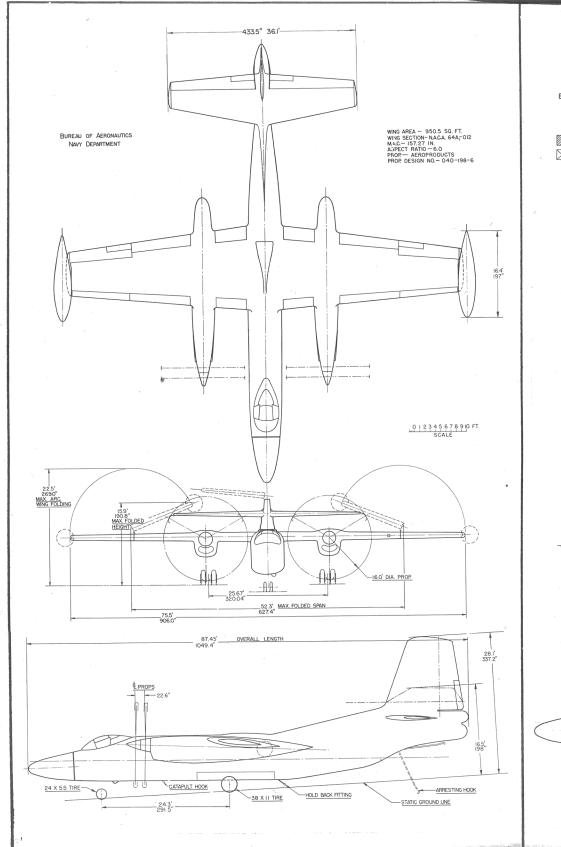
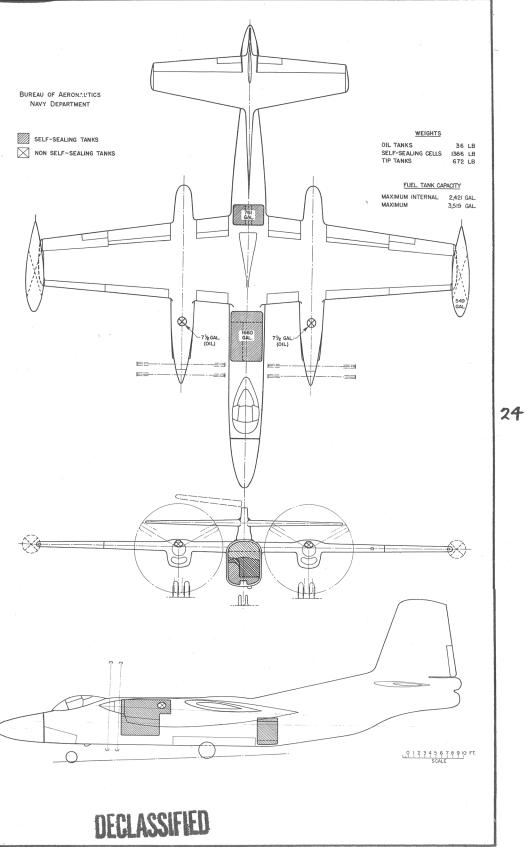


XA2J-2

NORTH AMERICAN

DECLASSIFIED





Pass-

A 10

XA2J-2

1 APRIL 1949

(1) J33-A-12

the second states of the manual states of

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.

	•	DI	M	E	N	51	10		N	S		100004		- Carte	
					-			-			dimeters			dacitie	
WING	٨R	F۵.			_	_	_		g,	57		g	٩		የት
SPAN															
LENG															
HEIG															
TREAD															
PROP															
M.A.	3			•		 							13	8.	-1

WEIGHTS									
Loadings	Lbs.	L.F.							
EMPTY BASIC									
DESIGN		2.5 3. 25							
MAX.T.O MAX.LAND									
All weight	s are esti	mated.							
FUE	LAND	DIL							
Gals. No.	Tanks L	ocation							
Gals. No. 1,660	Tanks L 1* Fu	ocation se.,Fwd.							
Gals. No. 1,660 761	Tanks L 1* Fu 1* Fu	ocation se.,Fwd. se.,Aft.							
Gals. No. 1,660 761 1,098	, Tanks L 1* Fu 1* Fu 2 Wi	ocation se.,Fwd.							
Gals. No. 1,660 761 1,098 * Self-Seal	, Tanks L 1* Fu 1* Fu 2 Wi Ling	ocation se.,Fwd. se.,Aft. ng Tip							
Gals. No. 1,660 761 1,098 * Self-Seal FUEL GRA	, Tanks L 1* Fu 1* Fu 2 Wi	ocation se.,Fwd. se.,Aft. ng Tip 0/130							
Gals. No. 1,660 761 1,098 * Self-Seal FUEL GRA	, Tanks L 1* Fu 1* Fu 2 Wi Ling ADE10	ocation se.,Fwd. se.,Aft. ng Tip 0/130							
Gals. No. 1,660 761 1,098 * Self-Seal FUEL GRA	Tanks L 1* Fu 1* Fu 2 Wi Ling ADE	ocation se.,Fwd. se.,Aft. ng Tip 0/130 -F-48							
Gals. No. 1,660 761 1,098 * Self-Seal FUEL GRA FUEL SPE CAPACITY (0	Tanks L 1* Fu 1* Fu 2 Wi Ling ADE10 ECAN OIL J33 Kal.) 3	ocation se.,Fwd. se.,Aft. ng Tip 0/130 -F-48 <u>XT40</u> 15							
Gals. No. 1,660 761 1,098 * Self-Seal FUEL GRA FUEL SPE	, Tanks I 1* Fu 2 Wi ing ADE10 CAN <u>J33</u> kal.) 3 1010	ocation se.,Fwd. se.,Aft. ng Tip 00/130 -F-48 <u>XT40</u> 15 M							

ELECTRONICS
VHF COMM. EQUIPAN/ARC-1A HOMING RECAN/ARR-2A IFFAN/APX-6 ALTIMETERAN/APN-1 RANGE RECAN/ARC-5 HF RECAN/ARR-15 HF TRANSAN/ART-13

172A 1740

 MFGRAllison PROP. GEAR RATIO15.6:1 PROP. MFGRAeroproducts PROP. DES. NOD40-198-6 NO. BL./DIA6/16 ft.
RATINGS
All ratings are S. S. L. Shp / Lbs.@ Rpm Allison XT40-A-8 Turbo-Prop: T. 0. 7,070 1,075 13,620 MIL. 7,070 1,075 13,620 NORM. 5,870 1,025 13,620
SPEC. NO. 272-A Allison J33-A-12 Turbo-Jet: T. O. (dry) 5,850 11,800 MIL. 5,850 11,800 NORM. 4,800 11,200 SPEC. NO. 275

POWER PLANT

NO. & MODEL.....(2) XT40-A-8

	GUNS - I	None								
	Constitution of the second second									
BOMBS										
Type	Size	Location	No.							
Bomb	100 #	Fuselage	16							
Bomb	250 #	Fuselage	12							
Mine										
Bomb	1,000 #	Fuselage	8							
Bomb		Fuselage								
Bomb	2,000 #	Fuselage	4							
Mine	Mk. 25	Fuselage	32							
Mine	Mk. 39	Fuselage	2							
Mine	Mk. 10-8	Fuselage	2							
	FIRE CO	A REAL PROPERTY AND A REAL								
Bomb	Director	•••••Mk	. 5							
À			00/							
MAXIN	IUM BOMB LC	$AD \dots L2, C$	100#							

25

0000

006

800

200

O

8

4

300

100 200

0-

MPH

0 R

БS O Ø

MIL CC Ñ Ш

STATUTE

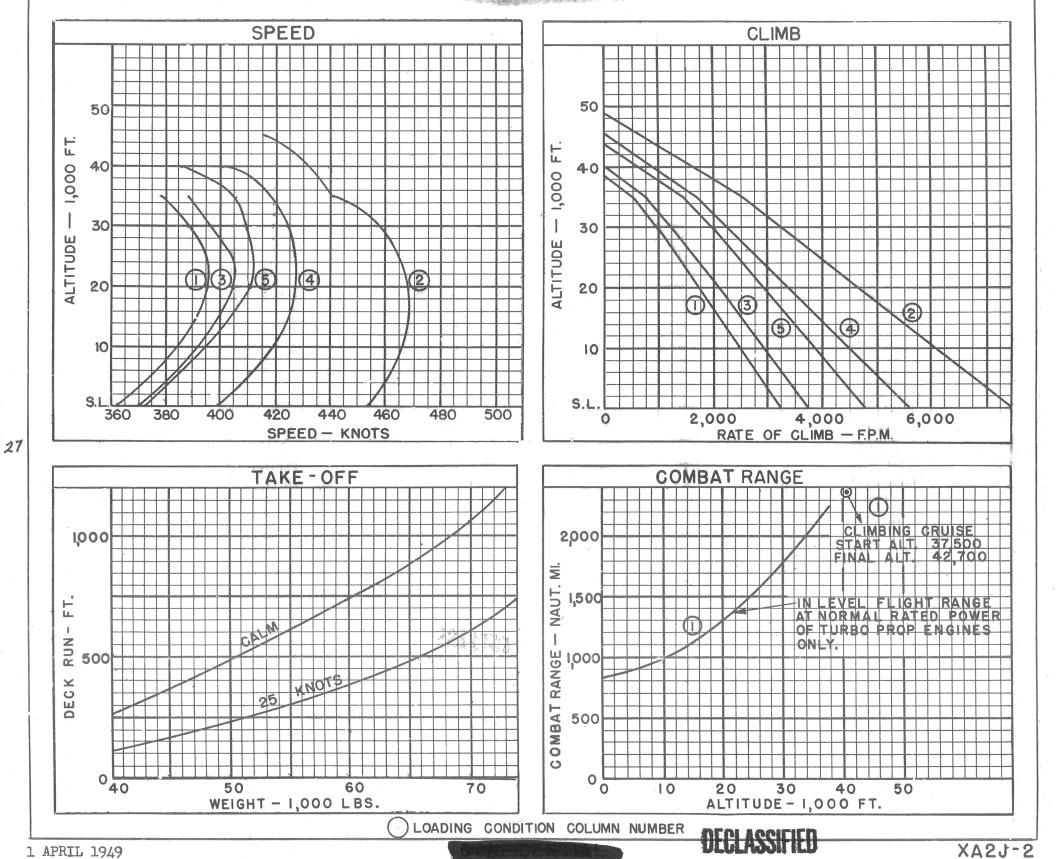
	PERF	ORMANCE SU			
0	LOADING CONDITION	(1) ATTACK 10,500 # Bombs 2-548 Gal. Tip Tanks			(3) ATTACK 10,500 # Bombs
F	TAKE-OFF WEIGHT lbs	71,500			64,262
	Fuel lbs	14,526/6,588			14.526
10	Bombs lbs	10,500			10,500
NOTS 800	Wing/Power Loading (A)lbs/sq.ft;lbs/bhp Stall SpeedPower off kn	74.7/-			67.1/- 98.4
≡ °,o	Stall SpeedPower offknStall SpeedPower off - No Fuelkn				86.6
700 TS	Stall SpeedPower on km				88.5
N N N	Maximum Speed/Alt (B) kn/ft				404/23,000
EoZ	Take-off Distance, deck calm (D) ft	1,415(1,105)			1,067(846)
	Take-off Distance, deck 25 kn.Wind(D)ft	786(625)			568(450)
۲e ا	Take-off Distance, Airport ft				
₹_o	Rate of climb sea level (B) ft/min	second data and the second			3,600
	Service Ceiling (B) ft		-		39,400
Ш Ш Ш	Time-to-climb 20,000 ft. (B) min				7.0
	Time-to-climb 30,000 ft. (B) min				12.9
e e e e e e e e e e e e e e e e e e e	Combat Range/Vav (C) ft. n.mi/kn	2,360/368			1,650/368
	Combat Radius/V av (C) ft. n.mi/kn	1,230/368			820/368
AL 4					
	LOADING CONDITION	(2) COMBAT	(4) COMBAT	(5) COMBAT	
±-ŏī	GROSS WEIGHT lbs		53,762	53,762	
E m's	Engine power	Mil. with Jet	Mil. W.O. Jet	Nor. W.O. Jet	
	Fuel lbs		14,526	14,526	
=E Sz	Bombs/Tanks	None	None	None	
200 200		1.01	100	372	
	Max. speed at sea level kn		400		
、王 o	Max. speed/Alt kn/ft	. 468/14,000	427/22,000	411/24,000 406/35,000	
	Combat speed/Alt kn/ft		417/35,000		
· 王 -	Rate of climb SL ft/min		5,650	4,750	
	Ceiling for 500 fpm R/C ft		42,000	9.5/30,000	
E o	Time-to-climb/Alt. min/ft	5.9/30,000	8.1/30,000	7.5/50,000	

and the second second

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



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

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.)	With opti- mum range operation to reach 35,000' min. alt. at not less than 100 n. mi. from tar- get. (State altitudes and any special engine operations involved.)	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 t. min. altitude with max. power avail- able all engines. <u>DROP</u> Expend- able ordnance retain amm.	For 50 n. mi. at Vmax. at 35,000 ft. min. altitude with max. power avail- able all engines.	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.
47,200 FT ,0		BAT RADIUS = CI	JIMB (A) ≠ TOT.		4 50 N.MI. 7,700 FT.9	= 50 N.MI.		. ≠ CLIMB (B) -∞. 45,800 FT	
	⁰ 37,500 FT 546 N. MI.	DROF	50 N MI.	700 FT.	0-0	° 39,000 F		50 N MI.	,700FT.
-	COM	BAT RADIUS		DECLASSIFIE]		3		