



SERVICE BULLETIN

No. M 462-RF/36a

IT IS NECESSARY TO CARRY OUT !

SUBJECT: Replacement of retaining ring, Part No. 14-08-24, or of alternative design, Part No. 14-608-142 on M 462-RF engines by new retaining ring, Part No. 14-608-142.

REASON: In view of several cases of damage (breakage) of the kinds of retaining rings referred to which serve to lock the circular nut with recesses, Part No. 14-308-03 (modified as per Dwg. No. M 462-RF-0631 by height of $5 \begin{smallmatrix} + 0,1 \\ - 0 \end{smallmatrix}$ mm) securing the driving bevel gear wheel to the speed controller these retaining rings must be replaced.

MEASURES: The retaining ring must be replaced at the time of the next withdrawal from operation of the engine (aircraft) or on engines newly fitted into an airframe.

1. Applies in particular at the time of:
 - 1.1 The next 100 hour inspection and maintenance of the airframe and engine (with certain users it is permissible to carry it out during their so-called A service inspection)
 - 1.2 Non-routine maintenance or repair work
 - 1.3 A check of the condition of engines in an operating time range of 450 to 500 hours, i.e. when the bulletins corresponding to an extension of their operating period are being applied

Outline of procedure for change of above mentioned retaining ring:

2. Dismantling
 - 2.1 Removal of aircraft propeller V 520 from engine M 462-RF

- 2.2 Removal of propeller speed controller LUN 7811.01 with reducer of engine together with removal of drive clutch of speed controller, Part No. 14-08-23 in order to enable reducer to be removed from engine (complete)
- 2.3 Removal of complete reducer M 462-RF-43 from engine, i.e. including removal of outside (planet) gear of reducer (complete)
3. Actual replacement of retaining ring, Part No. 14-08-24 or alternative design, Part No. 14-608-142



Part No. 14-08-24



Part No. 14-608-142

- 3.1 Having unlocked retaining ring unscrew and remove circular nut with recesses, Part.No 14-308-03 (M 462-RF-0631) and fitted retaining ring as per above mentioned drawing number
- 3.2 Before fitting new retaining ring Part No. 14-608-142 make
- 3.2.1 Check of condition of new retaining ring to be fitted on which burrs, sharp edges or cracks in corners are not permitted; at the same time seating surface under nut must be dressed (polished)
- 3.2.2 Check of condition of nut, Part No. 14-308-03 (M 462-RF-0631) on which no sharp edges (burrs) are permitted on recesses of nut over which tabs are to be bent; seating face of nut must

be free from traces of rubbing and pressing after previous tightening. Dress (polish) face of nut when necessary

- 3.2.3 After thorough check of above details coat face of nut lightly with oil, fit new retaining ring, Part No. 14-608-142, tighten nut, Part No. 14-308-03 (M 462-RF-0631) by using spanner 3-M 462-RF-0554/17 and lock nut carefully

4. Assembly

- 4.1 Assembling procedure of assemblies concerned i.e. reducer - propeller speed controller - aircraft propeller, to be carried out in reverse order described under "dismantling"

Caution:

Having tightened nut of ball bearing, Part No. 14-703-11, which secures outside (planet) gear of reducer, lock it carefully by means of cotter pin, Part No. 00-711-09 (2,5 x 40 mm, ČSN 02 1781.05). In particular drive head of cotter pin fully home to prevent it from touching tapered part of end of propeller shaft after fitting of reducer

After fitting all above assemblies secure all joints properly

5. On completion of all fitting work carry out engine test
6. The replacement of the retaining ring according to this bulletin must be entered in the engine log book
7. This bulletin is not applicable to engines repaired at LO Malešice after July 1, 1982

ACTION: By user or by technical service section of manufacturers (repairers) on basis of appropriate order

MATERIAL: To comply with this bulletin the following material is necessary:

For V 520 (or LUN 7811.01):

Sealing ring	1 pc	Part No. LN 6041
Seal under controller	1 pc	Part No. P 7811-0008
Cotter pin	4 pcs	2x20 mm, ČSN 02 1781.02

For engine M 462-RF:

Retaining ring	1 pc	Part No 14-608-142
Seal	1 pc	Part No. M 462-RF-0355
Sealing washer	1 pc	Part No. M 462-0029
Cotter pin	1 pc	Part No. 00-711-09 or 2,5 x 40 ČSN 02 1781.05

The necessary material will be secured by the user by an order placed with the manufacturers or repairers.

COSTS TO BE BORNE: By the user.

EFFECTIVENESS OF BULLETIN: After issue.

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