Embraer Phenom 300 Certified Sealed Lead Acid Battery Installation

**FAA STC SA00959DE**

**Main Battery Upgrade** –
Gill 7639-34 (24V, 34Ah) battery is replaced with RG-390E (24V, 28Ah) or RG-390E/30 (24V, 30Ah). Gill 7638-36 (24V, 36Ah) or 7638-48P (24V, 48Ah) is replaced with RG-380E/44 (24V, 42Ah) or RG-380E/60L (24V, 48Ah) or RG-380E/53L (24V, 53Ah). All replacements are used for engine starting and essential loads.

- Reduced cost per flight hour
- Increased service life
- Improved performance
- Proven reliability

STC provides for the installation of RG-390E or RG-390E/30 and RG-380E/44 or RG-380E/53L or RG-380E/60L Concorde batteries in place of the original equipment lead acid batteries in Embraer EMB-505 aircraft. This STC provides the opportunity to select the battery combination that meets your unique capacity and fleet requirements.

1) Remove existing lead acid battery in accordance with (IAW) Embraer EMB-505 Aircraft Maintenance Manual.

2) Install Concorde RG-390E or RG-390E/30 battery IAW EMB-505 Aircraft Maintenance Manual. On aircraft where a spacer is necessary for a proper fit between the aircraft battery hold down and battery, install P/N 7000.

3) Install Concorde RG-380E/44 or RG-380E/53L or RG-380E/60L battery IAW EMB-505 Aircraft Maintenance Manual.

4) Perform the battery operational test IAW EMB-505 Aircraft Maintenance Manual.

STC includes P/N 7000 and installation instructions.

"Executive AirShare has replaced the original batteries in our Embraer Phenom fleet with the Concorde batteries. We have been very pleased with the results. The in service life of the batteries is almost double, and the in-the-field failure rate has been dramatically reduced.” - Gary Veer, Director of Maintenance at Executive AirShare

**CONCORDE BATTERY CORPORATION**
2009 San Bernardino Road | West Covina, CA 91790 USA
626-813-1234 | Fax 626-813-1235 | www.ConcordeBattery.com
ISO 9001 + AS9100 | Crafted for Quality in the U.S.A.

**...the heart of your aircraft**
# FAA STC SA00959DE

**Main Battery Upgrade –**

**BATTERY 1 REPLACEMENT OPTIONS**

<table>
<thead>
<tr>
<th>Battery 1 Replacement Options</th>
<th>Rated Capacity C1 in Ah</th>
<th>IPP 23°C / 74°F</th>
<th>IPP -18°C / 0°F</th>
<th>IPP -30°C / -22°F</th>
<th>Maximum Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-390E</td>
<td>28Ah</td>
<td>1350</td>
<td>950</td>
<td>1025</td>
<td>800</td>
</tr>
<tr>
<td>RG-390E/30</td>
<td>30Ah</td>
<td>1525</td>
<td>1100</td>
<td>1100</td>
<td>800</td>
</tr>
</tbody>
</table>

**BATTERY 2 REPLACEMENT OPTIONS**

<table>
<thead>
<tr>
<th>Battery 2 Replacement Options</th>
<th>Rated Capacity C1 in Ah</th>
<th>IPP 23°C / 74°F</th>
<th>IPP -18°C / 0°F</th>
<th>IPP -30°C / -22°F</th>
<th>Maximum Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-380E/44</td>
<td>42Ah</td>
<td>1350</td>
<td>1000</td>
<td>875</td>
<td>750</td>
</tr>
<tr>
<td>RG-380E/53L</td>
<td>53Ah</td>
<td>1650</td>
<td>1200</td>
<td>1325</td>
<td>1000</td>
</tr>
<tr>
<td>RG-380E/60L</td>
<td>48Ah</td>
<td>1600</td>
<td>1200</td>
<td>1200</td>
<td>950</td>
</tr>
</tbody>
</table>

## Miscellaneous

P/N 7000 – Spacer, Embraer EMB-505, Aux Battery

P/N 5-0677 – Installation Instructions, Embraer 505 Battery Upgrade