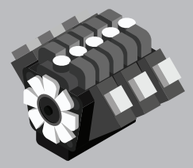
AUTOMOTIVE BATTERY GUIDE

WHAT CAUSES A FLAT BATTERY DURING OPERATION?

1



FAULTY ALTERNATOR

Failed charging system. The alternator can't charge the battery while the engine runs.

2



PARASITIC DRAINS (DRAINAGE)

Accessories like internal lights, alarms, or chargers left on drain power when the car is supposed to be off.

3



LOOSE OR CORRODED CONNECTIONS

Heavy corrosion or loose terminals prevent the battery from charging effectively or starting the car.

4



AGE AND EXTREME TEMPERATURES

Old age and severe cold or heat reduce battery capacity and cause internal damage.

HOW TO TAKE CARE OF YOUR BATTERY

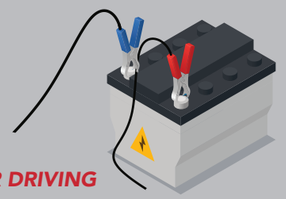
1



CLEAN TERMINALS

Remove corrosion, tighten connections

2



REGULAR DRIVING

Charge battery fully by driving regularly

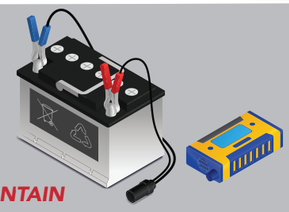
3



SECURE BATTERY

Ensure battery is held down firmly to prevent vibration

4



TEST & MAINTAIN

Periodically test and use a maintenance charger

DID YOU KNOW?

1

Overcharging Your Battery

Overcharging a battery can cause overheating, internal damage, corrosion, and even increase the risk of explosion.

Signs of overcharging:

- Battery overheating
- Bulging battery case
- Discoloured electrolyte
- Excessive gassing

Common causes:

- Faulty vehicle charging systems
- Incorrect external chargers
- Alternator charging at the wrong voltage/current

2

Undercharging Your Battery

Undercharging a battery causes sulfate build-up, which reduces battery performance and can permanently damage the battery over time.

Signs of overcharging:

- Low battery performance
- Pale or buckled plates
- Bulging battery case
- Low SG reads
- Driving Habits

Common causes:

- Faulty vehicle charging systems
- Incorrect external chargers
- Alternator charging at the wrong voltage/current
- No Temperature
- Incorrect external charger
- Correction on alternator

3

Overdischarging Your Battery

Overdischarging a battery can cause permanent internal damage, making it difficult or impossible to recharge properly.

Signs of overcharging:

- Low battery voltage
- Corroded or damaged plates
- Damaged separators
- Poor change acceptance
- Using battery for incorrect application

Common causes:

- Vehicles left unused for long periods
- Parasitic power drains
- Using automotive batteries for the wrong application

4

Cycling Your Battery

Repeated deep discharging can weaken a battery's internal components, causing active material to break away and reduce battery life.

Signs of cycling damage:

- Loss of battery performance
- Sediment build-up inside the battery
- Damaged or weakened active material
- Grids normally intact

Common causes:

- Using SLI batteries for leisure or deep-cycle applications
- Incorrect battery size for the application
- Frequent deep discharging of the battery

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