

XA2J-I

NORTH AMERICAN

DECLASSIFIED

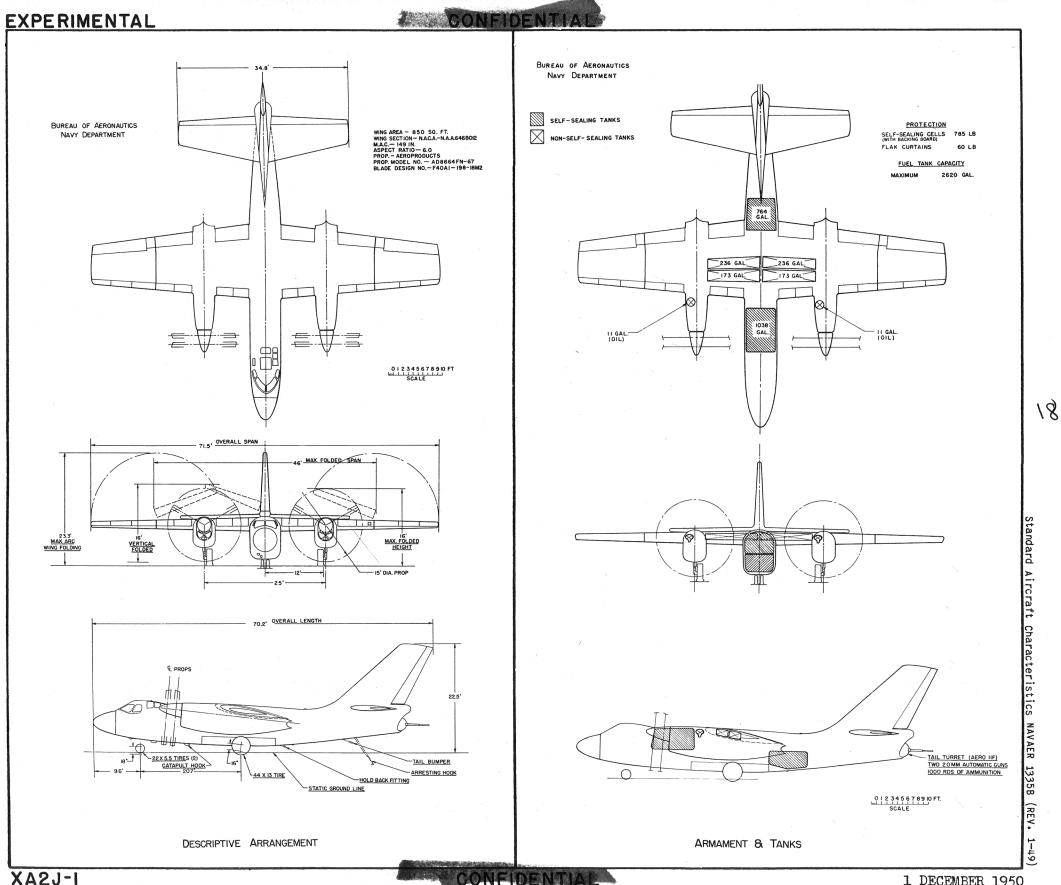
1 DECEMBER 1950

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Standard Aircraft Characteristics NAVAER 1335A



XA2J-I

1 DECEMBER 1950

EXPERIMENTAL

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MISSION AND DESCRIPTION

The primary mission of this airplane is attack.

It is a three-place airplane capable of takeoff with or without catapult aid from the deck of a CVB or CV-34 (modified) aircraft carrier or landing field, and landing in an arresting gear or on a landing field.

Provisions are made for hydraulic folding of wings and tail. Single slotted trailing edge flaps and nose flaps, are fitted.

The horizontal stabilizer is all movable and is the primary longitudinal control.

The controls are operable by the pilot only. Power boost is provided for ailerons, elevators, and rudder.

Equipment for pressurizing, heating, and cooling cabin air is provided.

The fuselage provides for an escape chute in the cabin deck.

Mock-up completed -- September 1949 Two experimental aircraft in early fabrication stage

First flight estimated -- June 1951

	DIME	NSIONS	3	
WING	AREA		sq.	ft.
				6"
	CH			2"
HEIG	IT		221 -	6"
TREAD	D		251 -	0"
M.A.			21 -	5"
PROP	GRD. CL	EAR.		17"

W	EIGHTS	
Loadings	Lbs.	L.F.
	33,495 50,926 43,712 58,000	
ENE	L AND C	200

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Gals.	No.	Tanks	Location
1,802 818		2 4	Fuse.,S.S. Wing
FUEL FUEL	GRAI SPE	DEMI	.100/130 I_F-5572
]	OIL	
CAPACIT GRADE SPEC			

ELECTRONICS
VHF RADIOAN/ARC-1A HOMINGAN/ARR-2A IFFAN/APX-6 RADAR ALTIMETERAN/APN-1 MHF RECEIVERAN/ARR-15 MHF TRANSMITTERAN/ART-13 LF RANGE RECEIVER.R-23/ARC-5 MF AUTO COMPASSAN/ARN-6
To be Service Installed: LF & MF RANGE RECAN/ARN-19 VHF RADIOAN/ARC-27

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MFR PROP. PROP. PROP.	GEAR RAT MFR DES	(2) X IO Aerop .F40A1-1	Allison .0.0638 roducts 98-18M2
	RAT	INGS	
	tings St	Lbs. tatic Sea 1,225	Level
MIL.	5,035	1,225	14,300
NORM.	4,470	1,115	14,000
	SPEC. N	10. 264-1	

POWER PLANT

	GU	INS	
<u>No.</u> 2	<u>Size</u> 20mm	Location Tail Tur.	<u>Rds.</u> 1,000
	BON	MBS	
Type	Size	Location	No.
Bomb	100#	Fuselage	16
Bomb	250#	Fuselage	12
Bomb	500#	Fuselage	12
Bomb	1,000#	Fuselage	8
Bomb	1,600#	Fuselage	4
Bomb	2,000#	Fuselage	4
Torp.			4
Mine	500#	Fuselage	12
Mine	1,000#	Fuselage	8
Mine	2,000#	Fuselage	4
	FIRE	CONTROL	
Bomb	Directo	r SetAN/I	ASB-1
Rada	r (Modif	ied)AN/AI	PS-31
MAX.	BOMB CA	P10,500	lbs.

standard Aircraft Characteristics NAVAER 1335C (REV. $1-\mu9$)

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1 DECEMBER 1950

EXPERIMENTAL

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	PER	FORMANCE SU	MMARY		
2	LOADING CONDITION	(1) ATTACK 8,000 # Bombs		(4) ATTACK 10,500 # Bombs	
2	TAKE-OFF WEIGHT 1bs	58,000		58,000	
	Fuel lbs			13,106	
	Bombs lb:			10,500	
Ó	Wing/Power Loading (A)lbs/sq.ft;lbs/bhj	68.3/-		68.3/-	
	Stall SpeedPower off k			97.3	
ξω	Stall SpeedPower off - No Fuel k			85.6	
	Stall SpeedPower on k	1. 89.0		89.0	
9	Maximum Speed/Alt (B) kn/f	t. 392/24,000		392/24,000	
3×	Take-off Distance, deck calm f	1,190		1,190	
OR 1	Take-off Distance, deck 25 kn. f			645	
Å Å	Take-off Distance, 50 Ft. Height f	t.			
	Rate of climb sea level (B) ft/min	3,260		3,260	
ວັທ	Service Ceiling (B) f			37,600	
ОШ	Time-to-climb 20,000 ft. (B) min			8.4	
	Time-to-climb 30,000 ft. (B) min			16.8	
25	Combat Range/V av (Climb) ft. n.mi/k	1. 1,895/348		1,530/348	
MIL	Combat Radius/V av (A-3) ft. n.mi/k	1. 1.025/3/8		850/348	
	Combat Radius/V av (A-2) n.mi/k	930/348			and a second
NAUTICAL	LOADING CONDITION	(2) COMBAT	(3) COMBAT	(5) COMBAT	(6) COMBA
5 Ĕ	GROSS WEIGHT 1b	43,712	43,712	42,258	42,25
2	Engine power	Military	Normal	Military .	Norma
4	Fuel lbs		9,364	7,864	7,86
2 Z	Bombs/Tanks	None	None	None	Non
N N	Combat Speed/Alt. (A-2) kn/f		365/1,500	391/1,500	365/1,50
	Max. speed at sea level k	n. <u>388</u>	362	388	36
	Max. speed/Alt kn/f		408/30,000	425/30,000	408/30,00
2	Combat speed/Alt (A-3) kn/f		389/39,300	410/39,300	389/39,30
	Rate of climb SL ft/min	5,600	4,735	5,815	4,98
	Ceiling for 500 fpm R/C f	42,300	40,600	43,300	41,30
	Time-to-climb/Alt. min/f	t. 8.1/30,000	9.9/30,000	7.7/30,000	9.4/30,00

NOTES

(A) BHP at Maximum Critical Altitude

(B) Normal BHP

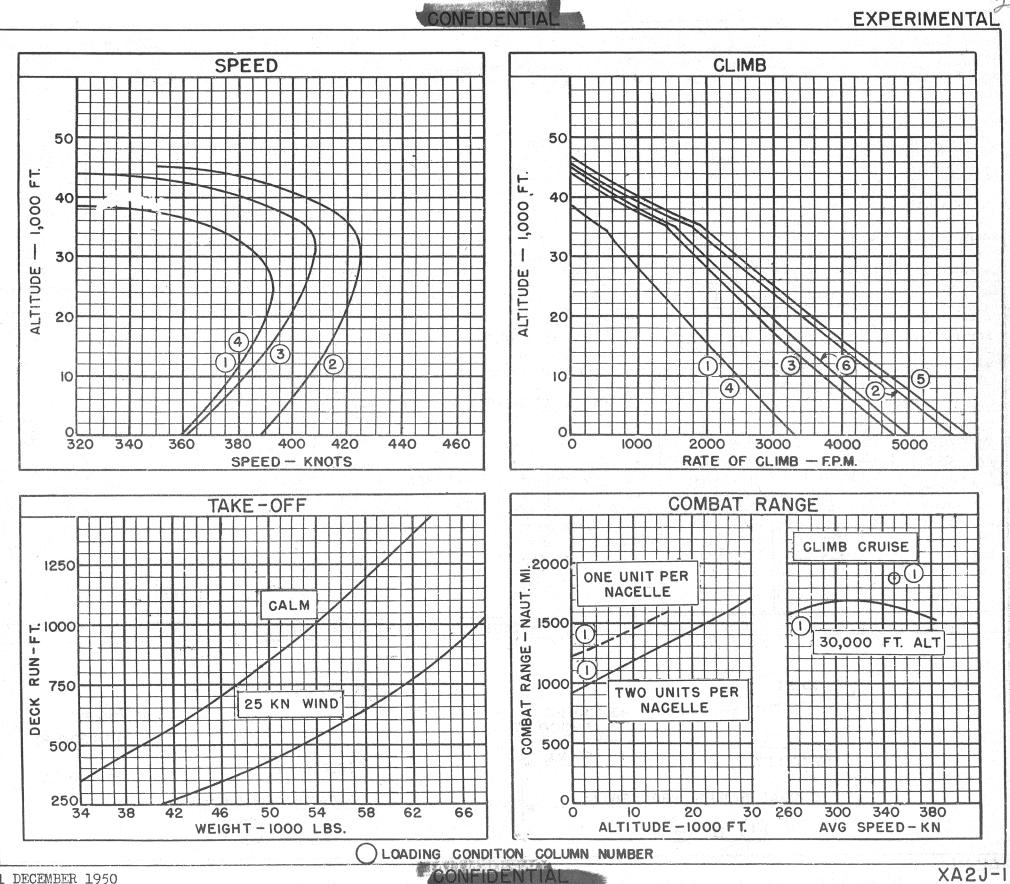
Performance is based on calculations.

Range and radius are based on engine specification fuel consumption data increased by 5%.

-Spotting: 200 ft. length is required to spot 9 airplanes on the 96 ft. wide deck immediately aft of the forward ramp on the CV-9 class carriers.

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Standard Aircraft Characteristics NAVAER 13350 (REV. 1-49)



1 DECEMBER 1950

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(REV. 2-50)

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Characteristics NAVAER

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NOTES

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ATTACK COMBAT RADIUS PROBLEM NO. A-3

	1	itan para tatang ar	ATTACK COMBAT RADIU:	B THOBELER NO. H-J			
WARM-UP TAKE-OFF RENDEZVOUS Fuel for 5 min. static sea level nor. power all engines	CLIMB (A) at max. R/C w/mil. power, to initial cruise-out al (not greater than alt. for 300 ft/min.max R/C, nor. pow	t. 35,000 f alt., no than 100 x. from targ	long- era- t. min. t. less n.mi. CRUISE-OUT at V-long- reach range opera- t. min. 35,000 ft. min. alt.,	<u>COMBAT</u> at 35,000 ft. min. alt. Run-in 50 n.mi. Drop ex- pendable ordnance. Retain ammunition. Run-out 50 n.mi. Max. power avail- able, all engines.	CLIMB (B) At max. R/C w/mil. power to initial cruise-in alt.	CRUISE-IN at V for long-range operation.	RESERVE 10% of initial fuel load.
	COMBAT RAD	IUS = CLIMB (A)	+ TOTAL CRUISE-OUT +	50 N.MI. = 50 N.MI.	+ CLIMB (B) + C	RUISE-IN	0
For Condition	n (1) Combat	Range - Altitu	ide at start of cruise,	, 36,700 ft.; altitud	e at end of cru	ise, 41,900 f [.]	t.
For Condition	n (4) Combat	Range - Altitu	de at start of cruise,	, 36,700 ft.; altitud	e at end of cru	ise, 40,800 f	
			ATTACK COMBAT RADIUS	S PROBLEM NO. A-2		· · · · · · · · · · ·	
WARM-UP TAKE-OFF RENDEZVOUS Fuel for 5 min. static sea level nor. power all engines	CLIMB (A) at max. R/C w/mil. pr., to initial cruise-out alt. (not greater than alt. for 300 ft/min.max. R/C, nor. power)	CRUISE-OUT at V for long-range operation. (State alt. and special engine operations involved.)	DESCEND to 1,500 ft. alt. No fuel used, no distance gained. Drop or fire ex- pendable ordnance. Drop tanks only when empty and state when dropped. US = CLIMB (A) + CRUIS	<u>COMBAT</u> at 1,500 ft. alt, at V max. for 5 min. with mil.pr. plus augmentation if available. (No distance made good)	CLIMB (B) At max. R/C w/mil. pr. to initial cruise-in alt.	CRUISE-IN at V for long-range operation. State alt. and any special eng.opera- tion (alt. not to ex- ceed cruise ceiling.	RESERVE 10% of initial fuel load.
		COMDAT IGADI	$- \frac{1}{1000} - \frac$	SE=OOT = CLIMB(B) + (CRUISE-IN		-
	46,100 FT			46,100	FT.		
			43,400 FT. 39,300 FT.				FT. ,200 FT.
1	36,700	FT.	50 N.MI.	36,7	00 FT.	¢ 1,5	500 FT.
C.	COMB	AT RADIUS, PR	OBLEM A-3	COMBA	AT RADIUS, PROB	LEM A-2	
		(1) & (4)			(1)		
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