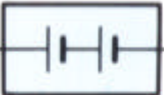
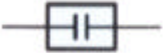
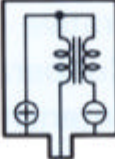
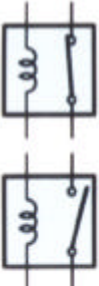
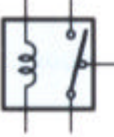
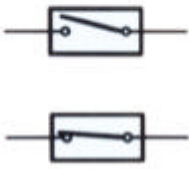
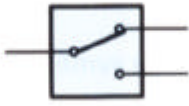
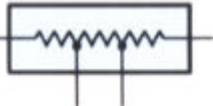
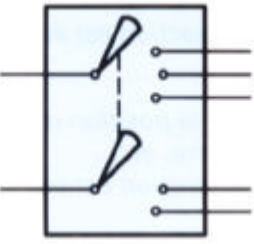
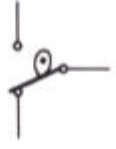
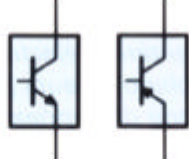
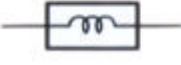


# E GLOSSARY OF TERMS AND SYMBOLS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|  <p><b>BATTERY</b><br/>Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p><b>HEADLIGHTS</b></p> <p>1. <b>SINGLE FILAMENT</b></p> <p>Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament.</p>  <p>2. <b>DOUBLE FILAMENT</b></p>  |
| <p><b>CAPACITOR (Condenser)</b><br/>A small holding unit for temporary storage of electrical voltage.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>CIGARETTE LIGHTER</b><br/>An electric resistance heating element.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>HORN</b><br/>An electric device which sounds a loud audible signal.</p>                                                                                                                                                                                                                                                        |
| <p><b>CIRCUIT BREAKER</b><br/>Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p><b>IGNITION COIL</b><br/>Converts low-voltage DC current into high-voltage ignition current for firing the spark plugs.</p>                                                                                                                                                                                                       |
| <p><b>DIODE</b><br/>A semiconductor which allows current flow in only one direction.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>DIODE, ZENER</b></p>  <p>A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.</p>                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>LIGHT</b><br/>Current flow through a filament causes the filament to heat up and emit light.</p>                                                                                                                                                                                                                             |
| <p><b>DISTRIBUTOR, IIA</b><br/>Channels high-voltage current from the ignition coil to the individual spark plugs.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p><b>LED (LIGHT EMITTING DIODE)</b><br/>Upon current flow, these diodes emit light without producing the heat of a comparable light.</p>                                                                                                                                                                                          |
| <p><b>FUSE</b><br/>A thin metal strip which burns through when too much current flows through it, thereby stopping current flow and protecting a circuit from damage.</p>  <p><b>FUSIBLE LINK</b><br/>A heavy-gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the cross-section surface area of the wires.</p>  <p>(for Medium Current Fuse)</p>  <p>(for High Current Fuse or Fusible Link)</p> | <p><b>METER, ANALOG</b><br/>Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.</p>                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>METER, DIGITAL</b><br/>Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.</p>                                                                                                                                                                            |
| <p><b>GROUND</b><br/>The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p><b>MOTOR</b><br/>A power unit which converts electrical energy into mechanical energy, especially rotary motion.</p>                                                                                                                                                                                                            |

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| <p><b>RELAY</b></p>  <p>1. <b>NORMALLY CLOSED</b></p> <p>2. <b>NORMALLY OPEN</b></p> <p>Basically, an electrically operated switch which may be normally closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.</p> | <p><b>SPEAKER</b></p>  <p>An electromechanical device which creates sound waves from current flow.</p>                                                                                                                                                                                                                                                                                                                      |
|  <p><b>RELAY, DOUBLE THROW</b></p> <p>A relay which passes current through one set of contacts or the other.</p>                                                                                                                                                                                 | <p><b>SWITCH, MANUAL</b></p>  <p>1. <b>NORMALLY OPEN</b></p> <p>2. <b>NORMALLY CLOSED</b></p> <p>Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.</p>                                                                                                                                                                                                                                         |
|  <p><b>RESISTOR</b></p> <p>An electrical component with a fixed resistance, placed in a circuit to reduce voltage to a specific value.</p>                                                                                                                                                       |  <p><b>SWITCH, DOUBLE THROW</b></p> <p>A switch which continuously passes current through one set of contacts or the other.</p>                                                                                                                                                                                                                                                                                            |
|  <p><b>RESISTOR, TAPPED</b></p> <p>A resistor which supplies two or more different non adjustable resistance values.</p>                                                                                                                                                                        |  <p><b>SWITCH, IGNITION</b></p> <p>A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.</p>                                                                                                                                                                                                                                      |
|  <p><b>RESISTOR, VARIABLE or RHEOSTAT</b></p> <p>A controllable resistor with a variable rate of resistance. Also called a potentiometer or rheostat.</p>                                                                                                                                      |  <p><b>SWITCH, WIPER PARK</b></p> <p>Automatically returns wipers to the stop position when the wiper switch is turned off.</p>                                                                                                                                                                                                                                                                                          |
|  <p><b>SENSOR (Thermistor)</b></p> <p>A resistor which varies its resistance with temperature.</p>                                                                                                                                                                                             |  <p><b>TRANSISTOR</b></p> <p>A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at "base".</p>                                                                                                                                                                                                                                                          |
|  <p><b>SENSOR, SPEED</b></p> <p>Uses magnetic impulses to open and close a switch to create a signal for activation of other components.</p> <p>(Reed Switch Type)</p>                                                                                                                         | <p><b>WIRES</b></p> <p>(1) <b>NOT CONNECTED</b></p>  <p>(2) <b>SPliced</b></p>  <p>Wires are always drawn as straight lines on wiring diagrams. Crossed wires (1) without a black dot at the junction are not joined; crossed wires (2) with a black dot or octagonal (O) mark at the junction are spliced (joined) connections.</p> |
|  <p><b>SHORT PIN</b></p> <p>Used to provide an unbroken connection within a junction block.</p>                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  <p><b>SOLENOID</b></p> <p>An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.</p>                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |