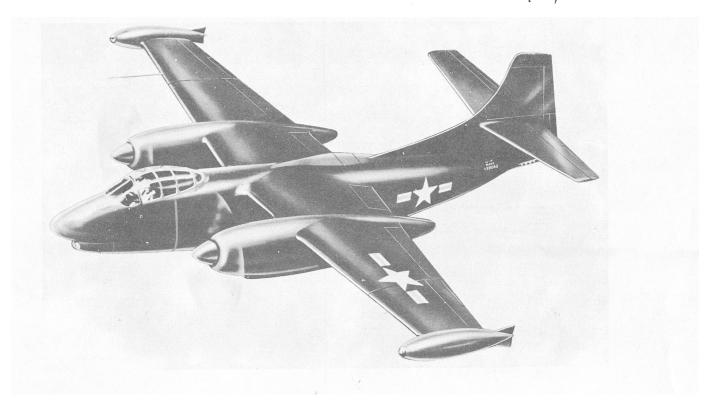
DECLASSIFIED

DECLASSIFIED IAW, OPNAVINST 5513.10 SERIES, BY T-G. Hilt ON 12/19/96



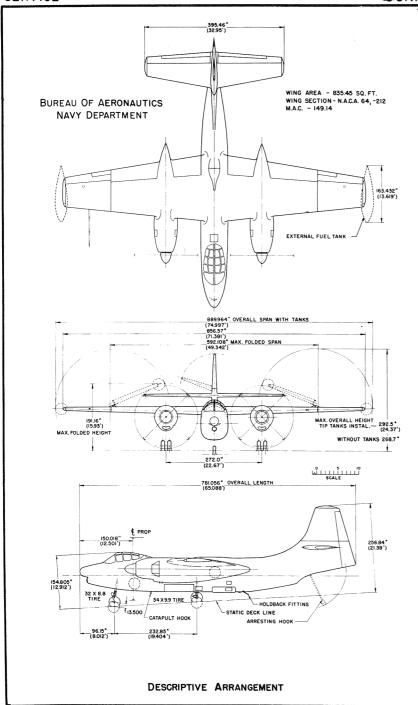
STANDARD AIRCRAFT CHARACTERISTICS

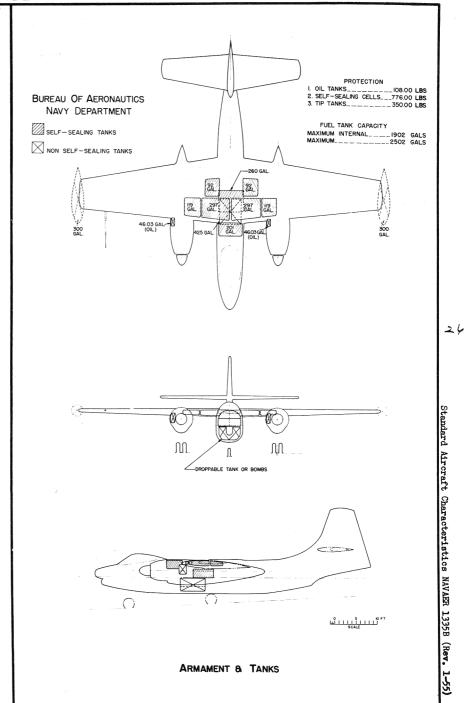
AJ-2P "SAVAGE"

NORTH AMERICAN

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RATINGS

	Company of the last of the las	THE RESERVE OF THE PARTY OF THE		
T. O. MIL.	BHP 2,300 2,300	@ RPM 2,800 2,800	@	ALT. S.L. 30,000'
NORM.	1,800	2,600		ا37,600
T. O. MIL. NORM.	LBS. 4,600 4,600 3,900	@ RPM 11,750 11,750 11,250	0	ALT. S.S.L. S.S.L. S.S.L.

SPEC. NOS. N-8127-B and 258-D

ORDNANCE

	None	
	BOMBS	
<u> Гуре</u> Г9Е – 8	<u>Location</u> Bomb Bay	<u>No.</u> 1/
	CARTRIDGES	
	M112(A-6 Ejector) Bomb Bay	108
Photoflash	M123(B-4 Ejector) Bomb Bay	40

BOMB SIGHT

Control Director......Aero 7A CAMERAS

4 K-38 or - Aircraft Camera (Day Reconnaissance)

6 K-17C - Aircraft Camera (Day Reconnaissance)

4 T-11 - Aircraft Camera (Mapping and Charting)

4 K-37 or - Aircraft Camera (Night K-47 Reconnaissance) - Aircraft Camera (Mapping 3 CA-8

and Charting) 3 CAS-2 - Aircraft Camera (Day

Reconnaissance, Strip) (See NOTES)

MISSION AND DESCRIPTION

The AJ-2P is a carrier-based photo-reconnaissance airplane developed from the AJ-1 airplane. It will be used for both day and night photographic missions.

Principal differences from the AJ-1 are: larger vertical tail; no dihedral in horizontal tail; nose section of fuselage modified to provide camera port; overall length 2 feet greater; smaller bomb bay; and camera stations immediately aft of bomb bay.

DEVELOPMENT

Mockup date January	1951
First flight March	1952
Service use	1952

WEIGHTS

LOADINGS	LBS.	L.F.
	31,900.	
BASIC	32,355.	
DESIGN	48,040.	4.0
COMBAT	46,656.	
MAX.T.O.	(Field).51,600.	
	(Cat.)51,600.	
MAX.LAND.	(Field).45,000.	
1	(Arrest).37,500.	

All weights are actual

FUEL AND OIL

GALS.	NO. TANKS	LOCATION
1,016	6	Wing, S.S.
600	2	Tip, Drop
461	2	Fuse., S.S.
425	1	B.B., Drop

	RECIP.	JET	TURBO
CAP. (Gal.)	92.06	3	3
OIL GRADE	1100	1010	1065
MIL, SPEC.	0-6082	0-6081A	0-6082

DIMENSIONS

WING AREA. 836 sq WINGSPAN. 71' WINGSPAN(with tiptanks) .75' WING SPAN(folded) .49' LENGTH65' HEIGHT .21' HEIGHT(folded) .16' HEIGHT(folded with tip tanks) .17' TREAD22' PROP. CLEARANCE .1'		
	-	2" 5"

ELECTRONICS

UHF. RANGE REC. HOMING RADIO COMPASS. MARKER BEACON. HF REC. HF TRANSMITTER. IFF. ALTIMETER. INTERPHONE. ALTIMETER-HIGH ALT. SPARCH RADAR	AN/ARC-5 AN/ARR-2A AN/ARN-6 AN/ARN-15 AN/ART-13 AN/ART-13 AN/ART-10 AN/ART-13 AN/ART-13 AN/ART-13 AN/ART-13 AN/ART-13 AN/ART-13
SEARCH RADAR	AN/APS-31A
Provisions for:	

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PERFORMANCE SUMMARY						
TAKE-OFF LOADING CONDITION		(1) NIGHT RECONNAISSANCE 14 - T-9E-8 Flash Bombs	(3) DAY RECONNAISSANCE	(4) NIGHT RECONNAISSANCE 14 - T-9E-8 Flash Bombs	(5) DAY RECONNAISSANCE	
TAKE-OFF WEIGHT	lb.	50,256	50,849	46,286	44,074	
Fuel (Fixed/Drop)	1b.	50,256 8,862/3,600	8,862/6,150	8,862/	8,862/	
Fayload (Cameras/Bombs)	1b.	784/2,659	784/	784/2,659	784/	
Wing loading	lb./sq.ft.	60.1	60.9	55.3	52.7	
Stall speeu - power-off	kn.	103.9	104.6	99.3	97,1	
Take-off run at S.L calm	(A) ft.	2,200(1,360)	2,275(1,430)	1,650(1,000)	1,425(850)	
Take-off run at S.L. 25 kn. wind	(A) ft.	1,300(750)	1,350(780)	875 (520)	750(425)	
Take-off to clear 50 ft calm	ſt.					
Max. speed/altitude	(B) kn./ft.	300/26,000	295/26,000	314/30,000	323/30,000	
Rate of climb at S.L.	(B) fpm.	970	· 900	1,175	1,310	
Time: S.L. to 10.000 ft.	(B) min.	12.7	13.5	10.5	9.5	
Time: S.L. to 20,000 ft.	(B) min.	28.0	30.2	22.0	19.0	
Service ceiling (100 fpm)	(B) ft.	34,250	34,000	34,500	36,500	
Combat range	n.mi.	1,880	2,365	1,265	1,380	
Average cruising speed	kn.	230	2/2	237	234	
Cruising altitude(s)	ft.	25,000	25,000	25,000	25,000	
Combat radius	n.mi.	840	1,080	. 545	570	<u> </u>
Average cruising speed	kn.	207	209	210	210	
Mission time	hr.	8.3	10,6	5.4	5,6	
COMBAT LOADING CONDITION		(2) Flash Bombs retained				
COMBAT WEIGHT	1b.	46,656				
Engine power		Dry Mil., All Eng.				
Fuel	1b.	8,862				
Combat speed/combat altitude	kn./ft.	384/30,000				
Rate of climb/combat altitude	frm/ft.	1,825				
Combat ceiling (500 fpm)	ft,	40,500				
Rate of climb at S.L.	fpm	2,875				
Max. speed at S.L.	kn.	309				
Max. speed/altitude	kn./ft.	386/35,000				
LANDING WEIGHT	1b	36,124				
Fuel	1b	989				
Stall speed - power-off	kn	88.4				
Stall speed - with approach power	kn	75.6				

NOTES

REASONS FOR REISSUE: Performance data completely based on NATESTCEN Flight Test Data.

- (A) Take-off distances are for take-off power on reciprocating engines. Figures in parenthesis are for take-off power on all engines.
- (B) Normal Rated Power (2 reciprocating engines).

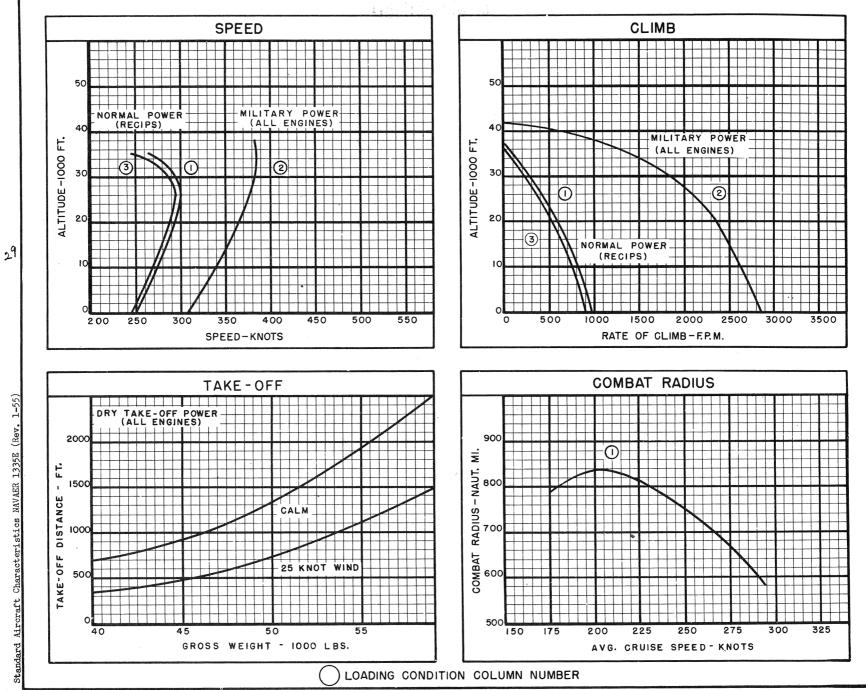
COMBAT RANGE and RADIUS are based on Flight Test Data fuel consumption increased by 5%.

Tip tanks are carried at all times. (Cruising fuel consumption is better with tip tanks on than with tip tanks off).

SPOTTING: A total of 22 airplanes can be accommodated in a landing spot on the flight and hangar decks of a CVA-19 class angled deck carrier.

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WAVAER-1335D (Rev. 1-5



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AJ-2P

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NOTES

HIGH ALTITUDE RECONNAISSANCE COMBAT RADIUS PROBLEM

WARM-UP, TAXI, TAKE-OFF: Reciprocating engines; 10 minutes at normal rated power at sea level.

Jet engine: 5 minutes at normal rated power at sea level.

CLIMB: On course to 25,000 feet at normal rated power. Jet off.

CRUISE-OUT: At 25,000 feet at V for long range. Jet off. Tip tanks retained.

CLIMB: On course to 30,000 feet at normal rated power. Jet off. Climb ends 87 nautical miles from target.

CRUISE-OUT: 43.5 nautical miles at 30,000 feet at V for long range. Jet off.

RUN-IN: 43.5 nautical miles at 30,000 feet at military rated power, all engines.

DROP FLARE, TAKE PHOTOGRAPHS

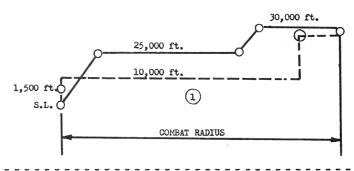
RUN-OUT: 43.5 nautical miles at 30,000 feet at military rated power, all engines.

DESCEND: To 10,000 feet. (No fuel used, no distance gained).

CRUISE-BACK: At 10,000 feet at V for long range. Jet off.

DESCEND: To 1,500 feet. (No fuel used, no distance gained).
RESERVE: 30 minutes at V for long range at sea level (Jet off) plus 5% of initial fuel load.

COMBAT RADIUS = CLIMB + CRUISE-OUT + CLIMB + CRUISE-OUT + RUN-IN = RUN-OUT + CRUISE-BACK MISSION TIME = CLIMB + CRUISE-OUT + CLIMB + CRUISE-OUT + RUN-IN + RUN-OUT + CRUISE-BACK



ORDNANCE (Continued)

1 A-10 - Motion Picture Camera (forward firing 35mm.)

CR-la - 35mm Radarscope Recording Camera (for APS-31)

1 AN-Noa - 16mm Camera (for Data Recording, Photographic runs)

3 AN-N9 - 16mm Cameras, Gun, (for Target recording.)

SPECIAL PHOTO EQUIPMENT

MOUNT, CAMERA

A-28 Stabilized

Location Camera Compartment

10.

A-16VF Right

Viewfinder

Right side cockpit

LOADING CONDITION COLUMN NUMBER

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andard Aircraft Characteristics NAVAER 1335F (Rev. 1

AJ-2P

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