SWITCHING CIRCUITS

APPLICATIONS

SINGLE POLE SWITCHS
- used when only one conductor is to be switched
- lighting in a room where lamp is controled from one location
- switching of 120v Fractional Horse Power motors

DOUBLE POLE SWITCHES
- used when two conductors are switched at the same time
- Available in many current and voltage Ratings
- often used for 240v heaters and appliences and single phase 240v Motors

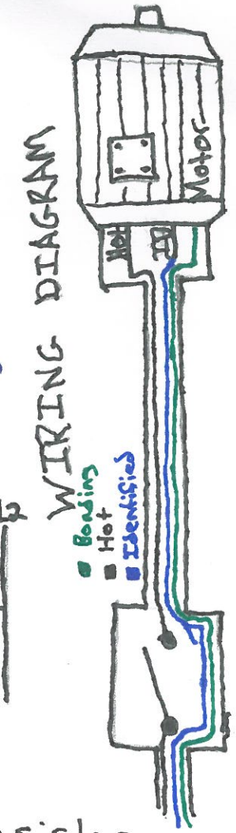
THREE POLE SWITCH
- used when 3 conductors need to be switched simotaineously
- Found mostly in 3 phase circuits

THREE WAY SWITCH
- used to control load from more then one location
- often used in corridor lighting

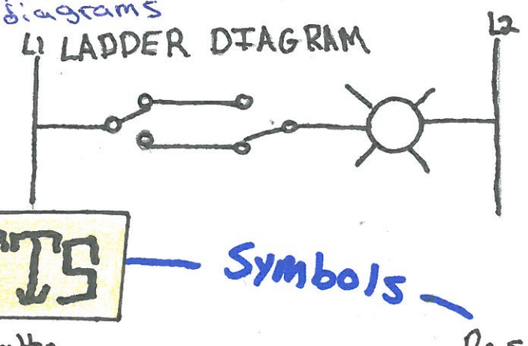
FOUR WAY SWITCH
- used with 3way switch to control load from more than 2 locations
- Can be used as a 3 way switch if configured right

DIAGRAMS

Wiring Diagrams
- Graphic representation of a circuit showing the electrical interconnection of circuit components and their Phisical location
- A guide for installation of conductors and components



Schematic Diagrams
- Shows logica sequance of operation of a circuit without regaurd to Phisical location of components
- Very useful when Troubleshooting
- Also called Elementry or ladder diagrams



Symbols

Single Pole Single Throw

Double Pole Single Throw

3 Pole

Single Pole Double Throw

3 Position

OFF

Double Throw

or

Double Throw

3 Position Selector

OFF

Normally Open Push button

(NO)

3 way

4 way

Normally Closed Pushbutton

(NC)

Double NO Push button

Double NC Push button

Sliding Type

Rotary Type

Ground

Lamp

Resistor

10kΩ

Battery

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\+

Transformer

Symbols