

BHT-212VFR-FM-1

Bell
MODEL **212**



**ROTORCRAFT
FLIGHT MANUAL**



POST OFFICE BOX 482 • FORT WORTH, TEXAS 76101

Bell **212** MODEL

ROTORCRAFT FLIGHT MANUAL



| | |
|---|-----------------------------|
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| APPROVED BY <u><i>Glenn D. Welsh</i></u> | DATE <u>29 OCTOBER 1970</u> |
| MANAGER | |
| ROTORCRAFT CERTIFICATION OFFICE FEDERAL AVIATION ADMINISTRATION FT. WORTH, TEXAS 76193-0170 | |

THIS MANUAL SHALL BE IN THE HELICOPTER DURING ALL OPERATIONS

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NOTICE PAGE

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ORGANIZATION DESIGNATION AUTHORIZATION (ODA)

APPROVED

DATE

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3/21/19

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GENERAL INFORMATION

ORGANIZATION

This Flight Manual is divided into five sections and an appendix:

| | |
|------------|---|
| Section 1 | LIMITATIONS |
| Section 2 | NORMAL PROCEDURES |
| Section 3 | EMERGENCY AND MALFUNCTION PROCEDURES |
| Section 4 | PERFORMANCE |
| Section 5 | WEIGHT AND BALANCE |
| Appendix A | OPTIONAL EQUIPMENT SUPPLEMENTS |

Section 1 through Section 4 contain FAA approved data necessary to operate helicopter in a safe and efficient manner.

Section 5 contains weight and balance data necessary for flight planning.

Appendix A contains a list of FAA approved supplements for optional equipment, which shall be used in conjunction with basic Flight Manual when respective optional equipment kits are installed.

The Manufacturer's Data manual (BHT-212-MD-1) contains information to be used in conjunction with the Flight Manual. The Manufacturer's Data manual is divided into four sections:

| | |
|-----------|------------------------|
| Section 1 | SYSTEMS DESCRIPTION |
| Section 2 | HANDLING AND SERVICING |
| Section 3 | CONVERSION TABLES |
| Section 4 | EXPANDED PERFORMANCE |

TERMINOLOGY

WARNINGS, CAUTIONS, AND NOTES

Warnings, cautions, and notes are used throughout this manual to emphasize important and critical instructions and are used as follows:

WARNING

AN OPERATING PROCEDURE, PRACTICE, ETC., WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN PERSONAL INJURY OR LOSS OF LIFE.

CAUTION

AN OPERATING PROCEDURE, PRACTICE, ETC., WHICH, IF NOT STRICTLY OBSERVED, COULD RESULT IN DAMAGE TO OR DESTRUCTION OF EQUIPMENT.

NOTE

An operating procedure, condition, etc., which is essential to highlight.

USE OF PROCEDURAL WORDS

Procedural word usage and intended meaning, which has been adhered to in preparing this manual, is as follows:

SHALL and **MUST** have been used only when application of a procedure is mandatory.

SHOULD has been used only when application of a procedure is recommended.

MAY and NEED NOT have been used only when application of a procedure is optional.

WILL has been used only to indicate futurity, never to indicate a mandatory procedure.

ABBREVIATIONS AND ACRONYMS

Abbreviations and acronyms used throughout this manual are defined as follows:

| | | | | | |
|-----------|---|---------------------------------|--------------------------------|---|---------------------------|
| AC | — | Alternating Current | FT | — | Foot, Feet |
| AGL | — | Above Ground Level | FWD | — | Forward |
| ALT | — | Altitude | GAS PROD RPM (N ₁) | — | Gas Producer RPM |
| ALTN | — | Alternate | GEN | — | Generator |
| AMP(S) | — | Ampere(s) | GOV | — | Governor |
| ANTI COLL | — | Anticollision | GW | — | Gross Weight |
| BLWR | — | Blower | H _D | — | Density Altitude |
| C | — | Celsius | H _P | — | Pressure Altitude |
| CAS | — | Calibrated Airspeed | HTR | — | Heater |
| C BOX | — | Combining Gearbox | HV | — | Height-Velocity |
| CG | — | Center of Gravity | HYDR SYS | — | Hydraulic System |
| COND | — | Conditioner | IAS | — | Indicated Airspeed |
| DC | — | Direct Current | ICS | — | Intercommunication System |
| DECR | — | Decrease | IGE | — | In Ground Effect |
| DEG | — | Degree(s) | IGN | — | Ignition |
| ELT | — | Emergency Locator Transmitter | IN | — | Inch(es) |
| ENG | — | Engine | INCR | — | Increase |
| EXT | — | Extinguisher | INTCON | — | Interconnect |
| F | — | Fahrenheit | INV | — | Inverter |
| FAA | — | Federal Aviation Administration | ITT | — | Interturbine Temperature |
| FAIL | — | Failure | KCAS | — | Knots Calibrated Airspeed |
| FDR | — | Flight Data Recorder | KG | — | Kilogram(s) |
| FS | — | Fuselage Station | KIAS | — | Knots Indicated Airspeed |
| | | | KTAS | — | Knots True Airspeed |
| | | | LB | — | Pound(s) |
| | | | LT | — | Light |
| | | | M | — | Meter(s) |
| | | | MAN | — | Manual |
| | | | MAX | — | Maximum |
| | | | MIN | — | Minimum, Minute(s) |
| | | | MM | — | Millimeter(s) |
| | | | N ₁ | — | Gas Producer RPM |

| | | | | | |
|----------------------|---|---------------------------------|-------------------------|---|--|
| N₂ | — | Power Turbine RPM | RPM | — | Revolutions per Minute |
| NAV | — | Navigation | SEL | — | Selection |
| NON ESS | — | Non Essential | SYS | — | System |
| NORM | — | Normal | TEMP | — | Temperature |
| N_R | — | Rotor RPM | TEMP CONT | — | Temperature Control |
| OAT | — | Outside Air Temperature | VAC | — | Volts Alternating Current |
| OEI | — | One Engine Inoperative | V_{CAL} | — | Calibrated Airspeed |
| OGE | — | Out of Ground Effect | VDC | — | Volts Direct Current |
| OVHT | — | Overheating | VFR | — | Visual Flight Rules |
| OVRD | — | Override | V_{NE} | — | Never Exceed Speed |
| PART SEP | — | Particle Separator | V_{TOCS} | — | Takeoff Climbout Speed |
| PRESS | — | Pressure | WARN | — | Warning |
| PRI | — | Primary | WAT | — | Weight Altitude Temperature |
| PSI | — | Pound(s) per Square Inch | XFEED | — | Crossfeed |
| PWR | — | Power | XMSN | — | Transmission |
| QTY | — | Quantity | | | |
| REL | — | Release | | | |
| ROTOR BK | — | Rotor Brake | | | |

