

»» **Service Letter**

Technical Aspects are FAA Approved

Number: 93-04 A

Replaces ServL 93-004

Date: 07/13/2004

Subject: Optional Advancement of timing on the Teledyne Continental O-200A, B

Compliance: Any time a complete set of Superior Air Parts, Inc. SA10200 Series Millennium[®] Cylinders is installed on the O-200A or B engine

During the development of the SA10200 Series Millennium[®] Cylinder, Superior Air Parts Inc. incorporated many improvements to increase strength and service life. Requests from the field have prompted us to conduct an additional test for timing advancement. Recently, Superior has received STC SE8675SW approval to advance the magneto timing on both magnetos, from the present position of 24 degrees B.T.C., to the original timing of 28 degrees B.T.C.

NOTE

The timing change from 24 degrees B.T.C. to 28 degrees B.T.C. can only be accomplished on O-200A or B engines containing four Superior Air Parts, Inc. SA10200 Series Millennium[®] Cylinders.

PROCEDURES:

1. Remove all upper spark plugs.
2. Position the No. 1 piston on its compression stroke, aligning the 28-degree B.T.C. crankshaft flange index with the bottom split on the crankcase.
3. Refer to the appropriate service information for the particular magneto in use, to properly connect a timing light. Loosen magneto retaining nuts. Rotate the magneto case until the timing light indicates that the points are just opening. If there is not enough limit allowed by the slotted flange holes, then the magneto must be removed from its pad and the magneto drive gear repositioned with the camshaft gear so that the points are just opening in the number 1 magneto firing position. Refer to the appropriate service information for the particular magneto in use to reposition the magneto.
4. Check for proper alignment of Bendix or Slick timing indicators. Tighten the magneto retaining nuts to hold the magneto in place.
5. Back up the crankshaft 10 degrees. Tap the crankshaft carefully forward until the timing light indicates that the breaker points have just opened. Check that the 28-degree B.T.C. flange index is aligned with the bottom split in the crankcase. If it is not correct, loosen the magneto retaining nuts and repeat steps 2, 3, and 4.
6. Make a logbook entry showing compliance with the STC.

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SE8675SW

This certificate, issued to Superior Air Parts, Inc.
P. O. Box 363
Addison, TX 75001

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 13 of the Civil Air Regulations.

Original Product — Type Certificate Number: E-252
Make: Teledyne
Model: O-200

Description of Type Design Change:

The magneto timing for the Teledyne Continental Motors O-200 engine to be set at 28 degrees before top dead center (BTC). The setting is to be made in accordance with Superior Air Parts, Inc. Service Letter 93-004, dated 08/24/93.

Limitations and Conditions:

The magneto timing may be set at 28 degrees BTC only when Four Superior Air Parts, Inc. SA10200 Series Millinnium O-200 cylinders are installed in the Teledyne Contentinal O-200 engine. Compatibility of this modification with previously installed equipment must be determined by installer.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: July 1, 1993

Date issued:

Date of issuance: August 24, 1993

Date amended:



By direction of the Administrator

Mark R. Schilling
Mark R. Schilling, Manager
Special Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.