Object:- To perform single way wiring system.

In this basic electrical wiring installation tutorial, we will show how to wire a light switch to control a light point by one way or single way switch. We will use the basic SPST (Single Pole Single Through) switch in this tutorial to control a lamp / bulb from single location.

Requirements:

- Single Way Switch (SPST = Single Pole Single Through) x 1 No
- Lamp (Light Bulb) x 1 No
- Short pieces of cables x 3 No

Procedure:

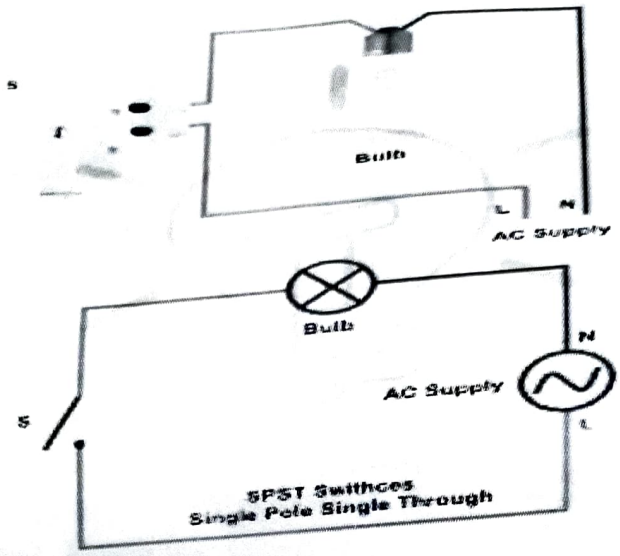
This is just like a series circuit i.e. all the components are connected in series. Just connect the Neutral wire directly to the light bulb and then connect the light bulb to the switch through middle wire. And then connect the live wire to the switch as shown in fig below. Fig given below shows the basic connection of light switch and their position i.e. when the switch is OFF, the circuit acts like an open circuit and the bulb won't glow. To switch on the bulb, switch $\mathbf{S_1}$ must be closed to complete the circuit and glow the light bulb.

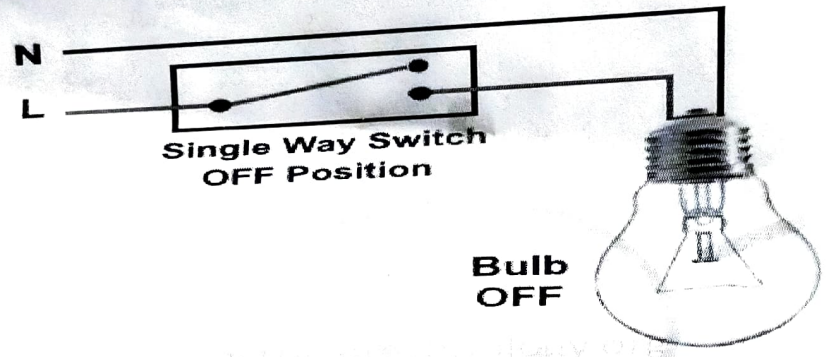
Also note that home wire colors may vary according to different areas. In addition, always use and connect the earth wire (direct naked wire to switches, and electrical appliances from earth link in the distribution board to reduce the risk of electric shock.

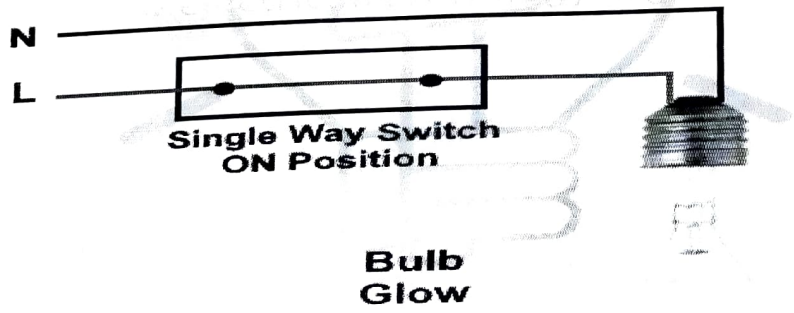
Advantages:

- Switches and fuses must be connected through **line** (Live) wire.
- Switches connection in series is not a prefer way to wire home appliances. parallel or series-parallel wiring method is more reliable.
- Less wires and cables are required in this kind of wiring connection.

Circuit diagram:







Precautions:

- Disconnect the power source before servicing, repairing or installing electrical equipments.
- Never try to work on electricity without proper guidance and care.
- Work with electricity only in presence of those persons who has good knowledge and practical work and experience who know how to deal with electricity.
- Read all instruction and cautions and follow them strictly.
- Contact the licensed electrician or the power supply company before practicing any change in electrical wiring connection.
- The author will not be liable for any losses, injuries, or damages from the display or use of this information or if you try any circuit in wrong format. So please! Be careful because it's all about electricity and electricity is too dangerous.