

ALERT SERVICE BULLETIN

UH-1H-16-16

31 May 2016

MODEL AFFECTED: UH-1H

SUBJECT: ALTERNATE SPARE PART; SCISSORS AND SLEEVE ASSEMBLY P/N 204-011-401-021, RECONFIGURATION AND REIDENTIFICATION OF

HELICOPTERS AFFECTED: UH-1H helicopters which are non-type certificated and owned and operated by other than an Armed Service of the United States.

COMPLIANCE: PART I: Within the next 50 flight hours but not later than 6 months after receipt of this ASB.

PART II: At the next disassembly of the scissors and sleeve assembly, but not later than 300 flight hours or 6 months after receipt of this ASB.

DESCRIPTION:

Special Use (SU) Technical Bulletin (TB) SU-94-3 authorized use of the P/N 204-011-401-021 Scissors and Sleeve Assembly on UH-1H helicopters, as described in the **HELICOPTERS AFFECTED** block above, in lieu of the 204-011-401-011 assembly.

Review of UH-1H fatigue and flight spectrum data has determined the retirement life differences between the individual components of the 204-011-401-011 and the -021 assemblies make the P/N 204-011-401-021 Scissors and Sleeve Assembly **not usable** as an assembly on the UH-1H. Therefore the authorization to use P/N 204-011-401-021 on the UH-1H is rescinded and TB SU-94-3 is cancelled (see TB SU-94-3, Revision B).

P/N 204-011-401-021 Assemblies which have been installed on UH-1H helicopters under the authority of previous issues of TB SU-94-3 must be reconfigured and re-identified as described in this bulletin.

Applicability of this bulletin to any spare part shall be determined prior to its installation on an affected aircraft.

APPROVAL:

Bell Helicopter does not authorize use of this bulletin to obtain approval from any civil regulatory authority for installation of the P/N 204-011-401-021 Scissors and Sleeve Assembly on any type certificated UH-1 helicopter.

The engineering design aspects of this bulletin are Bell Helicopter Engineering approved.

CONTACT INFO:

For any questions regarding this bulletin, please contact:

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MANPOWER:

Approximately 4.0 man-hours are required to complete Part I of this bulletin. Man-hours for Part II are not stated as they will vary depending on extent of reconfiguration required. The estimates are based on hands-on time, and may vary with personnel and facilities available.

WARRANTY:

There is no warranty credit applicable for parts or labor associated with this bulletin.

MATERIAL:

Required and consumable material will vary depending on extent of reconfiguration required. Refer to Accomplishment Instructions and referenced Special Use Technical Bulletins.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

TM 55-1520-210-23-1 AVUM & AVIM Maintenance Instructions
TM 55-1520-210-23P-1 AVUM & AVIM Repair Parts and Special Tools List
TM 55-1615-226-40 GS Maintenance Manual, Scissors and Sleeve assembly
DMWR 55-1520-210 Aircraft Depot Maintenance Work Requirement
Alert Service Bulletin UH-1H-16-15
Technical Bulletin SU-94-1, Revision B
Technical Bulletin SU-94-3, Revision B
Technical Bulletin SU-16-09

PUBLICATIONS AFFECTED:

TM 55-1520-210-23-1 AVUM & AVIM Maintenance Instructions
TM 55-1520-210-23P-1 AVUM & AVIM Repair Parts and Special Tools List
TM 55-1615-226-40 GS Maintenance Manual, Scissors and Sleeve assembly
DMWR 55-1520-210 Aircraft Depot Maintenance Work Requirement
Technical Bulletin SU-94-3

ACCOMPLISHMENT INSTRUCTIONS:

PART I:

1. P/N 204-011-401-011 is the authorized Scissors and Sleeve Assembly for the UH-1H helicopter. Refer to Table 1 for the primary component differences between the -011 and -021 assemblies.
 - a. The following are the only Bell Helicopter approved alternate primary components for the -011 assembly:
 - (1) P/N 204-011-405-013 Collective Hub Assembly, alternate for P/N 204-011-405-009. For further information refer to TB SU-16-09
 - (2) P/N 212-010-407-111 or 212-010-407-113 Scissor Lever Assemblies, alternates for P/N 204-011-406-009 or -013. For further information refer to ASB UH-1H-16-15 and TB SU-94-1, Rev B.
 - (3) P/N 204-011-408-105 Collective Sleeve Assembly is a direct replacement for the P/N 204-011-408-003 Collective Sleeve Assembly.
 - b. Neither P/N 204-011-408-107 nor P/N 212-011-412-101 Collective Sleeve Assembly **have been approved** by Bell Helicopter for installation on the UH-1H.

- c. P/N 212-010-411-005 is the only scissor to collective hub pivot bolt approved for the UH-1H when P/N 212-010-407 scissor lever assemblies are installed. The -005 bolt is subject to a 1,000 hour retirement life.
2. Refer to Table 1. Inspect P/N 204-011-401-021 assemblies installed on the UH-1H under the previous authority of TB SU-94-3 to determine part numbers of scissor lever assemblies, collective hub, and collective sleeve assemblies are installed.
 - a. If either P/N 204-011-408-107 or 212-011-412-101 Collective Sleeve has been installed, they must be replaced as described in Part II of this ASB.
 - b. P/N 204-011-405-013 Collective Hub Assembly is subject to a 9,000 hour retirement life when installed on the UH-1H. See TB SU-16-09 for information.
 - (1) Review helicopter and components records to determine hub current total time.
 - (2) If required, revise existing historical records for each -013 Collective Hub Assembly to reflect the 9,000 hour retirement life. Hub assemblies in excess of 9,000 hours must be replaced as described in PART II of this ASB.
 - c. P/N 212-010-407-001 or 212-010-407-109 Scissor Lever Assemblies:
 - (1) The 212-010-407-001 or -109 Scissor Lever Assemblies, when used on the UH-1H, are subject to a 3,300 hour retirement life and must be re-identified to a new part number. Refer to ASB UH-1H-16-15.
 - (2) Review helicopter and component records to determine scissor lever assembly current total time.
 - (a) P/N 212-010-407-001 or 212-010-407-109 Scissor Lever Assemblies which exceed 3,300 hours, or whose time in service cannot be determined, cannot be re-identified and must be replaced as described in PART II of this ASB.
 - (b) Re-identify scissors lever assemblies whose time in service can be documented as less than 3,300 hours in accordance with ASB UH-1H-16-15.
3. Inspect scissor and sleeve assembly for part number of scissor to collective hub pivot bolt installed. Part number is located on the bolt head.

-NOTE-

P/N 212-010-411-001, -003, and -005 pivot bolts are only used with P/N 212-010-407 Scissors Assemblies.

P/N 212-010-411-005 is the only pivot bolt approved for the UH-1H when P/N 212-010-407 scissor lever assemblies are installed.

- a. If P/N 212-010-411-001 or -003 bolts are installed, they must be replaced as described in PART II of this ASB.
 - b. If P/N 212-010-411-005 bolts are installed, check component and/or helicopter records to determine if they are being tracked as 1,000 hour retirement life items.
 - (1) If the -005 bolts are tracked as 1,000 hour retirement life items, no further action is required.
 - (2) If the -005 bolts are not being tracked as 1,000 hour retirement life items:
 - (a) Review helicopter/component records to determine bolt current total time.
 - (b) Bolts in excess of 1,000 hours total time, or whose total time cannot be determined, must be replaced as described in PART II of this ASB.
 - (c) Bolts whose total time can be documented as less than 1,000 hours, may be continued in service. If not previously accomplished, create an historical record card (HRC) for each -005 bolt noting the 1,000 hour retirement life, annotate the bolt's documented current total time; and, update scissor and sleeve assembly records.
4. If replacement of parts is not required and if the P/N 212-010-407 scissors lever assemblies have been re-identified per step 2.c. above, the P/N 204-011-401-021 Scissors and Sleeve Assemblies are to be re-identified as follows:
- a. Locate the scissors and sleeve data plate on the collective hub assembly.

CAUTION

IN THE FOLLOWING STEP, DO NOT VIBRO SCRIBE THE HUB ASSEMBLY, VIBRO SCRIBE ONLY THE DATA PLATE.

- b. Using a vibrating stylus, place a single line through the -021 portion of the part number on the data plate. Adjacent to the lined out number, vibro scribe -011FM. **DO NOT CHANGE THE ASSEMBLY SERIAL NUMBER.**

- c. Revise the component and helicopter records to show the part number change to the scissors and sleeve assembly and note this ASB was authority for the change.
5. P/N 204-011-401-021 Scissors and Sleeve Assemblies which **require** replacement of the sleeve (paragraph 2.a), hub (paragraph 2.b.(2)), scissors (paragraph 2.c.(2)), and/or pivot bolt (paragraph 3.b.(2)(b)) **are to be re-identified only** during compliance with PART II of this ASB.
 6. If Part II compliance is not required:
 - a. Maintain the modified -011FM Scissors and Sleeve Assembly in accordance with U.S. Army publications except as may be noted in TB SU-94-1, Rev B.
 - b. Make an entry in helicopter historical service records and logbook indicating compliance with this ASB.

PART II:

1. As a result of the component review in PART I, paragraph 2:
 - a. If either P/N 204-011-408-107 or 212-011-412-101 Collective Sleeve is installed, they must be removed in accordance with Part II of the COMPLIANCE section of this bulletin and replaced with either P/N 204-011-408-003 or -105 Collective Sleeve. Refer to TM 55-1520-210-23-1 or TM 55-1615-226-40 for replacement procedures.
 - b. If the P/N 204-011-405-013 Collective Hub Assembly must be replaced due to its exceeding the 9,000 hour retirement life, it must be removed in accordance with Part II of the COMPLIANCE section of this bulletin and replaced with P/N 204-011-405-009 or -013 Hub.
 - 1) Refer to TM 55-1520-210-23-1 or TM 55-1615-226-40 for replacement procedures when installing the P/N 204-011-405-009.
 - 2) Refer to TB SU-16-09 for use of the 204-011-405-013 as an alternate part.
 - 3) Prior to reassembly, carefully remove the scissors and sleeve assembly data plate from the old hub and transfer to the new hub using new drive screws, P/N MS21318-13.
 - c. If either the P/N 212-010-407-001 or 212-010-407-109 Scissor Lever Assemblies must be replaced due to their exceeding the 3,300 hour retirement life, they must be removed in accordance with Part II of the COMPLIANCE section of this bulletin.

- 1) Refer to TM 55-1520-210-23-1 or TM 55-1615-226-40 for replacement procedures when installing the P/N 204-011-406-009 or -013 Scissor Lever Assemblies.
 - 2) Refer to TB SU-94-1, Revision B, for information on use of P/N 212-010-407-111 or -113 Scissor Lever Assemblies.
2. If pivot bolts (scissor to collective hub) require replacement per PART I, step 3:
 - a. When P/N 212-010-407 scissor lever assemblies are to be installed, use P/N 212-010-411-005 Pivot Bolts. Refer to TB SU-94-1, Rev B, PART III, for removal, installation, and historical record requirements.
 - b. When P/N 204-011-406-009 or -013 Scissor Lever Assemblies are to be installed, use P/N NAS464-P8-90 or NAS6208-90D pivot bolts. Refer to TM 55-1520-210-23-1 or TM 55-1615-226-40 for installation procedures.
 3. Following replacement of all of the items required in Part II, step 1 and/or 2, P/N 204-011-401-021 Scissors and Sleeve Assemblies are to be re-identified as noted in PART I, paragraphs 4.a, 4.b., and 4.c.
 4. Maintain the re-identified 204-011-401-011FM Scissors and Sleeve Assembly in accordance with U.S. Army publications except as may be noted in TB SU-94-1, Rev B.
 5. Make an entry in helicopter historical service records indicating compliance with this Alert Service Bulletin.

TABLE 1				
204-011-401 Scissors & Sleeve Assembly Primary Component Differences*				
PART NUMBER	NOMENCLATURE	-011	-021	REFERENCES
204-011-405-009	Hub Assy	X		
204-011-405-013	Hub Assy		X	See TB SU-16-09 for use on UH-1H
204-011-406-009	Scissor Assy	X		
204-011-406-013	Scissor Assy	X		
204-011-408-003	Sleeve Assy	X	X	
204-011-408-105	Sleeve Assy	X	X	
204-011-408-107	Sleeve Assy		X	Not approved for UH-1H
212-010-407-001	Scissor Assy		X	See ASB UH-1H-16-15
212-010-407-109	Scissor Assy		X	See ASB UH-1H-16-15
212-010-407-111	Scissor Assy	X		See TB SU-94-1, Rev B, for use on UH-1H
212-010-407-113	Scissor Assy	X		See TB SU-94-1, Rev B, for use on UH-1H
212-010-411-005	Pivot Bolt		X	See TB SU-94-1, Rev B, for use on UH-1H
212-011-412-101	Sleeve Assy		X	Not approved for UH-1H

* Does not include all assembly differences. Refer to referenced bulletins were applicable.