

Source: Leece-Neville Heavy Duty Systems Division – Arcade, NY

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Models: 4000AA Series

Subject: Upgrade Instructions



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This Technical Service Bulletin was created to explain how to change a vehicles charging system from:

- A.) Externally Rectified / Remote Regulated to Alternator with Internal Rectifiers and Internal Regulator.
- B.) Alternator with Remote Regulator to Alternator with Internal Regulator.

Step 1: Remove battery cables from the batteries: Ground first, Positive second.

Step 2: Remove all wires from the Alternator, then remove the Alternator.

Step 3a: If your system has an External Rectifier (Part #C0011111CA, C0011112CA, C0011115CA).
Locate and remove rectifier and all wiring.
Locate and remove the 5078R or 8RD2041 Regulator and remove it and the wiring.

Step 3b: If your system doesn't have the External Rectifier, locate and remove the External Regulator.
Insulate the disconnected wires so they don't short. Secure them out of the way. Remove Regulator and if possible remove wiring.

Step 4: Install the new Alternator on the engine. If the old alternator was only Externally Regulated, install the existing Battery cables to the Alternator, then install the cables to the Battery (Positive first then Ground), and test the system.

If your system had the External Rectifier, you will need to make new battery cables with protective sleeving on the ends. Positive (Red) from the Alternator + to the Starter Solenoid + and Ground (Black) from the Alternator - to the starter ground - or at the battery ground termination point. Be sure to avoid heat sources and pinch points. Add a protective sleeving on cables. Be sure to carefully route and secure these cables. Use the following chart to make the new cables:

Recommended
14 & 28 Volt Systems Total Circuit Length Minimum Wire Size

60 - 70 Amps	15 Feet or less	#6
	16 - 25 Feet	#4
	26 - 40 Feet	#2
80 - 125 Amps	15 Feet or less	#4
	16 - 25 Feet	#2
	26 - 40 Feet	#0
130 - 250 Amps	15 Feet or less	#0
	16 - 25 Feet	#2/0
	26 - 40 Feet	#4/0
250 - 350 Amps	0 - 14 Feet	#4/0

Important: The information contained in this bulletin is intended for use by trained, professional technicians who have the proper tools, equipment, and training to perform the required maintenance described above. This information is NOT intended for 'do-it-yourselfers', and you should not assume that this information applies to your equipment. If you have any questions regarding this information please visit our website at www.prestolite.com, or contact our technical service department at:

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