



## Mazda Alternators Charge up Your Battery

Batavia, IA ([PRWEB](#)) January 8, 2006 -- Considered to be one of the most important parts of a vehicle is the alternator. Alternators are used in automobiles to charge the battery and to power all of your vehicle's electric systems when the engine is running. As one of the vital and basic parts of the vehicle, Mazda has taken into account to provide each and every automobile they manufacture an alternator that would provide a fine ride for Mazda drivers.

Alternators are made to be simple, light, rugged, yet durable. This stronger construction of Mazda alternators allows them to turn at higher speed, allowing an automotive alternator to turn at twice the engine speed, moreover improving output when the engine is idling. Much of the electrical energy needed by the various parts of your Mazda actually comes from the alternator for this is the part that converts the mechanical energy to become electrical energy.

Older vehicles use DC generators. However, with the previous reasons mentioned, Mazda has used alternators. This is a type of generator that has the ability to convert mechanical energy to electrical energy through the form of alternating currents. Its main function is to charge the vehicle's battery, and while the engine is running, it also functions to power all the other electrical and electronic components installed in the vehicle.

A Mazda alternator is made up of four basic parts: the rotor, the stator, the diode packs, and the voltage regulator. Primarily, the rotor is a magnet that rotates around the stator. The stator is a core of iron wrapped with copper wires. Working together, the rotor and the stator pair up and generate alternating current, which then would be later converted by the diode packs to become direct current. This direct current is what your Mazda uses to charge the battery and also power all the other electrical components in the vehicle. Another part of the Mazda alternator is the voltage regulator and this part is used to control and maintain the amount of voltage that is given off by the alternator.

If your Mazda alternator fails, your vehicle may still run however only for several minutes for without the alternator to recharge your battery, your Mazda would eventually stop. Causes of Mazda alternator failure could include a defective or broken alternator belt, which could be replaced easily with a new one. However, if what causes failure is damage in the rotor, stator, diode packs or voltage regulator, it would then require a replacement of the whole alternator unit.

With Mazda giving its best in providing its vehicles the proper and quality details that only a Mazda has, it is only fitting that <http://www.partstrain.com> offers top of the line Mazda parts like alternators to match Mazda's manufacturing standards.

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<http://www.partstrain.com/ShopByVehicle/MAZDA>

Jenny McLane is a 36 year old native of Iowa and has a knack for research on cars and anything and everything about it. She works full time as a Market Analyst for one of the leading car parts suppliers in the country today.

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