

Ignition System Publication Index

CONTINENTAL IGNITION SYSTEMS

MASTER SERVICE MANUAL



Publication X41005 Revision 18

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Supersedure Notice

This manual is a revision of the Publication X41005, published in 15 October 2015. Upon FAA Approval and release of this document, previous versions of X41005 are superseded and should not be used for Continental Motors magneto maintenance or overhaul.

Effective Changes for this Manual

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| 0 1 August 2017 | | | |
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List of Effective Pages

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Introduction

This document contains contact and publication access information for Continental Motors Ignition System service documents. Service documents not included in this index (with release dates issued earlier than this index) are considered obsolete or inactive. Inactive service documents are no longer eligible for publication or release.

This document is comprised of multiple reorganized indices tailored for your specific point of reference:

- Ignition Systems Service Document Index
- Cross Reference Index
- Superseded Documents Index

Publication Access

Ignition System information pertaining to Continental Motors, Inc. (CMI) products is available by subscribing to Continental Motors' Internet Services. Document updates are available via the Continental Motors web site upon notification of FAA document approval. An FBO Service subscription is available with a paid subscription fee. Contact a Continental Motors distributor to discuss service subscription options and pricing or visit our web site (See "Contact Information" on page ii).

Printed Continental Motors, Inc. publications may be ordered through Continental Motors authorized distributors or via the Internet on the Continental Motors web site. Printed publication subscribers receive printed changes and revisions as they are released. See "Contact Information" on page ii.

Publication Changes

Continental Motors releases publication changes in the form of either change pages or complete publication revisions, depending upon the extent of change. Service Documents may supplement or replace technical information contained in one publication or an entire series of publications. Such Service Documents represent a change to the published Instructions for Continued Airworthiness (ICA) until the individual publications incorporate the latest technical information.

Document revisions are released if the update changes more than 50% of the contents of a publication. Revisions replace the previous version of a publication from cover to cover. Minor corrections are released as change pages to the original publication, identified with a change number and effective change date in the page footer. Information on the page that changed from the previous edition is identified by a vertical, six-point black line, referred to as a "change bar" in the outside margin of the page. A change page replaces only the previous edition of the affected page.

Suggestions and Corrections

Continental Motors solicits and encourages user comments regarding suggested changes to this manual. Direct recommended changes or questions to the attention of "Publications" at the address listed in "Contact Information" on page ii. or via email to CM.techpubs@continentalmotors.aero.

Contact Information

Notify Continental Motors Customer Service immediately, using our toll-free number, if you discover incorrect information which adversely affects safety.

Continental Motors is available to answer technical questions and encourages suggestions regarding products, parts, or service. If customers have an inquiry or require technical assistance, they should contact their local Continental Motors distributor or field representative.

To contact Continental Motors directly:

Continental Motors
Customer Service Department
P. O. Box 90
Mobile, AL 36601

Toll-free (within the continental United States) 1-888-826-5465

International 1-251-436-8299

Internet Service <http://www.continentalmotors.aero>

Service Tools

To obtain service tools and service tool operating manuals, contact:

Kell-Strom Tool Company, Inc.
214 Church St.
Wethersfield, CT 06109

Toll-free (within the continental United States) 1-800-851-6851

International 1-860-529-6851

FAX 1-860-257-9694

Internet Address <http://www.kell-strom.com>

Ignition System Publication Index

Publication Index

| Publication Title | Document or Form Number | Available Online | Publication Date |
|--|-------------------------|------------------|------------------|
| Master Service Manual | X40000 | N/A | --- |
| Renewal Subscription for Master Service Manual | X40000SUB | N/A | --- |
| Manual Introduction ¹ (this document) | X41005 | Yes | 07/17 |
| The Aircraft Magneto ¹ | IGN-51 | Yes | 08/11 |
| ABC's of the Shower-of-Sparks ¹ | IGN-52 | Yes | 08/11 |
| Service Support Manuals (include Maintenance/Overhaul Information and Parts Catalogs) | | | |
| S-20 & S-200 Series Magnetos ¹ | X42002 Rev 3 | Yes | 08/11 |
| S-1200 Series Magnetos ¹ | X42001 Rev 2 | Yes | 08/11 |
| D-2000/D-3000 Series Magnetos and Harness ¹ | X42003 Rev 3 | Yes | 04/12 |
| Accessory Service Support Manuals (include Maintenance/Overhaul Information and Parts Catalogs) | | | |
| High Tension Harnesses ¹ | X43001 Rev 1 | Yes | 08/11 |
| Switch and Door Lock Kits ¹ | X43002 Rev 1 | Yes | 08/11 |
| Starting Vibrators ¹ | X43003 Rev 2 | Yes | 08/11 |
| Application Data | | | |
| Magnetos, Gold Seal Harnesses, Ignition System Switches & Starting Vibrators ¹ | X44001 Rev 5 | Yes | 05/17 |
| Active Service Documents | | | |
| Service Document Set ^{1, 2} | X40000SBS | Yes | --- |

1. Contained in the Master Service Manual X40000

2. The Service Document Set includes all active Service Documents as of factory ship date. Updates to printed copies of the Service Document Sets will not automatically be sent after initial purchase of the set.

Service Documents, by Category and Definition

Six categories of Service Documents may be issued by Continental Motors ranging from mandatory (Category 1) to informational (Category 6). Definitions of the categories are listed below:

NOTE: Upon FAA approval, Continental Motors publishes service documents for immediate availability on the Continental Motors web site, <http://www.continentalmotors.aero>. The service document cover page indicates the magnetos affected by the service document. Service documents may alter or replace the manufacturer's Instructions for Continued Airworthiness. Insert a copy of applicable Service Documents in affected manuals until the service document instructions are incorporated in the manual, or the service document is retired or superseded.

Category 1: Mandatory Service Bulletin (MSB)

Used to identify and correct a known or suspected safety hazard which has been incorporated in whole or in part into an Airworthiness Directive (AD) issued by the FAA or have been issued at the direction of the FAA by the manufacturer requiring compliance with an already-issued AD (or an equivalent issued by another country's airworthiness authority). May contain updates to CMI Instructions for Continued Airworthiness to address a safety issue.

Category 2: Critical Service Bulletin (CSB)

This category identifies a condition that threatens continued safe operation of an aircraft, persons or property on the ground unless some specific action (inspection, repair, replacement, etc.) is taken by the owner or operator. Documents in this category are candidates for incorporation into an FAA Airworthiness Directive. May contain updates to Instructions for Continued Airworthiness to address a safety issue.

Category 3: Service Bulletin (SB)

Information which the product manufacturer believes may improve the inherent safety of an aircraft or aircraft component; this category includes the most recent updates to Instructions for Continued Airworthiness.

Category 4: Service Information Directive (SID)

The manufacturer directs the owner/operator/mechanic in the use of a product to enhance safety, maintenance or economy. May contain updates to Instructions for Continued Airworthiness in the form of maintenance procedures or specifications.

Category 5: Service Information Letter (SIL)

This category includes all information (not included in categories 1 through 4) that may be useful to the owner/operator/technician. May contain updates to Instructions for Continued Airworthiness for optional component installations, which are not covered in the Applicable Operator, Maintenance, or Overhaul Manuals.

Category 6: Special Service Instruction (SSI)

This category is used to address an issue limited to specific model and/or serial number engines. We will distribute SSI notification directly to the affected engine's owners. SSIs will not be included in the general service document set but will be made available through our Customer Service Department to owners of the affected engines only. An SSI may update the applicable engine's Instructions for Continued Airworthiness.

Ignition System Service Document Index

The Ignition System Service Document Index lists active service documents and applications pertaining to Continental Motors Ignition Systems.

WARNING

Use only the latest version of the publications listed in the index below. Consult the Continental Motors web site for the latest revision level for the publication.

The Product Application Code letters (A thru H) listed in the Ignition System Service Document Index are defined as:

Product Application Codes

| | | | |
|----------|--------|----------|-----------|
| A | S-20 | E | D-3000 |
| B | S-200 | F | Switches |
| C | S-1200 | G | Vibrators |
| D | D-2000 | H | Harnesses |

NOTE: Information contained in Service Documents which are no longer active has been incorporated into the applicable Product Service Manual.

Ignition System Service Document Index

| Service Document Title ¹ | Service Document Number | Service Document Category Code ² | Date | Product Application |
|---|-------------------------|---|-------|---------------------|
| Shouldered Magneto Drive Shaft Bushing (AD ³ 74-26-09) | 556C | 1 | 07/75 | A, B, & C |
| Ignition Switches, Twist-to-Start, Push-to-Start, Twist-to-Start/ Push-to-Prime Types (AD 76-07-12) | 583 | 1 | 04/76 | F |
| Inspection of D-2000 Series Magneto Capacitor (AD 78-18-04) | 587 | 1 | 02/77 | D |
| Rotating Magnet-to-Housing Clearance (AD 78-18-04) | 590A | 1 | 05/78 | D |
| Rear Bearing in D-2000/2200 Series Magnetos (AD 78-18-04) | 600 | 1 | 05/78 | D |
| Inspection for Possible Housing Distortion (AD 80-17-14) | 605A | 1 | 11/79 | D |
| D-2000/2200 Series Magnetos Using Green Distributor Block (AD 79-12-07) | 606 | 1 | 04/79 | D |
| Repair of Starting Vibrators Utilizing 5 Contact Bushings (AD 81-17-01) | 614 | 1 | 02/81 | G |
| Inspection and/or Replacement of Distributor Gears (AD 82-11-05) | 617B | 1 | 05/84 | D |
| Replacement or Inspection of Distributor Gears in D-3200 Series (blue) Pressurized Magnetos (AD 81-12-06 R1) | 618 | 1 | 06/81 | E |
| Replacement or Inspection of Distributor Gears in D-3000/ 3200 Series (blue) Magnetos (AD 81-12-06 R1) | 619 | 1 | 08/81 | E |
| Inspection of Impulse Coupling Cam Assemblies (AD 82-20-01) | 623A | 1 | 08/84 | A, C, D & E |
| Gold Seal Harness | 635 | 3 | 05/91 | H |

Ignition System Service Document Index

| Service Document Title ¹ | Service Document Number | Service Document Category Code ² | Date | Product Application |
|---|-------------------------|---|----------|---------------------|
| Bendix/TCM Ignition Switch Inspection | 636 | 2 | 08/92 | F |
| Proper Installation of Impulse Couplings (AD 96-12-07) | 639 | 3 | 03/93 | A, C, D & E |
| Possible Open Condition of SC-20, SC-200 and S-1200 Series Magneto Capacitor part number 10-349276 (AD 94-06-09) | CSB641 | 2 | 02/94 | A, B & C |
| Manufacturing Number (Serial No.) Interpretation | SIL642B | 5 | 03/09/05 | All |
| Maintenance Intervals for Continental Motors (formerly TCM/ Bendix) S-20, S-200, and S-1200 Series Magnetos and Related Equipment | SB643C | 3 | WIP 2017 | All |
| Replacement of Magneto Coils and Rotating Magnets (AD 94-01-03 R2) | MSB644 | 1 | 04/94 | A, B & C |
| Inspection of Riveted Impulse Couplings and Stop Pins (AD 2005-12-06) | MSB645 | 1 | 04/94 | A, C, D & E |
| Optional Conversion to "Shower-of-Sparks" Ignition | SIL648 | 5 | 10/94 | All |
| 10-400405 and 10-400406 Distributor Gear Kits and S-1200 Series Magnetos | SIL649 | 5 | 02/95 | C |
| Hot Magneto Test | SB653 | 3 | 05/95 | A, B, C, D, E & F |
| Distributor Gear Maintenance | SB658 | 3 | 08/16/96 | A, B, C, D & E |
| Magneto Impulse Coupling Stop Pin Installation | SB659 | 3 | 11/13/96 | C |
| Possible Malfunction in Certain Push-to-Start Ignition/Starter Switches | SB660 | 3 | 12/5/97 | F |
| BL- Prefix Marking on Rebuilt Magnetos and Rebuilt D-3000 Ignition Systems | SIL661 | 5 | 09/15/99 | A, B, C & E |
| Two-Wire Magneto Tachometer Breaker | SB663A | 3 | 01/14/07 | A |
| Magneto Capacitor Part Number 10-400558 Replacement | CSB664 | 2 | 09/6/02 | A, B & C |
| Magneto Capacitor Part Number 10-400615 Inspection & Replacement | CSB665A | 2 | 08/20/04 | A, B & C |
| Inspection of Ignition Harness Attachment Plate | CSB668 | 2 | 5/18/10 | A, B & H |
| Replacement and Maintenance of the Continental Motors S-20, S-200, and S-1200 Series Magneto Distributor Block | SB670 | 3 | 07/17/17 | A, B & C |

1. For FAA Airworthiness Directive Documents, visit http://www.faa.gov/regulations_policies/airworthiness_directives/
2. Code defined under the "Service Document" heading in this document.
3. AD = Airworthiness Directive; refer to the "Cross Reference Index" in this document

Cross Reference Index

The Cross Reference Index in this section lists Continental Motors Ignition System Service Documents and associated FAA Airworthiness Directives (ADs) and supersedures.

Cross Reference Index

| AD Number | Corresponding Service Document | Superseded by AD Number | Superseded by Service Document |
|-------------|---|-------------------------|--------------------------------|
| 73-07-04 | 560 | 94-01-03 R2 | MSB644 |
| 74-26-09 | 556B | Active | 556C |
| 76-07-12 | 583 | Active | Active |
| 77-17-07 | 590 | 78-18-04 | 590A |
| 78-09-07 R3 | 599B | 96-12-07 | MSB645 |
| 78-18-04 | 584B ¹ , 587 ² , 590A ² , & 600 ² | Active | 1, 2 |
| 79-12-07 | 606 | Active | Active |
| 79-18-06 | 605 | 80-17-14 | 605A |
| 80-17-14 | 605A | Active | Active |
| 81-12-06 R1 | 618 & 619 | Active | Active |
| 81-17-01 | 614 | Active | Active |
| 82-11-05 | 617 | Active | 617B |
| 82-13-01 | 613 | Active | X42001-1 |
| 82-20-01 | 623 | Active | 623A |
| 94-01-03 R2 | MSB644 | Active | Active |
| 94-06-09 | CSB641 | Active | Active |
| 96-12-07 | 639 & MSB645 | 2005-12-06 | Active |
| 2005-12-06 | 639 & MSB645 | Active | Active |

1. Service Document 584B was superseded by Manual X42003-1.
2. Service Documents 587, 590A & 600 are Active.

Superseded Documents Index

The Index below lists superseded Continental Motors Ignition System Service Documents and the supersedure authority.

Superseded Documents Index

| Original Service Document Number | Superseded By | Original Service Document Number | Superseded By |
|----------------------------------|----------------------------------|----------------------------------|------------------|
| 556B | 556C | SB640 | X41005-12 |
| 560 | MSB644 | SB643B | SB643C |
| 560A | MSB644 | SIL646 | X42002-2 |
| 584B | X42003 | SIL647 | X42002-2 |
| 590 | 590A | SB650 | X42002-2 |
| 599B | MSB645 | SB651 | X42003-1 |
| 599C | MSB645 | SB652 | X42003-2 |
| 599D | MSB645 | SB654 | SB654A |
| 617 | 617B | SB654A | X42002-2 |
| 623 | 623A | SIL655 | N/A ¹ |
| 630 | X42001-1 | SB656 | X42003-1 |
| 631 | X42001-1 X42002-1 X42003-1 | SIL657 | SIL657A |
| 632 | SB643B | SIL657A | X42002-2 |
| 632A | SB643B | CSB662 | CSB662A |
| 633 | SIL642B | CSB662A | X42003-1 |
| 634 | X42002-1 | SB663 | SB663A |
| 637 | MSB644 | CSB665 | CSB665A |
| 638 | X42003-1 | SB669 | SB670 |

1. Service Document was written to announce the release of a new service part which has subsequently been superseded.



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