



**C. E. Niehoff & Co.**  
BRUSHLESS ALTERNATORS

# Technical Bulletin

## Product Information

**Issue Date:** March 30, 1999

**TB Number:** TB0002A

**Topic:** Up-grade, Drive-end housing & Voltage regulator, C609

**Customer:** All mining vehicle applications

C.E. Niehoff & Company has received inquiries regarding use of the drive-end housing and voltage regulator from the recently released CEN C612 alternator as an up-grade to the C609 alternators presently in use.

The drive-end housing and the voltage regulator from a C612 may be installed on the C609 during repair or overhaul of the C609. C.E. Niehoff & Co. recommends the up-grade. It should be remembered that BOTH housing **and** regulator must be changed in the up-grade.

The technician performing the A5-526 housing up-grade will have no difficulty completing the installation because:

- all of the stator phase leads are connected exactly the same on both units.
- field leads are connected exactly the same on both units.
- remember, there are no 'E' (energize) or 'R' (relay) terminals on the A5-526 housing.

There will be a difference in voltage regulator connections. Voltage regulators are not interchangeable.

- The 'R' terminal that was found on the drive-end housing of the C609 is now located on the new voltage regulator, model A2-141.
- there is no 'E' terminal on the new A5-526 housing. It is not used and is therefore not needed.
- there is a 'D+' terminal on the A2-141 regulator that is used for a "No Charge" lamp. The 'D+' circuit is a ground when the alternator is not running and is a voltage output when the alternator is operating.

After completing the up-grade, and for future reference, re-stamp the name tag on the alternator to indicate that the up-grade was made.

Alternator	C609	C612
Drive-end housing terminals	A5-211 'E', 'R', 'B+'	A5-526 'B+'
Voltage regulator terminals	A2-126 none	A2-141 'R', 'D+'

**Please file this CEN Technical Bulletin with your CEN Literature.**

**Please forward a copy of this information to the appropriate people in your company.**