



# Alternator Regulator

MODELS AFFECTED: 2004-2006 Blue Bird Visions

# BULLETIN

## ISSUE

Regulators failures on Model 4834LC 175 alternator

## CORRECTIVE ACTION

Replace existing regulator with new regulator per Leece -Neville's instructions

## PROCEDURE

Leece-Neville has issued a Technical Service Bulletin dated 08-20-05 which provides an improved regulator for the Leece-Neville Model 4834LC 175 amp alternator installed on the Blue Bird "Vision" with Cat C7 engine. A copy of the Leece-Neville Technical Service Bulletin is attached.

If the regulator on your bus has not been remotely mounted, review and follow the instructions provided in the attached Leece-Neville Technical Service Bulletin dated 08-20-05. Only alternators manufactured prior to the alternator manufactured date code of 200518 are authorized by Leece-Neville for modification.

The Leece-Neville Technical Service Bulletin applies to Blue Bird Vision buses manufactured from July 16, 2003 through May 15, 2005.

Replacement regulators *are* available from Blue Bird Service Parts.

Modifications should be performed by a qualified repair technician. Labor time required to perform service Bulletin S05JZ is 0.4hrs.

Distributors may submit warranty applications to Blue Bird VIA ClaimTrac (use create campaign/bulletin claim).

Service Bulletin S05JZ expires one year from date of issue.

LEECE-NEVILLE NUMBER	BLUE BIRD NUMBER	DESCRIPTION
102200	8312381	Regulator, Int, Alt, Leece-Neville

S05JZ

S E R V I C E B U L L E T I N

**Source:** Leece Neville Heavy Duty Systems – Technical Services

**Date:** 8-20-05

**Subject:** 102200 regulator product improvement “Blue Bird - Vision” equipped with alternators manufactured prior to 200518

**Model:** 4834LC 175 amp alternator

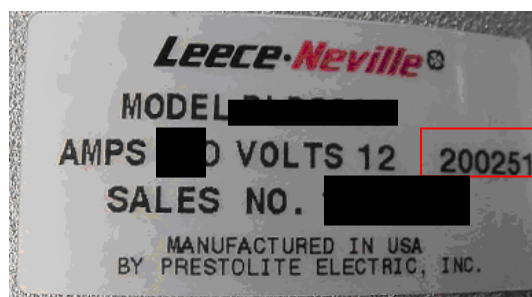
The new R213102200 regulator has been improved to withstand the rigorous heat demands of today's engines. This improvement increases the regulators resiliency to temperatures that can reach 200F. It also has been designed to withstand the rapid rate of temperature change as identified in winter months on today's engines.

When replacing the existing regulator part number 102200 is required and must be obtained thru Blue Bird Service Parts.



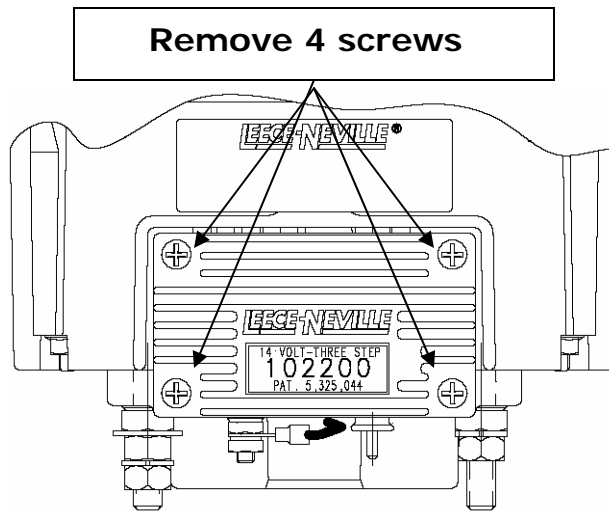
### How to identify alternator date code:

Each alternator manufactured has a part label on the outer face of the alternator. On this label one will find a 6 digit date reference number. This number represents the year of manufacture followed by the week of manufacture. Repair is authorized on alternators manufactured prior to 200518

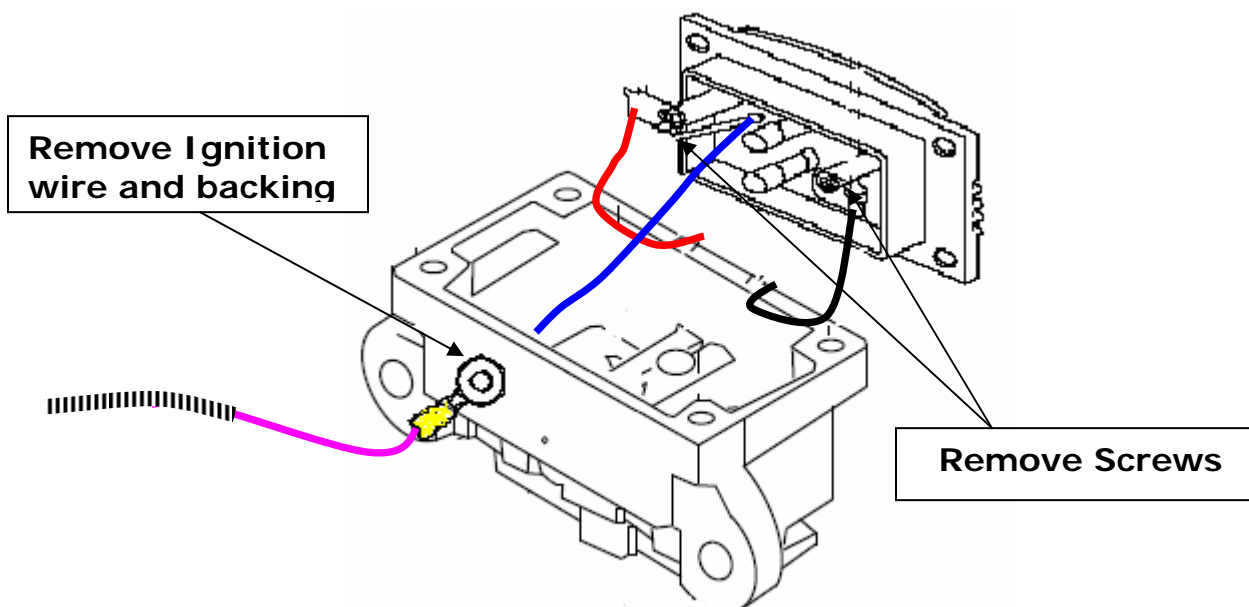


## Replacement instructions:

- A. Disconnect all "earth" ground cables at the battery.
- B. Remove the 4 screws that attach the regulator to the alternator.

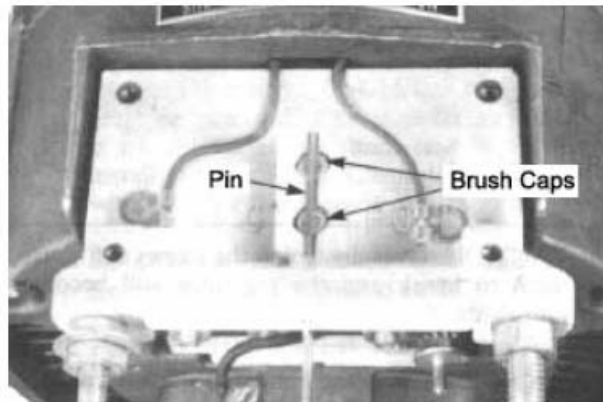


- C. Gently pry and lift regulator upward from the alternator housing. Then rotate regulator onto edge. Utilize caution as the electrical wires which attach to the alternator allow minimal extension of the regulator from the housing of the alternator.
- D. Remove small Phillips type fasteners which attach the red and black wire leads to the regulator.
- E. Remove the ignition wire from the rear of the brush box.
- F. Remove the attachment nut from the outside of the alternators brush box that holds the ignition pass thru terminal into place. Press ignition terminal stud into the alternator brush box and remove the ignition stud from the blue wire.
- G. Displace existing regulator and install the new regulator.



## Install new regulator following the below procedures:

- A.** Locate and reinstall ignition stud thru blue ignition wire of regulator and push thru brush box. While holding the ignition stud into place. Secure the ignition stud to brush box utilizing the stud and nut removed in step F. above
- B.** Re-attach ignition wire leading from chassis electrical harness to ignition stud of alternator.
- C.** Attach the red and black wires to the new regulator which were removed in step B. above utilizing supplied Phillips screws.
- D.** Insert rear brush and spring into brush box housing and secure with a holding pin. Accomplish this by inserting a piece of mechanics wire or a 1/16" drill bit into the small opening in rear of brush box. While holding pin onto rear brush cap. Now insert the front brush and spring into the brush holder then gently slip the holding pin forward over the front brush cap. The holding pin should extend over front brush and into opening in the front of the brush box to temporarily secure both brushes into the brush box housing.



- E.** Place regulator into brush box and hold firmly into place. Ensure that the red and black wires are seated into the slotted openings in the front of the brush box ensuring they are not pinched between the regulator and the brush box upon installation. While firmly holding regulator into place remove the brush holding pin which was installed in step D. Install 4 regulator mounting screws.
- F.** Re- attach ground cables at the battery.
- G.** Attach a volt meter to the positive and negative output terminals of the alternator respectively and start the engine. Once the engine has started the voltage of the alternator should increase to a range of 13.8 volts to 14.2 volts.
- H.** Complete the appropriate documentation required by the bus manufacture and submit a repair claim thru normal procedures. A standard time allowance of .4 hours is allowed for the completion of this repair.

---

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](http://www.prestolite.com) , or contact our customer service department at: