diameter.



33-402



33-403

### 33-403

3 POSITION OFF-ON-ON Two Separate Circuits. Brass Back Nut and Washer. BRASS CHROME PLATED Knob and Face Nut. Mounting Stem 1-1/4" Long, 3/8" diameter.

# SWITCHES

## MOMENTARY PUSH SWITCHES

FOR TRUCKS, TRACTORS, FARM, MARINE, INDUSTRIAL APPLICATIONS - POPULAR FOR DIESEL STARTING  
Momentary push-button switches function by having an operator push the plunger to make electrical contact. When the actuating force is removed, the plunger returns to the original position, breaking the electrical contact.

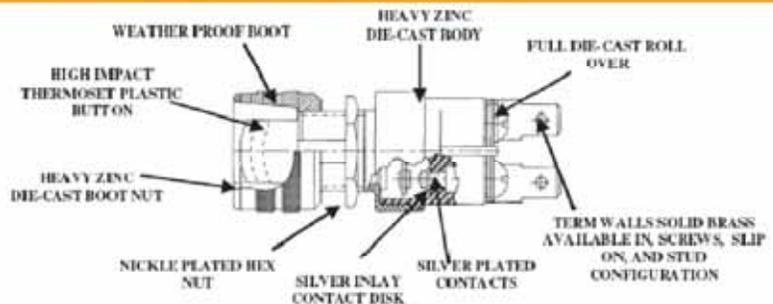
### Momentary Push Switches 2 Positions - Off-On, Normally Off (Push to On)

Zinc Die-Cast Housing, Silver  
Contacts, Brass Terminals.

**Operation:** 50,000 Cycles  
**Mounting stem:** 5/8-32 Thread  
Accommodates panels up to 1/4"  
thick.

#### Contact Rating:

@ 14VDC: Make 70 Amps, Break 20 Amps Inductive Load  
@ 28 VDC: Make 35 Amps, Break 10 Amps Inductive Load



#### 24-359 -

- Silver-plated contacts
- Flush terminal screws in molded insulator
- Housing rolled over insulator to seal out Dust and Moisture
- Hex Back Nut
- Bright Polished Face Nut
- Black Molded Plunger
- Mounting Stem 5/8" Long, 5/8" Diameter Thread
- Overall Length 1-13/16"
- Housing diameter 15/16"

24-359



24-392

24-392 - Same as #24-359 except with brass turret /button terminals. (Mates with Packard Connector #2973407)

24-360 - WEATHER AND DUSTPROOF. Same as #24-359 except with #25-358 Cap and Face Nut, to seal out Weather and Dust.

24-360



24-394



24-394 Same as #24-359 except with black face nut and 3/8" long #8-32 threaded terminals. (Freightliner, Navistar)

24-362 - (Not Shown). Same as #24-359 except with #25-372 Protection Collar.



24-372

24-393 - Same as #24-394 except with #25-358 back rubber boot. (Not Shown)

24-363 - (Not Shown) Same as #24-392 except with #25-358 black rubber boot.

24-395 - Same as #24-393 except with #25-352 red rubber boot.

24-373 - (Not Shown) Same as #24-359 except with 2 Male Blade "quick connect" terminals.

24-372 - SWITCH - Same as #24-359 except with special design features ... Brass, chrome plated protection collar P/N #25-372 prevents accidental start. Combination screw and 1/4 male blade terminal with locking hole will accept Packard #2962447 terminal and #2977253 connector or equivalent. Replaces GM Switch #2067912. Mounting stem 5/8" long, 5/8" diameter, overall length 1 13/16".

24-395



24-391 - (Not Shown). Same as #24-392 except without hex face nut.

24-390 - (Not Shown). Same as #24-359 except for hex nut thickness.

# SWITCHES

## BOOT NUT ASSEMBLIES

**25-358-** WEATHER and DUSTPROOF Neoprene rubber type BOOT NUT ASSEMBLY. With 5/8-32 thread, Can be used on #52-611 and #33-200 and on other Momentary Switches with this Mounting Stem

**25-358**  
Black



**25-351**  
Same as 25-358 except with recessed "horn" symbol.



**25-372**  
Protective Collar - Safety Bezel with 5/8"-32 thread may be used on #24-359, #52-611, #33-200 and on other momentary switches with this mounting stem dimension.

**25-348**  
Yellow



**25-350**  
Same as 25-348 except with recessed "cold start" symbol.



**52-611**  
Universal-Mounting Bushing 3/4" Long, 5/8" diameter. Hex Pal Back Nut knurled Face Nut assembled. 25 AMPS @ 6V, 15 AMPS & 12V. Mounts in 5/8" diameter hole.

**25-352**  
Red



**25-349**  
Same as 25-352 except with recessed "start" symbol.



**52-600**  
REPLACES: 21A11500A, Screw Terminals. 15 AMPS @ 6V, 10 AMPS @ 12V, 15/16" Mounting Hole Required. Mounting Stem 7/8"-20, .45" long. Supplied with 7/8"-20 palnut.

## MOMENTARY SWITCHES

2 Positions: On- Off Normally On (Push to Off)



**21-541**  
Momentary Switch -Normally On (Push to Off). Moisture Proof with two 6" 16 gauge wire leads with Packard Electric Connector #12010973. Mates with Packard #12015792.

**21-560**  
Same as 21-541 except Normally Closed (Push to On). Mates with Packard # 15300027

## SEALED PLUNGER SWITCHES

2 Positions: On- Off Normally On (Push to Off)



**52-624**  
Sealed Plunger Switch #52-620 and Mating Connector #52-622. 10 Amps at 14V. Self tapping thread. Self-Adjusting, Switch length 2 1/8". Mating connector has three 8" 18 gauge wire leads.

## MARINE

15 Amps at 12V



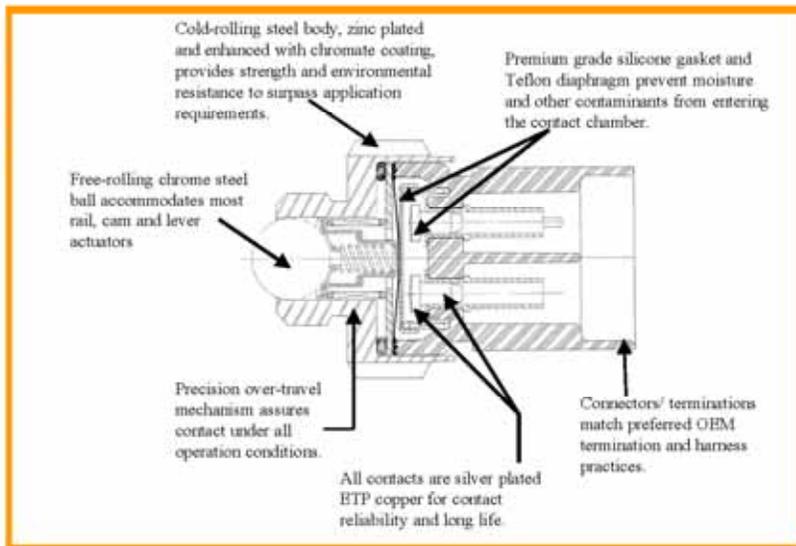
**33-200**  
ALL BRASS, CHROME PLATED Button and Face Nut Furnished. Brass Back Nut and Washer Mounting Stem 1 1/4" Long 5/8" diameter. 25 Amps @ 6V. Fits 1" thick panel.



**52-623**  
Door Jamb Switch to accept two Bullet terminals. 5 Amps at 12V. REPLACES: Ford OA1-13713, BOA-13713, B9MF-13713A, C3AZ-13713A.

# PRECISION BALL SWITCHES

As the leading manufacturer of precision ball-actuated switches, Pollak™ has provided custom switches to meet the requirements of OEM's and aftermarket suppliers. Typical applications include: neutral and top gear sensing, back-up lamp switching, anti-lock brake switching, power take-off interlock and operator presence detecting. The switches shown here represent the transportation industry's most commonly requested configurations. If the switch you need cannot be found on these charts, please contact us for your specific requirements.



## CHARACTERISTICS:

- Normally Open - Exposed Terminals



**21-458**  
Screw Terminals



**21-481**  
Turret Terminals

| Part No. | Thread  | Hex | Free Position             | Make/Break                | Connector Terminals | Mating Connector | Special Features   |
|----------|---------|-----|---------------------------|---------------------------|---------------------|------------------|--------------------|
| 21-361   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .406 / .391 (10.31-09.93) | Stud Terminals      |                  |                    |
| 21-381   | 9/16-18 | 7/8 | .765 / .760 (19.43-19.30) | .730 / .715 (18.54-18.16) | Turret Terminals    |                  |                    |
| 21-458   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Screw Terminals     | Ring Terminals   |                    |
| 21-481   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Turret Terminals    | PE 02973407      |                    |
| 21-487   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Screw Terminals     | Ring Terminals   | 21-458 with O-Ring |
| 21-509   | 3/4-16  | 7/8 | .577 / .551 (14.15-14.00) | .533 / .513 (13.54-13.03) | Screw Terminals     |                  |                    |

## CHARACTERISTICS:

- Normally Closed - Exposed Terminals



**21-456**  
.250 Blade Terminals



**21-517**  
.250 Blade Terminals



| Part No. | Thread  | Hex | Free Position             | Make/Break                | Connector Terminals | Mating Connector      | Special Features                 |
|----------|---------|-----|---------------------------|---------------------------|---------------------|-----------------------|----------------------------------|
| 21-434   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Turret              | PE 02973407           |                                  |
| 21-435   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Screw               | Ring Terminals        |                                  |
| 21-437   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Screw               | Ring Terminals        | Plating                          |
| 21-448   | 3/4-16  | 7/8 | .606 / .601 (15.39-15.27) | .600 / .384 (15.24-14.86) | Screw               | Ring Terminals        | Aluminum Washer resist Corrosion |
| 21-456   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | .250 Blade          | Rect. Receptacle Term |                                  |
| 21-517   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | .250 Blade          | Rect. Receptacle Term | 21-456 With O-ring               |

**CHARACTERISTICS:**

\* Normally Open - Sealed Terminals

**21-370**

| Part No. | Thread  | Hex | Free Position             | Make/Break                | Connector            | Mating Connector | Special Features           |
|----------|---------|-----|---------------------------|---------------------------|----------------------|------------------|----------------------------|
| 21-363   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .406 / .391 (10.31-09.93) | Packard 56 Series    | 029S4092         |                            |
| 21-364   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Ford Automotive Type | C0AF-14A121-A    |                            |
| 21-370   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .406 / .391 (10.31-09.93) | Packard Weather Pack | 12015792         |                            |
| 21-400   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Ford Automotive Type | E2EB-14A464-AB   |                            |
| 21-443   | M14*1.5 | M22 | .460 / .450 (11.68-11.43) | .435 / .415 (11.05-10.54) | Ford Automotive Type | D6ZB-14A336-BA   | Teflon Tape Thread Sealant |
| 21-465   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .406 / .391 (10.31-09.93) | Packard Metri-Pack   | 12052644         |                            |
| 21-491   | 5/8-18  | 7/8 | .433 / .417 (11.00-10.59) | .405 / .380 (10.29-09.65) | Packard Weather Pack | 12103784         |                            |
| 21-492   | M14*1.5 | M22 | .577 / .567 (14.66-14.40) | .561 / .543 (14.25-13.79) | Packard Metri-Pack   | 12052644         |                            |
| 21-532   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .406 / .391 (10.31-09.93) | Packard Weather Pack | 12015792         | Teflon Tape Thread Sealant |
| 21-595   | M16*1.5 | 7/8 | .980 / .970 (24.89-24.64) | .960 / .945 (24.38-24.00) | Packard Weather pack | 12015792         | Teflon Tape Thread Sealant |

**CHARACTERISTICS:**

\* Normally Closed - Sealed Terminals

| Part No. | Thread  | Hex | Free Position             | Make/Break                | Connector            | Mating Connector | Special Features      |
|----------|---------|-----|---------------------------|---------------------------|----------------------|------------------|-----------------------|
| 21-444   | 5/8-18  | 7/8 | .433 / .417 (11.00-10.59) | .405 / .380 (10.29-09.65) | Packard Weather Pack | 12103784         |                       |
| 21-495   | 9/16-18 | 7/8 | .657 / .652 (16.69-16.56) | .644 / .625 (16.36-15.88) | Packard Weather Pack | 12015792         | Assembled with O-Ring |
| 21-538   | M16*1.5 | M22 | .609 / .598 (15.47-15.19) | .594 / .579 (15.09-14.71) | Packard Weather Pack | 12103784         |                       |

**CHARACTERISTICS:**

\* Normally Open - Encapsulated with Wire Leads

| Part No. | Thread  | Hex | Free Position             | Make/Break                | Connector          | Mating Connector | Special Features |
|----------|---------|-----|---------------------------|---------------------------|--------------------|------------------|------------------|
| 21-467   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Packard Metri-Pack | 15300027         |                  |
| 21-493   | M14*1.5 | M22 | .577 / .567 (14.66-14.40) | .561 / .543 (14.25-13.70) | Packard Metri-Pack | 12052644         |                  |
| 21-562   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .406 / .391 (10.31-09.93) | Packard Metri-Pack | 15300027         |                  |

**CHARACTERISTICS:**

\* Normally Closed - Encapsulated with Wire Leads

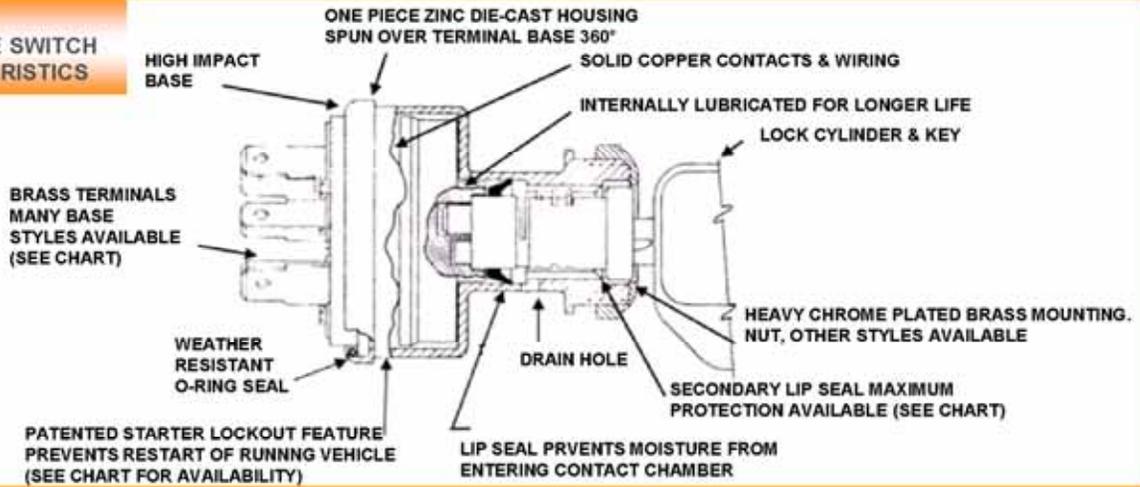
**21-478**

| Part No. | Thread  | Hex | Free Position             | Make/Break                | Connector            | Mating Connector | Special Features      |
|----------|---------|-----|---------------------------|---------------------------|----------------------|------------------|-----------------------|
| 21-478   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Packard Weather Pack | 12010973         |                       |
| 21-482   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Packard Weather Pack | 12010973         | Assembled with O-Ring |
| 21-547   | 9/16-18 | 7/8 | .421 / .416 (10.69-10.57) | .408 / .390 (10.36-09.93) | Packard Metri-Pack   | 15300002         | Assembled with O-Ring |

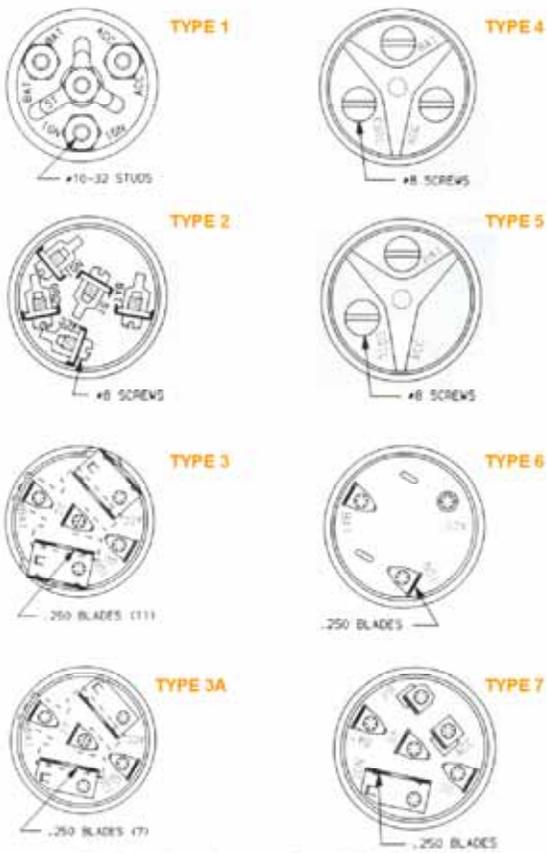
# IGNITION STARTER SWITCHES

## Momentary Start Universal Type Die-Cast Housing

### COMMON AVAILABLE SWITCH CHARACTERISTICS



### BASE TYPES & CONNECTIONS



*For Specific Applications Consult Factory*

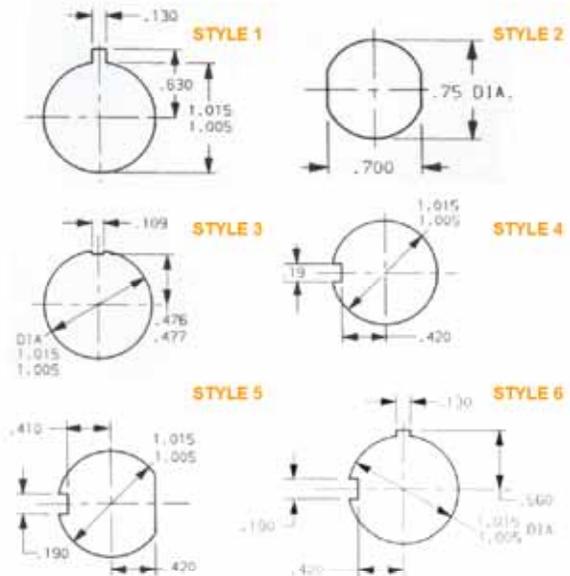
### Typical Ratings @ 14 Volts DC (50,000 Cycles)

| Ignition Terminal | Accessory Terminal  | Start Terminal                |
|-------------------|---------------------|-------------------------------|
| 8 Amps            | 30 Amps (Inductive) | 75 Amps make<br>20 Amps Break |

Continuous Current Carrying Capacity – 30 Amps @ 14V.  
Accessory Terminal with #10 Gauge Wire.

*For Specific Applications Consult Factory*

### MOUNTING HOLE PATTERNS

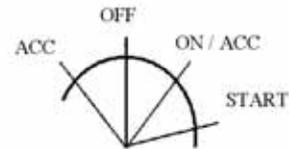


Base Types (3, 3A & 7) fit Packard Connector #2984017

## 4-POSITION SWITCHES

### FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only



(SPRING RETURN TO ON)



31-610



31-180



31-242

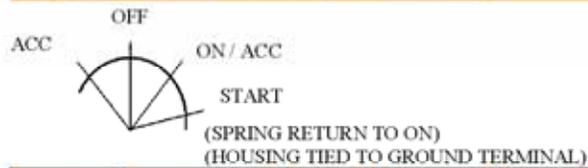
| Base Type | Part No.   | Starter Lockout | Key Logo  | Key code  | # of Lip Seals | M/H/P | Remarks                           |
|-----------|------------|-----------------|-----------|-----------|----------------|-------|-----------------------------------|
| 1         | 31-103     | N               | Pollak    | Various   | 0              | 2     |                                   |
| 1         | 31-104     | N               | Pollak    | PK556     | 0              | 2     |                                   |
| 1         | 31-105     | Y               | Pollak    | Various   | 0              | 2     |                                   |
| 1         | 31-106     | Y               | Pollak    | PK556     | 0              | 2     |                                   |
| 1         | 31-109     | N               |           | No L/Cyl  | 0              | 1     | No Base Hardware Supplied         |
| 1         | 31-110     | N               | Pollak    | Various   | 0              | 1     | No Base Hardware Supplied         |
| 1         | 31-111     | N               |           | No L/Cyl  | 0              | 1     | No Base Hardware Supplied         |
| 1         | 31-131     | N               | Pollak    | Various   | 0              | 1     | Spc. Hardware Clips               |
| 1         | 31-159     | N               | None      | Special   | 1              | 3     | Key Code 31-159-100               |
| 1         | 31-178     | N               | L/Cyl Mfg | D250      | 2              | 5     |                                   |
| 1         | 31-180     | N               | L/Cyl Mfg | Various   | 2              | 5     | "O" Sealed Base                   |
| 1         | 31-190     | N               | No Key    | Universal | 1              | 4     | No Base Hardware or Keys Supplied |
| 1         | 31-196     | N               | Pollak    | Universal | 1              | 4     |                                   |
| 1         | 31-233     | Y               |           | No L/Cyl  | 0              | 2     |                                   |
| 1         | 31-292     | Y               | Pollak    | Various   | 0              | 2     | Black Mounting Nut                |
| 1         | 31-292-801 | Y               | Pollak    | C801      | 0              | 2     | Black Mounting Nut                |
| 1         | 31-292-802 | Y               | Pollak    | C802      | 0              | 2     | Black Mounting Nut                |
| 1         | 31-292-803 | Y               | Pollak    | C803      | 0              | 2     | Black Mounting Nut                |
| 1         | 31-292-804 | Y               | Pollak    | C804      | 0              | 2     | Black Mounting Nut                |
| 1         | 31-292-805 | Y               | Pollak    | C805      | 0              | 2     | Black Mounting Nut                |
| 1         | 31-292-806 | Y               | Pollak    | C806      | 0              | 2     | Black Mounting Nut                |
| 1         | 31-305     | Y               | L/Cyl Mfg | D250      | 2              | 5     |                                   |
| 1         | 31-607     | N               | Lever     |           | 0              | 2     |                                   |
| 1         | 31-608     | Y               | Lever     |           | 0              | 1     |                                   |
| 1         | 31-610     | Y               | Pollak    | Universal | 1              | 4     |                                   |
| 2         | 31-124     | N               |           | No L/Cyl  | 0              | 3     | Spc. Hardware Clips               |
| 3         | 31-228     | N               | Pollak    | Universal |                |       | Terminal Ground ID Tag            |
| 2         | 31-242     | Y               | Pollak    | Universal | 1              | 4     | Spc. Hardware Clips               |
| 3         | 31-132     | N               | L/Cyl Mfg | Various   | 0              | Spc.  | Bezel Mfg.                        |

M/H/P = Mounting Hole Pattern

## 4-POSITION SWITCHES

### FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only



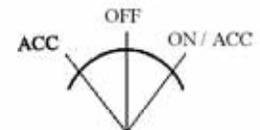
| Base Type | Part No. | Starter Lockout | Key Logo  | Key code | # of Lip Seals | M/H/P | Remarks   |
|-----------|----------|-----------------|-----------|----------|----------------|-------|---|
| 1         | 31-527   |                 | Pollak    | D250     | 2              | *     | Spring return aux. / glow plug warmer <b>New</b>      |
| 2         | 31-112   | N               | Pollak    | PK556    | 0              | 2     | Special Hardware Clips                                |
| 2         | 31-257   | Y               | L/Cyl Mfg | D250     | 1              | 5     | O-Ring Sealed Base, Spe. Hdw Clip                     |
| 3         | 31-114   | N               | Pollak    | Various  | 0              | 1     | Caution Tag on GND Term                               |
| 3         | 31-152   | N               |           | No L/Cyl | 0              | 1     | Caution Tag on GND Term                               |
| 3         | 31-229   | N               | L/Cyl Mfg | D250     | 2              | 5     |   |
| 3         | 31-243   | Y               | Lever     |          | 1              | 5     |   |
| 3         | 31-249   | N               | Pollak    | PK556    | 0              | 1     | Caution Tag on GND Term                               |
| 3         | 31-289   | N               |           | No L/Cyl | 0              | 1     | Caution Tag on GND Term                               |
| 3A        | 31-290   | Y               | L/Cyl Mfg | D250     | 1              | 5     | O-Ring Sealed Base                                    |
| 3A        | 31-322   | Y               | Encap key | D250     | 1              | 5     | No Logo on Encap keys                                 |
| 3A        | 31-324   | Y               | L/Cyl Mfg | D250     | 1              | 5     | Black Mounting Nut                                    |
| 3         | 31-498   | N               | None      | Various  | 0              | 3     | Supplied with high durability double cut L/Cyl & keys |
| 3A        | 31-139   | N               | L/Cyl Mfg | Various  | 0              | Spe.  | Bezel Mfg   |
| 3A        | 31-191   | Y               | L/Cyl Mfg | Various  | 1              | 5     | O-Ring Sealed Base                                    |
| 3A        | 31-231   | Y               | L/Cyl Mfg | D250     | 1              | 5     | O-Ring Sealed Base                                    |
| 3A        | 31-273   | N               | L/Cyl Mfg | Various  | 2              | 5     | O-Ring Sealed Base                                    |
| 3A        | 31-280   | N               | None      | Various  | 1              | 5     | O-Ring Sealed Base, Mfg Nut Sold Separately           |
| 3         | 31-359   | N               | None      | Various  | 0              | 3     |   |

\* - Mounting hole pattern similar to MHP style 5 without key way.

## 3-POSITION SWITCHES

### FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only



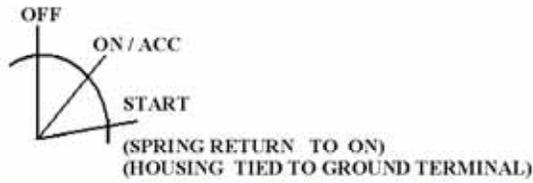
| Base Type | Part No. | Starter Lockout | Key Logo  | Key code | # of Lip Seals | M/H/P  | Remarks                                       |
|-----------|----------|-----------------|-----------|----------|----------------|--------|---|
| 1         | 31-119   | N               |           | No L/Cyl | 0              | 1      | Extra Long Studs in all Positions             |
| 1         | 31-122   | N               | Pollak    | C805     | 0              | 1      | No Base Hardware Supplied                     |
| 1         | 31-192   | N               |           | No L/Cyl | 0              | 1      | No Base Hardware Supplied                     |
| 1         | 31-245   | N               | L/Cyl Mfg | D250     | 2              | 5      | No Base Hardware Supplied, O-Ring Sealed Base |
| 3         | 31-164   | N               |           | No L/Cyl | 0              | 3      | Mtg. Nuts Sold Separately                     |
| 4         | 31-600   | N               | Pollak    | Various  | 0              | .75" D |   |
| 7         | 31-223   | Y               | Lever     |          | 0              | 5      |   |
| 4         | 31-601   | N               | Pollak    | PK556    | 0              | .75" D |   |

Base Types (3, 3a & 7) fit Packard Connector #2984017

### 3 POSITION SWITCHES

#### FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only



| Base Type | Part No. | Starter Lockout | Key Logo  | Key code  | # of Lip Seals | M/H/P | Remarks                                |
|-----------|----------|-----------------|-----------|-----------|----------------|-------|--|
| 2         | 31-267   | Y               | L/CYL Mfg | D250      | 1              | 5     | Black Mounting Nut, O-Ring Sealed Base |
| 2         | 31-302   | Y               | Pollak    | Universal | 1              | 5     |  |
| 2         | 31-345   | N               | Pollak    | Universal | 1              | 4     |  |
| 3A        | 31-285   | N               | L/CYL Mfg | D250      | 2              | 5     | O-Ring Sealed Base                     |
| 3A        | 31-297   | Y               | Pollak    | Universal | 1              | 4     |  |

Base Types (3, 3A & 7) fit Packard Connector #2984017

M/H/P = Mounting Hole Pattern

### 3 POSITION SWITCHES

#### FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only



| Base Type | Part No. | Starter Lockout | Key Logo  | Key code | # of Lip Seals | M/H/P | Remarks            |
|-----------|----------|-----------------|-----------|----------|----------------|-------|--------------------|
| 1         | 31-253   | N               | Lever     | D250     | 1              | 5     | O-Ring Sealed Base |
| 1         | 31-609   | N               | Blank     | Various  | 0              | 2     |                    |
| 3         | 31-309   | Y               | L/CYL Mfg | D250     | 1              | 5     |                    |
| 3         | 31-337   | Y               | Pollak    | D250     | 1              | 5     |                    |

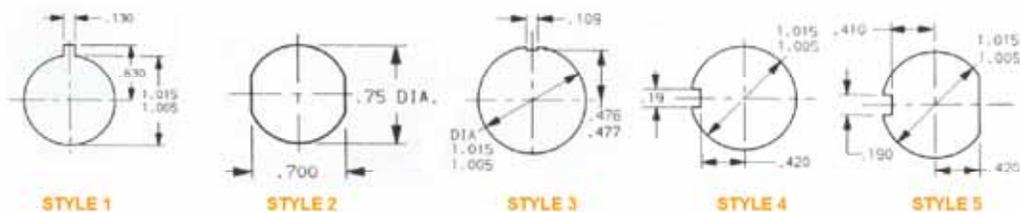
Base Types (3, 3A & 7) fit Packard Connector #2984017

M/H/P = Mounting Hole Pattern

#### BASE TYPES



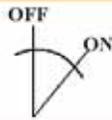
#### MOUNTING HOLE PATTERNS



## 2-POSITION SWITCHES

### FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only



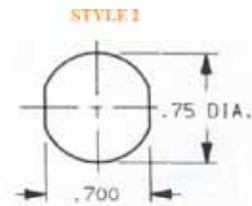
| Base Type | Part No. | Starter Lockout | Key Logo | Key code | # of Lip Seals | M/H/P | Remarks |
|-----------|----------|-----------------|----------|----------|----------------|-------|---------|
| 5         | 31-288   | N               | Pollak   | PK580    | 0              | 2     |         |
| 5         | 31-602   | N               | None     | Various  | 0              | .75"D |         |
| 5         | 31-603   | N               | Pollak   | PK556    | 0              | .75"D |         |
| 5         | 31-604   | N               | Lever    |          | 0              | .75"D |         |
| 6         | 31-117   | N               |          | No L/Cyl | 0              | 2     |         |
| 6         | 31-282S  | N               | Pollak   | PK556    | 0              | 2     |         |

M/H/P = Mounting Hole Pattern

### BASE TYPES



### MOUNTING HOLE PATTERNS

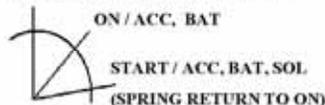


## MARINE STARTER SWITCHES - (for Magneto applications)

Magneto grounded in "Off" Position. Glass filled Delrin Housing, Stainless Steel Terminals. Molded Velox Base. 13/16" Diameter Mounting Bushing. Special weather proofing seal and drain hole. Furnished with Terminal Hardware, Mounting Nuts and Two Keys.

| RATING @ 12 VDC                |
|--------------------------------|
| M-M Grounded-10 Amps Inductive |
| B-A 5 Amp                      |
| B-S 10 Amp                     |
| B-C 1 Amp (33-105 Only)        |

OFF (MAGNETO GROUNDED)



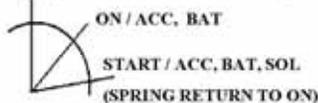
### 33-104

Special long bushing allows mounting in panels up to 1 1/4" thick. Replaces - Johnson-Evinrude Numbers 386496, 379047, 378238. 33-150-100 Blank key for 33-104 and 33-150

### 33-107

Same as 33-104 except all switches keyed alike. (Key #:33-150-101-31)

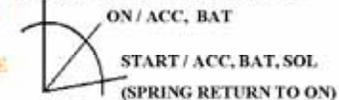
OFF (MAGNETO GROUNDED)



### 33-105

Special "Push to Choke" feature eliminates need for separate Electronic Choke Switch. Switch mounts in panels up to 1/4" thick. Replaces - Johnson-Evinrude Numbers 388173, 390129, 390133.

OFF (MAGNETO GROUNDED)

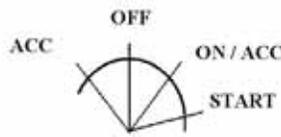


### 33-150

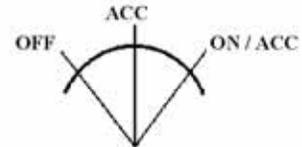
Delrin, Stainless Steel, 6 terminals, special weather-proofing seal and drain holes. Furnished with face nut and brass screws. Various key changes for security. Mounting bushing 1 1/4" thick. Length = 1/2" long. Switch mounts in panels up to 1/4" thick Replaces Johnson-Evinrude numbers 386496, 379047 and 378238.

# IGNITION STARTER SWITCHES

## (Special Applications)



**31-527**  
**SPECIAL 4 POSITION IGNITION SWITCH**  
 Specially designed with glow plug  
 'warm' position.



Keyless Operation  
 Off-Acc Key Removable in  
 Off, Acc Only

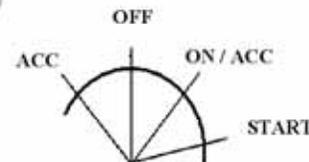


**31-132**  
 Lock tumbler & keys assembled  
 REPLACES: Jeep 931697

**31-499**  
**SPECIAL (HI POWER) IGNITION SWITCH**  
 Ratings at 14VDC  
 Ign - 15 Amps (8 Amps, standard)  
 Acc - 40 Amps Continuous  
 (30 Amps Standard)  
 Start - 75 Amp Make, 20 Amp Break  
 (Standard)



**31-499**



**Unique Features**

- Silver Plated Contacts
- Silver Plated Wiper Heat Dissipating Contact Connections
- Enhanced features available in Standard Envelope.

### REPLACEMENT KEYS



**31-332**



**31-166-001**



**31-600-103**



**31-339**



**31-159-001**

**D-250 Series**

**19564**, Coined, 2 keys per ring. Replacement key for 31-178, 31-229, 31-231, 31-245, 31-257, 31-267, 31-285, 31-290, 31-305, 31-309, 31-322, 31-324, 31-337

**Universal key Series**

**31-166-001**, Coined, 2 keys per ring (Pollak Logo & Lightening Bolt)  
**31-332**, Encapsulated, (Pollak Logo), 2 keys per ring  
**31-339**, Encapsulated, (No Logo), 2 keys per ring  
 Replacement keys for 31-190, 31-610, 64-242, 31-175, 31-302, 31-345, 31-297

(Unless otherwise noted, all keys sold individually. )

**PK Series**

**31-600-103** (PK556), Coined, 2 keys per ring (Pollak Logo) Replacement keys for 31-104, 31-106, 31-112, 31-249, 31-282S, 31-603

**31-173-104**, blank key, Coined,  
 Blank replacement keys for 31-132, 31-139, 31-180, 31-191, 31-272, 31-280

**31-159-001**  
 Replacement keys (2 per ring) for part No. 31-159

**33-150-100**  
 Blank replacement key for Part No. 33-104, 33-150

**33-237-100**  
 Blank replacement key for Part No. 33-105

# SWITCHES

## BATTERY MASTER DISCONNECT SWITCHES

Master disconnect switches designed for 12 VDC vehicles (Truck, Automotive, Marine, RV) to disconnect all circuitry to reduce possibility of theft or accidental electrical fires. Available in keyed or lever versions, with or without indexing pins, and various sizes of terminal studs.

### 51-902 (Replaces the 51-302) LEVER OPERATED 6-36 VDC 180 AMPS CONTINUOUS CAPACITY 1000 AMPS IN RUSH S.P.S.T. (OFF-ON) TWO STUD TERMINALS

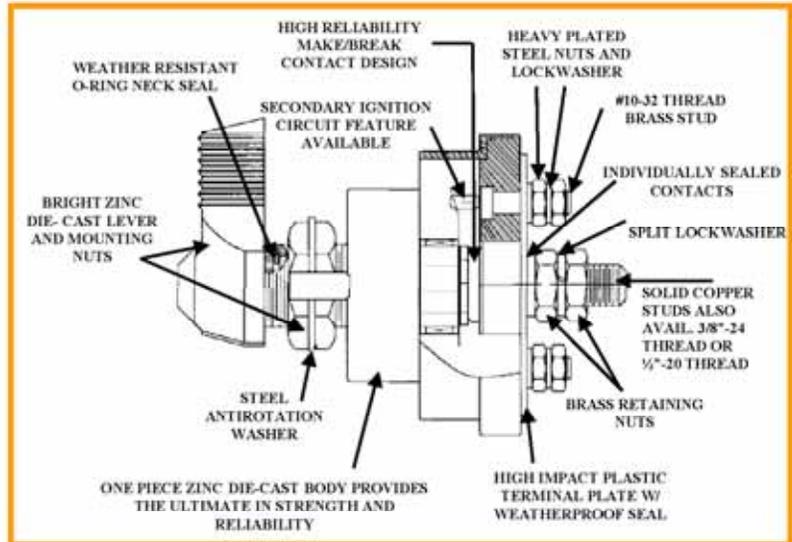
For battery circuit only. Does not disconnect alternator or generator field circuit. On vehicles equipped with alternators/engine must be shut off to avoid potential damage to alternator diodes. (See 51-904)

- Individually Sealed Contacts
  - One piece die-cast housing sealed with O-rings at base and mounting stem to keep out dust and moisture.
  - Large die-cast, lever for ease of operation.
  - Two 3/8" copper alloy stud terminals with hex nuts and lock washers.
  - Overall length 4 3/8". Diameter 2 5/8" approx.
  - Conforms to requirements of U.L. #558
  - Mounting stem 3/4" diameter, 1/2" long, with two hex nuts and lock washer.
- (Note: Mounting nuts not to exceed 12 ft. lbs. torque).
- Designed for protection against battery drain, electrical fires, tampering and theft.
  - Fits panels up to 1/4" thick.

### 51-927 (Replaces the 51-307) MASTER DISCONNECT SWITCH.

Continuous Rating (Make Break) = 180 AMPS @ 12VDC Intermittent Rating (Carrying Current Only) = 1800 AMPS @ 12VDC. 1 cycle = 4 seconds ON/20 Minutes OFF, Silver Plated 1/2" - 20UNF Copper Studs. Recommended wire size #00-gauge or larger for 1800 AMP application.

OUR NEW ENCAPSULATED "REMOVABLE KEY" VERSION OFFERS THE ULTIMATE IN SECURITY AND EASE OF OPERATION (Anti-Rotation Pin Version, also available)



51-902

### 51-915 (Replaces the 51-315)

Same as 51-902 except with .25 anti-rotation indexing post.

### 51-916 (Replaces the 51-316)

Same as 51-915 except with two encapsulated removable keys.



51-915



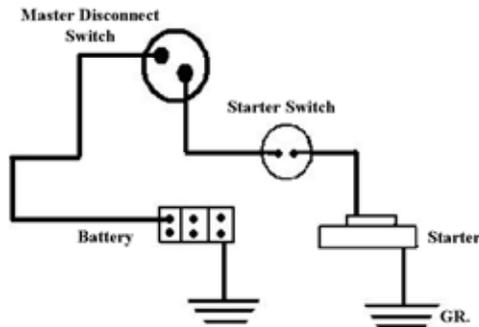
51-927



51-916

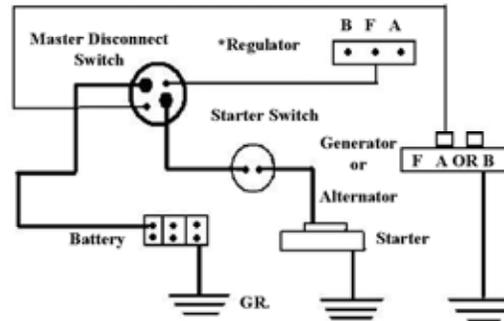
**WIRING DIAGRAM FOR S.P.S.T. MASTER DISCONNECT SWITCH**

Part Numbers: 51-302, 51-315, 51-316, 51-307



**WIRING DIAGRAM FOR D.P.S.T. MASTER DISCONNECT SWITCHES. FOR USE WITH ALTERNATOR OR GENERATOR SYSTEMS**

Part Numbers: 51-304, 51-318, 51-319



**NOTE:** Hex nuts against base Must remain stationary and Must not be tightened or loosened. Secure power cables to mounting surface no greater than 10" from switch mounting

**ACCESSORIES**

**51-904 (Replaces the 51-304)**  
**LEVER OPERATED - 6-36 VOLT**  
**D.P.S.T. (OFF-ON FOUR STUD TERMINALS)**  
 For battery and alternator or generator field circuit. Designed to break alternator generator circuit prior to battery circuit disconnect.



51-904

- Incorporated silver plated contacts.
- One piece die-cast housing sealed with O-rings at base and mounting stem to keep out dust and moisture.
- Two 3/8" and two #10-32 copper alloy stud terminals with hex nuts and lock washer.
- Overall length 4 1/8". Diameter 2 5/8" approx.
- Fits panels up to 1/4" thick.  
 (Note: Mounting nuts not to exceed 12 ft. lbs. torque).

**RATING:**

Continuous Rating (Make Break)  
 Large Studs – 180 Amps  
 Small Studs – 20 Amps  
 Intermittent Rating (Carrying)  
 Large Studs – 1000 Amps (20 sec. "On"  
 -5 Minutes "Off")

**51-918 (Replaces the 51-318)**  
 Same as 51-904 except with .25" diameter anti-rotation indexing post.



51-918



51-919

**51-919 (Replaces the 51-319)**  
 Same as 51-918 except with two encapsulated keys.

**51-303**  
**FACE PLATE** - For use with #'s 51-902, 51-905, 51-904, 51-907 Master Disconnect Switches. Polished aluminum with black letters. 2.5" diameter, .76 diameter center hole, .032 thick.



**51-322**  
**FACE PLATE** - For use with #'s 51-915, 51-916, 51-917, 51-918, Master Disconnect Switches. Polished aluminum with black letters. 2.5" diameter, .76" diameter post, .032" thick.



**51-308 KIT**  
 Replacement Zinc Die-Cast lever and Zinc Plated set crew for Pollak™ Master Disconnect Switches.

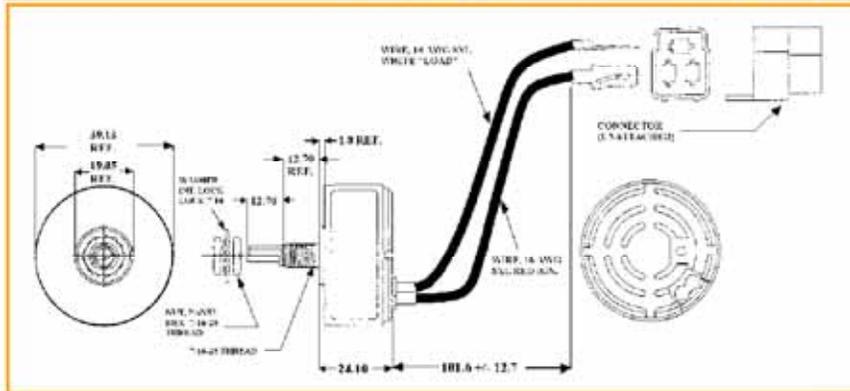


**51-332**  
 Encapsulated Keys with Pollak™ logo. Fits #'s 51-916 & 51-919 Disconnect Switches.



# SWITCHES

## ELECTRONIC DIMMER CONTROLS



| Part No. | Max Current Load | Connector Type               | Panel Mount     | Manufacturer Application               |
|----------|------------------|------------------------------|-----------------|--|
| 52-262   | 10 Amp           | Packard Metri-pack #12034344 | 7/16"-28 Thread | Mack/Volvo/Gm*                         |
| 52-263   | 10 Amp           | Packard 56 Series            | 3/8"-32 Thread  | Freightliner**,Peterbilt**, Kenworth** |

\* Note: Does not apply to all Volvo/GM models. Check with Manufacturer.

\*\* Installation sheet included for connecting terminals to connector.

If you can't afford the down time to have your lights go out contact your nearest Pollak™ distributor today.  
 NOTE: If Panel Lamp Dimmer is hooked up backward, the unit will not work. This will not damage the unit but it is important to insert terminals correctly

### PRODUCT DESCRIPTION

The Electronic Panel Lamp Dimmer Control is a cost effective reliable method of safely controlling the intensity of dash board lighting in the cab of vehicles. Pollak™ Panel Lamp Dimmer controls have been specified by Mack Trucks, Freightliner, Peterbilt and Kenworth. These manufacturers know that electronic reliability keeps trucks on the road and out of the shop. An electronic Panel Lamp Dimmer eliminates the old fashion rheostat type control. Sophisticated electronic pulse width control circuitry and power MOSFET technology used in the panel lamp dimmer's design eliminates the heat build up found with traditional rheostats. Pollak's two wire design allows the Pollak™ controls to be a drop in replacement for existing rheo-stat applications, (see chart for appropriate part number). State of the art surface mount electronic design reduces the housing size and weight while eliminating expensive product failure caused by vehicle vibration. This Pollak™ Panel Lamp Dimmer is designed in accordance with stringent SAE J1455 recommendations. Load dump and transient conditions will not adversely affect the dimmer's operation and it is completely protected from continuous short circuit overload. As dash panels become more complicated the strain on the panel dimmer is increased. The truck O.E.M.'s know this and have converted to electronic dimmers.

### PRODUCT FEATURES

- Universal Application Design
- Simple Two Wire Design Replaces Old Three Wire Style
- Ground Connector Not Needed - Works on positive or negative vehicle systems
- Small Housing Easily fits most dashboards
- Light weight
- Smooth gradual dimming control
- Reliability of electronic components
  - Switch generates very low heat
  - Rugged vibration resistant design
- Operating temperature: -40C to + 85C
- Zinc die-cast housing
- Works on both 12 VDC & 24 VDC systems
- Wire strain relief
- Black plastic knob, white indicator arrow
- Power MOSFET Transistor design
- Meets SAE J1455
  - Fully short circuit protected
  - 150V load dump protected
  - 700V transient spike protected
  - Reverse Polarity protected
- Nominal 205° shaft rotation

# SOLENOID SWITCHES

AUTOMOTIVE, TRUCK, FARM TRACTOR, INDUSTRIAL, CONSTRUCTION, OFF-THE-ROAD, RECREATIONAL VEHICLE APPLICATIONS

TYPICAL APPLICATIONS INCLUDE: SNOW PLOWS, TRUCK WINCH, LIFT TRUCKS, LOW VOLTAGE EQUIPMENT.

- 6-24 VDC Systems
- Plated Steel or Phenolic Housings
- Ignition & Ground Terminals, # 10-32 thread
- Contact Terminals 5/16"-24 Thread
- Bracket Mounting Holes; 5/16" x 19/32"
- 2 1/8" on Center

## INTERMITTENT DUTY

(6-12VDC, 750Amps Make, 100 Amps Break)  
"S.P.S.T." Normally Open Contacts - Off - On

### 52-304

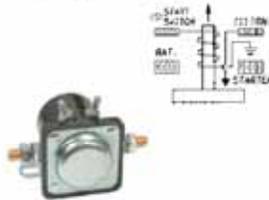
12-V Insulated Base, Flat Bracket, Extra Hardware Assembled - 85Amps. REPLACES: Any 12-V application internally connected; one end of operating coil to battery terminal; the other end to small terminal; also Ford 598-11450, Delco 1497, Prestolite 5-77 and 8-38.



52-304

### 52-305

UNIVERSAL - 12-V Applications - Grounded Base, Flat Bracket, Internally grounded to housing, other end connected to small terminal. REPLACES: B6A-11450A, FDR-11450A, 2701966.



52-305

## CONTINUOUS DUTY

(6-24VDC, 85Amps Continuous, 150Amps In Rush) "S.P.S.T." Normally Open Contacts - Off - On)

### 52-307

12-V Continuous Duty Solenoid Insulated, with hardware. Flat Bracket. REPLACES: Delco 1114218, 223; Prestolite 15-132, 133, 236, 311, SAS-4201, 4202, 4213, 5203



52-307

### 52-312

Same as 53-307 except grounded with three terminals. Replaces Prestolite #'s 15-139, SAS 4208.



52-315

52-315 (Dust & Moisture Resistant) Same as 52-307 except coated with protective grey plastic coating.

52-324 (24 VOLT) 24 Volt, continuous duty. 85 Amps, Insulated. Replaces Prestolite #'s 15-141, 196, 310 SAS-4401, 4408, 5401

## DIMMER SWITCHES

2 POSITIONS - ON Low Beam) ON (High Beam) S.P.D.T.



### 52-250

UNIVERSAL - Mounts through floorboard. Three 1/4" - 20 tapped holes, 3/4" and 1-3/4" on center, With 3 Flat Screw Terminals and 4 Bullet Terminals supplied in separate hardware kit. 3 Screw Terminals. REPLACES: Delco Remy 3 - screw type terminals, Ford solder type terminals and Autolite 4 plug type terminals.



### 52-252

Floor Mounted Type. Mounting holes 1-5/8" on center, 7/32" diameter., 3 Special Terminals, REPLACES: Ford COTF-13A024A, COTZ-13A024A.



### 52-253

Special Floor Mounted Type. Mounting holes 1-6/8" on center, 9/32" diameter., 3 Special Terminals for Plug Connection. REPLACES: Delco-Remy 1997028, 1997031, 1997033, 1997036, 1997037, 3841892; GM 538446, 539288, 578005.

## DOOR SWITCHES

**52-620 (SEALED)** Door Jamb Switch for most Ford and Chrysler products, 14V at 10 Amps Lamp Load Overall length 2-1/8", Plunger travel 3/16", Self-tapping thread. Self-Adjusting.

**52-622 Mating Connector** for 52-620 Switch. Three 8" 18 gauge wire leads.

**52-624 (KIT)**  
52-620 Switch and 52-622 Mating Connector.

**52-616**  
UNIVERSAL, 5 Amps @ 12V, Screw Terminals "ON" when plunger is out. Dual Mounting Hole 1-3/8", 2-1/16" on center. REPLACES: Chrysler 882943, KF-204229,

**52-623**  
Door Jamb Switch to accept two Bullet Terminals. Weather Resistant plastic plunger and body. Accepts two bullet terminals. Fits panels .030" - .070" thick. Mounting hole .850 diameter. max., 5 Amps @ 12V. REPLACES: Ford OA1-13713, BOA-13713, B9MT-13713A, C3AZ-13713A.



**52-633**  
52-620 with mounting hardware.

**52-625** – Shell for 52-622  
**52-626** – Boot for 52-622  
**52-627** – Pin for 52-622



**52-616**

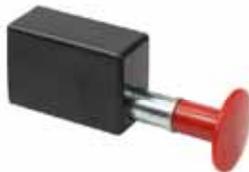


**52-623**

### AXLE SWITCH



**52-260**  
TWO SPEED AXLE SHIFT LIMIT SWITCH. For use in controlling the Eaton two speed electric axle. Phenolic insulator base with O-Rings on studs. Used with Pollak™ #52-261 Axle Switch.



**52-261**  
2 Position Both On controls. High and Low Axle Ranges. Die-cast body protected with rubber cover. Three Female Terminals to receive Bullet Terminals. For use in controlling the Eaton two speed electrical axle.

### STOPLIGHT SWITCH



**52-104 (N.O.)**  
HYDRAULIC (60-100 P.S.I.)  
REPLACES: OEM 314591A, 1328118, B8A-1348QA, 102060-12, FC-6870, C1AZ-13480A, DR-4776, FC-7715, B9SF-13480A, 30356, FAA-13480A, D850, DR-4773, 5812 W, 3145198, B9BF-13480, SWD-4011, 4106A, 100810F, FC, K, OA; 11A-13480A, 666858, 1997725.

### UNIVERSAL BACK-UP ALARM SWITCH



**41-706**

- Switch for vehicles not equipped with automatic back-up light circuit. Mounts adjacent to reverse shift
- Spring loaded lever permits over-travel
- Normally off
- 2.5 Amps Inductive @ 14-28V



**41-802**

- Switch for vehicles not equipped with automatic back-up light circuit.
- SPST with 360° movement
- 15 Amps @ 12VDC



# CIRCUIT BREAKERS



# CIRCUIT BREAKERS

## What are Circuit Protection Devices and how do they work?

Circuit Protection Devices are manufactured for use in multiple power strips, boats, recreational vehicles, battery charges, welding equipment, portable generators, agricultural equipment, trucks, passenger and school buses and off-road construction equipment.

### GENERAL OPERATING PRINCIPLES

Circuit Protectors are single pole thermal type devices. Basic construction consists of two terminals, one terminal with a composite alloy reed to which a precious metal contact has been attached, and the second terminal with a precious metal contact. When a circuit protector is assembled and in the operational mode, the precious metal contacts rest against each other. Current flow is from one terminal through the composite alloy reed to the contacts and out the second terminal. In general, the size, material composition and the way the reed is processed during manufacturing, coupled with the type of contacts and terminals, determines the current rating of the device. Under normal conditions, circuit protectors are designed to handle 100% of rated current on a continuous basis. When the current rating is exceeded heat will be generated and the composite alloy reed will bend up, separating the contacts. The speed at which this process occurs is dependent on two main variables, the amount of current in excess of rating and temperature. The method in which the breaker is reset depends on the types of breakers used.

### Automatic Reset

**Type 1** will cycle continuously during an over-current condition. The composite alloy material will bend and separate the contacts when an over current situation occurs and return to the run mode as it cools. This process will continue until the source of the over-current is removed or corrected.

### Modified Reset

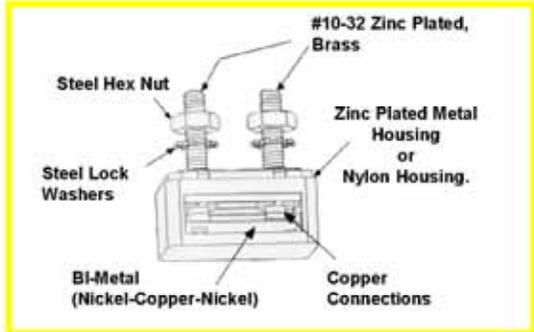
**Type 2** Unlike the auto reset design, Type 2 has an additional resistive component built into it which raises the ambient temperature within the circuit protector. This limits the number of cycles (less than 10) by not allowing the composite alloy to cool and reset the circuit. The circuit will remain open with less than 1.0 amp current flow as long as the voltage is applied.

### Manual Reset

**Type 3** circuit protector introduces a non-current carrying object between the contacts when they open. To reset the contacts, an external button or lever must be activated to return to normal operation.

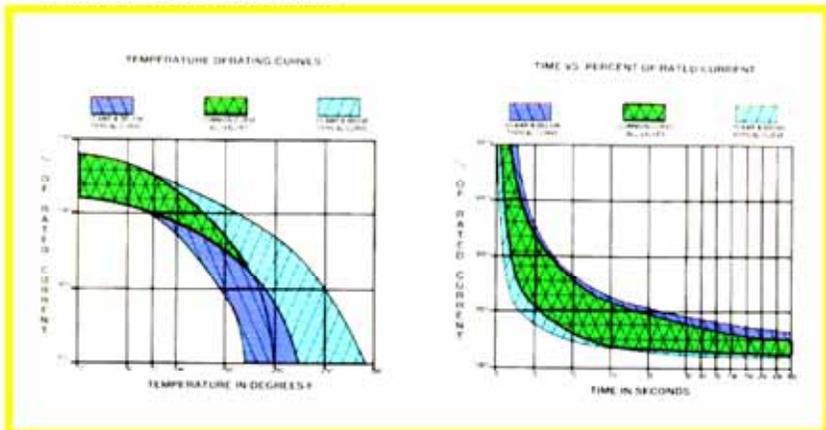
### Sizing A Circuit Protector

Temperature and percent of rated current will affect the performance characteristics of a thermal circuit breaker. These parameters should be taken into consideration when specifying which size and type device is needed for your application. All Pollak circuit protectors are designed to run continuously at 100% of rated current at 77°F. However, as a general rule you should size your breaker so that your continuous current is 75-80% of the rated current of your circuit protector. For example, if your application runs at a continuous 8 amps, you should choose a 10 amp breaker.



Another major factor to consider is the affect that temperature has on the rating of the circuit protector. As with all thermal devices, as temperatures change the continuous current rating of the circuit protector changes. As stated earlier, all Pollak circuit protectors are designed to run continuously at 100% or rated current at 77°F. The bottom chart shows the effect temperature has on the rated current for circuit protectors.

| Notes: Circuit Breakers vs fuses  |                 |      |
|-----------------------------------|-----------------|------|
|                                   | Circuit Breaker | Fuse |
| Resettable Cycles                 | Yes             | No   |
| Adjustable Ambient Compensation   | Yes             | No   |
| Locate Anywhere (even under hood) | Yes             | No   |
| Permanent Mounting Capability     | Yes             | No   |



## Typical Circuit Breaker Applications

Accessory Circuit, Cooling Fan, Door Locks, Headlamps, Tail Lamps, Window Lift, Sunroof, Trailing Package

## CIRCUIT BREAKERS - TYPE I Cycling - Automatic Reset

### Single Pole Thermal Type Breakers

Rating From: 5A to 50A; 12VDC.

Operating Temperature: -10°F (-23°C) to 150°F (65°C).

Storage Temperature: -20°F (-29°C) to 200°F (93°C).

Applications: Battery charges, trucks, buses, RV's, trolling motors, etc.

Approvals: Complies with SAE Standard J553.

## NOTES: PLASTIC VS METAL

\* **VIBRATION**... Plastic housings with mounting brackets are one piece molded and are less prone to vibration. Metal housings with brackets are two piece designs. The bracket is attached by spot welding and can be loosened by vibration.

\* **SHORTING OUT**... If a wire should loosen from a terminal on a plastic housing version, it will not short out against the housing as it may do with a metal housing.

\* **WEIGHT**... The plastic housing is also lighter than the metal housing.

## NOTES: 24V VS 12V CIRCUIT BREAKERS

\* A 24V Circuit Breaker may be used in a 12V application because of the thermal metals used in assembly. However a 12V Circuit Breaker is not recommended for 24V since the materials are Heat affected...not current affected.

| Ampere Rating | Plastic Base 12 VDC | Metal Base 12 VDC |
|---------------|---------------------|-------------------|
| 10            | 54-110PL            | *                 |
| 15            | *                   | 54-115            |
| 20            | 54-120PL            | 54-120            |
| 25            | 54-125PL            | 54-125            |
| 30            | 54-130PL            | 54-130            |
| 35            | 54-135PL            | *                 |
| 40            | *                   | 54-140            |
| 50            | 54-150PL            | 54-150            |

\* Currently not available No Mounting Bracket

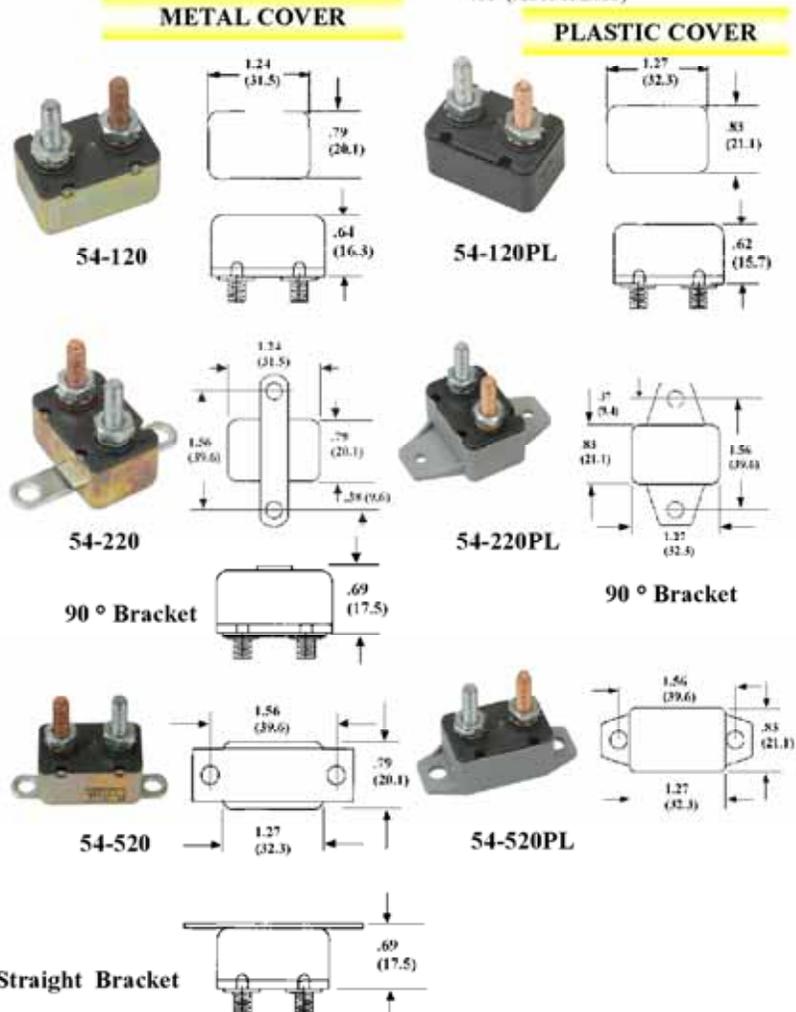
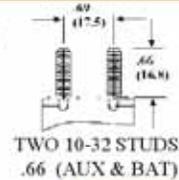
| Ampere Rating | Plastic Base 12 VDC       | Metal Base 12 VDC |
|---------------|---------------------------|-------------------|
| 15            | 54-215PL                  | 54-215            |
| 20            | 54-220PL                  | 54-220            |
| 25            | *                         | 54-225            |
| 30            | 54-230PL                  | 54-230            |
| 30            | 54-831PL (Plastic 24 VDC) |                   |
| 40            | 54-240PL                  | 54-240            |
| 50            | 54-250PL                  | 54-250            |

\* Currently not available 90° Mounting Bracket

| Ampere Rating | Plastic Base 12 VDC | Metal Base 12 VDC |
|---------------|---------------------|-------------------|
| 10            | 54-510PL            | *                 |
| 15            | 54-515PL            | 54-515            |
| 20            | 54-520PL            | 54-520            |
| 25            | *                   | 54-525            |
| 30            | 54-530PL            | 54-530            |
| 40            | 54-540PL            | 54-540            |
| 50            | 54-550PL            | 54-550            |

\* Currently not available Straight Mounting Bracket

Terminal Options – Battery Terminal has yellow dichromate plating  
Aux Terminal – Zinc Plating



## Circuit Breakers - Type II

### Stud Terminal Type

#### Non-Cycling - Modified Reset

Designed with an additional resistive component this style breaker remains open as long as power is available or until the load is removed.

- Non-Cycling-Modified Reset conforms to SAE spec J553C Type II for 12 VDC only
- Metal Housing with zinc plating
- 10-32 stud terminals. Battery terminal has yellow dichromate plating. Auxiliary terminal has zinc plating



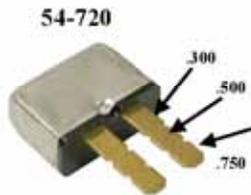
| Stud Terminal Part # | Ampere Rating |
|----------------------|---------------|
| 54-221               | 20            |
| 54-231               | 30            |
| 54-241               | 40            |

### Plug-In Terminal Type

#### Non-Cycling - Modified Reset

Designed with an additional resistive component this style breaker remains open as long as power is available or until the load is removed.

Special "snap-off" feature provides three lengths of .300, .500, or .750" (18 mm) H. Blades = .78" (19.9). Body = 1" (25.27 mm) L x .40" (10.03 mm) W x (.70mm) L.



| Blade Type Part # | Ampere Rating |
|-------------------|---------------|
| 54-705            | 5             |
| 54-710            | 10            |
| 54-715            | 15            |
| 54-720            | 20            |
| 54-725            | 25            |
| 54-730            | 30            |

In 2009 Pollak™ celebrated its 100<sup>th</sup> year in business.



Pollak's™ Canton, Massachusetts manufacturing plant.

## NOTES: STUD TERMINALS VS .250QC BLADE TERMINALS

• **ACCESSIBILITY/VIBRATION . . .** If the circuit breaker is not easily accessible or subject to vibration then stud terminals/lock washers are preferred.

• **OFF-ROAD, CONSTRUCTION . . .** For Quick Connect applications (i.e.. Bus, RV, Conversions...) .250 quick connect terminals are preferred.

## Sealed Circuit Breakers (Type I)

- Designed for exposed applications (moisture, dust, oil).
- With and without mounting brackets.
- Supplied with 12" wire loop.

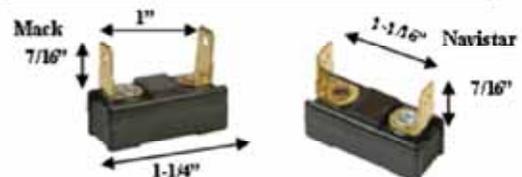
| Ampere Rating | Sealed | Sealed with Bracket |
|---------------|--------|---------------------|
| 20            | 54-920 | 54-921              |
| 30            | 54-930 | 54-931              |
| 40            | 54-940 | 54-941              |



### Plug-In Type

Fits in Mack and Navistar breaker blocks.  
(.250" Quick Connect Terminals).

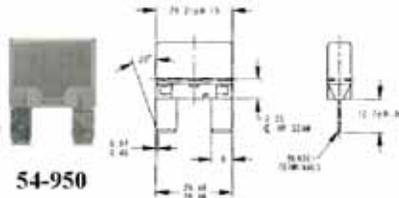
| Ampere Rating | Blade Terminals (Mack) | Blade Terminals (Navistar) |
|---------------|------------------------|----------------------------|
| 10            | *                      | *                          |
| 15            | 54-891PL               | 54-901PL                   |
| 20            | 54-892PL               | 54-902PL                   |
| 25            | 54-893PL               | 54-903PL                   |
| 30            | 54-894PL               | 54-904PL                   |



## CIRCUIT BREAKERS - TYPE II

### Maxi-Style Plug-In

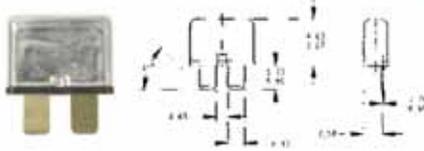
OEM style replacement circuit breaker for Ford, Paccar, & Freightliner Body= (29.9mm) L x (8.90mm) W x (21.6mm) H Blades= (12.7mm) L



54-950

### ATO Style Plug-In

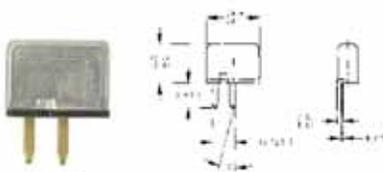
OEM style replacement circuit breaker for Ford Class 8 Vehicles Body= (29.9mm) L x (8.90mm) W x (21.6mm) H Blades= (12.7mm) L



54-953

### Mini-Style Plug-In

OEM style replacement circuit breaker for Freightliner and Paccar Class 8 Vehicles Body= .98" (24.90mm) L x .40" (9.50mm) W x .70" (18.0mm) H Blades= .50" (11.00mm) L x 11" (2.90mm) W



54-957

### MAXI STYLE METAL: TYPE II-Non-Cycling-Blade Terminals

| Ampere Rating | Blade Terminals | Style   |
|---------------|-----------------|---------|
| 20            | 54-950          | Generic |
| 30            | 54-951          | Generic |

### ATO STYLE METAL: TYPE II-Non-Cycling-Blade Terminals

| Ampere Rating | Blade Terminals | Style     |
|---------------|-----------------|-----------|
| 10            | 54-953          | Ford HD 8 |
| 15            | 54-954          | Ford HD 8 |
| 20            | 54-955          | Ford HD 8 |
| 30            | 54-956          | Ford HD 8 |

### MINI BLADE METAL: TYPE II - Non-Cycling-Blade Terminals

| Ampere Rating | Blade Terminals | Style             |
|---------------|-----------------|-------------------|
| 10            | 54-597          | Freightliner HD 8 |
| 15            | 54-958          | Freightliner HD 8 |
| 20            | 54-959          | Paccar HD 8       |
| 30            | 54-960          | Paccar HD 8       |

## CIRCUIT BREAKERS - TYPE III

### Push Button - Manual Reset

Breaker remains open on overload and has to be manually reset with the push of the button.

### Single Pole Thermal Type Breakers

Rating From: 5A to 50A; 12VDC.

Operating Temperature: -10°F (-23°C) to 150°F (65°C).

Storage Temperature: -20CF (-29°C) to 200°F (93°C).

Applications: Battery charges, trucks, buses, RV's, trolling motors, etc.

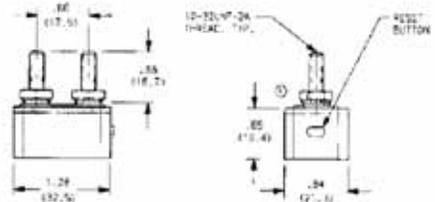
Approvals: Complies with SAE Standard J553.

| Ampere Rating | Plastic  | Plastic w/ 90° Bracket | Maxi-Style |
|---------------|----------|------------------------|------------|
| 10            | *        | *                      | 54-311PL   |
| 15            | *        | 54-616PL               | *          |
| 20            | *        | *                      | 54-321PL   |
| 25            | *        | *                      | *          |
| 30            | 54-630PL | 54-631PL               | 54-331PL   |
| 40            | 54-640PL | 54-641PL               | *          |
| 50            | 54-650PL | 54-651PL               | *          |

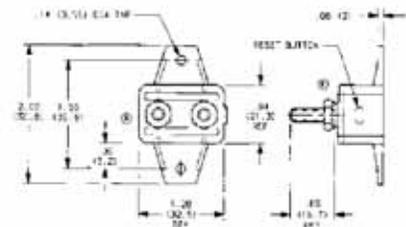
**Note:** Maxi-Style Breakers plug into Pollak Blade Type Fuse Panels. (See page 48)



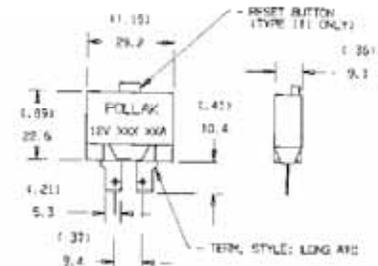
54-630PL



54-631PL



54-311PL



## CIRCUIT BREAKERS - HIGH AMP

### Type I & III Single Rate Thermal Type Breakers

**Rating:** from 40A to 150A; 12VDC.

**Operating Temperature:** -25°F(-32°C) to 180°F(82°C).

**Storage Temperature:** -30°F(-34°C) to 300°F(149°C).

**Applications:** Typically used in auxiliary and accessory circuits - trucks, buses, RV's and marine applications. Others might include battery charges and DC audio systems. Sealed for engine compartment and bilge area applications.

**Housing:** Thermoset plastic; UL rated 94VO; 311°F (155°C).

**Mounting:** Panel or surface.

**Indicator:** Series 54-870 (Type III) have a unique reset mechanism which provides visible indication of tripped condition. Splash Proof, Dust Proof.

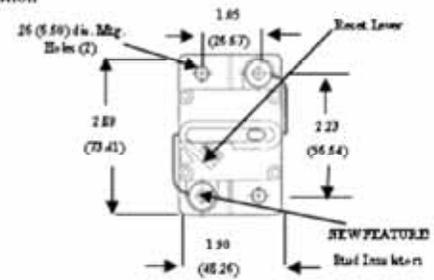
**Operating Temperature:** -25°F(-32°C) to 180°F(82°C).

**Storage Temperature:** 15° to 250° F, (Available in other amperages upon request - 50 to 150 Amps).

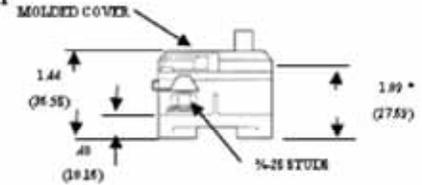
**Approvals:** Complies with SAE Standard J1625.

Manual trip push button on Series 54-870PL. Open circuit indication via reset lever position.

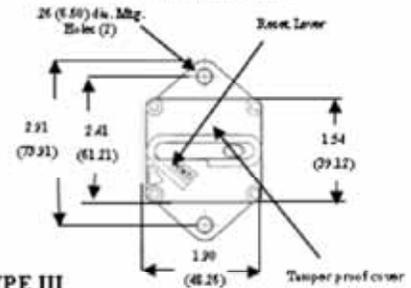
### SURFACE MOUNT



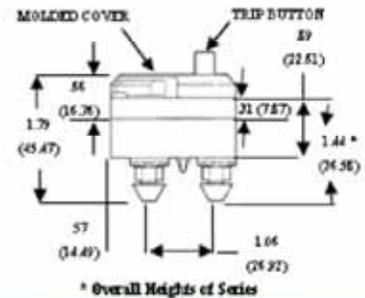
### TYPE III



### PANEL MOUNT



### TYPE III



| Ampere Rating | Type I Auto Reset Surface Mount | Type I Auto Reset Panel Mount |
|---------------|---------------------------------|-------------------------------|
| 60            | 54-850PL                        | *                             |
| 80            | 54-853PL                        | *                             |
| 100           | 54-851PL                        | 54-861PL                      |
| 120           | 54-854PL                        | *                             |
| 150           | 54-852PL                        | *                             |



Type I Auto Reset

| Ampere Rating | Type III Switchable Manual Reset Surface Mount | Type III Switchable Manual Reset Panel Mount |
|---------------|--|--|
| 60            | 54-870PL                                       | *  |
| 100           | 54-871PL                                       | *  |
| 150           | 54-872PL                                       | *  |
| 80            | 54-873PL                                       | *  |
| 120           | 54-874PL                                       | *  |



Type III Switchable

## MOUNTING BRACKETS

Rugged steel brackets with detents permit simple snap-in of 54-115 thru 54-150 (Type I) series metal only circuit breakers.



52-241

| No. Gangs | Part No. | Length | Mounting Hole Center |
|-----------|----------|--------|----------------------|
| 2         | 52-240   | 4.81"  | 4.00"                |
| 4         | 52-241   | 6.63"  | 5.81"                |
| 6         | 52-242   | 8.44"  | 8.44"                |
| 8         | 52-243   | 10.25" | 10.25"               |



52-239

Bus bar for studed circuit breakers.  
.20 X .30 slots (.91 typ. On center)



52-249

7-Breaker Junction box

L 7.5" X W 3.75" X H 2.5"

## CIRCUIT BREAKERS ATC TYPE II – MODIFIED RESET

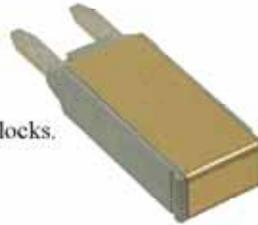
- Single pole thermal – style breakers, 12 VDC.
- Gray Plastic Housing with silver cover.
- Body = (.84") L x (.25") W x (1.07") H.
- Blades – (.43") L.
- Complies with SAE J553 Specifications.



| Part No. | Ampere Rating |
|----------|---------------|
| 54-910   | 10            |
| 54-911   | 15            |
| 54-912   | 20            |

## CIRCUIT BREAKERS MINI TYPE I – AUTOMATIC RESET

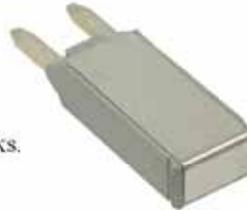
- Single pole thermal – style breakers, 12 VDC.
- Gray Plastic Housing with gold cover.
- Body = (.483") L x (.250") W x (1.06") H.
- Blades – (.354") L. Compatible with 280 fuse blocks.
- Complies with DAE J553 Specifications.



| Part No. | Ampere Rating |
|----------|---------------|
| 54-970   | 10            |
| 54-971   | 15            |
| 54-972   | 20            |

## CIRCUIT BREAKERS MINI TYPE II – MODIFIED RESET

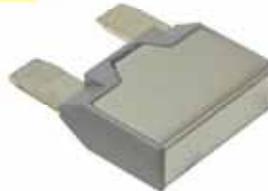
- Single pole thermal – style breakers, 12 VDC.
- Gray Plastic Housing with silver cover.
- Body = (.483") L x (.250") W x (1.06") H.
- Blades – (.354") L. Compatible with 280 fuse blocks.
- Complies with DAE J553 Specifications.



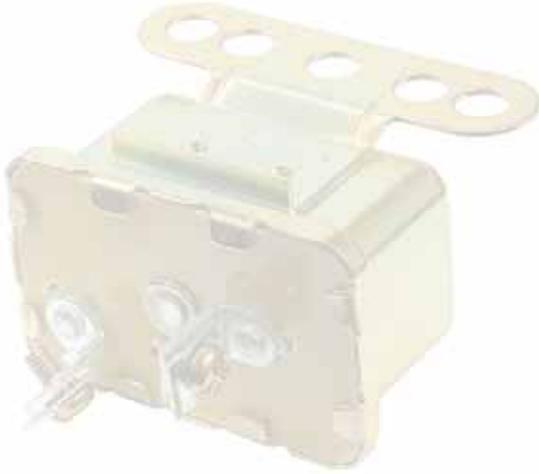
| Part No. | Ampere Rating |
|----------|---------------|
| 54-975   | 10            |
| 54-976   | 15            |
| 54-977   | 20            |

## CIRCUIT BREAKERS MAXI TYPE II – MODIFIED RESET

- Single pole thermal – style breakers, 12 VDC.
- Gray Plastic Housing with silver cover.
- Body = (1.15") L x (.36") W x (.89") H.
- Blades – (.50") L.
- Interchangeable with MAXI blade fuse.



| Part No. | Ampere Rating |
|----------|---------------|
| 54-981   | 15            |
| 54-982   | 20            |
| 54-983   | 25            |



**SPECIALIZED ELECTRICAL PRODUCTS**

# SPECIALIZED ELECTRICAL PRODUCTS

## SPECIFICATIONS

### Interchangeable Blade Terminals:

Accepts ATC® blade-type fuses, or blade-type, auto or manual reset circuit breakers.

**Wiring:** Output terminals - .250" x .032" OC rated 30A max. per circuit; Input terminals - #10-32 stud input rated 150A max.

**Positions:** Provides 6-24 protected output circuits.

**Material:** Black, UL rated 94 VO thermoplastic, -20°F to 150°F.

**Applications:** Compact and lightweight, yet rugged enough for use in trucks, buses, boats, RV's etc.

**Other Features:** No top cover needed; recessed trifurcated fuse contacts. Recessed mounting holes.



**52-406**

### ATC BLADE TYPE FUSE PANEL

| Position | Blade Type | Dimensions                  | Mounting Hole Center |
|----------|------------|-----------------------------|----------------------|
| 6        | 52-406     | L 2.47" x D 3.38" x H 0.81" | 0.62"                |
| 8        | 52-408     | L 3.09" x D 3.38" x H 0.81" | 1.25"                |
| 10       | 52-410     | L 3.72" x D 3.38" x H 0.81" | 1.87"                |
| 12       | 52-412     | L 4.34" x D 3.38" x H 0.81" | 2.50"                |

### FUSE PANEL

| Position | Blade Type | Blade Terminals | Dimensions                 |
|----------|------------|-----------------|----------------------------|
| 12       | 52-214     | 52-214Q         | L 7.38" x D 2.0" x H 0.56" |

For economical tight cluster mounting of 1/4" x 1-1/8" fuses. Breakaway design, 300 volt rating, UL Recognized, CSA Listed. Blocks are molded glass-filled thermoplastic, polyester clips are spring-bronze; Alboloy-plated.

### FUSE HOLDERS

**52-116**

30 Amp. Fuse Holder, 12 gauge wire.



Complete with 6"-16" gauge wire, looped, and fuse



20 AMP. Black Holder



**52-248**

10-Terminal Junction Box



**52-249**

7-Circuit Breaker Junction Box



**52-259**

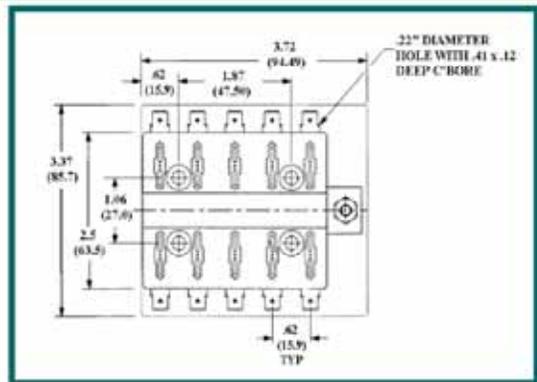
7-Terminal Junction Box



**52-216**

In-Line Fuse holder for use with 25 or 30 Amp ATO Fuses. Supplied with two 4" leads of 12 gauge wire.

**52-215** In-Line Fuse Holder for use with 3, 5, 7.5, 10, 15, and 20 Amp ATO Fuses. Supplied with 8" loop of 16 gauge wire.



### TERMINAL BLOCKS (Non Feed-Thru)

**Rating:** 30A, 12 VDC.

**Operating Temperature:** 250°F (120°C).

**Standards:** 2 to 10 steel studs on .750" centers and a "dog point" to guide nut into 10-24 thread.

**Torque:** Recommended 20 in / lb (25 in / lb max).



**52-244**

| No. of Gangs | Terminal Block | Length | Mounting Hole Center |
|--------------|----------------|--------|----------------------|
| 4            | 52-244         | 4.5"   | 0.62"                |
| 6            | 52-245         | 6"     | 1.25"                |
| 8            | 52-246         | 7.5"   | 1.87"                |
| 10           | 52-247         | 9"     | 2.50"                |

### TERMINAL BLOCKS WITH INDEPENDENT FEEDS

| No. of Gangs | Terminal Block | Dimensions                  | Mounting Hole Center |
|--------------|----------------|-----------------------------|----------------------|
| 4            | 52-270         | L 2.51" X W 1.37" X H 0.75" | 2.18"                |
| 6            | 52-271         | L 3.38" X W 1.37" X H 0.75" | 3.06"                |
| 8            | 52-272         | L 4.25" X W 1.37" X H 0.75" | 3.93"                |
| 10           | 52-273         | L 5.13" X W 1.37" X H 0.75" | 4.81"                |
| 14           | 52-274         | L 6.87" X W 1.37" X H 0.75" | 6.56"                |

**Rating:** 20A, 12 VDC, UL & CSA

**Center Spacing:** 7/16"

**Wiring:** Terminals will accept maximum wire size of AWG #12

**Terminal Screw Size:** #6-32 phislot combination.

**Distance Between Barriers:** 0.353".

**Mounting:** #6 Screws.

**Temp. Rating:** °F(°C): 302 (150) max. -40 (-40)min.

## BATTERY JUMPER TERMINALS

- Jumper terminals designed to provide remote mounting for battery connections either inside or outside of the vehicle.
- Easily installed, the positive terminal can be individually used or in conjunction with the negative terminal as a pair.
- Rubber caps, solid brass studs, brass hex nuts and brass lockwashers.
- Dimension for grooved contact post: 13/16" (20.63mm) dia., 1-1/8" (28.77) long.



**52-138**  
Red Cap - Positive Terminal



**52-139**  
Black Cap - Negative Terminal

## SEALED BEAM FLASHER CONNECTORS

**52-255**  
2 Wire connector assembly used on all vehicles with 2 prong seal beam lighting, or 2 prong flashers

**52-255**



**52-256**  
3 Wire connector assembly used on 3 prong seal beam lighting, or 3 prong flashers.

**52-256**



## PILOT LIGHT

**52-115**  
12 VOLT PILOT LIGHT. Red 1/2" diameter faceted lens. For panel mounting through 5/16" hole. Has snap-out socket for conventional bulb replacement.



**52-115**

## BUZZER

**UNIVERSAL**  
Truck Low Air Pressure And Bus Rear Door Warning

**52-400**  
12 Volt-2 Screw Terminals. 76dB @ 4: REPLACES: Ford FDM 2938A; GMC Truck and Coach 76023; Wayne Works Div., Divco-Wayne E-11811A and other 12 volt applications.

**52-400**



## HORN BUTTONS

**52-660**  
Large IVORY Button, 1-11/16" Dia. with clamp-On Bracket. Fits Steering column up to 1-1/2".

**52-660**



**52-777**  
Large BLACK Button, Chrome Plated Housing.

**52-661**



**52-661**  
FLAT SURFACE MOUNTING BLACK Plastic Button, Nickel Plated Housing, Mounting Holes 2-1/8" on centers

**52-777**



# Look What's *NEW*...

Pollak has a "new and improved" website; visit us at [www.pollakaftermarket.com](http://www.pollakaftermarket.com)

**41-822**  
Medium Duty Alarm



**41-851**  
Heavy Duty Alarm

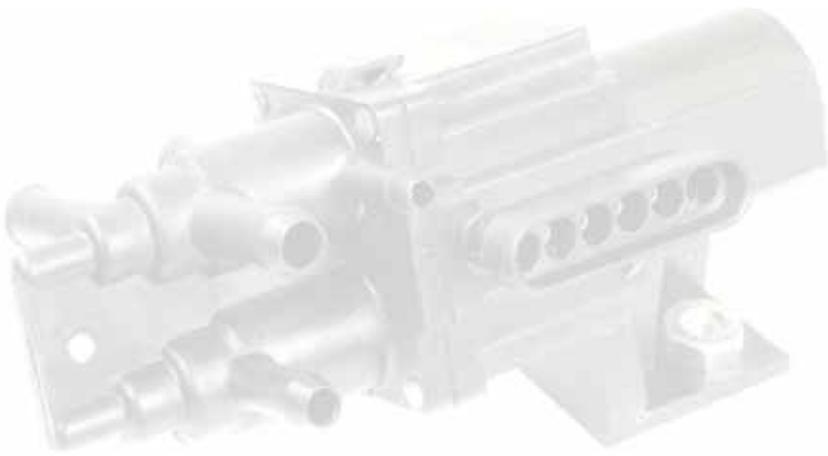


**41-820**  
Medium Duty Alarm

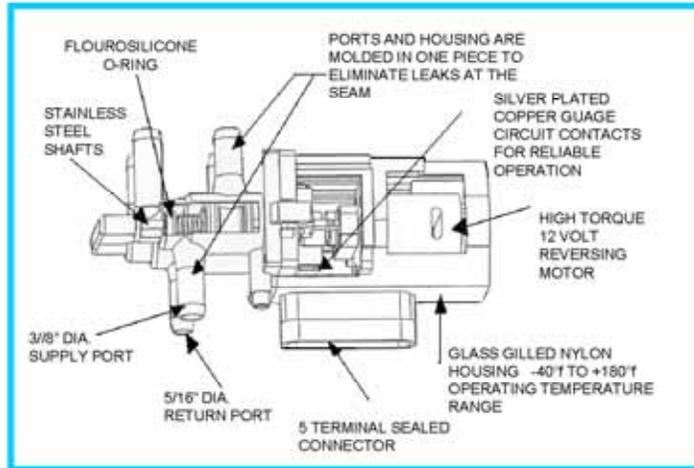
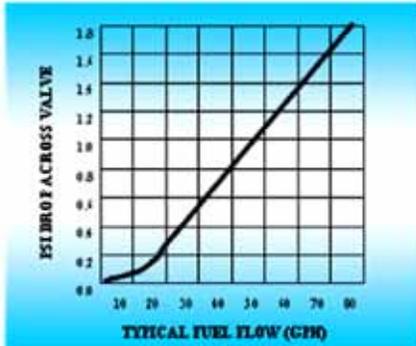


**Back-up Alarms**  
Modernized and Improved  
Alarms and Packaging

# VALVES



# FUEL TANK SELECTOR VALVES



## MOTORIZED FUEL SELECTOR VALVES -

(Diesel or Gas) These valves are designed for use in applications which involve in-tank fuel pumps, not exceeding the rated pressure of the valve. Motorized valves are driven into position by an electric motor and are stable in either position. They only draw power for a fraction of a second during transfer. A switch in the valve shuts off the motor when the valve reaches the selected position.

**NOTE:** Another switch within the valve provides automatic fuel gauge readout for selected tank.

### 42-159 (65 PSI) LIGHT TRUCK 6-PORT MOTOR DRIVEN VALVE

Incorporates six ports including return, draws .5 amps. max. at 12 volts, fits 3/8" I.D. hose for fuel supply and 5/16" hose for return lines. Mounting holes: 2 5/16" threaded nuts on 1 3/16" centers. Valve remains in actuated position after power is disconnected. For new installations 42-203 connector and 34-592 toggle switch required. Installation sheet included.

### 42-300 KIT - 6 PORT MOTORIZED VALVE; CONNECTOR, SWITCH AND FACE PLATE

Contains: 42-159, 42-203, 34-592, 42-201  
Specifications: Same as 42-159

### 42-302P KIT - 6 PORT MOTORIZED VALVE AND CONNECTOR

Contains: 42-159, 42-203  
Specifications: Same as 42-159



## FUEL TANK SELECTOR VALVES

**42-151**

**3 PORT MOTORIZED VALVE**

Maximum Fuel System Pressure: 65  
psi Fuel Hose: 3/8" ID. Connector  
(Required): 42-203 Recommended  
Fuse: 7.5A



**42-151**

**42-308**

**KIT-3 PORT MOTORIZED  
VALVE; CONNECTOR, SWITCH  
AND FACE PLATE**

Contains: 42-151, 42-203, 34-592, 42-201  
Specifications: Same as 42-151

### **SERVICE TIPS**

**Motorized Valves** – Use 18 AWG (or heavier wire for long runs) to insure adequate voltage at the valve during operation. These valves are designed for use in vehicles with 12 volt systems.

**Motorized Valve Common Solutions for the 42-159 & 42-151**

**PROBLEM-** *The gauge reads the fuel level in the wrong tank.* Check the wiring for the fuel tank gauge sending units to the valve. Exchanging the wires to terminals "A" and "C" may correct this.

**PROBLEM-** *The valve won't switch tanks.* Check all wiring to the valve. The valve changes position when the voltage polarity at the terminals "D" and "E" is reversed. The valve should always have 12 volts between terminals "D" and "E".



**42-201**



**34-592**

### **General**

**Always use fuel filters** between the tanks and the valve. Contamination from unfiltered fuel is a leading cause of valve damage and resultant failure.

**These valves are not for marine applications.**

**Not for use with water.** These valves are designed and manufactured to provide trouble free operation in multiple tank fuel systems. The internal components require diesel or gas fuel to lubricate the working parts.

Do not allow valves to remain dry for extended periods of time. Dried fuel will cause the internal seals to stick and can damage them when the valve is eventually actuated. The use of a fuel stabilizer during long term storage is recommended.

## FUEL TANK SELECTOR VALVE ACCESSORIES

**34-592**

**Toggle Switch**

**D.P.D.T.**

Circuit: DPDT ON-ON Reversing

Positions: 2

Termination: 6 Screw 2 Jumper Blades

Mounting: 15/32" Dia. Bushing



**Rocker Switch 34-359**

Reversing Rocker Switch,  
(Main/Aux.)

On-On D.P.D.T. 2 Positions,

6 Blade Terminals with

Jumper Blades, Fits .830" x

1.450" Panel Cutout in .093,

.125, .187 thick panels.

Black Bezel & Actuator.

Housing has nylon gasket for  
protection against moisture  
intrusion.



**Motorized**

**Valve Connector**

**42-203**

Connector,

Type: 5 Wire, Weatherproof

Pigtail: 5" 18 Gauge Wires



**42-201**

**Faceplate** (Supplied in 42-300)

Material: Bright Nickel Plated

Steel Legends: AUX, MAIN

**25-371**

**1/2 Toggle Boot**

Same as Toggle Boot #25-370  
except allows Toggle Handle  
(of any length) to protrude.

Accommodates all toggle lever  
diameters from .155" - .240"  
including all Pollak toggles  
except nylon handle series.



**25-370**

**Toggle Boot**

EPDM Rubber Boot with 15/32-32  
thread. Provides protection against  
salt spray and is resistant to weather  
and ozone. Can be used on 34-570  
Series and other toggle switches with  
15/32" Dia. mounting stem.



# ALARMS

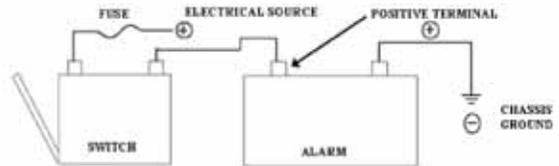


# BACK-UP ALARMS

Pollak™ provides a complete family of back-up alarms manually adjustable and single level. Selection of a back-up alarm should result in an alarm that has a sound level output higher than the ambient noise level of the work environment.

## Features Standard To Pollak™ Electronic Back-Up Alarms:

- Manufactured of high-impact, non-corroding nylon.
- 100% Factory Tested
- Solid state electronics sealed against dust, moisture, and vibration.
- Can be used in positive or negative ground vehicles.
- Steam cleanable.



## 41-761 (9-24 Volts)

### MANUALLY ADJUSTABLE 112/107/97db

Heavy-duty adjustable unit for largest construction and mining vehicles, graders, dumps, crawlers, tractors, belly dumps, etc. Designed for high performance, the most compact lowest cost unit of this type available.

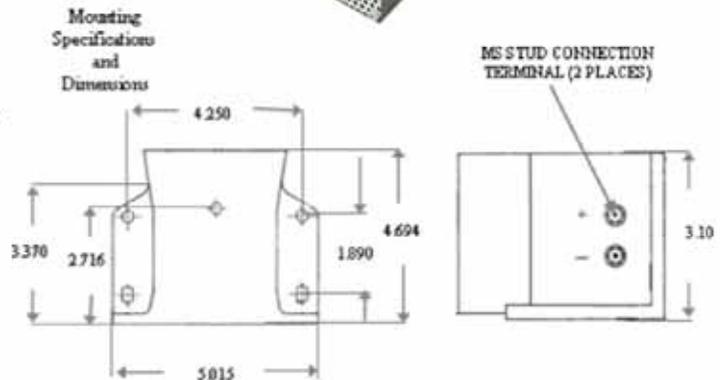
#### SPECIFICATIONS:

- Adjustable sound levels... 112dB... 107dB...97dB(A) ±4 @ 4'
- Multi-voltage 9 to 24 volts
- Voltage spike protected
- Current draw less than 1 amp
- Solid state electronics
- Certified conformance to S.A.E., J994, types A, B, & C
- Meets State, Federal, O.S.H.A., Bureau of Mines, and Army Corps of Engineers' requirements
- Size - 5" W x 4.7" D x 3.1" H
- Mounting - 2" x 4 -1/4" centers
- Net weight - 2.0 lbs.

#### FEATURES:

- Made of high impact, non-corroding plastic
- Weather resistant and steam cleanable
- Operates in temperature ranges (-40° F to +170° F)
- Can be used on positive and negative ground vehicles

41-761



## 41-802

- Robust Heavy Duty Switch
- Water Resistant
- 15 Amps @ 12VDC
- Single Pole Double Throw with 360 Degree Movement
- Mounting Bracket & Instruction Sheet Included

For vehicles not equipped with an automatic back-up circuit. Use with any back-up alarm, but the "Pro's" trust **Pollak™**.

# BACK-UP ALARMS

Pollak™ provides a complete family of back-up alarms manually adjustable and single level. Selection of a back-up alarm should result in an alarm that has a sound level output higher than the ambient noise level of the work environment.

NEW: 41-851, 41-820 & 41-822

- Slotted mounting – ‘drop in’ replacement
- Wire leads enhance corrosion protection (from traditional studs)
- New design – smaller size, less heat, longer life
- The “Next Generation” of back up alarms

## 41-851 (12-24 Volts) SINGLE LEVEL 107db

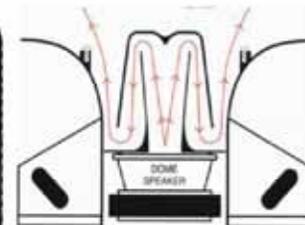
A Medium to Heavy-Duty unit for off-highway trucks, dump trucks, loaders, cranes, backhoes, etc.

### SPECIFICATIONS:

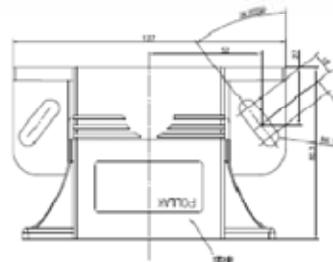
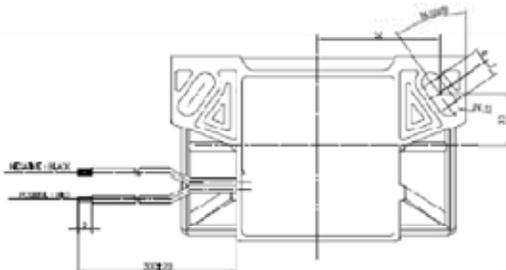
- Single level...107dB (A) +4 @ 4'
- Voltage spike protected
- Reverse polarity protected
- Current draw less than 0.3 amps
- Solid state electronics
- Certified conformance to S.A.E. J994, type B
- Meets all European Standards for on and off-road vehicles (CE & E-Mark Certified)
- State, Federal, O.S.H.A., Bureau of Mines and U.S. Army Corps of Engineers' requirements
- 12" Wire Leads
- Size-5"Wx3.25"Dx3"H
- Mounting – 2 slots .75"Lx.25"W and 2 slots 1"L x .25"W on 4.25" centers
- Net Weight - 1.2 lbs.

### FEATURES:

- Rugged Glass-Filled Nylon Housing
- Steam cleanable/Pressure Washable
- Low Current High Efficiency Dome Speaker
- Meets extreme requirements of off-highway equipment
- Operates in temperature ranges (-40° F to +185° F)
- Can be used on positive and negative ground vehicles



Patent Pending *Dome Speaker* demonstrating the self-cleaning feature; expelling concrete dust.

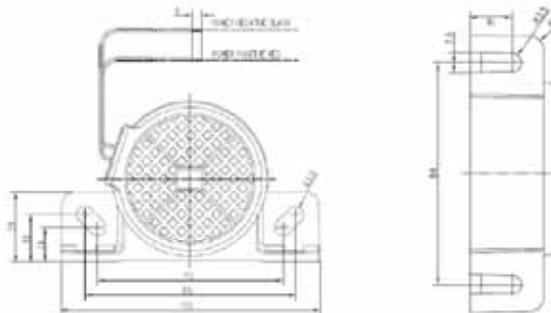


**41-820 (12-24 Volts)  
SINGLE LEVEL 97db**

The rugged and compact 41-820 allows replacement of unnecessarily large and bulky alarms currently used on light and medium duty trucks, dump trucks, motor homes, campers, electric fork lifts and other similar applications.

**SPECIFICATIONS:**

- Single level...97dB(A)  $\pm$  4 @ 4'
- Multi-voltage -12-24 volts
- Voltage spike protected
- Reverse polarity protected
- Current draw less than 0.3 amps
- Solid state electronics
- Certified conformance to S.A.E. J994, type C
- Meets State, Federal and U.S. Army Corps of Engineers' requirements
- Meets all European Standards for on and off-road vehicles (CE & E-Mark Certified)
- Size-4"Wx1.25"Dx2.5"H
- Mounting - four .5"Lx.25"W slots on 3.25" centers



**FEATURES:**

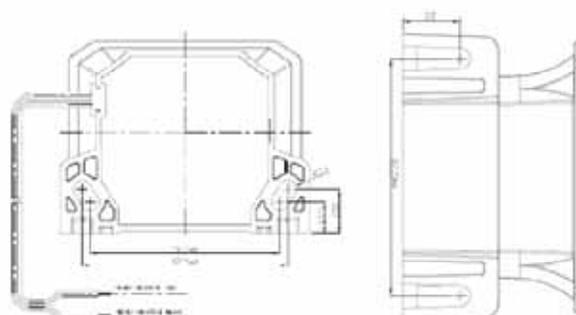
- Rugged glass-filled nylon housing
- Steam Cleanable/Pressure Washable
- Can be used on positive and negative ground vehicles
- Compact size allows for horizontal or vertical mounting in protected areas

**41-822 (12 to 24 Volts)  
SINGLE LEVEL ALARM 107db**

For use in medium to light duty applications where a louder warning level is required.

**SPECIFICATIONS:**

- Single level...107dB(A)  $\pm$  4 @ 4'
- Multi-voltage-12-24 volts
- Voltage spike protected
- Reverse polarity protected
- Current draw less than 0.3 amps
- Solid state electronics
- Certified conformance to S.A.E. J994, type B
- Meets State, Federal and U.S. Army Corps of Engineers' requirements
- Meets all European standards for on and off-road vehicles (CE & E-Mark Certified)
- Size - 4"W x 2.5"D x 3."H
- Mounting - two .5"Lx.25"W slots and two .75"Lx.25W slots on 3.25" center
- Net Weight - 1 lb



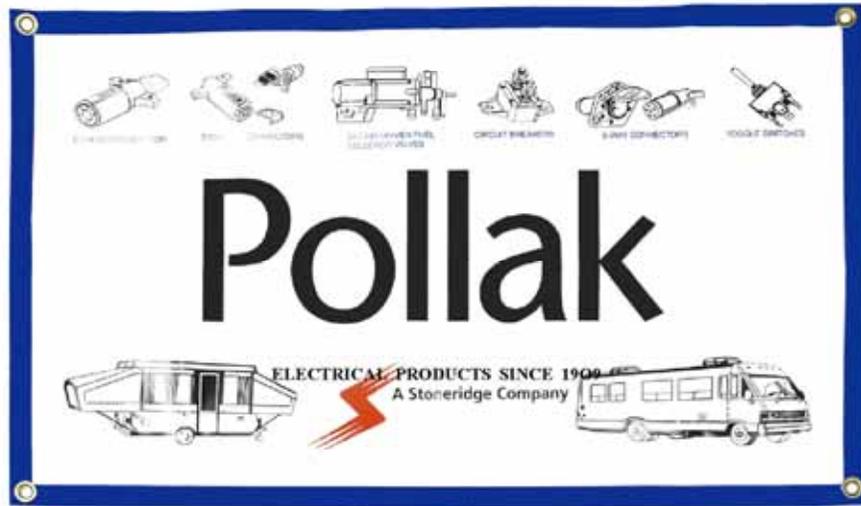
**FEATURES:**

- Rugged glass filled nylon housing
- Steam Cleanable/Pressure Washable
- Low current, high efficiency dome speaker
- Can be used on positive and negative ground vehicles
- Compact size allows for horizontal or vertical mounting in protected areas

# MERCHANDISING DISPLAYS



# MERCHANDISING DISPLAYS



BANNERS

**RV Banner (shown)**  
18"H x 30" Wide  
53-340 RV

**Heavy Duty Banner**  
18"H x 30" Wide  
53-340 HD



# MERCHANDISING DISPLAYS

## RACK IT, STACK IT OR STAND IT.....

**HELP YOUR CUSTOMERS BY LETTING THEM HELP THEMSELVES.**

### NEW VISI/PAKS FROM POLLAK WILL SELL THEMSELVES!

Pollak's new P.O.P. (Point Of Purchase) - (Point Of Profit) program now provides a quality blister box package for a quality program. These attention getting blister boxes are manufactured from recycled plastic and not only do they provide total visual packaging, they are tamper resistant and provide good product protection. The descriptive labels are UPC bar coded for inventory control and checkout scanning and the part # is printed on the front for easy identification.

#### RACK'EM...



Rack up sales with Pollak's™ NEW Visi/PAK Clamshells. These specially designed packages have butterfly hangers that fit standard pegboard hooks or OSHA 6" safety hooks. The extended base allows it to hang evenly. All five compact sizes are (2-11/16" to 4.5" wide) and will easily fit a variety of eye catching plan-o-grams.

**RACK'EM** behind the counter, make a difference in an aisle display, or better yet combine them with Pollak's™ colorful boxed products for an effective endcap display.

#### STACK'EM...



Don't have space to RACK'EM, No Problem. Pollak's NEW Visi/PAKS can be stacked in various assortments for self servicing convenience. Why shell out money watching your inventory sit out back? Display these fast moving items out front and help boost your impulse sales by letting your customers help themselves...

#### STAND'EM...



A=3-5/8"H x 2-11/16"W x 1-1/4"L  
 B=4-3/8"H x 2-5/16"W x 1-7/8"L  
 C=5-3/4"H x 3-1/2"W x 2-3/8"L  
 D=7"H x 4-1/2"W x 2-1/4"L

The Visi/PAK extended base offers you the flexibility to utilize your shelf or counter space for maximum exposure. Stand them alone or in groups and then stand back and watch these Visi/PAKS sell themselves.

### RACK'EM, STACK'EM, OR STAND THEM, YOU DECIDE.

Stay ahead of the pack with Pollak's™ NEW Visi/PAK

# MERCHANDISING DISPLAYS

## **TOGGLE SWITCHES** Heavy Duty – 50 Amps, 12 Volt D.C.

**53-210** Contains Assortment 6 each #34-212 and #34-213

**53-212** Contains 12 #34-212, with Short Bat Handle

**53-213** Contains 12 #34-213, with Long Bat Handle.



## **MOMENTARY START SWITCHES**

Extra Heavy Duty – 60 Amps, 12V, 40 Amps 24V

**53-359** Contains 12 #24-359

**53-360** Contains 12 #24-360

**53-372** Contains 12 #24-372



## **PUSH PULL SWITCHES**

Heavy Duty – 75 Amps, 12 Volt D.C.

**53-306** Contains 12 #35-306

- Die Cut hole to accommodate standard peg hooks.
- Pull out easel enables flexible positioning on shelf or counter top.
- Sturdy 11" x 14" board, with colorful new graphics, puts 10 fast-moving #35-306 heavy duty push-pull switches in view of your customers.
- Boosts impulse sales and increases profits.



# Pollak™ Connector & Towing Center



Pollak™ Connector and Towing Center... supporting the ***Great American Outdoors***



## End Cap Display: **53-136**

(consult factory to create your own customized display)



#53-117

### 53-117 FLEET DISPLAY BOARD

Assortment contains each of the following:

- P/N 24-372 Momentary Start Switch
- P/N 31-103 Universal 4 Position Ignition Switch
- P/N 31-114 Universal International Harvester Type Replacement Ignition Switch
- P/N 34-212 Heavy Duty 2 Position Toggle Switch
- P/N 34-213 2 Position Toggle Switch With Extra Long Bat Handle
- P/N 34-571 Heavy Duty 2 Position Toggle Switch
- P/N 34-579 Long Handle Marker Light Toggle Switch
- P/N 34-586 Lighted Toggle Switch
- P/N 35-306 75 Amp Extra Heavy Duty 2 Position Push-Pull Switch
- P/N 54-220 20 Amp Circuit Breaker
- P/N 11-737 7 Pole Trailer Socket with 20 Amp Circuit Breakers
- P/N 11-752 Heavy Duty 7 Pole Trailer Connector
- P/N 41-720 97db Back-Up Alarm
- P/N 51-302 Heavy Duty Master Disconnect Switch
- P/N 11-900 Weather Beater 7-Way Plug

## Packaging & Merchandising Options

Connectors, Adapters & Switches for the *Value* conscious consumer:

Currently available:

- 4-Pole Connectors
- 6-Pole Connectors
- 7-Pole Connectors
- RV Connector Adapters
- Heavy Duty Toggle Switches
- Heavy Duty Push-Pull Switches
- *New Products added often, look for updates...*

- Most popular connector and adapter items available
- Attractive packaging – easy order box quantities
- Connectors certified to SAE J560 specifications
- All products validated in Pollak's™ Certified Labs

### Packaging Options



Bulk Packed

**NEW**

Clamshell  
Cards



Retail Bags



53-134 Spinner Rack. Stand alone floor display - shown with Value Line retail bags.

Using Stoneridge's global manufacturing "footprint", Pollak™ continues to expand its offering of price competitive alternatives to the renowned Pollak™ North American products. In stock, ready to go, and priced to sell.

ELECTRICAL  
CONTROLS  
SINCE 1909



Canton, Massachusetts  
Phone: 800-225-6046  
Fax: 800-888-1126  
Website:  
www.pollakaftermarket.com

## WIRING COLOR CODES

| RECREATION VEHICLE<br>7 - POLE CONNECTORS |  |                                  |                        |
|---|--|----------------------------------|------------------------|
| No.                                       | Color  | Circuits                         | Recommended Wire Gauge |
| 1   | White     | Ground Return                    | 10 Ga                  |
| 2   | Blue      | Electric Brake                   | 12 Ga                  |
| 3   | Green     | Tail, License and Running Lights | 14 Ga                  |
| 4   | Black     | Battery Charge                   | 10 Ga                  |
| 5   | Red       | Stop & Left Hand Turn Signal     | 14 Ga                  |
| 6   | Brown    | Stop & Right Hand Turn Signal    | 14 Ga                  |
| 7   | Yellow  | Auxiliary Circuit                | 14 Ga                  |

| HEAVY DUTY TRUCK<br>7 - POLE CONNECTORS |   |   |                        |
|---|---|---|------------------------|
| No.                                     | Color   | Circuits  | Recommended Wire Gauge |
| 1                                       | White   | Ground Return   | 8 Ga                   |
| 2                                       | Black   | Clearance, Side Marker, and Identification Lamps      | 12 Ga                  |
| 3                                       | Yellow  | Left Turn & Hazard Signal                             | 12 Ga                  |
| 4                                       | Red     | Stop Lamps & Anti-Lock Devices                        | 10 Ga                  |
| 5                                       | Green   | Right Turn Signal & Hazard Signal                     | 12 Ga                  |
| 6                                       | Brown  | Tail, Rear Clearance, Marker, and License Plate Lamps | 12 Ga                  |
| 7                                       | Blue  | Auxiliary Circuit/ABS                                 | 10 Ga                  |

| UNIVERSAL<br>6 - POLE CONNECTORS |  |                   |
|----------------------------------|--|-------------------|
| No.                              | Color  | Circuits          |
| 1                                | White   | Ground Return     |
| 2                                | Brown   | Tail Lights       |
| 3                                | Yellow  | Left Turn         |
| 4                                | Red     | Stop              |
| 5                                | Green   | Right Turn        |
| 6                                | Blue    | Auxiliary Circuit |

| UNIVERSAL<br>4 - POLE CONNECTORS |  |                           |
|----------------------------------|--|---------------------------|
| No.                              | Color  | Circuits                  |
| 1                                | White    | Ground Return             |
| 2                                | Green    | Right Turn & Brake Lights |
| 3                                | Yellow or Red   | Left Turn & Brake Lights  |
| 4                                | Brown    | Tail Lights               |

For POLLAK™ products, contact:

Note: Check all circuits before operating vehicles

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