

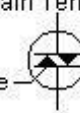











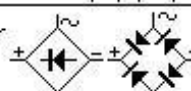





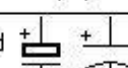




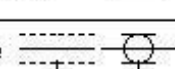


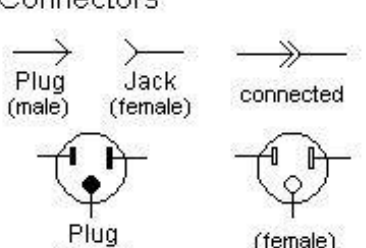











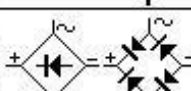





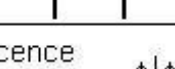

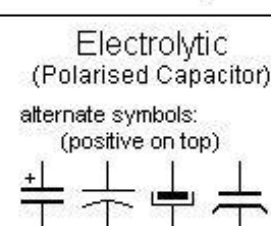
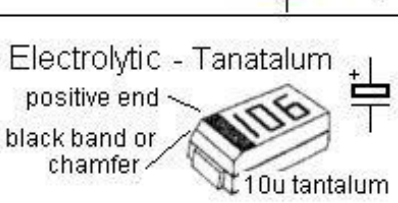



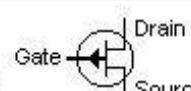


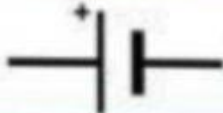

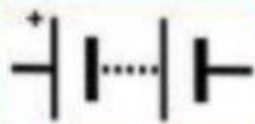

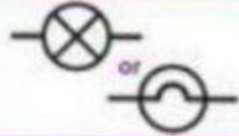



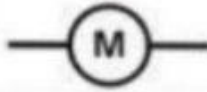





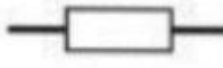

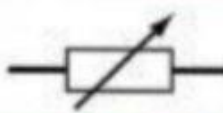


# CIRCUIT SYMBOLS

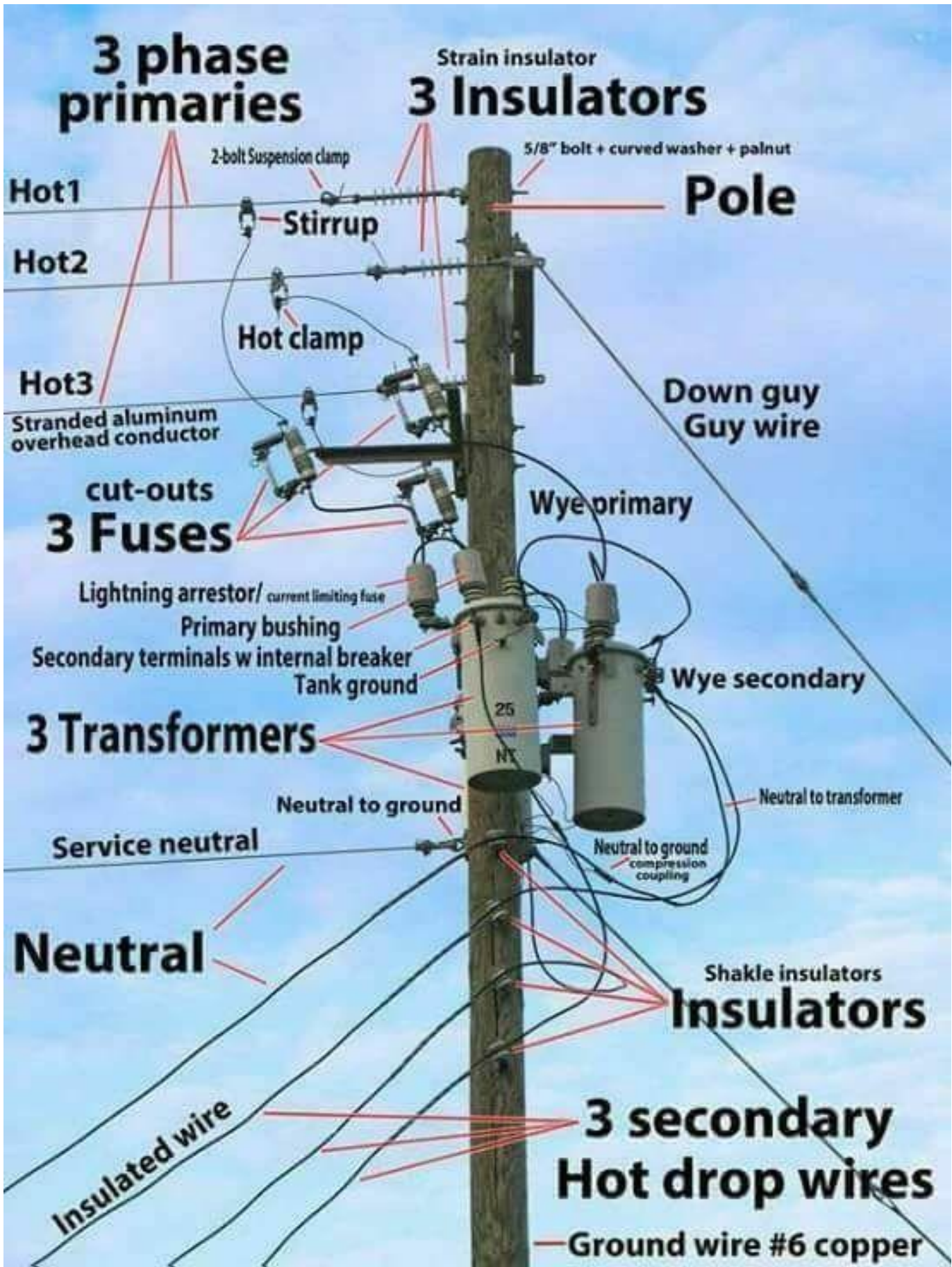
<p>AC current: </p> <p>voltage: </p>	<p>ALTERNISTOR TRIAC</p> <p>A TRIAC and 33 - 43v DIAC</p> <p>Main Terminal 1</p> <p>Gate</p> <p>Main Terminal 2</p> 	<p>Ammeter (amp meter)</p> 
<p>AND Gate</p> 	<p>AND Gate</p> 	<p>Antenna balanced</p> 
<p>Antenna Loop, Shielded</p> 	<p>Antenna Loop, Unshielded</p> 	<p>Antenna unbalanced</p> 
<p>Attenuator, fixed (see Resistor)</p> 	<p>Attenuator, variable (see Resistor)</p> 	<p>Battery</p> 
<p>Bilateral Switch (DIAC)</p> 	<p>Bridge Rectifier (Diode Bridge)</p> 	<p>BUFFER (Amplifier Gate)</p> 
<p>BUFFER (Amplifier Gate)</p> 	<p>Buzzer</p> 	<p>Capacitor feedthrough</p> 
<p>Capacitor non-polarised</p> 	<p>Capacitor polarised (see electrolytic)</p> 	<p>Capacitor Variable</p> 
<p>Cavity Resonator</p> 	<p>Cell</p> 	<p>Circuit Breaker</p> 
<p>Coaxial Cable</p> 	<p>CRO - Cathode Ray Oscilloscope</p> 	<p>Crystal Microphone (Piezoelectric)</p> 
<p>Connectors</p> <p>Plug (male)</p> <p>Jack (female)</p> <p>connected</p> 	<p>Crystal Piezoelectric</p> 	<p>DC current: </p> <p>voltage: </p>
	<p>Darlington Transistor</p> <p>collector</p> <p>base</p> <p>emitter</p> 	<p>Delay Line</p> 
	<p>DIAC (Bilateral Switch)</p> 	<p>Diode</p> 
<p>Diode - Gunn</p> 	<p>Diode - Light Emitting (LED)</p> 	<p>Diode Photo Sensitive</p> 
<p>Diode Photovoltaic</p> 	<p>Diode Bridge (Bridge Rectifier)</p> 	<p>Diode - Pin</p> 
<p>Diode - Varactor</p> 	<p>Diode - Zener</p> 	<p>Earth Ground</p> 
<p>Earpiece (earphone, crystal earpiece)</p> 	<p>Electroluminescence</p> 	<p>Electret Microphone (Condenser mic)</p> 
<p>Electrolytic (Polarised Capacitor)</p> <p>alternate symbols: (positive on top)</p> 	<p>Electrolytic - Tanatalum</p> <p>positive end</p> <p>black band or chamfer</p> 	<p>Exclusive-OR Gate (XOR Gate)</p> 
		<p>Exclusive-OR Gate (XOR Gate)</p> 
<p>Field Effect Transistor (FET) n-channel</p> <p>also: N-Channel J FET</p> <p>Gate</p> <p>Drain</p> <p>Source</p> 	<p>Field Effect Transistor (FET) p-channel</p> <p>also: P-Channel J FET</p> <p>Gate</p> <p>Drain</p> <p>Source</p> 	<p>Flashing LED (Light Emitting Diode)</p> <p>(Indicates chip inside LED)</p> 

# CIRCUIT SYMBOLS

Electrical circuit diagrams can sometimes look confusing.  
Here is an explanation of the most commonly used symbols.

	<b>Cell</b>	A cell is a source of electrical energy.	
	<b>Battery</b>	A battery contains numerous cells connected so that they produce more electrical energy.	
	<b>Bulb</b>	A bulb will light up only when it is in a circuit that is complete.	
	<b>Switch</b>	A switch can be turned on (closed) to let current flow or turned off (open) to stop current flow.	
	<b>Motor</b>	A motor turns current into motion, for example, in a hair dryer.	
	<b>Buzzer</b>	A buzzer turns current into sound.	
	<b>Ammeter</b>	An ammeter is used to measure current.	
	<b>Fixed Resistor</b>	A fixed resistor controls the amount of current in a circuit.	
	<b>Variable Resistor</b>	A variable resistor can be adjusted to control the amount of current in a circuit.	







# TOOLS & EQUIPMENT

