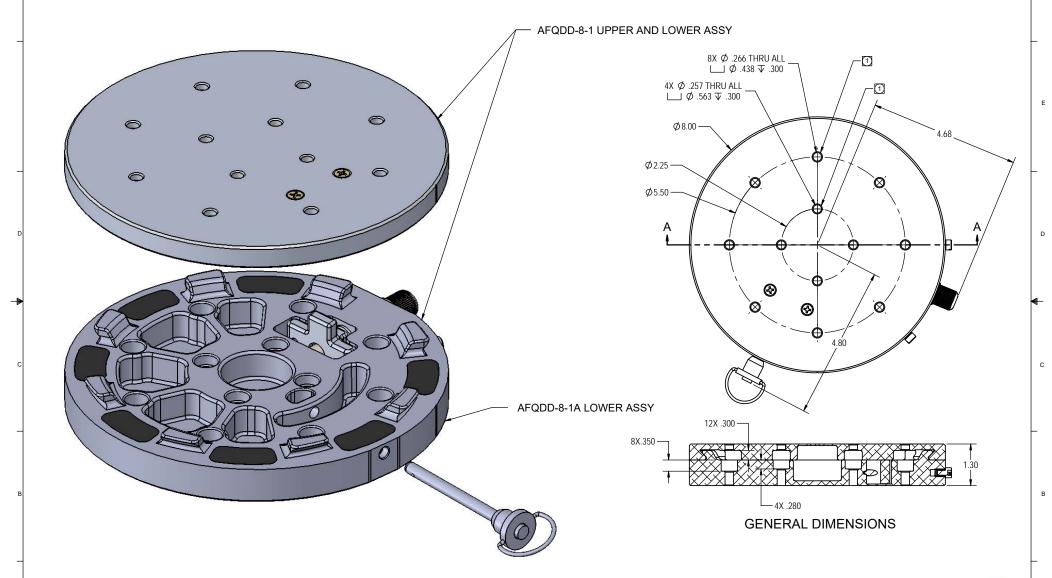
REVISIONS ITEM PART NO. DESCRIPTION REV DESCRIPTION DATE 1 AFQDD-8-1 UPPER AND LOWER ASSEMBLY NC INITIAL RELEASE 03/14/2017 2 AFQDD-8-1A LOWER ASSEMBLY ADDED DIAMETER AND HEIGHT DIMESIONS 03/21/2017 ADDED MS20004-(X) AS ALT INSTALLATION HARDWARE 06/08/2017



## NOTES:

LOWER QDD HOLE PATTERN TYP TO UPPER QDD (UPPER SHOWN). REFER TO SECTION VIEW FOR COUNTERBORE DEPTH DIMENSIONS. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

.X ± .1 .XX ± .03 .XXX ± .010 ANGULAR: ± .5\*

DRAWN

CHECKED

APPROVED

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**DRAWING** 

NAME

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### Airfilm Camera Systems www.airfilm.com Georgetown CA



# **QDD-8 GENERAL INFO**

SIZE	DWG. NO.			REV
С		AFQDD_8		В
		DO NOT COM E DEMANNO	CUEET 4 OF 2	

BREAK ALL SHARP EDGES

DATE

03/14/2017

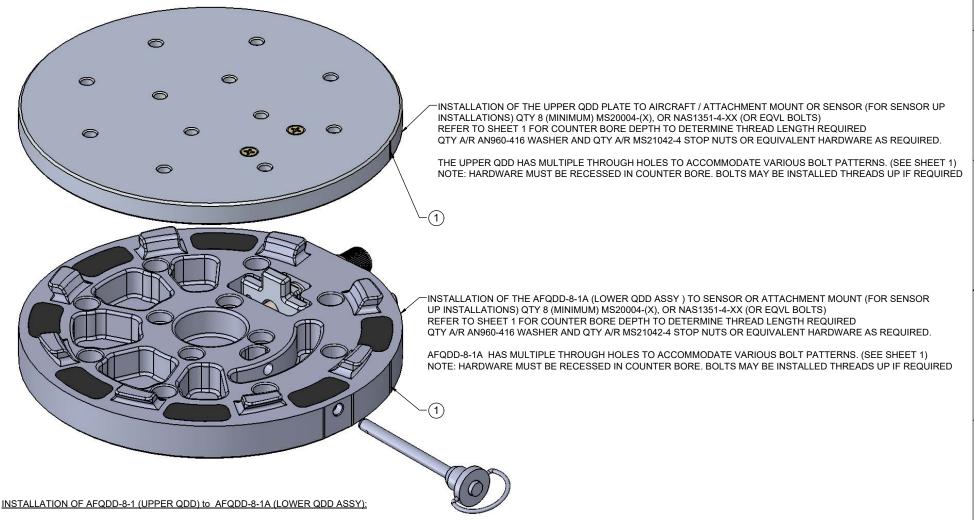
03/14/2017

03/14/2017

THE AFQDD-8-1 ASSEMBLY IS A MECHANICAL INTERFACE TO ACCOMMODATE THE RAPID INSTALLATION / REMOVAL OF VARIOUS PAYLOADS. IT IS TO BE USED FOR PAYLOADS WITH A MAXIMUM WEIGHT OF 130LBS, AND IS MOST EFFECTIVE FOR VERTICAL LOADING APPLICATIONS, SUCH AS UAV AND OTHER CLOSE FITTING INSTALLATIONS. EXAMPLES OF OTHER INSTALLATIONS INCLUDE: FIXED WING AIRCRAFT, ROTORCRAFT, AIRSHIPS, GROUND AND WATER BASED VEHICLES.

# LIMITATIONS:

- INSTALLED ON AIRCRAFT WITH VNE OF 425KTS OR LESS.
- DESIGN PAYLOAD WEIGHT: 130 LBS (CALL FOR MAX ALLOWABLES).
- LIMIT DRAG MOMENT: 28,300 IN-LBS
- SAFETY PIN MUST BE INSTALLED AND LOCKED PRIOR TO FLIGHT.
- AFQDD-8-1 WEIGHT 4.5 LBS (2.04 Kg)



- ALIGN THE UPPER AND LOWER PARTS
- VERTICALLY ATTACH LOWER ASSY BY RISING INTO MATING CONNECTION AND TURNING CLOCKWISE APROX 30 DEG. (ENSURE ALIGNMENT MARKS ARE IN LINE 1)
- INSTALL QUICK-PIN (ENSURE PIN IS FULLY ENGAGED AND LOCKED) DO NOT HAMMER OR FORCE PIN
- HAND TIGHTEN DRIVE KNOB (QDD-8-40) CLOCKWISE TO LOCK AND SECURE -
  - 1/4 HEX KEY DRIVE SOCKET PROVIDED FOR SETTING TORQUE (50 IN LBS MAX) -DO NOT OVER TORQUE
  - A SAFETY WIRE HOLE IS PROVIDED IN DRIVE KNOB IF ADDITIONAL SECURITY IS REQUIRED
- ENSURE NO FREE PLAY EXISTS

