TITLE
FUEL - INSPECTION OF 5100-00-4 ELECTRIC FUEL PUMP

EFFECTIVITY

Group A Airplanes:
The following airplanes were delivered with an 5100-00-4 Electric Fuel Pump with a serial number in the suspect range identified in this service document:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SERIAL NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>172S</td>
<td>172S12129 thru 172S12182</td>
</tr>
</tbody>
</table>

Group B Airplanes:
The following airplanes if the 5100-00-4 Electronic Fuel Pump has been installed as spares between October 1, 2017 and the date of receipt of this service document:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SERIAL NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 and On</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 and On</td>
</tr>
<tr>
<td>182S</td>
<td>18280001 thru 18280944</td>
</tr>
</tbody>
</table>

NOTE: Also affected are fuel pumps received in Authorized Service Facility stock.

REASON
Some fuel pumps have been identified to have incorrectly installed seal and possible FOD that can cause pump vanes to stick or not pump correctly and must be replaced. A pump with an incorrectly installed seal does not meet engineering design and a pump with FOD can make a grinding noise during operation or fail to pump fuel. During a flight situation where the auxiliary electric fuel pump is required to provide fuel to the engine, a pump that is not pumping correctly or stops pumping fuel, can cause a total loss of engine power.

DESCRIPTION
This service document provides parts and instructions to inspect the maintenance records for suspect fuel pump serial numbers and replace the fuel pump if a suspect fuel pump is installed.

NOTE: Fuel pumps that have a serial number with an "R" suffix have been reworked by the manufacture and are acceptable for use. It is not necessary to replace a fuel pump that has a serial number with an "R" suffix.
COMPLIANCE

MANDATORY. This service document must be accomplished at the next 100-hour or 12-month (annual-type) inspection.

A service document published by Textron Aviation may be recorded as completed in an aircraft log only when the following requirements are satisfied:

1) The mechanic must complete all of the instructions in the service document, including the intent therein.
2) The mechanic must correctly use and install all applicable parts supplied with the service document kit. Only with written authorization from Textron Aviation can substitute parts or rebuilt parts be used to replace new parts.
3) The mechanic or airplane owner must use the technical data in the service document only as approved and published.
4) The mechanic or airplane owner must apply the information in the service document only to aircraft serial numbers identified in the Effectivity section of the document.
5) The mechanic or airplane owner must use maintenance practices that are identified as acceptable standard practices in the aviation industry and governmental regulations.

No individual or corporate organization other than Textron Aviation is authorized to make or apply any changes to a Textron Aviation-issued service document or flight manual supplement without prior written consent from Textron Aviation.

Textron Aviation is not responsible for the quality of maintenance performed to comply with this document, unless the maintenance is accomplished at a Textron Aviation-owned Service Center.

CONSUMABLE MATERIAL

No specialized consumable materials are required to complete this service document.

TOOLING

No specialized tooling is required to complete this service document.

REFERENCES

Cessna Model 172R/172S Maintenance Manual

PUBLICATIONS AFFECTED

None
ACCOMPLISHMENT INSTRUCTIONS

1. Do an inspection of the maintenance log book and serial sheet for the serial number of the installed 5100-00-4 Fuel Pump.

Serial Number List of Suspect 5100-00-4 Fuel Pumps

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>142</th>
<th>283</th>
<th>444</th>
<th>1067</th>
</tr>
</thead>
<tbody>
<tr>
<td>1163</td>
<td>1209</td>
<td>1482</td>
<td>1858</td>
<td></td>
</tr>
<tr>
<td>3431</td>
<td>4350</td>
<td>4503</td>
<td>5486</td>
<td></td>
</tr>
<tr>
<td>5855</td>
<td>6067</td>
<td>6111</td>
<td>6112</td>
<td></td>
</tr>
<tr>
<td>6571</td>
<td>6962</td>
<td>7069</td>
<td>7099</td>
<td></td>
</tr>
<tr>
<td>7548</td>
<td>7610</td>
<td>7663</td>
<td>7670</td>
<td></td>
</tr>
<tr>
<td>7937</td>
<td>8358</td>
<td>8360</td>
<td>8367</td>
<td></td>
</tr>
<tr>
<td>8526</td>
<td>8772</td>
<td>8899</td>
<td>9336</td>
<td></td>
</tr>
<tr>
<td>11862</td>
<td>13283 thru 13412</td>
<td>13419 thru 13502</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Fuel pumps that have a serial number with an "R" suffix have been reworked by the manufacturer and are acceptable for use. It is not necessary to replace a fuel pump that has a serial number with an "R" suffix.

A. If a suspect serial number fuel pump is installed, go to Step 2.
B. If a suspect serial number fuel pump is not installed, go to Step 5.

2. Prepare the airplane for maintenance.

A. Make sure that the airplane is electrically grounded.
B. Make sure that all switches are in the OFF/NORM position.
C. Disconnect electrical power from the airplane.
   (1) Disconnect the airplane battery.
   (2) Disconnect external electrical power.
D. 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 the maintenance warning tags and connect the airplane battery.

5. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.
MATERIAL INFORMATION

Order the kit/parts below to install this modification.

<table>
<thead>
<tr>
<th>NEW P/N</th>
<th>QUANTITY</th>
<th>KEY WORD</th>
<th>OLD P/N</th>
<th>INSTRUCTIONS/DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>M83248/2-908</td>
<td>2</td>
<td>O-Ring</td>
<td>Same</td>
<td>Discard Old, Install New</td>
</tr>
<tr>
<td>5100-00-4</td>
<td>1</td>
<td>Fuel Pump</td>
<td>Same</td>
<td>Install pump, Return removed pump</td>
</tr>
</tbody>
</table>

The existing 5100-00-4 Fuel Pump may be returned to Textron Aviation Parts Distribution, Warranty Administration, 285 South Greenwich Road, Bldg B89, Docks 1-4, Wichita, KS 67206, USA, and exchanged for an upgraded unit. Due to limited availability, advance scheduling is required, please expedite the return of the removed part.
TITLE
FUEL - INSPECTION OF 5100-00-4 ELECTRIC FUEL PUMP

TO:
Cessna Model 172R, 172S, and 182S Aircraft Owner

REASON
Some fuel pumps have been identified to have incorrectly installed seal and possible FOD that can cause pump vanes to stick or not pump correctly and must be replaced. A pump with an incorrectly installed seal does not meet engineering design and a pump with FOD can make a grinding noise during operation or fail to pump fuel. During a flight situation where the auxiliary electric fuel pump is required to provide fuel to the engine, a pump that is not pumping correctly or stops pumping fuel, can cause a total loss of engine power.

COMPLIANCE
MANDATORY. This service document must be accomplished at the next 100-hour or 12-month (annual-type) inspection.

LABOR HOURS
For planning purposes only:

<table>
<thead>
<tr>
<th>WORK PHASE</th>
<th>LABOR-HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modification</td>
<td>5.0</td>
</tr>
</tbody>
</table>

MATERIAL AVAILABILITY

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>AVAILABILITY</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>M83248/2-908</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>5100-00-4RX</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

The existing 5100-00-4 Fuel Pump may be returned to Textron Aviation Parts Distribution, Warranty Administration, 285 South Greenwich Road, Bldg B89, Docks 1-4, Wichita, KS 67206, USA, and exchanged for an upgraded unit. Due to limited availability, advance scheduling is required, please expedite the return of the removed part.

In cases where the required part(s) are approved as exchange, order the exchange part and, upon completion, expedite the return of the removed part to avoid return penalties. Contact a Textron Aviation Authorized Service Facility for availability of exchange parts.

* Please contact a Textron Aviation Authorized Service Facility for current cost and availability of parts listed in this service document.
WARRANTY

This service document is mandatory. Eligible airplanes may qualify for parts and labor coverage to the extent noted in the Labor Hours and Material Availability sections of this document.

Eligibility: All airplanes identified within the serial number effectivity of this service document that have a suspect 5100-00-4 Fuel Pump installed.

Parts Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities, operators, or other maintenance facilities may submit a claim for the parts required to accomplish this service document as defined in the Material Availability section of this document.

Labor Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities rated to perform maintenance on the specific model of Cessna Aircraft may submit a claim for the labor necessary to accomplish this service document as defined in the Labor Hours section of this document.

Credit Application: After this service document has been accomplished, a claim must be submitted to Textron Aviation within 30 days of the service document completion. Claims for compliance of this service document are to be filed as a W4 type claim.

Please submit your claim form online at ww2.txtav.com/Parts or email the completed Textron Aviation Claim Form to warranty@txtav.com. If submitted on-line a Return Authorization will be provided. If a paper claim is submitted your claim will be entered into the system and a Return Authorization will be sent to you.

The Return Authorization must accompany any required return parts (see Material Availability), to the point of purchase.

Parts to be returned to Textron Aviation Parts Distribution should be forwarded to:

Textron Aviation Parts Distribution
Warranty Administration
285 South Greenwich Road
Bldg B89, Docks 1-4
Wichita, KS 67206
USA

Expiration: November 2, 2019 (after this date the owner/operator assumes the responsibility for compliance costs)

Textron Aviation reserves the right to void continued airplane warranty coverage for the parts affected by this service document until the service document is accomplished.

NOTE: As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the Customer Access link at www.txtavsupport.com to register.