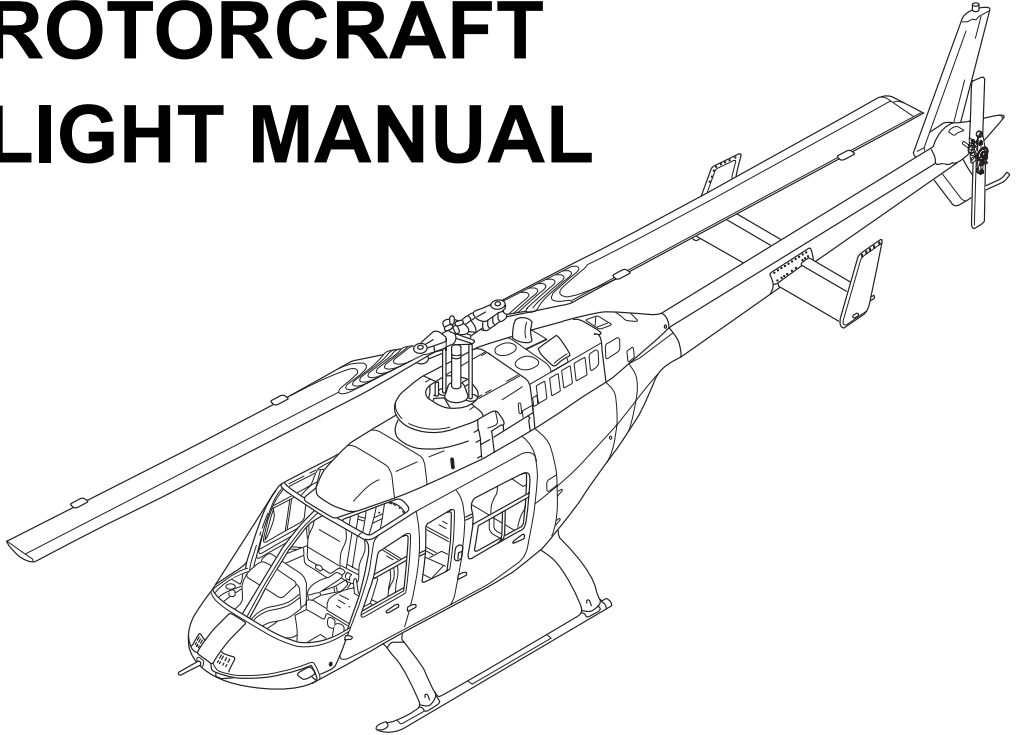
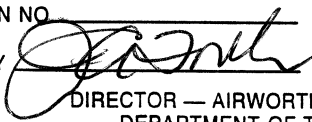


Bell **206L** MODEL

ROTORCRAFT FLIGHT MANUAL



TYPE CERTIFICATE NO. <u>H-92</u>	
REGISTRATION NO. _____	SERIAL NO. _____
APPROVED BY 	DATE <u>14 SEPTEMBER 1995</u>
DIRECTOR — AIRWORTHINESS BRANCH DEPARTMENT OF TRANSPORT	
THE AVIATION REGULATORY AUTHORITY FOR THIS FLIGHT MANUAL IS THE CANADIAN DEPARTMENT OF TRANSPORT, AIRWORTHINESS BRANCH.	
U.S. REGISTERED HELICOPTERS ARE APPROVED BY THE FAA IN ACCORDANCE WITH THE PROVISIONS OF 14 CFR SECTION 21.29 ON <u>14 SEPTEMBER 1995</u>	

THIS MANUAL SHALL BE IN THE HELICOPTER DURING ALL OPERATIONS

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Bell helicopter

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22 SEPTEMBER 1975
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DATE *5 Nov 2007*


CHIEF, FLIGHT TEST
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TRANSPORT CANADA

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BHT-206L-FM-1

WEIGHT LIMITATIONS (Cont)

LATERAL C.G. LIMITS

4.0 inches left of helicopter center line.

3.5 inches right of helicopter center line.

POWER PLANT LIMITATIONS

ENGINE

Allison Model 250-C20B/J Engine with Bendix fuel control.

POWER TURBINE (N2) OPERATING RPM

Maximum — 100%

POWER PLANT LIMITATIONS (CONT)**POWER TURBINE (N₂) OPERATING RPM (CONT)****WARNING**

USE OF THE THROTTLE TO CONTROL RPM IS NOT AUTHORIZED. (REFER TO SECTION 3, EMERGENCY PROCEDURES FOR EXCEPTION.)

Continuous operation	97 to 100%
Minimum	97%
Avoid continuous operation for more than 60 seconds	75 to 88% — Engine torque greater than 20%
Transient, 15 seconds	105%

NOTE

Refer to Rolls-Royce Operation and Maintenance Manual for transient overspeed limits.

GAS PRODUCER (N₁) RPM

Maximum	105% RPM
Transients	106% (maximum of 15 seconds)

PLACARDS AND STENCILS

These Placards located on the inside of
Baggage Compartment Door

MAXIMUM ALLOWABLE WEIGHT 250 LBS.
MAXIMUM ALLOWABLE WEIGHT PER SQ. FT. 86 LBS.

**CARGO MUST BE SECURED IN
ACCORDANCE WITH FLIGHT MANUAL INSTRUCTION**

AVOID 75% TO 88% N2 ABOVE 20% TQ 60 SEC MAX

Location: Instrument panel.

ENGINE STARTING (CONT)**CAUTION**

IF THE MAIN ROTOR IS NOT ROTATING BY 25% GAS PRODUCER SPEED (N_1), ABORT THE START.

NOTE

ENG OUT light extinguishes at 55% N_1 .

Starter — Release at 58% gas producer RPM.

Engine and transmission oil — Check pressures.

CAUTION

IF THE ENGINE HAS BEEN SHUT DOWN FOR MORE THAN 15 MINUTES, STABILIZE AT IDLE SPEED FOR 1 MINUTE BEFORE INCREASING POWER.

NOTE

During cold temperature operations, stabilize at idle speed until oil temperature reaches 0°C.

Gas producer RPM — Check for 62 to 64%.

Auxiliary power — Disconnect.

Battery switch — ON.

Smoothly and firmly advance throttle at a continuous rate to full open position, maintaining collective pitch down and cyclic control in neutral. Check ROTOR LOW RPM caution light out at 90% N_R .

Gas producer RPM (N_1) — Check 70% minimum.

CAUTION

DO NOT TURN GENERATOR ON UNTIL 70% GAS PRODUCER RPM IS REACHED.

ENGINE STARTING (CONT)

Generator switch — ON.

Throttle — Idle.

WARNING

AVOID CONTINUOUS OPERATION FOR MORE THAN 60 SECONDS WHEN BETWEEN 75 TO 88% N₂ AND ENGINE TORQUE GREATER THAN 20%.

NOTE

Uncommanded control movement or motoring with hydraulic system off may indicate hydraulic system malfunction.

Hydraulic Control Switch — OFF, then ON.

RPM switch — Actuate, check range 97 to 100% N₂ RPM. Set at 100%.

ENGINE RUN-UP CHECK

Radio and navigation equipment — ON.

ELT (if installed) — Check for inadvertent transmission.

Engine anti-ice switch — ON; check TOT increase. Return to OFF; check TOT decrease.

NOTE

If temperature is 4.4°C (40°F) or below and visible moisture is present, the engine anti-ice shall be ON.

Flight controls — Friction OFF.

NOTE

The hydraulic systems check is to determine proper operation of the hydraulic actuators for each flight control system. If abnormal forces, unequal forces, control binding or motoring are encountered, it may be an indication of a malfunction of a flight control actuator.

Collective — Full down.