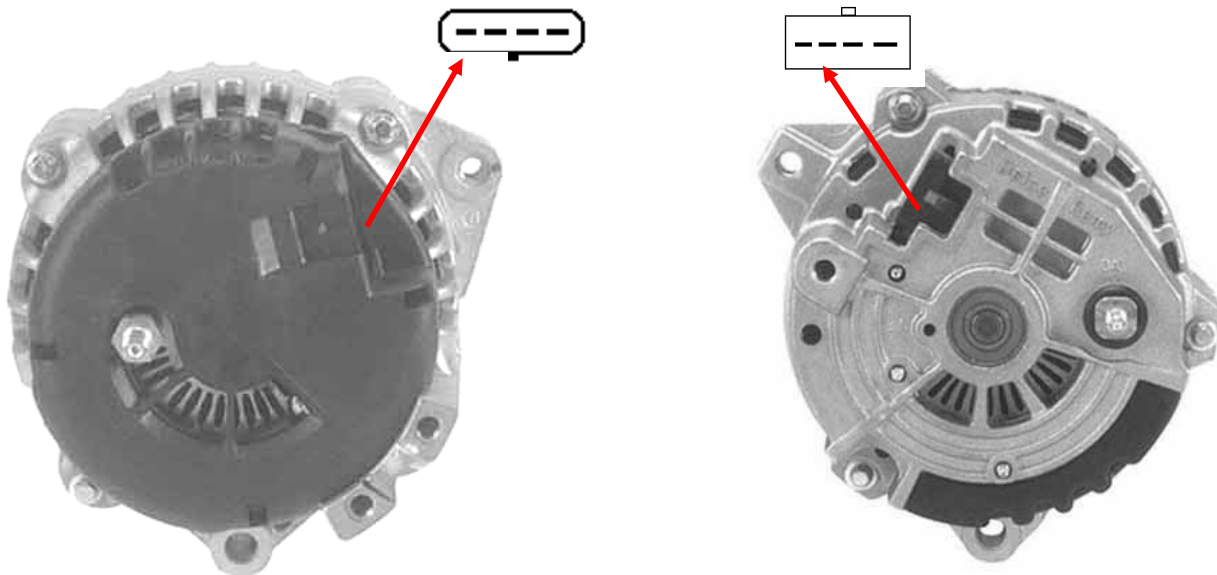


## Testing CS Alternators With ASVR Regulators

General Motors has changed the voltage regulators that are used in their CS line of alternators. This new series of regulators is called ASVR. All Silicon Voltage Regulators. These regulators are used in both new alternators as well as in the aftermarket for existing alternators that have been around for years. What is essential to remember about these regulators is that they are far more susceptible to damage if tested or installed incorrectly.

When doing a pre- or post-test of any CS alternator in a store, it is important to observe three rules.

- 1) Always clamp on the battery cable first, and then push in the regulator plug.
- 2) NEVER remove the battery clamp or regulator plug before the alternator has come to a COMPLETE stop.
- 3) When removing the alternator always pull the regulator plug first, then remove the battery clamp.



Customers installing and removing these alternators from their vehicle need to exercise similar cautions. Always start any removal or installation process by removing the negative battery cable first.

**CAUTION:** Removing the battery cable from the back of an alternator (while it is running) to test the alternator is “Old School”. This will load dump voltage and destroy most all types of regulators, CS, import, or domestic.

