## DECLASSFIED



## STANDARD AIRCRAFT CHARACTERISTICS

## AD-5S "SKYRAIDER" <br> DOUGLAS



## DECLASSEFIED

| POWER PLANT |  |  |  |
| :---: | :---: | :---: | :---: |
| NO. \& MODET ..... (1) R-3350-264 MrR. ..........................Wright |  |  |  |
|  |  |  |  |
| SUP PRCE $\qquad$ 1 Stage, 2 Speod PROP. GRAR RATIO. ........ 0.4375 |  |  |  |
|  |  |  |  |
| PROP M MRR. . . ....... Aero. Prod. <br> PROP, DES. NO. ...... M2OA-162-0 |  |  |  |
|  |  |  |  |
| NO, BLA./DIA.........4/13'-6" |  |  |  |
| RATINGS |  |  |  |
|  | Bhp | Rpm | Alt. |
| T.O. | 2,700 | 2,900 | S.I. |
| MIL 。 | 2,700 | 2,900 | 3,700 ${ }^{1}$ |
|  | 2,100 | 2,600 | $14.500^{\prime}$ |
| NORM. | 2,300 | 2,600 | S. L |
|  | 1,900 | 2,600 | $17.100^{\prime}$ |
| SPEC. NO. N-836 |  |  |  |


| ORDNANCE |  |
| :---: | :---: |
|  | GUNS |
|  |  |
|  |  |
|  | BOMBS \& ROCKETP |
| Type | Size Location No |
| Eombs | 250\% Wings \& Fuse. 15 |
| Bombs | 500\# Wings \& Fuse. 9 |
| Bombs | 1000\# Wings \& Fuse. 3 |
| Bombs | 2000\# Wings \& Fuse. 3 |
| D. B. | 350\# Wings \& Fuse. 15 |
| Mines | 500\% Wings \& Fuse. 9 |
| Mines | 2000\# Wings \& Fuse. 3 |
| Torp. | $2160 \#$ Wings \& Fure. 3 |
| Rock. | 11.75" Wings 2 |
| HPAG | $5^{\prime \prime}$ Wings 12 |
| HVAR | $5^{\prime \prime}$ Wings 12 |
| 12 Combination Bomb Rack and |  |
| MAX. | BOMB LOAD......9,000 1bs. |

## MISSION AND DESCRIPTION

The principal mission of the $A D=5 S$ is that of anti-sabmarine search and attack. The airplane normally operates as an attack member of an ASH team; however, it is equipped with a sufficient ly powerfiul radar to permit operation as a combined search and attack airplane. Magnetic detection and sonobuoy equipment are installed to facilitate submarine tracking. A radar-controlled searchlight and electronic bombing equipment are provided for night ASW operation. While designed specifically for operation from CVF-105 class carriers the airplane can operate from land bases.

The AD-5S is a development of the AD series airplanes incorporating a unified 3 place cockpit arrangement to facilitate interchange of crew positions and maintenance of electronic equipment in flight. The side-by-side seating for pilot and MAD operator provides improved all-weather operation and doubles the possibility of visual submarine contact. A radarsomobuoy operator is located aft of the pilot.

The AD-5S may be converted rapidly to a night attack airplane by interchange of a few items of equipment. Since the structural and armament provisions of all AD-5 series airplanes are identical, the $A D-5 S$ also may be used as a general purpose attack airplane by removing the special h.SW equipment and installing a dive brake. (Continued on NOTES)



| ELEGTRONICS |  |
| :---: | :---: |
| VEF TRANS-REC. . . . . AN/ARC |  |
| RADIO ALT | N/APN-1 |
| TASV. REC | N/ |
| MARKER BEACOI | AN/A |
| IFT. . . . . . . . . . . . . . .AN/ |  |
| MEF TRATS-REC |  |
| INTERPEONE. |  |
| WIRE RECORDER. . . ..... IC |  |
|  |  |
| radar reiay rec... AN/ARR-27a |  |
|  |  |
|  |  |
| (Continued |  |

DECLASEIFT



## गra NOTES

Spotting: 200 ft. length is required to spot 19 airplanes (wings folded) on the 96 ft. Wide deck immediately aft of the forward ramp on CVm9 carriers.

ASW RARTGE ATD RADIUS PROBLIMM
WARMmU, TAXI, TAKE-OFF: 10 minutes at normal power.
CLIMB: On course to 1,500 feet at normal power.
COMBAT RANGT: Cruise at Vfor long range at 1.500 feet. External fuel tanks dropped when empty. RESFRVE: 20 minutes at $V$ for long range plus 5 名 of initial fuel load.

## COABAT RADIUS $=40 \%$ OF COMBAT RANGE

MISSION AND DESCRIPTION (Continued)
First flight - December 1952
Service use to start - None (only one to be built)
ELECTRONICS (Continued)

(Flanned Service Installation)

OMII-RANGR RECEIVER.
(Planned Service Installation) RADIO COMPASS.
-AN/ARN-6 UHF D.F.............................AN/ARA-25 VHF TRANS, -REC........................AN/ARC-I (A1ternate Provisions for AN/ARC-27A)

