TECHNICAL BULLETIN

Bell Helicopter
A Textron Company

DATE	
REV	

No. 206L-07-224
Date JUL 03, 2007

MODEL AFFECTED: **206L Series**

SUBJECT: **FAN ASSEMBLY, 206-040-370-ALL, CONFIGURATION OF**

HELICOPTERS AFFECTED: 206L, S/N 45004 through 45153, and 46601 through 46617.
206L1, S/N 45154 through 45790.
206L3, S/N 51001 through 51612.
206L4, S/N 52001 and subsequent.

FAN ASSY P/N	NOTE	PRODUCTION EFFECTIVITY	
206-040-370-005		206L	45001 through 45153
206-040-370-005		206L	46601 through 46617
206-040-370-013	(1)(2)	206L1	45154 through 45790
206-040-370-013	(1) (2)	206L3	51001 through 51205
206-040-370-103	(1) (2)	206L3	51206 through 51612
206-040-370-105	(1) (2)	206L4	52001 through 52206
206-040-370-113	(2)	206L4	52207 and subsequent

NOTES:

1. This assembly can be upgraded to the next dash number configuration shown in Table 1.

2. The fan assembly -113 is the current production and spares configuration that can be use on models 206L1, 206L3, and 206L4.

COMPLIANCE:

At option of the operator. However, it is recommended that this bulletin be accomplished whenever the fan assembly is removed.

All applicable Alert Service Bulletin (ASB) detailed in the REFERENCE section of this bulletin must be accomplished prior to upgrading to a newer fan assembly configuration.

This bulletin does not apply to fan assemblies that have been subjected to repair, rework, or modifications that are not approved by Bell Helicopter.

DESCRIPTION:

This bulletin provides information that can be used to upgrade the fan assembly and the blower assembly to a newer configuration. This bulletin identifies the components required for each modification.

Table 1 gives the configuration of the fan assembly while table 2 gives the configuration of the blower assembly.

APPROVAL:

The engineering design aspects of this bulletin are TCCA approved.

MANPOWER:

If you accomplish this bulletin during normal overhaul, additional man-hours will not be necessary.

WARRANTY:

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

MATERIALS:

Refer to ACCOMPLISHMENT INSTRUCTION. Standard replacement parts necessary at overhaul are not included. Parts for the upgrade can be obtained through your Bell Helicopter Textron Supply Center.

SPECIAL TOOLS:

Refer to Model 206L CR&O-1, Chapter 65

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

ASB 206L-77-12	Replacement of oil cooler blower impeller, P/N 206-061-432-011, with impeller, P/N 206-061-432-031.
ASB 206L-86-40	Inspection of oil cooler impeller P/N 206-061-432-031.

BHT-206L-SERIES-CR&O-1, 18 June 1993.
Chapter 65, Tail Rotor Drive System.

PUBLICATIONS AFFECTED:

None affected

ACCOMPLISHMENT INSTRUCTIONS:

1. Refer to Component Repair and Overhaul Manual (BHT-206L-CR&O) for oil cooler blower disassembly and assembly instructions.

-NOTE-

The Tables 1 and 2 contain only major items of fan assembly and blower assembly. Refer to the applicable Illustrated Parts Breakdown Manual for the other parts you may need.

2. Upgrade the fan assembly and the blower assembly using the information in Tables 1 and 2. The components listed below the assembly dash number are included in that specific configuration.

-NOTE-

You must do all the changes defined in Tables 1 and 2 to be able to change the part number on the external surface of the blower housing.

3. Locally fabricate a data plate 4.00 inches long, 0.600 inch wide, 0.032 inch thick aluminum 2024T3. Identify the fan assembly, with the use of a vibrating tool, with the correct configuration dash number that you defined in step 2.

Example: 206-040-370-113

4. Apply sealant (C-346) to data plate and install on upper surface of the left hand side support of the blower housing between the two mounting holes.

5. Identify the blower assembly, with the use of a black permanent ink pen, with the correct configuration dash number that you defined in step 2.

Example: 206-061-432-107

6. Make an entry in the helicopter records reflecting compliance with this Technical Bulletin.

TABLE 1-Fan assembly configuration

PART NAME	P/N	NOTES	FAN ASSEMBLY 206-040-370				
			-005	-013	-103	-105	-113
				(1)	(2)	(3)	(4)
SHAFT	206-040-320-015	(5)	**X**	**X**	**X**		
	206-040-320-103					**X**	**X**
BEARING	206-040-339-009	(6)	**X**	**X**	**X**	**X**	
	206-040-339-101	(7)					**X**
HANGER ASSY AFT	206-040-345-013	(8)	**X**				
	206-040-355-003	(9)		**X**	**X**	**X**	**X**
HANGER ASSY FWD	206-040-346-013	(10)	**X**				
	206-040-346-021	(11)		**X**	**X**	**X**	**X**
BLOWER ASSY	206-061-432-007	(12)	**X**				
	206-061-432-033		**X**				
	206-061-432-035	(13)		**X**			
	206-061-432-107				**X**	**X**	**X**

NOTES:

1. Replaced by fan assy 206-040-370-103. (2)
2. Replaced by fan assy 206-040-370-105. (3)
3. Replaced by fan assy 206-040-370-113.
4. Replaces -013, 103, and 105 fan assembly.
5. Replaced by shaft 206-040-320-103.
6. Replaced by bearing 206-040-339-101 (7).
7. As an alternate, use bearing 206-040-339-103.
8. Replaced by hanger assy 206-040-355-003 (9).
9. As an alternate, use hanger assy 206-040-355-103.
10. Replaced by hanger assy 206-040-346-021.
11. As an alternate, use hanger assy 206-040-346-103 (10).
12. Replaced by blower assy 206-061-432-033.
13. Replaced by blower assy 206-061-432-107.

TABLE 2-Blower Assembly configuration.

PART NAME	P/N	NOTES	BLOWER ASSY 206-061-432			
			-007	-033	-035	-107
			(1)		(2)	
BLOWER HOUSING	206-061-432-009		**X**	**X**		
	206-061-432-029	(3)			**X**	**X**
INLET	206-061-432-013		**X**	**X**	**X**	**X**
IMPELLER	206-061-432-011	(4)(5)	X			
	206-061-432-031	(5)(6)		**X**	**X**	
	206-061-432-109	(6)				**X**

NOTES:

1. Replaced by blower assembly 206-061-432-033.
2. Replaced by blower assembly 206-061-432-107.
3. The -009 and the -029 housing are physically different. The opening of -009 for oil cooler adapter mounting is straight while this opening on the -029 housing is not symmetrical.
4. Replaced by impeller 206-061-432-031 (refer to ASB 206L-77-12).
5. Replaced by impeller 206-061-432-109 (refer to ASB 206L-86-40).
6. Figure 1 below provides with physical difference between impeller -031 and -109.

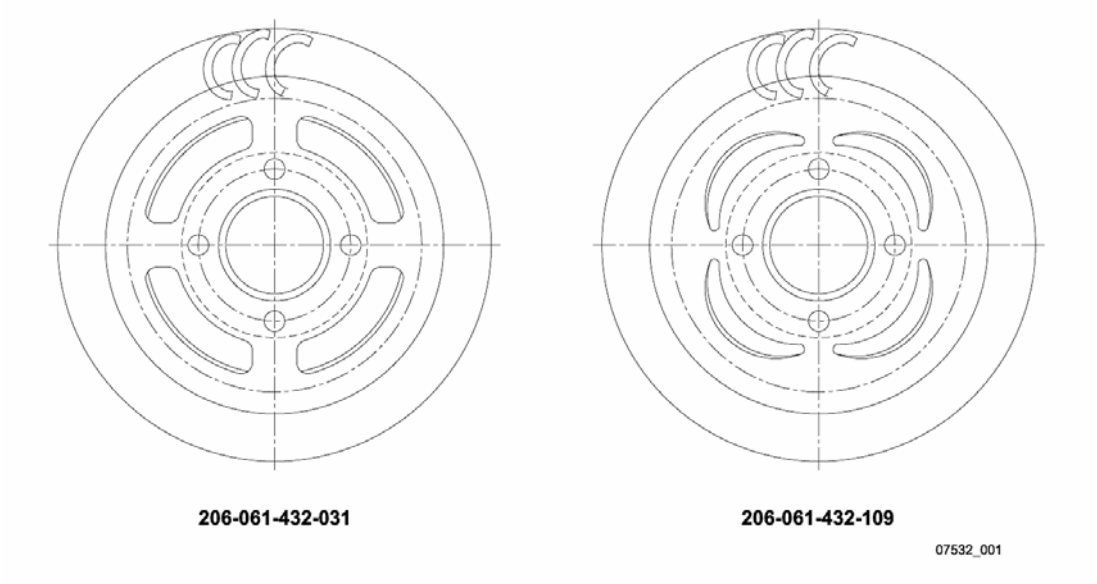

Figure 1. Impeller