

**BHT-206B-FMS-24**

**BELL MODEL 206B  
JET RANGER II  
FLIGHT MANUAL  
SUPPLEMENT FOR  
CABIN DOORS OFF**

**FAA APPROVED  
December 10, 1975**

This supplement shall be attached to the Flight Manual, when the Cabin Doors have been removed.

The information contained herein supplements the information of the basic Flight Manual. For Limitations, Procedures, and Performance Data not contained in this supplement, consult the basic Flight Manual.

**Bell Helicopter** **TEXTRON**

A Subsidiary of Textron Inc.

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## **INTRODUCTION**

This supplement will permit flight operations with one, all or any combination of forward and/or aft cabin doors removed. The limitation imposed by this supplement **SHALL BE ABSOLUTELY ADHERED TO FOR SAFETY REASONS**, as fore and aft cyclic control deteriorates and cyclic stick reversal can occur.

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# ***Section 1***

## ***OPERATING LIMITATIONS***

### **WEIGHT LIMITATIONS**

3200 pounds with one, all or any combination of forward and aft doors off.

### **AIRSPED LIMITATIONS**

#### **AFT DOOR(S) OFF**

Vne 100 MPH (87 knots) power ON or OFF with ONE or BOTH aft cabin doors OFF sea level to 3000 feet altitude.

Decrease Vne one MPH (one knot) per 1000 feet above 3000 feet altitude.

#### **FORWARD OR FORWARD AND AFT DOOR(S) OFF**

Vne 80 MPH (69 knots) power ON with ONE or BOTH FORWARD, ALL, or ANY COMBINATION of FORWARD and AFT DOORS OFF, sea level to 3000 feet altitude.

Decrease Vne one MPH (one knot) per 1000 feet above 3000 feet altitude.

Vne power OFF — 100 MPH (87 knots) with aft door(s) OFF.

Vne power OFF — 80 MPH (69 knots) with one or both forward doors OFF or any combination of forward and aft cabin doors OFF.

Vne 90 MPH (78 knots) with standard floats and left forward door removed.

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**AIRSPEED LIMITATIONS (Cont)****PLACARDS**

**FWD DOOR(S) OFF**  
**Vne 80 MPH (69 knots)**  
**C.G. 106-110**

(Located on both forward door frame posts).

**VNE 90 MPH (78 KNOTS) WITH STANDARD FLOATS  
AND L.H. FORWARD DOOR ONLY REMOVED.**

(Located on both forward door frame posts.)

**LONGITUDINAL CENTER OF GRAVITY LIMITS**

No change from basic helicopter C.G. with ONLY the AFT cabin door(s) OFF.

C.G. 106.0 to 110.0 with one or both FORWARD doors OFF or any combination of FORWARD and AFT cabin doors OFF.

**CENTER OF GRAVITY LIMITS**

Actual weight change shall be determined after doors, etc., have been removed and ballast readjusted, if necessary, to return empty weight center of gravity to within allowable limits.

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## **TYPE OF OPERATION**

### **OPERATION — DOORS OFF**

Flight operations with doors OFF requires removal of unsecured items.

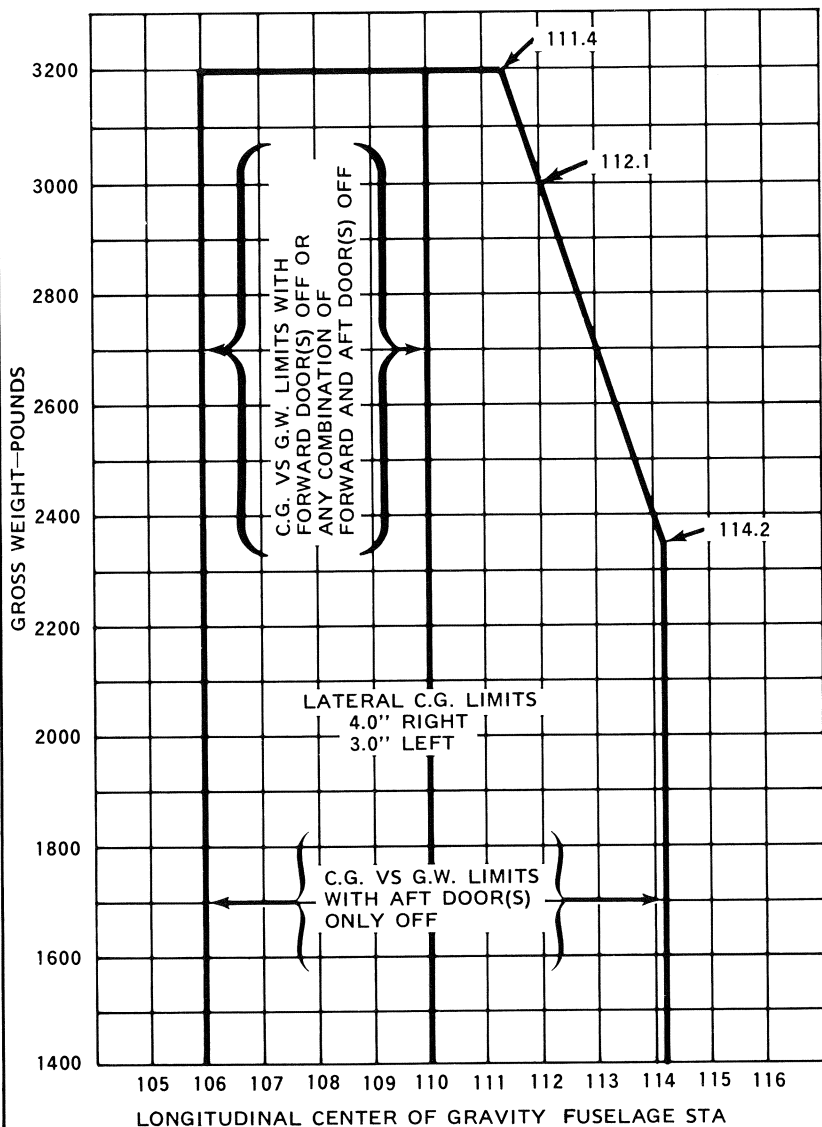
Vne 100 MPH (87 knots) with ONE or BOTH AFT DOORS OFF.

Vne 80 MPH (69 knots) with FORWARD DOOR(S) OFF or any combination of FORWARD and AFT DOORS OFF.

PROTRACTED REARWARD AND SIDEWARD FLIGHT PROHIBITED.

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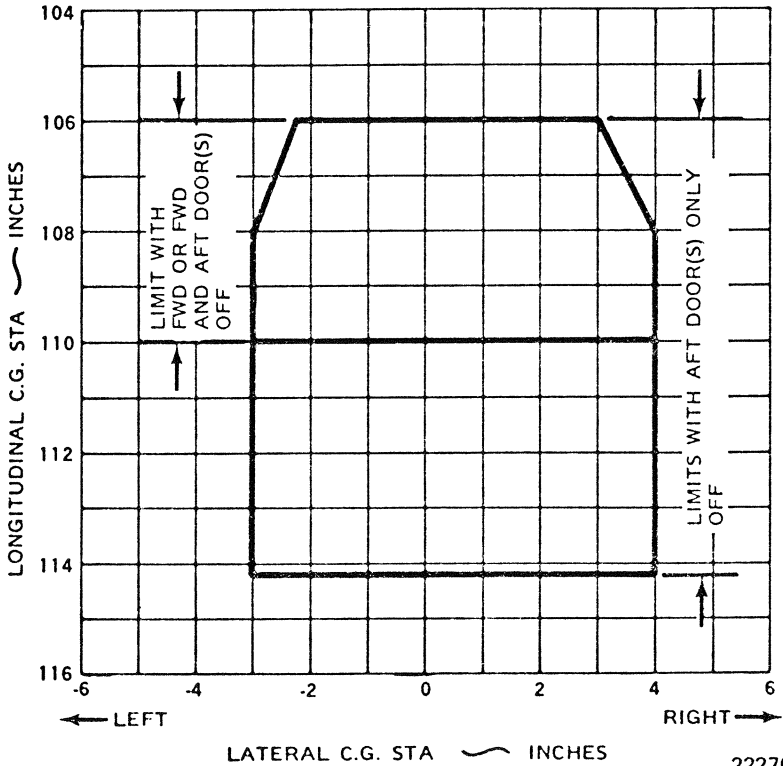
## DOOR(S) OFF CENTER OF GRAVITY vs GROSS WEIGHT





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# DOORS OFF LATERAL vs LONGITUDINAL C.G. LIMITS



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## TYPE OF OPERATION

External Cargo Loading limited to 3200 pounds gross weight with FORWARD DOOR(S) OFF or any combination of FORWARD and AFT DOORS OFF.

FORWARD DOOR(S) OFF FLIGHT OPERATIONS PROHIBITED with the litters optional equipment installed.

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# ***Section 2***

## ***OPERATING PROCEDURES***

### **NORMAL PROCEDURES**

#### **INTERIOR CHECK**

Cabin interior — Cleanliness, security of equipment, and unsecured items removed.

#### **IN-FLIGHT OPERATIONS**

Airspeed — Monitor, DO NOT EXCEED maximum allowable for the door(s) off flight configuration.

#### **WARNING**

Airspeeds in excess of the limits stated in Section 1 will cause cyclic control deterioration and fore and aft stick reversal.

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# ***Section 3***

## ***PERFORMANCE DATA***

### **RATE OF CLIMB — DOOR(S) OFF**

Reduce basic RATE OF CLIMB Chart Data 350 feet per minute when operating with one, all or any combination of cabin doors OFF.

For the optional equipment configured helicopter, the appropriate Rate of Climb Chart Data **SHALL BE REDUCED**, an additional 350 FEET PER MINUTE with one, all or any combination of cabin doors OFF.

