SUBJECT: START POWER ENGAGED WARNING CIRCUIT MODIFICATION.


TIME OF COMPLIANCE: At next maintenance action.

INTRODUCTION: The M20 series aircraft listed above have a starter motor electrical power engaged warning system installed. The warning system annunciator panel will illuminate "start power engaged" during normal operation of the starter switch or if a short occurs in the starter switch circuit. The warning system will not illuminate if the starter relay contacts stick in the shorted position.

A change to the wire connections at the starter solenoid will allow the annunciator to illuminate in any case where a malfunction may supply power to the starter.

NOTE: Press to test button of annunciator will not illuminate start power engaged light.

INSTRUCTIONS: Reference Figure 1 "was" illustration for current configuration and identification of wire no. 21PS08A18 and diode no. 21PS05A. This wire must be disconnected and soldered to fuse holder as shown in Figure 1 "now" configuration. The diode shown in "was" illustration must be removed and discarded. Connect wire no. 21PS08C18 to the inlay fuse holder and starter solenoid terminal as shown in the "now" illustration.

REFERENCE DATA: N/A

PARTS LIST:  

<table>
<thead>
<tr>
<th>PART</th>
<th>QTY</th>
<th>P/N</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>M20-61-1</td>
<td>1</td>
<td>155020 or 155120</td>
<td>Fuse Holder/Littelfuse</td>
</tr>
<tr>
<td>KIT</td>
<td>1</td>
<td>313001</td>
<td>Fuse (1 AMP)/Littelfuse</td>
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<tr>
<td></td>
<td>1</td>
<td>21PS08C18</td>
<td>Wire Assembly</td>
</tr>
</tbody>
</table>

FIGURES/TABLES: Figure 1

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**FIGURE 1**

WAS:

1. Remove diode 21PS05A.
2. Add fuse 21PS05C18 in fuse holder.
3. Connect wire 21PS08C18 to starter solenoid terminal.
4. Wire 21PS07C02 to power relay.
5. Wire 21PS04D06 to annunciator.

NOW:

1. Connect wire 21PS08A18 to starter solenoid terminal.
2. Wire 21PS07D02 to power relay.
3. Wire 21PS04D06 to annunciator.
4. Add fuse 21PS05C18 in fuse holder.
5. Change wire connection.