

# R44 CADET

## PILOT'S OPERATING HANDBOOK

### AND APPROVED ROTORCRAFT FLIGHT MANUAL FOR ROTORCRAFT REGISTERED IN BRAZIL

THIS AIRCRAFT FLIGHT MANUAL IS APPROVED BY THE FAA ON BEHALF OF THE "AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL" FOR BRAZILIAN REGISTERED AIRCRAFT, IN ACCORDANCE WITH THE "REGULAMENTO BRASILEIRO DE AVIAÇÃO CIVIL" – RBAC 21, SECTION 21.29.

HELICOPTER SERIAL NO. \_\_\_\_\_

HELICOPTER REGISTRATION NO. \_\_\_\_\_

SECTIONS 2, 3, 4, 5, AND 9

APPROVED BY:



MANAGER, WEST FLIGHT TEST SECTION, AIR-716  
FEDERAL AVIATION ADMINISTRATION  
LOS ANGELES, CA

DATE:

*August 29, 2017*

THIS ROTORCRAFT SHALL BE OPERATED IN ACCORDANCE WITH THE LIMITATIONS AND INSTRUCTIONS HEREIN ESTABLISHED.

**ROBINSON HELICOPTER COMPANY  
TORRANCE, CALIFORNIA**


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**FAA APPROVED  
R44, R44 II, & R44 CADET  
PILOT'S OPERATING HANDBOOK**

**BRAZILIAN SUPPLEMENT**

This supplement together with the Brazil-specific cover page (replacing the standard cover page) must be included in the FAA-approved Robinson R44, R44 II, and R44 Cadet Pilot's Operating Handbook for Brazilian-registered aircraft.

The information contained herein supplements or supersedes the basic manual only in those areas listed in this supplement. For limitations, procedures, and performance information not contained in this supplement, consult the basic R44, R44 II, and R44 Cadet Pilot's Operating Handbook.

APPROVED BY:   
MANAGER, WEST FLIGHT TEST SECTION, AIR-716  
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DATE: August 29, 2017

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**SECTION 1: GENERAL**      No Change

**SECTION 2: LIMITATIONS**

**PLACARDS**

On both sides of vertical tail and tailcone:

PERIGO

(Danger)

On all doors, inside and out (R44 and R44 II) only:  
On front doors inside and out, and outside rear doors  
(R44 Cadet only):

ABRIR

(Open)

TRAVAR

(Latch)

Near lock on rear cabin doors:

EMPURRE PARA TRAVAR  
NÃO TRAVE EM VOO

(Push to lock  
Do not lock in flight)

**SECTION 2: LIMITATIONS (Cont'd)**

**PLACARDS (Cont'd)**

Inside each under-seat compartment (R44 and R44 II only):

|  |
|--|
| <p style="text-align: center;"><b>CUIDADO</b></p> <p><b>NÃO EXCEDA OS SEGUINTEs LIMITES:</b></p> <ul style="list-style-type: none"><li>● <b>CARGA NO BAGAGEIRO: 23 KG (50 LB).</b></li><li>● <b>CARGA COMBINADA ASSENTO E BAGAGEIRO: 136 KG (300 LB).</b></li><li>● <b>PESO MÁXIMO DO HELICÓPTERO.</b></li></ul> <p><b>PARA INSTRUÇÕES ADICIONAIS DE CARREGAMENTO CONSULTE O MANUAL DE VOO.</b></p> <p><b>EVITE COLOCAR OBJETOS NO BAGAGEIRO QUE POSSAM FERIR O OCUPANTE EM CASO DE POUSO FORÇADO.</b></p> |
|--|

(Caution

Do not exceed any of the following:

- **Compartment Capacity: 50 lbs max**
- **Combined seat plus compartment: 300 lbs max**
- **Rotorcraft gross weight limit**

See rotorcraft flight manual for additional loading instructions. Avoid placing objects in compartment which could injure occupant if seat collapses during hard landing.)

**SECTION 2: LIMITATIONS (Cont'd)**

**PLACARDS (Cont'd)**

Inside each under-seat compartment (R44 Cadet only):

|  |
|--|
| <p style="text-align: center;"><b>CUIDADO</b></p> <p><b>NÃO EXCEDA OS SEGUINTEs LIMITES:</b></p> <ul style="list-style-type: none"><li>● <b>CARGA NO BAGAGEIRO: 23 KG (50 LB).</b></li><li>● <b>CARGA COMBINADA ASSENTO E BAGAGEIRO:<br/>136 KG (300 LB).</b></li></ul> <p><b>PARA INSTRUÇÕES ADICIONAIS DE CARREGAMENTO<br/>CONSULTE O MANUAL DE VOO.</b></p> |
|--|

(Caution

Do not exceed any of the following:

- **Compartment Capacity: 50 lbs max**
- **Combined seat plus compartment: 300 lbs max**

See rotorcraft flight manual for additional loading instructions.

**SECTION 2: LIMITATIONS (Cont'd)**

**PLACARDS (Cont'd)**

Above rear deck (R44 Cadet only):

|  |
|--|
| <p>NÃO OCUPAR<br/>CUIDADO<br/>ASSEGURE QUE TODOS OS ITENS ESTEJAM<br/>DEVIDAMENTE ACONDICIONADOS<br/>LIMITE DE CARGA 23 KG (50 LB) CADA LADO</p> |
|--|

(Caution

Do not occupy

No items permitted on deck unless  
secured by an approved restraint system  
Deck load limit 23 kg each side)

|   |
|---|
| <p>LIMITE DE CARGA DO<br/>COMPARTIMENTO 23 KG (50 LB)</p> |
|---|

(Maximum compartment load 23 kg)

**SECTION 2: LIMITATIONS (Cont'd)**

**PLACARDS (Cont'd)**

On center panel forward of rear cabin:

|                          |
|--------------------------|
| PERIGO<br>ROTOR DE CAUDA |
|--------------------------|

(Danger  
Tail Rotor)

On left forward cabin floor:

|  |
|--|
| PERIGO<br>ROTOR DE CAUDA<br>E<br>GASES QUENTES |
|--|

(Danger  
Tail Rotor  
and  
Hot Exhaust)

**SECTION 2: LIMITATIONS (Cont'd)**

**PLACARDS (Cont'd)**

Located near main fuel tank filler cap:

COMBUSTÍVEL  
GASOLINA DE AVIAÇÃO MIN 100 OCT.

(Fuel  
100 Oct Min Grade Aviation Gasoline)

Located near aux fuel tank filler cap:

COMBUSTÍVEL AUXILIAR  
GASOLINA DE AVIAÇÃO MIN 100 OCT.  
PARA GARANTIR O ABASTECIMENTO COMPLETO  
DE COMBUSTÍVEL, COMPLETE O PRIMEIRO  
TANQUE OUTRA VEZ APÓS TER COMPLETADO  
O SEGUNDO TANQUE

(Aux Fuel  
100 Oct Min Grade Aviation Gasoline  
to ensure full fuel:  
Fill the left tank first and  
top off after filling aux tank)

Located on fuel caps:

CUIDADO: ALINHE AS LISTRAS

(Caution: Align stripes)

**SECTION 2: LIMITATIONS (Cont'd)**

**PLACARDS (Cont'd)**

Located on horizontal firewall right side:

NÃO PISE

(No Step)

Located on forward horizontal firewall right side:

PISE AQUI

(Step here)

Located on main rotor hub:

NIVELE AQUI

(Level here)

Located on upper surface of forward tailcone:

SUPERFÍCIE DE NIVELAMENTO  
NIVELE AQUI = AERONAVE 0.7° NARIZ P/ CIMA

(Leveling surface  
Level Here = Aircraft 0.7° nose up)

Located on engine cooling panel:

EMPURRE PARA ABRIR

(Push to open)

Near each collective stick:

NÃO COLOQUE OBJETOS  
MANTENHA O LOCAL LIVRE

(No stowage  
Keep area clear)

**SECTION 2: LIMITATIONS (Cont'd)**

**PLACARDS (Cont'd)**

In clear view of all occupants:

NÃO FUMAR

(No smoking)

Located on aux fuel tank aft panel:

FLUÍDO HIDRÁULICO E ÓLEO DA CAIXA DE  
TRANSMISSÃO  
COMPLETE ATÉ O CENTRO DO INICADOR  
DE NÍVEL DO RESERVATÓRIO HIDRÁULICO  
COM FLUÍDO A257-15  
COMPLETE ATÉ O CENTRO DO INDICADOR  
DE NÍVEL DAS CAIXAS DE  
TRANSMISSÃO PRINCIPAL E DA CAUDA COM  
ÓLEO A257-2

(Hydraulic fluid and gearbox oil  
fill hydraulic reservoir to center of sight glass  
with A257-15 fluid  
Fill main and tail gearbox to center  
of sight glasses with A257-2 oil)

Located on underside of each main rotor blade tip:

NÃO PUXE A PÁ PARA BAIXO  
LEVANTE A PÁ OPOSTA

(Never pull down  
Push up opposite blade)

Located on tail rotor guard:

NÃO SEGURE AQUI

(No hand hold)

**SECTION 2: LIMITATIONS (Cont'd)**

**PLACARDS (Cont'd)**

Located on aft battery enclosure:

**CUIDADO  
INSTALE APENAS BATERIAS SELADAS  
QUE NÃO REQUEIRAM MANUTENÇÃO**

(Caution  
Install only sealed  
maintenance-free battery)

Located near charging terminals below instrument console on right side (forward battery only):

**SOMENTE PARA CARGA DA BATERIA**

(For charging only)

Located on engine cooling panels (R44 II only):

**CUIDADO  
ESTE MOTOR REQUER VELA  
CURTA (1/2 POLEGADA)**

(Caution  
This engine requires short  
reach (1/2 inch) spark plugs)

Located on keyboard (E.N.G. configuration only):

**RECOLHA DURANTE O TÁXI,  
DECOLAGEM E POUSO**

(Stow during taxi,  
takeoff, and landing)

SECTION 2: LIMITATIONS (Cont'd)

PLACARDS (Cont'd)

Located inside aft right cowl door (Police & E.N.G. configurations only):

|  |
|--|
| TERMINAIS PARA CARGA DA<br>BATERIA SOMENTE<br>NÃO USE PARA PARTIDA ASSISTIDA |
|--|

(Terminals for charging battery only  
Do no jump start)

Located on FLIR controller (Police configuration only):

|  |                        |
|--|------------------------|
| RECOLHA DURANTE O TÁXI,<br>DECOLAGEM E POUSO | LASER NOT<br>INSTALLED |
|--|------------------------|

(Stow during taxi,  
takeoff and landing)

(Laser not  
installed)

Located on cylinder under forward left seat (pop-out floats configuration only):

| TAE<br>(°C) | PRESSÃO DE CARGA<br>MÍNIMA (PSIG) |
|-------------|-----------------------------------|
| -20         | 4200                              |
| 0           | 4500                              |
| 20          | 4800                              |
| 40          | 5100                              |

|              |                                   |
|--------------|-----------------------------------|
| (OAT<br>(°C) | Minimum charge<br>Pressure (psig) |
| -20          | 4200                              |
| 0            | 4500                              |
| 20           | 4800                              |
| 40           | 5100)                             |

**SECTION 3: EMERGENCY PROCEDURES** No change.

**SECTION 4: NORMAL PROCEDURES** No change.

**SECTION 5: PERFORMANCE** No change.

**SECTION 6: WEIGHT AND BALANCE** No change.

**SECTION 7: SYSTEM DESCRIPTION** No change.

**SECTION 8: HANDLING, SERVICING AND MAINTENANCE**  
No change.

**SECTION 9: SUPPLEMENTS**

The following supplements are approved by the FAA on behalf of the Agência Nacional de Aviação Civil (ANAC) for Brazilian registered aircraft, in accordance with the Regulamento Brasileiro da Aviação Civil (RBAC) 21, Section 21.29.

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