

ALERT SERVICE BULLETIN



NO. 430-01-22

DATE 04-30-01

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DATE
REV

MODEL AFFECTED: 430

SUBJECT: TEMPORARY AMBIENT AIR TEMPERATURE LIMITATION, REMOVAL OF

HELICOPTERS AFFECTED: Model 430 helicopters serial number 49001 through 49075.

Model 430 helicopters serial numbers 49076 and subsequent will have the intent of this bulletin accomplished prior to delivery.

COMPLIANCE: At customer's convenience but no later than December 31, 2001.

DESCRIPTION:

Alert Service Bulletin 430-98-8 dated 12-31-98 introduced damper blade sets P/N 430-310-104-105 with a pressure indicator as a positive means of leak detection. Compliance with this ASB eliminated the 50-hour inspection requirement. However, the operation of the aircraft was temporarily restricted to ambient air temperature of -20 degrees C (-4 degrees F).

Additional testing to remove the temporary ambient air temperature limitation has been completed. The tests identified the need to modify the airspeed limits decal. This bulletin provides a procedure to replace the existing airspeed limits decal with a new decal that will restore the operation of the aircraft to -40 degrees C (-40 degrees F). In addition, new decals will be added to the instrument panel to remind the pilot and co-pilot to respect the revised airspeed limitations.

APPROVAL:

The engineering design aspects of this bulletin are Transport Canada approved.

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AN APPROPRIATE ENTRY SHOULD BE MADE IN THE AIRCRAFT LOG BOOK UPON ACCOMPLISHMENT
IF OWNERSHIP OF AIRCRAFT HAS CHANGED PLEASE FORWARD TO NEW OWNER

MANPOWER:

Approximately 1 man-hour is required to complete this bulletin. Man-hours are based on hands-on time, and may vary with personnel and facilities available.

MATERIAL:

Required Material:

The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>
430-075-208-115	Decal (Note 1)	1
430-075-208-117	Decal (Note 2)	1
430-075-070-101	Decal (Note 3)	1 or 2
430-075-070-103	Decal (Note 4)	2

Note 1: Only for aircraft equipped with standard or high skid landing gear. Refer to figure 1.

Note 2: Only for aircraft equipped with retractable landing gear. Refer to figure 1.

Note 3: Only for aircraft equipped with 430-705-009 or 430-705-011 kit. (AFCS with Flight director) **Quantity 1 for 2 tube EFIS or Quantity 2 for 4 tube EFIS.** Refer to figure 2.

Note 4: Only for aircraft equipped with 430-706-004 overspeed warning system kit (Category A operations). Refer to figure 2.

Consumable Material:

The following material is required to accomplish this bulletin, but may not require ordering, depending on the operator's consumable material stock levels. This material may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>	<u>Reference</u>
TT-N-95,TYII 1GAL	Aliphatic Naphtha	A/R	C-305
3950 SCOTCHCAL	Decal Sealer	A/R	C-349

SPECIAL TOOLS:

None required

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-430-Maintenance Manual
BHT-430- Illustrated Parts Catalog
BHT-430-MMS-12
Alert Service Bulletin 430-98-8
BHT-430-FM-1, Temporary Revision dated 16 February 2000
BHT-430-FMS -1 dated 16 February 2000
BHT-430-FMS -36 dated 16 February 2000

PUBLICATIONS AFFECTED:

BHT-430-Maintenance Manual
BHT-430- Illustrated Parts Catalog
BHT-430-MMS-12
BHT-430-FM-1
BHT-430-FMS -1
BHT-430-FMS -36

ACCOMPLISHMENT INSTRUCTIONS:

A) For aircraft equipped with retractable landing gear:

1. Remove existing airspeed limitation decal P/N 430-075-208-113 from the overhead console. Use a sharp pointed knife to lift one corner of the decal and then remove the decal.
2. Remove the decal adhesive that remains with aliphatic naphtha (C-305).

3. Install decal P/N 430-075-208-117 in the location of the decal previously removed. Refer to figure 1. Seal edge of decal with sealer. (C-349)

B) For aircraft equipped with standard or high skid landing gear:

1. Remove existing airspeed limitation decal P/N 430-075-208-111 from the overhead console. Use a sharp pointed knife to lift one corner of the decal and then remove the decal.
2. Remove the decal adhesive that remains with aliphatic naphtha (C-305).
3. Install decal P/N 430-075-208-115 in the location of the decal previously removed. Refer to figure 1. Seal edge of decal with sealer. (C-349)

C) For aircraft equipped with 430-706 004 overspeed warning system kit (Category A operations):

1. Install decals P/N 430-075-070-103 just below the pilot and co-pilot airspeed indicators. Refer to figure 2. Seal edge of decal with sealer. (C-349)

D) For aircraft equipped with 430-705-009 or 430-705-011 kit (AFCS with Flight director):

-NOTE-

If the space above the indicator is already used, locate the decal in a space as close as possible to the indicator. However it must be in plain view of the pilot and the co-pilot.

1. Install decal (s) P/N 430-075-070-101 just above the pilot and co-pilot electronic attitude direction indicator (EADI). Refer to figure 2. Seal edge of decal with sealer. (C-349)

E) For all aircraft:

1. Remove and discard BHT-430-FM1, Temporary Revision Dated 16 February 2000.
2. Insert BHT-430-FM1 Revision 13 Dated 06 February 2001.
3. Remove and discard BHT-430-FMS-1, Temporary Revision Dated 16 February 2000.

4. Insert BHT-430-FMS-1 Revision 3, Dated 06 February 2001.
5. Remove and discard BHT-430-FMS-36, Dated 16 February 2000.
6. Annotate the helicopter records to reflect compliance with this bulletin.

	OAT C°	PRESSURE ALTITUDE FT X 1000											
		0	2	4	6	8	10	12	14	16	18	20	
VNE AIRSPEED LIMITS- BASIC HELICOPTER (INDICATED AIRSPEED IN KTS)	52	148											AUTOROTATION VNE 80 KIAS
	40	150	144	137	130								
	30	150	147	140	133	126	119						
	20	150	150	143	136	129	122	114	107	100			
	10	150	150	147	140	133	125	118	111	104	96	89	
	0	150	150	150	143	136	128	121	114	107	99	92	
	-10	145	145	145	141	133	125	117	110	102	95	87	
	-15	139	139	139	137	129	122	114	106	98	91	83	
	-20	133	133	133	133	125	117	109	102	94	86	79	
	-25	120	120	120	120	118	108	97	87	77	67		
	-30	110	110	110	110	110	98	86	73				
	-35	100	100	100	100	100	90	75					
	-40	95	95	95	95	95	82	65					
VNE IS 130 KIAS FOR CERTAIN TAKEOFF LOADING CONDITIONS FROM FUSELAGE STATION 249 TO FUSELAGE STATION 255													

Decal P/N 430-075-208-115

	OAT C°	PRESSURE ALTITUDE FT X 1000											
		0	2	4	6	8	10	12	14	16	18	20	
VNE AIRSPEED LIMITS- BASIC HELICOPTER (INDICATED AIRSPEED IN KTS)	52	148											AUTOROTATION VNE 80 KIAS
	40	150	144	137	130								
	30	150	147	140	133	126	119						
	20	150	150	143	136	129	122	114	107	100			
	10	150	150	147	140	133	125	118	111	104	96	89	
	0	150	150	150	143	136	128	121	114	107	99	92	
	-10	145	145	145	141	133	125	117	110	102	95	87	
	-15	139	139	139	137	129	122	114	106	98	91	83	
	-20	133	133	133	133	125	117	109	102	94	86	79	
	-25	120	120	120	120	118	108	97	87	77	67		
	-30	110	110	110	110	110	98	86	73				
	-35	100	100	100	100	100	90	75					
	-40	95	95	95	95	95	82	65					
VNE IS 130 KIAS FOR CERTAIN TAKEOFF LOADING CONDITIONS FROM FUSELAGE STATION 249 TO FUSELAGE STATION 255													
GEAR EXTENSION & RETRACTION VLO 120 KIAS													

Decal P/N 430-075-208-117

Figure 1

**FLIGHT DIRECTOR VNE OVERSPEED
PROTECTION SYSTEM UNRELIABLE
REFER TO VNE PLACARD**

Decal P/N 430-075-070-101

**VNE INDICATOR UNRELIABLE
REFER TO VNE PLACARD**

Decal P/N 430-075-070-103

Figure 2