

## EXPERIMENTAL



## MISSION AND DESCRIPTION

The primary mission of this airplane is attack.

It is a thrce-place airplane capable of takeoff with or without catapult aid from the deck of a CVB Class aircraft carrier or landing field, and landing in an arresting gear or on a landing field.

Provisions are made for folding outer wing panels and for droppable wing tip tanks. Double slotted trailing edge flaps, and nose flaps, are fitted.

The tail is conventional except provisions are made for folding the vertical tail to decrease storage space.

The fuselage provides for crew, equipment, bombs, and a turbo-jet engine. Pilot's seat only is of the ejection type.

The controls are operable by the pilot only. Power boost is provided for ailerons, elevators, and rudder, but it is possible to fly and land the airplane safely with the boosts inoperative.

Equipment for pressurizing, heating, and cooling cabin air is provided.

| WEIGHTS |  |  |
| :---: | :---: | :---: |
| Loadings | Lbs. | L. F 。 |
| EMPTY........ 37,502........... <br> BASIC........ 38,617.......... <br> DESIGN........67,024......2.5 <br> COMBAT........53,762......3.25 <br> MAX.T.O.....71,500......2.25 <br> MAX.LAND.....71,500............ <br> All weights are estimated. |  |  |
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| FUEL AND OIL |  |
| :---: | :---: |
| Gals. No. Tanks Loca | Location |
| 1,660 1* Fus | Fuse., Fwd. |
| 761 1* Fus | Fuse., Aft. |
| 1,098 2 Win | Wing Tip |
| * Self-Sealing |  |
| FUEL GRADE.......100/130 |  |
| FUEL SPEC.......AN- $\mathrm{F}-48$ |  |
|  | J33 XT40 |
| CAPACITY (Gal.) 3 | 315 |
| GRADE........... 1010 | 1010 M |
| SPEC.............AN-0-9 | AN-0-9 AN-O-3 |




## NOTES

(A) BHP at Maximum Critical Altitude
(B) Normal BHP
(C) All Cruise Calculated at NRP
(D) Figures in Parenthesis are Military with Jet.

## DECLLSSSIFIED






OLOADING CONDITION COLUMN NUMBER
1 APRIL 1949
DEEASSSFFIED

## NOTES

Performance is based on calculations. Range and radius are based on engine specification fuel consumption data increased by 5\%.

Provisions are incorporated for fuel transfer from droppable wing tip tanks to internal tanks.

COMBAT RADIUS PROBLEM NO. A-3

| WARM-UP <br> TAKE-OFF RENDEZVOUS | CLILAB ( A ) | CRUISE-OUT | DROP TANKS | CONTINUE CRUISE-OUT | RUN IN | RUN OUT | CLIMAB (B) | CRUISE-BACK | RESERVE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 min. at sea level static normal power of all engines | At max. rate with mil. power to initial cruise-out alt. (Alt. not greater than alt. for $300 \mathrm{ft} /$ min. max. rate of climb with normal power.) | With optimum range operation to reach 35,000' min. alt. at not less than 100 n. mi. from target. (State altitudes and any special engine operations involved.) | Only when empty and state when dropped. | With optimum range operation at 35,000 ft. $\min$. alt. to 50 n. mi. from target. (State any special engine operation involved.) | For 50 <br> n. mi. <br> at Vmax. <br> at <br> 35,000 <br> t. min. <br> عItitude <br> with max. <br> power <br> avail- <br> able <br> all <br> engines. <br> DROP <br> Expendable ordnance retain amm. | For 50 <br> n. mi. <br> at Vmax. <br> at <br> 35,000 <br> ft. min. <br> altitude <br> with max. <br> power <br> avail- <br> able <br> all <br> engines. | To optimum alt. for cruiseback alt. not greater than 300 ft. /min. max. rate of climb with normal power (fuel used and distance made good). | Under optimum cruise conditions, alt. not greater than altitude for $300 \mathrm{ft} . / \mathrm{min}$. max. rate of climb with normal power (State altitudes and any special engine operations involved.) | $10 \%$ of total initial fuel load. |
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| DELCLASSHFED |  |  |  |  |  |  |  |  |  |

