



HUGHES
SERVICE INFORMATION
LETTER

TO—All owners and operators of Hughes Helicopters

SUBJECT: INTERIM REVISION - HANDBOOK OF MAINTENANCE
INSTRUCTION (HMI) RE: SUDDEN STOPPAGE INSPECTION,
LATERAL CONTROL BELLCRANK, P/N 269A7506

MODELS AFFECTED: All 269 Series Helicopters

Reference

269A/A-1/TH-55A Handbook of Maintenance Instruction, Reissued 15 December 1967
269B Handbook of Maintenance Instruction, Reissued 1 April 1968

The information given in this Service Information Letter lists additional procedures for inspection of the lateral control bellcrank (P/N269A7506), following sudden stoppage of the belt drive transmission and/or any blade strike incident. The data supplements or supersedes applicable inspection procedures given in the current HMI, and is to be considered a part of the HMI until formal incorporation is accomplished at the next revision cycle.

269A/A-1/TH-55A HANDBOOK OF MAINTENANCE INSTRUCTION

Page 1-20, Table 1-4. Special Inspections

DELETE: Existing step f.

And replace with new step f. as follows:

f. Inspect main rotor blades, pitch bearing shafts, tail rotor drive shaft, and related specified items of main rotor, tail rotor, control mixer, exterior and landing gear groups after sudden stoppage of drive system.	4-5, 4-11, 4-38, 5-37 and 6-34
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ADD: New step s., as follows:

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s. Visually and dye penetrant inspect lateral pitch mixer idler bellcrank assembly (P/N 269A7506) for damage, deformation or cracks, after 900 hours of operation and every 50 hours of operation thereafter. 6-34

Page 4-4, Para. 4-5. INSPECTION - SUDDEN STOPPAGE DRIVE SYSTEM, step b.

ADD: New substep (3) to existing step b, as follows:

(3) Remove lateral control bellcrank (P/N 269A7506); visually inspect bellcrank for deformation or damage, using good light source and 6X minimum magnifying glass; dye penetrant inspect for cracks, paying particular attention to the inboard side of the bellcrank and the corner radii at the intersections of the bellcrank arms. (Refer to Figure 4-1A)

NOTE

Removal of paint from bellcrank not required for dye check;
no rigging adjustment necessary upon reinstallation of bellcrank.

Page 6-21, Para. 6-34, INSPECTION - CONTROL MIXER

Following existing step c.

ADD: New step d, as follows:

d. Remove and inspect (P/N 269A7506) bellcrank (22) for damage or deformation using good light source and 6X minimum magnifying glass; dye penetrant inspect for cracks, paying particular attention to the inboard side of the bellcrank and the corner radii at the intersections of the bellcrank arms. (Refer to Figure 4-1A)

NOTE

Step d, is to be performed:

- (1) After any blade strike incident or following sudden stoppage of drive system (See Para. 4-5, step b (3))
- (2) After 900 hours of operation, and every 50 hours of operation thereafter, if bellcrank (P/N 269A7506) is retained in service beyond 900 hours.

269B HANDBOOK OF MAINTENANCE INSTRUCTION

Page 1-17 Table 1-4. Special Inspections.

DELETE: Existing step f.

And replace with new step f, as follows:

f. Inspect main rotor blades, pitch bearing shafts, tail rotor drive shaft, 4-5, 4-11,
and related specified items of main rotor, tail rotor, control mixer, 4-38, 5-38
exterior and landing gear groups after sudden stoppage of drive system. and 6-33

ADD: New step q. as follows:

q. Visually and dye penetrant inspect lateral pitch mixer idler bellcrank 6-33
assembly (P/N 269A7506) for damage, deformation or cracks, after 900
hours of operation and every 50 hours of operation thereafter.

Page 4-4, Para 4-5, INSPECTION - SUDDEN STOPPAGE DRIVE SYSTEM, Step b.

ADD: New substep (3) to existing step b as follows:

(3) Remove lateral control bellcrank (P/N 269A7506); visually inspect bell-
crank for deformation or damage, using good light source and 6X minimum
magnifying glass; dye penetrant inspect for cracks, paying particular attention
to the inboard side of the bellcrank and the corner radii at the intersections of
the bellcrank arms. (Refer to Figure 4-1A)

NOTE

Removal of paint from bellcrank not required for dye check;
no rigging adjustment necessary upon reinstallation of bellcrank.

Page 6-12, Para. 6-33, INSPECTION - CONTROL MIXER

Following existing step c.

ADD: New step d. as follows:

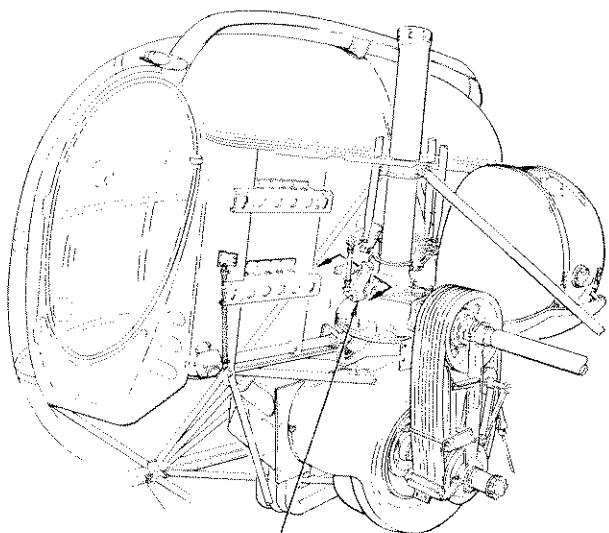
d. Remove and inspect (P/N 269A7506) bellcrank (22) for damage or deformation
using good light source and 6X minimum magnifying glass; dye penetrant inspect for
cracks, paying particular attention to the inboard side of the bellcrank and the corner
radii at the intersections of the bellcrank arms. (Refer to Figure 4-1A)

NOTE

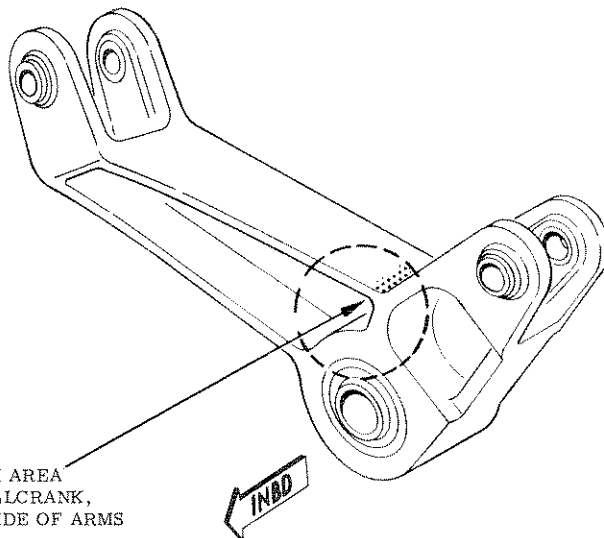
Step d. is to be performed:

- (1) After any blade strike incident or following sudden stoppage of
drive system (See Para. 4-5, step b (3)).
- (2) After 900 hours of operation, and every 50 hours of operation
thereafter, if bellcrank (P/N 269A7506) is retained in service beyond 900 hours.

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269A7506 BELLCRANK ASSEMBLY



APEX AREA
OF BELLCRANK,
INBOARD SIDE OF ARMS

FIGURE 4-1A. INSPECTION - 269A7506 LATERAL PITCH MIXER IDLER BELLCRANK ASSEMBLY