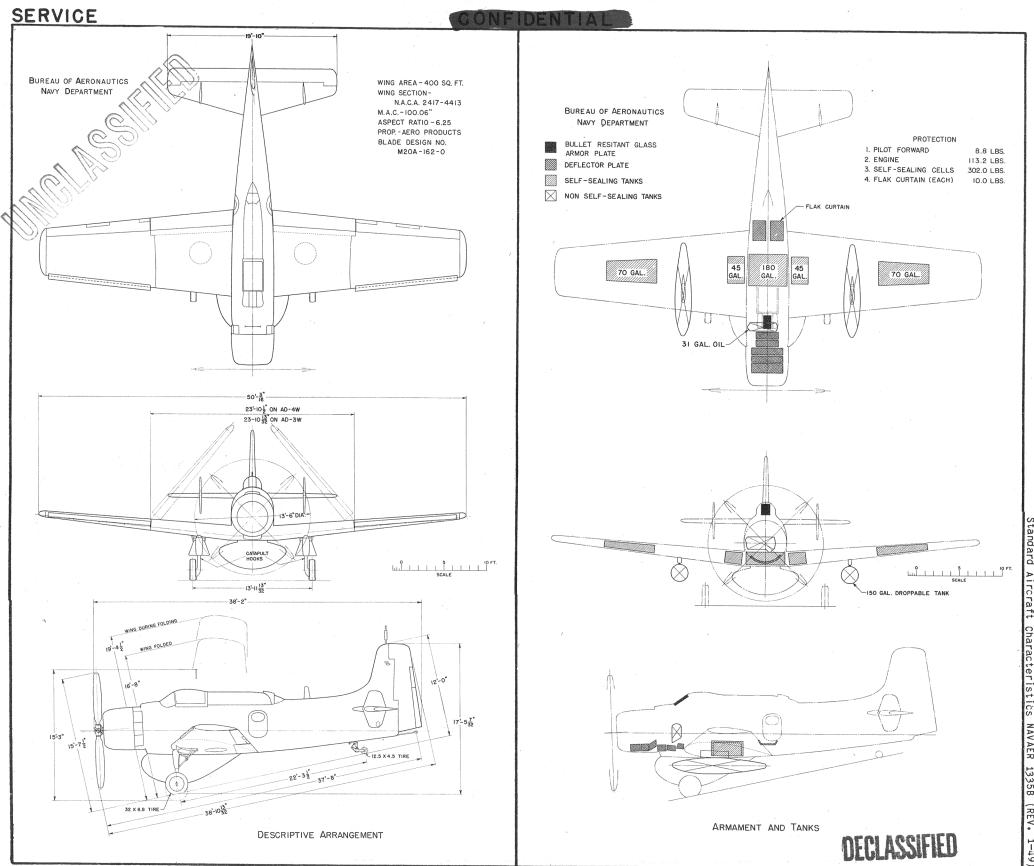


STANDARD AIRCRAFT CHARACTERISTICS AD-3W "SKYRAIDER"

DOUGLAS



AD-3W

1 JANUARY 1950

MISSION AND DESCRIPTION

The principal mission of the AD-3W airplane is to provide airborne early warning of enemy attack. It is a three-place attack airplane, not equipped with dive brakes. It is carrier-based.

The interior arrangement provides an enclosed compartment abaft the pilot's cockpit for two radar operators with partial controls for the radio and complete 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 fiberglas 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. Slotted flaps are fitted.

DIMENSIONS						
WING AREA400 sq. ft.						
SPAN						
LENGTH381 - 2"						
HEIGHT15' - 8"						
TREAD						
M.A.C81 - 4"						
PROP. CLEAR6"						
et a la company de la comp						

	FUE	L AND	OIL					
-	Gal. No.	Tanks	Location					
		1	Fuse., S.S.					
	230	4	Wings, S.S.					
	300	2	Wings, Drop					
	FUEL GRADE115/145 FUEL SPECAN-F-48							
	OIL							
	CAPACITY (C	Gals.)						

SEE NOTES

MODEL...(1) R-3350

RATINGS

Bhp @ Rpm @ Alt.
T. 0. 2,700 2,900 S. L.

MIL. 2,700 2,900 3,700'
2,100 2,600 14,500'

NORMAL 2,300 2,600 S. L.
1,900 2,600 17,100'

SPEC. NO. N-836

ORDNANCE

NONE



DECLASSIFIED

OR MPH

PERFORMANCE SUMMARY						
LOADING CONDITION	(1) AEW 2-150 Gal. Tanks	(3) AEW				
TAKE-OFF WEIGHT lbs		16,600				
Fuel (Fixed/Drop) lbs	. 2,460/1,800	2,460/-				
Bombs	g gastas	60,04000				
W. 77 7 10 (4) 33 / 01 33 / 13	1/ 7/0 0	17 7/4 74		with the same that the same th		
Wing/Power Loading (A)lbs/sq.ft;lbs/bhp		41.5/8.7				
Stall SpeedPower off kr	- 0000	81.0				
Stall SpeedPower off - No Fuel kr Stall SpeedPower on kr	1200	74.9				
Stall SpeedPower on km Maximum Speed/Alt (B) km/ft		73.0 242/18,000				
Take-off Distance, deck calm		742				
Take-off Distance, deck 25 km.		339				
Take-off Distance, Airport		227				
Rate of climb sea level (B) ft/mir		2,770				
Service Ceiling (B) ft		33,000				
Time-to-climb 10,000ft. (B) mir		3.9				
Time-to-climb 20,000ft. (B) mir		9.1.				
Combat Range/V av 1,500 ft. n.mi/kr		740/130				
Combat Radius/V av 1.500 ft. n.mi/kr	510/130	295/130				
Combat Endurance/V av 1.500 ft. hr/km		6.1/120				
LOADING CONDITION	(2) COMBAT	0.1/120				
GROSS WEIGHT lbs						
Engine power	Military	. /				
Fuel lbs				A.1.		
Bombs/Tanks						
Max. speed at sea level kr						
Max. speed/Alt kn/ft						
Combat speed/Alt kn/ft						
Rate of climb SL ft/mir		* C		.,		
Ceiling for 500 fpm R/C ft						
Time-to-climb/Alt. min/ft	•					

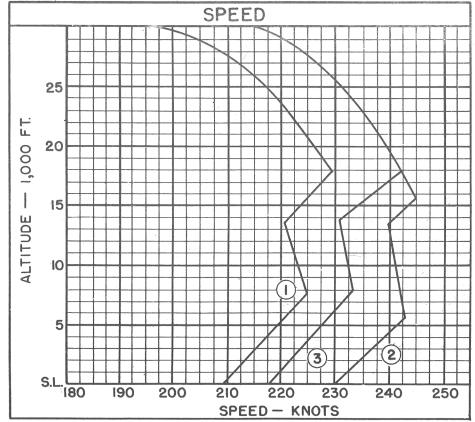
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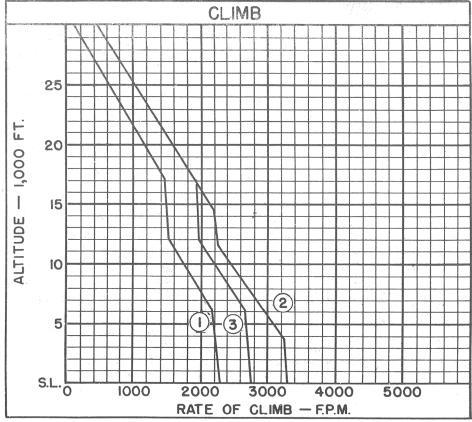
- (A) EHP at Maximum Critical Altitude (B) Normal EHP

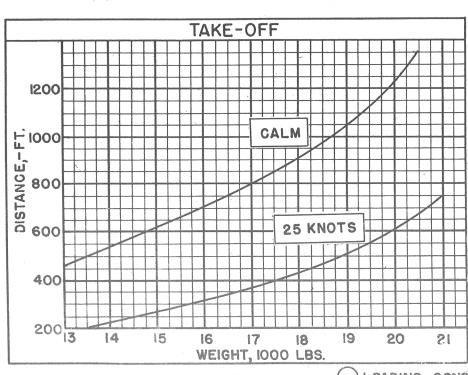
Performance is based on flight test of AD-1 airplane and partial flight tests of AD-3W airplane.

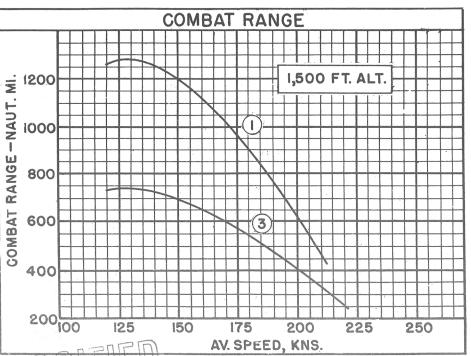
DECLASSIFIED











LOADING CONDITION COLUMN NUMBER

(REV. 1-49)

Standard Aircraft Characteristics NAVAER 1335E



NOTES

GENERAL ASW PATROL PROBLEM NO. ASW-1

COMBAT RADIUS = 40% of combat range at 1,500 ft. altitude.

All loadings include 2 Mk-51 wing bomb racks with sway bracing.

Spotting: 200 ft. length is required to spot 20 airplanes on the 96 ft. wide deck immediately aft of the forward ramp on the CV-9 class carriers.

Combat endurance is based on same assumptions and allowances as combat range. Speed for maximum endurance is approximately 112 km. but endurance at 120 km. is presented because handling characteristics are poor at lower speeds.

The following Electronics equipment will be installed in service:

Ground Position Indicators.....AN/APA-57 and AN/APA-81

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