

## SERVICE



## MISSION AND DESCRIPTION

The principal mission of the $A D-4 W$ airplane is to provide airborne early warning of enemy attack. It is also configured to do ASW search missions. It is a three-place attack, carrierbased eirplane, not equipped with dive brakes.

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 fleps are fitted.


| FUEL AND OIL |  |  |
| :--- | :---: | :---: |
| Gal. | No. Tanks | Location |
| 180 | 1 | Fuse,s.S. |
| 230 | 4 | Wings,S.S. |
| 300 | 2 | Wings,Drop |

FUEL GRADE......115/145
FUEL SPEC......AN-F-48
OIL
CAPACITY (Gals.)............ 31
GRADE...................... 1120
SPEC..............................

| ELECTRONICS |
| :---: |
| VHF RELAX...........AN/ARC-28 |
| VHF COMM.............AN/ARC-1 |
| LF COMA.............. AN/ARC-5 |
| VHF NAVIGATION......AN/ARR-2A |
| RADIO ALTM........... AN/APN-1 |
| SEARCH RADAR.......AN/APS-20A |
| IFF...............AN/APX-IAM |
| IFF RELAY..........AN/APX-13A |
| RADAR RELAY. . . . . . . AN/ART-26 |
| HF TRANSCEIVER.......AN/ARC-2 |
| IFF..................AN/APX-6 |
| GR. POSIT. IND..AN/APA-57,-81 |
|  |

## POWER PLANT



ORDNANCE
NONE

| DIMENSIONS |
| :---: |
| WING AREA.......... 400 sq. ft. SPAN...................50 ${ }^{\text { }}$ - $0^{11}$ LENGTH. ................38. $3^{8}-2^{11}$ HEICHT.................. $1^{\prime}-8^{\prime \prime}$ TREAD.................. $13^{\prime}$ - $11^{\prime \prime}$ M.A.C.................. $8^{1}-4^{n}$ PROP. CLEAR..................... $6^{n}$ |




## NOTES

GENERAL ASW PATROL PROBLEM NO. ASW-1

## COMBAT RADIUS $=40 \%$ of combat range at $1,500 \mathrm{ft}$. altitude.

A11 loadings include $2 \mathrm{Mk}-51$ 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 kn . but endurance at 120 km . is presented because handing characteristics are poor at lower speeds.

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