TITLE

VACUUM PUMP INSPECTION/REPLACEMENT

EFFECTIVITY

The airplanes listed below equipped with the Nav I or Nav II Avionics option that have had any of the following replacement vacuum pumps installed:

NOTE: Airplanes equipped with the Garmin G1000 Nav III Avionics option are not affected.

Also affected are any of the below listed replacement vacuum pumps in Service Station stock.

A new Aero Accessories, Inc. vacuum pump model number AA3216CW, serial number N31670 thru N33993 and N33995 thru N34175.

An overhauled Airborne vacuum pump model 216CW, serial number 36735 thru 38464, 38466 thru 38505, 38507 thru 38509, 38511, 38515, 38518 thru 39508, 39510 thru 39964, 39973 thru 40002 and 40021 thru 40087. These vacuum pumps were manufactured or overhauled on March 1, 2005 through August 11, 2005. Affected vacuum pumps sold by Cessna Parts Distribution would have shipped on May 6, 2005 through August 27, 2005.

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 thru 17281240, 17281252 and 17281259</td>
</tr>
<tr>
<td>182S</td>
<td>18280001 thru 18280944</td>
</tr>
<tr>
<td>182T</td>
<td>18280945 thru 18281317, 18281408, 18281411, 18281436, 18281447, 18281455, 18281525, 18281541, 18281542, 18281551, 18281581, 18281620 and 18281651</td>
</tr>
<tr>
<td>T182T</td>
<td>T18208001 thru T18208231, T18208276 and T18208310</td>
</tr>
</tbody>
</table>
Model Serial Numbers

206H 20608001 thru 20608215, 20608219, 20608228, 20608231, 20608232, 20608235, 20608236, 20608239, 20608245, 20608248 and 20608249

T206H T20608001 thru T20608449

NOTE: None of these airplanes were delivered from Cessna with an affected vacuum pump.

REASON

To transmit Tempest Mandatory Service Bulletin Number SB-003: Vacuum Pump Replacement.

DESCRIPTION

According to Aero Accessories, Inc.: A number of vacuum pumps with Aero Accessories model number AA3216CW (new pumps) and a number of overhauled Airborne vacuum pumps with model number 216CW may not have been manufactured or overhauled in conformance with acceptable standards. These pumps may fail prematurely. The vacuum pumps shall be inspected and if necessary, replaced as described in this Service Bulletin. Non-compliance with this Service Bulletin could result in failure of an affected vacuum pump that may affect the operation and accuracy of vacuum powered flight instruments.

COMPLIANCE

Mandatory; shall be accomplished within the next 50 hours of operation or 60 days, whichever occurs first. Do not conduct flight in Instrument Flight Rule meteorological conditions or at night until an affected pump is removed and replaced with a non-affected pump.

NOTE: The airplane is equipped with two vacuum pumps installed on the engine. The upper vacuum pump rotates in a counter clockwise direction and the lower vacuum pump rotates in a clockwise direction.

APPROVAL

Refer to the attached Tempest Mandatory Service Bulletin Number SB-003 (or latest revision).

MANPOWER

Approximately 0.2 man-hour for inspection
If necessary, 1.5 man-hours for vacuum pump replacement

REFERENCES

Tempest Mandatory Service Bulletin Number SB-003 (or latest revision)

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

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for continued airworthiness and must be accomplished for ongoing airworthiness compliance as required per 14 CFR Part 43.13.
OTHER PUBLICATIONS AFFECTED

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

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

MATERIAL PRICE AND AVAILABILITY

The parts below 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>AA3216CW</td>
<td>Vacuum Pump</td>
<td>1 (if required)</td>
<td>$ 562.00 (LN) ea</td>
</tr>
<tr>
<td>S3346-1</td>
<td>Gasket</td>
<td>1 (if required)</td>
<td>$ 1.45 (PS) ea MQ 10</td>
</tr>
</tbody>
</table>

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

CREDIT INFORMATION

For airplanes on which an affected vacuum pump has been installed that was purchased from Cessna: a labor allowance credit of 0.2 man-hour per airplane will be provided for the vacuum pump inspection. If necessary, applicable parts credit and a labor allowance credit of 1.5 man-hours will be provided to replace an affected vacuum pump.

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.

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. Any removed vacuum pump and the airplane model and serial number from which the vacuum pump was removed shall be returned with the Warranty Claim.

Domestic ........................................ May 7, 2006
International .................................... July 7, 2006
ACCOMPLISHMENT INSTRUCTIONS

1. Refer to the attached Tempest Mandatory Service Bulletin Number SB-003 (or latest revision). Determine if an affected vacuum pump is installed by review of applicable airplane paperwork such as logbooks and/or applicable work orders and sales/shipping receipts or by visual inspection of the vacuum pump.
   A. If an affected vacuum pump is installed, go to Step 2.
   B. If an affected vacuum pump is not installed, go to Step 6.

2. Electrically ground the airplane and turn all switches to the OFF position. Disconnect the airplane battery and if external power is connected to the airplane, disconnect external power from receptacle. (Refer to the applicable model airplane Maintenance Manual, Chapter 24, Electrical Power.)

3. Attach maintenance warning tags to the battery and external power receptacle that have "DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS" written on them.

4. Remove and replace the affected vacuum pump. (Refer to the applicable model airplane Maintenance Manual, Chapter 37, Vacuum System - Maintenance Practices.)

5. Connect the airplane battery and remove the maintenance warning tags. (Refer to applicable airplane model Maintenance Manual, Chapter 24, Electrical Power.

6. Make appropriate entries in the airplane and engine logbooks stating compliance with this Service Bulletin/Tempest Mandatory Service Bulletin Number SB-003 (or latest revision).
On November 7, 2005 the following message will be sent to applicable owners of record in SB05-37-01A.

Dear Cessna Owner:

This Owner Advisory is to inform you that Service Bulletin SB05-37-01 has been issued to transmit Tempest Mandatory Service Bulletin Number SB-003: Vacuum Pump Replacement.

Your airplane may be affected if it is equipped with the Nav I or Nav II Avionics option and any of the following replacement vacuum pumps have been installed:

**NOTE:** Airplanes equipped with the Garmin G1000 Nav III Avionics option are not affected.

A new Aero Accessories, Inc. vacuum pump model number AA3216CW, serial number N31670 thru N33993 and N33995 thru N34175.

An overhauled Airborne vacuum pump model 216CW, serial number 36735 thru 38464, 38466 thru 38505, 38507 thru 38509, 38511, 38515, 38518 thru 39508, 39510 thru 39964, 39973 thru 40002 and 40021 thru 40087.

According to Aero Accessories, Inc.; A number of vacuum pumps with Aero Accessories model number AA3216CW (new pumps) and a number of overhauled Airborne vacuum pumps with model number 216CW may not have been manufactured or overhauled in conformance with acceptable standards. These pumps may fail prematurely. The vacuum pumps shall be inspected and if necessary, replaced as described in SB05-37-01. Non-compliance with SB05-37-01 could result in failure of an affected vacuum pump that may affect the operation and accuracy of vacuum powered flight instruments.

Compliance is mandatory; shall be accomplished within the next 50 hours of operation or 60 days, whichever occurs first. Do not conduct flight in Instrument Flight Rule meteorological conditions or at night until an affected pump is removed and replaced with a non-affected pump.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for continued airworthiness, and must be accomplished for ongoing airworthiness compliance as required per 14 CFR Part 43.13.

For airplanes on which an affected vacuum pump has been installed that was purchased from Cessna: a labor allowance credit of 0.2 man-hour per airplane will be provided for the vacuum pump inspection. If necessary, applicable parts credit and a labor allowance credit of 1.5 man-hours will be provided to replace an affected vacuum pump.

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>Domestic</th>
<th>May 7, 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>International</td>
<td>July 7, 2006</td>
</tr>
</tbody>
</table>

Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB05-37-01/Tempest Mandatory Service Bulletin Number SB-003 (or latest revision) accomplished on your airplane.