Pollak®



engineered solutions to design challenges









Pollak®



Since 1909, Pollak® has provided the transportation industry with innovative designs, reliable manufacturing, high quality standards, competitive pricing and low life cycle costs. More than 1,000 employees located in three manufacturing locations totaling approximately 250,000 square feet of design, test and production space are now providing custom and standard components to OEM's and aftermarket suppliers in automotive, light, medium and heavy duty truck, agricultural, construction equipment, marine and related industries. Pollak® excels in its ability to design and manufacture from the concept stage through manual, semi-automatic and fully automated, high volume production. Pollak® is a certified ISO9001/QS9000 manufacturer and has also earned Q1 preferred status at Ford, General Motors' Mark of Excellence, Chrysler's Gold Pentastar, Navistar V and similar rankings with PACCAR, Freightliner, John Deere, Case, Caterpillar, Borg-Warner and other respected OEM's.



Stoneridge's **Control Devices Division** located in Canton, MA and Lexington, OH is a leading supplier of electrical connectors, switches, and

sensors. This division develops, manufactures and supplies a wide variety of electromechanical products including toggle, rocker, door, pedal and ignition switches, back-up alarms, circuit breakers and related items. Pollak® is the Aftermarket business located within the Stoneridge's Control Devices Division. In 2009 Pollak® celebrated it's100th year in business.



Stoneridge's Electronics Division located in El Paso, TX and Juarez, Mexico is an independent producer of electronic displays for the North American

Trucking industry. This division designs and manufactures electronic modules, power converters and instrument clusters for transportation related industries.





For senior design engineers at major OEM's, the operator of a heavy duty truck or the weekend camper, the name Pollak® has always symbolized technology and quality.

As a Stoneridge Company, Pollak® continues the tradition today.

ELECTRICAL CONTROLS





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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



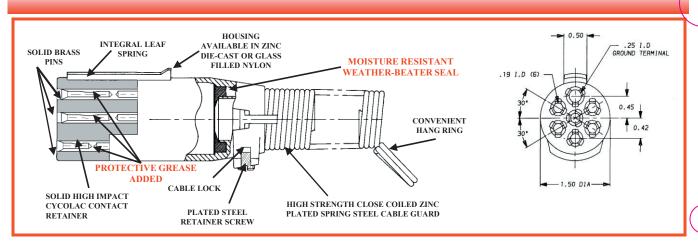








7-POLE PLUGS



ZINC **DIE-CAST**

GLASS FILLED NYLON

11-910 11-902 Weather-Weather-Beater Beater Plug Plug with Cable with Cable Guard Guard 11-702 11-710 Standard 7-Pole Standard 7-Pole Plug with Cable Plug with Cable Guard Guard 11-900 Weather-Beater Plug 11-700 Standard 7-11-704 Pole Plug Standard 7-Pole Plug 11-904 Weather-Beater Plug

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
- High-impact cycolac 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.

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

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 SAEJ560 (SAE applies only to solid pins)
- Floating pins for ease of alignment and maximum contact.
- Optimum slant mount and drain slot rid
- Optimis stati mount and a tash stot rath 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

ZINC **DIE-CAST** DRAIN SLOT IN COVER 11-720 Solid Pin 2 hole mount 11-721 Split Pin 2 hole mount BOTTOM LIP EXTENDED FOR BETTER PLUG **SUPPORT**

11-729 Solid Pin 3 hole mount

> 11-730 Split Pin 3 hole mount

POLLA/GLASS **GLASS FILLED NYLON**

> 11-724 Nylon socket Split Pin

11-723 Nvlon 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.

BUILT-IN OPTIMUM SLANT FOR DRAINAGE



11-780

Neoprene rubber gasket for 3 hole mount die-cast sockets. May be used as template 11-773

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



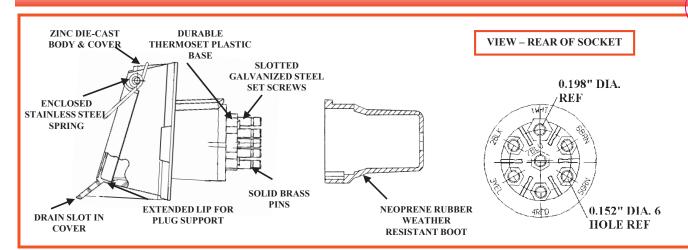
11-771 7-Pole Socket bracket. Fits all 7-Pole Sockets including 11-851.



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

11-781 Hardware Kit for 7-Pole Zinc Die-Cast Socket 11-779 Hardware Kit for 7-Pole Molded Pollak/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

ISO TYPE CONNECTORS

12-812 ISO 7-Way Connector Socket

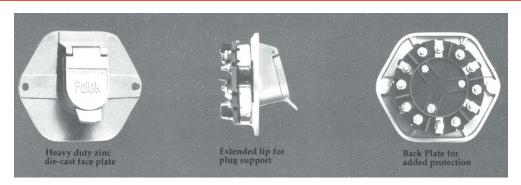




12-811 ISO 7-Way Plug with cable guard

7-POLE SOCKETS

WITH REPLACEABLE CIRCUIT BREAKERS



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

11-732 Solid Pin

11-733 Split Pin



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.

RING TERMINATION STYLE

(Not shown) 11-796 Split Pin





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

P	art No.	Description
1	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.

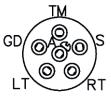


11-802 Adapter Housing



6-POLE CONNECTORS

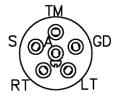
6-POLE SOCKET



(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)



11-604 Plug, no cableguard

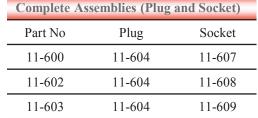


11-605 Plug with cableguard





11-609 Socket. Concealed Terminals



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



11-607 Socket, exposed terminals

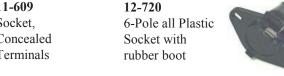


11-614 Black Plastic Socket with metal lid

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.

Three socket versions to choose

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.





11-613 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.

Same at 11-627 except without black zinc coating 4-way or 6-Way Sockets. for protection against rust and corrosion



11-647

Connector Bracket for Heavy gauge with black zinc protective coating.







11-616 Rubber Boot for 11-607 and 11-614 Sockets

4 & 5-POLE CONNECTORS

4-POLE SOCKET

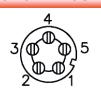


4-POLE PLUG



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 &
	4	Red	Brake Lights
В	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 shakes 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





11-403 Plug with cable guard



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.





11-410 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.



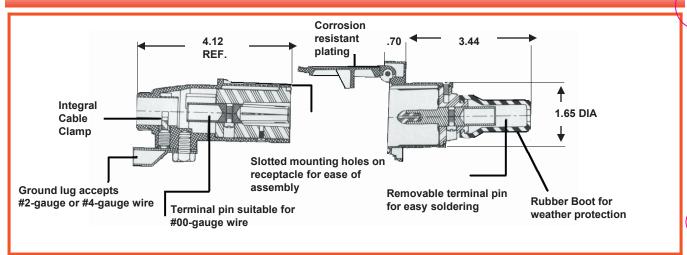
11-502 Connector socket

11-409

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.





TWO POLE CONNECTORS

12-801

2 Pole Socket, 200 Amp service. One pole positive, one pole negative. Terminals accept 4 gauge cable.



12-800

2 Pole Plug with cable guard. 200 Amp Service. One pole positive, one pole negative. Terminals accept 4 gauge cable.

CONNECTOR ASSEMBLIES

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.



2-Pole Complete Assembly, 18 gauge wire.

FLAT TYPE



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

6-Pole Complete Assembly 18 gauge wire.

SQUARE TYPE



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



12-600

12-300 3 Way Male to Female 12" Loop



12-400: 4 Way Boot Cap

12-401: 4 Way Flat Female 12" **12-425:** 4 Way Flat Female 48"



12-500: 5 Way Flat Female 60"



12-501: 5 Way Flat Male 60"



12-421: 4 Way Flat 12" Loop

12-412: 4 Way Flat 24" Loop

12-422: 4 Way Flat 36" Loop

12-423: 4 Way Flat 48" Loop **12-413:** 4 Way Flat 60" Loop

12-414: same as 12-413 with boot covers (all parts above are 4 Way Male to Female)



12-418: 4 Way Flat Male 12"

12-424: 4 Way Flat Male 48"

12-419: 4 Way Flat Male 12" Wishbone

12-405: 4 Way Flat Male 24" Wishbone

12-415: 4 Way Flat Male 36" Wishbone **12-417:** 4 Way Flat Male 48" Wishbone

12-402: 4 Way Flat Female 48" Wishbone

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 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



11-893 Socket



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

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 Trucks when used with 11-933 Adapter
- Mates with Pollak® Socket 11-893





7-POLE CONNECTOR

12-706

Trailer End

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

/	
12-705E	Complete Set (12-707E and 12-706E)
12-706	Trailer-End Only Plug
12-707E	Car-End Only Socket
12-709	12-705E Plug & Socket with 12-711U Bracket
12-712EV	12-707E 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 RVI standards

Car End

12-702 Trailer End

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 RVI standards.



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.

RECOMMENDED WIRE GAUGE				
No.	. Color Gauge		Description	
1	White	8	Ground Return	
2	Blue	12	Electric Brake	
3	Green 14 Black 8		Tail, License and Running Lights	
4			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		14	Reefer (Tag) or Stop	



12-907 Car End

12-906

Trailer End

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

12-905 Series (9-Pole Set)

MOUNTING BRACKETS

Right Angle Mounting Brackets for: 11-893. 12-703, 12-707, 12-907 NEW – Includes #11-926 mounting hdwre.



12-711U 12-701U Black Epoxy Constructed of Coated for protection against rust and corrosion

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
- 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

11-938 T-Connector

- Same as 11-932 but includes OEM style 7-way Socket









7 Way Harness Adapter



- T-Connector Kit with OEM style 11-893 Socket
- Adaptor for 5th Wheel & Bumper Mount Socket



Cable Assembly (Repairable)

Pollak® Plastic Trailer End 12-706 with 8 ft. of Cable.

14-116: same as 14-117 but with 3 ft. of Cable

14-227: Overmolded

Trailer End – RV Plug with 8' Harness



11-934

- US Car adapter snaps in
- 3' Harness for easy wiring
- Protects warranty by leaving original OEM harness intact



Trailer Tow Accessories



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

Adapters





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



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



6 Way Round Male to 4 Way Flat Female Flex Adapter





4 Way Flat Plug to 7 Way Round Metal Socket



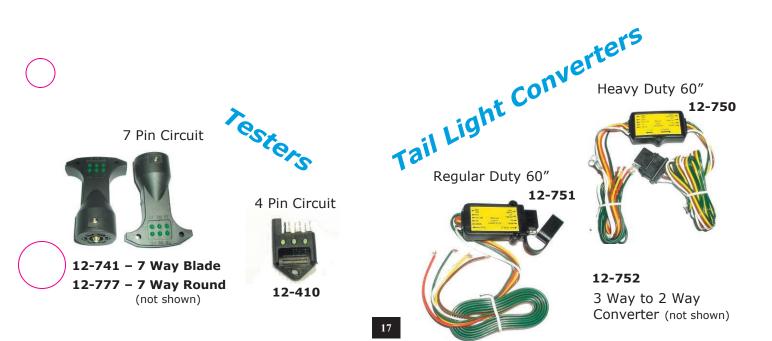
6 Way Round Plug to 5 Way Flat Adapter



7 Way Pin Plug to 4 Way Flat Adapter



12-727: Nylon 7 way RV plug to 7 Way HD Socket 12-728: Nylon 7 Way RV Plug to Zinc 7 Way HD Socket





SWITCHES

50 AMPS 6-24 VOLT TOGGLE SWITCHES

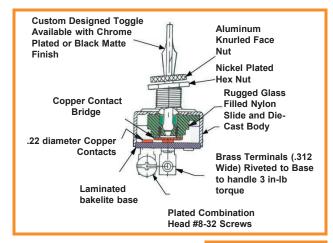
Pollak® Toggle Switches designed for many high-current applications. Oversized internal copper contacts will carry up to 50 AMP current loads. Provides the longest possible service life. (Note: Quick-Connect Blade terminals will carry 30 AMPS.)

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

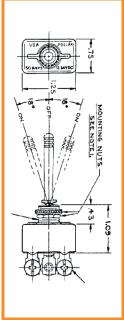


34-220 Long Chrome Handle #8-32 Screw Terminal





\	Part No.	Circuitry	No. of Terminals	Terminal Type	Handle Length	Handle Type	DC Volts	DC Amps
)-			S.P.S.T (SINGL	E POLE – SINGL	E THROW)			
	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
			S.P.D.T (SINGI	LE POLE – Double	e THROW)			
	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
Ϊ.	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



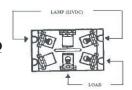
NYLON HANDLE DECORATOR STYLE 20 AMPS AT 12 VOLTS DC TOGGLE SWITCHES

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



34-5860

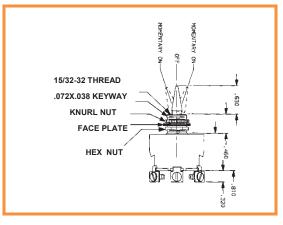


See page 46 for information On the EZ-ELD (80-100) Electronic Logging Device



Part No.	Circuitry	No. of Terminals	Terminal Type	Handle Length	Handle Type
	S.P.S.T (S	INGLE POLE -	SINGLE THR	OW)	
34-581Q	On-Off	2	Blade	Std. 11/16"	Black
34-586	On-Off	4	Screw	Std. 11/16"	Lighted

Q = Quick Connect .250 Terminals



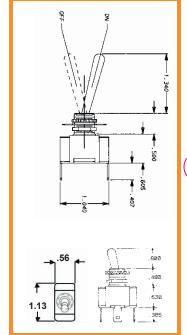
^{*} Available in E/EP versions only

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	Termina 1 Type	Handle Length	Handle Type	Notes
		S.P.S.T (SING)	LE POLE – SIN	GLE THROW)		
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	
	S.P.	D.T (SINGL	E POLE – DO	OUBLE THROW)		
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	
34-653	On-Off-On	3	3 Wire	Std. 11/16"	Chrome	Coated Leads
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	
31 370				NGLE THROW)	Cinome	
34-574	On-Off	4	Screw	Std. 11/16"	Chrome	
34-574Q	On-Off	4	Blade	Std. 11/16"	Chrome	
		D.T. (DOUBI		OUBLE THROW		
34-654	On – Off - On	6	6 wire	Std. 11/16"	Chrome	Coated Leads
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
2 I-DISLY	OII-OII-OII	J	Diade	Long 1.3	Cinonic	Headlamp Switch





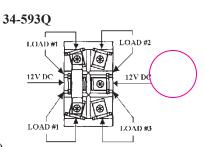


34-571L 34-592Q Long Handle Jumper Blade Screw Terminals Style

WIRING DIAGRAMS

34-591Q (-) VDC (-) VDC

(+) POS#1 TOGGLE UP (-) (-) POS#2 TOGGLE DOWN(+)



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



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



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.



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.



2 Position Toggle Switch. 10 Amps @ 12V

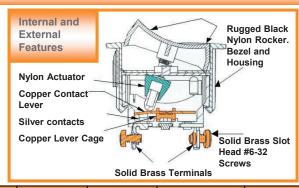


34-504 Face Plate On-Off

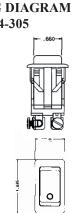
See Page 23 For Wiring Diagrams, Terms and Tips.

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.



	WIR	ING
		34
LAMP		
	0	
LINE		10
LOAD ◀		



		No. of				
Part No.	Circuitry	Terminals and Type	Actuator	Lens	Notes	Application
34-301	On-Off	2 Screw	Black			Signaling Switch, Day
34-308	On-Off	2 Blade	Black			Signaling Switch, Day
		S.P.S.T. (SING	LE POLE – SINGI	LE THROW) WIT	H PILOT LIGHT	
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	
	-	D.P.D	.T. (DOUBLE PO	LE – DOUBLE TH	HROW)	
34-311	Off-On-On	4 Blade	Black			Two Speed Windshield Wiper
34-359	On-On	6 Blade	Black		Reversing	Selector Valves, Fans, Booms
	D	.P.D.T. (DOUBLE	POLE – DOUBLE	E THROW) WITH	H DUAL CIRCUITRY	
34-312	High-Low-Off	6 Blade	Black		Dual Actuators	





34-305

High-Low-Off

SWITCHES

SEALED ILLUMINATED ROCKER SWITCHES

- 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.

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



(Panel cut-out dimension: .83 "W x 1.45" H)



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.

34-255	Panel Gasket Seal
34-258	Mounting Bracket End Piece
34-259	Mounting Bracket Middle Piece
34-260	Single Mounting Bracket



WEATHER RESISTANT TOGGLE SWITCH

- 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.

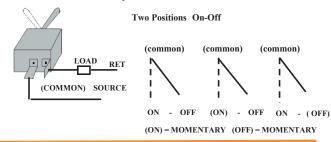


TOGGLE SWITCH GUARD

- 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.

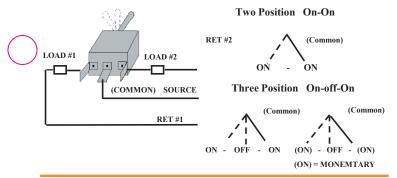
S.P.S.T, (Single Pole/Single Throw)

A two terminal switch which opens or closes one circuit.



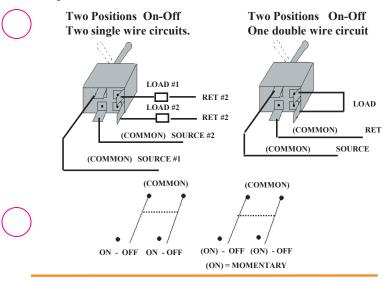
S.P.D.T. (Single Pole/Double Throw)

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.

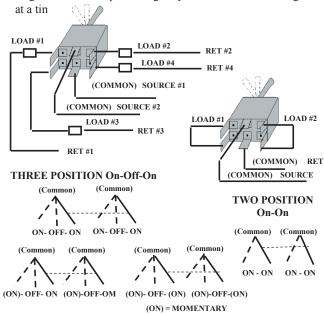


SERVICE TIP

- 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

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



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 POL£ 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. **MONENTARY** 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.

SWITCHES - PUSH-PULL

35-331 Same as 35-306

with Red Metal Knoh

35-330

Same at 35-306 with Black Metal Knob

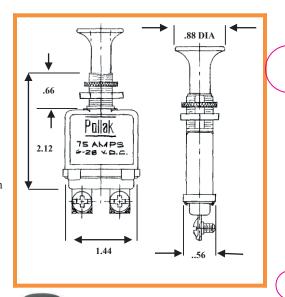
35-319

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



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



35-334

35-335 35-334 35-335

12 VOLTS - 50 AMP D.C. 2 POSITION S.P.S.T. OFF-ON Green LED – lighted in on position 12 VOLTS - 30 AMP D.C. 2 POSITION S.P.S.T. OFF-ON



12 VOLTS - 30 AMP D.C. 3 POSITION OFF-ON-ON Two separate circuits



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.



MARINE

3 POSITION

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

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.



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)



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.

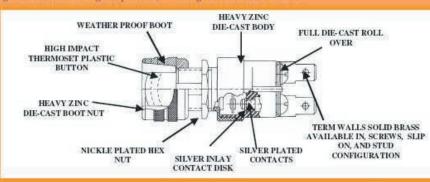
Operation: 50,000 Cycles Mounting stem: 5/8-32 Thread Accommodates panels up to 1/4" thick.



@ 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"
- 24-360 WEATHER AND DUSTPROOF. Same as #24-359 except with #25-358 Cap and Face Nut, to seal out Weather and Dust.
- 24-362 (Not Shown). Same as #24-359 except with #25-372 Protection Collar.
- 24-363 (Not Shown) Same as #24-392 except with #25-358 black rubber boot.
- 24-373 (Not Shown) Same as #24-359 except with 2 Male Blade "quick connect" terminals.
- 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.







24-392

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



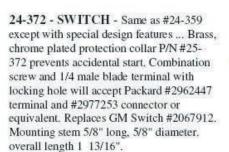
24-394

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



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

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





SWITCHES

BOOT NUT ASSEMBLIES

WEATHER and DUSTPROOF Neoprene rubber type Boot Nut Assemblies. With 5/8-32 thread, Can be used on #52-611 and #33-200 and on other Momentary Switches with this Mounting Stem



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.



25-358

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



Yellow boot with symbol.



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

52-613

Same as 52-611 except with 25-358 boot nut and PVC coated body for weather and dust protection. 14" wire loop.

52-600

25-352

Red

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)



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 Off (Push to On). Mates with Packard # 15300027

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.

SEALED PLUNGER SWITCHES

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



52-622

52-620

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.



52-623

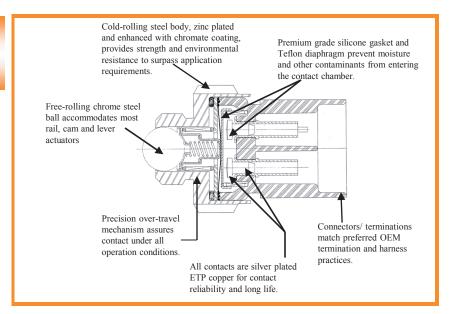
Door Jamb Switch to accept two Bullet terminals. 5 Amps at 12V. REPLACES: Ford OA1-13713, BOA-13713, B9MF-13713A, C3AZ-13713A.

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 takeoff 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.



Normally Open - Exposed 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	
7_	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



Special Features	Mating Connector	Connector	Make/Break	Free Position	Hex	Thread	Part No.
	029S4092	Packard 56 Series	.406 / .391 (10.31-09.93)	.421 / .416 (10.69-10.57)	7/8	9/16-18	21-363
	C0AF-14A121-A	Ford Automotive Type	.408 / .390 (10.36-09.93)	.421 / .416 (10.69-10.57)	7/8	9/16-18	21-364
	12015792	Packard Weather Pack	.406 / .391 (10.31-09.93)	.421 / .416 (10.69-10.57)	7/8	9/16-18	21-370
	E2EB-14A464-AB	Ford Automotive Type	.408 / .390 (10.36-09.93)	.421 / .416 (10.69-10.57)	7/8	9/16-18	21-400
Teflon Tape Thread Sealant	D6ZB-14A336-BA	Ford Automotive Type	.435 / .415 (11.05-10.54)	.460 / .450 (11-68-11.43)	M22	M14*1.5	21-443
	12052644	Packard Metri-Pack	.406 / .391 (10.31-09.93)	.421 / .416 (10.69-10.57)	7/8	9/16-18	21-465
	12103784	Packard Weather Pack	.405 / .380 (10.29-09.65)	.433 / .417 (11.00-10.59)	7/8	5/8-18	21-491
	12052644	Packard Metri-Pack	.561 / .543 (14.25-13.79)	.577 / .567 (14.66-14.40)	M22	M14*1.5	21-492
Teflon Tape Thread Sealant	12015792	Packard Weather Pack	.406 / .391 (10.31-09.93)	.421 / .416 (10.69-10.57)	7/8	9/16-18	21-532
Teflon Tape Thread Sealant	12015792	Packard Weather pack	.960 / .945 (24.38-24.00)	.980 / .970 (24.89-24.64)	7/8	M16*1.5	21-595

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:

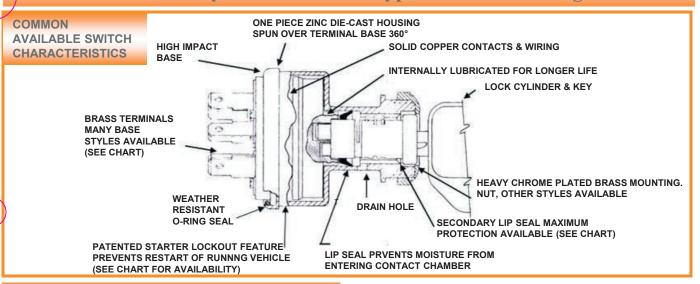
Normally Closed - Encapsulated with Wire Leads



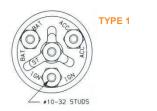
Part No.	Thread	Hex	Free Position	Make/Break	Connector	Mating Connector	Special Features
21-478	9/16-18	7/8	.421 / .416 (10.69-10.57)	.408 / .390 (10.36-09.93)	Packard Weather Pack	12010973	
21-482	9/16-18	7/8	.421 / .416 (10.69-10.57)	.408 / .390 (10.36-09.93)	Packard Weather Pack	12010973	Assembled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

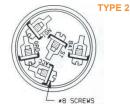


BASE TYPES & CONNECTIONS



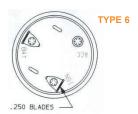
















For Specific Applications Consult Factory

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

Typical Ratings @ 14 Volts DC (50,000 Cycles) Accessory Start Terminal Terminal Terminal 75 Amps make

20 Amps Break

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

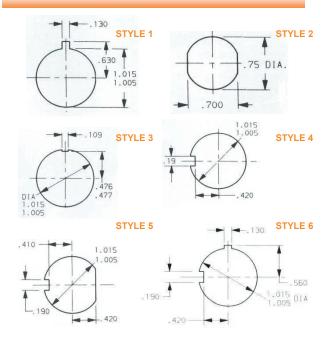
30 Amps

(Inductive)

For Specific Applications Consult Factory

8 Amps

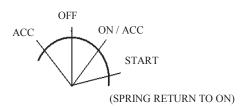
MOUNTING HOLE PATTERNS



4-POSITION SWITCHES

FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only







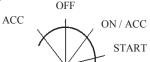


Base Type	Part No.	Starter Lockout	Key Logo	Key code	# of Lip Seals	M/H/P	Remarks
1	31-103	N	Pollak	Various	0	2	ACHIAI RS
1	31-103	N	Pollak	PK556	0	2	
1	31-104	Y	Pollak	Various	0	2	
1	31-103	Y	Pollak	PK556	0	2	
1	31-100	N	Foliak		0	1	No Base Hardware Supplied
1	31-110	N N	Pollak	No L/Cyl Various	0	1	No Base Hardware Supplied No Base Hardware Supplied
		N N	Poliak		0	1	
1	31-111		D-II-I-	No L/Cyl			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.

4-POSITION SWITCHES

FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only



(SPRING RETURN TO ON) (HOUSING TIED TO GROUND TERMINAL)



(HOUSING TIED TO GROUND TERMINAL)								
	Base Type	Part No.	Starter Lockout	Key Logo	Key code	# of Lip Seals	M/H/P	Remarks
	1	31-527	N	Pollak	D250	2	*	Spring return aux. / glow plug warmer
	1	31-537	N	Pollak	Lever	2	*	Spring return aux. / glow plug warmer
	2	31-112	N	Pollak	PK556	0	2	Special Hardware Clips
۱	2	31-257	Y	L/Cyl Mfg	D250	1	5	O-Ring Sealed Base, Spc. Hdw Clip
4	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
	3	31-498-01	N	None	Various	0	3	Supplied with high durability double cut L/Cyl & keys
)	3A	31-139	N	L/Cyl Mfg	Various	0	Spc.	Bezel Mtg
	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, Mtg 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



ACC OFF ON / ACC

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 Seperately
4	31-600	N	Pollak	Various	0	.75" D	
4	31-601	N	Pollak	PK556	0	.75" D	

3 POSITION SWITCHES

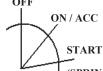
FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only









(SPRING RETURN TO ON) (HOUSING TIED TO GROUND TERMINAL)

Base Type	Part No.	Starter Lockout	Key Logo	Key code	# of Lip Seals	M/H/ P	Remarks
*	31-267	Y	L/CYL Mfg	D250	1	5	Black Mounting Nut, 4 Screw Terminal 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







(SPRING RETURN TO ON)

Base Type	Part No.	Starter Lockout	Key Logo	Key code	# of Lip Seals	M/H/P	Remarks
1	31-253	N	Lever	none	1	5	O-Ring Sealed Base
1	31-609	N	Blank	Various	0	2	
*	31-309	Y	L/CYL Mfg	D250	1	5	10 Blade Terminal, No Ground Pin
3	31-337	Y	Pollak	D250	1	5	
7	31-223	Y	Lever		0	5	Special PROOF terminal

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

M/H/P = Mounting Hole Pattern

BASE TYPES



TYPE 2





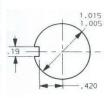


MOUNTING HOLE **PATTERNS**

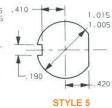


.700 STYLE 2





STYLE 4



STYLE 1

2-POSITION SWITCHES

FUNCTIONS & POSITIONS

Key Removable in "Off" Position Only







31-604

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.

OFF (MAGNETO GROUNDED)





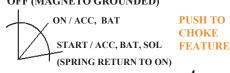
33-104

Special long bushing allows mounting in panels up to 1 1/4" thick. Replaces - Johnson-Evinrude Numbers 386496, 379047, 378238.

33-107

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.



M-M Grounded-10 Amps Inductive

B-A 5 Amp

B-S 10 Amp

B-C 1 Amp (33-105 Only)

OFF (MAGNETO GROUNDED)

ON / ACC, BAT

START / ACC, BAT, SOL

(SPRING RETURN TO ON)



33-150

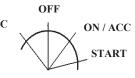
Delrin, Stainless Steel, 6 terminals, special weather-proofing seal and drain holes. Furnished with face nut and brass screws. Various key changes for security. Mounting bushing 1 1/4" thick. Length = 1/2" long. Switch mounts in panels up to 1/4" thick Replaces Johnson-Evinrude numbers 386496, 379047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

33-150-100 – blank key for 33-104/107/150

IGNITION STARTER SWITCHES

(Special Applications)







31-527

SPECIAL 4 POSITION IGNITION SWITCH

Specially designed with glow plug 'warm' position.

31-537

SPECIAL 4 POSITION IGNITION SWITCH

Same as 31-527 except with lever. Specially designed with glow plug 'warm' position



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)

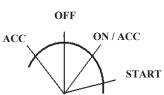
Unique Features

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



52-800 SPECIAL Rotary Reversing Switch 12 Volt 50Amp DC 3 Position On-Off-On





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, 31-242, 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, 33-107 & 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.

51-902EP

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

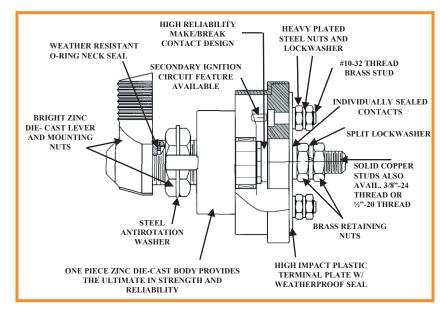
For battery circuit only. Does not disconnect alternator or generator field circuit. On vehicles equipped with alternators/engine must be shut off to avoid potential damage to alternator diodes. (See 51-904EP)

- 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.

51-927EP 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)



51-915 EP

Same as 51-902EP except with .25 antirotation indexing post.

51-916EP

Same as 51-915EP except with two encapsulated removable keys (31-332).





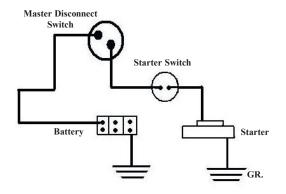


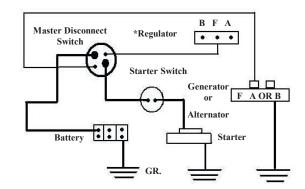
WIRING DIAGRAM FOR S.P.S.T. MASTER DISCONNECT SWITCH

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

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

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



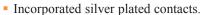


NOTE: Hex nuts against base Must_remain stationary and Must not be tightened or loosened. Secure power cables to mounting surface no greater than 10" from switch mounting

51-904EP

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.



- 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).



51-918EP

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"

51-918EP

Same as 51-904EP except with .25" diameter anti-rotation indexing post.

51-919 EP

Same as 51-918EP except with two encapsulated keys (31-332).



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.

ACCESSORIES



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.



51-308EP KIT

Replacement Zinc Die-Cast lever and Zinc Plated set crew for Pollak® Master Disconnect Switches.



Special flange plate and lever to accept a padlock for many lockout/tag-out safety regulations.



31-332

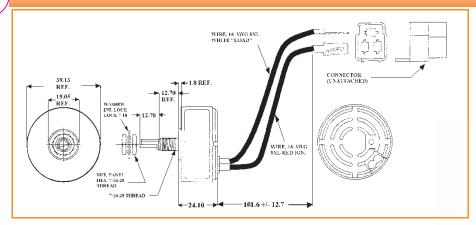
Encapsulated Keys with Pollak® logo. Fits #'s 51-916EP & 51-919EP Disconnect Switches.



51-919EP

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.

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 ONLY on 12 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

^{**} Installation sheet included for connecting terminals to connector.

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

Contact Factory for availability of additional solenoids.

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

52-307-01 12V, 100 Amps, Continuous Duty, Insulated, with hardware. UL listed.

52-312-01 Same as 52-307-01 except grounded with three terminals (not shown, not UL listed).

52-315 Same as 52-307-01 except coated with protective grey plastic coating. (Dust & Moisture Resistant)

52-324-01 Same as 52-307-01 except 24 Volt, continuous duty. 100 Amps, (not shown, not UL listed)

52-337 – 12V, 100 Amp continuous duty with diode (see page 50 for more complete description).

BAT.

52-307-01



52-315



52-337

52-327 12 Volt, continuous duty. 100 Amps

52-336 36 Volt, continuous duty. 100 Amps

52-329 12 Volt, continuous duty. 200 Amps

52-339 24 Volt, continuous duty. 200 Amps







Double Pole Single Throw

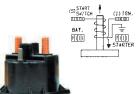
52-330 12 Volt. 2 circuits. SPDT, Normally Open /Normally Closed, continuous duty. 100 Amps, insulated

52-340 24 Volt version of 52-330



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

52-305-01 UNIVERSAL - 12-V Applications - Grounded Base, Flat Bracket, Internally grounded to housing, other end connected to small terminal.



52-305-01

52-331 (Replaces 52-304). 12V, 600 Amp make, 200 Amp break, Normally off, SPST, one circuit Off/On, Short Case.

52-332 24V, 2 Min Cycle version of 52-331



52-328 12V, 100 Amp, SPST, Insulated, Short Case







52-333 Heavy Duty, SAE J1171 Marine Rated, 10 Min. Duty Cycle

52-334 Heavy Duty same as 52-333 but not Marine Rated







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. Pits panels .030" - .070" thick. Mounting hole .850 diameter. max., 5 Amps @ 12V. REPLACES: Ford OA1-13713, BOA-13713, B9MT-13713A, C3AZ-13713A.

52-620

52-633

hardware.



52-620 with mounting

52-625 – Shell for 52-622

52-622

52-626 – Boot for 52-622

52-627 – Pin for 52-622





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.

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.) Pressure switch

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.



52-252

Floor Mounted Type. Mounting holes 1-5/8" on center, 7/32" diameter., 3 Special Terminals, for Plug connection.



52-253

Special Floor Mounted Type. Mounting holes 1-6/8" on center, 9/32" diameter., 3 Special Terminals for Plug Connection.

CIRCUIT BREAKERS



CIRCUIT BREAKERS

What are Circuit Protection Devices and how do they work?

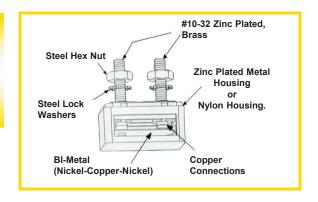
Circuit Protection Devices are manufactured for use in multiple power strips, boats, recreational vehicles, battery charges, welding equipment, portable generators, agricultural equipment, trucks, passenger and school buses and off-road construction equipment.

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

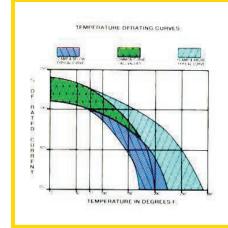
<u>Type 3</u> circuit protector introduces a noncurrent carrying object between the contacts when they open. To reset the contacts, an external button or lever must be activated to return to normal operation.

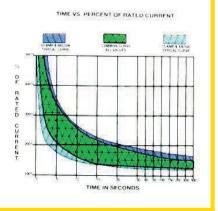
Sizing A Circuit Protector

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, Trailering 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..

Ampere Rating	Plastic Base 12 VDC	Metal Base 12 VDC	
10	54-110PL	*	
15	54-115PL	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			

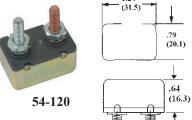
NOTES: PLASTIC VS METAL

- 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.

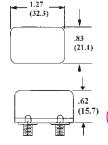
NOTES: 24V VS 12V CIRCUIT BREAKERS

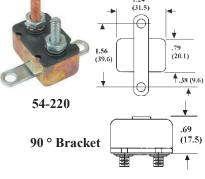
A 24V Circuit Breaker may be used in a 12V application because of the thermal metals used in assembly. However a 12V Circuit Breaker in not recommended for 24V since the materials are Heat affected...not current affected.

.69 (17.5) Terminal Options – Battery Terminal .66 (16.8) has yellow dichromate plating Aux Terminal = Zinc Plating TWO 10-32 STUDS; .66 (AUX & BAT) METAL COVER PLASTIC COVER (32.3)



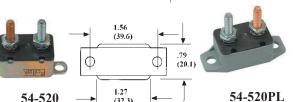




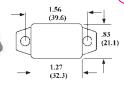




1.56 (39.6) 90 ° Bracket



(32.3)





54-520

Circuit Breakers - Type II

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 \times .40" (10.03 mm) W \times (.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 100th 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



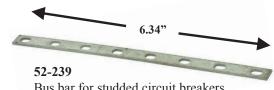
MOUNTING BRACKETS

Rugged steel brackets with detents permit simple snap-in of 54-115 thru 54-150 (Type 1) 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"



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



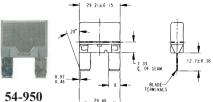
7-Breaker Junction box

L 7..5" X W 3.75" X H 2..5"

CIRCUIT BREAKERS - TYPE II

Maxi-Style Plug-In

OEM style replacement circuit breaker for Ford, Paccar, & Freightliner Body= (29.mm) L x (8.90mm) W x (21.6mm) H Blades= (12.7mm) L



54-951

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

Blade Terminals

54-950

Style

Generic

Generic

Ford HD 8

Ampere

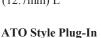
Rating

20

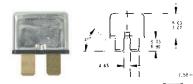
30

30

A	ATO STYLE METAL: TYPE II-Non-Cycling-Blade Termi				
	Ampere Rating	Blade Terminals	Style		
	10	54-953	Ford HD 8		
	15	54-954	Ford HD 8		
	20	54-955	Ford HD 8		



OEM style replacement circuit breaker for Ford Class 8 Vehicles Body= (29.mm) L x (8.90mm) W x (21.6mm) H Blades= (12.7mm) L



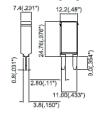
54-956 MINI BLADE METAL: TYPE II - Mon-Cycling-Blade Terminals

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

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





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 – 24VDC

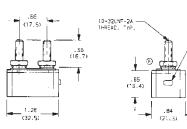
Operating Temperature: -10°F (-23°C) to 150°F (65°C). Storage Temperature: -20CF (-29°C) to 200°F (93°C). Applications: Battery charges, trucks, buses, RV's,

trolling motors, etc.

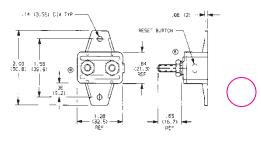
Ampere Rating	Plastic Plastic w. 90° Brack		Maxi-Style
10	*	*	54-311PL
15	*	54-616PL	*
20	*	*	54-321PL
25	*	*	*
30	54-630PL	54-631PL	54-331PL
40	54-640PL	54-641PL	*
50	54-650PL	54-651PL	*

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

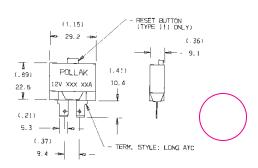








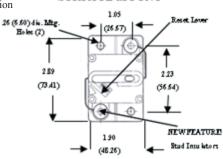




CIRCUIT BREAKERS - HIGH AMP

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

SURFACE MOUNT



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: **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).

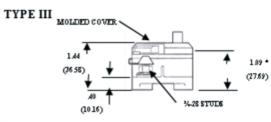
Storage Temperature: 15° to 250° F, (Available in other amperages upon

request - 50 to 150 Amps).

Ampere Rating	Type I Auto Reset Surface Mount	Type I Auto Reset Panel Mount
60	54-850PL	54-860PL
80	54-853PL	54-863PL
100	54-851PL	54-861PL
120	54-854PL	54-864PL
150	54-852PL	54-862PL
200	54-855PL	*
250	54-856PL	*

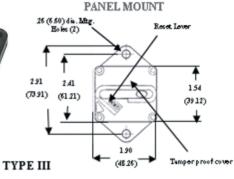
Ampere Rating	Type III Switchable Manual Reset Surface Mount	Type III Switchable Manual Reset Panel Mount
60	54-870PL	54-880PL
100	54-871PL	54-881PL
150	54-872PL	54-882PL
80	54-873PL	54-883PL
120	54-874PL	54-884PL

Ampere Rating	Manual Reset Only Surface Mount	
200	54-875PL	*
250	54-876PL	*



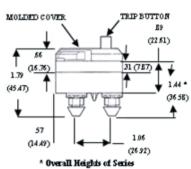


Type I Auto Reset



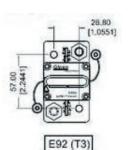


Type III Switchable





Manual Reset Only



3/8" stud size max 250Amp wide (longer) surface new model



EP IT SIMPLE WITH EZ-EL

ELECTRONIC LOGGING DEVICE



With the FMCSA's upcoming ELD legislation affecting an estimated three million drivers on the road today, and the December 2017 deadline approaching, it's time for fleet operators to get ready for the new rules and regulations.



An easy solution

We know you're looking for an easy and cost-effective solution that keeps you compliant when this legislation comes into force.

So that's exactly what we've developed. The EZ-ELD will. help you stay the right side of the new rules, offering a cost-effective solution to help track and manage your drivers' Hours of Service

Once fitted with an EZ-ELD, your trucks will be fully compliant with the FMCSA's ELD regulations, without the need for added extras or further investment.

A quick fit

The EZ-ELD's installation is an easy "plug and play" process. The unit is simply fitted to the trucks diagnostics port, the driver securely connects to the device with the mobile app and that's it, they're ready to hit the road.

Unlike competitor products, you don't need to worry about the type of OBD port you have. You'll get three interchangeable connectors with the device, making it easy to switch between vehicles and removing the need to buy another unit if you change or upgrade your truck.

In the driver's seat

With the EZ-ELD, everything is about simplicity. It's in the office where our software comes into Drivers will find the smartphone or tablet interface easy to navigate and effortless, leaving them to focus on doing what they do best. And when your drivers are out on remote, long-haul drives where connectivity can be an issue, the EZ-ELD has you covered. It's able to store up to 6 months of data on the device.

For drivers working across multiple vehicles in the fleet, EZ-ELD comes with "Scan and Drive" technology. Drivers simply scan the QR code linked to the unit, their smartphone will. automatically link with the vehicle and they are ready to go.

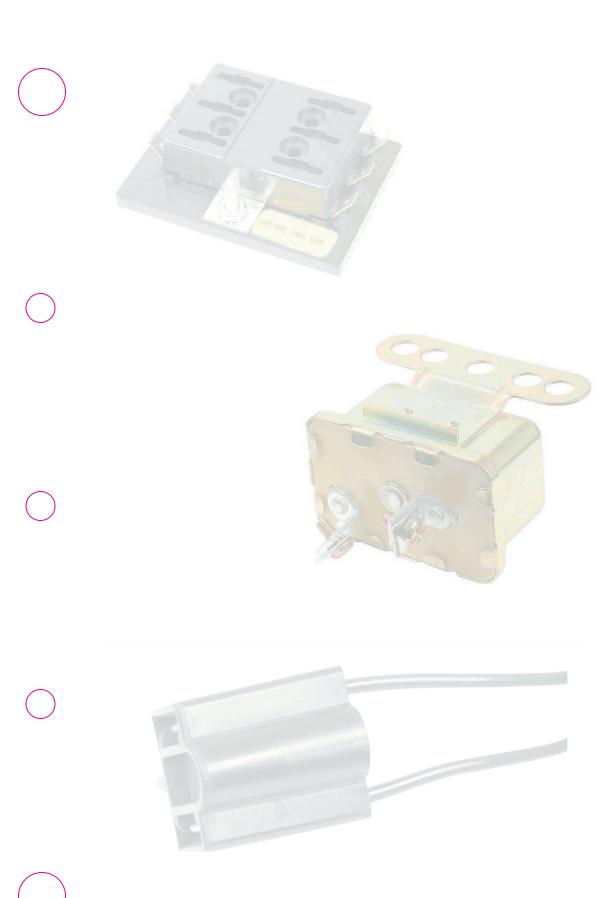
Back in the office

it's own. You can easily manage different drivers and devices in the same fleet simultaneously. To help keep your business moving, we've made additional storage available on the EZ-ELD software. We've also added an instant messaging feature to help you stay in touch with drivers out on the road.

- Only ELD solution that comes with interchangeable connectors included
- Unique Scan and Drive™ truck pairing
- . Quick and simple "Plug and Play" installation
- FMCSA certified
- . No hidden fees and no contract
- . Super-simple user interface for drivers via mobile app, with Android & iOS compatibility
- \$15/month subscription INCLUDES DVIR and IFTA reporting

- OPS vehicle positioning for real-time tracking
- . 6 months of data storage on device
- Unlimited drivers per device
- · Free installation, set up and training and with customer service available from a company with more than 50 years' experience with Commercial Vehicle Fleets

To get a simple, secure and stress-free ELD solution for your fleet, Buy the Stoneridge EZ-ELD



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, 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. Blocks are molded glass-filled thermoplastic, polyester clips are spring-bronze; Alboloy-plated.

Junction Boxes



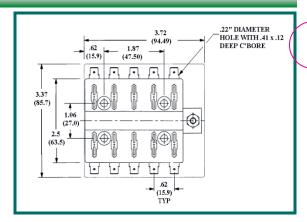
52-248 10-Terminal Junction Box



7-Circuit Breaker Junction Box



52-259 7-Terminal
Junction Box



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 Center Spacing: 7/16"

Wiring: Terminals will accept maximum wire size of AWG # 2. Terminal Screw Size: #6-32 philslot 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

52-256

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.



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".

52-777

Large BLACK Button, Chrome Plated Housing.

52-661

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





STOP LIGHT SWITCH

MECHANICAL. REPLACES DR-1997901, 1997915 & 1997922



Look What's NEW...



Pollak®NEW 12 Volt Solenoid, Includes Diode



52-337

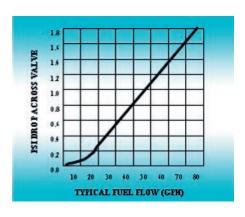
When power is applied to the relay coil, a magnetic field is created and energy is stored in the coil. When power is removed, the magnetic field collapses causing a reverse voltage to be generated (it's called inductive kickback or back EMF). The back EMF can easily reach 200 volts. The diode will absorb the reverse voltage spike. This voltage, if not absorbed by the diode, will cause premature failure of switch contacts or feed back to other crucial vehicle electrical parts.

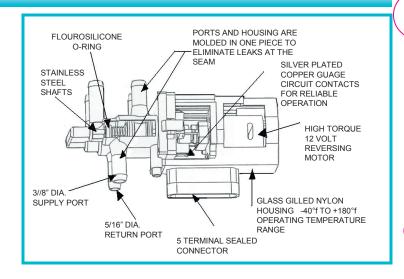






FUEL TANK SELECTOR VALVES





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

42-308 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.



42-201 Faceplate (Supplied in 42-300)
Material: Bright Nickel Plated
Steel Legends: AUX, MAIN



25-371 1/2 Toggle Boot

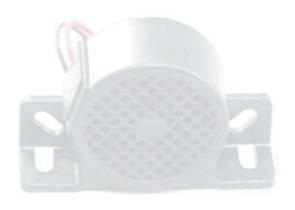
Same as Toggle Boot #25-370 except allows Toggle Handle (of any length) to protrude. Accommodates all toggle lever diameters from .155" - .240" including all Pollak toggles except nylon handle series.



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.





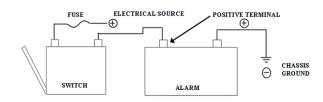


BACK-UPALARMS

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

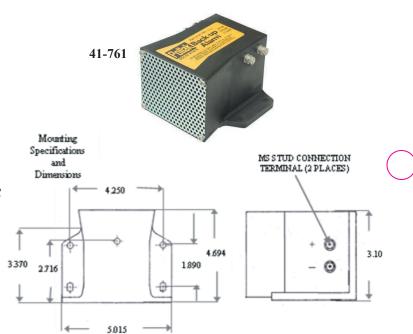
<u>Heavy-duty adjustable unit</u> for largest construction and mining vehicles, graders, dumps, crawlers, tractors, belly dumps, etc. Designed for high performance, the most compact lowest cost unit of this type available.

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





41-802

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



41-706

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

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

BACK-UPALARMS

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, 41-821& 41-822

- Slotted mounting 'drop in' replacement
- Wire leads enhance corrosion protection (from traditional studs)
- New design smaller size, less heat, longer life
- Consult factory for additional models

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

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

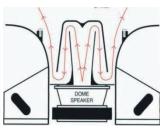
SPECIFICATIONS:

- 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.

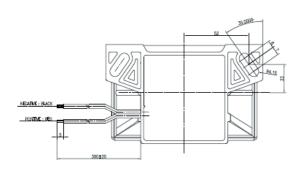
FEATURES:

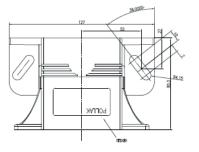
- Rugged Glass-Filled Nylon Housing
- Steam cleanable/Pressure Washable
- Low Current High Efficiency Dome Speaker
- Meets extreme requirements of off-highway equipment
- Operates in temperature ranges (-40° F to +185° F)
- Can be used on positive and negative ground vehicles





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:

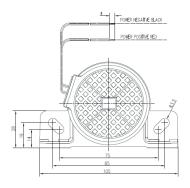
- Single level...97dB(A) ± 4 @ 4'
- Multi-voltage -12-24 volts
- Voltage spike protected
- Reverse polarity protected
- Current draw less than 0.3 amps
- Solid state electronics
- Certified conformance to S.A.E. J994, type C
- Meets State, Federal and U.S. Army Corps of Engineers' requirements
- Meets 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

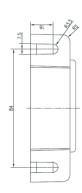
FEATURES:

- 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

41-821 (Not Shown) Same as 41-820 but with Stud Terminals







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.

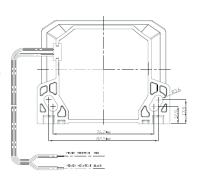
SPECIFICATIONS:

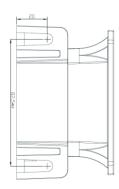
- Single level...107dB(A) ± 4 @ 4'
- Multi-voltage-12-24 volts
- Voltage spike protected
- Reverse polarity protected
- Current draw less than 0.3 amps
- Solid state electronics
- Certified conformance to S.A.E. J994, type B
- Meets State, Federal and U.S. Army Corps of Engineers' requirements
- Meets 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



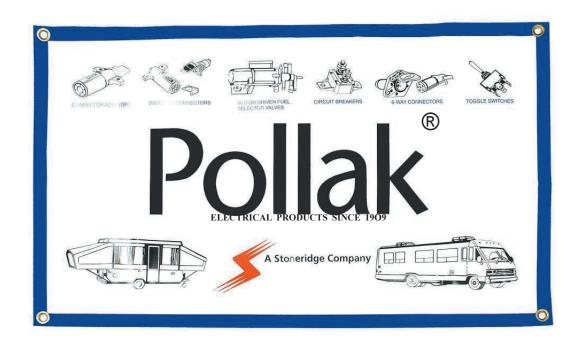


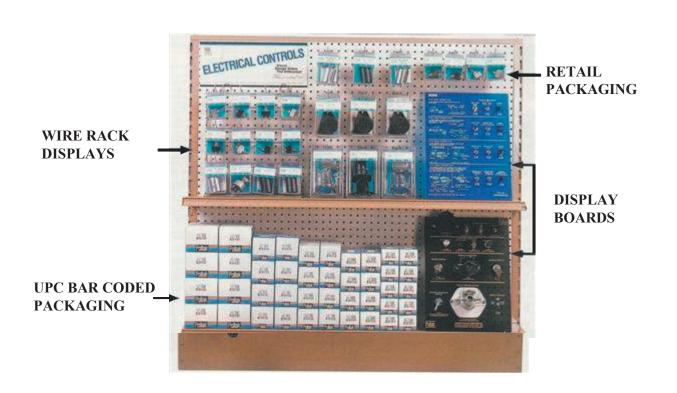






MERCHANDISING DISPLAYS





MERCHANDISING DISPLAYS

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)



#5	3	1	1	7	

53-117 FLE	EET DISPLAY BOARD
Assortment co	ontains 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 41-820	97db Back-Up Alarm
P/N 51-902	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











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.



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



ELECTRICAL CONTROLS SINCE 1909



WIRING COLOR CODES

	RECREATION VEHICLE							
	7	- POL	LE CONNECTO	RS				
No.	Col	or	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	Brow n	Stop & Right Hand Turn Signal		14 Ga				
7	Yellow		Auxiliary Circuit	14 Ga				

	HEAVY DUTY TRUCK								
	7 - POLE CONNECTORS								
No.	Col	or	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	Brow n		Tail, Rear Clearance, Marker, and License Plate Lamps	12 Ga					
7	Blue		Auxiliary Circuit/ABS	10 Ga					

	UNIVERSAL 6 - POLE CONNECTORS						
No.	Co	lor	Circuits				
1	White		Ground Return				
2	Brow n		Tail Lights				
3	Yellow		Left Turn				
4	Red		Stop				
5	Green		Right Turn				
6	Blue		Auxiliary Circuit				

	UNIVERSAL 4 - POLE CONNECTORS					
No	ο.	С	olor	Circuits		
	1	White		Ground Return		
2	2	Green		Right Turn & Brake Lights		
3	3	Yellow or Red		Left Turn & Brake Lights		
4	4	Brow n		Tail Lights		

Note: Check all circuits before operating vehicles

WIRE GUAGE 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	Total I	Total length of Cable in Circuit from Battery to Most Distant Lamp									
		2.5	5	10	20	30	40	50	60	80	100	
AMPS	Candle	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft	Ft.	Ft.	
(Appl).	Power	GA.	GA.	GA.	GA.	GA.	GA.	GA.	GA.	Ga.	Ga.	
1.0	6	20	20	20	20	20	20	20	20	20	18	
1.5	10	20	20	20	20	20	20	20	20	18	18	
2	16	20	20	20	20	20	20	18	18	16	16	
3	24	20	20	20	20	20	18	18	16	16	14	
4	30	20	20	20	20	18	16	16	16	14	12	
5	40	20	20	20	18	18	16	14	14	12	12	
6	50	20	20	20	18	16	16	14	14	12	12	
7	60	20	20	20	18	16	14	14	12	12	10	
8	70	20	20	20	16	16	14	12	12	10	10	
10	80	20	20	18	16	14	12	12	12	10	10	
11	90	20	20	18	16	14	12	12	10	10	8	

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

POLLAK® Numerical Part Number Index

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