

Source:	Prestolite Electric Ltd - Greenford, London, UK
Date:	October 24, 2014
Bulletin No:	TSB4061 (Rev.0)
Models:	AVI147 Alternators
Subject:	Regulator replacement instructions

### Purpose of instructions:

A guide to correctly install a replacement regulator on AVI147 alternators.

### Tools required:

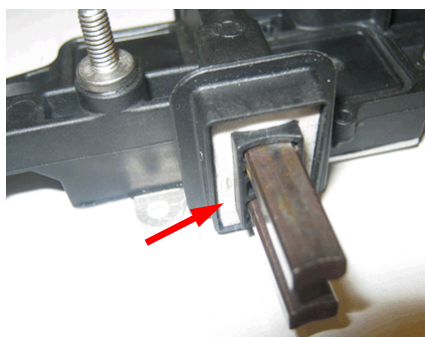
Torque wrench (0 - 20 N.m)  
Phillips screw driver  
13mm Socket

### Regulator repair kit selection guide.

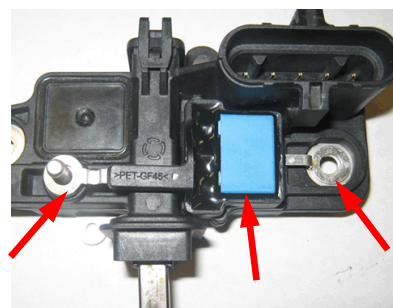
ALTERNATOR	REGULATOR KIT	REGULATOR
AVI147S3003HD	6524-179	1861902
AVI147S3006HD	6524-179	1861902
AVI147S3007HD	6524-179A	1861900
AVI147S3008HD	6524-179	1861902
AVI147S3009HD	6524-179	1861902
AVI147S3010HD	6524-179	1861902
AVI147S3011HD	6524-179	1861902
AVI147S3012HD	6524-179	1861902
AVI147S3013HD	6524-179	1861902
AVI147S3015HD	6524-179	1861902
AVI147S3016HD	6524-179A	1861904
AVI147S3019HD	6524-179	1861902
AVI147S3020HD	6524-179	1861902
AVI147S3021HD (see TSB4059)	6524-179	1861902

### Installation instructions

1. Fit the sealing washer.  
Locate inside the brush box recess, as shown.



2. Locate capacitor assembly on the regulator, as shown below. Ensure the capacitor is correctly seated.



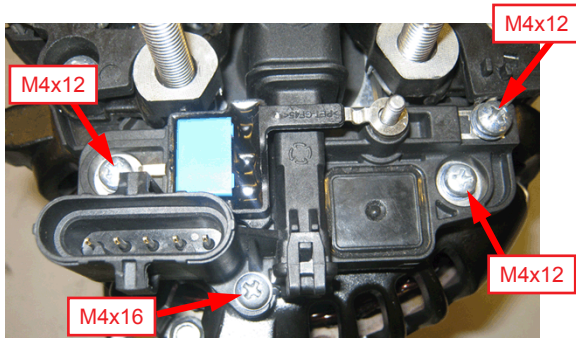
**Important:** The information contained in this bulletin is intended for use by trained, professional technicians who have the proper tools, equipment, and training to perform the required maintenance described above. This information is NOT intended for 'do-it-yourselfers', and you should not assume 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 technical service department at:

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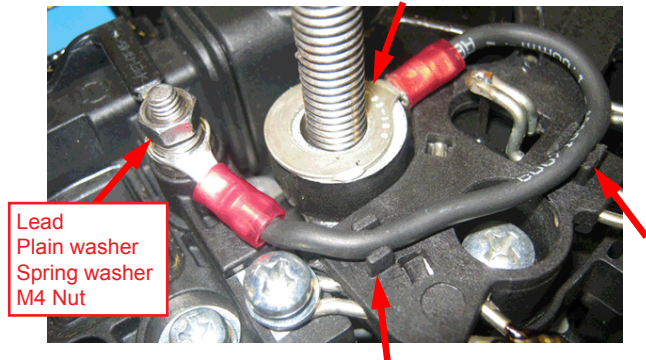
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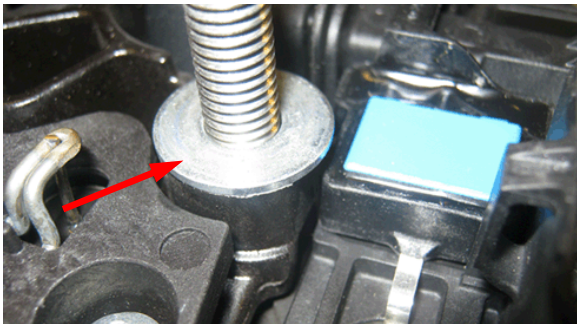
3. Mount the regulator onto the alternator.  
Fit mounting screws, 2 off (M4x12) and 1 off (M4x16).  
Fit phase connection screw (M4x12).  
Tighten all to 2.0-2.5 Nm.



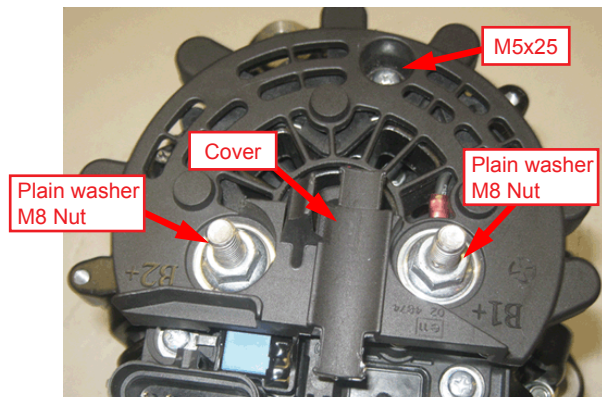
4. Install positive lead onto the regulator M4 stud.  
(Ring terminal, plain washer, spring washer and M4 nut). Tighten to 13.0-15.0 Nm.  
Locate the lead in the lead guides on the rectifier assembly, as shown.



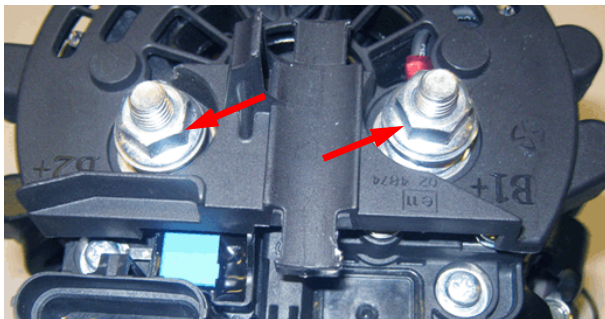
5. Fit the spacer onto the B+ terminal on the capacitor side.



6. Fit the rear cover onto the alternator assembly.  
Fit a plain washer and M8 flange nut to B1+ and B2+.  
Fit cover screw (M5x25) with Loctite 243.  
Torque M8 nuts and M5 screw to 3.5-4.3 Nm.



7. Fit second set of M8 flange nuts to the B1+ and B2+ terminals. Finger tighten.



8. Test alternator functionality using a bench tester.  
Alternator is now ready for installation.

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