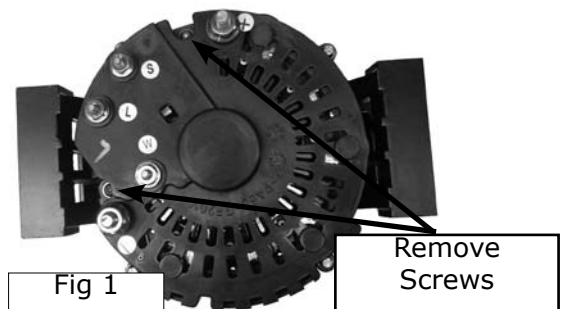


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Models: AVI160J2004, AVI160J2008, AVI160P2003, AVI160P2007  
Subject: Regulator/ brush assembly change procedure

**Step by step procedure on how to replace the regulator/ brush holder assembly on AVI 160 J-180 and Pad Mount alternators.**

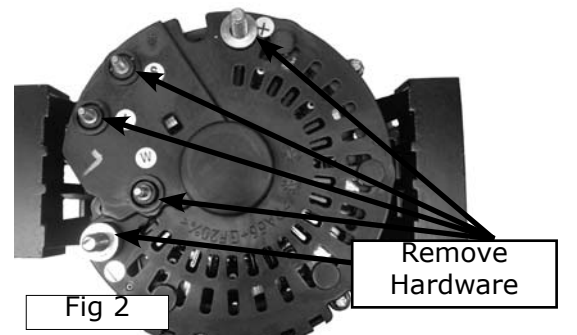
Step 1: Remove rear cover mounting screws. (Fig 1)

Note: Keep cover mounting screws as these will be reused.



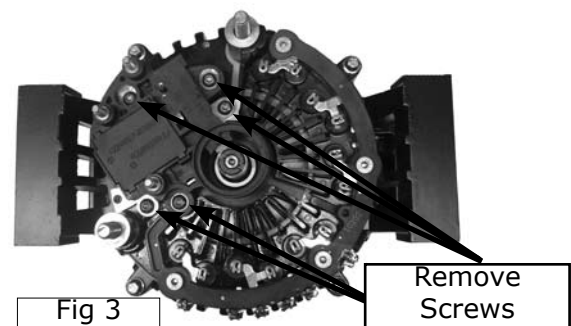
Step 2: Remove terminal hardware and rear cover. (Fig 2)

Note: Keep hardware and cover as these will be reused.



Step 3: Remove regulator mounting screws and lift regulator/ brush assembly from alternator. (Fig 3)

Note: New regulator mounting screws are furnished with the replacement voltage regulator.



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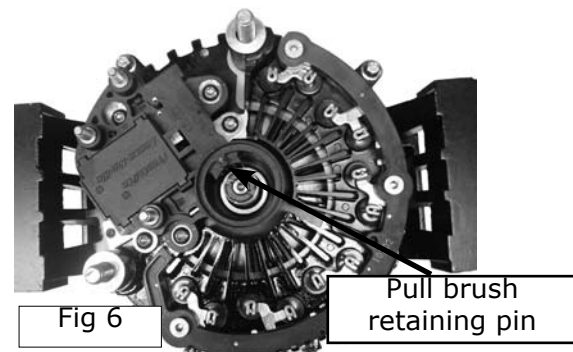
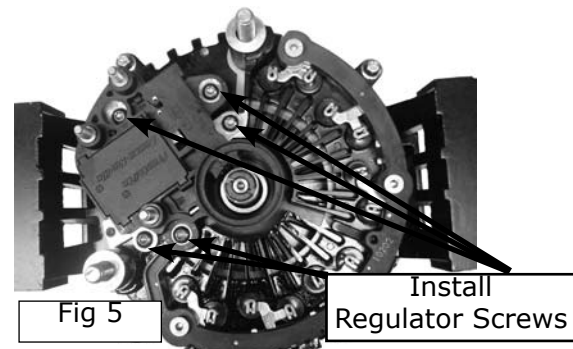
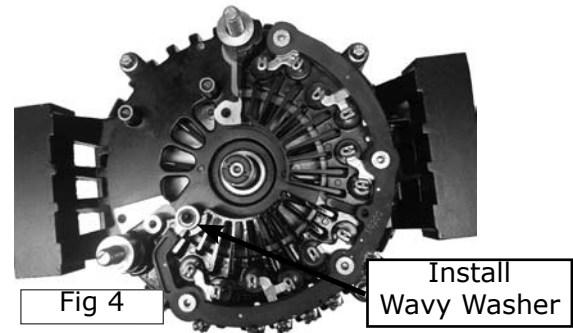
Step 4: Install wavy washer. (Fig 4)

Note: Wavy washer is furnished with replacement regulator

Step 5: Insert replacement voltage regulator using new regulator mounting screws furnished with replacement regulator. (Fig 5)

Torque screws to: 2.25 +/- 0.3 Nm  
20 +/- 2.7 Lb-in.

Step 6: Pull brush retaining pin and discard. (Fig 6)



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Step 7: Install rear cover using original cover mounting screws. (Fig 7)

Torque screws to: 2.25 +/- 0.3 Nm  
20 +/- 2.7 Lb-in.

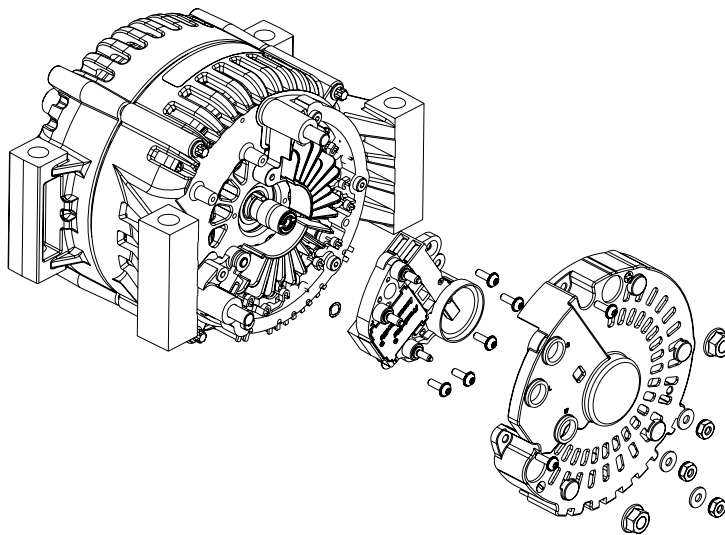
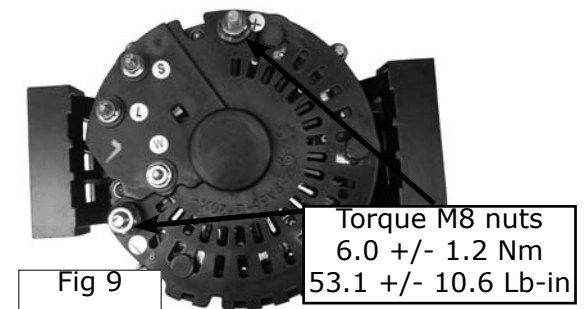
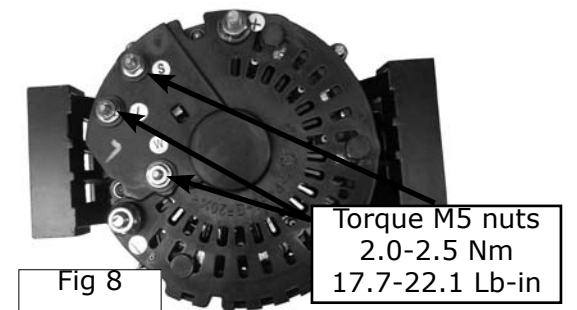
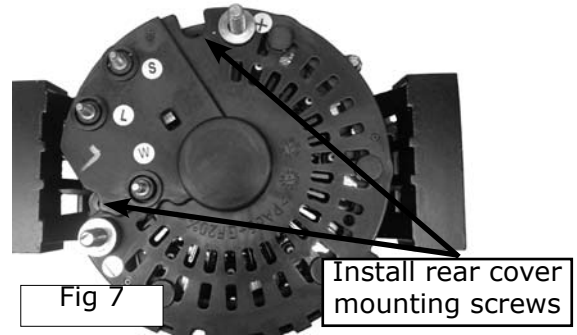
Step 8: Install M5 terminal hardware. (Fig 8)

Torque screws to: 2.0 - 2.5 Nm  
17.7 - 22.1 Lb-in.

Step 9: Install M8 Nuts. (Fig 9)

Torque screws to: 6.0 +/- 1.2 Nm  
53.1 +/- 10.6 Lb-in.

Step 10: Conversion complete.



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