



SERVICE BULLETIN

DATE: 7 APRIL 2000
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LANDING GEAR STRUT INSPECTION AND FAIRING MODIFICATION

1. PLANNING INFORMATION

A. Aircraft Affected:

All Model 369A (OH-6A) Helicopters,
All Model 369H Series Helicopters,
All Model 369D Helicopters,
Model 369E Helicopters, serial number 0001 thru 0528,
Model 369F/FF Helicopters, serial number 0001 thru 0114, 0600 thru 0602, 0700 thru 0702
Model 500N Helicopters, serial number 001 thru LN-077.

B. Assembly/Components Affected By This Notice:

Mid Aft Fairing Assembly (P/N 369H6200-61, -62, standard gear)
Aft Support Assembly (P/N 369H6200-23, -24) (-23 to be reinstalled on RH side and -24 to be reinstalled on LH side, all configurations)
Aft Fairing Assembly (P/N 369H92113-91, -92, extended gear)
Aft Filler Assembly (P/N 369H92113-131, -132, extended gear)
Aft Fillet Assembly (P/N 369A6200-45, -46, standard gear)
Aft Fillet Assembly (P/N 369H92113-111, -112, extended gear)

Mid Fwd Fairing Assembly (P/N 369H6200-41, -42, standard gear)
Fwd Fairing Assembly (P/N 369H92113-81, -82, extended gear)
Fwd Support Assembly (P/N 369H6200-23, -24) (-23 becomes RH side and -24 becomes LH side)
Fwd Filler Assembly (P/N 369H92113-121, -122, extended gear)
Fwd Fillet Assembly (P/N 369A6200-57, -58, standard gear)
Fwd Fillet Assembly (P/N 369H92113-101, -102, extended gear)

C. Reason:

To inspect and clean up rivet hole and provide a convenient means for future inspection. Failure to comply with the requirements of this Bulletin may allow landing gear struts to break which could cause extensive damage to the helicopter.

D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to exchanging the left and right-hand landing gear fairing support assemblies (leaving the inboard fairing support rivet holes open), inspecting each rivet hole for cracks, and modifying each fairing to allow for future inspection of the rivet holes without removing the fairings.

E. Time of Compliance

The requirements of this Bulletin shall be accomplished as parts become available or no later than 31 July 2000.

F. FAA Approval:

The technical design aspects of this Bulletin are FAA Approved.

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G. Manpower:

12.0 Man-hours.

H. Interchangeability:

None

I. Material/Part Availability:

Contact MDHI Parts Sales Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Rivet	NAS1398B4-1	A/R	MDHI or Commercial
Rivet	MS20470A3-3	A/R	MDHI or Commercial
Rivet	NAS1739B4-1	A/R	MDHI or Commercial
Rivet	NAS1919B04-04 or NAS1919B04S04	A/R	MDHI or Commercial
Washer	AN960KD10L or NAS1149D0332K	A/R	MDHI or Commercial
Nut	MS21042-3	A/R	MDHI or Commercial
Screw	MS24693S272	A/R	MDHI or Commercial
Screw	NAS603-8	A/R	MDHI or Commercial
Screw	NAS603-7	A/R	MDHI or Commercial
Screw	NAS603-6	A/R	MDHI or Commercial
Nut-Clips	A1133-4-3	A/R	MDHI or Commercial
Plug, Button	HS4248-C56	4	Commercial
Chemical Coating	Iridite 14-2 Al-Coat Alodine 1201	A/R	Richardson Co. Allied-Kelite Products Division 2400 E. Devon Ave Des Plains, IL
Adhesive	Scotch-Weld EC1838 (Part A & B) (RM002214)	A/R	MDHI or 3M Co Bldg. 223-N 3M Center St. Paul MN 55155-1000 (612) 733-1110



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J. Warranty Policy:

In accordance with the existing warranty policy.

K. Disposition of Parts Removed

Return to MD Helicopters, Inc. (MDHI) Warranty and Repair Dept.

L. Tooling:

N/A

M. Weight and Balance:

N/A

N. Electrical Load Data:

N/A

O. Other Publications Affected:

Basic Handbook of Maintenance Instructions (CSP-HMI-2), Illustrated Parts Catalog (CSP-IPC-4).

P. Points of Contact

For further assistance, contact your local MDHI Field Service Representative (refer to the latest revision of the "At Your Service" handbook for address and telephone numbers) or contact the Field Service Department at MDHI, Mesa, Arizona. Telephone 1-800-388-3378 or (480) 346-6387. DATAFAX: (480) 346-6813.

2. ACCOMPLISHMENT INSTRUCTIONS

A. Inspect Fairing Support Assemblies

- (1). Remove all landing gear fairings (CSP-HMI-2, Section 32-10-00).
- (2). Inspect each fairing support assembly and note number and location of rivets attaching support assembly to landing gear strut.
 - (a). If three rivets (forward, aft and inboard) are present, continue with rework instructions below.
 - (b). If only two rivets (forward and aft) are present, fairing modification is not required. Reinstall fairings and record compliance with this Bulletin in Compliance Record section of helicopter Log Book.

NOTE: Landing Gear Fairing Fillets that have already been modified by procedures in the Handbook of Maintenance Instructions may not have to accomplish some steps in this Bulletin.

B. Rework Aft Landing Gear Assemblies

NOTE: Refer to CSP-HMI-2 and CSP-IPC-4, Section 32-10-00 for illustrations and part number callouts and Figure 1 and Figure 2 for location of inspection hole and fairing/fillet rework/installation.

- (1). Remove applicable aft fillet assembly (P/N 369A6200-45, -46, 369H92113-111 & -112). Remove rivets.

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- (2). Remove 369H6200-23 and -24 support assemblies.
- (3). Clean and dye penetrant inspect 0.125 inch (3.18 mm) diameter hole in inboard surface of 369H6001-31, -32, -51, or -52 strut assemblies as shown in CSP-IPC-4, Section 32-10-00 and Figure 1.
- (4). If a crack is found, replace strut assembly. If no crack is found, continue with rework.
- (5). Ream hole to 0.132 inch (3.35 mm) diameter to provide smooth (63 RMS) surface. Leave hole open and apply chemical coating to bare metal.
- (6). Drill 0.87 inch (22.09 mm) diameter hole through aft fairing in line with 0.132 inch (3.35 mm) diameter hole in strut as shown in Figure 1.
- (7). Seal exposed edges of composite fairings using adhesive. Touch-up finish to match aircraft finish. Install HS4248-C56 button plug in hole.
- (8). Install 369H6200-23 and/or -24 aft support as required, using existing 0.125 inch (3.35 mm) diameter holes on forward and aft surfaces of strut assembly. Install support using two NAS1919B04-04 rivets.
- (9). Re-install 369H6200-61 and/or -62 aft fairing assembly.
- (10). Re-install 369A6200-45 and -46 aft fillet assemblies using (1) NAS603-7 with (2) AN960KD10L washers (top position) and NAS603-6 screws with (1) AN960KD10L at each of the three bottom positions.
- (11). Re-install 369H92113-91 and/or -92 aft fairing assembly, 369H92113-131 and/or -132 filler assembly.
- (12). Re-install 369H92113-111 and/or -112 aft fillet assembly (extended gear) using (1) NAS603-7 with (2) AN960KD10L washers (top position) and NAS603-6 screws with 1 AN960KD10L at the three bottom positions.
- (13). Install (3) NAS603-8 screws and (3) AN960KD10L washers (both sides) to the 369A6200-73 and -74 guide assembly-fillet.

C. Rework Fwd Landing Gear Assemblies

NOTE: Refer to CSP-HMI-2 and CSP-IPC-4, Section 32-10-00 for illustrations and part number callouts and Figure 1 and Figure 2 for location of inspection hole and fairing/fillet rework/installation.

- (1). Remove 369H92113-101 and -102 fwd fillet assemblies for 369H92113-503 and -504. Remove 369A6200-57 and -58 fwd fillet assemblies for 369H6200-507 and -508. Remove rivets.
- (2). Remove 369H6200-23 and -24 support assemblies.
- (3). Clean and dye penetrant inspect 0.125 inch (3.18 mm) diameter hole in inboard surface of 369H6001-1, -2, -41 or -42 strut assemblies.
- (4). If a crack is found, replace strut assembly as required. If no crack is found, continue with rework.
- (5). Ream hole to 0.132 inch (3.35 mm) diameter. Leave hole open and apply chemical coating to bare metal.

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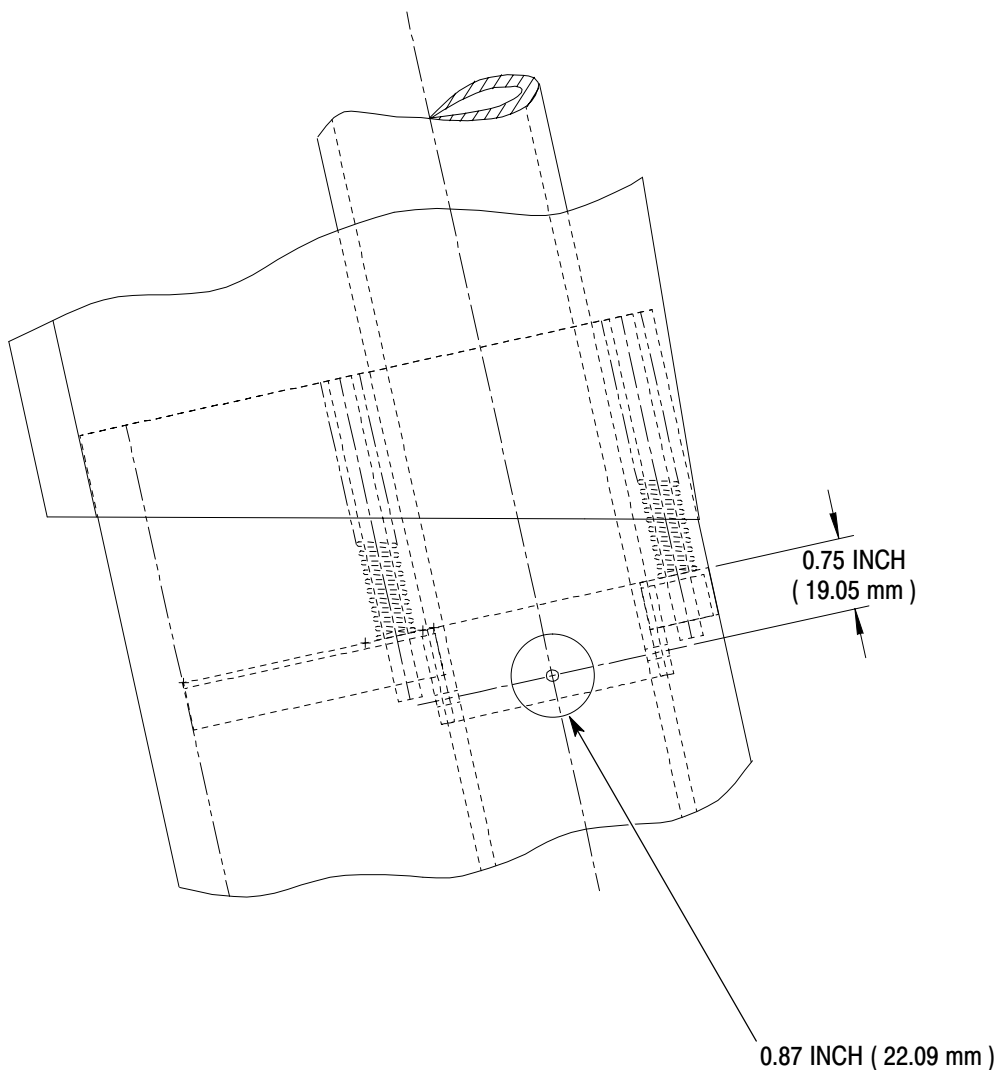
- (6). Drill 0.87 inch (22.09 mm) diameter hole through fwd fairing assemblies in line with 0.132 inch (3.35 mm) diameter hole in strut.
- (7). Seal exposed edges of composite fwd fairings using adhesive. Touch-up finish to match aircraft finish. Install HS4248-C56 button plug in hole.
- (8). Install 369H6200-23 and -24 fwd supports assemblies using existing 0.125 inch (3.35 mm) diameter holes on forward and aft surfaces of strut assembly. Install support using two NAS1919B04-04 rivets.
- (9). Reinstall applicable 369H6200-41 and -42 and 369H92113-81 and -82 (extended gear) fwd fairing assemblies and 369H92113-121 and -122 (extended gear) fwd filler assemblies using NAS1398B4-1 rivets.
- (10). Install 369A6200-57 and -58, 369H92113-101 and -102 (extended gear) fwd fillet assemblies using (1) NAS603-7 with (2) AN960KD10L washers (top position) and NAS603-6 screws with 1 AN960KD10L at the three bottom positions.
- (11). Install (3) NAS603-8 screws and (3) AN960KD10L washers (both sides) to the 369A6200-73 and -74 guide assembly-fillet.
- (12). Record compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book.

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VIEW LOOKING OUTBOARD NORMAL TO
FUSELAGE CONTOUR AT CENTERLINE OF STRUT
LH SIDE SHOWN. RH SIDE OPP
BOTH AFT AND FWD

88-762

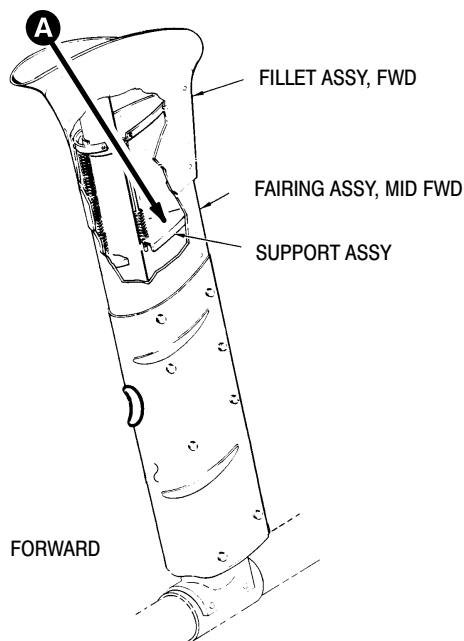
Figure 1. Landing Gear Strut Inspection Hole

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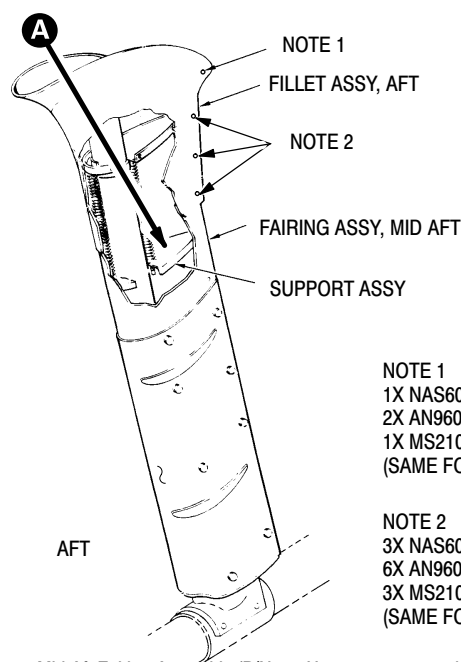
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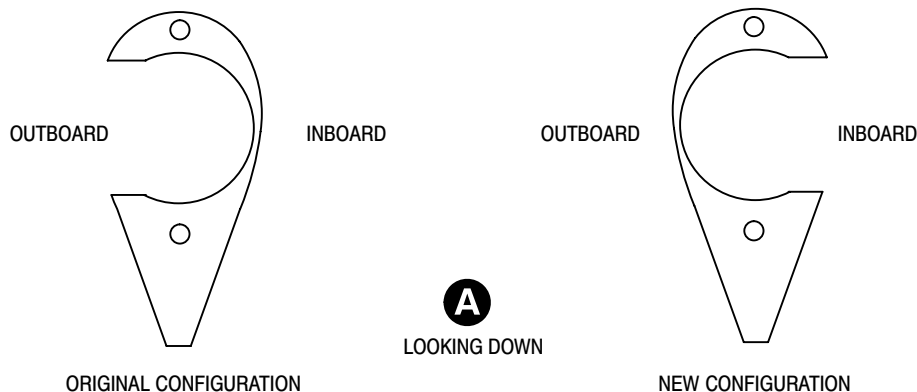
Mid Fwd Fairing Assembly (P/N 369H6200-41, -42, std gear)
Fwd Fairing Assembly (P/N 369H92113-81, -82, extended gear)
Support Assembly (P/N 369H6200-23, -24, std & extended)
Fwd Filler Assembly (P/N 369H92113-121, -122, extended gear)
Fwd Fillet Assembly (P/N 369A6200-57, -58, std gear)
Fwd Fillet Assembly (P/N 369H92113-101, -102, extended gear)



NOTE 1
1X NAS603-7 SCREW
2X AN960KD10L WASHER
1X MS21042-3 NUT
(SAME FOR ALL GEAR)

NOTE 2
3X NAS603-6 SCREW
6X AN960KD10L WASHER
3X MS21042-3 NUT
(SAME FOR ALL GEAR)

Mid Aft Fairing Assembly (P/N 369H6200-61, -62, std gear)
Aft Fairing Assembly (P/N 369H92113-91, -92, extended gear)
Support Assembly (P/N 369H6200-23, -24, extended and std gear)
Aft Filler Assembly (P/N 369H92113-131, -132, extended gear)
Aft Fillet Assembly (P/N 369A6200-45, -46, std gear)
Aft Fillet Assembly (P/N 369H92113-111, -112, extended gear)



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Figure 2. Landing Gear Modification

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