

Source: Leece-Neville Heavy Duty Systems Division - Arcade, NY USA
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Bulletin No: TSB-1161
Models: 8SC3017VA (110-575), 8SC3018VA (110-576), 8SC3200V, 8SC3127V
Subject: Bench Testing Procedure

Bench Testing Procedure For 24 VOLT OUTPUT BATTERYLESS ALTERNATORS

All of the models listed above are designed to operate only air conditioning systems without the aid of batteries.

These alternators have **no internal voltage sensing capabilities** so they require a special method of testing or the voltage will run away causing damage to the regulator.

PROCEDURE: Must be in exact order below to prevent voltage run away.
(May go as high as 80 volts)

1. Mount alternator on test bench and connect two 12 volt batteries in series (24 volts) and a load bank set at 100 amps to the output terminals B+ to B-.
2. Turn on the Load Bank
3. Turn on test bench motor and bring alternator speed up to 4000 to 5000 RPM
4. Excite the alternator (8SC3017VA must have 24 volts, 8SC3018VA must be 12 volts, 8SC3200V and 8SC3127V will excite off 12 or 24 volts).

IMPORTANT: The method used to excite alternator, whether it is an external battery, or the output batteries, or a power supply the common must be connected to B- for the field to excite.

5. If the alternator is a good unit the output voltage should between 27 to 28 volts.
6. Disconnect the excitation voltage.
7. Slow down the motor on test bench to a stop.
8. Turn off the load bank, and disconnect the batteries.
9. Test Complete

Note: When any Batteryless alternator is installed in a vehicle to be used to power the air conditioning system without the use of batteries to suppress any voltage spikes, correctly sized capacitors must be installed to prevent damage to the alternator and electrical system.

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: