

BHT-206B-FMS-19

MODEL 206B
Bell JetRanger-II

**ROTORCRAFT
FLIGHT MANUAL
SUPPLEMENT FOR**

206-706-038

**ENGINE
(AUTOMATIC)
RE-IGNITION**

**CERTIFIED
DECEMBER 15, 1972**

This supplement shall be attached to the Flight Manual, when the 206-706-038, Engine (Automatic) Re-ignition Kit has been installed.

Information contained herein supplements information of basic Flight Manual. For Limitations, Procedures, and Performance Data not contained in this supplement, or other applicable supplements, consult basic Flight Manual.

Bell Helicopter **TEXTRON**

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GENERAL INFORMATION

The Engine Relight Kit (206-706-038) when installed will provide engine automatic re-ignition capability in the event of an engine flameout. The re-ignition of the engine is actuated, when the system is armed, by decay of engine bleed air as a result of the flameout.

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Section 1

OPERATING LIMITATIONS

WEIGHT LIMITATIONS

Actual weight change shall be determined after kit is installed and ballast readjusted, if necessary, to return empty weight CG within allowable limits.

ALTITUDE LIMITATIONS

Do not activate automatic re-ignition system at altitude above 12,000 feet Hp.

TYPE OF OPERATIONS

Particle Separator Engine Air Induction System (BHT-206B-FMS-15) and Engine Air Induction System Deflector Kit (BHT-206B-FMS-18) shall be installed in conjunction with Engine (Automatic) Re-Ignition System when conducting operations in falling and/or blowing snow.

Engine (Automatic) Re-Ignition System shall be ARMED when conducting operations in falling and/or blowing snow below 12,000 feet Hp.

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Section 2

OPERATING PROCEDURES

NORMAL PROCEDURES

ENGINE PRE-START CHECK

After Rotor Low RPM System Check add:

Engine Relight Switch – TEST

1. Move switch to TEST position, holding momentarily in Armed (ON) position (center).
2. Hold in TEST position and check for indicator light ON and listen for ignition system ON approximately two seconds.

Engine Relight Switch – OFF RESET

1. Move switch to OFF RESET position.
2. Light OUT.

NOTE

The engine relight switch has three positions as follows:

TEST –	Up position momentarily
ARMED (ON)	Center position
OFF – RESET	Lower position

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BEFORE TAKE-OFF

After Engine – Rotor – Set for 100 % in flat pitch add:

Engine Relight Switch – ARM

1. Move switch to ARMED (ON) center position.
2. The system will provide automatic re-ignition as long as switch is in this position

ENGINE SHUTDOWN

After Throttle – Flight Idle – etc add:

Engine Relight Switch – Check (ON)armed position. Press flight idle stop button and roll twist grip to full closed position.

Engine Relight Indicator Light – ON, indicates the engine (Automatic) Re-Ignition system is functional.

Engine Relight Switch – OFF.

EMERGENCY PROCEDURES

ENGINE AUTOMATIC – RE-IGNITION

1. If automatic re-ignition occurs the indicator light will light.
2. The system is still armed for a new re-ignition when light is ON.
3. To extinguish the light move switch down to OFF RESET Position, then up to ARMED (ON) position (center).

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Section 3

PERFORMANCE DATA

No change from basic Flight Manual.