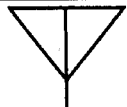


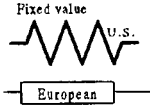
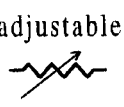

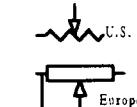
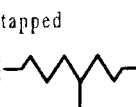
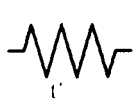
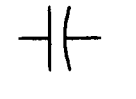
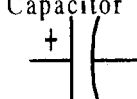

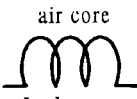
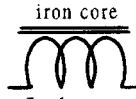
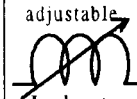

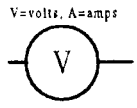
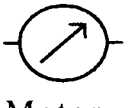
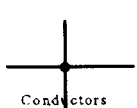

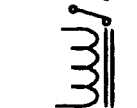
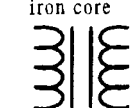
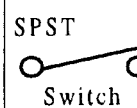
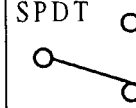
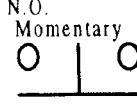
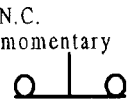
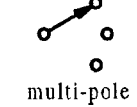
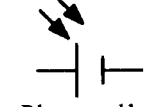

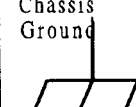
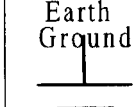
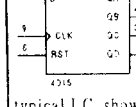




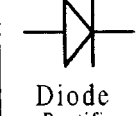
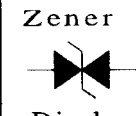

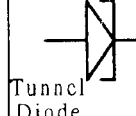
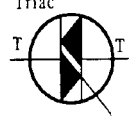
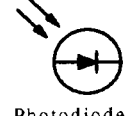
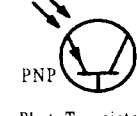

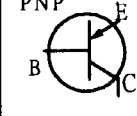
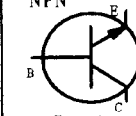

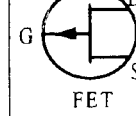
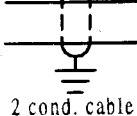
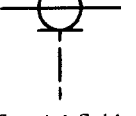

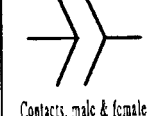

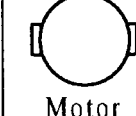

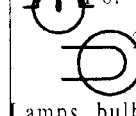
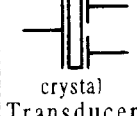

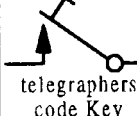
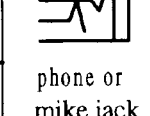

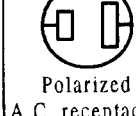
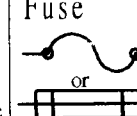
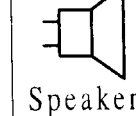


Selected Schematic Symbols. Electronics Circuits are like road maps. Each electronic component, or part, has a symbol representing it and each of its leads, or pins. On a schematic, lines like highways on a roadmap will show you the connections for the parts. The lines could be circuit traces on a PC Board, or simply wiring. On this page are very common symbols, ones that you will encounter soon. There are hundreds more and most are variations of these symbols and easy to figure out. When you 'read' a schematic, each part (symbol) will have an identifying number; for example resistors will be marked 'R1 and R2 etc. and a separate chart will give the value for each number. Capacitors will be C1 and C2 ; the number after the C will get bigger until you have a list of all capacitors and so on for other parts. §

 Antenna Outdoor	 Antenna Outdoor	 Antenna Dipole	 Fixed value U.S. European Resistor	 adjustable Resistor	 Photo Resistor	 Variable resistors, pots Europe	 tapped Resistor
 Thermistor	 Capacitor, fixed	 Capacitor electrolytic	 Capacitor Variable	 air core Inductor	 iron core Inductor	 adjustable Inductor	 tapped Inductor
 V=volts, A=amps Meter	 Meter	 Conductors connected	 Conductors no connection	 SPDT Relay	 iron core Transformer	 SPST Switch	 SPDT Switch
 N.O. Momentary Switch	 N.C. momentary Switch	 multi-pole Switch	 Photocell	 Battery multicell	 Chassis Ground	 Earth Ground	 typical I.C. shown as a rectangle.
 LED	 Capacitive diode varactor	 SCR Thyristor	 full wave bridge	 Diode Rectifier	 Zener Diode	 N-channel MOSFET	 Tunnel Diode
 Triac	 Photodiode	 PNP PhotoTransistor	 P-channel MOSFET transistor	 PNP Transistor	 NPN Transistor	 Darlington Transistor	 FET P-channel
 2 cond. cable shielded	 Coaxial Cable	 Coaxial jack	 Contacts, male & female	 AC & DC Generators	 Motor	 Neon Lamp	 Lamps, bulbs
 crystal Transducer	 Microphone	 telegraphers code Key	 phone or mike jack	 Crystal	 Polarized A.C. receptacle	 Fuse or	 Speaker