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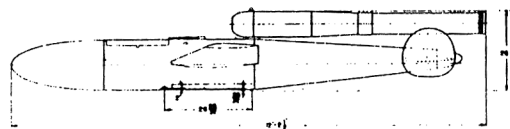
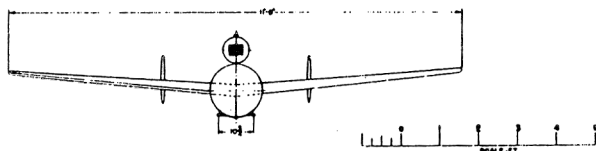
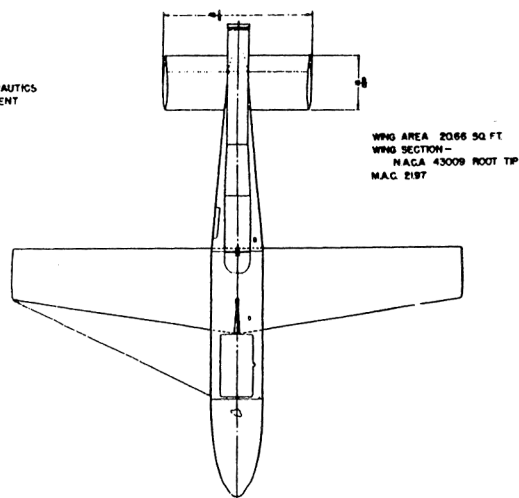
STANDARD AIRCRAFT CHARACTERISTICS

KD2G-2

GLOBE

6

BUREAU OF AERONAUTICS
NAVY DEPARTMENT



DESCRIPTIVE ARRANGEMENT

4yo

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

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MISSION AND DESCRIPTION

The KD2G-2 is a remotely controlled target pilotless aircraft for air-to-air and anti-aircraft gunnery training. It may be launched and remotely controlled from shipboard, from the ground, or from the air.

Designed to be eventually expendable, after a service life of 25 flying hours.

Fuselage of steel tube and dural monocoque. Wing and tail surfaces of dural. Adequate buoyancy for undamaged target P/A to float at least 15 minutes in out-of-fuel water landing.

Control may be maintained to 6,000 yards distance. Gyro-servo stabilised in roll.

DIMENSIONS

WING AREA.....20.66 sq. ft.
SPAN.....11' - 8"
LENGTH.....12' - 3"
HEIGHT.....2' - 3"
M.A.C.....1' - 10"

WEIGHTS

Loading	Lbs.	L.F.
EMPTY.....	191.....	
DESIGN.....	320.....	6.67
LAUNCH.....	311.....	6.67

All weights are actual.

FUEL AND OIL

Gal.	No. Tanks	Location
20	1	Fuselage Integral

FUEL GRADE...73 or more
FUEL SPEC.....AN-F-48

OIL

No lubricating system.

ELECTRONICS

CONTROL REC.....AN/ARN-26Y
(Responds to ground or shipboard VHF transmitter RC-56A)

POWER PLANT

NO. & MODEL.....(1) PJ32-S-4
MFR.....Solar
DIAMETER.....8"
LENGTH.....78½"

RATINGS

Thrust @ Alt.

NORMAL 107 S.S.L.

SPEC. NO. SD-437

ORDNANCE**LAUNCHING**

Ground and Shipboard: AT Mk.
1 Catapult, 65 Knots End
Speed
Aircraft: JD-1, F7F-2D

RECOVERY

By 32 foot diameter parachute, opened by operator. Rate of descent, 18 ft./sec. Parachute disconnects on ground contact.



PERFORMANCE SUMMARY					
LOADING CONDITION		(1) TARGET (Recommended Power)	(2) TARGET (Max. Obtain- able Power)		
TAKE-OFF WEIGHT	lbs.	311	311		
Fuel	lbs.	120	120		
Bombs	lbs.	—	—		
Wing/Power Loading (A) lbs./sq.ft.; lbs/bhp.		14.9/-	14.9/-		
Stall Speed--Power off	kn.	57.1	57.1		
Stall Speed--Power off - No Fuel	kn.	44.8	44.8		
Stall Speed--Power on	kn.	54.0	54.0		
Maximum Speed/Alt (B)	kn/ft.	200/S.L.	210/S.L.		
Take-off Distance, deck -- calm	ft.	Air or	Air or		
Take-off Distance, deck	kn. ft.	Catapult	Catapult		
Take-off Distance, Airport	ft.	Launched	Launched		
Rate of climb -- sea level (B)	ft/min.	2,080	2,180		
Service Ceiling (See Note) (B)	ft.	10,500	10,800		
Time-to-climb 4,000 ft. (B)	min.	2.4	2.0		
Time-to-climb 8,000 ft. (B)	min.	6.7	4.9		
Combat Range/V av (C) S. L. ft. n.mi/kn.		87/200	—		
Combat Radius/V av	ft. n.mi/kn.	—	—		
Combat Endurance (C) S. L. ft. min/kn.		26/200	—		
LOADING CONDITION					
GROSS WEIGHT	lbs.				
Engine power					
Fuel	lbs.				
Bombs/Tanks					
Max. speed at sea level	kn.				
Max. speed/Alt	kn/ft.				
Combat speed/Alt	kn/ft.				
Rate of climb SL	ft/min.				
Ceiling for 500 fpm R/C*	ft.				
Time-to-climb/Alt.	min/ft.				

NOTES

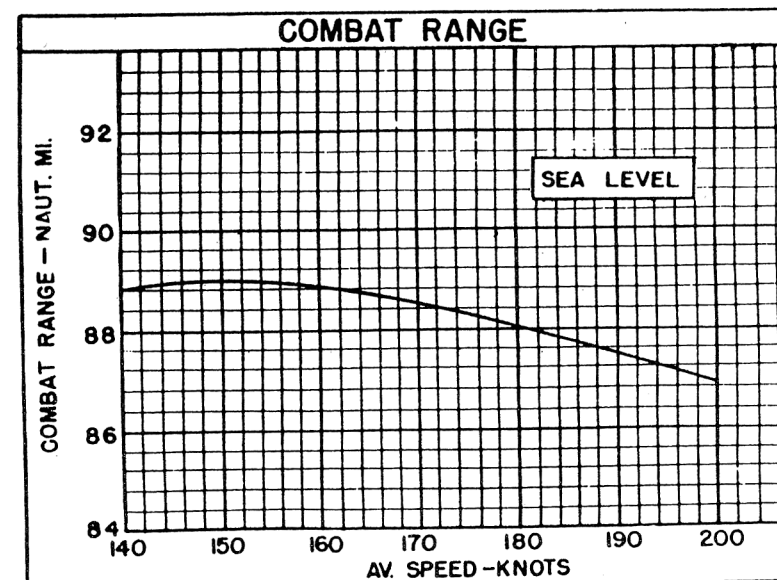
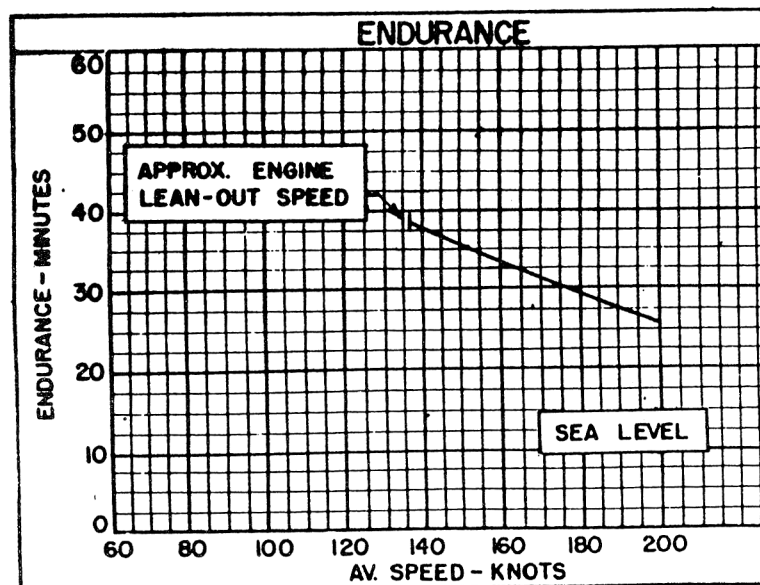
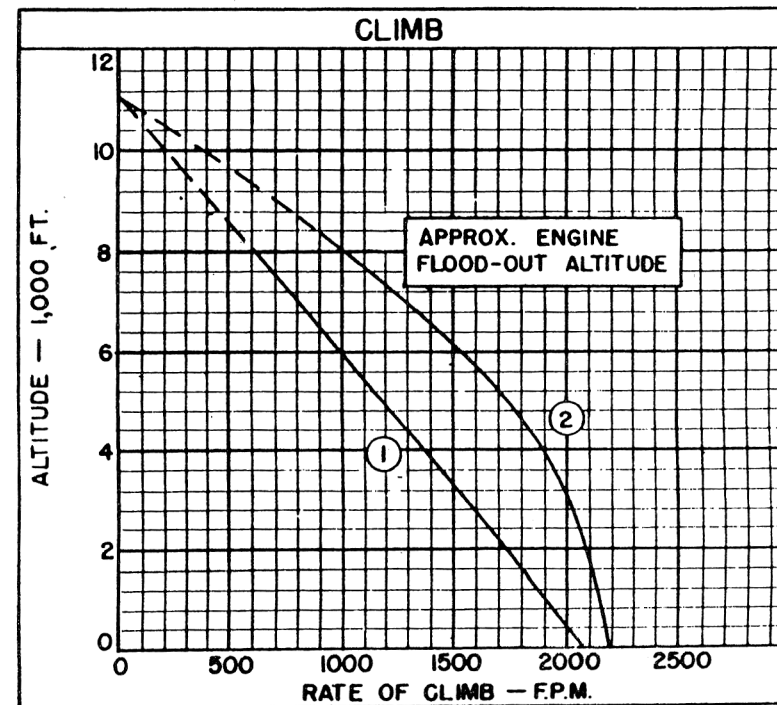
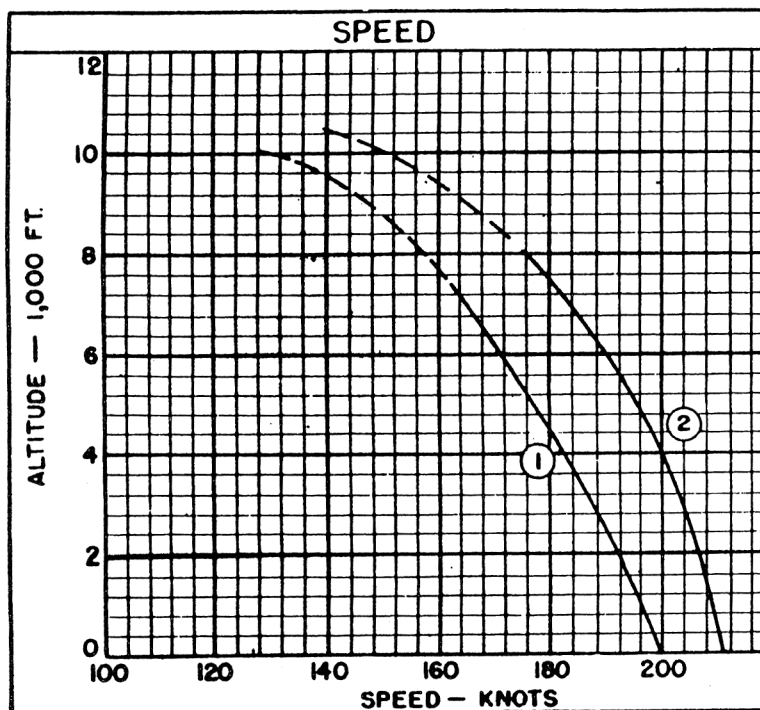
- (A) BHP at Maximum Critical Altitude
 (B) Normal BHP
 (C) No allowance for warm-up, take-off or reserve

Performance is based on preliminary NAMTC flight tests. Range and endurance are based on NAMTC flight test fuel consumptions increased by 5%.

 Operation at maximum obtainable power is not recommended because of possibility of engine flame-out.

Service ceilings may not be obtainable because of engine flood-out at lower altitudes.

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○ LOADING CONDITION COLUMN NUMBER

Standard Aircraft Characteristics NAVAER 1335E (REV. 2-68)

NOTES

Power settings cannot be altered in flight, but may be selected before each launching by manually adjusting the setting of the fuel pressure regulator.

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