

Model 190 & 195 Elevator Hinge Hardware Maintenance

Print Listing

ATA: 27-30

Models: 190 and 195

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Textron Aviation has received calls regarding elevator hinge bolts which have been rotating in the hinge bracket causing the bolts to wear. To keep the nuts from backing off torque some operators have installed castellated nuts and cotter keys. The rotating nuts with cotter keys have caused damage to the hinge bracket on some airplanes.

Note: Castellated nuts with cotter keys are not approved hardware for the elevator hinge for Model 190 & 195 airplanes.

The Cessna 190-195 Illustrated Parts Manual shows a type-design self-locking nut installed at this location. When properly installed and lubricated, the elevator hinge bolts do not rotate. If the incorrect hardware is used, or the bolt is not lubricated properly the bolt may bind in the hinge bearing and start to rotate.

The lubrication schedule in the Service Manual for the Model 100 (1953 – 1962) Series Maintenance Manual recommends lubricating the hinge points with MIL-L-7870 General Purpose Oil every 1000 hours or earlier if required.

For the 1943 thru 1953 Cessna 190/195 airplanes, the Owner's Manual is the approved maintenance reference. A change request has been submitted to technical publications to revise the Cessna 190-195 Owner's Manual to add a lubrication task interval for the elevator hinge bolt areas. The new interval will required the lubrication task to be completed every 1000 hours or earlier if dry bearings are noted on inspection, using MIL-L-7870 General Purpose Oil.

Questions, please contact:

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