

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

**INSTALLATION, MAINTENANCE
AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (ICA)
for
LRSCE-R44
Rear Seat Cargo Extension
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 |
|-----------------|-----------------------|--|---------------------|-------------------|
| Original | All | Original Manual | July 24, 2014 | November 25, 2013 |
| Rev A | 4,5,6 | Corrected typo ins section 3 title. Corrected typo in section 9. | | November 6, 2014 |
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Distribution of Changes

A current copy of this manual will be available on the **Airglas, Inc.**®

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1.0 Specifications:

The ***Airglas Inc. ®, LRSCE-R44*** rear seat cargo extension(s) is comprised of a fiberglass board secured to the aft seat support frame with Velcro. The cargo extensions allow the carriage of bulkier objects without the risk of wear and damage to the seat upholstery. The cargo extensions fold when not in use and can be stowed in the baggage compartment under the rear seats.

2.0 Limitations:

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

3.0 Rotorcraft Installation Eligibility

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

4.0 Required Equipment:

- a) Denatured alcohol
- b) Clean painters rags
- c) 4” paint roller

5.0 Initial Installation:

| | |
|----|---|
| 1. | Referencing figure 1-5 of Robinson Helicopter R44 Illustrated Parts Catalog, tilt the aft seat bottoms (P/N C928-1) forward. |
| 2. | Referencing the Airglas, Inc. drawing number LRSCE-R44 sheet 1 of 2, wipe any loose dust and dirt from the aft seat support installation upper rims using denatured alcohol and clean painter’s rags. |
| 3. | Apply four each 17” lengths of P/N 90197 hook side Velcro (item number 4) to the fore and aft rims of the aft seat support. Allow the Velcro to overlap on the inside of the rim. Trim as necessary to clear fit the corners. |
| 4. | Apply gentle pressure along the Velcro using a 4” wide paint roller. |
| 5. | Refer to Airglas Inc. drawing no. LRSCE-R44 sheet 1 of 2, place each rear seat cargo extension in the rotorcraft and confirm fit of each. |

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5.0 Initial Installation:-Continued-

| | |
|----|---|
| 6. | Allow the rear seat cargo extensions to remain installed for a minimum of 24 hours at room temperature before removing. |
| 7. | Revise rotorcraft weight and balance and equipment list. |
| 8. | Place the Airglas, Inc. Rotorcraft Flight Manual Supplement for LRSCE-R44 in the FAA Approved Rotorcraft Flight Manual |
| 9. | Prepare and file FAA form 337. Record installation in rotorcraft maintenance records. |

6.0 Removal:

| | |
|----|--|
| 1. | Remove the rear seat cargo extensions by gently lifting a corner and pulling the cargo extension away from the Velcro. Remove cargo extension from the rotorcraft. |
| 2. | Place the rear seat cargo extension in the under-seat cargo area. |

7.0 Re-installation:

| | |
|----|---|
| 1. | Clean the Velcro strips of any fuzz or debris. Replace missing Velcro with p/n 90197 or 90198 strips in accordance with drawing no. LRSCE-R44 sheet 2 of 2. |
| 2. | Install the LRSCE-R44 in the rotorcraft at the appropriate location (Ref: Installation drawing no. LF2600-R44). |

8.0 Weight and Balance:

| LRSCE-R44 Weight (each) | Baggage Longitudinal CG | Baggage Lateral CG |
|------------------------------------|--|-------------------------------|
| 4.2 lbs. | 79.5 | 12.2* |

9.0 Scheduled Inspection:

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

- a) Rear Seat Cargo Extension inspection: Inspect the rear seat cargo extensions for scratches cracks, gouges, scrapes or punctures.

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9.0 Scheduled Inspection:-Continued-

- b) Scratches and scrapes are permitted. For any damage that exceeds these limits, replace the rear seat cargo extension with a serviceable extension.
- 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 strips in accordance with drawing no. LRSCE-R44 sheet 2 of 2.

Definitions:

Scratch- Damages the gelcoat surface but does not penetrate thru the gelcoat.

Scrape- Penetrates the gelcoat 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.

Note:

Cracks in the gelcoat are not structural, and the cargo extension may remain in service.

10.0 Repairs:

- a) Due to the small size and construction of the rear seat cargo extensions, repairs are limited to replacement of components. Refer to Airglas, Inc. drawing no. LRSCE-R44 sheet 2 of 2 for parts identification and replacement.

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