Characteristics Summary

TRAINER

TC-121C

LOCKHEED

Wing Area . . . . . . . . . . . . 1653.0 sq ft
Length . . . . . . . . . . . . 116.2 ft
Span . . . . . . . . . . . . 123.0 ft
Height . . . . . . . . . . . . 26.2 ft

AVAILABILITY

Number available

ACTIVE  RESERVE  TOTAL

PROCUREMENT

Number to be delivered in fiscal years


STATUS

1. Development of RC-121C aircraft.
2. RC-121C aircraft were modified by removal of radar and electronics equipment, pertinent to search missions, and redesignated TC-121C.

Navy Equivalent: None

Mfna Model: __

POWER PLANT

(4) R-3350-91
Wright

ENGINE RATINGS
BHP-RPM-ALT-MIN
T.O. 3250-2900-S.L.-5
MIL: 3250-2900-5500-5
2550-2600-17,000-5
Nor: 2600-2600-S.L.-Cont
2650-2600-6500-Cont

FEATURES

Following items were deleted during modification to TC-121C configuration:
- Search Radar
- Grand Position Indicator
- Height Finder
- ECM Direction Finder
- Moving Target Indicator
- Radar Relay Transmitter
- Radar Relay Receiver

PERSONNEL

Crew . . . . . . . . . . . . . 5
Pilot, Co-pilot, Flt Engr.
Navigator, & Radio Operator
Provisions for following personnel were removed during modification from RC to TC-121C:
- CIC Officer
- Control Officers (5)
- Plotter
- Talker
- ECM Operator
- Height Finder Operator
- Relief Crew (7)
- Technicians (3)

14 SEP 60

UNCLASSIFIED

TC-121C
**Performance**

<table>
<thead>
<tr>
<th>Combat Radius</th>
<th>Combat Range</th>
<th>Combat Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1490</strong> naut. mi</td>
<td><strong>3160</strong> naut. mi</td>
<td><strong>2.97</strong> knots at 10,000 ft alt., meto power</td>
</tr>
<tr>
<td>with 0 lb payload</td>
<td>with 0 lb payload</td>
<td>maximum speed</td>
</tr>
<tr>
<td>at 216 knots avg.</td>
<td>at 216 knots avg.</td>
<td>314 knots at 20,000 ft alt., meto power</td>
</tr>
<tr>
<td>in 13.9 hours.</td>
<td>in 14.7 hours.</td>
<td></td>
</tr>
</tbody>
</table>

**Climb Ceiling Take-Off**

<table>
<thead>
<tr>
<th>Climb Ceiling</th>
<th>Take-Off</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1295</strong> fpm, sea level, take-off weight</td>
<td><strong>24,200</strong> ft, ground run</td>
</tr>
<tr>
<td>meto power</td>
<td>no assist</td>
</tr>
<tr>
<td><strong>23,800</strong> fpm, sea level, combat weight</td>
<td><strong>4200</strong> ft, over 50 ft height</td>
</tr>
<tr>
<td>meto power</td>
<td>no assist</td>
</tr>
</tbody>
</table>

**Load Weights**

<table>
<thead>
<tr>
<th>Payload: none</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty... 78,049 lb</td>
</tr>
<tr>
<td>Combat... 105,900 lb</td>
</tr>
<tr>
<td>Take-off 124,300 lb</td>
</tr>
</tbody>
</table>

**Stalling Speed**

<table>
<thead>
<tr>
<th>Stalling Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>92 knots</td>
</tr>
<tr>
<td>Flaps down, take-off weight</td>
</tr>
</tbody>
</table>

**Time to Climb**

<table>
<thead>
<tr>
<th>Time to Climb</th>
</tr>
</thead>
<tbody>
<tr>
<td>S.L. to 10,000 ft</td>
</tr>
<tr>
<td>6.8 min</td>
</tr>
<tr>
<td>T.O. wt., meto power</td>
</tr>
</tbody>
</table>

**Notes**

1. Performance Basis:
   (a) Flight tests
2. Performance Reference: T.O. 1C-121C-1 dated 1 June 60
3. Revision Basis: Initial issue