

Supplement No. AFSP-V2-005

**FAA APPROVED  
ROTORCRAFT FLIGHT MANUAL  
SUPPLEMENT  
TO THE  
AIRBUS HELICOPTER AS 350 & AS 355  
SERIES  
ROTORCRAFT FLIGHT MANUAL  
WHEN EQUIPPED WITH THE  
AFSP-V2 UTILITY MOUNT**

REGISTRATION #: \_\_\_\_\_ SERIAL #: \_\_\_\_\_


The information in this supplement is FAA approved and must be attached to the appropriate FAA Approved Airbus Helicopters Model AS 350 & AS 355 Series Rotorcraft Flight Manual when the Airfilm Model AFSP-V2 Utility Mount is installed in accordance with:

**STC No. SR01785LA**

The information contained in this document supplements or supersedes the basic manual only in those areas listed herein. For limitations, emergency procedures, normal procedures, and performance information not contained in this supplement, consult the basic FAA Approved Rotorcraft Flight Manual.

FAA APPROVED

*Acting*


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

FAA DATE:

*March 8, 2018*  
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### LOG OF REVISIONS

Rev	Page	Date	Description	FAA Approval
N/C	1-6	8 Mar 2018	Installation of AFSP-V2 UTILITY MOUNT	 <i>Helen Tong</i> Acting Manager, West Flight Test Section, AIR-716 Federal Aviation Administration Los Angeles, CA  Date: <u>3/8/2018</u>

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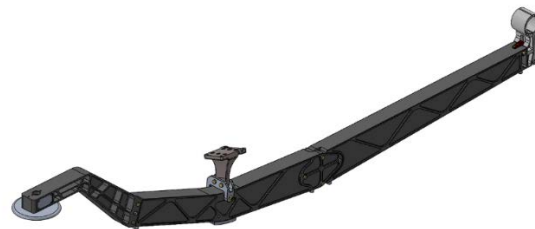
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## SECTION I GENERAL

The Airfilm AFSP-V2 Utility Mount consists of assembled billet machined aluminum beam assembly that attach bottom of the helicopter and provides a Sensor Mount near aircraft nose. The AFSP-V2 Single Pole Utility Mount can be attached on either the right or left hand side of the helicopter.



**Figure 1 – AFSP-V2 Utility Mount Single Pole Configuration, Left Hand Shown**



**Figure 2 – AFSP-V2 Utility Mount Dual Pole Configuration, AF200 Yoke Shown for Reference**

The payload may be installed and removed by the pilot when the payload uses the Airfilm “dovetail” or “QDD” mounts. This optional mount requires no tools for the installation of the payload.

## **SECTION 2    LIMITATIONS**

### **Operations**

- The pilot is prohibited from operating the camera or sensor system.

### **Weight & Size**

#### Single Pole Configuration

- The camera package is limited to a maximum allowable frontal area of 2.6 sq. ft., and a weight of 175 lbs.

#### Dual Pole Configuration

- The camera package is limited to a maximum allowable frontal area of 7.1 sq. ft., and a weight of 215 lbs.

### **Airspeed**

#### Single Pole Configuration

- Reduce the published  $V_{NE}$  by 15 KIAS with a payload installed on the mount.
- No airspeed reduction with the AFSP-V2 Pole Mount only, T Brackets Only, or Slotted Belly Panel installed.

#### Dual Pole Configuration

- Reduce the published  $V_{NE}$  by 25 KIAS with a payload installed on the mount.
- No airspeed reduction with the AFSP-V2 Dual Pole Mount only, T Brackets Only, or Slotted Belly Panel installed.

## **Wire Skid-Slip Indicator**

Whenever the dual single mount is installed on the helicopter the external wire skid-slip indicator must be stowed or removed.

## **Placards**

Dual Pole Configuration

The pitot heat must remain **OFF** and/or the circuit breaker pulled with the auxiliary pitot tube installed.

## **SECTION 3 EMERGENCY**

No change

## **SECTION 4 NORMAL PROCEDURES**

### **EXTERIOR CHECK**

Prior to the first flight each day the pilot shall visually inspect the following:

- All mount hardware and attachment points for cracks, damage and security.
- All payloads and attachment points for damage and security.

## **ENGINE STARTING**

Dual Pole Configuration Only

[PITOT] .....OFF at all times, **PITOT**

## **SECTION 5 PERFORMANCE**

- Hover performance - no change
- Climb performance – Reduce published climb performance by 250 ft/min when payload is installed.

## SECTION 6 WEIGHT & BALANCE

### The AFSP-V2 Utility Mount Single Pole Weights and Stations

<b>AFSP-V2 (SINGLE POLE) WEIGHT AND STATIONS</b>			
<b>FOR CAMERA / SENSOR SYSTEMS</b>			
<b>AS350 &amp; AS355 ALL SERIES</b>			
ITEM DESCRIPTION	WEIGHT	LONGITUDINAL	LATERAL
	LBS	ARM INCHES	ARM INCHES
NOSE LOCATION - LONG ARM - USE PAYLOAD WEIGHT (MAX 175 LBS)*		0.1	21.3
NOSE LOCATION - SHORT ARM - USE PAYLOAD WEIGHT (MAX 175 LBS)*		4.7	21.3
QUICK DISCONNECT DEVICE (SELECT ONE OF THE FOLLOWING)			
DT-1-1	2.4	0.1 or 4.7	21.3
QDD-1-1	5.0	0.1 or 4.7	21.3
COUNTER WEIGHT LOCATION - BOX EMPTY (PN A125) - <b>IF INSTALLED</b>	21.6	260.0	20.0
COUNTER WEIGHT LOCATION - (150 MAX LBS)*		260.0	20.0
*USE ACTUAL WEIGHT OF INSTALLED EQUIPMENT			

### The AFSP-V2 Utility Mount Dual Pole Weights and Stations

<b>AFSP-V2 (DUAL POLE) WEIGHT AND STATIONS</b>			
<b>FOR CAMERA / SENSOR SYSTEMS</b>			
<b>AS350 &amp; AS355 ALL SERIES</b>			
ITEM DESCRIPTION	WEIGHT	LONGITUDINAL	LATERAL
	LBS	ARM INCHES	ARM INCHES
NOSE LOCATION - USE PAYLOAD WEIGHT (MAX 215 LBS)*		-16.7	0.0
QUICK DISCONNECT DEVICE (SELECT ONE OF THE FOLLOWING)			
DT-1-1	2.4	0.1 or 4.7	0.0
QDD-1-1	5.0	0.1 or 4.7	0.0
COUNTER WEIGHT LOCATION - BOX EMPTY (PN A125) - <b>IF INSTALLED</b>	21.6	260.0	20.0
COUNTER WEIGHT LOCATION - (150 MAX LBS)*		260.0	20.0
*USE ACTUAL WEIGHT OF INSTALLED EQUIPMENT			