

## CHARGING SYSTEMS TROUBLE SHOOTING

CONDITION & POSSIBLE CAUSE	CONDITION & POSSIBLE CAUSE
<p><b>Vehicle Will Not Start</b></p> <ul style="list-style-type: none"> <li>• Dead battery.</li> <li>• Loose or corroded battery connections.</li> <li>• Ignition switch malfunction.</li> </ul> <p><b>Alternator Light Stays ON With Engine Running</b></p> <ul style="list-style-type: none"> <li>• Loose or worn drive belt.</li> <li>• Loose alternator wiring connections.</li> <li>• Short in alternator light wiring.</li> <li>• Defective alternator stator or diodes.</li> <li>• Defective regulator.</li> </ul> <p><b>Alternator Light Stays OFF With Ignition Switch ON</b></p> <ul style="list-style-type: none"> <li>• Blown fuse.</li> <li>• Defective alternator.</li> <li>• Defective indicator light bulb.</li> <li>• Defective indicator light bulb socket.</li> </ul> <p><b>Alternator Light Stays ON With Ignition Switch OFF</b></p> <ul style="list-style-type: none"> <li>• Short in alternator wiring.</li> <li>• Defective rectifier bridge.</li> </ul> <p><b>Lights or Fuses Burn Out Frequently</b></p> <ul style="list-style-type: none"> <li>• Defective alternator wiring.</li> <li>• Defective regulator.</li> <li>• Defective battery.</li> </ul>	<p><b>Ammeter Gauge Shows Discharge</b></p> <ul style="list-style-type: none"> <li>• Loose or worn drive belt.</li> <li>• Defective wiring.</li> <li>• Defective alternator or regulator.</li> <li>• Defective ammeter, or improper ammeter wiring connections.</li> </ul> <p><b>Noisy Alternator</b></p> <ul style="list-style-type: none"> <li>• Loose drive pulley.</li> <li>• Loose mounting bolts.</li> <li>• Worn or dirty bearings.</li> <li>• Defective diodes or stator.</li> </ul> <p><b>Battery Does Not Stay Charged</b></p> <ul style="list-style-type: none"> <li>• Loose or worn drive belt.</li> <li>• Loose or corroded battery connections.</li> <li>• Loose alternator connections.</li> <li>• Defective alternator or battery.</li> <li>• Electrical accessories left ON.</li> <li>• Defective alternator stator or diodes.</li> <li>• Add-on electrical accessories exceeding alternator capacity.</li> <li>• Low speed driving of short duration, insufficient to charge battery.</li> </ul> <p><b>Battery Overcharged - Uses Too Much Water</b></p> <ul style="list-style-type: none"> <li>• Defective battery.</li> <li>• Defective alternator.</li> <li>• Battery overheated.</li> <li>• Excessive alternator voltage.</li> <li>• Low speed driving of short duration.</li> </ul>