toggle switches

B6 MEDIUM DUTY SPST OFF-ON SWITCHES

Down: Off, Up: On. Standard or ball handle. In chrome plated brass or 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.

Nickel-plated brass handle

5507 ball handle, two screw terminals

5558 standard handle, two screw terminals BP ★

5568 ball handle, two 6" leads

5570 standard handle, two 6" leads

55012 ball handle, two blade terminals

55013 standard handle, two blade terminals

Chrome-plated brass handle

M-484 standard handle, two screw terminals BP ★
Also available by special order as a panel assembly.
(M-515-01, M-516-01, M-517.)

M-493 ball handle, two screw terminals BP

M-584 standard handle, two 6" leads BP ★

M-586 standard handle, two blade terminals

toggle switches

B7 HEAVY DUTY & EXTRA HEAVY DUTY SWITCHES 20A AND 30A

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.

551014* **SPST On-Off Grounding Switch**
Up: On, Center: Off. One blade terminal.
On: contacts closed, terminal grounded to the housing.

551015* **SPST Mom On-Off Grounding Switch**
Up: Mom On, Center: Off. One blade terminal.
On: contacts closed, terminal grounded to the housing.

★ *Rapid ship item.* BP *Available in retail clamshell pack.* ✱ *Minimum order quantity may apply.*

551800 SPST On-Off BP ★
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 BP
Up: On, Center: Off. Two screw terminals.
Golden dichromate dip housing, brass terminals.

M-595 SPDT On-Off-On
Up: On, Center: Off, Down: On. Three screw terminals.
Golden dichromate dip housing, brass terminals.

Extra Heavy Duty

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

551840 SPST On-Off BP ★
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 BP ★
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 ★
Up: On, Center: Off, Down: On. Six screw terminals.

12V, 24V, 36V rating

Generally, Cole Hersee heavy duty 12V non-illuminated* toggle and rocker switches can be used at higher voltage but lower current.

Example: By calculation, 25A 12V switch will derate to 8.3A at 36V, or 12.5A at 24V.

This calculated de-rating gives a conservative result. 25A at 12V toggle switches* can actually be used at 15A at 24V, and 10A at 36V.

***Exception:** This does not apply to Illuminated switches. The pilot light must only be supplied with the stated voltage. Do not derate any illuminated switches.*

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.

SPECIALIZED B8

★ *Rapid ship item.* BP *Available in retail clamshell pack.* ✱ *Minimum order quantity may apply.*

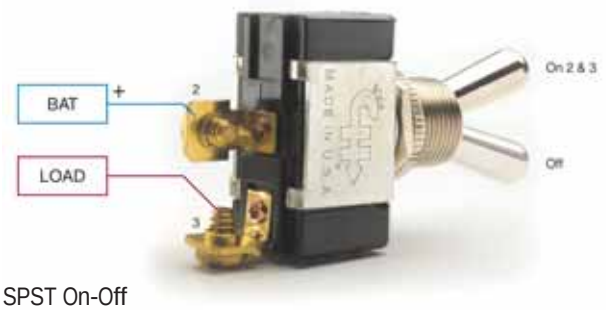
SPST SPDT DPST DPDT

SP and DP refer to single pole and double pole, ST and DT refer to single throw and double throw.

Pole *refers to the number of circuits controlled by the switch:*
SP switches control only one electrical circuit.
DP switches control two independent circuits (and act like two identical switches that are mechanically linked).
Do not confuse 'pole' with 'terminal'. The DPST switch, for example, has four terminals, but it is a DP, not a 4P switch.

Throw *refers to the extreme position of the actuator:*
ST switches close a circuit at only one position.
The other position of the handle is Off.
DT switches close a circuit in the Up position, as well as the Down position (On-On). A DT switch can also have a center position (frequently On-Off-On).

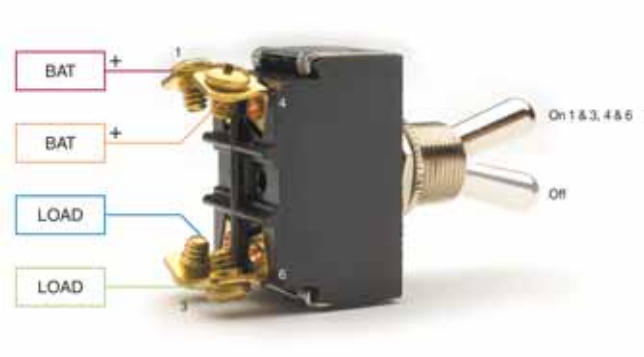
The following switch diagrams illustrate the most common types of toggle and rocker switch.



SPST On-Off

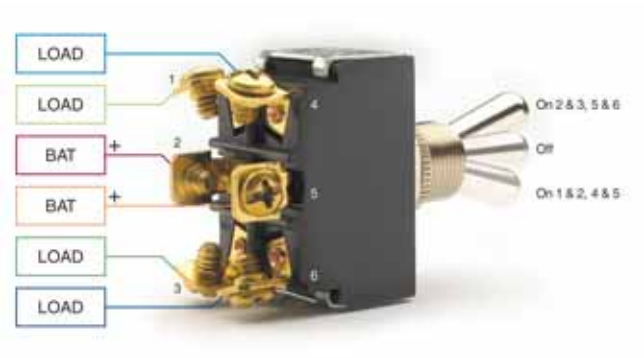
SPDT On-On
Only one of the loads can be energized at a time.

SPDT On-Off-On
Only one of the loads can be energized at a time.



DPST On-Off
Both load terminals can be energized at the same time. They are independent of each other and could be of different voltages.

DPDT On-On
Functions like two separate SPDT switches operated by the same actuator. Only two loads can be On at a time.



DPDT On-Off-On
Functions like two separate SPDT switches operated by the same actuator. Only two loads can be On at a time.

Single pole/throw and double pole/throw switches are by far the most common switches, but triple and quadruple configurations are also available. They are commonly denoted 3PST, 3PDT, 4PDT, etc. For our switches of this type, see Rotary Switches, section D1.