

Name _____

Date _____

Period _____

Engineering Technology Department

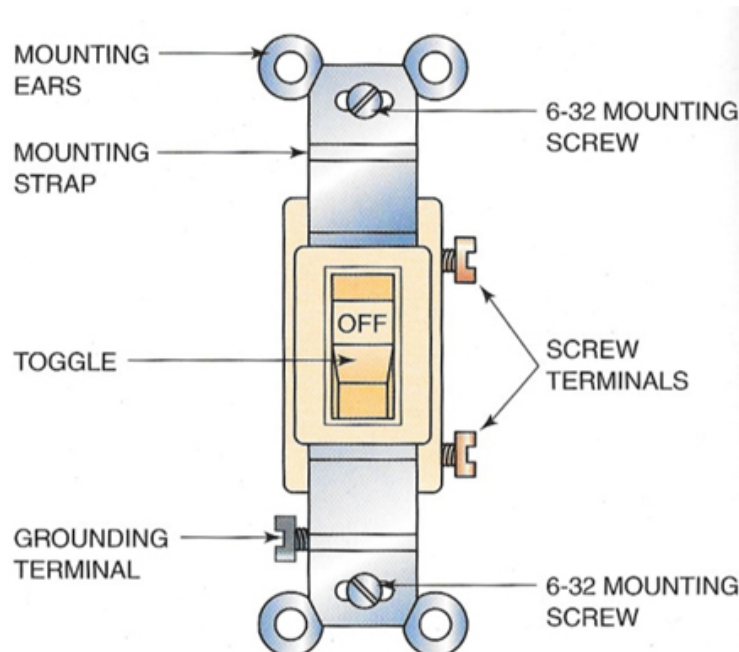
Devices – Switches

Switches

The most common type of switch used in residential wiring is called a _____. This switch type is used in 120-volt circuits to control a lighting outlet or outlets from only one location.

The main parts include the following:

- _____: used to place the switch in the ON or OFF position
- _____: Used to attach the lighting circuit wiring to the switch. On a single-pole switch, the two terminal screws are the same color, usually bronze.
- _____: Used to attach the circuit-grounding conductor to the switch. The terminal is green in color.
- _____: Used to secure the switch in a device box with a 6-32 size screws.

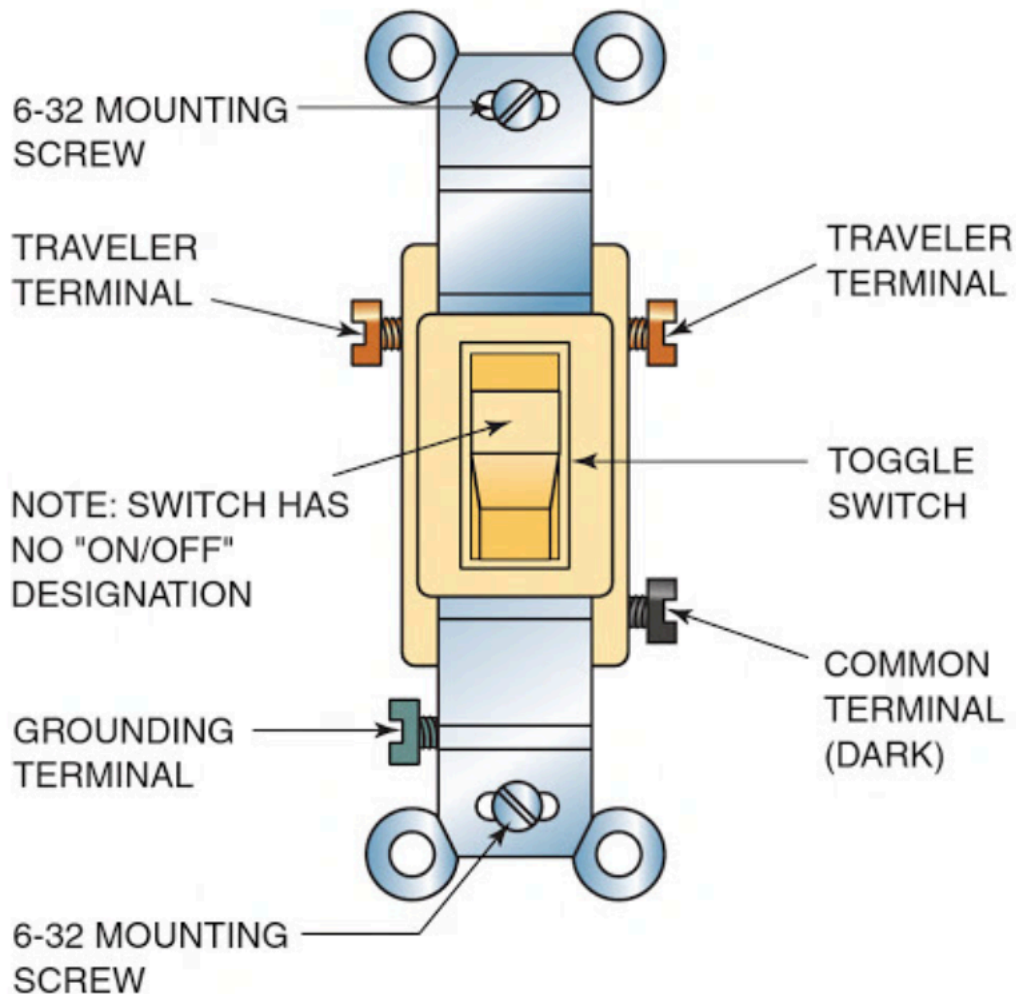


Three Way Switches

Three-way switches are used to control lighting or outlets from two locations. Three-way switches get their name from the fact that they have three screw terminals on them.

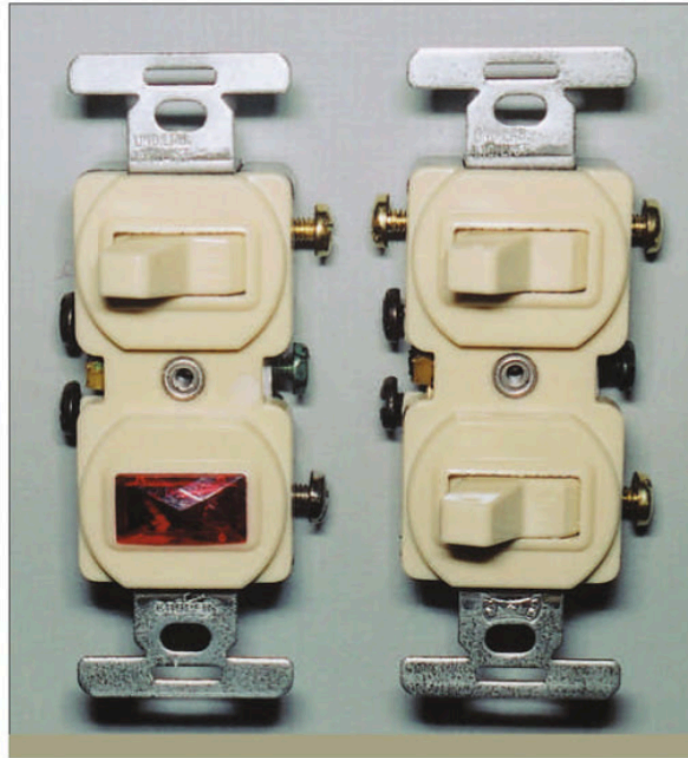
One characteristic is that three-way switches have three terminals. Two of the terminals, called "_____", typically have the same brass color and are located directly across from each other on opposite sides of the switch. The other screw terminal is usually black in color and is called the "_____". Identifying the common and the traveler terminals will enable you to correctly connect three-way switches in a lighting circuit.

Three-way switches must always be installed in_____, and a three-wire cable or three wires in a raceway must always be run between the two three-way switches for proper connection.



Combination Devices

Combination devices are used when more than one device is needed at one location. This type of device has a combination of two devices, both of which are mounted on the same strap.



Dimmer switch

Dimmer switches are used to dim or brighten the light output of a lighting fixture. They come in both single-pole and three-way configurations. They are usually rated at 125 volts and 600 watts, although larger wattage ratings are available.



You can NOT use dimmer switches to control _____ or _____ lights.

Low Voltage Switches & Wiring

Many owner builders are unfamiliar with the term "low voltage". It is electrical wiring and trim that does not carry the same current as the power outlets, fixtures and switches in a home.

Example of low voltage applications is: _____.

_____ and speakers, _____.

_____, _____ and security pre-wires are as well.

