

# Charging Systems

## TROUBLE SHOOTING

CONDITION	POSSIBLE CAUSE	CORRECTION
<b>Vehicle Will Not Start</b>	Dead battery	Check battery cells, alternator belt tension and alternator output
	Loose or corroded battery connections	Check that all charging system connections are tight and clean
	Ignition switch malfunction	Check and replace ignition switch as necessary
<b>Alternator Light Stays ON With Engine Running</b>	Loose or worn alternator drive belt	Check alternator drive belt tension and condition. See Belt Adjustment in TUNE-UP
	Loose alternator wiring connections	Check all charging system connections
	Short in alternator light wiring	See Indicator Warning Lights in SWITCHES, GAUGES & INSTRUMENT PANELS
	Defective alternator stator or diodes	See Bench Tests in ALTERNATORS & REGULATORS
<b>Alternator Light Stays OFF With Ignition Switch ON</b>	Defective regulator	See Regulator Check in ALTERNATORS & REGULATORS
	Blown fuse	See FUSES & CIRCUIT BREAKERS
<b>Alternator Light Stays ON With Ignition Switch OFF</b>	Defective alternator	See Testing in ALTERNATORS & REGULATORS
	Defective indicator light bulb or socket	See Indicator Warning Lights in SWITCHES, GAUGES & INSTRUMENT PANELS
<b>Alternator Light Stays ON With Ignition Switch OFF</b>	Short in alternator wiring	See On Vehicle Tests in ALTERNATORS & REGULATORS
	Defective rectifier bridge	See Bench Tests in ALTERNATORS & REGULATORS
<b>Lights or Fuses Burn Out Frequently</b>	Defective alternator wiring	See On Vehicle Tests in ALTERNATORS & REGULATORS
	Defective regulator	See Regulator Check in ALTERNATORS & REGULATORS
	Defective battery	Check and replace as necessary
<b>Ammeter Gauge Shows Discharge</b>	Loose or worn drive belt	Check alternator drive belt tension and condition. See Belt Adjustment in TUNE-UP
	Defective wiring	Check all wires and wire connections
	Defective alternator or regulator	See Bench Tests and On Vehicle Tests in ALTERNATORS & REGULATORS
<b>Noisy Alternator</b>	Defective ammeter, or improper ammeter wiring connections	See Testing in SWITCHES, GAUGES & INSTRUMENT PANELS
	Loose drive pulley	Tighten drive pulley attaching nut
	Loose mounting bolts	Tighten all alternator mounting bolts
<b>Battery Does Not Stay Charged</b>	Worn or dirty bearings	See Bearing Replacement in ALTERNATORS & REGULATORS
	Defective diodes or stator	See Bench Tests in ALTERNATORS & REGULATORS
	Loose or worn drive belt	Check alternator drive belt tension and condition. See Belt Adjustment in TUNE-UP
	Loose or corroded battery connections	Check that all charging system connections are tight and clean
<b>Battery Overcharged - Uses Too Much Water</b>	Loose alternator connections	Check all charging system connections
	Defective alternator or battery	See On Vehicle Tests and Bench Tests in ALTERNATORS & REGULATORS
	Defective alternator stator or diodes	See Bench Tests in ALTERNATORS & REGULATORS
	Add-on electrical accessories exceeding alternator capacity	Install larger capacity alternator
<b>Battery Overcharged - Uses Too Much Water</b>	Defective battery	Check alternator output and repair as necessary
	Defective alternator	See On Vehicle Tests and Bench Tests in ALTERNATORS & REGULATORS
	Excessive alternator voltage.	Check alternator output and repair as necessary