Trouble Shooting

CHARGING SYSTEMS TROUBLE SHOOTING

CONDITION & POSSIBLE CAUSE	CONDITION & POSSIBLE CAUSE
Car Will Not Start • Dead battery. • Loose or corroded battery connections. • Ignition switch malfunction. **Generator Light Stays ON With Engine Running** • Loose or worn drive belt. • Loose generator wiring connections. • Short in generator light wiring. • Defective generator stator or diodes. • Defective regulator. **Generator Light Stays OFF With Ignition ON** • Blown fuse. • Defective generator. • Defective indicator light bulb. • Defective indicator light bulb socket. **Generator Light Stays ON With Ignition OFF** • Short in generator wiring. • Defective rectifier bridge. **Lights or Fuses Burn Out Frequently** • Defective generator wiring. • Defective regulator. • Defective battery. **Generator Light Flickers While Vehicle is Being Driven** • Loose or worn generator belt. • Loose or improper wiring connections. • Defective generator. • Defective regulator. **Ammeter Gauge Shows Discharge** • Loose or worn drive belt. • Defective wiring. • Defective generator or regulator. • Defective ammeter, or improper ammeter wiring connections. • Add-on electrical accessories exceeding generator capacity.	**Noisy Generator** • Loose or worn generator drive belt. • Loose drive pulley. • Loose mounting bolts. • Worn or dirty bearings. • Defective diodes or stator. • Bent pulley flanges. • Interference between rotor fan and stator leads. • Rotor fan or rotor damaged. • Rectifiers shorted open. • Open, grounded, or shorted rectifier wiring. • Defective regulator. **Battery Does Not Stay Charged** • Loose or worn drive belt. • Loose or corroded battery connections. • Loose generator connections. • Defective generator or battery. • Electrical accessories left ON. • Defective generator stator or diodes. • Add-on electrical accessories exceeding generator capacity. • Low speed driving of short duration, insufficient to charge battery. **Battery Overcharged - Uses Too Much Water** • Defective battery. • Defective generator. • Defective regulator caused by shorted field windings. • Battery overheated. • Excessive generator voltage. • Low speed driving of short duration. **Generator Current Output Low (with Excessive Charging)** • Grounded generator field wire, field terminal, or connections. • Generator field internally grounded. • Regulator sensing circuit open. **Generator Current Output Low (with Unsteady or Low Charging)** • Corroded or shorted cables. • High resistance across fusible link.