TITLE
60 AMPERE ALTERNATOR BRUSH REPLACEMENT

EFFECTIVITY
The following airplanes currently equipped with part number 9910591-11, 9910591-11RX, 9910591-12 or 9910591-12RX alternator that was manufactured or overhauled on August 23, 1995 through August 17, 2004 and has 700 hours or less time in service (TIS):

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 thru 17281255</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 thru 172S9745</td>
</tr>
<tr>
<td>182S</td>
<td>18280001 thru 18280944</td>
</tr>
<tr>
<td>182T</td>
<td>18280945 thru 18281447</td>
</tr>
<tr>
<td>206H</td>
<td>20608001 thru 20608237</td>
</tr>
<tr>
<td>T206H</td>
<td>T20608001 thru T20608266</td>
</tr>
</tbody>
</table>

Affected 9910591-11, 9910591-11RX, 9910591-12, and 9910591-12RX alternators in Service Station stock should be returned to Cessna.

REASON
To transmit Kelly Aerospace Turbine Rotables Service Information Letter: Accelerated Brush Wear 9910591 Series Alternators.

DESCRIPTION
It has been determined that alternators manufactured and/or overhauled on August 23, 1995 through August 17, 2004 may have brushes made of material that could reduce the service life of the alternator. It is recommended that these alternators be replaced.
COMPLIANCE

Recommended; should be accomplished at the next scheduled 100 hour/annual type inspection, not to exceed 12 months.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

MANPOWER

1.0 man-hour per airplane when accomplished during a scheduled 100 hour/annual type inspection.

REFERENCES


NOTE: Make sure all publications used are complete and current.

OTHER PUBLICATIONS AFFECTED

Model 172R and Model 172S Illustrated Parts Catalog
Model 182S/182T/T182T Illustrated Parts Catalog
Model 206H/T206H Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current.

MATERIAL PRICE AND AVAILABILITY

The following are available from Cessna Parts Distribution through an appropriate Cessna Service Station for the suggested list price shown.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty/Airplane</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>9910591-11RX</td>
<td>Alternator (172, 182)</td>
<td>1 (if required)</td>
<td>$385.00 (C) ea. (Plus a core deposit of $700.00)</td>
</tr>
<tr>
<td>9910591-12RX</td>
<td>Alternator (206)</td>
<td>1 (if required)</td>
<td>$405.00 (C) ea. (Plus a core deposit of $700.00)</td>
</tr>
</tbody>
</table>

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE
CREDIT INFORMATION

Affected 9910591-11, 9910591-11RX, 9910591-12, and 9910591-12RX alternators in Service Station stock should be returned to Cessna for credit per standard procedures.

A. For airplanes that are within warranty and have an affected alternator with 700 hours or less TIS: Applicable parts credit and a labor allowance credit of 1.0 man-hour per airplane will be provided to remove and replace the affected alternator as described in this Service Bulletin.

Freight will be credited at the most economical method unless pre-approved by Cessna. For pre-approval contact Cessna Parts Distribution Warranty Administration at Telephone: 316-831-4296, Fax: 316-206-2746 or E-mail: cpd2claims@cessna.textron.com.

B. For airplanes that are beyond warranty and have an affected alternator with 700 hours or less TIS: Appr o rate dp parts credit will be provided toward a remanufactured replacement alternator as follows: $193.00 for the 9910591-11RX and $203.00 for the 9910591-12RX. If the current installed alternator is a previous replacement alternator, a copy of the logbook entry for when the replacement alternator was installed must be included with the Warranty Claim.

NOTE: Distributor/Service Station will be credited 50% of the purchase price for the replacement alternator. Shipping and replacement labor costs are not covered.

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station within 30 calendar days of Service Bulletin compliance before the credit expiration dates shown below. The removed alternator must be returned with the Warranty Claim.

Domestic .................. December 18, 2007
International ............... December 18, 2007

ACCOMPLISHMENT INSTRUCTIONS

Weight And Balance Information

WEIGHT CHANGE ............... Negligible

1. Determine if the alternator is affected by review of the attached Kelly Aerospace Turbine Rotables Service Information Letter: Accelerated Brush Wear 9910591 Series Alternators dated June 19, 2006 and/or applicable airplane paperwork such as logbooks and/or applicable work orders and sales/shipping receipts or by visually inspecting the alternator.

   A. If not affected, proceed to Step 11.

   B. If affected, proceed to Step 2.

2. Electrically ground the airplane and turn all switches to the “OFF” position. If external power is connected to the airplane, disconnect external power from receptacle.

3. Disconnect the airplane battery. (Refer to the applicable airplane model Maintenance Manual, Chapter 24, Electrical Power.)

4. Attach maintenance warning tags to the battery and external power receptacle with the following instruction: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS.

5. Remove the existing alternator from the airplane. (Refer to applicable sections of the appropriate airplane model Maintenance Manual.)

6. Remove the external capacitor from the removed alternator and install it in the same location on the replacement alternator.

7. Install the replacement alternator on the airplane. (Refer to applicable sections of the appropriate airplane model Maintenance Manual.)

8. Remove maintenance warning tags from battery and external power receptacle.
9. Reconnect the airplane battery. (Refer to the applicable airplane model Maintenance Manual, Chapter 24, Electrical Power.)

10. Perform an alternator operation check by verifying bus voltage of approximately 28 volts.

11. Make an entry in the airplane logbook stating compliance and method of compliance with this Service Bulletin.

**OWNER NOTIFICATION**

On January 2, 2007 the following Owner Advisory message will be sent to applicable owners of record in SB06-24-03.

Dear Cessna Owner:

This Owner Advisory is to inform you that Service Bulletin SB06-24-03 has been issued to transmit Kelly Aerospace Turbine Rotables Service Information Letter: Accelerated Brush Wear 9910591 Series Alternators. It has been determined that alternators manufactured and/or overhauled on August 23, 1995 through August 17, 2004 may have brushes made of material that could reduce the service life of the alternator. It is recommended that these alternators be replaced if the alternator has 700 hours or less time in Service (TIS).

Your airplane is affected if it is currently equipped with a part number 9910591-11, 9910591-11RX, 9910591-12 or 9910591-12RX alternator that was manufactured or overhauled on August 23, 1995 through August 17, 2004 and has 700 hours or less time in service (TIS):

Compliance is recommended, should be accomplished at the next scheduled 100 hour/annual type inspection, not to exceed 12 months.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer’s Service/Maintenance Manual and should be accomplished within the specified time requirement.

A. For airplanes that are within warranty and have an affected alternator with 700 hours or less TIS: Applicable parts credit and a labor allowance credit of 1.0 man-hour per airplane will be provided to remove and replace the alternator as described in SB06-24-03.

B. For airplanes that are beyond warranty and have an affected alternator with 700 hours or less TIS: A prorated parts credit will be provided toward a remanufactured replacement alternator as follows: $193.00 for the 9910591-11RX and $203.00 for the 9910591-12RX. Shipping and labor costs are not covered.

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station within 30 calendar days of Service Bulletin compliance before the credit expiration dates shown below.

<table>
<thead>
<tr>
<th></th>
<th>December 18, 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>December 18, 2007</td>
</tr>
<tr>
<td>International</td>
<td>December 18, 2007</td>
</tr>
</tbody>
</table>

Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB06-24-03 accomplished on your airplane.

* * * * * * *
Dear Cessna Owner:

This Owner Advisory is to inform you that Service Bulletin SB06-24-03 has been issued to transmit Kelly Aerospace Turbine Rotables Service Information Letter: Accelerated Brush Wear 9910591 Series Alternators. It has been determined that alternators manufactured and/or overhauled on August 23, 1995 through August 17, 2004 may have brushes made of material that could reduce the service life of the alternator. It is recommended that these alternators be replaced if the alternator has 700 hours or less time in Service (TIS).

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Domestic ................. December 18, 2007
International ............... December 18, 2007

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Accelerated Brush Wear
9910591 Series Alternators

INTRODUCTION:
Kelly Aerospace Turbine Rotables recognizes that certain alternators were manufactured with brushes that historically have exhibited accelerated wear. This condition may result in premature brush exhaustion, which results in the loss of output from the alternator. On August 18, 2004, a new brush was introduced in these alternators, in order to increase the reliability. Since the introduction of the new brushes, data indicates that brush life has increased substantially.

SCOPE:

Note: Vendor Part Numbers ASG10001-17, and ASG10001-18 contain second-generation brushes and are not affected by this SIL.

On Black and Silver data plates (New, Figure 1) the two key values required for eligibility are:
1. VENDOR P.N. = ASG10001-11 or ASG10001-12
   AND
2. SER NO. = A-105196 thru A-175657

On Red and Silver data plates (Overhauled, Figure 2) the two key values required for eligibility are:
1. ORIGINAL MFG. = AERO ELECTRIC
   AND
2. S.N. = A-105196 thru A-175657

COMPLIANCE:
Kelly Aerospace recommends that all affected units be replaced at the next 100-hour/annual inspection. Alternators with more than 700 hours of time in service are not affected by this bulletin.