

**FAA APPROVED
ROTORCRAFT FLIGHT MANUAL SUPPLEMENT
FOR THE NOSE UTILITY MOUNT (AF-R44-1)**

ROBINSON HELICOPTER MODEL R44/R44II AND R66

REGISTRATION #: _____ SERIAL #: _____

The information in this supplement is FAA approved material and must be attached to the FAA Approved Robinson R44/R44II and R66 Rotorcraft Flight Manual when the rotorcraft has been modified by the installation of Airfilm AF-R44-1 Utility Mount System in accordance with STC **SR02660LA**

The information contained herein supplements or supersedes the information in the basic Rotorcraft Flight Manual only in those areas listed herein. For Limitations, Procedures and Performance information not contained in this Supplement, consult the basic Rotorcraft Flight Manual.

FAA APPROVED: _____



for Manager, West Flight Test Section, AIR-716
Federal Aviation Administration
Los Angeles, CA

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LOG OF PAGES

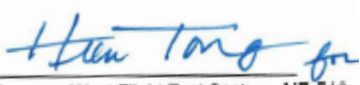
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SECTION 1: GENERAL INFORMATION

NOSE UTILITY MOUNT INFORMATION

The Nose Utility Mount (AF-R44-1) attaches to the nose of the Robinson R44/R44II and R66 helicopter to provide a means for attaching external payload up to 50 lbs. Typical payloads could include but are not limited to: cameras, sensors, and searchlights. The nose utility mount attaches at the position of the landing light cover located at FS 2.36/WL 42.0/BL 0.0

Searchlight/camera/sensor payloads are attached either direct or with the use of DT-1-1 and DT-1-11 (dovetail).

The mount is approved for VFR Operations.



Figure 1. R44 Nose Utility Mount installation

SECTION 2: LIMITATIONS

AIRSPPEED LIMITS

AIRSPPEED LIMITS FOR UTILITY MOUNT

- Reduce the published VNE by 10 KIAS with a payload installed on the Nose Utility Mount having a total frontal area of 0.7 ft² or less.
- Reduce the published VNE by 30 KIAS with a payload installed on the Nose Utility Mount having a total frontal area of .71 ft² to 1.5 ft².
- No airspeed reduction with only the Utility Mount installed.

KINDS OF OPERATION LIMITATIONS

NOSE UTILITY MOUNT LIMITATIONS

The payload limited to a maximum allowable frontal area of 1.5 ft². and a weight of 50 lbs.

If the payload obscures the landing light beam, or produces reflections in the cockpit, and an alternate landing light sources are not installed or nonfunctional, the aircraft is restricted to day VFR conditions only.

SECTION 2: LIMITATIONS (cont'd)

PLACARDS

In clear view and readable by pilot in flight:

**WITH A PAYLOAD INSTALLED ON THE NOSE UTILITY
MOUNT REDUCE THE PUBLISHED VNE BY:**

10 KIAS when payload frontal area of .7 ft² or less.

30 KIAS when payload frontal area of .71 ft² to 1.5 ft².

SECTION 3: EMERGENCY PROCEDURES

No change from the basic Rotorcraft Flight Manual.

SECTION 4: NORMAL PROCEDURES

DAILY OR PREFLIGHT CHECKS

12a. Nose Utility Mount:

Nose Utility Mount & payload hardware ... Check security

Nose Structure around Mount.....Check for signs of
stress, distortion,
fatigue cracking
or other damage

SECTION 5: PERFORMANCE

- Hover Performance – No Change
- Climb Performance – 75 ft/min reduction

SECTION 6: WEIGHT & BALANCE

The Nose Mount payload CG Locations are:

DESCRIPTION	Weight (lbs)	STATION (in)	BL (in)
Nose Utility Mount Payload (50 Max)	Use Actual Payload	2.36	0.0
DT-1-1 Dovetail (Optional)	2.4	2.36	0.0

The maximum weight of an external payload on the nose mount is 50 pounds.

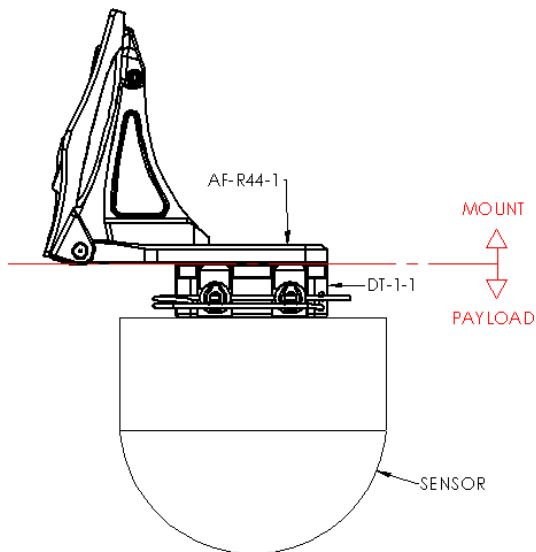


Figure 2 Utility Mount Payload Depiction

CAUTION

The longitudinal CG can be easily exceeded with a nose mounted payload attached. Check weight & balance prior to each flight