

TELEDYNE CONTINENTAL ® AIRCRAFT ENGINE  
**CRITICAL SERVICE BULLETIN**  
 Compliance Necessary To Maintain Safety

**CATEGORY 2**

**CSB 02-8**  
 TECHNICAL PORTIONS  
 FAA APPROVED

**SUBJECT:** TELEDYNE CONTINENTAL MOTORS IGNITION SYSTEM  
 CRITICAL SERVICE BULLETIN CSB 664.

**PURPOSE:** To Advise Owners, Operators and FBO's of the release of TCM Ignition System Critical Service Bulletin CSB 664.

**COMPLIANCE:** On receipt of this Critical Service Bulletin. Make certain that no one is allowed to move the propeller on an engine suspected of containing an affected capacitor. This could result in an engine start.

**PARTS**

**AFFECTED:** All New (10-) and Rebuilt (BL-) S20, S200 and S1200 Series magnetos of all part numbers manufactured, ordered or received between August 1, 2002 and August 31, 2002 identified within the following serial number sequences:  
 D02HA001 through D02HA999, D02HA001R through D02HA999R  
 E02HA001 through E02HA999, E02HA001R through E02HA999R  
 F02HA001 through F02HA999, F02HA001R through F02HA999R  
 All part number 10-400558 capacitors.

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**WARNING: DO NOT MOVE THE PROPELLER OF ANY ENGINE CONTAINING AN AFFECTED MAGNETO CAPACITOR. THE ENGINE COULD START, REGARDLESS OF IGNITION SWITCH POSITION, CAUSING PERSONAL INJURY OR DEATH.**

Teledyne Continental Motors requires compliance with the attached TCM Ignition System Critical Service Bulletin CSB 664 on receipt.

ISSUED			REVISED			 <b>Teledyne Continental Motors, Inc.</b> P.O. BOX 90 MOBILE ALABAMA 36601 • 251-436-8134	PAGE NO	REVISION
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TELEDYNE CONTINENTAL ® IGNITION SYSTEM  
**CRITICAL SERVICE BULLETIN**  
 Compliance Necessary To Maintain Safety

**CATEGORY 2**

**CSB 664**

TECHNICAL PORTIONS  
 FAA APPROVED

**SUBJECT: MAGNETO CAPACITOR P/N 10-400558 REPLACEMENT.**

**PURPOSE:** TCM has identified a quantity of magneto capacitors part number 10-400558 that could have an open circuit, which would allow a hot magneto condition even when the ignition switch is in the “OFF” position. Critical Service Bulletin provides inspection and disposition instruction for service spare capacitors and magnetos that may contain these capacitors.

**COMPLIANCE:** On receipt of this Critical Service Bulletin. Make certain that no one is allowed to move the propeller on an engine suspected of containing an affected capacitor. This could result in an engine start.

**PARTS**

**AFFECTED:** All New (10-) and Rebuilt (BL-) S20, S200 and S1200 Series magnetos of all part numbers manufactured, ordered or received between August 1, 2002 and August 31, 2002 identified within the following serial number sequences:  
 D02HA001 through D02HA999, D02HA001R through D02HA999R  
 E02HA001 through E02HA999, E02HA001R through E02HA999R  
 F02HA001 through F02HA999, F02HA001R through F02HA999R  
 All part number 10-400558 capacitors.



**WARNING: DO NOT MOVE THE PROPELLER OF ANY ENGINE CONTAINING AN AFFECTED MAGNETO CAPACITOR. THE ENGINE COULD START, REGARDLESS OF IGNITION SWITCH POSITION, CAUSING PERSONAL INJURY OR DEATH.**

**A. INSPECTION**

1. Inspect the serial number stamped on the magneto data plate to determine if it falls within the sequences listed in “PARTS AFFECTED” above. Also, regardless of magneto serial number, determine if P/N 10-400558 capacitor has been installed.
2. If the magneto serial number is affected or capacitor P/N 10-400558 has been installed in any magneto and for all P/N 10-400558 in inventory, inspect the capacitor potting compound/insulator type.
3. If capacitor P/N 10-400558 potting/insulator material is black (reference Figure 1), the capacitor must be returned to TCM in accordance with Section D.
4. Any capacitor with red insulator material (reference Figure 2) does not require replacement in accordance with this Critical Service Bulletin.


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Figure 1  
Affected Capacitor

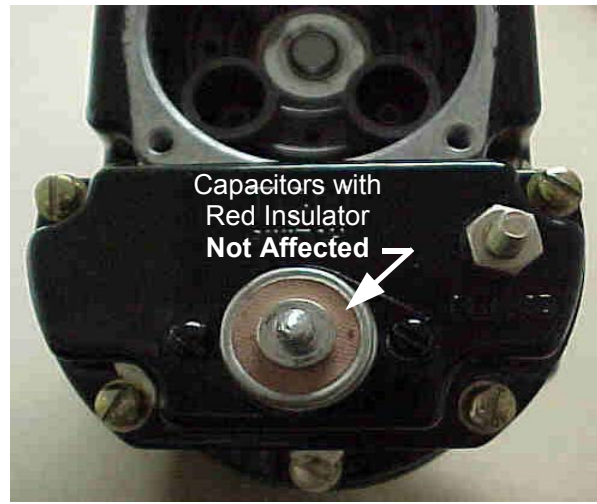


Figure 2  
Serviceable Capacitors

#### B. CAPACITOR REPLACEMENT INSTRUCTIONS – S20 AND S200 SERIES MAGNETOS

1. Remove airframe and engine components necessary to gain access to the magneto capacitor/contact point cover.
2. Remove 4 magneto cover screws. While removing the cover, carefully remove capacitor lead from contact points terminal, noting terminal placement and lead orientation for reassembly.
3. Remove 2 screws securing the capacitor to the cover and remove capacitor. Remove o-ring packing from affected capacitor.
4. Place o-ring on new capacitor (reference Table 1). Secure capacitor to magneto cover with 2 screws. Torque screws to 8 - 12 in lbs.
5. Attach serviceable replacement capacitor terminal to contact points terminal in accordance with instructions in the applicable Service Support Manual.
6. Attach magneto cover using 4 screws. Torque screws to 20- 25 in lbs.
7. As applicable, record the magneto serial number to be supplied to TCM distribution for warranty application.
8. As applicable, make a engine log book entry as to inspection and/or replacement of the part number 10-400558 capacitor in accordance with TCM Critical Service Bulletin CSB02-8.

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**C. CAPACITOR REPLACEMENT INSTRUCTIONS – S1200 SERIES MAGNETOS**

1. Remove airframe and engine components necessary to gain access to the magneto capacitor/contact point cover.
2. Remove 4 sets of hardware securing the ignition harness and remove the harness from the magneto.
3. Remove 1 magneto cover screw from the magneto cover. While removing the cover, carefully remove capacitor lead from contact points terminal, noting terminal placement and lead orientation for reassembly.
4. Remove 2 screws securing the capacitor to the cover and remove capacitor. Remove o-ring packing from affected capacitor.
5. Place o-ring on new capacitor (reference Table 1). Secure capacitor to magneto cover with 2 screws. Torque screws to 8 - 12 in lbs.
6. Attach capacitor terminal to contact points terminal in accordance with instructions in the applicable Service Support Manual.
7. Attach magneto cover using 1 screw. Torque screw to 30- 35 in lbs. Install ignition harness with attaching hardware and torque to 18 - 22 in lbs.
8. As applicable, record the magneto serial number to be supplied to TCM distribution for warranty application.
9. As applicable, make a engine log book entry as to inspection and/or replacement of the part number 10-400558 capacitor in accordance with TCM Critical Service Bulletin CSB02-8.

<b>TABLE 1 - SELECT REPLACEMENT CAPACITOR</b>	
<b>For New (10-) and Rebuilt (BL-) Magneto Part Numbers</b>	<b>Use Capacitor Part Number</b>
10-500556-1, 10-500556-3, 10-500556-101, 10-500556-103, 10-600606-1, 10-600606-3, 10-600656-1, 10-600656-3, 10-600616-3	10-400604
All other magnetos	10-349276

**D. WARRANTY AND PART DISPOSITION**

1. Warranty coverage for inspection and replacement of capacitors is as follows:
  - (a) Due to the simplicity of the capacitor inspection, there will be no labor allowance for inspection of service spare capacitors or magnetos in inventory.
  - (b) Labor allowance for capacitor inspection of one or two affected magnetos installed on an engine – ½ hour total.
  - (c) Labor allowance for capacitor replacement on a magneto installed on an engine – ½ hour per magneto. This includes capacitor inspection – 1.(b).
2. Affected capacitors must be returned to TCM as follows:

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- (a) Affected service spare capacitors in inventory – These will be returned to TCM by TCM distribution. Contact an authorized TCM distributor for return instructions and to order a replacement.
- (b) Affected capacitors removed from magnetos - Contact an authorized TCM distributor for warranty claim application and capacitor return instructions. Make certain that you provide the applicable magneto serial number to ensure proper warranty application.

Contact TCM Technical Services at 888-826-5465 or 251-436-8299 or your regional TCM Service Representative if you have any questions concerning this Critical Service Bulletin.

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