AIRCRAFT

SUBJECT: D-2000/D-2200 series magnetos using green distributor blocks

REASON FOR BULLETIN:
Part 1. To alert users of a possible problems and provide an inspection procedure for detection.
Part 2. To provide instructions for distributor block replacement required.

EQUIPMENT AFFECTED:
D-2000/D-2200 Series, 6 and 8 cylinder magnetos identified as follows:

<table>
<thead>
<tr>
<th>Magneto Type</th>
<th>Magneto Part Number</th>
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</thead>
<tbody>
<tr>
<td>D6LN-2031</td>
<td>10-382560-53</td>
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Maintenance (Spare) Parts Affected:
Green Distributor Blocks
10-382976 (6 cyl.)
10-382978 (8 cyl.)

Compliance:
Part 1.
Magnetos must be inspected within the next 10 hours of operating time and every 25 hours thereafter until magneto overhaul. Green distributor block must be replaced with black block at time of magneto overhaul if not previously done.

Part 2.
If bushing is loose in green distributor block it must be replaced immediately with a black block or a serviceable green block.

General Information:
Field reports indicate that occasionally the bronze oilite bearings may become loose in green distributor blocks. If this condition occurs the bearings may turn and wear the block bore enough to cause the distributor gear to become mistimed and possibly result in complete ignition failure.

Detailed Instructions:
Part 1.
Inspect affected D-2000/D-2200 magnetos to determine if the distributor gear bearing is loose in green distributor block as follows:

NOTE
Inspection of the magneto may be performed while it is on the engine, if accessibility permits, otherwise the magneto should be removed from the engine for the required inspection procedure.

1. Remove ventilator plugs, threaded bushing, and solid plug from both ends of magneto housing.
2. Remove Gear Axle Retaining Ring P/N 10-92815-37, Plain Washer P/N 10-50753, and Felt Washers P/N 10-50752 from both distributor gear axle positions.
3. Fabricate a 1/4 inch round probe of non-metallic material, preferably wood dowel rod, approximately six inches long, formed at the using end approximately 1/8 inch wide, 1/8 inch thick by 1 inch long to resemble a screwdriver blade.
4. Insert the formed end of the fabricated tool thru the inspection hole at one end of the magneto housing and between two teeth of the distributor gear. Gently, with moderate force, so as not to damage the gear teeth, attempt to push the gear back and forth sideways while observing the corresponding bronze bearing in the distributor block. If there is no movement detected between the bearing and the block, next insert the fabricated tool under the flat surface of the gear on its outside diameter. Exert moderate pressure on the end of the tool to lift the gear toward the distributor block. Look for movement between the bearing and the block.

5. If no bearing movement is detected by either of these two checks, repeat these procedures at the gear/bearing location at the opposite end of the magneto.

6. If no looseness is detected re-assemble the magneto per instructions listed in Bendix Publications L-928-1 and L-945 Installation Operation and Maintenance Instructions and Overhaul Instructions respectively.

7. Make Engine Log Book entry to denote first inspection of green distributor block and make additional entry at each similar 25 hours inspection thereafter.

8. If a loose distributor gear is detected proceed to part 2 of this Bulletin.

Part 2.

If a loose bearing is discovered at either end of the distributor block during compliance with part 1 of this Bulletin proceed as follows:

1. Remove magneto from engine, if not already accomplished.

2. Remove cam securing screw, breakers, cams, axle retaining ring, plain washer, felt washer, distributor block retaining screws and green distributor block.

3. Replace green block, using new black block assembly P/N 10-382998 for 8 cylinder magnetos and P/N 10-382972 for 6 cylinder magnetos.

NOTE

If black distributor block is not available, a serviceable green block can be installed. Part 1 of this Bulletin must then be complied with at 25 hour intervals until a black block becomes available.


5. Complete re-assembly of magneto in accordance with applicable instructions in D-2000/D-2200 Series Magneto Overhaul publication, Bendix Form L-945 and install magneto on engine as described in Bendix publication Form L-928 Installation, Operation and Maintenance Instructions.

6. Alter magneto name plate to indicate changes in the magnetos and ignition systems as listed in table below.

7. Make appropriate Engine Log Book entry.

8. Rejected green blocks will be exchanged for black blocks through your Authorized Bendix Distributor. A labor rate allowance of 2 1/2 hours will be permitted for compliance with Part 2 of this Bulletin.

<table>
<thead>
<tr>
<th>Change System P/N From (Green Block)</th>
<th>To (Black Block)</th>
<th>Change Magneto P/N From (Green Block)</th>
<th>To (Black Block)</th>
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<td>10-382620-11</td>
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</tbody>
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Parts Required:
Part 1. None
Part 2. Black Distributor Blocks
One 10-382972 (6 Cyl.)
OR
One 10-382998 (8 cyl.)

Special Tools Required:
None

Man Hours Required:
Part 1. A. Approximately one hour is required if inspection can be performed without removing the magneto from the engine. No warranty labor will be allowed for this type of inspection.

B. Approximately two hours are required if it is necessary to remove the magneto from the engine to perform inspection. Two hours warranty labor will be allowed for this type of inspection. The labor allowance will be permitted for the first inspection only.

Part 2. Approximately two and one half hours are required to remove the magneto, replace the distributor block and reinstall the magneto on the engine. Two and one half hours maximum warranty labor will be allowed for this procedure.

Weight Change:
None