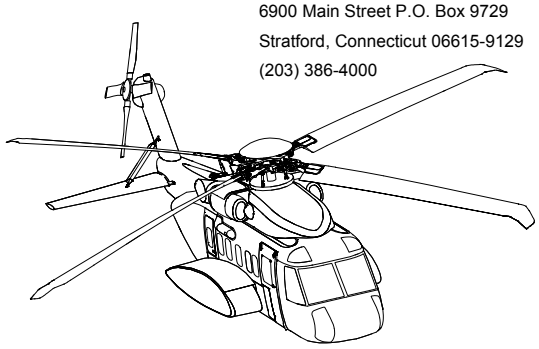
Sikorsky
A United Technologies Company

Sikorsky Aircraft Corporation
6900 Main Street P.O. Box 9729
Stratford, Connecticut 06615-9129
(203) 386-4000



S-92 ALERT SERVICE BULLETIN

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ASB 92-63-032

Basic Issue ▪ December 22/11

SUBJECT: ROTOR DRIVES – Main Gear Box – Main Module Assembly – Perform a One-Time Enhanced Visual Inspection for Leakage and Implement a Recurring Visual Inspection for Leakage

Section 1. PLANNING INFORMATION

A. Effectivity — All S-92A model helicopters with serial numbers 920006 through 920155.

B. Purpose — To perform a one-time enhanced visual inspection of the Main Gear Box (MGB) for leakage, and to provide instructions to implement a recurring visual inspection of the MGB.

C. Description — The MGB housing in the cored passage area adjacent to the scissor bracket mount is visually inspected for indications of oil leakage. If indications of oil leakage are found, the area is cleaned, a ground run is performed and the area is reinspected to confirm the leakage. If leakage is confirmed, Sikorsky Aircraft Corporation is contacted for further direction. If no indications of housing leakage are found, the helicopter is returned to service.

A recurring visual inspection of the same area is implemented in accordance with the Temporary Revisions listed in Section M., Publications affected.

D. Compliance — Compliance is essential. The one-time enhanced visual inspection outlined herein shall be accomplished within 10 flight hours or 15 days from the issue date of this Alert Service Bulletin (ASB), whichever occurs first.

The implementation of the recurring visual inspection shall be accomplished subsequent to the one-time enhanced visual inspection.

E. Approval — Inspection item.

Section 1. PLANNING INFORMATION (Continued)

F. Manpower (Estimated)

Task	No. of Men	No. of Hours	Man-Hours*
Perform one-time enhanced visual inspection	1	1.0	1.0
Total Man-Hours			1.0

*Estimate does not include time required to prepare helicopter or return it to flight status.

G. Material

None.

H. Tooling

(1) 10X Magnifying glass (commercially available, or equivalent).

(2) Ultraviolet (black) light (Magnaflux ZB-100F, or equivalent).

I. Weight and Balance

Not affected.

J. Electrical Load Data

Not affected.

K. Software Load Data

Not changed.

L. References

None.

M. Publications Affected

(1) Airworthiness Limitations and Inspection Requirements Manual SA-S92A-AWL-000, Chapter/Section 5-20-00.

(2) Maintenance Manual SA S92A-AMM-000, Chapter/Section 63-20-01.

(3) Temporary Revision No. 5-104, against Airworthiness Limitations and Inspection Requirements Manual SA-S92A-AWL-000, Chapter/Section 5-20-00, First Flight of the Day Checklist, is issued concurrently with this ASB.

(4) Temporary Revision No. 63-50, against Maintenance Manual SA-S92A-AMM-000, Chapter/Section 63-20-01, Main Transmission Inspection/Serviceability Checks, is issued concurrently with this ASB.

Section 1. PLANNING INFORMATION (Continued)

N. Attachment

None.

Section 2. MATERIAL INFORMATION

A. Basis for Material Data

Per helicopter.

B. Bill of Material

None.

C. Consumable Material

WARNING

OBSERVE ALL CAUTIONS AND WARNINGS ON CONTAINERS WHEN USING CONSUMABLES. WHEN APPLICABLE, WEAR NECESSARY PROTECTIVE GEAR DURING HANDLING AND USE. IF A CONSUMABLE IS FLAMMABLE OR EXPLOSIVE, MAKE CERTAIN CONSUMABLE AND ITS VAPORS ARE KEPT AWAY FROM HEAT, SPARK AND FLAME. MAKE CERTAIN FIREFIGHTING EQUIPMENT IS READILY AVAILABLE PRIOR TO USE. FOR ADDITIONAL INFORMATION ON TOXICITY, FLASHPOINT AND FLAMMABILITY OF CHEMICALS, CONSULT YOUR MEDICAL PEOPLE OR THE MANUFACTURER OF THE CONSUMABLE.

Qty	Nomenclature	Part No.	Source
As Req'd	Low-Lint Cloth	A-A-59323, Type II or equivalent	(1)
As Req'd	Degreasing Solvent	MIL-PRF-680 or equivalent	(1)

(1) Available through local supply channels.

Section 3. ACCOMPLISHMENT INSTRUCTIONS

A. Prepare helicopter for inspection:

(1) Turn off all helicopter electrical and hydraulic power.

(2) Engage rotor brake.

B. Perform one-time enhanced visual inspection as follows:

(1) Using 10X magnifying glass (commercially available, or equivalent), visually inspect main gear box in location shown in Figure 1 for indication of oil leakage.

(2) If any indications of oil leakage are found, proceed as follows:

Section 3. ACCOMPLISHMENT INSTRUCTIONS (Continued)

(a) Using clean, low-lint cloth (A-A-59323, Type II, or equivalent) moistened with degreasing solvent (MIL-PRF-680, or equivalent), wipe area clean.

(b) Perform ground run to confirm source of leakage.

NOTE: • Inspection is to be performed with an ultraviolet (black) light (Magnaflux ZB-100F, or equivalent) that has a minimum intensity of 1000 microwatts per square centimeter, measured 15 inches (38.1 cm) from the front of the bulb or filter, and has a wavelength within the range of 320 to 400 nanometers.

• Oil leakage indications are enhanced when the amount of ambient white light is lowered. To improve the visibility of oil leaks on the housing, it is recommended to perform the ultraviolet (“black” light) inspection with the minimal amount of ambient white light.

(c) Repeat visual inspection with 10X magnifying glass (commercially available, or equivalent) and ultraviolet (black) light (Magnaflux ZB-100F, or equivalent).

WARNING

MAIN GEAR BOX IS NOT TO BE USED FOR FURTHER FLIGHT UNTIL DIRECTION IS PROVIDED BY SIKORSKY AIRCRAFT CORPORATION.

1. If housing leakage is confirmed, photo document the findings and send information to Sikorsky Aircraft Corporation. Main gear box is not to be used for further flight until direction is provided by Sikorsky. Contact Sikorsky at 1-800-WINGED-S or (203) 416-4299 for further direction.

2. If housing leakage is not confirmed, proceed to step (4).

(3) If no indications of oil leakage are found, proceed to step (4).

(4) Return helicopter to service.

C. Implement recurring enhanced visual inspection as follows:

(1) Review and comply with Temporary Revisions listed in Section M, Publication Affected, of this ASB.

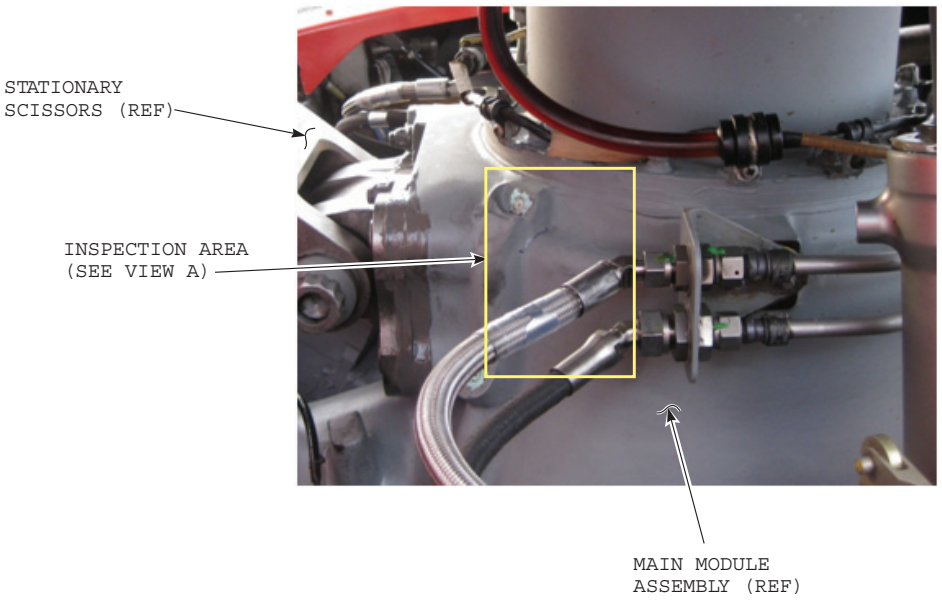
Section 3. ACCOMPLISHMENT INSTRUCTIONS (Continued)

D. Record of compliance:

(1) Make an appropriate helicopter logbook or component log card entry to show compliance with this ASB.

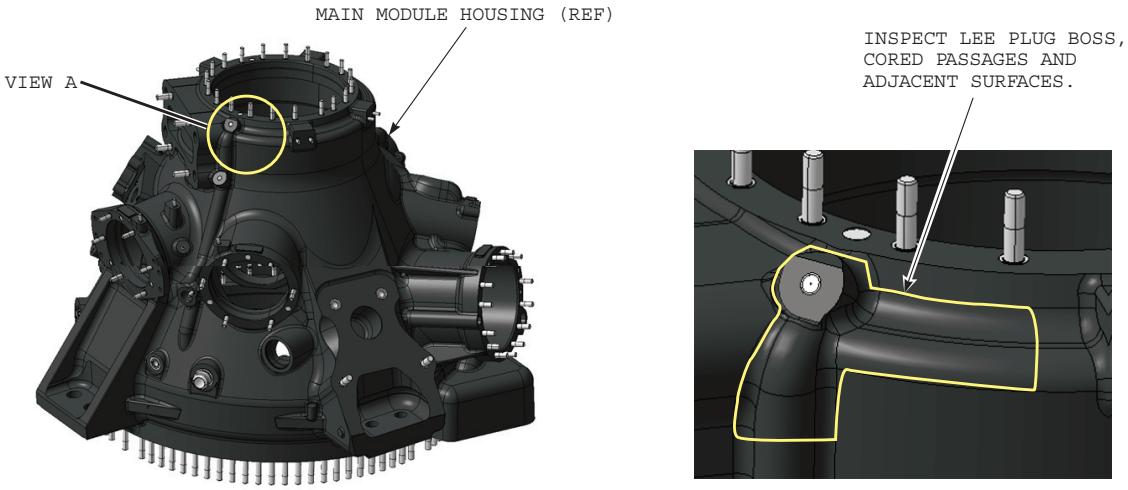
NOTE: If access to www.Sikorsky360.com is unavailable, complete attached ALERT SERVICE BULLETIN COMPLIANCE RECORD CARD and return it to Sikorsky Aircraft Corporation.

(2) Make an appropriate electronic compliance entry in the E-Notification section at www.Sikorsky360.com. Refer to User Guide located on the www.Sikorsky360.com/E-Notification Search page.



TD2660_1
SA

MAIN GEAR BOX INSPECTION AREA



TD2660_2
SA

MAIN GEAR BOX INSPECTION AREA
FIGURE 1

(Fold over and tape closed)

SIKORSKY AIRCRAFT CORPORATION

FACSIMILE NUMBER (860) 998-7565

EMAIL ADDRESS: GPSIKSASProductSafet@utc.com

ATTENTION: SAS PRODUCT SAFETY MANAGER
SIKORSKY AEROSPACE SERVICES

IMPORTANT NOTICE

Upon COMPLIANCE with the attached ASB, Sikorsky requests your cooperation in completing and returning this ENTIRE PAGE by MAIL, FAX, or scan & EMAIL.

If you have internet access, you may go to www.sikorsky.com to record your compliance.

Please fill in the requested information at the bottom of the page, so we may maintain proper records documenting the configuration of your aircraft. This information is useful when determining configuration and effectivity of issues affecting fielded aircraft.

This request is in keeping with our policy to assure that our customers receive the latest information applicable for the maintenance of your aircraft. Thank you.

ALERT SERVICE BULLETIN: ASB No. 92-63-032 **Compliance Record Card**

TITLE: ROTOR DRIVES – Main Gear Box – Main Module Assembly – Perform a One-Time Enhanced Visual Inspection for Leakage and Implement a Recurring Visual Inspection for Leakage

OWNER/OPERATOR: _____

SUBMITTED BY: _____ **DATE:** _____

☐ **FOLLOWING SERIAL NUMBERS ARE NOT AFFECTED BY THIS ASB**

☐ **ASB HAS BEEN COMPLIED WITH ON THE FOLLOWING SERIAL NUMBERS**

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(Fold Up to Arrows)

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