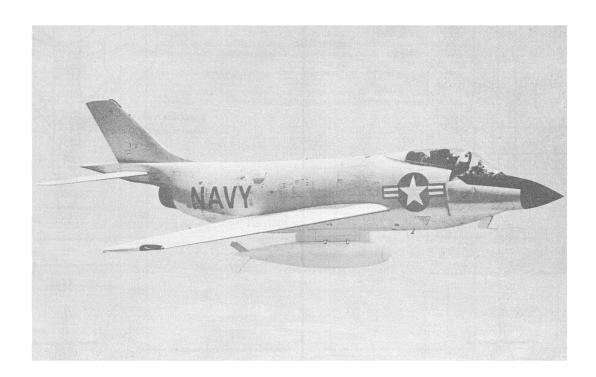
CONFIDENTIAL SERVICE



STANDARD AIRCRAFT CHARACTERISTICS

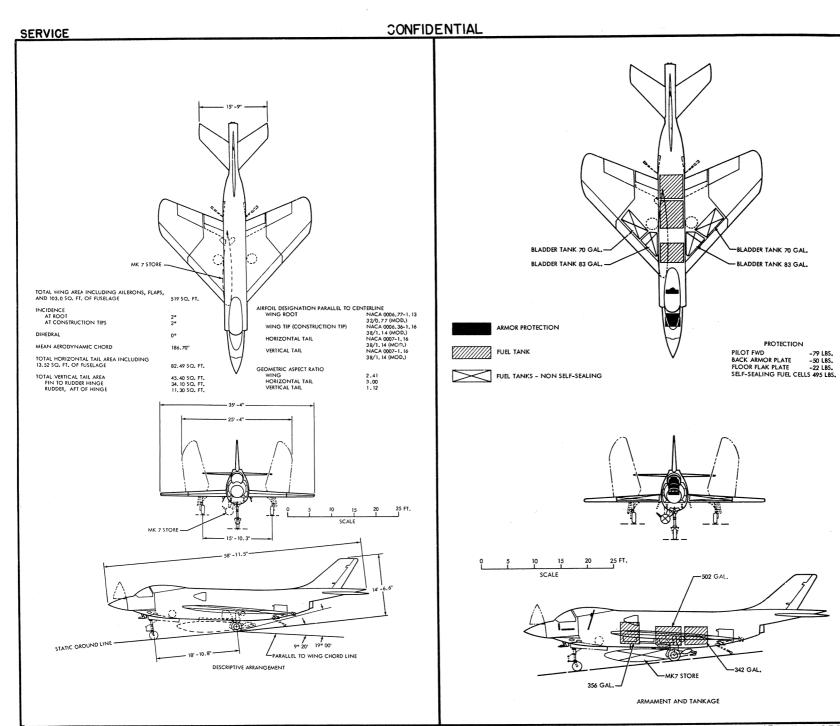
F3H-2N "DEMON"

Mc DONNELL

dard Afromaft Characteristics NAVAER 1335A (RE

15 JUNE 1956

F3H-2N



POWER PLANT

 NO. & MODEL
 (1) J71-A-2

 MFR.
 Allison

 TYPE.
 Axial flow

 LENGTH INCLUDING A.B.
 287"

 HEIGHT
 42"

 DIAMETER.
 43"

 AUGMENTATION
 Afterburner

RATINGS

 MAXIMUM
 LBS. RPM. 6,100...S.S.L.
 ALT.

 MILITARY
 10,200...6,100...S.S.L.

 NORMAL
 8,800...6,100...S.S.L.

SPEC NO. 361-B

ORDNANCE

NO. SIZE LOCATION
A 20mm Nose

RDS.

FIRE CONTROL

1-AFCS Mk-16 Mod 9 with
Gyro and MK-32 Converter

1-AN-N-6A Gun Camera

1-Mk-7 Special Store 1-Mk-91 Special Store 1-Mk-12 Special Store 2-Aero 7A Douglas Ejector Rack on fuselage

6-Aero 15A rocket launchers on wing -500 capacity each Aero 18 Control (LAB System) T-208 Store Control System

MISSION AND DESCRIPTION

The McDonnell F3H-2N airplane is a single place, swept wing, all weather fighter, designed for either land or carrier based operations.

The F3H-2N is fitted with tricycle landing gear, catapult and arresting gear, and folding wing panels. Equipment includes an automatic pilot, ejection seat, and pressurized cockpit. It is fitted with power actuated leading edge slats, trailing edge plain flaps, and fuselage mounted speed brakes. The primary centrol system incorporates power actuation with artificial feel forces. Provisions are included for obtaining moderate control forces during emergency operation.

An auxiliary power unit may be carried externally to provide for engine starting when operating from advance bases.

DEVELOPMENT

First Flight......January 1955
Service Use.....December 1955

WEIGHTS

ALL WEIGHTS ARE ESTIMATED

FUEL AND OIL

NO. TANKS

3 1200 Fuselage
4 306 Wings

FUEL GRADE...........JP-4
FUEL SPEC....Applicable MIL-F-5624

OII

DIMENSIONS

ELECTRONICS

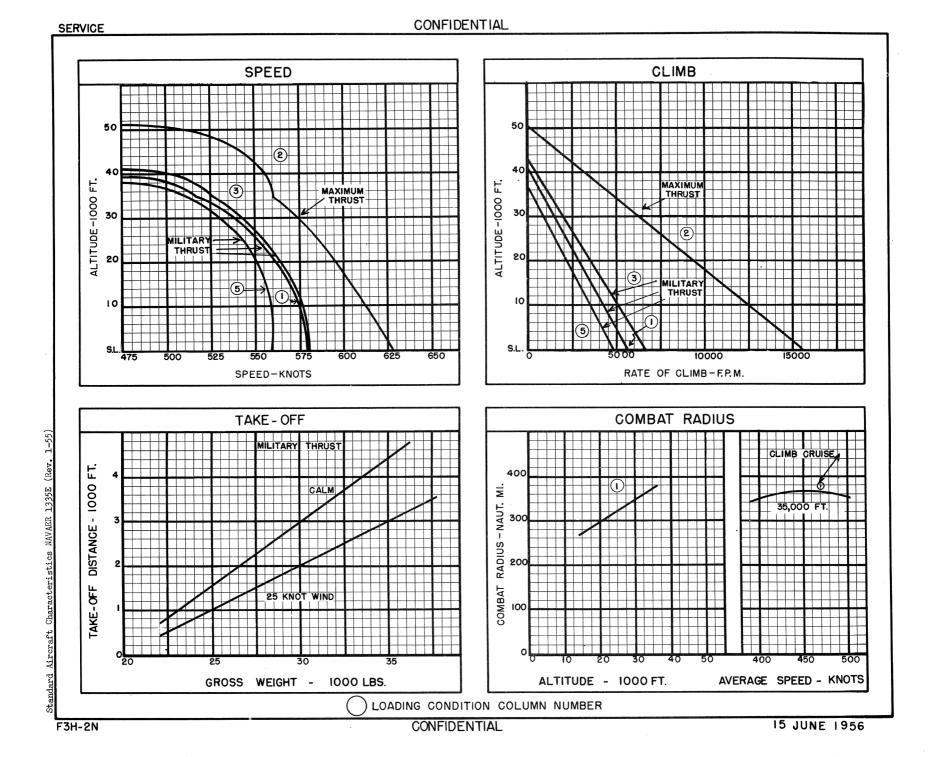
NOTES

A) Milit	ary rated	thrust.	,																			
·		 0-11-		-		-	-	-	-	-	-	-	- ,	-	-	-	-	-	-	-	-	-
ERFURMAN	E BASIS:	Calcula	ttions.																			
ANGE AND	RADIUS ar	e based	on eng	ine spe	cific	ation	fue	l cor	sump	tion	inc	- reas	ed b	y 5%.		_	-	-		-	-	•
EASON FO	REISSUE:		corporate					ormar	- ice d	ata (on b	- asic	air	- plan	e pl	us i	- ncorp	ora	- tion	of	-	
POTTING:	A total						_ lated	in a	lar	ding	spo	t on	the	fli	ght	and	- hanga	r d	- ecks	of	-	•

AVAER-1335D (Rev. 1-5

NOTES

		thrust												
				 	 -	-	-	-	-		• •	-	-	
		Calcul	ms.	 	 	_	_	_	_				_	
			engine				sum pt	ion	incr	ease	l by	5%.		

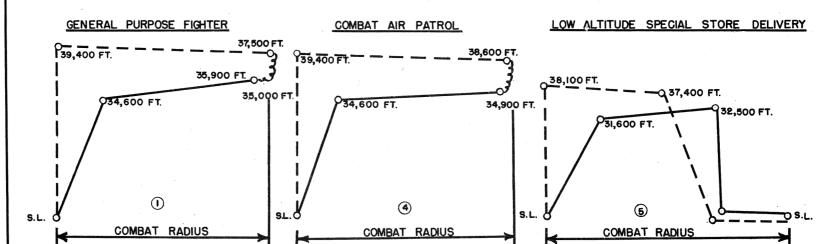


WARM-UP, TAKE-OFF, ACCELERATION: 5 minutes at normal rated thrust at sea level. CLIMB: At military rated thrust to optimum cruise altitude. CRUISE-OUT: At speed for long range at optimum cruise altitudes. COMBAT: Fuel allowance at 35,000 feet for 20 minutes operation, 15 minutes at military rated thrust and 5 minutes at maximum rated thrust (assume combat concluded at initial cruise-back altitude). CRUISE-BACK: At speed for long range at optimum cruise altitudes. RESERVE: 20 minutes at speed for maximum endurance at sea level plus 5% of initial fuel load. COMBAT AIR PATROL WARM-UP, TAKE-OFF, ACCELERATION: 5 minutes at normal rated thrust at sea level. CLIMB: At military rated thrust to optimum cruise altitude. CRUISE: To a point 150 nautical miles from base at optimum cruise altitudes and airspeed for maximum range. LOITER: At speed for maximum endurance at an altitude coinciding with final cruise-out altitude. COMBAT: Fuel allowance at 35,000 feet for 20 minutes operation, 15 minutes at maximum speed with military thrust, 5 minutes at a speed midway between Vmax at military power and Vmax at maximum power (assume combat concluded at initial cruise-back altitude). CRUISE: Back to base 150 nautical miles at optimum cruise altitudes and at airspeed for maximum range. RESERVE: 20 minutes at speed for maximum endurance at sea level plus 5% of initial fuel load. LOW ALTITUDE SPECIAL STORE DELIVERY MISSION WARM-UP, TAKE-OFF, ACCELERATION: 5 minutes at normal rated thrust at sea level. CLIMB: At military rated thrust to optimum cruise altitude. CRUISE-OUT: At speed for long range at optimum cruise altitudes. DESCEND: To sea level. (no fuel used - no distance gained) APPROACH: 50 nautical miles at maximum speed at military rated thrust at sea level. DROP STORE: COMBAT: Fuel allowance at sea level for one minute at maximum rated thrust.

ESCAPE: 50 nautical miles at maximum speed at military rated thrust at sea level.

RESERVE: 20 minutes at speed for maximum endurance at sea level plus 5% of initial fuel load.

CLIMB: At military rated thrust to optimum cruise altitude. CRUISE-BACK: At speed for long range at optimum cruise altitudes.



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F3 H — 2 N

15 JUNE 1956