



Manufacturers of DC electrical and electronic switches and connectors for the vehicle industry



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Cole Hersee

Cole Hersee Co has been manufacturing reliable electrical products since 1924.

This Heavy Duty Catalog describes our complete line, but we can adapt many of these products to order by changing terminals, knobs, by adding seals or by PVC-coating (to name but a few variants). Contact us to discuss the possibilities. Our engineers are on hand to design from the ground up the best switching solution to your application.

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Availability of products:

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- Minimum order quantities may apply to these items. Consult Cole Hersee.

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What's New?

LED Pilot Lights, PL-612 Series

Light never needs replacing. Bezel protects LED from damage, and reflects more light! See page 81



Forward & Reverse Module 24452

Able to handle a hefty current up to 70A, this module is perfect for a multitude of applications. Includes dynamic braking! **See page 64**



Motor Reversing Solenoid 24450

Two solenoids in one, this compact unit is just one of Cole Hersee's many solutions for control of forward and reverse. **See page 44**



SureStart[™] Low Voltage Disconnect Switch, 48510 Series

Automatically disconnects less important electrical loads when battery voltage falls to a level that won't allow the engine to start. Automatically reconnects when battery level is safe.

See section D5, page 39



★ Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



Master Disconnect Switch 75912

Here's the switch for situations where regulations demand that positive and negative are both turned off. It's also useful for switching two high current electrical loads. **See page 35**



Locking Switch 58336

Simple to use, this rocker switch automatically locks in the off position, and needs an extra step to release. **See page 22**



Sealed Key Switches, 95060 Series

A complete series of switches that are suitable for many uses, including ignition. **See page 22**



Two-Pole Power Take-Off 11041-06

Provides a high integrity two circuit path. Commonly used in on-road and off-road vehicles. **See page 5**

Cole Hersee switches. Always lots of choices.

vehicle connectors

A1 TRACTOR-TRAILER CONNECTORS

Heavy duty sockets, plugs and assemblies that withstand the rigors of trucking thousands of miles in dust and dirt, rain and snow, heat and cold, yet maintain the all-important electrical continuity between tractor unit and trailer. With the increased need for more circuits on the trailer comes the need for more poles in the connectors. The 13-pole connector contains added circuits, yet is able to link up with standard 7-pole trailers when necessary. Green connectors clearly indicate dedicated ABS plugs and sockets, yellow identifies a 13-pole connector. Tractor-trailer connectors are also employed in agricultural vehicles.

13-Pole Connectors

Provides six additional tractor-trailer circuits within the dimensions of traditional 7-pole connectors. Adaptable to a wide variety of wiring combinations, including multiplexed circuits. Surpasses SAE J560b performance standards. Conforms to this standard for interchangeability between 7-pole and 13-pole connectors. Distinctive bright yellow identifies 13-pole connectors. Robust glass-filled plastic housings cannot rust or corrode. Ground terminals accept up to 8AWG wire, 7 pole terminals up to 10AWG, smaller 6 pole terminals up to 14AWG.

12300, Socket 🜟

Gasket-sealed socket door is spring-loaded and locks onto the plug. Solid brass contact pins. Rain hood extends beyond the pins to protect the interior. The 5° downward pitch drain channel inside the socket reduces water retention. Three mounting holes on the flange: .33" (8.4mm) diameter, 2.93" (74.6mm) on centers. Includes six 31784 crimp-on connectors to mate with the six smaller pole terminals.



81356 Rubber Boot gives added protection to the terminals. Not included. See page 10.

12301, Plug 🌟

Plug locks into the socket, utilizing the spring-loaded socket door. Spring-grip contacts have self-adjusting spring bands to maintain long-term uniform electrical contact with socket pins. O-ring at the plug end prevents water from reaching the contacts. Strain relief and grommet seal isolates the contacts from mechanical strain, and provides extra moisture protection. Cable retainer maintains secure cable connection. Replaceable interior. Includes six 31784 crimp-on connectors to mate with the six smaller pole terminals.



7-Pole Connectors

Sockets and plugs conform to ATA, RCCC (RP-102), SAE (J560b), FMVSS-121, FIEI TTMA (RP 40-73) standards or recommendations, and are compatible with other standard (J560b) connectors.

Sockets

Ground terminal accepts wires up to 8AWG, other terminals up to 10AWG. Solid brass contacts are aligned to assure proper contact and minimal voltage dr op. Wiring codes are embossed on the insulator. The door is spring-loaded and fits over a mating ridge on the socket face to minimize penetration of dirt and moisture. Housings are constructed from corrosion-resistant diecast metal or rugged glass-filled plastic. Contacts are either self-grounding or insulated. See page 6 for socket interiors.

3 MOUNTING HOLES

12310, High-Performance Socket

Surpasses SAE J560b performance standards. Accepts all seven-pole plugs conforming to SAE J560b or Cole Hersee 13-pole plug 12301. Superior



environmental protection gives extended product life. Glass-filled plastic housing cannot rust or corrode.

Gasket-sealed socket door is spring-loaded and locks onto the plug. Solid brass contact pins. Rain hood extends beyond the pins to protect the interior: drain channel inside the socket has drain channel at 5° downward pitch to reduce water retention. Three mounting holes on the flange: .33" (8.4mm) diameter, 2.93" (74.6mm) on centers.

81356 Rubber Boot gives added protection to the terminals. Not included. See page 10.

12080-11, ABS 🔶

Color-fast green glass-filled plastic insures quick identification. Spring-loaded door is marked 'Trailer ABS' to further lessen any chance of misconnection. Mounting holes on the flanges are oval, .488" x .328" (12.4 x 8.3mm), 2.93" (74.6mm) on centers. Mounts through 2" (50.8mm) diameter hole.





2 MOUNTING HOLES

12080, Glass-Filled Plastic, Insulated 🔶

Mounting holes on the flanges are oval, .488" x .328" (12.4 x 8.3mm), 2.93" (74.6mm) on centers. Mounts through 2" (50.8mm) diameter hole. Black plastic.



12080-01, Glass-Filled Plastic, Insulated, Split Pins Same as 12080, but with split-pin contacts.

12063, Diecast, Self-Grounding 🔶

Mounting holes on the flanges are oval, .488" x .328" (12.4 x 8.3mm), 2.93" (74.6mm) on centers. Mounts through 2" (50.8mm) diameter hole.



12063-01, Diecast, Self-Grounding, Split Pins 🔶

Same as 12063, but with split-pin contacts.

12075, Diecast, Insulated

Mounting holes on the flanges : 5/16" (7.9mm) diameter, 4 1/2" (114.3mm) on centers, with additional knockouts 2 15/16" (74.7mm) on centers. Mounts through 2 5/8" (58.7mm) through 3 7/8" (98.4mm) diameter hole.



12075-01, Diecast, Insulated, Split Pins

Same as 12075, but with split-pin contacts.

12077-01, For ISO Type

Diecast housing, polarized ground terminal, insulated. Replacement for ISO 3731-1976 (E) road vehicles, type 24S (supplementary). Contact pins: one spring-grip female, and six solid male.

Mounting holes on the flanges are oval,

.488" x .328" (12.4 x 8.3mm), 2.93" (74.6mm) on centers. Mounts through 2" (50.8mm) diameter hole. Mates with Cole Hersee 11100-02 and 11100-01 plugs.



Plugs

Ground terminal accepts wires up to 8AWG, other terminals up to 10AWG. Cable protectors are constructed of plated steel, and provide strain relief and protection against abrasion. Plug Interiors. See page 6.

12311, High-Performance Plug

Surpasses SAE J560b performance standards. Superior environmental protection gives extended product life. Black glass-filled plastic housing cannot rust or corrode. Plug locks onto opening on spring-loaded socket door. Spring-grip contacts have self-adjusting spring bands to maintain long-term uniform electrical contact with socket pins. O-ring at the plug end prevents water from reaching the contacts. Strain relief and grommet seal isolates the contacts from mechanical strain, and provides extra moisture protection. Cable retainer maintains secure cable connection. Replaceable interior. Connects with all SAE J560b sockets, and Cole Hersee 13-pole sockets.



WITH QUICK RELEASE PLUG INTERIORS

Interiors can be readily removed by loosening the single set screw in the cable clamp, and then depressing on the spring clip release with a screwdriver. The interior then readily slides out. The interior slides back into the housing and locks securely into place with a high-tension metal clip. After the cable clamp is tightened, the plug is ready for use.





12092, Diecast, with Cable Protector 🔶



🔶 Rapid ship item. 🛯 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.





WITH SPRING GRIP ELECTRICAL CONTACTS

Cole Hersee spring grip contacts contain a self-adjusting spring band that maintains contact pressure from socket to pin. Greater contact pressure not only gives greater electrical efficiency, but also makes coupling and uncoupling uniform, and minimizes buildup of dirt. In competitive plugs, conventional contacts tend to widen after repeated use: the Cole Hersee plug has individually sprung sockets to insure maximum contact year after year.

Diecast metal housing. Replaceable interior. Wiring codes are identified on the insulator. Cable clamp holds all wires securely.

1222 🔶



1255, With Cable Protector \bigstar Same as 1222, except with cable protector.



11100-01, ISO Type

Diecast housing, polarized ground terminal, insulated. Replacement for ISO 3731-1976 (E) road vehicles, type 24S (supplementary). Contacts: six spring-grip female, and one solid male pin. Mates with Cole Hersee 12077-01 ISO socket.



11100-02, ISO Type, with Cable Protector Same as 11100-01, except with cable protector.



7-pole

Brown - Right turn and brake lights Red - Left turn and brake lights Green - Taillights and clearance lights

- Yellow Auxiliary
- White Ground
- Blue Electric trailer brakes
- Black Auxiliary Power/Battery Charge

SAE coding convention for 7-pole connectors

Wire Color	Coductor Number	Cole Hersee Terminal Marking	Function
White	1	W	Ground return to towing vehicle
Black	2	ВК	Clearance, side marker, and identification lamps
Yellow	3	Y	Left turn signal and hazard lamps
Red	4	R	Stop lamps and antilock device
Green	5	G	Right turn signal and hazard lamps
Brown	6	BR	Tail and license plate lamps
Blue	7	BL	Continuous ABS power/Auxiliary



Assemblies

Available with one or two plastic or diecast metal plugs. Conform to ATA, RCCC, SAE and TTMA standards. Superior coil memory minimizes snagging, small diameter coil reduces tangling with other lines. Temperature-resistant coil will not crack or stiffen at -70°F (-57°C). Cable jacketing is abrasion- and cut-resistant, repels oil, gas and chemicals. 100% electrical copper conductors give maximum conductivity. Six 12AWG and one 10AWG wires.

Coiled Cable

12ft working length



11216-04, Two Metal Plugs

With two 1222 plugs: metal housings, spring grip electrical contacts.

11247-01, Two Metal Plugs

With two 12092 plugs: metal housings, quick-release plug interiors and cable protectors.

11216-05, One Metal Plug With one 12091 plug: metal housing, quick-release plug interior.

11217-06, One Metal Plug

With one 12092 plug: metal housing, quick-release plug interior and cable protector.

11247-02, Two Plastic Plugs

With two 12082 plugs: glass-filled plastic housings, quick-release plug interiors and cable protectors.

Straight Cable

10' 8" long (3.25m)

11127, Two Metal Plugs

With two 1255 plugs: metal housings, spring grip electrical contacts and cable protectors.

11128, Two Metal Plugs

With two 1222 plugs: metal housings, spring grip electrical contacts and cable protectors.

11127-05, Two Metal Plugs

With two 12092 plugs: metal housings, quick-release plug interiors and cable protectors.

A2 1-6 POLE CONNECTORS

Normally used with a trailer where limited functionality (taillights, brake lights) is needed. Ideal for boat trailers, or RVs towing a car on a flatbed trailer. See also 'In-Line Trailer Connectors' on page 7 for a different kind of connector. Diecast metal housings. Screw terminals accept up to 12AWG wire. Replaceable interiors.

Sockets

Brass split-pin contacts are aligned to assure proper contact and minimal voltage drop. Spring-loaded socket doors, plug locks securely into the opening. Wiring codes are identified on the insulator. Two mounting holes on the flange 17/64" (6.7mm) diameter, 2 15/16" (74.6mm) on centers. Mount through 1 3/8" (34.9mm) diameter hole.





1235, 6-Pole, Protective Housing 🔶

Same as 1258, but with special housing that protects terminals from roadsplash.



1232, 4-Pole, Protective Housing With special housing that protects terminals from roadsplash.

1257, 4-Pole Same as 1232, but with exposed terminal screws.

Plugs

Contacts float for best alignment and connection. Cable clamps hold all size cables firmly in place. Cable protectors (where present) are constructed from plated steel, and provide strain relief and protection against abrasion.

1236, 6-Pole 🔶







1233, 4-Pole 🔶



1253, 4-Pole, Cable Protector \bigstar Same as 1233, but with cable protector.

Cable

See page 10.

Interiors

See page 6.

2-Pole Power Take-Off Connector

Suitable replacement for connectors in tarping applications. Provides a high-integrity two-circuit path for on- and off-road vehicles and in agricultural applications. Plug latches solidly with the socket cover. Vertically-aligned machined brass contacts, diecast zinc plug and socket housings, engineering-grade plastic. Terminations accept 6AWG wire. Polarized.

11041-06, Socket 🔶

Gasket-sealed socket keeps out dirt and moisture when plug is not in use.



11042-05, Plug 🔶

For use with 2-pole socket 11041-06. Durable, flexible spring coil protects the cable.



Photo: Roll•Rite LLC.



tarping apps

The two-pole power take-off is perfect for tarping applications ... but it's also used in liftgate connections and to supply power to a broad range of auxiliary equipment that's part of the truck or utility vehicle. It also finds use in powering on-site equipment.

1-Pole Power Take-Off Connector

Provides power to auxiliary equipment. Accepts up to OAWG cable. Diecast metal housings. Electrical conductors and connections are designed for maximum efficiency and long life.

11041, Socket 📩

Self-grounding. Solid brass 3/8" (9.5mm) diameter male contact, with insulated tip to prevent short circuits. Rubber boot protects the terminals and connections from moisture and dirt. Fits 2" (50.8mm) diameter hole. Two mounting holes on the flange 21/64" (8.6mm) diameter, 2 5/16" (74.6mm) on centers.



11042, Plug 🔶

With ground return terminal. Brass female contact with spring grip tension provides solid engagement with the mating socket. Cable clamp holds cable firmly in place.



눚 Rapid ship item. III Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



External Ground/ Universal Line Connector

Provides an external ground where grounding cannot be obtained through the vehicle frame. Can be used in conjunction with 11041 and other primary electrical take-off units.

11157, Socket

Brass contacts and terminals. Accepts up to 6AWG cable. Corrosion-resistant plated steel housing. Stainless steel spring on the cover locks the plug in place, closes securely to protect the contacts. Rubber boot protects terminals and cable connection. Integral mounting bracket has two

.218" (5.6mm) diameter mounting holes,

1.25" (31.8mm) on centers.



11156, Plug

Plated brass housing. Threaded cable grip prevents loosening of cable.



A3 SOCKET AND PLUG INTERIORS

Impact-resistant insulators repel oil and water. Permanent molded-in wire codes provide easy identification. Contacts and connections are carefully designed to ensure maximum electrical efficiency. Terminal screws, socket mounting or plug mounting screws are provided.

13-Pole

Accepts up to 8AWG and 10AWG wire.

12302, Plug Interior

For 12301 plug. Glass-filled plastic insulator, spring-grip brass contacts. 0-ring seal.



colors of wiring

See page 98.

7-Pole

Accept up to 8AWG and 10AWG wire. Spring-grip contacts have selfadjusting spring bands that ensure uniform contact with socket pins. Contacts float for best alignment and connection. Bumper construction protects the end of the plug housing.

12312 Plug Interior, Spring-Grip Contacts For 12311 plug. O-ring seal.



1286, Plug Interior For 1222 and 1255 plugs.



6-Pole Accept up to 12AWG wire.

1296, Plug Interior For 1236 and 1254 plugs.

1158, Plug Interior Straight Body For 1236 and 1254 plugs, and many other makes of plug.



1159, Socket Interior For 1235 socket. Split contact pins.

4-Pole Accept up to 12AWG wire.

1295*, Plug Interior For 1253 and 1233 plugs.

1156*, Socket Interior For 1232 socket. Split contact pins.



🔺 👷 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



vehicle connectors

A4 AUTOMOTIVE TRAILER CONNECTORS

See also on page 4: '1- to 6-pole Connectors'.

In-line Trailer Connectors

Flat profile design provides a robust 7-pole or 12-pole connection. Housings are molded thermoplastic material, resistant to ultraviolet solar radiation. Nickel-plated brass terminals with split contact pins give a positive connection. Insulators between each terminal provide protection from short circuits. Spring-loaded socket lid protects the terminals when not in use. Insulated cable clamp secures the cable, minimizing vibration and strain. Terminal covers are easily removed for access to terminals.

10.

11.

12.

Accessory

Accessory

Accessory

Accessory

Ground

Circuit Identification:

- 1. Left turn signal 8. 9.
- 2. Accessory
- 3. Ground
- 4. Right turn signal
- 5. Accessory
- 6. Brake lights
- 7. Rear, clearance and side marker lamps

7-pole connectors have circuits 1-7 only.

7-Pole

Connectors accept up to 14AWG wire.





12401, Plug



12-Pole

Pins 1 – 7 accept up to 14AWG wire, pins 8 – 12 accept up to 8AWG wire.

12500, Socket

Accepts 12-pole plug or 7-pole plug.







Universal Trailer Connectors

Weatherproof connectors & wire lead assemblies. Polarized to assure proper mating of circuits. Molded bodies. Color-coded 16AWG wire, 6" long (152.4mm). Conductors are properly aligned and bonded into the insulation, to assure minimal voltage drop, and for ease in connecting.

11135, 5-Pole Pair 🔶



11134, 4-Pole Pair 🔶



11134-08BP, 4-Pole Pair, with Splicers Retail pack with 11134 and eight 30223 Quick-Tap wire splicers.

11173, 3-Pole Pair 🌟





눚 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



Connectors with Screw-On Caps

Molded insulator bodies. Precision-machined contacts. Knurled caps unscrew for easy connection of wires, and protect against weather and dirt. Terminal ID .110" (2.8mm) accepts up to 12AWG stranded wire.

1107-F*, 2-Pole Female Plug



1107-M*, 2-Pole Male Plug



1107*, 2-Pole Pair One 1107-M (male) and one 1107-F (female).



1102*, 2-Pole Pair, Polarized Same as 1107, except polarized.

M-118, 2-Pole Pair, Polarized, Brass Screws BP Same as 1107, except polarized, and with brass terminal screws.

1102-F, 2-Pole Pair, Polarized

Female polarized plug.



1238, 2-Pole Polarized Plug and Socket

Screw-on cap protects the socket from dirt and moisture when not in use. Polarized for proper mating of circuits. Includes one 1102-F plug. Mount in 45/64" (17.9mm) diameter hole in panels up to 3/8" (9.5mm) thick. Plated steel cap and housing.



1292*, 2-Pole Socket with Variable Spacer

Mounting nut, lockwasher and spacer are adjustable for different panel thicknesses. Mounts flush in 11/16" (17.5mm) diameter hole. Polarized for proper mating of circuits. Mates with 1102-F plug (not supplied).



Connectors with Rubber Caps

Polarized to assure proper mating of circuits. Molded insulator bodies. Precision-machined brass contacts. Rubber caps protect connectors.

1134, 4-Pole Pair BP Circuit identification printed on the insulator.



M-115, 4-Pole Pair, Brass Screws BP Same as 1134, but with brass terminal screws.

M-114, 3-Pole Pair, Brass Screws BP Brass terminal screws.



M-121 2-Pole Pair, Brass Screws 📴 🔶

Brass terminal screws.



Flush-Mount Flanged Socket Connectors

Corrosion-resistant socket housings. Two .147" (3.73mm) diameter mounting holes, 1/19" (30.23mm) on centers.

1110*, 2-Pole Male Socket

Mates with 1107-F plug.



1109*, 2-Pole Female Socket Mates with 1107-M plug.



1145*, 2-Pole Male Socket, with Cover Mates with 1102-F plug. Pivot cover protects against moisture and dust. Polarized.



1214, 2-Pole Male Socket, with Cover and Plug 1102-F plug and 1145 socket. Polarized.



trailer tail light converter

Electronic unit permits a towing vehicle with two lighting circuits for each side to operate lights on a trailer with a single circuit each side. Eliminates the need to rewire the trailer or to add additional lights. US laws require stoplights, turn signals and tail lights on trailers. See Page 64.

A5 FARM EQUIPMENT CONNECTORS

Two-pole breakaway unit: plug automatically releases at approximately 20lbs pull. Mate with all connectors of comparable design. Polarized. 20A maximum capacity.

1282, Socket with Mounting Bracket

Plated steel housing. High impact-resistant molded plastic insulator. Brass contacts and brass screw terminals. Stainless steel spring on the cover locks the plug in place. Integral mounting bracket with two .218" (5.6mm) diameter mounting holes, 1.25" (31.8mm) on centers.



1283-325*, Plug Plated brass housing. Threaded cable grip.





ag. app.

Several of the 'tractor trailer' plugs are also useful in agricultural applications. Two of the most popular are the 7-pole connectors 12080/12081/12082 and 12310/12311 as well as the 13-pole connectors 12300/12301. See page 1.



A6 ACCESSORIES

Cable

Straight cable, available by the foot. Conductor wires are color-coded for easy recognition. Durable insulation resists abrasion.

98647, 13-Conductor

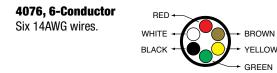
Will not crack or stiffen at -70°F (-57°C). One 8AWG, one 10AWG, five 12AWG and six 14AWG wires, 100% electrical copper for maximum conductivity.



4077, 7-Conductor

Six 12AWG wires and one 10AWG white wire.





4075, 4-Conductor Four 14AWG wires.



Cable Protector

81192, Cable Protector

Protects against strain and kinking. Plated steel. For Cole Hersee plugs: 11042-05, 12081, 12082, 12091, 12092.



Trailer Connector Adapters

These adapter assemblies are useful to conveniently connect a 6-pole system to a 7-pole system, and eliminate makeshift jumpers. Connect the appropriate adapter to your existing cable assembly to link a vehicle with a 6-pole male socket to a vehicle with a 7-pole male socket. Brass pins, brass female contacts.

11011, For Use with a 7-Pole Cable Assembly

Consists of a 6-pole female diecast plug connected by a 12" cable to a 7-pole male plug. The 7-pole plug is plastic with a plastic boot.

11017, For Use with a 6-Pole Cable Assembly

Consists of a 6-pole male plastic plug connected by a 12" cable to a 7-pole female diecast plug.



Protective Boots

Protect against road splash, dirt and moisture.

81356, Boot for 12300 and 12310 Sockets

Fits over the back of the flange, and covers the terminal connectors. Protects against road splash, dirt and moisture. For 12310 7-pole socket and 12300 13-pole socket.



11178, Boot for 7-Pole Sockets 🔶

Inner ridge locks over the heads of the terminal screws and to the edge of the casting. Fore Cole Hersee sockets 12063, 12063-01, 12080, 12080-01, 12080-11, 12077-01 and other 7-pole sockets of comparable design.



🔶 Rapid ship item. 🛯 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



Surface Mounting of Sockets

For attachment of 4-, 6-, and 7-pole sockets of standard design (without integral circuit breakers).

11167, Adapter Plate

Heavy duty adapter provides secure seating for attachment of sockets, and permits installation of fuse/breaker block or terminal block in the rear. Mounting holes 5/16" (7.9mm) diameter, 4 1/2" (114.3mm) on center. Mounting hardware included.



11165, Mounting Bracket

Eliminates the need for cutting a hole in the trailer to accept a socket. Mounting hardware included. Center hole is 2" (50.8mm) diameter. Mounting hardware included.



11164, Mounting Gasket for Sockets

Neoprene gasket for plastic or metal sockets. For Cole Hersee sockets 12063, 12063-01, 12080, 12080-01.



11187, Plug Cleaner Brush

For 7-pole plugs. Durable plastic body with snap-on cover. Stainless steel wire will not rust. Brush cleans corroded contacts in seconds, and with regular use extends the life of connectors



11750, Stor-A-Way Plug Holder 🔶

Cole Hersee patent. Keeps plugs clean when not in use, and extends life, by protecting electrical contacts from dirt and roadsplash. For all SAE J560b 7-pole plugs and 13-pole plugs. Spring-loaded for secure locking. Heavy duty glass-filled plastic housing.

Fits 11100-02, 12311, 1222, 1255, 12091, 12092, 12081, 12082, 12301, 11042 and 11042-05.

11751 Plug Holder fits 1236 and 1254 and all similar six pole plugs.



31784, Female Pin Terminal

Crimp-on brass connector mates with the 6 smaller pins in the 12301 13-pole plug and 12300 13-pole socket. Pre-tinned brass. 6 required for each 13-pole plug.

1160, License Holder Tube

Weatherproof tube protects important papers. 5" x 1 1/8" (127.0 x 28.6mm). Captive brass screw-on cap. Brass flange, aluminum body. Three 3/16" (4.8mm) diameter mounting holes in the flange.



assembly of plugs

See page 98 for the best way to assemble plugs and sockets.



в ignition & key switches

B1 956 SERIES IGNITION AND STARTER SWITCHES

All ignition switches in this series with blade terminals accept Delphi (Packard) connector 2962912.

Heavy Duty

Dependable switches with an array of options for every application.





Coded tumbler lock and two keys.

Patented Hencollock and two keys. With short handle Hencol key "Hencol S".



S = With short handle lever G = knob "Lever S". 0 =

Letter Code in tables in this section: Hencol S = Hencol keys 83357Lever S = Short handle lever knob 81254

S = Shutter lock seal G = Gasket seal

0 = 0-Ring seal in stem

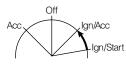
Terminals: Brass blade, 1/4" (6.4mm) wide, which accept Delphi (Packard) connector 2962912 or equivalent, or screw terminals with lock washers. Sealed terminal insulator.

Housing: Corrosion-resistant diecast construction.

Mounting: 1"-24 bushings fit panels from .030" (.76mm) through .090" (2.3mm) thick. All other bushing sizes fit panels .060" (1.5mm) up to .110" (2.7mm) thick.

4-Position

Part No.	Terminals	Actuation/ Lock	Seal	Ground Terminal	Bushing					
956-4100	4 blade	Coded	S	-	1"-24					
956-4104	4 screw	Coded	S	-	1"-24					
956-4107	4 screw	Hencol S	G 0	-	1"-24					
956-4111	4 blade	Lever S	-	-	1"-24					
956-4124	4 screw	Lever S	G 0	-	1"-24					
956-4154	5 screw	Coded	S	1	1"-24					
956-4304	4 screw	Coded	-	-	3/4"-24					
956-4307	4 screw	Hencol S	G 0	-	3/4"-24					
956-4311	4 blade	Coded	0	-	3/4"-24					
956-4704	4 screw	Coded	S	-	7/8"-24					
With identical key code CH-528										
956-4148	4 blade	Coded	S	1	1"-24					



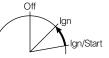
Spring return to IGN/ACC. Key is removable only in the Off position.

Electrical ratings at 12V DC: 10A Accessory, 10A Ignition, 5A Start, 1A Ground

3-Position

OFF - IGNITION - IGNITION/START

Part No.	Terminals	Actuation/ Lock	Seal	Ground Terminal	Bushing
956-5307	3 screw	Hencol S	G 0	-	3/4"-24



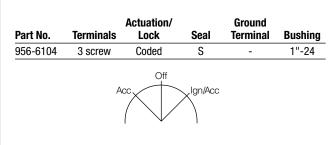
Spring return to IGN. Key is removable only in the Off position. Electrical ratings at 12V DC: 10A Ignition, 5A Start, 1A Ground

OFF - IGNITION/ACCESSORY - IGNITION/START

Part No.	Terminals	Actuation/ Lock	Seal	Ground Terminal	Bushing
956-5109	4 screw	Lever	G	-	1"-24
		Off	Ign/Acc	tart	

With military lever, Spring contacts, Spring return to IGN/ACC. Key is removable only in the Off position. Electrical ratings at 12V DC: 956-5109: 20A Accessory, 10A Ignition, 10A Start

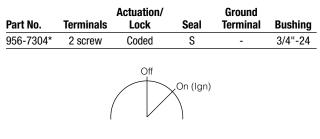
ACCESSORY - OFF - IGNITION/ACCESSORY



Key is removable only in the Off position. Electrical ratings at 12V DC: 10A Accessory, 10A Ignition

눚 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.

2-Position



Key is removable only in the Off position. Electrical ratings at 12V DC: 10A Ignition

Anti-Restart Ignition Switches

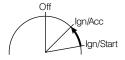
When the engine is running, the starter circuit cannot be energized. This prevents accidental damage to the starter motor, and is highly recommended in situations such as package delivery vehicles or in noisy locations where it might not be evident that the motor is running. The switch must be turned to the Off position before the start circuit an be re-energized.

Part No.	Terminals	Actuation/ Lock	Seal	Ground Terminal	Bushing
956-3124 ★	5 screw	Lever S	0	1	1"-24
956-3125	4 screw	Coded	G S	-	1"-24
956-3126 ★	4 screw	Hencol S	G	-	1"-24
956-3134+	4 screw	Coded	G S	-	1"-24
956-3137*	4 screw	Hencol S	G 0	-	1"-24

 With identical key code CH-535

 956-3130*
 4 screw
 Coded
 G S
 1"-24

Same as No. 3125 except with accessory terminal rotated 180.°



Spring return to IGN/ACC. Key is removable only in the Off position.

Electrical ratings at 12V DC:

10A Accessory, 10A Ignition, 5A Start, 1A Ground: switches 956-3124, 956-3126.

30A Accessory, 10A Ignition, 10A Start: switches 956-3125, 956-3134.

10A Accessory, 10A Ignition, 5A Start: 956-3137.

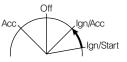
Extra Heavy Duty Ignition and Starter Switches

Specially designed for demanding applications with higher energy circuits, typically 30A or 20A at 12V DC.

4-Position

ACCESSORY - OFF - IGNITION/ACCESSORY - IGNITION/START

		Actuation/		Ground	
Part No.	Terminals	Lock	Seal	Terminal	Bushing
956-4113	4 blade	Hencol S	S 0	-	1"-24
956-4116*	4 blade	Coded	SG	-	1"-24
956-4138 ★	4 blade	Coded	-	-	1"-24



Key is removable only in the Off position. Spring return to IGN/ACC. Electrical ratings at 12V DC:

30A Accessory, 10A Ignition, 5A Start: switches 956-4113, 956-4125.

30A Accessory, 10A Ignition, 10A Start: switch 956-4116.

20A Accessory, 20A Ignition, 10A Start: switch 956-4138.



Switches in situations where equipment is frequently left idling, and there is chance that the operator might 'restart' the engine. This occurs in industrial locations where noise levels are high, in delivery trucks, and many other situations.

LVD

New electronic Low Voltage Disconnect Switch automatically disconnects accessory circuits to maintain starting power, then reconnects them when battery is recharged. See page 39.



B2 UNIVERSAL IGNITION AND STARTER SWITCHES



Case A

Zinc diecast, coded tumbler lock. Fits panels up to 3/8" (9.5mm).



Case B Plated steel, coded tumbler lock.

Fits panels up to 1/2" (12.7mm).



Case C

Plated steel. Non-tumbler Hencol lock: either short handle key (Hencol S), or long handle key (Hencol L). Fits panels up to 1/8" (3.2mm).

In the tables: Actuation/Lock column:

Hencol S = Hencol key 83357, Hencol L = long handle Hencol key 83353; Lever S = short lever knob 81254, Lever L = long lever knob 80101 -B. Seal column: S = Shutter lock seal, G = Gasket seal, O = O-ring seal in stem.



Case D

Zinc diecast, military lever. Fits panels up to 11/64" (4.4mm).



Case F

Plated steel. Lever knob: either short (Lever S), or long (Lever L). See page 18. Fits panels up to 1/8" (3.2mm).



Case G

Plated steel. Non-tumbler Hencol lock: either short handle key (Hencol S), or long handle key (Hencol L). Fits panels up to 1/4" (6.4mm).

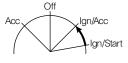
4-Position

ACCESSORY - OFF - IGNITION/ACCESSORY - IGNITION/START

		Actuation/			
Part No.	Terminals	Lock	Seal	Case	Bushing
9579 📴 ★	4 screw	Coded	-	А	3/4"-20
95535	4 screw	Coded	-	В	13/16"-24
95515-A	4 screw	Hencol S	-	С	5/8"-32
95525-A	4 screw	Hencol S	0	С	5/8"-32

With identical key code CH-505

9579-02 4 screw Coded - A 3/4"-20



Key is removable only in the Off position. Spring return to IGN/ACC. Electrical ratings at 12V DC: 10A Accessory, 10A Ignition, 5A Start.

3-Position

OFF - IGNITION - IGNITION/START

Heavy Duty

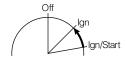
Ratings at 12V DC: 10A Ignition, 5A Start.

	Actuation/			
Terminals	Lock	Seal	Case	Bushing
3 screw	Coded	-	Α	3/4"-20
3 screw	Coded	-	В	13/16"-24
3 screw	Hencol S	-	С	5/8"-32
3 screw	Hencol S	0	С	5/8"-32
3 screw	Coded	0	А	3/4"-20
	3 screw 3 screw 3 screw 3 screw 3 screw	TerminalsLock3 screwCoded3 screwCoded3 screwHencol S3 screwHencol S	TerminalsLockSeal3 screwCoded-3 screwCoded-3 screwHencol S-3 screwHencol S0	TerminalsLockSealCase3 screwCoded-A3 screwCoded-B3 screwHencol S-C3 screwHencol S0C

Extra Heavy Duty

Ratings at 12V DC: 25A Ignition,20A Start: 95610, 95612 25A Ignition, 70A Start: 95521-B.

Actuation/				
Terminals	Lock	Seal	Case	Bushing
3 screw	Lever S	-	F	5/8"-32
3 screw	Lever S	0	F	5/8"-32
3 screw	Hencol L	0	G	5/8"-32
	Terminals3 screw3 screw	TerminalsLock3 screwLever S3 screwLever S	TerminalsLockSeal3 screwLever S-3 screwLever S0	TerminalsLockSealCase3 screwLever S-F3 screwLever S0F



Key is removable only in the Off position, spring return to IGN.

📌 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.

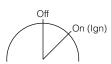


2–Position

OFF - ON (IGNITION)

		Actuation/			
Part No.	Terminals	Lock	Seal	Case	Bushing
9577 ★	2 screw	Coded	-	Α	3/4"-20
95532	2 screw	Coded	-	В	13/16"-24
95512-A	2 screw	Hencol S	-	С	5/8"-32
95522-A	2 screw	Hencol S	0	С	5/8"-32

Key is removable only in the Off position, except 9518 where the key is removable in both positions.



Electrical ratings at 12V DC: 10A Ignition

B3 SPECIALIZED IGNITION SWITCHES

Marine Design Switches

Durable plastic case and stem with PVC boot for added weather protection. Key is removable only in the Off position. Off-Run-Start Spring return to IGN. Electrical ratings at 6-36V DC: 15A ignition, 5A start.

M-850 📴 🔶

Three nickel-silver screw terminals. Mounting stem fits panels up to 7/8" (22.2mm) thick, with 7/8" diameter hole.



M-832, Long Stem with Push-To-Choke 📴 🔶

Six nickel-silver screw terminals. Long mounting stem 2.00" (50.8mm) long, fits panels up to 1 3/8" (34.9mm) thick, and with 7/8" diameter hole (22.2mm)



Magneto Ignition and Battery Start Switches

Dependable switches suitable for golf and utility carts, lawn and garden tractors and similar applications.

Off – Run – Start (Start Terminal to Battery)



Key removable in Off position, spring return to RUN. Self-grounding in the Off position in metal panels.

95520-B, 70A Start

Electrical ratings at 12V DC: 70A Start, 1A Magneto. Three screw terminals. Plated steel case. 5/8" -32 mounting stem with 0-ring seal, fits panels up to 1/4" (6.4mm). Long Hencol key.



Off – Run/Accessories – Start



Key removable in Off position, spring return to RUN/ACC. Self-grounding in the Off position in metal panels. Electrical ratings at 12V DC: 10A Accessory, 5A Start, 1A Magneto.

95539

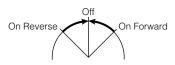
Four screw terminals. Diecast case. 3/4"-20 mounting stem, fits panels up to 1/2" (12.7mm).



눚 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



Reversing Switch



Mom Forward – Off – Mom Reverse Key removable in Off position, spring return to Off.

75705-01, 10A with Tumbler Lock

Electrical Ratings at 12V DC: 10A. Three screw terminals. Plated steel case. 13/16"-24 mounting stem with O-ring seal.





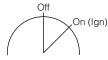
reversing switches

Reversing Switches

This type of switch has multiple applications: on cranes, hoists, winches, snowplows etc. - anything that calls for a motor to operate in forward-reverse, translating to motorized motion of updown, left-right, open-close, in-out etc.

An alternate mechanism is to use Reversing Solenoids 24400, 24401, 24401-01, 24402, 24450 in conjunction with rocker, toggle, push-pull or rotary switches. These solenoids are also used for forward-reverse in simple automotive vehicles, such as golf carts and garden tractors.

Compact Ignition and Start Switch



Key removable at Off only

9500, 10A with Lever

Electrical Ratings at 12V DC: 10A Two screw terminals. Plated steel case. 1/2"-20 mounting stem fits panels to 13/64" (5.2mm)

Delco Replacement Ignition and Start Switches Off

Ign/Start

Ign/Acc Key removable at Off, spring return to IGN/ACC 95400 Four screw terminals. Replaces: Delco D-1460, GMC 116508. Motorcraft SW-276. Off Ign/Acc Key removable at Off, lgn/Start/Ground spring return to IGN/ACC 95408, 5-Blade Terminals, for Delphi (Packard) 2984170 Without lock cylinder (order 95874, cylinder, 2 keys). Five blade terminals. 1"-24 UNS-2A thread. Replaces: Delco D-1469, D-1482, D-1482-A, GMC 1116672, 74, 85, 87, 1116704, 10. GMC Trucks '70. 95410, 7-Blade Terminals, for Delphi (Packard) 6288702 📌 Without lock cylinder (order 95874, cylinder, 2 keys). Seven blade terminals,

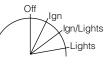
includes two ground terminals for checking indicator bulbs. One additional battery terminal provides continuous hot feed for optional equipment. O-ring seal in the mounting stem. 1"-24 UNS-2A thread.

Replaces: Delco D-1403-A, D-1406-A, D-1480, D-1498-A, GMC 1116712, 1116683, 95, 1116704, 09, 11, 2234285, Chevrolet Trucks 67-83, 85-89, GMC Trucks 67-83, 85-89.

Battery Ignition and Light Switch 9621-01

Provides a light circuit in addition to the ignition function. Electrical Ratings at 12V DC: 5A Ignition, 5A Lights. Three screw terminals. Plated steel case. 5/8"-32 mounting stem, fits panels up to 9/64" (3.6mm).





눚 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



Push-Pull Battery Ignition and Starter Switch

9576

Spring return to IGN/ACC.Electrical Ratings at 12V DC: 10A Accessory, 5A Ignition, 5A Start. Four screw terminals. Plated steel case. 3/8"-24 mounting stem fit panels up to 3/16" (4.8mm). Includes hexnut and washer



Ignition Switch with Wire Lead Assembly

95614

Key removable in Off. Electrical Ratings at 12V DC: 5A. Two 12" 14AWG wire leads with attached ring terminals. Heavy duty steel case, plated to resist corrosion. Coded lock cylinder with two keys. Rubber boot seal for added moisture and dust protection. 13/16" (20.6mm) diameter mounting stem, 25/64" (9.9mm) long fits panels up to 7/32" (5.5mm).



Foot-Operated Starter Switches

Off-On, normally Off. On with plunger depressed, spring return to Off. Copper contacts and terminal studs.

9060, Long Plunger 🔶

1.83" (46.5mm) long plunger. Two stud terminals, 5/16"-24 thread with hexnuts and lockwashers. Mounting: two 9/32" (7.2mm) diameter holes, 1 3/4" (44.5mm) on centers.



Off

On (Ign)

Replaces: Autolite SW-40001 (15-47), 15-50, 4001A, 4002, 4005, 4010, 4015 (15-51), Delco D900 (405C). 9183, Short Plunger \ Same as 9060, but with 1"

(25.4) long plunger.



Replaces: Autolite SW-4012 (15-49), Delco 1996478.

B4 95060 SERIES SEALED KEY SWITCHES

With integral sealed Deutsch connector. Rugged plastic construction, with fully sealed contact area, using 0-rings and ultrasonic welding. Contacts sealed front and back to IP67 (with connector installed). Available with or without key boot, with or without anti-restart, with or without spring return to Ignition/Accessory position. Key is removable only at the Off position. Tested to SAE J259 for ignition switches. Supplied with two matching tumbler keys. Contact rating 10A at 12V DC, 5A at 24V DC.



Part No.	Positions	Spring Return	Key Boot	Anti-restart
95060	4: Acc-Off-Ign/Acc-Start	1	1	-
95060-01	4: Acc-Off-Ign/Acc-Start	1	1	1
95060-02	4: Acc-Off-Ign/Acc-Start	-	1	-
95060-03	3: Off-Ign/Acc-Start	1	1	-
95060-04	3: Off-Ign/Acc-Start	1	1	1
95060-05	3: Off-Ign/Acc-Start	-	1	-
95060-06	3: Acc-Off-Ign/Acc	-	1	-
95060-07	2: Off-Ign/Acc	-	1	-

* Other circuitries are available consult Cole Hersee.



B5 ACCESSORIES

Protective Boots

Mounting nut containing a durable rubber with a self-closing key slot.

83285-01, Aluminum 🔶

3/4"-20 thread, 7/16" (11.1mm) thickness.



83288, Chrome-Plated Brass 13/16"-24 thread, 17/32" (13.5mm) thickness.

Plastic Cap

97298 \(Captive black protective cap, used with facenut 83295-A



Facenuts

		Hole to		
Part No.	Thread	Clear	Туре	Thickness
83296	1"-24	21/32"	Aluminum Round Knurl	13/32"
83346*	7/8"-24	5/8"	Aluminum Round Knurl	3/8"
83348	3/4"-24	5/8"	Aluminum Round Knurl	3/8"
8367	3/4"-20	5/8"	Aluminum Round Knurl	19/64"
83337	13/16"-24	5/8"	Brass-Chrome Plate-Hex	15/64"
83295-A	13/16"-24	5/8"	Brass-Chrome Plate-Hex	15/32"
8391-A	5/8"-32	1/2"	Brass-Zinc Plate-Hex	1/4"
83321-A*	1"-32	15/16"	Zinc Die Cast Round	5/16"
8391-C	5/8"-32	3/4"	Brass-Chrome Plate	1/4"



Color-Coded Key Covers

Covers slip over Cole Hersee tumbler lock keys 83406, 83373 and 83379, and make key identification easy.

98635-01, Black 98635-03, Red



Keys for Cole Hersee Ignition Switches

Hencol keys

Patented Hencol lock and key system gives trouble-free performance. Heavy gauge steel, plated to resist corrosion.

83357, Short

95030-A	95522-A	95527-A	95616-
95512-A	95523-A	95528-A	95617
95514-A	95524-A	95561-01	95663-
95515-A	95525-A	95564-01	95663-
95516-A	95526-A	95616	956-91
95517-A			





83353, Long In tables on page 14, this key is denoted 'Hencol L'. Long key is on these switches:

95511-B 95521-B 95520-B 95597

Tumbler Lock Key Blanks

83406 For these Ignition Switches:

956-4119 9577 9518 956-4125 M-702



For these Ignition Switches:

956-3122	956-4116	956-4704	956-6104
956-3125	956-4154	956-5108	956-6304
956-3131	956-4304	956-5122	956-7104
956-3134	956-4305	956-5144	956-7304
956-4100	956-4311	956-5304	95582
956-4104	956-4354	956-5344	95583
956-4148			

83379

83373

For these Ignition Switches:

🔺 📌 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



rocker & toggle switches c

C1 WEATHER-RESISTANT ROCKER SWITCHES

Switches for universal applications. Contact area sealed against dirt and moisture entry to IP66. Snap-in mounting fits standard hole .830" x 1.45" (21.1 x 36.8mm). Fits panels from .093" to .187" thick (2.4 x 4.7mm). For bezels to hold these switches together side by side, see page 25. Circuit diagrams: see page 91.

58328 Series with Pilot Lights,25A

Single or dual pilot lights, dependent or independent illumination. Faceted lenses are on the actuator. Matte finish black plastic housing, bezel and actuator. Silver contacts, brass blade terminals. 25A at 12V DC.

Each of the five electrical configurations of switch is also available as a BP (bubble pack) retail unit, containing separate lenses of all colors. Lenses snap easily into place.

One Pilot Light

OFF-ON SPST, DEPENDENT

Three blade terminals. Diagram F, page 93.

58328-04, Red Lens 🔶

58328-11, Green Lens 🜟

58328-12, Clear Lens

58328-13, Amber Lens 🔶

58328-100BP Kit P \bigstar With one lens of each color. BP only.



OFF-ON SPST, INDEPENDENT

Four blade terminals. Diagram G, page 93.

58328-01, Red Lens

58328-02, Green Lens

58328-09, Clear Lens

58328-10, Amber Lens

58328-101BP Kit BP With one lens of each color. BP only.

identify that switch...

A quick visual inspection will often tell you. See page 97.

Two Pilot Lights

Lens colors are listed top lens/bottom lens.

ON-ON SPDT, TWO DEPENDENT

Four blade terminals. Diagram J, page 93.

58328-08, Green/Green 58328-14, Amber/Amber 58328-15, Clear/Clear 58328-16, Red/Red 58328-17, Amber/Clear 58328-18, Amber/Green 58328-19, Amber/Red 58328-20, Clear/Green 58328-21, Clear/Red





58328-102BP Kit BP With two lenses of each color. BP only.

dependent or independent?

Dependent Illumination

When the switch is On, the handle is illuminated.

Independent Illumination

Actuation of the switch does not affect the illumination of the handle. The switch can be On or Off, and illumination is usually controlled by another switch. This mode can be used to light a whole bank of switches, and is especially useful for locating switches in the dark.

wiring diagrams

See page 93.





ON-OFF SPST, DEPENDENT AND INDEPENDENT

Four blade terminals. Diagram H, page 93.

58328-05, Red/Clear 58328-39, Green/Green 58328-40, Red/Red 58328-47, Green/Amber 58328-48, Green/Clear 58328-49, Green/Red 58328-50, Red/Amber 58328-51, Red/Green

58328-104BP Kit 📴 With one lens of each color and size. BP only.

ON-OFF-ON SPDT, TWO DEPENDENT

Four blade terminals. Diagram J, page 93.

58328-06, Red/Clear 58328-07, Green/Clear 58328-25, Green/Green 58328-26, Red/Red 58328-33, Green/Amber 58328-34, Green/Red 58328-35, Red/Amber 58328-36, Red/Green

58328-103BP Kit 📴 With one lens of each color and size. BP only.

With and Without Pilot Lights, 25A

Unlit, single or dual dependent pilot lights. Matte black plastic housing, bezel and actuator. Silver contacts. 56 Series has brass screw terminals. 58 Series has brass blade terminals. 25A at 12V DC. Other screw terminal switches in this series are available - contact Cole Hersee.





With Pilot Light(s)

SPST Diagram F, page 93.

56327-01, Off-On 📴 🌟 One red pilot light. Three screw terminals.

58327-01, Off-On 📴 🔶 One red pilot light. Three blade terminals.

SPDT Diagram J, page 93.

58327-06, On-Off-On 📴 🔶 Two red pilots. Four blade terminals.





Without Pilot Lights SPST Diagram A, page 93.

56027-01, On-Off 📴 🌟 Two screw terminals.

58027-01, On-Off 📴 🔶 Two blade terminals.

58027-02, Off-Mom On 📴 🔶 Two blade terminals.

SPDT Diagram B, page 93.

58027-03, On-Off-On 📴 🔶 Three blade terminals.

58027-04, Mom On-Off-Mom On 📴 🔶 Three blade terminals.

DPST

58027-06, Off-On Four blade terminals. Diagram C, page 93.

눚 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.







DPDT

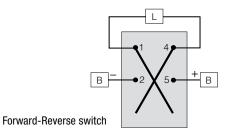
58027-07, On-Off-On 📴 🔶

Six blade terminals. Diagram E, page 93.

58027-11, Mom On-Off-Mom On 📴 🔶

Six blade terminals. Diagram E, page 93.

58027-18, Mom On-Off- Mom On; Forward-Reverse Four blade terminals.



M-58031 Series, 20A

Certified to IP66 for protection against dust and prolonged spray. Recognized at UL 1500: Ignition Protection for Marine Products. With neoprene gasket/panel seal. 20A at 12V DC. Blade terminals, silver contacts, black nylon bezel, black plastic housing.

M-58031-01, SPST Off-On 📴

Two blade terminals. Diagram Q, page 94.

M-58031-02, SPDT On-Off-On 📴

Three blade terminals. Diagram R, page 94.

M-58031-04, DPST Off-On BP Four blade terminals. Diagram T, page 94.

M-58031-06, DPDT On-On Six blade terminals. Diagram P, page 94.

M-58031-07, SPST Off- Mom On P Two blade terminals. Diagram Q, page 94.

58326 Series with Pilot Lights, 20A

Single or dual pilot lights. Faceted lenses inset into the actuator. Matte black plastic housing, bezel and actuator. Silver contacts, up to eight brass blade terminals, of which terminals 7 & 8 connect the pilot light(s). Internal seal. Many other imprinted switches are available in this series. 20A at 12V DC. All are specified for Thomas Built ® school buses except 58326-01.



58326-01, SPST Off-On Red LED Lens

Off-On 5&6. Not imprinted. Independent illumination. Consult Cole Hersee for other styles. Diagram L, page 94.

58326-11, Warning Lights Switch, Off-On-Mom On

DP Off-On 2&3-Mom On 2&3 and 5&6. Imprinted 'Amber. Warning (On). Off' with SAE warning lamp symbol imprinted on the white lens. Independent illumination. Diagram M, page 94.

58326-12, Left Heater Fan Switch, On-Off-On

DPDT On 1&2, 4&5 – Off-On 2&3, 5&6. Imprinted 'High. Left Heater. Low' with SAE fan symbol imprinted on the white lens. Independent illumination. Diagram 0, page 94.

58326-21, Windshield Washer Switch, Off-Mom On

SPST Off-Mom On 2&3. Imprinted 'On. W/S Washer' with SAE washer symbol imprinted on the white lens. Independent illumination. Diagram N, page 94.

58326-24, Windshield Defrost Switch, On-On-On

DPDT On 1&2, 4&5 – On 2&3, 5&4 – On 2&3, 5&6. Imprinted 'Lo/Hi. Def. Off' with SAE defroster symbol imprinted on the white lens. Independent illumination. Diagram 0, page 94.

58326-25, Left Heater Switch, On-On-On

DPDT On 1&2, 4&5 - On 2&3, 5&4 - On 2&3, 5&6. Imprinted 'Lo/ Hi. Left Heater. Off' with SAE fan symbol imprinted on the white lens. Independent illumination. Diagram 0, page 94.

58326-27, Passenger Heater Fan Switch, On-On-On

DPDT On 1&2, 4&5 - On 2&3, 5&4 - On 2&3, 5&6. Imprinted 'Lo/ Hi. Pass Heater. Off' with SAE fan symbol imprinted on the white lens. Independent illumination. Diagram 0, page 94.

58326-29, Fan Switch, On-On-On

DPDT On 1&2, 4&5 – On 2&3, 5&4 – On 2&3, 5&6. Imprinted 'Lo/Hi. Fan. Off' with SAE fan symbol imprinted on the white lens. Independent illumination. Diagram 0, page 94.

wiring

See page 94 for wiring of M-58031 Series & 58326 Series.



C2 STANDARD ROCKER, PLASTIC BEZEL

25A at 12V DC. Moisture-resistant plastic housings, bezels and actuators. Glossy finish actuators and bezels except where noted. Snap-in mounting to fit panels .060" through .250" (1.5mm to 6.4mm). Silver contacts, brass blade or screw terminals. White actuators except where otherwise indicated. Fits standard panel hole .83" x 1.45" (21.1 x 36.8mm).

SPST

57000-23, On-Off Two blade terminals.

56001-04*, Mom On-Off Two screw terminals.



57000-33, On-Off, Red Actuator Typically used for a safety switch. Two blade terminals.

DPDT

56006-04*, On-Off-On Six screw terminals.

57005-11, On-On



Six blade terminals.

57013-08, Mom On-Off-Mom On Six blade terminals.



locking switch



SPST On-Off. Bright orange lock automatically locks the actuator when in the Off position, and must be slid to allow the actuator to be moved to the On position. Matte black finish housing, bezel and actuator. Two blade terminals. 20A at 12V DC.

SPST, DPDT...?

See page 92 for an explanation.

C3 STANDARD ROCKER, METAL BEZEL

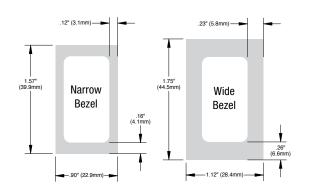
Single and Double Pole. Universal application. Bright nickel plate or black bezel, narrow or wide. Plastic housing and actuator. Snap-in to fit panels 040" through .100: (1.0 to 2.5mm). Screw or blade terminals. 25A at 12V DC. Circuit diagrams, see page 93.





Pilot light, bright bezel

Black actuator, black bezel



SPST

Narrow Bezel

56000-01, On-Off White actuator, bright bezel. Up: On, Down: Off, two screw terminals.

56001-01, Mom On -Off

White actuator, bright bezel. Up: Mom On, Down: Off, two screw terminals.

57000-01, On-Off

White actuator, bright bezel. Up: On, Down: Off, two blade terminals.

57000-04, On-Off

Black actuator, black bezel, Up: On, Down: Off, two blade terminals.

57001-01, Mom On -Off

White actuator, bright bezel. Up: Mom On, Down: Off, two blade terminals.



Wide Bezel

56000-02, On-Off White actuator, bright bezel. Up: On, Down: Off, two screw terminals.

57000-02, On-Off White actuator, bright bezel. Up: On, Down: Off, two blade terminals.

SPST with Pilot Light





Narrow Bezel

56300-01, On-Off

White actuator, bright bezel. Red dependent pilot light. Up: On, Down: Off, three screw terminals. Diagram F, page 93.

56300-11, On-Off

White actuator, bright bezel. Amber dependent pilot light. Up: On, Down: Off, three screw terminals. Diagram F, page 93.

57300-01, On-Off

White actuator, bright bezel. Red dependent pilot light. Up: On, Down: Off, three blade terminals. Diagram F, page 93.

57300-03, On-Off

Black actuator, bright bezel. Red dependent pilot light. Up: On, Down: Off, three blade terminals. Diagram F, page 93.

Wide Bezel

57300-02, On-Off

White actuator, bright bezel. Red dependent pilot light. Up: On, Down: Off, three blade terminals. Diagram F, page 93.

57300-10, On-Off

Black actuator, bright bezel. Red dependent pilot light. Up: On, Down: Off, three blade terminals. Diagram F, page 93.

identify that switch...

A quick visual inspection will often tell you. See page 97.

SPDT

Narrow Bezel

56002-01, On-On White actuator, bright bezel. Up: On, Down: On, three screw terminals.

56003-01, On-Off-On

White actuator, bright bezel. Up: On, Center: Off, Down: On, three screw terminals.

57002-01*, On-On White actuator, bright bezel. Up: On, Down: On, three blade terminals.

57003-01, On-Off-On White actuator, bright bezel. Up: On, Center: Off, Down: On, three blade terminals.

57007-01, On-On-Off White actuator, bright bezel. Up: On, Center: On, Down: Off, three blade terminals.

57007-08, On-On-Off Black actuator, black bezel. Up: On, Center: On, Down: Off, three blade terminals.

57007-11, On-On-Off, Imprinted

Black actuator, black bezel. Up: On, Center: On, Down: Off, three blade terminals. Imprinted "Off, Lo, High."

Wide Bezel

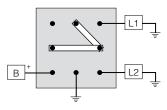
57003-02, On-Off-On

White actuator, bright bezel. Up: On, Center: Off, Down: On, three blade terminals.

SPDT with Pilot Light

57007-07, On-On-Off

Black actuator, bright nickel narrow bezel. Red dependent pilot light. Up: On, Center: On, Down: Off, four screw terminals.





DPDT

Narrow Bezel

56006-01, On-Off-On

White actuator, bright bezel. Up: On, Center: Off, Down: On, six screw terminals.

57006-01, On-Off-On

White actuator, bright bezel. Up: On, Center: Off, Down: On, six blade terminals.

58007-04, On-On-On

Black actuator, black bezel. Up: B-F, Center: B-F, Down: B-A, four blade terminals.

Wide Bezel

56006-02, On-Off-On

White actuator, bright bezel. Up: On, Center: Off, Down: On, six screw terminals.

57006-02, On-Off-On

White actuator, bright bezel. Up: On, Center: Off, Down: On, six blade terminals.

C4 DUAL ROCKER SWITCHES

Two SP switches in one body. Universal application switches. Snap-in mounting. Phenolic housing and plastic actuator.

Narrow Body, 25A

25A at 12V DC. Switch snaps into panel hole 1.45" x .83" (36.8 x 21.1mm), and fits panels .040" through .100" thick (1.0mm to 2.5mm).

Silver contacts, brass blade terminals. Black or white actuators, imprinted in contrasting black or white. Black narrow steel bezel 1.57" x .90" (39.0mm x 22.9mm) except where noted.



SPST

58506-08, On-Off/Mom On-Off

Left switch, black: On-Off, imprinted "On, Off" Right switch, white : Mom On-Off, imprinted "On, Off". Four terminals.

58506-09*, Hi-Lo/On-Off

Left switch: white actuator imprinted "Hi, Lo". Right switch: black actuator imprinted "On, Off". Three terminals. The On-Off switch controls power to the Hi-Lo switch.

58506-11, On-Off/On-Off

Left switch: On-Off, imprinted "On, Off" Right switch: On-Off, imprinted "On, Off" Black actuators with white imprints. Four terminals.

SPDT

58506-07, Hi-Off-Lo/Hi-Off-Lo

Left switch: On-Off-On, imprinted "Hi, Off, Lo" Right switch: On-Off-On, imprinted "Hi, Off, Lo" Black actuators with white imprints. Six terminals.

Wide-Body, 10A

10A at 12V DC. Pair of switches snaps into panel hole 1.0"W (25.4mm) 1.125"H (28.6mm), and fits panels .030" through .250" thick (.76 to 6.35mm). Actuators are black, white, red or ivory rockers or paddles, with imprint in contrasting black or white. Black plastic bezel. Copper blade terminals.



54201-01, Two Black Rockers, On-Off/On-Off

Left switch: On-Off, imprinted "On, Off" Right switch: On-Off, imprinted "On, Off" Four blade terminals.

54203-01, On-Off/Mom On-Off

Left black paddle switch: On-Off, imprinted "On, Off" Right ivory paddle switch: Mom On-Off, imprinted "On" Four blade terminals.

54204-01, Hi-Off-Lo/Hi-Off-Lo

Left black rocker switch: 0n1-0ff-0n2, imprinted "Hi, Lo" Right black rocker switch: 0n1-0ff-0n2, imprinted "Hi, Lo" Six blade terminals.

54300-01, Red Pilot & Paddle, Mom On-Off

Left: Red independent pilot light Right ivory paddle switch: Mom On-Off, imprinted "On, Off" Four blade terminals.

54401-01, One Rocker, Mom On-Off

Left: Black panel Right black rocker switch: Mom On-Off, imprinted "On" Two blade terminals.

54403-01, One Rocker, On-Off-On

Left: Black panel Right black rocker switch: On1-Off-On2, imprinted "Hi, Lo" Three blade terminals.



C5 ROCKER ACCESSORIES

Bezels for Mounting Switches Side by Side

For snap-in mounting of any regular size switch such as 56027 or 58328 series. Bezels can be arranged in a parallel array of any length. Bezels themselves can snap into a panel, or be mounted with the Bracket Mounting Kit. Height 1.90" (48.3mm). Two units are 2.37"W x 2.30"H (60.2 x 58.4mm). Mounting hole in panel should be 2.02"W x 1.90"H (51.3 x 48.3mm) for two bezels. Add 1.03"W (26.2mm) for each additional unit.



82159-1, End Bezel 📴



82159-2, Center Bezel Can be ganged, and used with end bezels.



82159-3, Independent Bezel Fits panel opening 1.900" x 0.984" (48.3 x 25.0mm)

.

BP Retail Kits 82159-02BP PP Contains 2 end bezels, one center bezel, one plug.

82159-03BP BP Contains 2 center bezels.

Bracket Mounting Kit 87167-01BP



87167-01BP

For installing an array of switches onto a panel, when throughmounting isn't possible. Use in conjunction with 82159 bezels. Holds from 2 to 6 bezels (not included). Snap-together assembly: no special tools needed. Available only as a retail BP unit, which contains two bracket sections and brass stabilizing rods.

Kit brackets engage with bezels. Brass rods snap into brackets to stabilize the unit.

Assembled kit mounts on top of or under the panel. Mounting holes .710" x .265" (18.0 x 6.7mm).

Panel Plug

Black snap-in panel plug fits standard panel hole .83" x 1.45" (21.1 x 36.8mm).

98628, Plug Face dimensions: 1.91" x 0.96" (24.4 x 48.8mm), designed for use with 82159 series.





Five handy kits cover all the electrical types and pilot light combinations. Each kit comes with a set of snap-in pilot light lenses, so it's easy to make up a switch with the lens color you need. See pages 19 & 20.

The five kits are individually retail-packed in clamshell BP units.



C6 54100 SERIES TOGGLE SWITCHES

54100 Series, 25A

Standard or lighted handle – black nylon or clear plastic, 11/16" (17.5mm) long. Silver contacts. Mounting stem 15/32"-32 thread, 15/32" (11.9mm) long, fits panels up to 1/8" (31.8mm) thick. Includes mounting hardware: black metal facenut and nickel-plated hexnut. 25A at 12V DC. Terminals: .250" blade or 6-32 screw.





Illuminated Switch

Standard Switch

SPST

54100, On-Off 📴 🔶

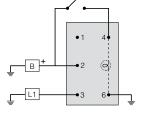
Up: On, Down: Off. Two screw terminals.

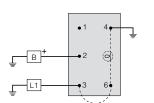
54101-01, Mom On-Off 📴

Up: Mom On, Down: Off. Two blade terminals.

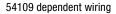
54109, On-Off, Illuminated 📴 🔶

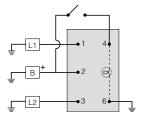
Up: On/Red, Down: Off/White. Four screw terminals. O-ring seal in bushing.

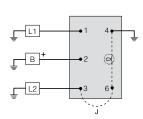




54109 independent wiring







54110 independent wiring

54110 dependent wiring

For wiring of other switches in this series see page 93.

SPDT

54103, On-Off-On B2 Up: On, Center: Off, Down: On. Three screw terminals.

54104, Mom On-Off-Mom On 📴

Up: Mom On, Center: Off, Down: Mom On. Three screw terminals.

54110, On-Off-On, Illuminated 📴

Up: On/red, Center: Off/White, Down: On/White. Five screw terminals. Weather-resistant: O-ring seal in bushing. Independent illumination.

DPST

54105, On-Off Up: On, Down: Off. Four screw terminals.

DPDT

54107, On-Off-On Up: On, Center: Off, Down: On. Six screw terminals.



sealed

Neoprene O-ring seal within the mounting stem protects against moisture and dirt entering around the base of the actuator handle. Some switches are coated in polyvinyl chloride (PVC), providing additional sealing. PVC-coated switches normally have wire leads, which provide complete covering and insulation of the terminals.

dependent or independent?

Dependent Illumination

When the switch is On, the handle is illuminated.

Independent Illumination

Actuation of the switch does not affect the illumination of the handle. The switch can be On or Off, and illumination is usually controlled by another switch. This mode can be used to light a whole bank of switches, and is especially useful for locating switches in the dark.

★ Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.

C7 PADDLE HANDLE TOGGLE SWITCHES

59024-000 Series 1" Paddle Handle Switches 25A

Silver contacts, 15/32"-32 thread mounting stem. Fits panels up to 1/4" (6.4mm) thick. Includes mounting hardware: black knurled facenut, hexnut. Keyway is in the down position. 1" (25.4mm) handle, black plastic, matte finish. 25A at 12V DC. Terminals: Brass 8-32 screw or .250 quick connect blade.



SPST

59024-100, On-Off Up: On, Down: Off. Two blade terminals.

59024-101, On-Off Up: On, Down: Off. O-ring seal in the stem. Two blade terminals.

59024-102, Mom On-Off Up: Mom On, Down: Off. Two blade terminals.

59024-144, Mom On-Off Up: Off, Down: Mom On. Two blade terminals.

59024-200, On-Off Up: On, Down: Off. Two screw terminals.

59024-201, On-Off Up: On, Down: Off. O-ring seal in the stem. Two screw terminals.

59024-202, Mom On-Off Up: Mom On, Down: Off. Two screw terminals.

59024-244, Mom On-Off Up: Off, Down: Mom On. Two screw terminals.

SPDT

59024-104, On-On Up: On, Down: On. Three blade terminals.

59024-106, On-Off-On Up: On, Center: Off, Down: On. Three blade terminals.

59024-108, Mom On-Off-Mom On Up: Mom On, Center: Off, Down: Mom On. Three blade terminals.

59024-204, On-On Up: On, Down: On. Three screw terminals.

59024-206, On-Off-On Up: On, Center: Off, Down: On. Three screw terminals.

59024-208, Mom On-Off-Mom On Up: Mom On, Center: Off, Down: Mom On. Three screw terminals.

DPST

59024-110, On-Off Up: On, Down: Off. Four blade terminals.

59024-210, On-Off Up: On, Down: Off. Four screw terminals.

DPDT

59024-116, On-On Up: On, Down: On. Six blade terminals.

59024-118, On-Off-On Up: On, Center: Off, Down: On. Six blade terminals.

59024-216, On-On Up: On, Down: On. Six screw terminals.

59024-218, On-Off-On Up: On, Center: Off, Down: On. Six screw terminals.

wiring diagrams

See page 93.

눚 Rapid ship item. 🛯 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



C8 FREIGHTLINER TOGGLE SWITCHES

59024-00 Freightliner Replacement Switches 25A

Terminals are arranged to match OEM wiring connectors. With or without brackets. Silver contacts. Black phenolic switch housing with metal cap. 15/32"-32 thread mounting stem.

Fits panels to .093" (2.4mm) with spacer provided, or to .25" (6.4mm) without spacer. Includes mounting hardware: black metal facenut. Keyway is in the down position. Black plastic 1" (25.4mm) handle, matte finish. Tin-plated blade terminals. 25A at 12V DC.



With Mounting Bracket

59024-33, SPST On-Off \bigstar Up: On, Center: Off. Two blade terminals. Dual contacts for extra durability.

59024-34, SPDT On-Off-On

Up: On, Center: Off, Down: On. Three blade terminals. Dual contacts for extra durability.

59024-35, DPST On-Off Up: On, Center: Off. Four blade terminals.

59024-36, DPDT On-Off-On

Up: On, Center: Off, Down: On. Six blade terminals.

59024-37, DPST On-Mom Off

Center: On, Down: Mom Off. Four blade terminals.

59024-38, DPDT Mom On-On-Mom On

Up: Mom On, center: On, Down: On. Six blade terminals.

Without Mounting Bracket

59024-12, SPST On-Off \bigstar Up: On, Down: Off. Two blade terminals. Dual contacts for extra durability.

59024-13, SPDT On-Off-On

Up: On, Center: Off, Down: On. Three blade terminals. Dual contacts for extra durability.

59024-14, DPST On-Off Up: On, Center: Off. Four blade terminals.

59024-15, DPDT On-Off-On \bigstar Up: On, Center: Off, Down: On. Six blade terminals.

59024-16, DPST On-Mom Off Center: On, Down: Mom Off. Four blade terminals.

C9 LIGHTED TIP TOGGLE SWITCHES

M-54111 Lighted Tip Switches 25A

Tip of handle is illuminated Red in the On position, illuminated Clear in the Off position. Silver contacts. 15/32"-32 thread mounting stem. Nickel-plated brass hexnut. Black plastic handle, housing and facenut. Keyway in the down position. Blade terminals. Independent illumination. 25A at 12V DC.

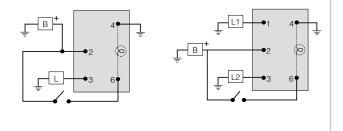
Plastic facenut can be replaced with black metal facenut 83252 (page 91).



M-54111-01, SPST On-Off BP \bigstar Up: On, Down: Off. Four blade terminals.

M-54111-02, SPDT On-Off-On 📴 🔶

Up: On, Center: Off, Down: On. Five blade terminals.





C10 HEAVY DUTY TOGGLE SWITCHES

Standard or long handle. Universal application. Silver contacts. Mounting stem is nickel-plated brass 15/32"-32 thread, 15/32" (11.9mm) long, and fits panels up to 9/32" (7.1mm) except where stated otherwise. phenolic housing, with plated steel cap. Nickel-plated brass mounting hardware. Blade terminals: .250 quick connect. Screw terminals: 6-32 screws. 25A at 12V DC, 15A at 24V DC.



SPST

5520, On-Off 📴 🔶 Up: On, Down: Off. Two screw terminals. O-ring seal.

5582, On-Off P \bigstar Up: On, Down: Off. Two screw terminals. Silver contact surfaces.

5582-10, On-Off, PVC Coated Up: On, Down: Off. Two 8" (203.2mm) leads. O-ring seal. Mounting stem is 11/32" (8.7mm) long, and fits panels up to 3/16" (4.8mm) thick. Silver contact surfaces.

55014, On-Off 📴 ★

Up: On, Down: Off. Two blade terminals. Silver contact surfaces.

55014-05, On-Off Up: On, Down: Off. Two blade terminals. O-ring seal in the stem. Silver contact surfaces.

55023, On-Off

Up: On, Down: Off. Two screw terminals with 2 blades attached.

55055, On-Off, Long Handle 📴

Up: On, Down: Off. Two blade terminals. Silver contact surfaces.

SPST Momentary

55020, Off-Mom On 📴 🔶

Up: Off, Center: Mom On. Two screw terminals. Silver contact surfaces.

55020-04, Off-Mom On, PVC coated 🔶

Moisture- and dirt-resistant. PVC coated and sealed with an O-ring seal in the stem. Up: Off, Down: Mom On. Two 8" (203.2mm) leads. Silver contact surfaces.



55052-01, On-Mom Off, long handle Up: On, Center: Mom Off. Two blade terminals. Silver contact surfaces.

SPDT

5584, On-On \bigstar Up: On, Down: On. Three screw terminals. Silver contact surfaces.

5586, On-Off-On 📴 🔶 Up: On, Center: Off, Down: On. Three screw terminals. Silver contact surfaces.

55015, On-On Up: On, Down: On. Three blade terminals. Silver contact surfaces.

55016, On-Off-On Up: On, Center: Off, Down: On. Three blade terminals. Silver contact surfaces.

55036, On-Off-On, PVC Coated 📴 🔶

Up: On, Center: Off, Down: On. PVC coated housing, with three 9.5" (241.3mm) leads. Leads have tinned brass terminals. O-ring seal in the stem.



SPDT Momentary

55021, Mom On-Off-Mom On 💷 ★

Up: Mom On, Center: Off, Down: Mom On. Three screw terminals. Silver contact surfaces.

55021-07, Mom On-Off-Mom On, PVC Coated 💷 📩

Up: Mom On, Center: Off, Down: Mom On. PVC coated housing with three 8" (203.2mm) leads. O-ring seal in the stem. Mounting stem is 11/32" (8.7mm) long, and fits panels up to 3/16" (4.8mm) thick.

55033-01, Mom On-Off-Mom On 📩

Up: Mom On, Center: Off, Down: Mom On. Three blade terminals. Silver contact surfaces.

55088, On-Off-Mom On 🌟

Up: On, Center: Off, Down: Mom On. Three screw terminals. Silver contact surfaces.

DPST

55017, On-Off BP \bigstar Up: On, Down: Off. Four blade terminals. Silver contact surfaces.

DPDT

5590, On-On \bigstar Up: On, Down: On. Six screw terminals. Silver contact surfaces.

5592, On-Off-On P \bigstar Up: On, Center: Off, Down: On. Six screw terminals. Silver contact surfaces.

55018, On-On BP 🔶 Up: On, Down: On. Six blade terminals. Silver contact surfaces.

55019, On-Off-On P \bigstar Up: On, Center: Off, Down: On. Six blade terminals. Silver contact surfaces.

55057, On-Off-On, Long Handle 🔶

Up: On, Center: Off, Down: On. Six blade terminals.

DPDT Momentary

55054, Mom On-Off-Mom On P \bigstar Up: Mom On, Center: Off, Down: Mom On. Six screw terminals. Silver contact surfaces.

55054-04, Mom On-Off-Mom On, Long Handle Up: Mom On, Center: Off, Down: Mom On. Six screw terminals. 55065-02, Mom On-Off-Mom On, Long Handle 🔶

Up: Mom On, Center: Off, Down: Mom On. Six blade terminals. Silver contact surfaces.

55065-03, Mom On-Off-Mom On 📴 🔶

Up: Mom On, Center: Off, Down: Mom On. Six blade terminals. Silver contact surfaces.

DPDT Reversing Polarity

Forward/reverse switch for use with permanent magnet motors.

55046, Mom On-Off-Mom On 🔶

Up: Mom On, Center: Off, Down: Mom On. Four blade terminals.

C11 MEDIUM DUTY OFF-ON SWITCHES

SPST Down: Off, Up: On. Standard or ball handle. Nickel-plated brass handle, facenut and mounting stem. Silver contacts. Mounting stem has 15/32"-32 thread, 15/32" (11.9mm) long, and fits panels up to 9/32" (7.2mm) thick. Screw or blade terminals, or wire leads. Phenolic housing with plated steel frame. Keyway is in the down position. 10A at 12V DC.

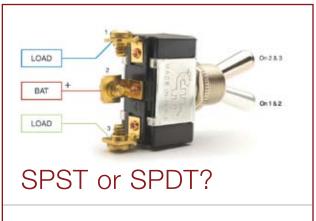


Ball handle: 3/8" (9.52mm) long.



Standard handle: 11/16" (17.46mm) long.

5507, Ball Handle, Two Screw Terminals 5558, Standard Handle, Two Screw Terminals 5568, Ball Handle, to 6" Leads



Check out page 92 for a graphic explanation of SPST SPDT DPST and DPDT.

📌 Rapid ship item. 📴 Available in retail clamshell pack. \star Minimum order quantity may apply.



C12 551800 SERIES TOGGLE SWITCHES

551800 Series Heavy Duty & Extra Heavy Duty Switches 20A and 30A

Universal application. Diecast housing. For stem- or bracket-mounting. 15/32"-32 thread mounting stem, with keyway.

Brackets: .170" (4.3mm) diameter holes, 1.72" (43.7mm) on centers. Fits panels up to 3/16" (4.8mm) thick. Chrome plated brass handle, 1 1/16" long (27.0mm). Steel screw or blade terminals. Plated steel hexnut.



Heavy Duty

20A at 6-12V DC.

551000*, SPST On-Off Up: On, Center: Off. Two blade terminals.

551001, SPST Mom On-Off Up: Mom On, Center: Off. Two blade terminals.

551800, SPST On-Off Up: On, Center: Off. Two screw terminals.

551801, SPST Mom On-Off Up: Mom On, Center: Off. Two screw terminals.

551802, SPDT On-Off-On Up: On, Center: Off, Down: On. Three screw terminals.

551805, SPDT On-Off Up: On, Center: Off. Four screw terminals.

551806, DPDT On-Off-On Up: On, Center: Off, Down On. Six screw terminals.

M-594, SPST On-Off Up: On, Center: Off. Two screw terminals. Golden dichromate dip housing, brass terminals.

interactive catalog

Check the Cole Hersee website at **www.colehersee.com** You can do an interactive search for the exact item you need by going to 'Product Catalog'. And there's *an abundance of other product information, such as* technical drawings and specs.

Extra Heavy Duty

30A at 6-12V DC, 15A at 24-36V DC. Silver-plated contacts.

551840, SPST On-Off 🖭 🔶 Up: On, Center: Off. Two screw terminals.

551841, SPST Mom On-Off

Up: Mom On, Center: Off. Two screw terminals. This universal switch can also be used to control day signaling lamps.

551842, SPDT On-Off-On 📴 🔶

Up: On, Center: Off, Down: On. Three screw terminals.

551843, SPDT On-Off-Mom On Up: On, Center: Off, Down: Mom On. Three screw terminals.

551844, SPDT Mom On-Off-Mom On Up: Mom On, Center: Off, Down: Mom On. Three screw terminals.

551845, DPST On-Off Up: B-2, Center: Off. Four screw terminals.

551846, DPDT On-Off-On \bigstar Up: On, Center: Off, Down: On. Six screw terminals.

551849, SP3C On-On-Off Up: B-T-H, Center: B-P-T, Down: Off. Four screw terminals. This universal switch can also be used to control headlamps and Park & Tail lamps.

551850, SPDT On-On Up: On, Center: On. Three screw terminals.

551851, SPST On-Mom Off Up: Mom Off, Center: On. Two screw terminals. This universal switch can also be used to control night signaling lamps.

551852, SP2C On-On-Off Up: B-H, Center: B-L, Down: Off. Three screw terminals. This universal switch can also be used to control heaters/defrosters. Supplied without resistors.

551855, SP1C Mom Off-On-Off Up: Mom Off, Center: On, Down: Mom Off. Two screw terminals. This universal switch can also be used to control signaling and marker lamps.

551861*, SP2C On-Off Up: On B-1&2, Center: Off. Three screw terminals.

551862, DP2C Mom On-Run-Off

Up: Mom S-S, Center: Open, Down: Off M-M. Four screw terminals. This universal switch is primarily used to control magneto ignition. For battery ignition see 59071 and 55094.



C13 SPECIALIZED TOGGLE SWITCHES

Silver contacts. 15/32"-32 thread mounting stem, .46" (11.9mm) long, mounts in panels up to 9/32" (7.1mm) thick. Nickel-plated brass handle: standard .687" (17.5mm) or long 1.5" (38.1mm). Brass blade terminals. Black phenolic housing with metal frame. Nickel-plated brass hardware. Keyway is in the down position. 25A at 12V DC, except as noted.

55058-01, 4-Pole, 4-Circuit Headlamp Switch

Allows splitting of a heavy load into four separate circuits. Eight blade terminals. Long handle. Up: Park, Tail & Headlamps– Center: Off – Down: Park, Tail & Auxiliary Lamps.



55064, DPDT 4-Circuit Headlamp Switch

Up: Park, Tail & Headlamps – Center: Off – Down: Park, Tail & Auxiliary Lamps. Six blade terminals. Long handle.



55071, DP 2-Circuit Marker Lamp Switch

Up: Mom On B, 1&2 (day signaling) – Center: On 1&2 – Down: Mom Off (night signaling). Three blade terminals. Standard handle.





M Marker lamps S To Marker lamps switch

55015-03*, 3-Way Lighting Switch SPDT On-On. Three blade terminals.



📩 Rapid ship item. 🛯 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



DP Ignition/Start

59071, Off-On-Mom On 25A at 12V DC Down: Off, Center: On 4&5, Up: Mom On 1, 4&5. White plastic handle. Three blade terminals.



Recessed Switch

5543, SPST Off-On Switch In Recessed Plate 🔶

Silver contacts. 15/32"-32 thread mounting stem, .46" (11.9mm) long, mounts in panels up to 9.32" (7.1mm) thick. Brass blade terminals. Black phenolic housing with metal frame. Keyway is in the down position.

5558 switch mounted in 5543-15 recessed plate to prevent damage or accidental actuation inside a trailer or other location. Plate fits into a 2" dia (50.8mm) panel hole. Depth is 1.75" minimum (44.5mm).Two screw terminals. Also available: 5543-09 recessed plate with 55015-03 SPDT On-On switch (suitable for 3-way lighting applications). Recessed plate is available in different colors, by special order– contact Cole Hersee.



5543-15, Recessed Faceplate Switch Guard

Faceplate only: does not include switch. Needs to be countersunk in a 2" (50.8mm) hole. 3 3/16" (81.0mm) diameter with three 7/32" (5.6mm) holes on a 2 3/4" (69.9mm) diameter circle. Requires a clearance depth of .890" (22.6mm), not including clearance for a switch. Other colors, metals and finishes are available on special order. Contact Cole Hersee.



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C14 ACCESSORIES

Switch Guard

82468, Flip Cover Switch Guard 📴 🔶

Provides the maximum protection, and can be easily added to an already installed switch by unscrewing and replacing the facenut. Spring-loaded snap action cover returns the switch to the 'safe' position when closed, and secures it there. Rugged red melamine cover is colorfast at temperature extremes and is resistant to most contaminants, like fuel oil. Other colors are available by special order. Recommended for use with standard 11/16" toggle handle Off-On or On-On switches with a keyway in the bushing. Steel faceplate with black glossy finish. Height closed 1.08" (27.4mm); height open 1.71" (43.5mm). 1.80"(45.8mm) long x .67" (17.0mm) wide. Mounting hole diameter .47" (11.9mm). Accepts switches with standard 15/32" diameter mounting stems.





With cover up.

With cover closed.

Handle Extensions

Rigid plastic extension snaps over standard or ball handled toggle switches, extending a standard handle to 1 7/8" (47.6mm) long. Enables switches to be easily color-coded. Packed 10 of each color per package.





- 81262, Fluorescent Blue
- 81263, Fluorescent White

Faceplate

81271, Red 81272, Yellow

81273. Black

8250, Nickel-Plated 🔶

Fit all toggle switches with standard 15/32" diameter mounting stem and keyway. Nickel-plated steel. 1" x 5/8" (25.40 x 15.87mm). Stamped On, Off.



83252 Black Facenut

Brass facenut, black finish. For 54100 series switches, to replace plastic facenut.



Terminal Blade Adapter

55023-10

Attaches to a No. 6 screw terminal, converting to a standard 1/4" wide blade terminal. Brass. 100 pieces per package.



Toggle Boot Seals

Durable silicone rubber bonded to a standard 15/32"-32 thread nickel plated brass hexnut. When the nut is tightened to the stem of a toggle switch, the rubber forms an O-ring seal with the panel. Full boots completely cover a standard 11/16" (17.5mm) handle. Boot seals protect switches from moisture and dirt.

81264, Gray 📴 🔶

81264-01, Black 📴





0-Ring Seal

Half-Boot Seal

81255 📴 🔶

Allows any length of handle to protrude, yet seals tightly to handle. Suitable for all toggle switches in this catalog excepting squared handle switches as on page 26.



0-Ring Seal



b battery-related products

D1 MASTER DISCONNECT SWITCHES

Single Pole

Two positions: Off-On. For 6-36V DC systems. Will disconnect the battery circuit only. Electrical Ratings (unless noted): 1000A intermittent, 175A continuous. UL Listed 707B: 800A intermittent, 175A continuous. UL Listed 375M: 250A at 6V, 125A at 12V intermittent; 40A at 6V, 20A at 12V continuous. Electrical ratings on UL labels are conservative.

With Diecast Lever

2484-16 🔶

Mounting stem: Brass, 3/4" -16 thread, 23/32" (18.3mm) long. Fits panels up to 3/16" (4.8mm) thick. Terminals: Two 3/8" -24 studs. Case: Plated steel. Contacts: Silver. UL labeled.



2484-A 🌟

Same as 2484-16, but without UL label.

2484-09 🌟

Same as 2484-16, but with copper contacts, and without UL label.

2484-06 🜟

Same as 2484-16, but weather-resistant with O-ring seal in operating shaft, gasket-sealed terminal insulation and sealant in mounting stem and case, and without UL label.

2484 🔶

Same dimensions as 2484-16, but with copper contacts and ratings: UL labeled.

M-284-01, Long Stem, Brass Case 📴 ★

Mounting stem: Brass 3/4" -16 thread (19.1mm), 1 13/32" (46.1mm) long. Fits panels up to 15/16" (23.8mm) thick. Terminals: Two 3/8" (9.5mm) diameter studs. Actuator: Chrome-plated lever. Silver-laminated contacts. UL labeled.





M-284 📴 🌟

Same as M-284-01, but with copper contacts, and UL label.

M-284-A 📴 ★

Same as M-284-01, but without UL label.

M-284-02, Weather-Resistant 📴 🔶

Same as M-284-01, but with O-ring seal in operating shaft, gasket-sealed terminal insulator and diecast lever with protective dichromate finish, and without UL label.

Also available with faceplate (M-284-09BP)

75908, 2000A, High Current, Weather-Resistant 🔶

Disconnects battery circuit only. Electrical rating: 2000A intermittent. 30 seconds On, 3 minutes Off, 300A continuous. Mounting stem: 3/4" -16 thread. Fits panels up to 1/4" (6.4mm) thick. Terminals: Two 1/2" -20 copper studs. Case: Plated steel. Sealing: sealed between shaft and mounting stem; case and terminal insulator.

Also available as double pole (75907)



With Hencol Lock

2484-02

Mounting stem: Brass, 3/4" -16 thread 17/32" (13.5mm) long. Fits panels up to 1/4" (6.4mm) thick. Terminals: Two 3/8" -24 studs. Plated steel case, silver-laminated contacts. Hencol lock and 2 keys. Indexing pin.



wiring

See page 96.

★ Rapid ship item. 📴 Available in retail clamshell pack. \star Minimum order quantity may apply.



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Double Pole

Two positions: Off-On. For 6-36V DC systems. Will disconnect the battery and the alternator or generator field circuit. Electrical ratings: Large studs: 1000A intermittent. 15 seconds On, 5 minutes Off. 125A continuous (unless noted). Small studs: 20A continuous.

With Diecast Lever

75903, Steel Case 🔶

Chrome-plated diecast lever. Plated steel case. Brass mounting stem 3/4" -16 thread 23/32" (18.3mm) long. Fits panels through 3/16" (4.8mm) thick. Two 3/8" -24 and two 10-32 studs.



75904, Steel Case, Silver Contacts 🔶

Same as 75903, but with laminated silver contacts.

M-290-05, UL-Listed 🔶

Brass case. Silver laminated contacts. Chrome-plated diecast lever. Brass mounting stem 3/4" -16 thread 1 13/32" (46.1mm) long. Fits panels through 15/16" (23.8mm) thick. Two 3/8" -24 and two 10-32 studs. Labeled UL 707B.



75904-01, Weather-Resistant, with Indexing Pin and O-Ring 🔶

Diecast lever. Plated steel case. Silver-laminated contacts. Brass mounting stem 3/4" -16 thread 17/32" (13.5mm) long. Fits panels through 1/4" (6.4mm) thick. Two 3/8" -24 and two 10-32 studs. O-ring seal in the operating shaft, and gasket-sealed terminal insulator.



75907, 2000A, High Current, Weather-Resistant 🚖

Electrical ratings: Large studs: 2000A intermittent, 30 seconds On, 3 minutes Off. 300A continuous. Small studs: 20A continuous. Plated steel case. Chrome-plated diecast lever. Mounting stem 3/4" -16 thread,



fits panels through 1/4" (6.4mm) thick. Two 1/2" -20 copper and two 10-32 studs. Sealed between shaft and mounting stem, and case and terminal insulator. With indexing pin.

Also available as single pole (75908).

With Hencol Lock

75904-02

Two Hencol keys. Plated steel case. Silver-laminated contacts. Brass mounting stem 3/4" -16 thread 17/32" (13.5mm) long. Fits panels through 1/4" (6.4mm) thick. Two 3/8" -24 and two 10-32 studs. With indexing pin.

75904-03

Same as 75904-02, except with 0-ring seal in the operating shaft.

For Two High Current Loads



Electrical ratings: 125A continuous, 750A intermittent; 15 secs On, 5min Off. Up to 36V DC max, carry only. Silver contact surfaces. Both poles are separately insulated.



Four 3/8" -24 studs. Lockwasher and two brass hexnuts per stud are provided. 3/4" -16 brass mounting stem. Operating temperature range: -40° to 85°F (-40° to 29°C) O-ring seal in mounting stem; gasket seal at terminal insulator. Epoxy seal at case, mounting stem and locating pin. Heavy duty plated steel case. With indexing pin. Mounting torque 20ft lbs (27 Nm); stud torque 4.4 to 7.4 ft lbs (6-10Nm).



D2 BATTERY SELECTOR/ MASTER DISCONNECT SWITCHES

For any vehicle that needs to use two batteries where one battery is used for starting the engine, while the other is used to power auxiliary loads. This is a common situation in trucks, boats, RVs, police and rescue vehicles, and in ambulances and fire equipment.

M-750, Basic Switch 🔶





M-751, With Keys See chart on next page for additional models.



LISTED LISTE

Back of Switch



Model M-754 is shown. The three small terminals in the middle are for connection to the pilot light circuit. M-754-01, M-755 and M-755-01 are similar.

Models M-752 and M-753 have two small terminals in the middle marked F1 and F2 for connection to the Alternator Field Disconnect circuit.

 $M\mathchar`-750$ and $M\mathchar`-751$ have no small terminals in the middle. Full wiring instructions are included.

A selector switch allows use of the first battery, the second battery, or both batteries simultaneously. This provides back-up starting power in an emergency. Either or both batteries can be selected for energizing.

These switches combine the functions of Battery Selector and Master Disconnect Switches to give four battery power options:

- Power cut off at the source.
- Power On, Battery 2.
- Power On, Battery 1.
 Power
- Power On, both Batteries.

Battery selector switches provide a positive battery disconnect, which has many advantages:

- It gives a reliable shutdown of power during maintenance.
- The version with the key protects against theft of the vehicle, when unattended.
- It helps protect against electrical fires, when the vehicle is not in use, and minimizes battery drain.



Electrical Ratings

Labeled UL 707B. Rating: 500A intermittent, 310A continuous, 6-36V DC

Electrical ratings on UL labels are conservative. Use with either alternators or generators. Make before break design permits operation through the three On positions with the engines running. Engines should always be shut down before turning to Off. Wiring instructions are included.

Heavy-Duty Construction

Vaporproof, weather-, dust- and corrosion-resistant. Durable, fracture-resistant high temperature plastic case, knob and insulator. Switches conform to USCG section 183.410 for ignition protection. Resistant to impact, and temperature extremes.

Heavy duty copper stud terminals, with brass hexnuts. Can be surface mounted, or installed through a 3 5/16" diameter hole in the panel (use label No. 563. See Section F4.) Dimensions: Flange: 6" (152.4mm) diameter, overall height 2 5/8" (66.7mm). Terminals: 3 copper studs, 3/8" (9.5mm) diameter.

Eight Models For Every Application:

MODEL	Lock	AFD	Pilots	Pilot Circuit
M-750 ★				
M-751	 Image: A second s			
M-752		1		
M-753	1	1		
M-754				√
M-754-01			√	√
M-755	 Image: A second s			1
M-755-01	1		 Image: A start of the start of	1

Lock: With key lock and two keys. AFD: Alternator field disconnect circuit switch. Prevents possible alternator diode failure if the switch is accidentally turned to Off with the engines runnina.

Pilots: Supplied with two separate green pilot lights PL-118-GC001.

Pilot Circuit: With pilot indicator light circuit.



D3 ACCESSORIES

24505, Lockout Lever Kit 🔶

Special lever and flange plate accept a padlock to securely lock a Disconnect Switch in the Off position, which is required by many lock-out/tag-out safety regulations. For use with Cole Hersee lever actuated master disconnect switches with a 3/4" diameter (19.1mm) mounting stem: 2484, 2484-A, 2484-06, 2484-09,

2484-16, 75903, 75904, 75904-01, M-284, M-284-A, M-284-01, M-284-02, M-289, M-290, M-290-01, M-290-05. (We recommend the use of a padlock with a 5/16" (7.9mm) diameter shackle.)



lockouts/tagouts

Lockouts and tagouts prevent operators, technicians and maintenance personnel from unanticipated power-ups that might cause injury or death.

According to OSHA, "A lockout device utilizes a positive means such as a lock to hold an energy isolating device in a safe position and prevent the energization of a machine." A tagout is a tag or seal that states 'Do not operate or remove this tag' and is signed by the person who places the tagout. Procedures specify that nobody but that person may remove the tag.

A lockout on a battery switch not only keeps a vehicle safe, but also immobilizes it. A locked out vehicle is less vulnerable to battery drain or theft.

80101-B, Replacement Lever

Chrome-plated diecast lever. Fits all Cole Hersee lever-actuated Master Disconnect Switches.



83353, Hencol Key For Hencol trouble-free

locks. Heavy gauge plated steel resists corrosion.



Face Plates

82065, Without Indexing Hole

For Master Disconnect Switches. Polished aluminum with enamel finish. Fits Cole Hersee Master Disconnect Switches without indexing pin. 2 1/2" (63.5mm) diameter.



82065-02, With Indexing Hole

563 Switch Position Label for M-750 Series

Pressure-sensitive label for Dual Battery Selector & Master Disconnect Switches. Useful when the switch is mounted through a panel.

Battery Jumper Terminals and Studs

Use them to make easily-accessible battery connections, inside or outside the vehicle. Can be used individually or in pairs. Easy to install. Solid brass posts. Includes brass hexnut and lockwasher. Jumper terminals have contact post 13/16" (20.6mm) diameter, 1 1/8" (28.8mm) long, which is grooved to accept standard jumper cables 6-48V DC.

46210-02, Post with Red Cap for Positive Terminals \star

97846-A, Replacement Red Cap



46210-03, Post with Black Cap for Negative Terminals 🜟 97846-B, Replacement Black Cap



46211-01, Black Battery Feeder Stud † Same as 46211-R, only black plastic.





46211-R, Red Battery Feeder Stud

Brings 6-36V DC power through bulkheads or firewalls. Impactresistant plastic insulator/mounting bushing, 1 17/64" (32.1mm)

diameter, 5/8" (15.9mm) long. Two 3/8" -16 thread brass stud terminals, 5/8" (15.9mm) long.

3188, Copper Cable Terminal

0.46" (11.7mm) diameter for 0AWG or 00AWG cable. 150A. 13/32" (10.3mm) diameter hole for 3/8" (9.5mm) stud.



D4 BATTERY ISOLATORS

For vehicles with two batteries, these devices electrically isolate the batteries to prevent the battery with the higher charge from draining into that with the lower charge. In addition, both batteries can be charged simultaneously from one source.

For 12-36V DC negative ground systems (48051 is for 12V DC only). The electronic components are embedded to give excellent protection from adverse conditions, such as contamination and vibration. The integral heat sink provides efficient heat dissipation. The amp rating of each item is the maximum alternator rating.

Most alternators on new vehicles have an integral electronic voltage regulator that requires the use of the 4-stud battery isolator. The small 4th stud is for connection to a circuit switched by the ignition switch. The newer alternators were first introduced by Delco and are therefore sometimes called 'Delcotron-type alternators'. Battery Isolators have a 'per leg' rating which indicates the maximum current that it can deliver to each battery. All Cole Hersee Battery Isolators have a per leg rating equal to half the alternator rating. Thus a 48092 battery isolator with an alternator rating of 90A has a per leg rating of 45A per leg.

4-Stud General Purpose Isolators

For use with Delcotron-type alternators. Four studs.

48092, 90 Amp

Terminations: three 1/4" (6.4mm) studs and one No. 10 stud. Two 9/32" (7.2mm) diameter mounting holes. Size: 6 1/2"L x 3 1/4"W x 2 13/16"H (165.0 x 82.6 x 71.0mm).



48122, 140 Amp

Terminations: three 5/16" (7.9mm) studs and one No.10 stud. Four 9/32" (7.2mm) diameter mounting holes. Size: 6"L x 4 13/16"W x 3 11/32"H (152.4 x122.2 x 84.9mm).



48162, 200 Amp

Terminations: three 5/16" (7.9mm) studs and one No.10 stud. Four 9/32" (7.2mm) diameter mounting holes. Size: 8 1/2"L x 4 3/16"W x 3 13/32"H (215.0 x 122.2 x 86.5mm).



3-Stud Battery Isolators

For use with alternators that do not have an integral electronic voltage regulator.

48080, 42 Amp

Terminations: one 10AWG 6" (152.4mm) wire lead, two 12AWG wire leads. Two 13/64" (5.2mm) diameter mounting holes. Size: 5^{H} L x 3 1/4"W x 2 3/16"H (127.0 x 82.6 x 71.0mm).



48070, 70 Amp

Terminations: three 1/4" (6.4mm) studs. Two 9/32" (7.2mm) diameter mounting holes. Size: 5"L x 3 1/4"W x 2 3/16"H (127.0 x 82.6 x 71.0mm).





48090, 90 Amp

Terminations: three 1/4" (6.4mm) studs. Two 9/32" (7.2mm) diameter mounting holes. Size: 6 1/4"L x 3 1/4"W x 2 3/16"H (165.0 x 82.6 x 71.0mm).



48120, 140 Amp

Terminations: three 5/16" (7.9mm) studs. Four 9/32" (7.2mm) diameter mounting holes. Size: 6 1/4"L x 4 3/16"W x 3 11/32"H (152.4 x 122.2 x 84.9mm).



48160, 200 Amp

Terminations: three 5/16" (7.9mm) studs. Four 9/32" (7.2mm) diameter mounting holes. Size: 8 1/2" L x 4 3/16" W x 3 13/32" H (215.0 x 122.2 x 86.5mm).



For Ambulances

Used to isolate medical equipment batteries from vehicle batteries. With Schottky diode, to comply with Federal Specification KKK-A-1822B for ambulances.

48051, 75 Amp at 12V DC

Two studs, two mounting holes. Size: 5" L x 3 1/2" W x 3 1/3" H (125.4 x 88.9 x 84.9mm).



48161, 250 Amp

Same as 48160, but with Schottky diodes. Terminations: three 5/16" (7.9mm) studs. Four 9/32" (7.2mm) diameter mounting holes. Size: 8 1/2"L x 4 3/16"W x 3 13/32"H (215.0 x 122.2 x 86.5mm).



D5 LOW VOLTAGE DISCONNECT SWITCHES

SureStart[™] Automatic Low Voltage Disconnect Switch 48510

Ensures ample starting capacity and prolongs battery life. Automatically disconnects non-critical loads from a battery when the battery voltage falls below a predefined threshold. Automatically reconnects the loads to the battery when it is being charged. Manual override permits a user to make or break the connection, regardless of battery voltage. Overcurrent, Short-circuit and over-temperature protection. 200A 12V DC

Optional output for a visual or audible alarm.Optional Run/Ign override.



No more stranded vehicles and jumpstarts! SureStart[™] LVD helps reduce fleet downtime and battery warranty issues. SureStart[™] LVD saves batteries on vehicles that are idle for extended periods, such as rental fleets, agricultural vehicles and construction equipment.

See page 99 for wiring schematic. Check out the Cole Hersee website for related items.

눚 Rapid ship item. 📲 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



solenoids & relays

STEEL & PHENOLIC BODY SOLENOIDS

85A except where noted. Normally Open contacts, SPST, One circuit: Off - On. Housings: Plated steel (Phenolic where noted). Contacts: Copper 5/16" -24 thread, hexnuts and lockwashers included. 200A

Continuous Duty

E1 |



24144, 200A 🌟

Electrical Rating: 200A carry only.

Not to break 200A at 24V DC. Silver contacts.

눚 Rapid ship item. 🗉 Available in retail clamshell pack. 🗶 Minimum order quantity may apply.

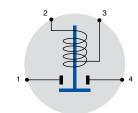


solenoids & relays

24143, 200A 🔶

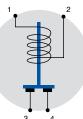
Electrical Rating: 200A carry only. Not to break 200A at 24V DC. Silver contacts.



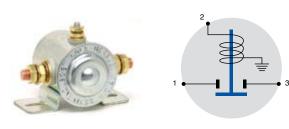


24420, Normally On Continuous Duty 35A.

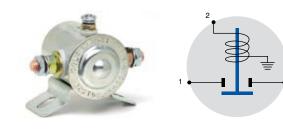




12V Grounded 24106 📴 🔶

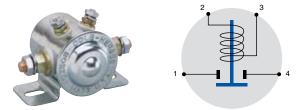


24082, Curved Bracket 🔶



6V

24097, Insulated

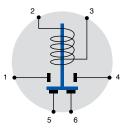


Two Circuits, DPST

Normally Off and Normally On. Special application: for forward and reverse systems in electric golf carts, garden tractors, fork lift trucks, winches, etc. Housing: Steel. Continuous Duty, Normally Closed contacts 35A, Normally Open contacts 85A.

24400, 36V Insulated





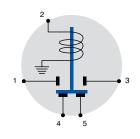
24402, 24V Insulated Schematic and picture same as 24400.

24401, 12V Insulated 🔶

Schematic and picture same as 24400. PVC coated model: see 24401-04.

24401-01, 12V Grounded 🔶



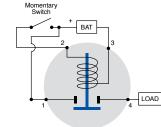


Latching Solenoid

12V Continuous Duty, 110A (carry only). Insulated. Plated steel housing. Requires only a momentary application of coil power to operate. Very little heat is generated, because the coil is de-energized when the solenoid is On.

24200





★ Rapid ship item. \, 📴 Available in retail clamshell pack. \star Minimum order quantity may apply.

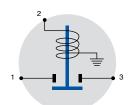


Intermittent Duty

Normally Off, SPST, One Circuit: Off - On

750A make, 100A break, 10sec On, 20min Off, except where noted. Contacts: Copper. Terminals: Copper. Small ignition and ground terminals are 10-32 thread. Large contact terminals are 5/16" -24 thread. Hexnuts and lockwashers are included. Bracket mounting holes 5/16 x 19/32," 2 13/64" on centers (7.9 x 15.1, 56.0mm) and plated steel housing, except where noted.

12V GROUNDED



24037 🛨 PVC coated model: see 24071, page 43.



24044, Curved Bracket 🔶

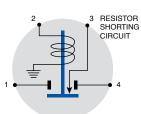


24022, Phenolic Housing 🔶 Bracket mounting holes 9/32" x 25/64," 2 7/64" on centers (7.1 x 9.9, 53.6mm).



12V GROUNDED,

Resistor Shorting Circuit In this application, 3 is Normally Open. It becomes common with 1 and 4 when the solendoid is energized. Commonly used in engine starting applications.







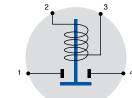
24021, Phenolic Housing 🔶

Bracket mounting holes 9/32 x 1/2," 2 13/64" on centers (7.2 x 12.7, 56.0mm). Contact terminal 5/16" -24 thread.



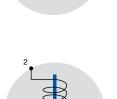
12V INSULATED 24047 📩



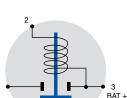


24060







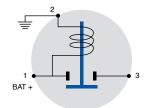


눚 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



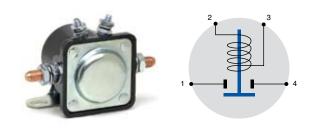
24046





24023, Phenolic Housing

Bracket mounting holes 5/16" x 9/32," 2 9/16" on centers (8.1 x 7.2, 65.1mm).



2430, Phenolic Housing



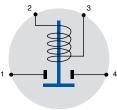


Weatherproof: Housing is completely PVC coated. Steel housings.

Continuous Duty

Insulated SPST, Normally Off (except 24401-04). One circuit: Off - On. Bracket mounting holes 5/16" x 19/32" (7.9 x 15.1) on 2 13/64" centers (56.0mm).





24063-08, UL Listed 24V SPST Continuous Duty: 65A at 24V DC Intermittent Duty: 120A make, 65A break. 10 sec On, 30 min Off.



24117, 12V SPST 🌟

Continuous Duty: 85A.

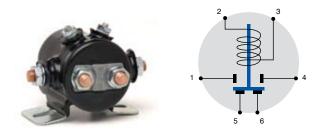
24117-01, 12V SPST UL Listed 📴 🔶

Continuous Duty: 65A at 12V DC Intermittent Duty: 750A make, 100A break. 10 sec On, 30 min Off.



24401-04, 12V SPDT

Normally Closed contacts 35A, Normally Open contacts 85A. Without PVC coating: see 24401Intermittent Duty SPST, normally Off, 750A make, 100A break 750A make, 100A break. 10 sec On, 20 min Off. Bracket mounting holes 5/16 x 11," 2 13/64" on centers (7.9 x 15.1, 56.2mm). Contact terminals 5/16" -24 thread.



Intermittent Duty

24071, Grounded 12V SPST





power on, power off

Color-coded buttons make it easy to select On and Off functions. See page 51.

눚 Rapid ship item. III Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



E3 PLASTIC BODY SOLENOIDS

Glass-filled nylon construction - lightweight, durable and resistant to corrosion.

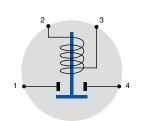
Heavy Service, 225A



For use with heavy vehicles, materials handling, hydraulic systems, large DC machinery, and electric vehicles. SPST normally open contacts. Insulated. 12-48V DC.

L bracket. Large studs: 5/16"-24, two 10-32 stud coil terminals. 12V silver contact, 50k cycles. Copper contact. Maximum operating voltage 14V DC, cycle life 25,000 minimum. 36V type: maximum operating voltage 36V DC, cycle life 50,000 minimum. 48V type: maximum operating voltage 48V DC. Cycle life: 50,000 minimum. Bracket mounting holes 5/16" x 19/32" (7.9 x 15.1) on 2 13/64" centers (56.0mm). Other types available by special order.





Continuous Duty

225A make and break, 600A inrush.

24848, 48V Silver contacts.

24836, 36V Silver contacts.

24824-01, 24V Silver contacts.

24812, 12V Copper contacts.

24812-01, 12V Silver contacts.

Intermittent Duty

600A inrush. 24824-04, 24V Copper contacts.

24812-04, 12V Copper contacts.

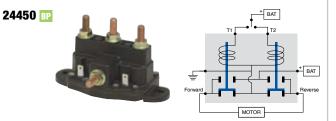
Motor Reversing Solenoid 12V



DPDT intermittent duty. 12V DC. Common ground coil. Two blade coil terminals, 5/16" -24 large studs. Copper contacts. F bracket. 75A make and break, maximum On time 5 mins. 125A make and break, maximum On time 30 secs. 150A make and break, maximum On time 0.5 secs. Allow 5 mins Off after max On time. Maximum operating voltage 14.5V DC. Cycle life 10,000 cycles at 5 secs On, 25 secs Off. Shipped with mounting hardware.

Use in conjunction with one of many types of Cole Hersee SPDT momentary switches: rocker (such as 58027-04), rotary (such as 72154-01/02) or ignition-type keyed switch (such as 75705-01).

Also available as 24V: 24450-02 with same rating as 24450. Contact Cole Hersee.

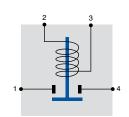


Continuous Duty, 100A

For starting small engines, including lawn tractors, golf carts and sweepers. SPST normally open contacts. 100A make and break, 400A inrush. Silver contacts. Maximum operating voltages: 14V for 12V type; 27V for 24V type; 36V for 36V type. Large studs: 5/16" -24.

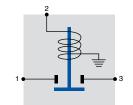


Insulated. Shown: F bracket, stud terminals.





Grounded. Shown: F bracket, stud terminal.



24636, 36V Insulated L bracket, two 10-32 stud coil terminals.

24624-10, 24V Insulated F bracket, two 10-32 stud coil terminals.

24512-10, 12V Insulated BP F bracket, two blade coil terminals.

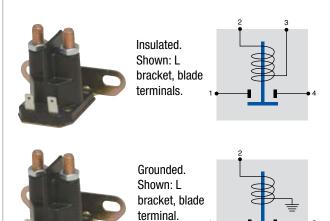
24612-10, 12V Grounded BP F bracket, one 10-32 stud coil terminal.

🔶 Rapid ship item. 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



Intermittent Duty, 200A

12V DC SPST normally open contacts. 200A make and break, 5 secs On, 5 secs Off. 300A inrush (Sealed solenoids: 200A make and break, 5 secs On, 5 secs Off. 500A inrush, maximum On time 20 secs). Allow at least 40 secs Off after maximum On time. Copper contacts.



24512-03, 12V Insulated BP L bracket, two 5/16" -24 studs, two blade coil terminals.

24612-03, 12V Insulated BP L bracket, two 5/16" -24 studs, two 10-32 stud coil terminals.

24712-S7, 12V Insulated, Sealed F bracket, two ¼" -20 studs, two 8-32 stud coil terminals.

24612-G13, 12V Grounded 📴

L bracket, two 5/16" -24 studs, one 8-32 stud coil terminal.

24712-GS7, 12V Grounded, Sealed B2

F bracket, two 1/4" -20 studs, one 8-32 stud coil terminal.

E4 ELECTRONIC SOLENOIDS

Electronic Solenoid

48785, Electronic Solenoid 85A 9-31V DC



Fully solid-state, with no moving parts to wear out. The Electronic Solenoid stands up to over 20 million On-Off cycles. It is completely sealed, ignition protected, and withstands vibration and adverse environments. Perfect for vehicles that are always on the move. Use the Electronic Solenoid in both 12V or 24V applications... or any voltage between 9 and 31V.

- Solenoid can be used in both High Side and Low Side switching applications.
- Needs only a very low control current.
- Suitable for high inrush demand circuits.



Specifications:

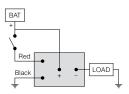
9 - 31V DC, 85A continuous or 175A intermittent.

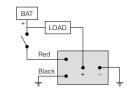
Low On resistance of $.005\Omega$

Low control current of .02A (max) means lighter wires, smaller harnesses.

On/Off control voltage must be identical to the system voltage.

Wide temperature operating range -40° C to $+85^{\circ}$ C without derating.





High side switching application

Low side switching application

Protected from transient voltage spikes or surges.



RELAYS

Heavy Duty & High Power Relays

General purpose relays fit many vehicles. Typical applications include: lighting, starting, horn, heating and cooling. Ignition protected to SAE J1171, Section 5. Standard ISO terminal footprint for Form A (SPST), Form C changeover (SPDT) and Form 2A (SPST, 2 terminals). Relays are available sealed and unsealed (unsealed are supplied with snap-in brackets.)

Specifications:

Relay Schematics are on page 100.

Pull-in voltage: 7.8V maximum at 12V DC, 15.6V at 24V DC.

Release voltage: 1.2V minimum at 12V DC, 2.4V at 24V DC.

Temperature range: -40°C to 85°C.

Operational life: Electrical to 100,000 cycles; Mechanical to 10 million cycles.

Contact Material: Silver alloy.

Dielectric strength: 500V rms between coil and contact.

Insulation resistance: $100M\Omega$ minimum (500V DC).

Vibration resistance: 10-40Hz double amplitude 1.5mm.

Cole Hersee Relays are rated based on a steady state resistive load. De-rate according to the type of load: Motor load: Inrush can be 5 to 10 x steady state current. Solenoid load: Inrush can be 10 to 20 x steady state current. Incandescent lamp load: Inrush can be 10 to 15 x steady state current.

Relays are also available with PCB terminals. Contact Cole Hersee.

Heavy Duty Relays 40A at 12V DC

Specifications:

Contact rating (Resistive load) at 20°C: 12V DC: Normally Open 40A, Normally Closed 30A.

24V DC: Normally Open 20A, Normally Closed 15A.

Contact arrangement: Available as Form A (SPST), Form C (SPDT) and Form 2A (SPST, 2 terminals).

High Power Relays 70A at 12V DC

Specifications:

Contact rating (Resistive load) at 20°C: 12V DC: Normally Open 70A,

Normally Closed 60A.

24V DC: Normally Open 35A, Normally Closed 30A.

Contact arrangement: Available as Form A (SPST) and Form C (SPDT).



MicroRelays 25A at 12V DC



MicroRelays fit many vehicles and applications. They have a reduced size, but can accept a 25A load.

Typical applications include: lamp control, horns, power windows, fuel pumps, fans and lifts gates. Standard terminal footprint for Form A (SPST), Form C changeover (SPDT) MicroRelays are available sealed and unsealed.



Specifications:

MicroRelay Schematics are on page 100.

Contact rating (Resistive load) at 20°C: 12V DC: Normally Open 25A, Normally Closed 20A. 24V DC: Normally Open 15A, Normally Closed 10A.

Contact arrangement: Available as Form A (SPST), and Form C (SPDT).

Vibration resistance: 10-40Hz double amplitude 1.27mm.

Pull-in voltage: 7.8V maximum at 12V DC, 15.6V at 24V DC. Release voltage: 1.2V minimum at 12V DC, 2.4V at 24V DC. Temperature range: -40°C to 85°C.

Operational life: Electrical to 100,000 cycles. Mechanical to 10 million cycles.

Contact Material: Silver alloy.

Dielectric strength: 500V rms between coil and contact. Insulation resistance: $100M\Omega$ minimum (500V DC).

Cole Hersee Relays are rated based on a steady state resistive load. De-rate according to the type of load:

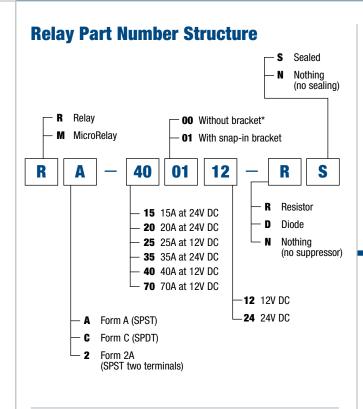
Motor load: Inrush can be 5 to 10 x steady state current. Solenoid load: Inrush can be 10 to 20 x steady state current. Incandescent lamp load: Inrush can be 10 to 15 x steady state current.

MicroRelays are also available with PCB terminals: contact Cole Hersee.

눚 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.







Relay Stock Items

Other configurations, and PC terminals are available. Contact Cole Hersee. **Key:** N: none D: diode

Relay

Part Number	Form.	Bracket	Amp.	Volt.	Suppressor	Seal
RA-400112-NN BP	A:SPST	01: Snap-in	40	12	N	Ν
RA-400112-RN BP	A:SPST	01: Snap-in	40	12	R	Ν
RA-400112-DN	A:SPST	01: Snap-in	40	12	D	Ν
RA-400012-DS 📴	A:SPST	00:None	40	12	D	S
RA-200024-DS	A:SPST	00:None	20	24	D	S
RC-400112-NN BP	C:SPDT	01: Snap-in	40	12	N	Ν
RC-400112-DN BP	C:SPDT	01: Snap-in	40	12	D	Ν
RC-200124-RN BP	C:SPDT	01: Snap-in	20	24	R	Ν
RC-400012-DS BP	C:SPDT	00:None	40	12	D	S
R2-200124-RN	2:SPST	01: Snap-in	20	24	R	Ν
RA-700112-NN 📴	A:SPST	01: Snap-in	70	12	Ν	Ν
RA-700112-DN BP	A:SPST	01: Snap-in	70	12	D	Ν
RC-700112-NN BP	C:SPDT	01: Snap-in	70	12	N	Ν
RC-700112-RN BP	C:SPDT	01: Snap-in	70	12	R	Ν

MicroRelay

Part Number	Form.	Bracket	Amp.	Volt.	Suppressor	Seal
MA-250012-RN	A:SPST	00:None	25	12	R	Ν
MA-250012-RS	A:SPST	00:None	25	12	R	S
MA-250012-NN	A:SPST	00:None	25	12	Ν	Ν
MA-150024-RS	A:SPST	00:None	15	24	R	S
MA-150024-DN	A:SPST	00:None	15	24	D	N
MA-150024-NN	A:SPST	00:None	15	24	Ν	Ν
MC-250012-NN	C:SPDT	00:None	25	12	Ν	Ν
MC-150024-RS	C:SPDT	00:None	15	12	R	S
MC-150024-NN	C:SPDT	00:None	15	24	Ν	Ν

Relay Sockets

Accepts Cole Hersee relays and standard ISO relays. Modular – sockets dovetail together. Accepts standard quick-connect terminals. Easy mount bracket. Constructed of rugged glass-filled polyamide. Temperature range -40F to 85C.

99025, High Power Socket

For use with Cole Hersee High Power Relays. Form A (SPST)



Use with Tyco (AMP) terminals 280756 or 280755 (consult terminal manufacturers for full specs).

99026, Heavy Duty Socket

For use with Cole Hersee Heavy Duty Relays. Form A (SPST) or Form C (SPDT).

Use with Tyco (AMP) terminals 42281 or Ark-Les 3000H112A series (consult terminal manufacturers for full specs).





forward and reverse

Our 24452 Forward & Reverse Relay Module combines dynamic braking with forward and reverse control, and is fully sealed. See page 64.



F momentary switches

1 HEAVY DUTY PUSH-BUTTON SWITCHES

For applications to 36V DC. Off - On, Normally Off. On with button depressed, spring return to Off. Silver contacts. Chrome plated button and face nut (except where noted).

Cylindrical Housing

35A at 12V, 20A at 24V DC.

9095 📴 🌟

Two screw terminals. Mounting stem: 5/8"-32 thread, 21/32" (16.7mm) long.



9245, With Seal and Snap-on Cap 📴 🔶

Same as 9095, except with 0-ring seal in the mounting stem, snap-on black rubber protective cap (407-03), and black plastic button.



90036-02, With Blade Terminals

Same as 9095, except with 2 blade terminals to fit Delphi (Packard) 2973407 two-way connectors, or similar.



9155*, With Large Button

15/16" diameter button. 2 screw terminals with lockwashers. Mounting stem: 5/8"-32 thread, 21/32" (16.7mm) long.



9231, With Protected Button 🔶

With recessed facenut designed to prevent accidental actuation. 2 screw terminals. Mounting stem: 5/8"-32 thread, 21/32" (16.7mm) long.



90030, With Plastic Button, and Screw-On Cap

Two screw terminals. Mounting stem: 5/8"-32 thread, 21/32" (16.7mm) long. With screw-on black rubber protective cap 83280-03.



90030-01, With Plastic Button, and Oil-Resistant Cap Same as 90030, except with brown oil-resistant cap 83280-05.

90030-04, With Plastic Button, and Red Screw-On Cap Same as 90030, except with Red screw-on protective cap 83280-02.

more moms

You'll find more moms (or momentary switches) in the following catalog sections:

Rocker & Toggle Switches	-	Section C
Ignition Switches	_	Section B
Foot-Operated Switches	_	Section H8



Rectangular Housing

10A at 12V DC, except where noted.

9044 🔶

Normally Off. 2 screw terminals. Mounting stem: 5/8"-32 thread, 1.06" (26.9mm) long. Gasket seal in the case.



9023 🜟

Normally Off. 15A resistive, 10A inductive at 12V DC, 8A resistive, 5A inductive at 24V DC. Two screw terminals. Mounting stem: 5/8"-32 thread, .87" (22.1mm) long.



9238, With Blade Terminals Same as 9023, but with blade terminals.

9023-A*, With Silver Contacts

Same as 9023, but with silver contacts, giving greater voltage range – 6-36V DC. 15A at 12V, 8A at 24V, 4A at 36V DC.

9115 🌟

Normally On.Two screw terminals with lockwashers. Mounting stem: 5/8"-32, 7/8" thread (22.2mm) long. Copper contacts.



90043, Sealed, with Rubber Cap 🔶

Normally On. 10A at 24V DC, 20A at 12V DC. Two blade terminals accept 2-pole Delphi (Packard) connector 2977647 or equivalent. Mounting stem: 5/8"-32 thread, .625" (15.9mm) long. Gasket seal in the case. Steel plunger protrudes through the cap. Black rubber cap snaps into a special groove on the nut, which is deep-thread-ed and gives a positive seal.



M-608, PVC-Coated 📴 🔶

Normally Off. Corrosion-resistant brass case. PVC-coated body sealed against moisture and dirt, with black rubber snap-on cap 407-03. Two 12" (304.8mm) 18AWG leads. Brass mounting stem 5/8"-32, 15/16" (23.8mm), fits panels up to 1/2" (12.7mm) thick.



9212

Normally On. 2 blade terminals. Mounting stem: 7/16"-20 thread, 1/2" (12.7mm) long. 1/2" (12.7mm) plunger with nylon cap. Brass contacts.



online catalog

Check out the Cole Hersee interactive catalog at www.colehersee.com

눚 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



F2	TWO CIRCUIT PUSH-BUTTON SWITCHES	F3	CAPS

Two circuits are simultaneously energized.

Normally Off

Off-On, normally Off. On with plunger depressed, spring return to Off.

9165, With Screw Terminals

10A per circuit at 12V DC. Three screw terminals with lockwashers. Mounting stem: 5/8"-32 thread, 21/32" (16.7mm) long with two steel hexnuts and facenut.



9276*, With Blade Terminals, Silver Contacts

35A at 12V, 20A at 24V, 10A at 36V DC. Three blade terminals. Mounting stem: 5/8"-32 thread, 21/32" (16.7mm) long. Silver contacts for extra-heavy applications to 36V DC.

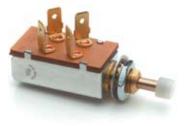


Normally On

On-Off, normally On. Off with plunger depressed, spring return to On.

9211

Commonly used in school bus stepwell and door control. Four blade terminals. Mounting stem: 7/16"-20 thread. .33" (8.4mm) diameter button. 10A per circuit at 12V DC.



F3 CAPS FOR PUSH BUTTON SWITCHES

Flexible caps give added resistance to weather and dust.

Threaded Caps

Rubber cap is permanently fastened to the integral mounting nut by a rolled brass bezel. The deep threaded 5/8"-32 aluminum mounting nut assures a positive seal. Durable, resilient rubber, embossed 'PUSH'. Fits Cole Hersee and all other push button switches with a 5/8"-32 thread mounting stem.

83280-03, Black BP

83280, Gray

83280-02, Red



83280-05, Oil-Resistant

For use on fuel delivery trucks. Cap is molded from resilient Hydrin which provides excellent resistance to fuel oils. Brown color.

Snap-On Caps

Ribs on the inside of the rubber cap engage with the switch facenut.

407-03, Black 📴

407-01, Gray 📴



F4 SPECIALIZED MOMENTARY SWITCHES

9109, Normally Off. Use with Cable or Lever

10A at 12V DC. Normally Off. Pull On, spring return to Off. Brass case and mounting hardware. Two screw terminals with lockwashers. Mounting stem 1/2"-20 thread, 5/8"(15.9mm) long. No knob: shaft has 3/32" (2.4mm) hole for the attachment of a cable or lever.





Horn Buttons

96101, Surface Mount 📴 🔶

5A at 12V DC. Two screw terminals. Black plastic button, 13/16" (20.6mm) diameter.



96100, Clamp Mount 5A at 12V DC. Same as 96101, but with clamp that allows attachment on a steering column up to 1 1/2" (38.1mm) diameter.



96102, Large Button, Clamp Mount

5A at 12V DC. Two screw terminals. Ivory plastic button 1 3/4" (44.5mm) diameter. Clamp allows attachment on a steering column up to 1 1/2" (38.1mm) diameter.



Engine Start/Engine Stop

35A at 12V, 20A at 24V DC. Two screw terminals with lockwashers. Mounting stem 7.8"-24 thread, keyed to prevent switch from turning, fits panels .04" - .10" thick (1.0 - 2.5mm). Silver contacts.

Impact-resistant molded plastic button with imprint, white on color, repels oil, water and other liquids. Diecast housing, with knurled aluminum facenut. 2 7/32"L x 1 1/8"D (50.8 x 28.6 x 3.18mm).

90047, With Black 'Start' Button 🔶

90048, With Red 'Stop' Button





90047-01, Weatherproof with 'Start' Imprint Same as 90047, but with special facenut with built-in lip seal for added weather-resistance.

90048-01, Weatherproof with 'Stop' Imprint

Same as 90048, but with special facenut with built-in lip seal for added weather-resistance.

Momentary Grounding Switch

9059, Snap Mount

5A at 12V DC. Chrome-plated brass button with chrome-plated faceplate. One bullet terminal. Snaps into

15/16" (23.8mm) diameter hole. Self-grounding in metal panels. Contacts normally open. Contacts close (terminal to ground) with plunger depressed, spring return to open.



Compact Design

5A at 12V DC, except where stated. Normally Off is Push to Mom On, spring return to Off. Normally On is Push to Mom Off, spring return to On. Toggled type is Push to On, Push to Off.

9075, Normally On 🔶

Snaps into .80 - .85" (20.3 - 21.6mm) diameter hole. Fits panels .03 - .07" thick (.76 - 1.8mm). Moisture-resistant molded plastic case. Two female bullet terminals, plastic plunger 9/16" (14.3mm) long.

Replaces: Delco 1972534, Ford BOA, B9a, B9MF, C3AZ, C5AZ, C607, FEW, OA-13713-A, Jeep 805699, Motorcraft SW-265, 395, Peterbilt 16-03030.



F5 DOOR MOMENTARY SWITCHES

SPST Normally On

Off with plunger depressed, spring return to On.

Without Faceplate

9055, With 1/2" Plunger

7/16" -20 thread mounting stem, 7/16" long (11.1mm), two flats on stem for mounting in double-D hole. Two screw terminals, plated steel case. 10A at 12V DC.



눚 Rapid ship item. 🛛 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



9264, with 1/2" Button End Plunger

7/16" -20 thread mounting stem, 7/16" long (11.1mm), two flats on stem for mounting in double-D hole. Two screw terminals, plated steel case. 10A at 12V DC.



9264-02

Same as 9264 except with 7/8" (22.2mm) mounting stem. 10A at 12V DC.

9003

1/2" -20 thread mounting stem, 1/4" long (6.4mm), two screw terminals, 13/32" plunger (7.9mm). 5A at 12V DC



With Faceplate

9001, with Screw Terminals 🔶

Two screw terminals. Two 9/64" diameter (3.6mm) mounting holes, 1 3/8" (34.9mm) on centers. 45/64" diameter (17.9mm) plated steel case. Plunger: 7/16" long (11.1mm). 5A at 12V DC



9270, with Blade Terminals Similar to 9001, but with two blade terminals.

9087, with Screw Terminals, Four Mounting Holes B

Four 3/16" diameter mounting holes, 1 3/8" and 2 1/16" on center (34.9, 51.0mm). 45/64" diameter (4.8mm) plated steel case. Plunger: 7/16" long (11.1mm). 5A at 12V DC.



9270-01, with Sealed Plunger, and Wire Leads

Two .144" (3.7mm) diameter mounting holes, 1 1/2" (38.1mm) on centers. 0.70" diameter (17.8mm) plated steel case. Plunger: 0.436" long (11.1mm). Black rubber cap on plunger, and PVC coating on 8" (203.0mm) wire leads protect against moisture and dirt. 5A at 12V DC.



DPST Normally On

Off with plunger depressed, spring return to On.For energizing two circuits simultaneously. Popular for use in school bus stepwell and door control. 10A at 12V DC

9118, with Screw Terminals 🔶

7/16" -20 thread mounting stem, 7/16" (11.1mm) long, two flats on stem for mounting in double-D hole. Four screw terminals. Plunger 19/64" (7.54mm) long. 10A at 12V DC.



91801, with Blade Terminals $\stackrel{}{\not\leftarrow}$ Same as 9118, except with four blade terminals. 10A at 12V DC.



91801-01

Same as 91801, except with one insulated, one grounded circuit and three blade terminals. 10A at 12V DC.





School Bus Switches

Designed for use in 8 light warning systems in school buses. 10A at 12V DC

91811, Two-Circuit

Normally On - Mom Off - Mom On. Two circuits. 7/16" -28 thread mounting stem, 3/4" (19.0mm) long, flat on stem for mounting in D hole. Four screw terminals, Plunger 23/64" (9.2mm) long. Extraheavy duty. 10A at 12V DC.



91804, Four-Circuit DPDT

Normally On. Momentary Off. 7/16" -28 thread mounting stem, 3/4" (19.0mm) long, flat on stem for mounting in D hole. Six screw terminals, Plunger 23/64" (9.2mm) long. Extra-heavy duty. 10A at 12V DC.



91800, with Stationary Off and Momentary Off Positions. 3 Positions.

Normally On. Pull-out feature permits circuit to be shut off manually when the door must remain open and operation is not required. 7/16" -20 thread mounting stem, 7/16" (11.1mm) long. Two flats on stem for mounting in double-D hole. Two screw terminals. Plunger is 7/32" (5.6mm) long at On, 3/4" (19.0mm) at Off. 10A at 12V DC.



Normally Grounded Switches

Self-grounding in metal panels. Contacts Open with plunger depressed, spring return to Ground.

Single-Circuit

91812

7/16" -20 thread mounting stem, 7/16" (11.1mm) long, two flats on stem for mounting in double-D hole. One blade terminal, plunger 33/64" (13.1mm) long. 5A at 12V DC.



9251 🔶

5/16" -18 self-tapping thread, mounting stem 1/2" (12.7mm) long. One female bullet terminal, plunger 7/16" (11.1mm) long, operates with 35oz (.99 kg) minimum pressure. 5A at 12V DC.

Replaces: Chrysler 1571542, 1594751, 1688514, 1838957, GMC 4882978, 6276718, Motorcraft SW-690 (one terminal application).



91822

3/8" -24 self-tapping thread, mounting stem 7/32" (5.6mm) long. One blade terminal, plunger 5/16" long, self-adjusting to 1/4" long. Operates with 6lbs (2.7 kg) minimum pressure. 3A at 12V DC.

Replaces: GMC 9665205, 9839085, 20057138.



Two-Circuit

Two circuits grounded simultaneously. 5A at 12V DC

91823 📌

3/8" -24 thread, mounting stem 7/32" (5.6mm) long. Two blade terminals, plunger 3/16" (4.8mm) long, self-adjusting to 1/4" (6.4mm) long. Operates with 7lbs (3.2 kg) minimum pressure. 5A at 12V DC.

Replaces: AMC 3631896, 3662814, Chrysler 2497590, 2889084, GMC 9852254, 20603498, Motorcraft SWG-1115.

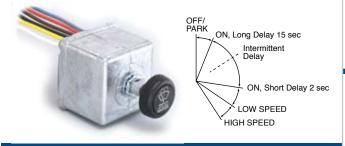




G wiper & dimmer switches

G1 ELECTRONIC WIPER SWITCHES

With intermittent delay feature for permanent magnet electric wiper motors. Ensures dependable control of windshield wipers on heavyduty vehicles. For 12V DC or 24V DC vehicles as noted, with or without dynamic parking, negative ground only. 4 positions: Off/Park-Intermittent Range - Low - High. Push-to-wash (two to three wipes after the knob is released). Black plastic knob with metal insert and set screw, white imprint. Diecast case 2 7/32" (56.4mm) square, 1 13/16" (46.0mm) long. 7/16 -28 thread mounting stem, .45" (11.3mm) long. Hexnut and lockwasher included. Switches conform to SAE J1455, SAE J112a and J234. Switches control most two-speed wiper motors.



With Dynamic Parking

Controls one or two motors.

75600-04, One Motor Leads, 12V DC

Microprocessor design. Six color-coded wire leads, 5" (127.0mm) long. With round knob imprinted with SAE washer-wiper symbol.

75602-04, One Motor, Leads, 24V DC

Microprocessor design. Same as 75600-04, except 24V.

75600*, One Motor, Delphi (Packard), 12V DC

Microprocessor design. Same as 75600-04, but with Delphi (Packard) 8-way female connector 2965977 (mates with 2965972.) With round knob imprinted with SAE washer-wiper symbol.

75600-02, One Motor, Delphi (Packard), 12V DC

Controls one motor. One Delphi (Packard) 6-way male connector 2977042 (mates with 2977044). Lead and connector assembly: 5.625" (142.9mm) long. With round knob imprinted with SAE washer-wiper symbol.

75600-05, One Motor, Delphi (Packard), 12V DC

Controls one motor. One Delphi (Packard) 4-way male connector 6294544 (mates with 2977048) and one Delphi (Packard) 4-way female connector 2977048 (mates with 6294544). With round knob imprinted with SAE washer-wiper symbol. Lead and connector assembly: 5.625" (142.9mm) long.

75600-07*, One Motor, 12V DC

Controls one motor. One 7-pole connector. Supplied with hexnut and lockwasher for mounting, no knob. Lead and connector assembly: 5.625" (142.9mm) long.

With or Without Dynamic Parking

Microprocessor accomodates motors with or without dynamic parking. Sychronized motor motion - motors run at same speeds, and in phase. Overcurrent and short-circuit protected.

75600-01, Two Motors, 12V DC

Controls two motors. One Delphi (Packard) 4-way male connector 6294544 (mates with 2977048) and one Delphi (Packard) 6-way male connector 2977042 (mates with 2977044). With round knob imprinted with SAE washer-wiper symbol. Lead and connector assembly: 5.625" (142.9mm) long.

75602-02, Two Motors, 24V DC

Same as 75600-01, but 24V.

For Two Motors. Microprocessor Control

Microprocessor accomodates motors with or without dynamic parking. Sychronized motor motion - motors run at same speeds, and in phase. Overcurrent and short-circuit protected.

75600-01, 12V

Controls two motors. One Delphi (Packard) 4-way male connector 6294544 (mates with 2977048) and one Delphi (Packard) 6-way male connector 2977042 (mates with 2977044). With round knob imprinted with SAE washer-wiper symbol. Lead and connector assembly: 5.625" (142.9mm) long.

75602-02, 24V

Same as 75600-01, but 24V.

For Two Motors

Without dynamic parking. Controls one or two motors, such as Johnson electric motors (formerly United Technologies) and Sprague Devices. Lead and connector assembly 5.625" long (142.9mm). Delphi (Packard) 8-way male connector 2965972 (mates with 2965977).

75601-08, 12V, Without Knob

75601-02, 12V, With Knob

Same as 75601-08, but with round knob imprinted with SAE washer-wiper symbol.



📌 Rapid ship item. 📴 Available in retail clamshell pack. 🖈 Minimum order quantity may apply.



For Single Motor

Controls one motor. With dynamic parking.

75600-04, 12V, With Leads

Microprocessor design. Six color-coded wire leads, 5" (127.0mm) long. With round knob imprinted with SAE washer-wiper symbol.

75600*, 12V, Delphi 8-Way Connector

Microprocessor design. Same as 75600-04, but with Delphi (Packard) 8-way female connector 2965977 (mates with 2965972.) With round knob imprinted with SAE washer-wiper symbol.

75600-02, 12V, Delphi 6-Way Connector

One Delphi (Packard) 6-way male connector 2977042 (mates with 2977044). Lead and connector assembly: 5.625" (142.9mm) long. With round knob imprinted with SAE washer-wiper symbol.

75600-05, 12V, Two Delphi Connectors

One Delphi (Packard) 4-way male connector 6294544 (mates with 2977048) and one Delphi (Packard) 4-way female connector 2977048 (mates with 6294544). With round knob imprinted with SAE washer-wiper symbol. Lead and connector assembly: 5.625" (142.9mm) long.

75600-07, 12V, 7-Way Connector

One 7-pole connector. Supplied with hexnut and lockwasherfor mounting, no knob. Lead and connector assembly: 5.625" (142.9mm) long.

75602-04, 24V DC, With Leads

Microprocessor design. Same as 75600-04, except 24V.

Without Dynamic Parking

Controls one or two motors. 12V DC. Includes motors by Johnson Electric (formerly United Technologies) and Sprague Devices. Lead and connector assembly: 5.625" (142.9mm) long. Delphi (Packard) 8-way male connector 2965972 (mates with 2965977).

75601-02, With Knob

Same as 75601-08, except with round knob imprinted with SAE washer-wiper symbol.



75601-08, Without Knob Includes hexnut and lockwasher for mounting.

G2 ELECTRIC TWO-SPEED WIPER SWITCHES

For Permanent Magnet Electric Wiper Motors

For 12V and 24V DC, except where noted. For use with heavy-duty permanent magnet electric wiper motors. 3 positions: Off/Park - Low - High.

Without Dynamic Parking

For use with Johnson Electric (formerly United Technologies) motors. Black plastic knob with metal insert and set screw, white imprint. Plated steel case 1 3/8" (34.9mm) diameter, 3/8" (9.5mm) long. Mounting stem 7/16" -28 thread, .38" (9.6mm) long.

75212-04, Single Motor, without Push-To-Wash 4 blade terminals.

75221-06, Single Motor, without Push-To-Wash

4 blade terminals. Internal 6A circuit breaker at 12V DC.

75221-09, Single Motor, with Push-To-Wash

5 blade terminals. Internal 6A circuit breaker at 12V DC.

75217-04, Dual Motor, without Push-To-Wash 6 blade terminals.

75226, Dual Motor, with Push-To-Wash 7 blade terminals.



With Dynamic Parking

For use with motors with dynamic parking, including Robert Bosch and Sprague Devices motors. Sealed construction, including 0-ring on the shaft. Black plastic knob with metal insert and set screw, white imprint. Mounting stem 7/16" -28 thread, .45" (11.4mm) long. Diecast case 1 5/8" (41.3mm) diameter.

75228-03, Single Motor, Push-To-Wash 6 blade terminals.

75228-04, Single Motor, without Push-To-Wash 5 blade terminals.

75236, Dual Motor, with Push-To-Wash 8 blade terminals.



Knobs

81298-02, Wiper Symbol Accepts 3/16" (4.9mm) diameter shaft. Imprinted with windshield wiper symbol.



81298-34, Wiper-Washer Symbol Accepts 1/4" (6.4mm) diameter shaft. Imprinted with windshield wiper symbol.



