

**Champion/Bellanca/American Champion model 7ECA**  
**150 hp engine conversion**  
**STC SA02979CH**

The Lycoming O-320-A2B (150 hp) engine offers a significant performance improvement over the original Continental O-200 (100 hp) and Lycoming O-235 (108 hp & 115 hp) options.

**Eligible Aircraft**

Any model year Champion/Bellanca/American Champion model 7ECA aircraft

**Overview of STC Requirements**

- Modify battery installation from firewall location to aft baggage compartment area (if not already done so)
- Modify electrical system per ACAC Service Letter 418, Rev. A (if not already done so)
- Modify fuel system by replacing and relocating the gascolator, replace the fuel valve bracket, replace the carburetor fuel line, and components from the gascolator to and including the fuel manifold must also be replaced (Original equipment for 7ECA, 1994 and up)
- Modify existing firewall to accommodate new gascolator, mixture and starter cable locations
- New engine mount (if upgrading from Continental O-200)
- New baffles to accommodate O-320 engine
- New oil cooler (Harrison 8526250, or equivalent)
- Exhaust system & Cowling
  - If upgrading from Cont. O-200, a new dual-muffler exhaust system, cowling, carb air box assembly and air filter must be installed.
  
  - If upgrading from Lyc. O-235 w/ a dual-muffler exhaust system, this same system may be reinstalled, HOWEVER, the front (7-1330) and rear (7-1331) stacks must be converted from -1 to -2. A new carb air box assembly must also be installed. The same cowling may be reinstalled.
  
  - If upgrading from Lyc. O-235 w/ a single-muffler exhaust system, the exhaust system must be converted from 7-1483-2 (DEL099001-049) to the 7-1483-1 (DEL099001-050) system. The same cowling may be reinstalled.
- Propeller – The McCauley 1C172AGM72 or Sensenich 74DM6S8-1 must be installed. Note: The Sensenich is only eligible for use on aircraft equipped w/ narrow lower end section steel spring gear.
- Slight modifications to the elevator and elevator trim tab control surface travel specs.
- Modifications to the tachometer, oil temperature and oil pressure range markings.