

STANDARD AIRCRAFT CHARACTERISTICS

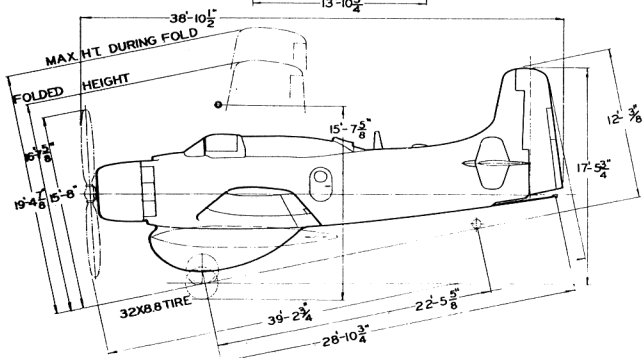
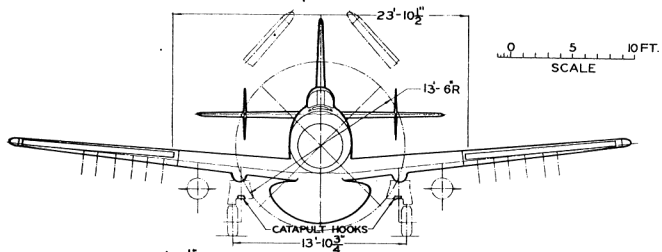
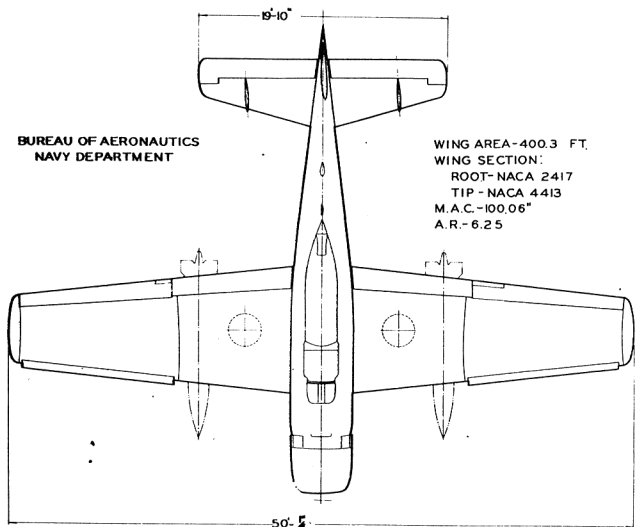
AD-4W "SKYRAIDER"

DOUGLAS

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Standard Aircraft Characteristics MAYAER 1335A (REV. 1-49)

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

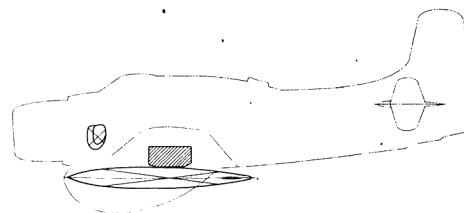
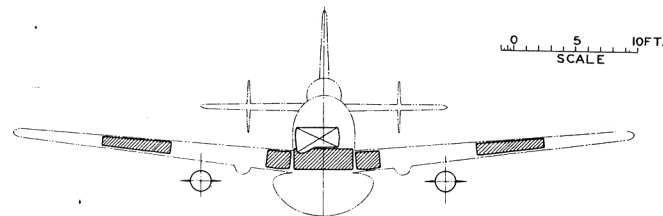
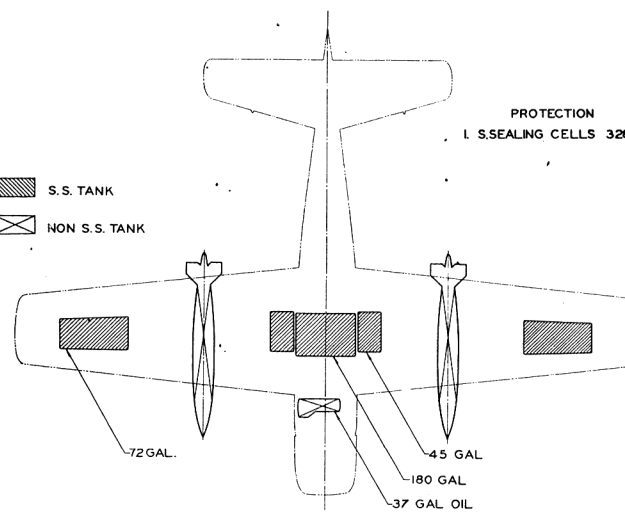
WING AREA-400.3 FT.
WING SECTION:
ROOT-NACA 2417
TIP-NACA 4413
M.A.C.-100.06"
A.R.-6.25



DESCRIPTIVE ARRANGEMENT

PROTECTION
1 S.S.EALING CELLS 328.0LBS

▨ S.S. TANK
⊠ NON S.S. TANK



ARMAMENT & TANKS

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Standard Aircraft Characteristics NAVAER 13358 (REV. 1-49)

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Standard Aircraft Characteristics NAVAER-1335C

POWER PLANT

NO. & MODEL.....(1) R-3350-26W
 MFR.....Wright
 SUPERCH.....1 Stage, 2 Speed
 PROP. GEAR RATIO.....0.4375
 PROP. MFR.....Aero Prod
 PROP. DES. NO.....M20A-162-0
 NO. BL./DIA.....4/13' -6"

RATINGS

	Bhp	@ Rpm	@ Alt.
T.O.	2,700	2,900	S.L.
COMBAT	3,020	2,900	S.L.
	2,570	2,600	8,900'
MIL	2,700	2,900	3,700'
	2,100	2,500	14,500'
NORMAL	2,300	2,600	S.L.
	1,900	2,600	17,100'

SPEC. NO. N-836

ORDNANCE

BOMBS AND ROCKETS

Racks	Max. Cap	Location	No.
MK.51	2,000	Inner Wing	2

(For external fuel only)

MISSION AND DESCRIPTION

The principal mission of the AD-4W is to provide airborne early warning of enemy attack. The airplane also has complete ASW search capabilities. This version of the AD-4 series airplane is a single engine, three place attack land airplane.

The interior arrangement provides an enclosed cockpit for the pilot with all flying controls and instruments. An enclosed compartment is also provided behind the pilot's cockpit for two radar operators with partial controls for the radar equipment. A passage is provided on the starboard side to permit access in flight to the electronic equipment for minor repair and adjustment. Entrance doors with windows are provided on each side of the rear compartment. The doors may be released in flight for emergency exit.

A fiberglass radome is suspended under the fuselage to house the search AEW antenna.

The airplane is conventional in arrangement with aluminum alloy semi-monocoque structure. Arresting gear and catapult hooks are provided to permit operation from any size carrier.

DEVELOPMENT

First flight - - - - - February 1950
 Service use - - - - - May 1950

DIMENSIONS

WING AREA.....	400 sq. ft.
SPAN.....	50' -0"
LENGTH.....	38' -11"
HEIGHT.....	15' -8"
TREAD.....	13' -11"
M.A.C.....	8' -4"
PROP. CLEAR.....	6"

WEIGHTS

Loadings	Lbs	L.F.
EMPTY.....	13,366.....	
BASIC.....	13,754.....	
DESIGN.....	15,595.....	6.0..
COMBAT.....	16,070.....	5.8..
MAX. T.O. (Field).....	24,000.....	
(Cat.).....	18,300.....	
MAX. LAND (Field).....	21,000.....	
(Arrest).....	17,000.....	

* All weights are actual

FUEL AND OIL

Gal.	No. Tanks	Location
180	1	* Fuselage
90	2	* Wing Inbd.
144	2	* Wing Outbd.
300	2	Wing Drop
FUEL GRADE.....	115/145	
FUEL SPEC.....	AN-F-48	

OIL

CAPACITY.....37 gal.
 SPEC.....AN-O-8
 GRADE.....1120
 * Self sealing tanks.

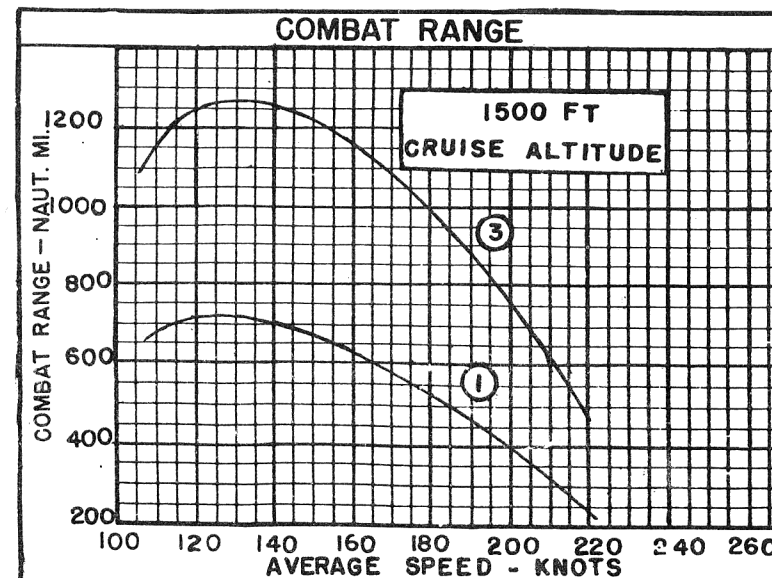
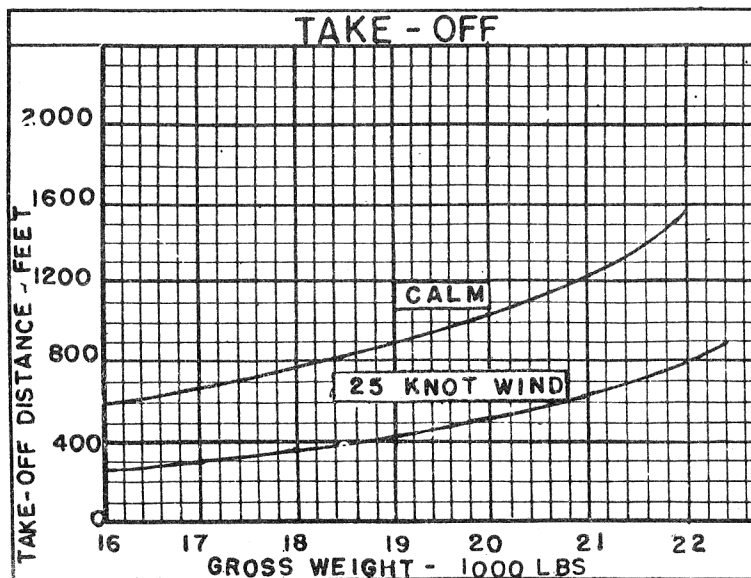
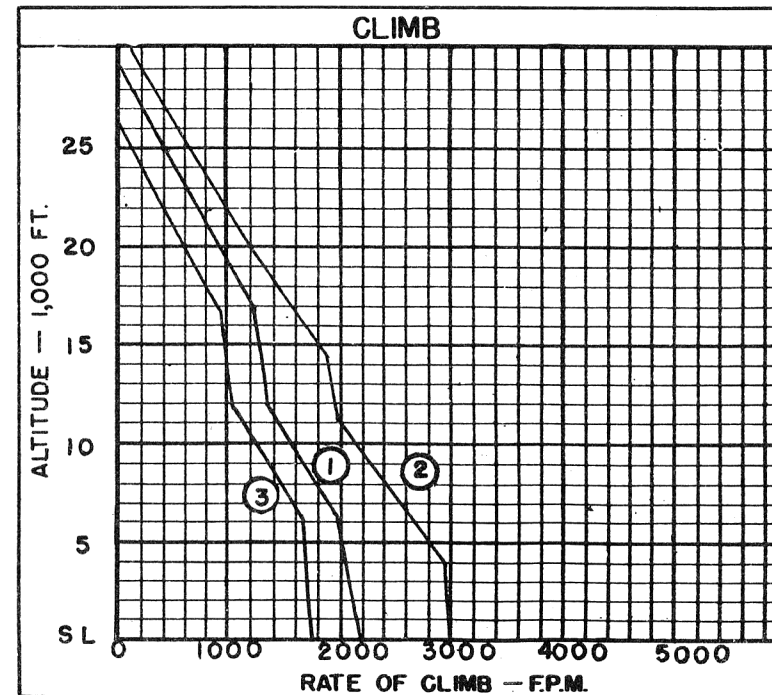
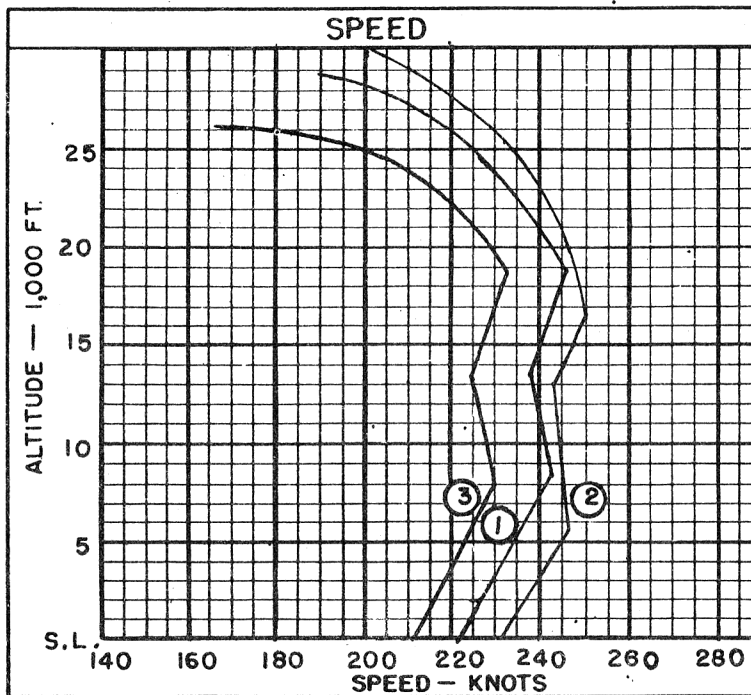
ELECTRONICS

VHF COMM.....AN/ARC-28
 VHF COMM.....AN/ARC-27
 (P.S.I.Repl. for AN/ARC-28)
 VHF COMM.....AN/ARC-2
 (Alternate to (1) AN/ARC-27/
 AN/ARC-1)
 INTERPHONE.....AN/AIC-4A
 RADIO ALTM.....AN/APN-1
 RANGE REC.....AN/ARR-2A
 NAV. SYS.....AN/ARN-21
 (P.S.I.Repl for AN/ARR-2A)
 (Continued on Note page)

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Standard Aircraft Characteristics NAVAER 1335E (REV. 2-50)



○ LOADING CONDITION COLUMN NUMBER

NOTES

ASW RANGE PROBLEM

LOADING CONDITIONS ① & ③ .

WARM-UP, TAXI, TAKE-OFF: 10 minutes at normal power.

CLIMB: On course to 1,500 feet at normal power.

CRUISE: At V for long range at 1,500 feet. External tanks are dropped when empty.

RESERVE: 20 minutes at sea level at V for long range + 5% of initial fuel load.

COMBAT RANGE = CLIMB + CRUISE

COMBAT RADIUS = 40% of COMBAT RANGE.

ELECTRONICS (Continued)

RADAR GPI.....AN/APA-57C

GR. POSIT. IND.....AN/APA-81

RADAR.....AN/APS-20A

(Speed Control Kit)

RADAR.....AN/APS-20C

IFF.....AN/APX-6

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Standard Aircraft Characteristics NAVAER 1335F (REV. 1-49)