

Airglas, Inc.
**INSTALLATION, MAINTENANCE AND INSTRUCTIONS FOR CONTINUED
AIRWORTHINESS (ICA) MANUAL LF2600-R44-105**

**INSTALLATION, MAINTENANCE
AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (ICA)
for
LF2600-R44
Composite Floor Board
Installation in Robinson R44 Series Rotorcraft**



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AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA approved and specifies maintenance required under §§43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

No additional airworthiness limitations apply.

LOG OF REVISIONS

Revision	Pages Affected	Description	FAA Approved	Date
A	6	Populated weight and balance chart.		

Distribution of Changes

A current copy of this manual will be available on the **Airglas, Inc.**®
web-site available for download.

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1.0 Specifications:

The LF2600-R44 is an all composite floor board/scuff plate kit for installation in the cabin of the Robinson R44series rotorcraft. The kit contains a five (5) floor panels; one for the pilots' position, two for the co-pilots position, and one each for the left and right aft passenger positions:

The pilot position part number is LF2600-R44-2

The co-pilot position part number is LF2600-R44-1 if left hand rudder pedals are installed.

The co-pilot position part number is LF2600-R44-1A if left hand rudder pedals are removed.

The left rear position part number is LF2600-R44-3.

The right rear position part number is LF2600-R44-4.

2.0 Limitations:

There are no additional limitations to the rotorcraft with the LF2600-R44 installed.

3.0 Airplane Installation Eligibility

The LF2600-R44 is approved for installation in Robinson Helicopter Company models R44 and R44II.

4.0 Required Equipment:

- a) #3 Phillips screwdriver
- b) Denatured alcohol
- c) Clean painters rags
- d) Hole saw
- e) Die grinder
- f) 4" paint roller

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5.0 Initial Installation:

1.	Referencing figure 1-7 of Robinson Helicopter R44 Illustrated Parts Catalog, remove carpet and scuff plates from each location (items: 2, 3, 12, 13, 14, 15, 16, 17, 18, 19,20, 21, 22, 23, 24, 33, 34, 35 if equipped) . Record weight and location of each carpet, scuff plate, and hardware.
2.	Wipe any loose dust and dirt from the floor panels using denatured alcohol and clean painters rags.
3.	If the operator desires the PTT switch on the co-pilot floor to be enabled, remove the circular protrusion on the LF2600-R44-1 or -1A floor board using a hole-saw and or die grinder. Smooth rough edges with 220 grit sand paper. Remove any dust from the floor board.
4.	Refer to Airglas Inc. drawing no. LF2600-R44, place each floor board in the aircraft and confirm fit of each.
5.	If fit is acceptable, remove the backing from the Velcro from each of the floor boards and install each floor board in the appropriate position.
6.	Check flight controls for interference with floor boards. If flight controls contact floor boards, reposition floor boards.
7.	Apply gentle pressure to each floor board along the Velcro areas using a 4” wide paint roller.
8.	Allow the floor boards to remain installed for a minimum of 24 hours at room temperature before removing.
9.	Revise rotorcraft weight and balance and equipment list.
10.	Prepare and file FAA form 337. Record installation in rotorcraft maintenance records.

6.0 Removal:

1.	Remove the floor boards by gently lifting a corner and pulling the floorboard away from the Velcro. Remove floor panel from the rotorcraft.
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7.0 Re-installation:

1.	Clean the Velcro strips of any fuzz or debris. Replace missing Velcro with p/n 90197 or 90198 2” x 10” strips or 2” x 4” strips in accordance with LF2600-R44 Process Spec sheet 4 of 6.
2.	Install the floor board in the rotorcraft at the appropriate location (Ref: Installation drawing no. LF2600-R44).

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7.0 Re-installation-Continued:

3.	Check flight controls for interference with floor boards. If flight controls contact floor boards, reposition floor boards.
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8.0 Weight and Balance:

Weight of installed components.

Component	Weight (lbs.)	Longitudinal CG, inches	Lateral CG, inches (+=right side)
LF2600-R44-1	1.375	20.6	-15.5
LF2600-R44-1A	1.58	20.1	-16
LF2600-R44-2	1.44	20.1	15.5
LF2600-R44-3	1.4	54.35	-14.5
LF2600-R44-4	1.4	54.35	14.5

9.0 Scheduled Inspection:

At each annual or 100 hour inspection, or when damage occurs; inspect as follows:

- a) Installation inspection: Remove the floor boards and inspect all aluminum mounting surfaces for possible corrosion. If corrosion is detected, treat and/or repair in accordance with AC43.13-1B or the Robinson Model R44 Maintenance Manual.
- b) Composite floorboard inspection: Inspect the floorboard for cracks, gouges, scrapes or punctures. Scrapes and gouges are permitted. Cracks less than 2” long are permitted. Punctures less than 1” diameter are allowed. For any damage that exceeds these limits, either replace the floorboard with a serviceable floorboard or contact the manufacturer for proper repair procedures.
- c) Velcro inspection: Clean the Velcro strips of any fuzz or debris. Inspect hooks and loops for damage. Replace loose, damaged, or missing Velcro with p/n 90197 or 90198 2” x 10” strips or 2” x 4” strips in accordance with LF2600-R44 Process Spec sheet 4 of 6.

Definitions:

Scratch- Damages the painted surface that does not penetrate thru the paint.

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9.0 Scheduled Inspection- Continued:

Scrape- Penetrates the paint but does not disturb or break the fiber material.

Gouge- Damages the fiber material but is not detected on the back side.

Puncture- Damages the fiber material and is detectable on the back side.

--END--