

SCHWEIZER MODEL 269C SERIES HELICOPTERS
CSP-C-1C

SCHWEIZER AIRCRAFT CORP.

Supplement to the Do-Approved
Rotorcraft Flight Manual

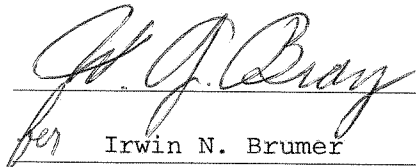
And Installation Instructions For
300C Model 269C Helicopters

(See Page 2 for Serial Number Effectivity)

**ROTORCRAFT COMBINATION DISPERSAL AG KIT
(WET OR DRY CHEMICAL)**

Part No. 269A4153

Reissue #1 Approved By:



for Irwin N. Brumer

Manager, ANE-170
New York Aircraft Certification Office

Date of Original Approval: 07 Oct 1971

Date of Reissue Approval: 21 Sep 1988

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APPROVED
SUPPLEMENT TO THE ROTORCRAFT FLIGHT
MANUAL AND INSTALLATION INSTRUCTIONS
ROTORCRAFT COMBINATION DISPERSAL AG KIT
(WET OR DRY CHEMICAL)
PART NUMBER 269A4153
FOR
300C MODEL 269C HELICOPTERS

LIST OF MODELS AFFECTED
269C Helicopter S/N 0059 and Subsequent or Aircraft
S/N 0004 thru 0058 having HTC Kit P/N M10059 installed.

LOG OF PAGES

PAGE	DATE	PAGE	DATE
1	21 Sep 1988	8	21 Sep 1988
2	21 Sep 1988	9	21 Sep 1988
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5	21 Sep 1988	12	21 Sep 1988
6	21 Sep 1988	13	21 Sep 1988
7	21 Sep 1988	14	21 Sep 1988

NOTE

The change bar (█) defines the latest FAA Approved changes.

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CONFIGURATION TABLE

Number Change	Date	Description
	Issued 07 Oct 1971 Reissued 21 Sep 1988	As noted per HTC-AD Drawing No. 269A4153 Updated to reformat

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INTRODUCTION

This Supplement must be attached to the Approved Rotorcraft Flight Manual when wet or dry chemical dispensing system is installed. Except as modified by this Rotorcraft Flight Manual Supplement, operation in compliance with Section I of the basic approved Rotorcraft Flight Manual is mandatory. Other sections of the RFM or addendum are recommended procedures.

SECTION I

LIMITATIONS

Approved for operations under the provisions of FAR 137 for day operation only.

1. Maximum gross weight
 - a. Takeoff gross weight is 2150 pounds in restricted category (configuration "c")
 - b. Landing gross weight is 2050 pounds.

Note: Landing gear and support structure not structurally substantiated for operation above 2050 pounds. Cross beams must be inspected following landing above 2050 pounds.

2. The never exceed speed V_{NE} is 72 mph IAS at sea level and up to 7000 feet pressure altitude. Above 7000 feet reduce V_{NE} 8 mph per 1000 feet of altitude.
3. Maximum sideward flight speed is 20 mph.
4. Dispensing of liquids or solids in sideward or rearward flight is prohibited.
5. Maximum load is 340 pounds per dispersal tank.

SECTION II

PROCEDURES

1. When dispensing dry material if increasing displacement of the cyclic is required for hovering or forward flight, an immediate landing should be made and the loading situation investigated.

Note: When adjusting dry dispensing impellers for swath width check for clearance with drag strut when landing gear is fully extended.

2. Care should be exercised on takeoff so as not to strike spray booms.

SECTION III

PERFORMANCE

1. Indicated airspeed (IAS) corrected for position and instrument error equals calibrated airspeed (CAS). See Figure 3-1, Airspeed Calibration Curve.
2. No other performance data are available for the rotorcraft with the wet/dry ag equipment installed.

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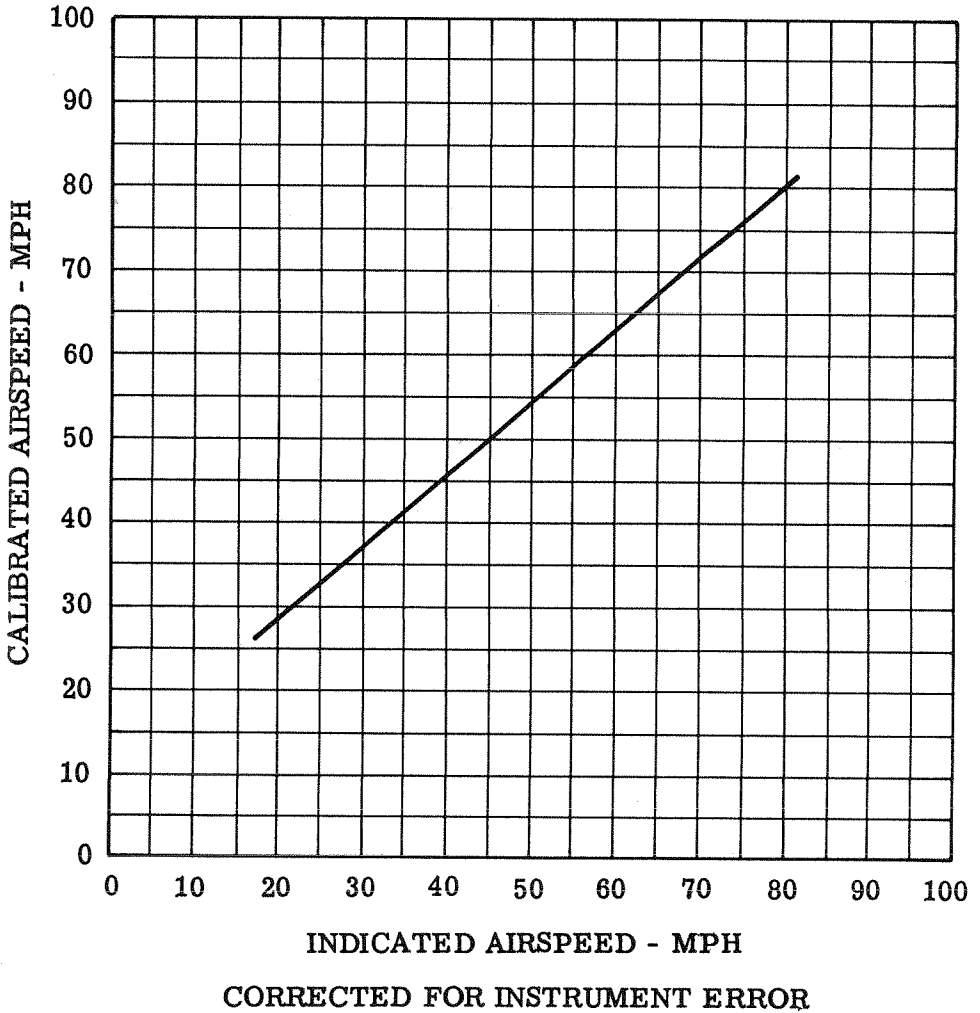


Figure 3-1. Airspeed Calibration Curve

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SECTION IV

WEIGHT AND LOADING

1. The following information can be used in conjunction with the helicopter Owner's Manual to determine helicopter weight and center of gravity.

Item	Weight	Arm
Wet configuration, removable portion	123.3	106.8
Dry configuration, removable portion	89.1	103.6
Provisions remaining on aircraft (Normal Category)	12.2	96.6
Dispersal tank load		100.5

SECTION V

INSTALLATION INSTRUCTIONS

The information contained in this section is for installation and removal of wet or dry dispensing systems and for conversion from Normal Category to Restricted operation and return to Normal.

Note: It is suggested for configuration "a" or "b" operation that application for license in multiple category (Normal and Restricted) be made through the appropriate local office of FAA at time of initial installation.

1. Initial installation of the 269A4153 Wet or Dry Dispersal System to be made in accordance with "Installation Instructions". It is recommended that only the following items remain on the helicopter other than Ag operation.
 - a. Step Rail Assemblies (including Destaco Clamps)
 - b. P.T.O. Assembly
 - c. Eye Bolt Assembly with Extension and Extension Adapter
 - d. Pressure Gage
 - e. Clutch Control Cable
 - f. Electrical Harness and Switches

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2. Installation and removal procedures for Wet and Dry Dispersal Systems are as follows:

WET INSTALLATION

- a. Position tanks on Step Rails, secure with Destaco Clamps, and secure tanks to helicopter at upper tank mount bracket with pip pins.
- b. Position Wet Center Section Assembly on Step Rails, secure with Destaco Clamps, and safety wire clamps.
- c. Attach Cross Feed Assembly to spray tanks by inserting Throat Adapters into tank throats, secure with existng Destaco Clamps, and safety wire clamps.
- d. Attach Clutch Control Cable to clutch arm.
- e. Place Drive Belt on P.T.O.
- f. Connect three (3) electric plugs (Pressure Sender, Valve Motor, and emergency Dump Motor). Check that plugs are secure.
- g. Inspect Installation.

Note: Check electric switches to assure that they activate motors.

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WET REMOVAL

- a. Reverse steps a through g of installation.

DRY INSTALLATION

- a. Position tanks on Step Rails, secure with Destaco Clamps and secure tanks to helicopter at upper tank bracket with pip pins.
- b. Position Dry Center Section on Step Rails, secure with Destaco Clamps, and safety wire clamps.
- c. Insert Left Dry Throat in tank, align punch marks on throat and tank outlet, secure with Destaco Clamps, and safety wire clamps.
- d. Connect electric plug to motor. Check that plug is secure.
- e. Using switch make sure Butterfly Valve is closed and in this position insert Right Dry Throat in tank.
- f. Rotate right throat to left until Butterfly Valve is closed and secure with clamps.

Note: Activate Butterfly Valve and visually check both valves for proper closing. If valves are not closed, repeat step f.

- g. Place Drive Belt from gearbox to impellers and Drive Belt from lower drive coupling to gearbox.

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DRY REMOVAL

- a. Remove Drive Belt from Drive coupling.
- b. Remove Dry Center Section by releasing Destaco Clamps on Step Rails.

Note: This will allow belt to impellers to slack, then remove.

- c. Disconnect electric plug.
 - d. Leaving Valve Linkage Tube attached, remove right and left throats by releasing Destaco Clamps.
 - e. Release Destaco Clamps on tanks, pip pins in upper tank bracket, and remove tanks.
3. To return helicopter to operations other than agricultural, remove wet or dry Dispersal System in accordance with removal instructions above and proceed with following steps.
- a. Cap Electric Plugs and tape loose ends to cross beam.
 - b. Tape Eye Bolt Extension and Linkage to helicopter frame.
 - c. Close aft Destaco Clamps on Step Rails and secure clamps with safety wire.
 - d. Inspect helicopter and installation.

CAUTION

POSSIBLE DETERIORATION OF RUBBER PARTS CAN OCCUR WHEN CERTAIN OIL BASE DISPERSANTS AND CHEMICALS ARE USED; THIS DETERIORATION CAN, BUT NOT NECESSARILY, BE RAPID. THOROUGH INSPECTION OF THE SYSTEM CAN PREVENT POSSIBLE DAMAGE.

4. Make Log Book entry and sign after each conversion is made from Restricted to Normal Category or Normal to Restricted.

Inspection and Log Book entry can be made and signed by licensed pilot when converting from Normal to Restricted Category. Licensed mechanic has to make inspection and Log Entry when converting from Restricted to Normal Category.

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