

**CONTINENTAL MOTORS INC<sup>®</sup> AIRCRAFT ENGINE**  
**CRITICAL SERVICE BULLETIN**

**Category 2**

**CSB12-1**

**COMPLIANCE NECESSARY TO MAINTAIN SAFETY**

**Technical Portions FAA  
Approved**

**SUBJECT: P/N 641909 Lock Plate Inspection**

**PURPOSE:** To advise owners, operators and FBO's of inspection requirements to insure proper bending of face gear screw lock tab

**COMPLIANCE:** Within the next 10 hours of engine operation

**MODELS AFFECTED:** Permold series engines with serial numbers listed in table below

**General:**

CMI Inc. is issuing this bulletin to notify owners and/or operators of the inspection for bending of lock tabs on face gear attach screws

**Compliance:**

Within the next 10 hours of engine operation

**CAUTION**

*Compliance with this Bulletin is required to prevent the Possible Loss of Torque of Face Gear Attach Screws and Subsequent Engine Failure*

**Affected Engine Serial Numbers:**

1003684	1004176	1004246	1004357	1004414
1004056	1004210	1004257	1004362	1004422
1004078	1004227	1004265	1004363	1004423
1004080	1004229	1004286	1004364	1004427
1004088	1004230	1004309	1004370	1004432
1004148	1004231	1004328	1004371	1004438
1004174	1004233	1004337	1004372	1004452
1004175	1004240	1004338	1004412	1004563

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## WARNING

**To Prevent The Possibility Of Serious Bodily Injury Or Death,  
Before Performing Any Inspection, Repair Or Moving The  
Propeller Accomplish The Following:**

- 1. Verify Aircraft Master And Magneto Switches Are In The OFF Position**
- 2. Throttle Position CLOSED**
- 3. Mixture Control To IDLE CUT-OFF**
- 4. Set Brakes And Block Aircraft Wheels**
- 5. Insure That Aircraft Tie-Downs Are Installed And Verify That The Cabin Door Latch Is Open**
- 6. Do Not Stand Within Arc Of The Propeller Blades While Turning The Propeller**

**Inspection:**

1. Assure that both magnetos are properly grounded and ignition switch is in the **OFF** position
2. Assure that mixture control is in idle **CUTOFF**
3. Assure that the fuel selector is in the **OFF** position
4. Open or remove cowling to gain access to all upper sparkplugs and left hand crankcase forward of number six cylinder
5. Remove upper spark plugs installed in all cylinders to allow hand rotation of engine
6. Remove lock wire, hex plug p/n 532432, and copper gasket p/n MS35769-11 (discard gasket) as shown in Figure 1.
7. Using suitable bore scope, or inspection light, view alternator face gear attachment screws, 4 each p/n 649205
8. Inspect attach screw lock plates p/n 641909 to ensure tab is bent against head flat of attach screws as shown in Figure 2. Engine will require hand rotation to view tab bending at each attach screw location.

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9. Note gear position to insure lock plates are inspected at all four attach screw locations
10. If all lock plates are bent against screw, re-install hex plug p/n 532432 using new copper gasket p/n MS35769-11, then lock wire plug in accordance with maintenance manual for applicable engine
11. Re-install all sparkplugs, leads and cowling removed to facilitate inspection
12. Perform engine ground run up prior to releasing to service
13. If lock tabs do not indicate proper bending, contact CMI at 888.826.5465 prior to further engine operation
14. Complete compliance form and Fax to 251.436.8270
15. Update aircraft records to reflect compliance with CSB12-1



Figure 1.  
Example of Plug  
P/N 532432

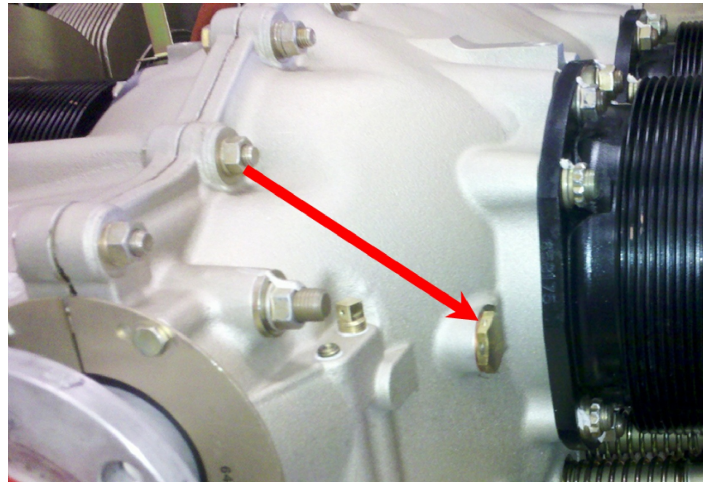


Figure 2.  
Example of  
Bent Tabs



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**Warranty:**

The actions required to comply with this bulletin are covered by the applicable engines warranty policy in effect at the time the engine was purchased. Continental Motors reserves the right to request copies of invoices and maintenance records to verify warranty applicability.

Compliance with the bulletin must be completed no later than June 30, 2012.

NOTE: Visit Continental Motors Inc.'s web-site [www.genuinecontinental.aero](http://www.genuinecontinental.aero) to obtain copies of CMI Warranty Policies.

Affectivity can be determined by reviewing the aircraft/engine records. Complete the required compliance form. **Compliance forms along with a copy of the repair agency's W-9 must be submitted immediately upon completion for reimbursement.** Compliance forms should only be completed for engines with the affected serial numbers.

**Completed compliance form, and W-9 must be mailed or faxed to the following:**


**Continental Motors Inc.  
P.O. Box 90  
Mobile, AL 36601  
Or  
Fax to 251-436-8270**

**Inspection Labor Allowance:**

2.0 man hours at published shop labor rate.

**Parts to be covered under warranty:**

P/N MS35769-11 Gasket

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**COMPLIANCE FORM  
MSB12-1  
Complete one form for each affected engine**

<b>Owner Name:</b>			<b>Phone:</b>			<b>Date:</b>			
<b>Address:</b>									
<b>City:</b>			<b>State/Country:</b>				<b>Zip Code:</b>		
<b>FBO Name:</b>				<b>Phone:</b>				<b>FAX:</b>	
<b>Address:</b>									
<b>City:</b>			<b>State/Country:</b>				<b>Zip Code:</b>		
<b>FBO Posted Labor Rate:</b>			<b>Labor Hours Applied:</b>				<b>Total Cost:</b>		
<b>Send Reimbursement Payment to above address (or complete below)</b>									
<b>Name:</b>				<b>Phone:</b>				<b>FAX:</b>	
<b>Address:</b>									
<b>City:</b>			<b>State/Country:</b>				<b>Zip Code:</b>		
<b>Aircraft Registration #:</b>			<b>Airframe Make/Model:</b>				<b>Airframe S/N:</b>		
<b>Engine Model:</b>			<b>Serial Number:</b>				<b>Position:</b>		
<b>Engine Total Time:</b>			<b>Date Engine Placed in Service:</b>						

Continental Motors, Inc. Fax number is 251-436-8270.

**Signature of Repair Agent:** \_\_\_\_\_

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