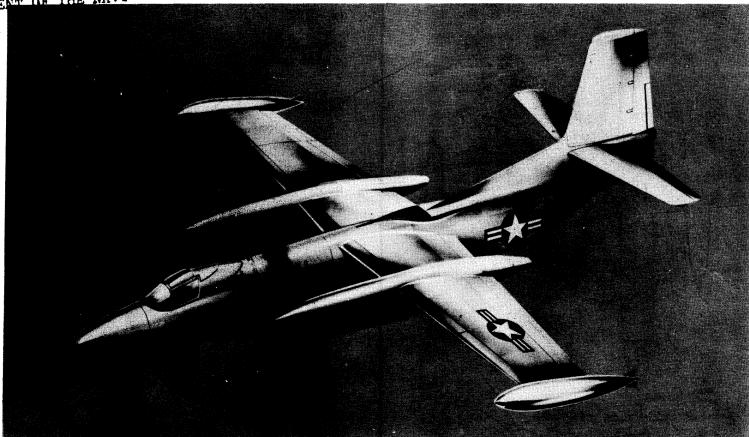
CLASSIFICATION (CANCELED) (CHANGED TO BY AUTHORITY OF ON 8/12/15 19 WALLE SEE (RANK)

(DATE)
NAVAL AIR SYSTEMS COMMAND

DEPARTMENT OF THE NAVY

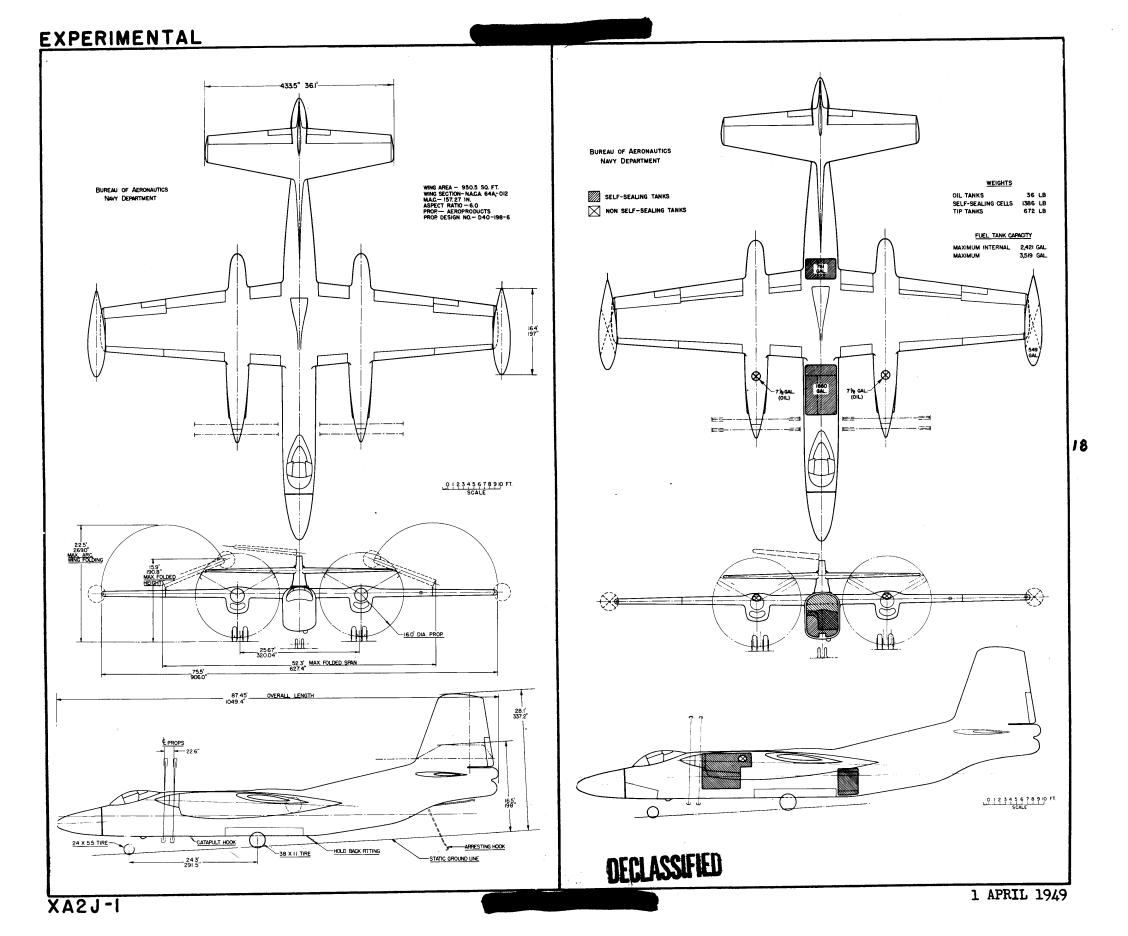


STANDARD AIRCRAFT CHARACTERISTICS

XA2J-I

NORTH AMERICAN

DECLASSIFIED



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 Class aircraft carrier or landing field, and landing in an arresting gear or on a landing field.

Provisions are made for folding outer wing panels and for droppable wing tip tanks. Double slotted trailing edge flaps, and nose flaps, are fitted.

The tail is conventional except provisions are made for folding the vertical tail to decrease storage space.

The fuselage provides for crew, equipment, bombs, and a turbo-jet engine. Pilot's seat only is of the ejection type.

The controls are operable by the pilot only. Power boost is provided for ailerons, elevators, and rudder, but it is possible to fly and land the airplane safely with the boosts inoperative.

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

DIMENSIONS

WING AREA953	l sq. ft.
SPAN	751-6"
LENGTH	87'-5"
HEIGHT	251_\$#
PROP. CLEAR	17"
M.A.C	13'-1"

WEIGHTS

Loadings	Lbs.	L.F.
BASIC DESIGN COMBAT MAX.T.O	37,79238,25057,91253,27271,00055,800	3.0 3.25 2.25

FUEL AND OIL

All weights are estimated.

Gals.	No. Tanks	Location						
1,660	1*	Fuse., Fwd.						
761	1*	Fuse., Aft.						
1,098	2	Wing Tip						
* Self	* Self Sealing							
FUEL GRADE100/130								
FUEL SPECAN-F-48								
OIL								
Į.	J 33	<u>XT40</u>						
CAP.(Ge		15						
GRADE.		M						

SPEC.....AN-0-9 AN-0-3-6

ELECTRONICS

VHF COMM. EQUIP	.AN-ARC-1A
HOMING REC	.AN/ARR-2A
IFF	.AN/APX-6
ALTIMETER	.AN/APN-1
RANGE REC	•AN/ARC-5
HF REC	.AN/ARR-15
HF TRANS	.AN/ART-13

DECLASSIFIED

POWER PLANT

NO. & MODEL(2)	XT40-A-6
	J33-A-12
MFGR	Allison
PROP. GEAR RATIO	
PROP. MFGRAei	roproducts
PROP. DES. NODA	40C1-198-8
NO. BL./DIA	6/16 ft.

RATINGS

All ratings are S. S. L. Shp / Lbs. @ Rpm Allison XT40-A-6 Turbo-Prop: T. O. 5,100 830 13,620 13,620 MIL. 5.100 830 NORM. 4,500 800 13,620 SPEC. NO. 264 Allison J33-A-12 Turbo-Jet: T. 0. (dry) 5.850 11.800 MIL. 5.850 11.800 NORM. 4,800 11,200 SPEC. NO. 275

ORDNANCE

<u>GUNS</u> -	None
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BOMBS

<u> </u>								
Type	Size	Location	No.					
Bomb	100 #	Fuselage	16					
Bomb	250 #	Fuselage	12					
Mine	450 #	Fuselage	12					
Bomb	1,000 #	Fuselage	8					
Bomb	1,600 #	Fuselage	6					
Bomb	2,000 #	Fuselage	4					
Mine	Mk. 25	Fuselage	3					
Mine	Mk. 39	Fuselage	2					
Mine	Mk. 10-8	Fuselage	2					
1		_						
1		NUMBAT						

FIRE CONTROL Bomb Director.....Mk. 5

MAXIMUM BOMB LOAD....12,000#

006

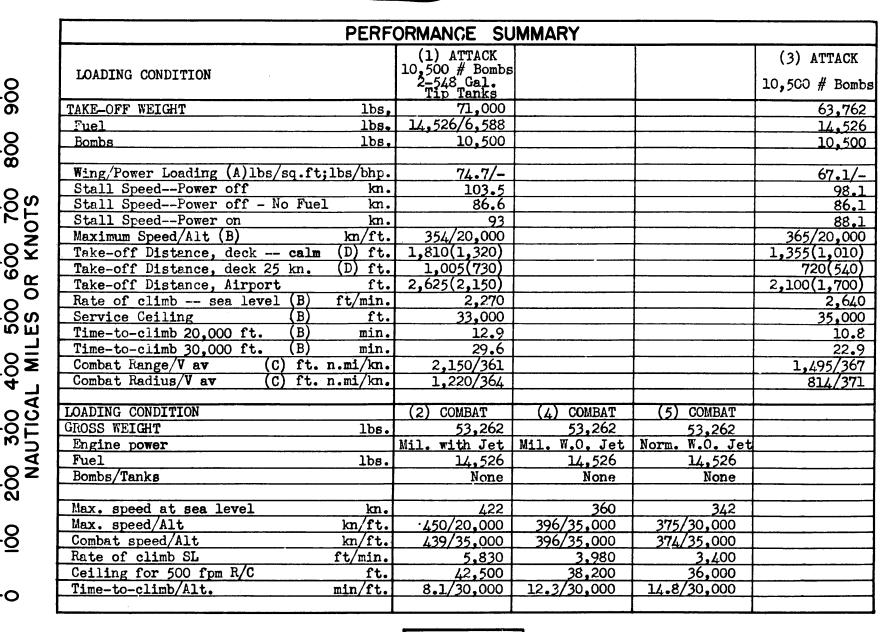
700 800

500 600

STATUTE

MPH

0

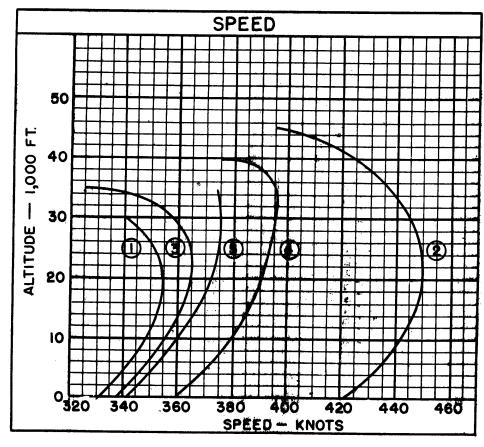


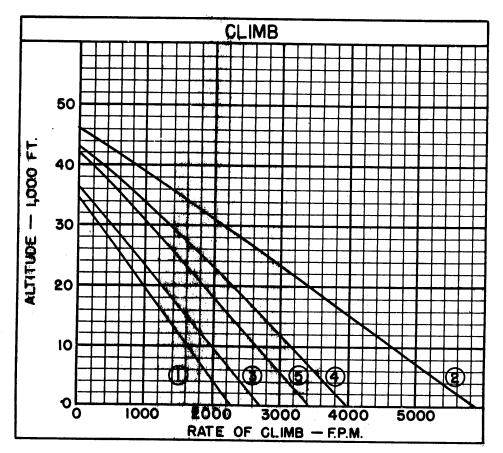
NOTES

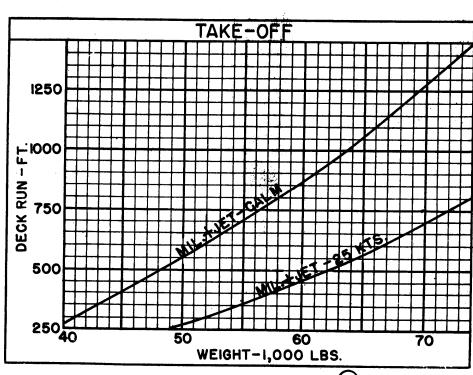
- (A) BHP at Maximum Critical Altitude
- (B) Normal BHP
- (C) All Cruise Calculated at NRP
- (D) Figures in Parenthesis are Military with Jet

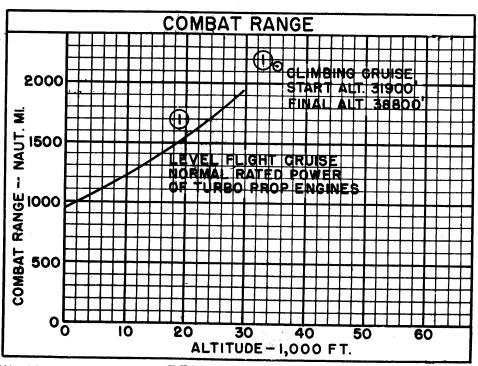
DECLASSIFIED











LOADING CONDITION COLUMN NUMBER

DECLASSIFIED

NOTES

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

Provisions are incorporated for fuel transfer from droppable wing tip tanks to internal tanks.

COMBAT RADIUS PROBLEM NO. A-3

										1	
	WARM-UP TAKE-OFF RENDEZVOUS	CLIMB (A)	CRUISE-OUT	DROP TANKS	CONTINUE CRUISE-OUT	RUN IN	RUN OUT	CLIMB (B)	CRUISE-BACK	RESERVE	
	5 min. at sea level static nor-mal power of all engines	At max. rate with mil. power to initial cruise-out alt. (Alt. not greater than alt. for 300 ft/ min. max. rate of climb with normal power.)	100 n. mi.	Only when empty and state when dropped.	With opti- mum range operation at 35,000 ft. min. alt. to 50 n. mi. from target. (State any special engine operation involved.)	For 50 n. mi. at Vmax. at 35,000 ft. min. altitude with max. power avail— able all engines. DROP Expend— able ordnance retain amm.		To opti- mum alt. for cruise- back alt. not greater than 300 ft./min. max. rate of climb with nor- mal power (fuel used and dis- tance made good).	Under opti- mum cruise conditions, alt. not greater than altitude for 300 ft./min. max. rate of climb with nor- mal power (State alti- tudes and any special engine operations involved.)	10% of total initial fuel load.	2

COMBAT RADIUS = CLIMB (A) / TOTAL CRUISE-OUT / 50 N.MI. = 50 N.MI. / CRUISE-BACK / CLIMB (B)

