

# SERVICE INSTRUCTION

DATE: April 18, 1997

Service Instruction No. 1481  
Engineering Aspects are  
FAA Approved

SUBJECT: Factory Engine Preservation

MODELS AFFECTED: All Textron Lycoming reciprocating aircraft engines.

TIME OF COMPLIANCE: Not applicable.

New, remanufactured, and overhauled engines purchased from Textron Lycoming are preserved for either 60 or 180 days. The date of preservation is the date printed on the sticker on the outside corner of the engine box with the gross weight; or it may be written on the top of the box following a "Preservation Date" stamp. This preservation is intended to protect the engine from corrosion for the specified time interval. It is **not** intended to protect the engine indefinitely. **Corrosion is warrantable only during the specified preservation period.** If at the end of the specified preservation period the owner elects to keep an engine in storage, the following steps are recommended, but do not extend corrosion warranty.

**For 60 day preservation:**

1. After the first 60 days, and every 60 days thereafter, boroscope the cylinders (do not rotate the engine) and remove the rocker box covers and visually inspect for any evidence of corrosion.
2. If there is no evidence of corrosion, every 60 days thereafter, remove the accessories and visually inspect the drives and shafts to ensure no moisture or corrosion is evident.
3. At the first sign of corrosion contact a Textron Lycoming distributor or the Textron Lycoming Service Department for further instruction and evaluation.

**For 180 day preservation:**

1. Inspect the moisture indicator for signs of moisture. Moisture indicators are only supplied with the long term, 180 day foam pack. In order to complete this inspection, it will be necessary to remove some of the engine packaging. Instructions for the removal of the top foam pillow are located on a sticker on the outside of the engine box. It is not necessary to remove the engine from the box. **Do not disturb the clear plastic bag in which the engine is sealed.** The indicator is resting on top of the cylinders on one side of the engine and is visible through the bag.
2. Inspect the clear plastic engine container to be sure there are no visible signs of damage. Damage to the container could cause the preservation to be lost.
3. At the end of 180 days, if the moisture indicator shows no signs of moisture, the preservation may be extended 60 days. As long as no moisture is indicated, the preservation can be extended in 60 day intervals for up to one year from the preservation date on the engine box. After a period of one (1) year, the engine must either be placed in service immediately or returned to Textron Lycoming for reconditioning. To return an engine for reconditioning, contact a Textron Lycoming distributor for the return authorization and the estimated cost, excluding any replacement parts which may be required.



4. If during any inspection, the bag is found to be torn or the indicators have turned from blue to pink indicating moisture is present, the engine must be inspected as specified in the above 60 day preservation steps 1 and 2. If corrosion is present, contact a Textron Lycoming distributor or the Textron Lycoming Service Department for further instruction and evaluation.

**NOTE**

**Regardless of the preservation period for the engine (60 or 180 days), after a period of one (1) year, the engine must be either placed in service immediately or returned to Textron Lycoming for reconditioning. To return an engine for reconditioning, contact a Textron Lycoming distributor for the return authorization and the estimated cost, excluding any replacement parts which may be required.**