



Warning signs of a failing battery:

Caution: Batteries usually degrade gradually and don't always give warning before they fail. However, here are some signs of a failing battery:

- > Hard starting, slow cranking
- > Recurring electrical system concerns
- > Battery cables in poor condition or corroded
- > Worn or damaged battery container or terminals
- > Worn alternator/drive belt
- > Leaking battery fluid

Why do batteries fail?

All batteries eventually need replacing due to age. However, certain conditions, like the ones described below, can accelerate battery wear.

- > Excessive vibration
- > Extreme hot or cold weather or under-the-hood temperatures
- > A charging system malfunction
- > Lack of maintenance
- > Wear out from repeated cycling/starting
- > Incorrect usage



Features and benefits of Mazda batteries

A Venting System

Dissipates gases and minimizes corrosion by quickly directing gases away from terminal.

B Top Terminal Fusion

Fuses the terminal cover bushing to the internal post for a solid weld to resist acid seepage and corrosion.

C Increased Post Diameter/Larger Lead Base

Supplies superior current-carrying capacity and vibration protection.

D Side Terminal Design

Allows easy replacement and exact OE fitment.

E Internal Flame Arrestor

Ensures customer and installer protection.

F Continuous Plate-Making Process

Produces a uniform grain structure in the lead alloy and reduces corrosion, resulting in better battery performance and longer life.

G Cast-On-Strap

Provides a high-integrity plate-to-strap bond for reduced internal resistance and prolonged battery life.

H Computer-Controlled Formation

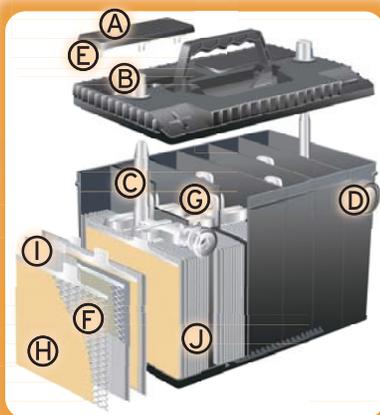
Controls charging rate, amp-hour input, and temperature during plate formation, which increases battery performance and durability.

I Polyethylene Separated Plates

Eliminate shorts from plate contact and normal material shedding.

J Lead/Calcium Alloy

Reduces water loss and self-discharge.



PRODUCT KNOWLEDGE BATTERIES

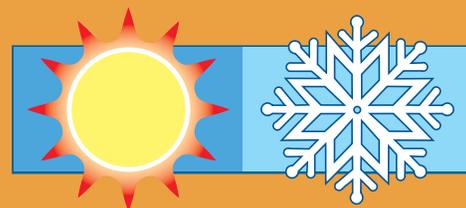
A properly functioning battery is indispensable to the operation of a vehicle. It supplies power to the starter and ignition system in order to start the vehicle. It also provides the extra power necessary when the vehicle's extra load requirements exceed the supply from the charging system, and acts as a voltage stabilizer for the electrical system.

“ANY TIME IS A BAD TIME FOR A FAILED BATTERY”

In general, batteries start to fail at three years. Our research shows that 20% of vehicles three years or older and still on the road with their original battery, may need a battery replacement.



Summer heat and winter cold are a battery's worst enemies. Excessive heat causes battery fluid to evaporate, potentially damaging the internal structure of the battery. However, this summer damage may not affect the performance of a vehicle until the driver tries to start it on a cold winter day. Regular testing is key and can help spot a problem before it results in a surprise breakdown.



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Mazda batteries are manufactured using the highest standards and latest state-of-the-art engineering technology for Original Equipment quality. There is a competitively-priced Mazda battery available to fit all Mazda models.



Basic battery knowledge

This chart provides some key terms used when describing the capability and quality of a battery.

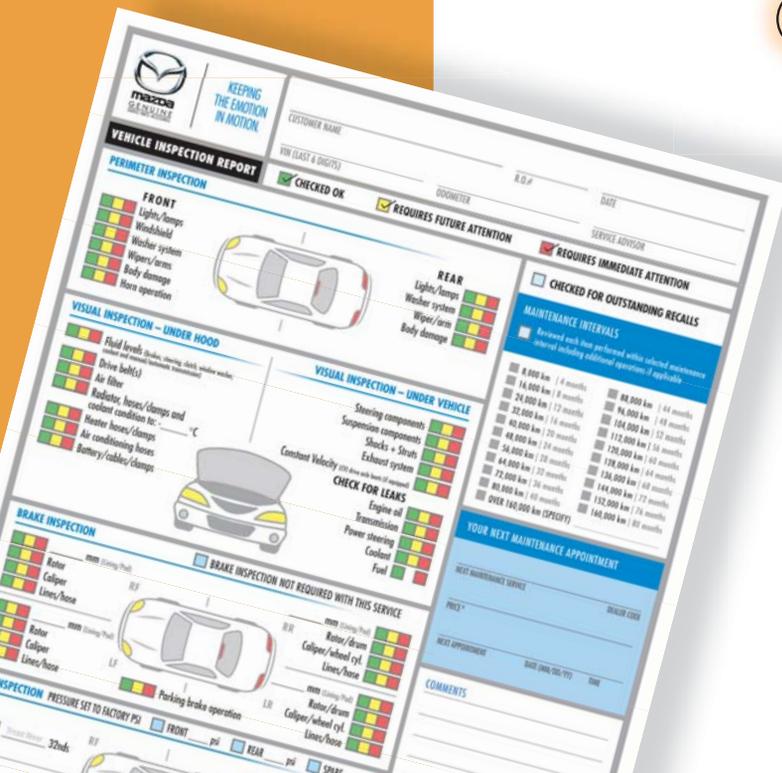
| Term | Definition |
|--------------------------|--|
| Cold Cranking Amps (CCA) | International standard rating battery performance in cold weather, measured at -17.8°C (0°F). The higher CCA, the better the starting power in cold temperatures. |
| Capacity | Measurement of a battery's energy. In general, the higher the capacity, the more powerful the battery. |
| Cycling | A vehicle discharges battery power and the alternator recharges the battery as the car is driven. Each discharge and recharge is called a "cycle". |
| Group size | International standard of numbers and letters used to describe the battery size types (container dimensions, features, types of terminals). The battery group size must be compatible with vehicle specifications. |
| Reserve Capacity (RC) | Power available to the vehicle's electrical system if the alternator fails (or if the electronics are in use while the engine is turned off). Measured in minutes, it is the amount of time the battery can supply power before falling below the minimum power required to run the vehicle. |



Check it on the Vehicle Inspection Report

Mazda Technicians can help spot a problem with a battery before it results in a surprise breakdown; or better still, confirm the battery is fine - for peace of mind. Technicians will:

- > Perform a visual inspection of the battery and connections (including cable clamps, terminal and casing), looking for signs of wear.
- > Indicate a red or yellow condition if a visual inspection results in a problem; or indicate a green condition if the battery is fine. Testing using specialized equipment may be necessary.



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