

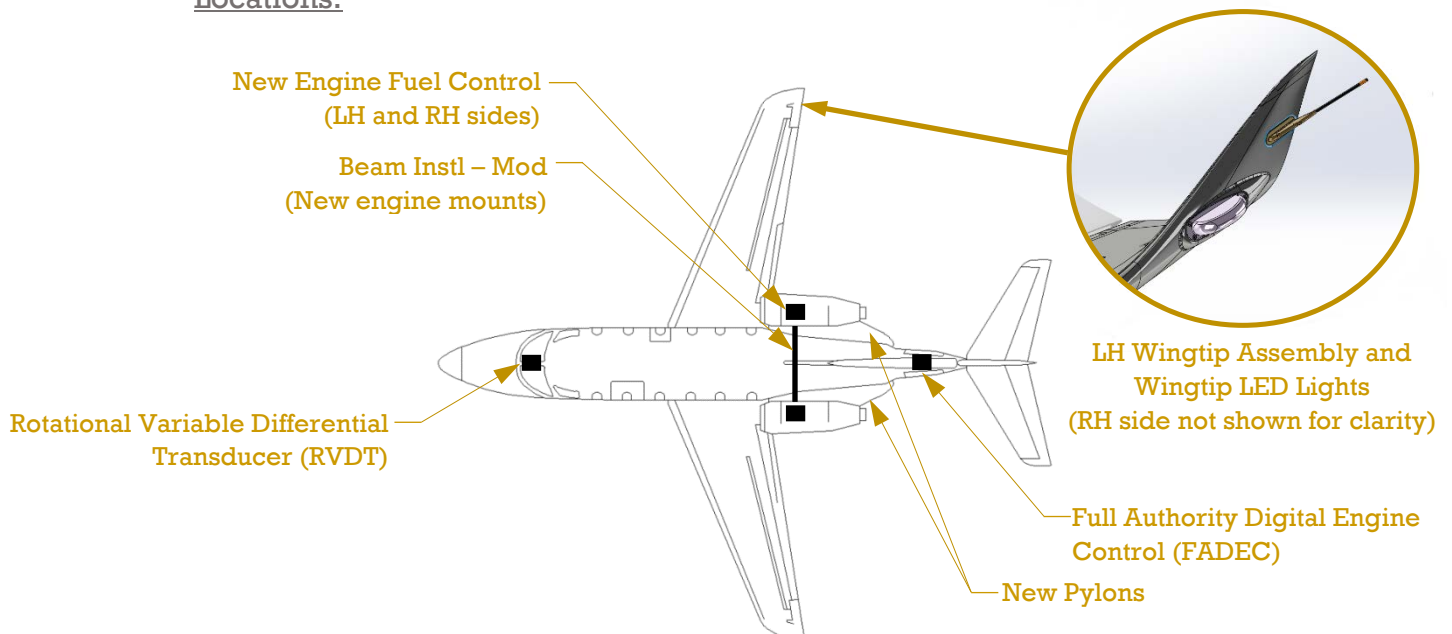
FJ44-3AP Engines and Wingtip STC Information Sheet

FAA STC# ST02371LA, Beechcraft Model 400A aircraft, one-time use, \$25,000.

- **STC# ST02371LA allows for:**
 - Replacement of Pratt & Whitney JT15D-5 series engines with Williams International FJ44-3AP engines. Includes Full Authority Digital Engine Control (FADEC) and associated systems.
 - Removal of existing wingtips which includes upgrading the existing red/green navigation lights and the anti-collision lights to LEDs, which incorporates anti-collision light power supply into the wingtip light.
 - Removal of the navigation light in the top section of the vertical stabilizer.
 - Removal of the aft fuselage anti-collision power supply. This eliminates a major source of EMI. No more high voltage.
 - Installation of new Wing-tip Assemblies, aka winglets.
 - Installation of new LED navigation and anti-collision light assembly. LEDs use less electrical power, and are more reliable.

Equipment Description	Part number	QTY
Full Authority Digital Engine Control (FADEC)	123866	2
Rotational Variable Differential Transducer (RVDT)	3A21200096	2
Beam Instl - Mod	N530100-001	1
LH Wingtip Assembly (Winglet)	NX0047-5720-0100-001	1
RH Wingtip Assembly (Winglet)	NX0047-5720-0100-002	1
LH Wingtip LED Light	87-03916-001	1
RH Wingtip LED Light	87-03917-001	1

Locations:



- Williams FJ44-3AP Engines:
 - The installation of the FJ44 engines with FADEC is a pre-requisite for upgrading Autothrottles.
 - 5% more fuel efficient.
 - Fuel/oil heat exchanger which eliminated the need for anti-icing fuel additive.
 - FADEC equipped. RVDT eliminates mechanical throttle to engine fuel control, which means no more:
 - Throttle cables running from the cockpit to the engines.
 - Time consuming maintenance headaches (Linkage wear, cable tension, adjustments, travel, limits, stops).
 - Cable hysteresis.
 - Higher Bleed Air Pressure (BAP).
 - On the Pratt & Whitney Engines, the Pressure Regulating Shutoff Valve (PRSOV) could only run with full bleed air when the throttle was above 60%. Below 60% there was less bleed air flow for anti-ice and air conditioning. With the FJ44 engine, full bleed air is available throughout power range.

- STC Data Package:
 - Letter of Authorization (LOA)
 - FAA STC Certificate
 - EASA STC Certificate
 - Master Data List (MDL)
 - Instructions for Continued Airworthiness (ICA)
 - Airplane Flight Manual Supplement (AFMS)
 - Weight and Balance Supplement
 - Electrical Load Analysis (ELA)
 - Wiring Diagram
 - Structural/Installation Drawing