Please check web site at www.onboardsystems.com for the latest revision of this manual

FAA APPROVED

ROTORCRAFT FLIGHT MANUAL SUPPLEMENT

Onboard Systems
E-51 Load Weigh System

MD Helicopter Models
369D, 369E, 369F, 369FF, 369HE,
369HM, 369HS, 500N, 600N

R/N _____ S/N _____

FAA Approved: _____
Manager, Seattle Aircraft Certification Office

Date:

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PART I
GENERAL

This supplement must be attached to the appropriate FAA approved MD Helicopters' Rotorcraft Flight Manual when an Onboard Systems P/N 200-034-00, 200-034-01 or 200-034-02 Load Weigh System is installed in accordance with Supplemental Type Certificate (STC) No. SH4908NM.

The information contained herein supplements or supersedes the basic manual only in those areas listed herein. For limitations, procedures and performance information not contained in this supplement consult the basic Rotorcraft Flight Manual and the "Cargo Hook Kit" MD Helicopter Rotorcraft Flight Manual Supplement.

The Load Weigh System is a compliment to the helicopter lifting system. Its purpose is to display the weight of the load carried on the cargo hook. The Load Weigh System consists of three components: the cockpit mounted load indicator, the internal electrical harness and the load cell. The load cell is installed between the rotorcraft hard point and a cargo hook (not included with this kit).

PART II
LIMITATIONS

Operation

The basic Rotorcraft Flight Manual and "Cargo Hook Kit" Rotorcraft Flight Manual Supplement – issued by MD Helicopters remain applicable.

With a load attached to the cargo hook, operation shall be conducted in accordance with the respective national operational requirements. For U.S. operators FAR Part 133 is applicable.

The load weigh indicator shall be operated in accordance with Section 3 of Owner's Manual 120-017-00.

Load Rating

The Load Weigh System rated load is 2,500 lbs. (1,134 kg).

Consult the MD Helicopter Flight Manual Supplement for your particular helicopter model for external load and structural limitations.

Placards

The following placards pertaining to the load weigh system are included.

Mounted adjacent to the Onboard Systems load indicator:

TURN THE WEIGHING SYSTEM OFF WHEN NAVIGATION EQUIPMENT IN USE. NO AIRCRAFT OPERATION SHOULD BE PREDICATED ON THE READING OF THE ONBOARD WEIGHING SYSTEM.

Mounted adjacent to both the load weigh system power switch and circuit breaker:

ELECTRONIC WEIGHING SYSTEM

PART III
EMERGENCY PROCEDURES

The basic Rotorcraft Flight Manual and "Cargo Hook Kit" Rotorcraft Flight Manual Supplement – issued by MD Helicopters remain applicable.

PART IV
NORMAL PROCEDURES

IV.1 Daily or Pre-Flight Check

Prior to use of the Load Weigh System perform the following procedures. If the procedures are not successful do not use the equipment until the problem has been corrected.

IV.1.1 Exterior Check

1. Inspect the electrical connector for damage.

2. Swing the load cell (and cargo hook) to its full extremes to verify that it does not reach the limit of its electrical harness range of motion.

IV.1.2 Interior Check

1. Power on the hook Load Indicator and allow it to warm up for 5 minutes (with no load on the hook). Press both Indicator buttons at the same time to go to the setup mode. Scroll through the menu until the symbol "0 in" is displayed, then press the right button. Remove any weight that is not to be zeroed out and press either button to complete the procedure.

PART V
PERFORMANCE

The basic Flight Manual and "Cargo Hook Kit" Flight Manual Supplement issued by MD Helicopters remain applicable.

The Load Weigh System is designed and installed as a means of monitoring the load (weight) suspended from the cargo hook. Functional and performance characteristics have not been determined on the basis of the load cell indication or display. Therefore, this instrument shall **NOT** be used as a primary indication of performance and flight operation must **NOT** be predicated on its use.