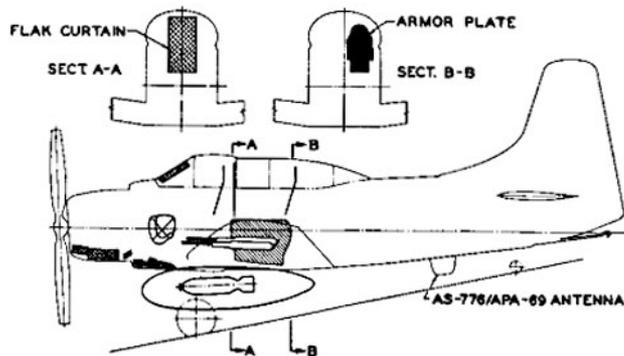
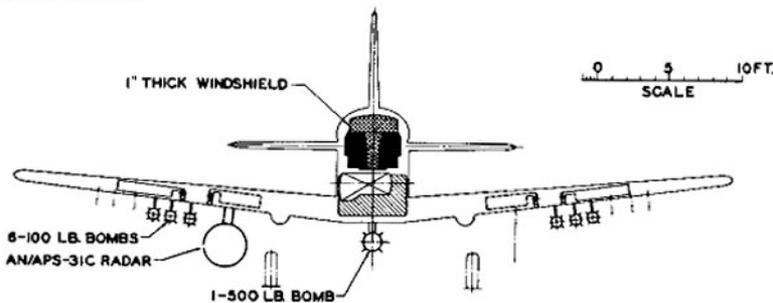
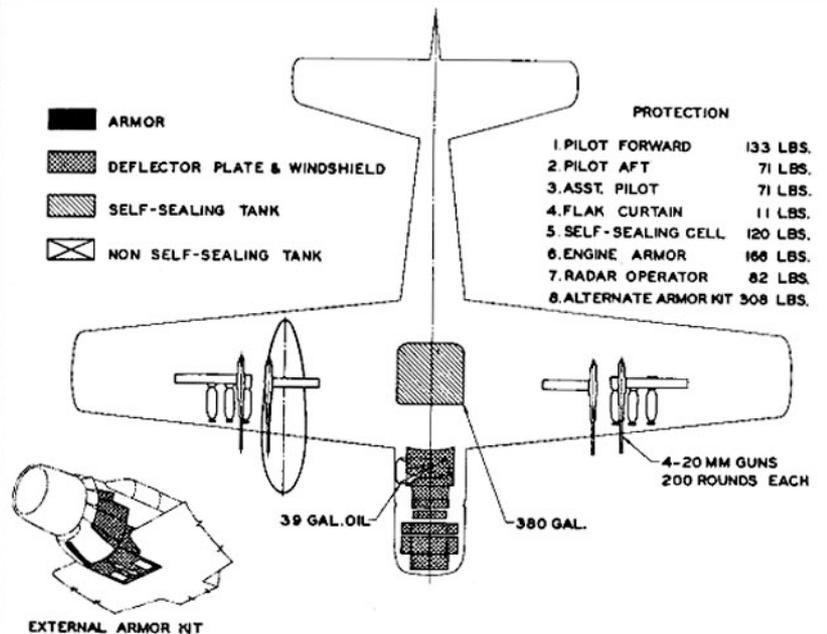
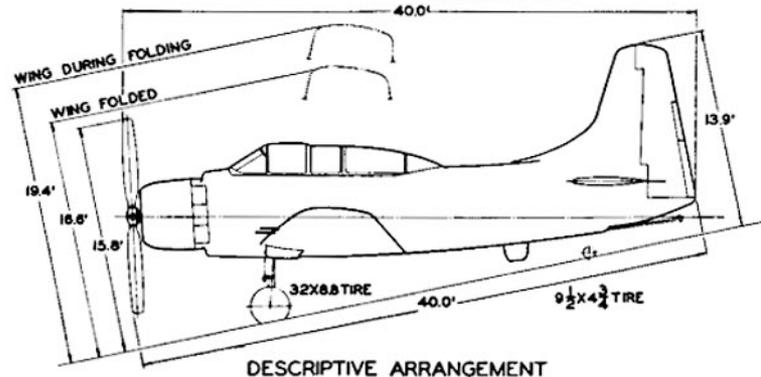
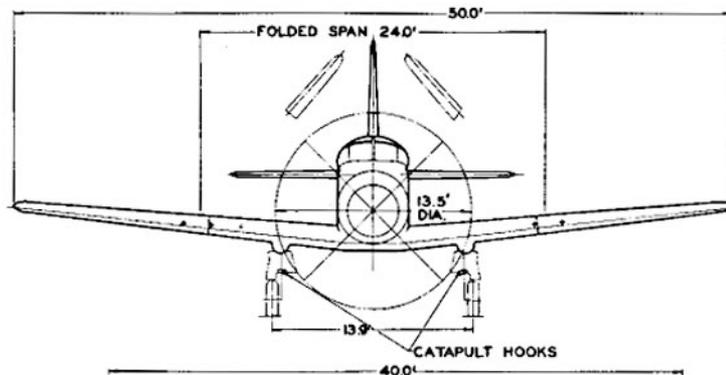
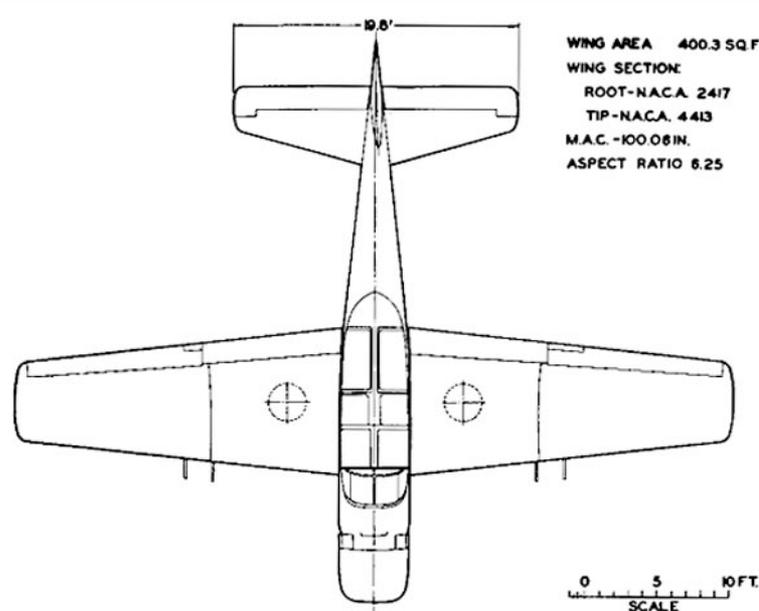


STANDARD AIRCRAFT CHARACTERISTICS
A-1G SKYRAIDER



ARMAMENT & TANKAGE



DESCRIPTIVE ARRANGEMENT

POWER PLANT

No. & Model.....(1) R-3350-26-WA
 Mfr.....Wright Aero
 Superchg.....Single Stage Two Speed
 Red. Gear Ratio......4775:1
 Prop. Mfr.....Aero Products
 Blade Des. No.....M20A2-162-0
 No.Blades/Prop./Dia.....4/13'6"

RATINGS

	HHP	RPM	ALT.
T.O.	2,700	2,900	S.L.
MIL.	2,700	2,900	3,700
	2,100	2,600	14,500
NORM.	2,300	2,600	6,200
	1,900	2,600	17,000

Spec. No.M336-D

ORDNANCE

Maximum Bomb Load.....8000 lbs.
Centerline (1-Aero 3A Ejector)
 Bombs.....1-2000 lb. 1-500 lbs.
 1-1600 lb. 1-250 lbs.
 1-1000 lb. 1-100 lbs.
 Depth Bomb....1-350 lb.
 Mines.....1-2000 lb. 1-500 lbs.
 1-1000 lb.
 Torpedoes.....One
 Frag. Clust...1-500 lb. 1-100 lbs.
 Incend. Cl...1-500 lb. 1-100 lbs.
 Chem. Tanks...1-Aero L4A
 Fuel Tanks....1-300 gal. 1-150 gal.
 Prac. Bombs...1-Aero 4A Container
 (Mk.47 Rack)...1-Aero 5A Container
 Misc.Stores...1-Mk. 7 1-Mk. 91
 1-Mk. 8 1-BOAR
 1-Mk.12 1-Mk. 90
 1-APT-16 Radar Store
 1-Aero 2A Sono/fl. disp.
Inner Wing (2-Mk.5) Bomb Racks
 Bombs.....2-2000 lb. 2-500 lb.
 2-1600 lb. 2-250 lb.
 2-1000 lb. 2-100 lb.
 Depth Bomb....2-350 lb.
 Mines.....2-2000 lb. 2-500 lb.
 2-1000 lb.

Continued on NOTES Page

MISSION AND DESCRIPTION

The principal mission of the AD-5N is that of night attack and radio countermeasures. It is also a bomber, mine-layer, torpedo or scout airplane capable of operating from carrier or land bases. The AD-5N has complete installation provisions for all equipment required for anti-submarine operations and also contains structural provisions for any item of tactical equipment normally carried on any other AD-5 model. The AD-5N is a development of the AD series and incorporates a side-by-side seating for an assistant pilot. A radar operator is located aft of the pilot. The crew and all special tactical equipment is located within a unified cockpit area to permit interchange of crew positions and maintenance of electronics equipment in flight. The AD-5N incorporates increased armament, improved maintenance, and improved aerodynamic characteristics. A single dive brake is provided for dive bombing and maneuvering control. The airplane arrangement provides space for additional equipment as may be dictated by future tactical requirements.

DEVELOPMENT

First Flight.....August 1952
 Service Use.....March 1954

WEIGHTS

LOADINGS	lbs.	cu ft.
EMPTY.....	12,112	
BASIC.....	14,641	
DESIGN.....	17,000	6.4
COMBAT.....	18,505	5.9
MAX.T.O. (FIELD).....	25,000	
(CAT.).....	25,000	
MAX.LDG. (FIELD).....	21,000	
(ARREST).....	17,500	

ALL WEIGHTS ARE CALCULATED

FUEL AND OIL

GALS.	NO. TANKS	LOCATION
380*	1	Fuselage
150 or 300	1	Ctr. Drop
150 or 300	2	Wing Drop
Fuel Grade.....115/145		
Fuel Spec.....MIL-F-5572		
*Self Sealing Tank		
Max. useable fuel 980 gal. (limited by oil cap.)		

OIL

CAPACITY.....39 gals.
 SPEC.....AN-O-8
 GRADE.....1120

DIMENSIONS

WING	
AREA.....	400.3 sq.ft.
SPAN.....	50.0 ft.
MAC.....	8.4 ft.
LENGTH.....	40.0 ft.
HEIGHT.....	15.8 ft.
TREAD.....	13.9 ft.
PROP.GRD. CLEARANCE.....	6 in.

ELECTRONICS

UHF Trans.-Rec.....	AN/ARC-27A
MF Trans.-Rec.....	AM/ARC-2
Radio Altimeter.....	AM/APN-22
Marker Beacon.....	AM/ARN-12
IFF.....	AM/APX-6
IFF Coder.....	AN/APA-89
LF ADF.....	AN/ARN-6
UHF ADF.....	AN/ARA-25
Interphone.....	AM/ATC-4
Radar Search.....	AN/APS-31C
LAB Radar Bombight.....	AN/APA-16
LAB R-R Adapter.....	MX-476/APA-16
Sonobuoy Rec.....	AN/ARR-26
Searchlight.....	AM/AVQ-2A
ECM Rec.....	AM/APR-9B

Continued on NOTES Page

SERVICE

PERFORMANCE SUMMARY					
TAKE-OFF LOADING CONDITION	(1)	ATTACK 1-500 lb. bomb 6-100 lb. bombs	(3)	(4) ASW ATTACK Mk. 34 Torpedo AN/APG-2 Search- light and Song- buster Dispenser	(5) ATTACK 1-1000 lb. Bomb 1-500 lb. Bomb 12-100 lb. Bombs
TAKE-OFF WEIGHT	lb.	20,517	23,069	21,320	22,117
Fuel	lb.	2,280	4,080	2,280	2,280
Payload	lb.	1,100	1,660	1,200	2,700
Wing loading	lb./sq.ft.	51.3	57.7	53.3	55.3
Stall speed - power-off	kn.	89.7	95.1	91.4	93.1
Take-off run at S.L. - calm	ft.	1,200	1,600	1,300	1,440
Take-off run at S.L. 25 kn. wind	ft.	600	830	670	740
Take-off to clear 50 ft. - calm	ft.	2,025	2,775	2,230	2,465
Max. speed/altitude	(A) kn./ft.	257/17,300	257/17,300	245/17,100	240/17,100
Rate of climb at S.L.	(A) fpm.	1,640	1,330	1,480	1,360
Time: S.L. to 10,000 ft.	(A) min.	6.5	8.3	7.3	8.1
Time: S.L. to 20,000 ft.	(A) min.	16.3	22.3	18.8	21.4
Service ceiling (100 fpm)	(A) ft.	24,500	22,300	23,200	22,100
Combat range	n.mi.	575	1,135	510	475
Average cruising speed	kn.	165	170	165	165
Cruising altitude(s)	ft.	5,000	5,000	5,000	5,000
Combat radius	n.mi.	205	500	185	185
Average cruising speed	kn.	165	170	165	165
Total Mission time	hrs.	2.7	6.2	4.5	2.5
COMBAT LOADING CONDITION					
	(2)	CLEAN 60% Fuel			
COMBAT WEIGHT	lb.	18,505			
Engine power	(B)	Military			
Fuel	lb.	1,368			
Combat speed/combat altitude	kn./ft.	263/Sea Level			
Rate of climb/combat altitude	fpm/ft.	2,580/Sea Level			
Combat ceiling (500 fpm)	ft.	24,300			
Rate of climb at S.L.	fpm.	2,580			
Max. speed at S.L.	(C) kn.	263			
Max. speed/altitude	kn./ft.	280/15,100			
LANDING WEIGHT	lb.	17,371			
Fuel	lb.	234			
Stall speed - power-off	kn.	82.5			
Stall speed - with approach power	kn.	77.7			

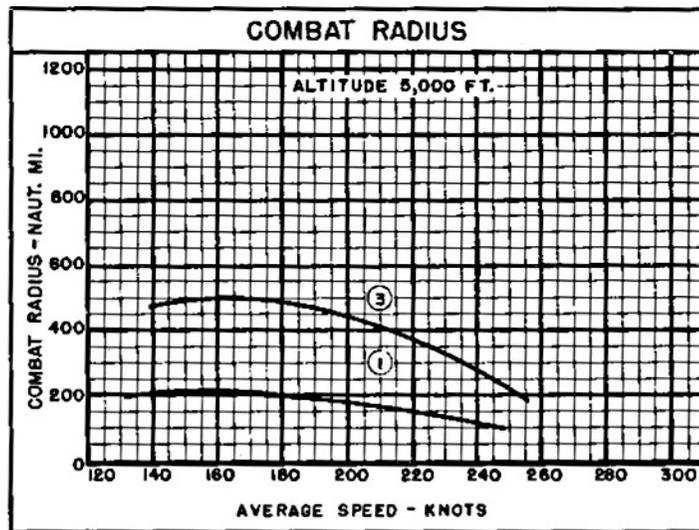
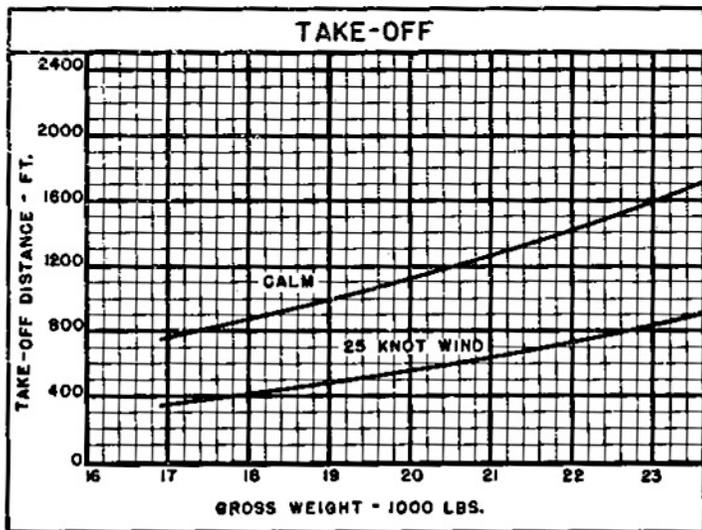
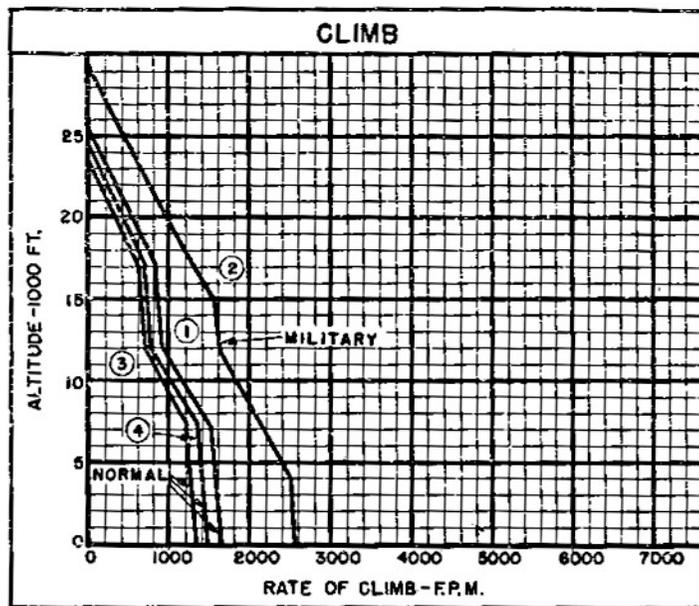
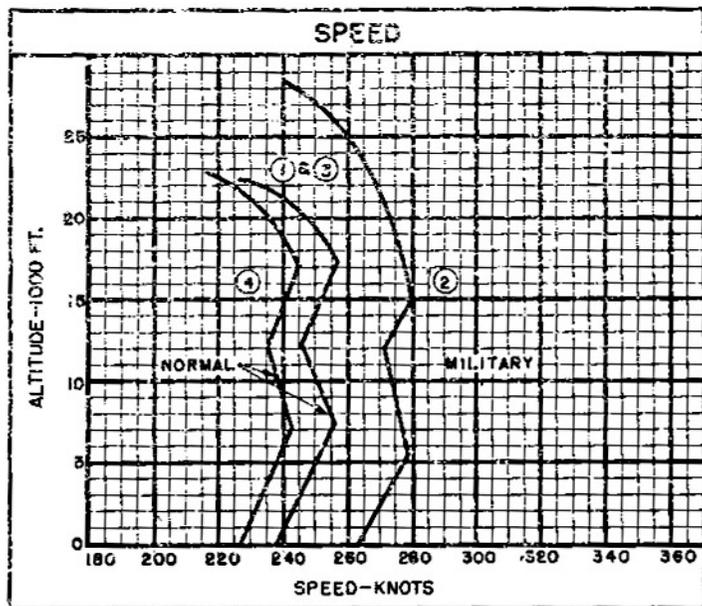
NOTES

(A) Normal rated power.

(B) If the water injection kit is installed including 12½ gal. A.D.I. fluid the airplane weight is increased 136 lbs., the maximum available combat BRP is 3,150 horsepower and the sea level high speed is 278 knots and the sea level rate of climb is 3,140 ft./min.

(C) If the 1,660 lb. store is aboard, the sea level high speed is 272 knots with combat power and 258 knots with military power.

Continued on NOTES Page



○ LOADING CONDITION COLUMN NUMBER

NOTES

(Continued from PERFORMANCE SUMMARY Page)

PERFORMANCE BASIS: Performance is calculated and based on contractor's flight tests of Models AD-4B, AD-5 and AD-6.
 COMBAT RADIUS AND RANGE are based on fuel consumption data from AD-4B, AD-5 and AD-6 flight tests and increased 5%.
 All loadings include centerline and innerwing bomb racks, 12 Aero 14 racks, and four 20mm guns equipped with flash hiders.

(Continued from ELECTRONICS Page)

ECM DF.....AN/APA-69A
 ECM Rec.....AN/APR-13
Provisions
 VHF Trans.-Rec.....AN/ARC-1
 Bomb Director.....MK-3 MOD-5

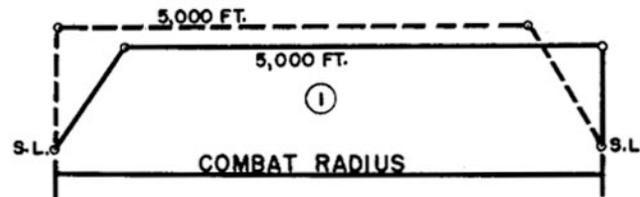
(Continued from ORDNANCE Page)

Torpedoes.....Two
 Frag. Cl.....2-500 lb. 2-100 lb.
 Incend. Cl.....2-500 lb. 2-100 lb.
 Chem. Tanks.....2-Aero 14A
 Fuel Tanks.....2-300 gal. 2-150 gal.
 Prac. Bombs.....2-Aero 4A Container
 2-Aero 5A Container
 Rockets.....2-11.75 in.
 Misc. Stores.....2-Aero 2A Sono/fl. disp.
 1-APS-31B Radar Store 1-APS-19 Radar Store
 1-MX-900A Window disp. 2-Para. flare cont.
 1-Sono/Searchlight
Outer Wing (12-Aero 14 Racks)
 Bombs.....6-500 lb. 12-100 lb.
 Depth Bombs.....12-350 lb.
 Frag. Bombs.....6-500 lb. 12-100 lb.
 Incend. Cl.....6-500 lb. 12-100 lb.
 Rockets.....12-HPAG 5 in.
 12-HVAR 5 in.
 12-Aero 3A Packages
FIXED GUNS/RDS. AMM.
 4-20mm type M3/200 rds. per gun Gun sight, Mk. 20 MOD 4
 Mounted in wing leading edge Arm. Cont. Syst. (LABS) Aero 18C

SPOTTING: A total of 83 airplanes can be accommodated in a landing spot on the flight and hangar decks of a CVA-19 class angled deck carrier.

LOW ALTITUDE ATTACK AND GROUND SUPPORT BOMBER MISSION - COMBAT RADIUS PROBLEM

WARM-UP, TAXI, TAKE-OFF: 10 minutes at normal power.
 CLIMB: On course to 5,000 feet with normal power.
 CRUISE-OUT: At 5,000 feet at velocity for long range.
 DESCEND: To sea level. (No fuel used, no distance gained.)
 DROP BOMBS, FIRE ROCKETS.
 COMBAT: 15 minutes at sea level. (5 minutes at military power and 10 minutes at normal power.)
 CLIMB: On course to 5,000 feet with normal power.
 CRUISE BACK: At 5,000 feet at velocity for long range.
 RESERVE: 20 minutes at velocity for long range at sea level plus 5% of initial fuel load.
 COMBAT RADIUS = CLIMB + CRUISE-OUT = CLIMB + CRUISE-BACK
 MISSION TIME = TIME REQUIRED FOR CLIMB + CRUISE-OUT + COMBAT + CLIMB + CRUISE-BACK



① LOADING CONDITION COLUMN NUMBER