

Service Bulletin # 1019-0002

Date: January 29, 2024

Subject: 6-Cylinder MTH Assembly: Part Numbers EA-12000, EA-16000, and EA-25000

Models Affected: Electroair Part # EA-12000, EA-16000, and EA-25000. (See Serial Numbers Affected)

Time of Compliance: Within next 5 hours of operation

Notice: This is information only. Recommendations aren't mandatory. Engineering Aspects are FAA Approved.

Introduction

This Service Bulletin informs owners and operators of aircraft equipped with Electroair 6-cylinder Mag Timing Housings (MTH), Part numbers EA-12000, EA-16000, or EA-25000, approved under Supplemental Type Certificate SA03286CH.

Background

Electroair has received reports of the 6-cylinder Mag Timing Housing (MTH) malfunctioning within the first few hours of operation. The malfunction may cause the gear train within the MTH break apart and stop the trigger wheel. If this happens, the electronic ignition system will not function. The engine timing from the electronic ignition system may slip, and the engine may run rougher than normal. A pilot may notice either a rough running engine or may notice slightly elevated or slightly decrease cylinder head temperatures.

Electroair has established a method to modify the EA-12000, EA-16000, and EA-25000 in order to prevent the gear train from breaking.

Serial Numbers Affected

The serial number is located on the label attached to the side of the MTH.

<u>EA-12000</u>	<u>EA-16000</u>	<u>EA-25000</u>
22-110-(XXX)	22-146-(XXX)	22-093-(XXX)
22-137-(XXX)	22-262-(XXX)	22-207-(XXX)
22-213-(XXX)	22-290-(XXX)	22-408-(XXX)
22-260-(XXX)	22-411-(XXX)	23-011-(XXX)
22-421-(XXX)	23-130-(XXX)	23-025-(XXX)
23-056-(XXX)	23-304-(XXX)	23-078-(XXX)
23-067-(XXX)	23-379-(XXX)	23-113-(XXX)
23-146-(XXX)	23-497-(XXX)	23-162-(XXX)
23-171-(XXX)		23-177-(XXX)
23-174-(XXX)		23-198-(XXX)
23-197-(XXX)		23-227-(XXX)
23-274-(XXX)		23-228-(XXX)
23-278-(XXX)		23-268-(XXX)
23-314-(XXX)		23-289-(XXX)
23-322-(XXX)		23-343-(XXX)
23-332-(XXX)		23-346-(XXX)
23-358-(XXX)		23-355-(XXX)
23-403-(XXX)		23-433-(XXX)
23-453-(XXX)		23-438-(XXX)
23-464-(XXX)		23-448-(XXX)
23-482-(XXX)		23-507-(XXX)

The above serial numbers may have not been modified. If these units have been operating for less than 50 hours, then the unit should be further inspected as follows:

Recommendations for Parts Affected by this Service Bulletin

Electroair recommends that owners and operators of aircraft equipped with the referenced EA-12000, EA-16000, or EA-25000 6-cylinder Mag Timing Housings (MTH) without the modification and have been operating for less than 50 hours, contact Electroair to get assistance with the necessary steps for having the EA-12000, EA-16000, or EA-25000 modified.

Owners and operators of aircraft equipped with the referenced EA-12000, EA-16000, or EA-25000 6-cylinder Mag Timing Housings (MTH) can inspect the MTH to see if the gears are damaged. To check for possible damage, first remove the bottom cover of the MTH unit. The MTH cover has four screws that must be removed to take off the cover plate. Once the cover has been removed, simply visually inspect the gears inside. If you see damage or the possible start of damage, contact Electroair to get assistance with the necessary steps for having the EA-12000, EA-16000, or EA-25000 modified.



Figure 1: EA-12000 and EA-16000 Cover Plate



Figure 2: EA-25000 Cover Plate

If your MTH has been operating with no trouble for over 50 hours, then the MTH does not need to be modified.

Electroair Contact Information

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What Electroair will do: Affected serial number Mag Timing Housing (MTH) unit owners should contact Electroair and schedule the modification. Units that have NOT been modified may be returned to Electroair for modification/alteration to prevent the MTH gears from failing. There will be no charge for this modification.

Note:

Once the modification is done at Electroair, the ID plate will be marked with "Rev 2".

The modified unit will be returned to the owner and may then be reinstalled by a properly certified mechanic, and a logbook entry should be made showing compliance with this service bulletin.