

# STANDARD AIRCRAFT CHARACTERISTICS

RC-45J

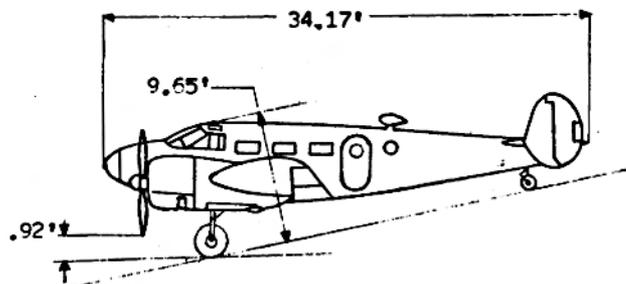
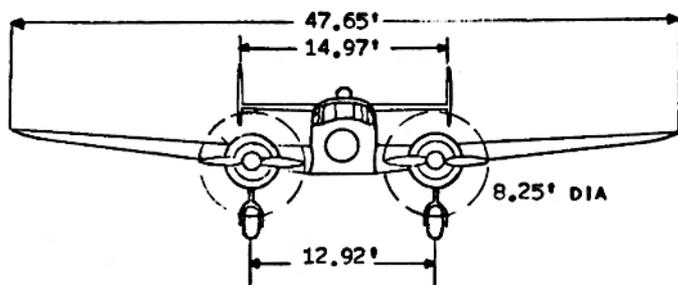
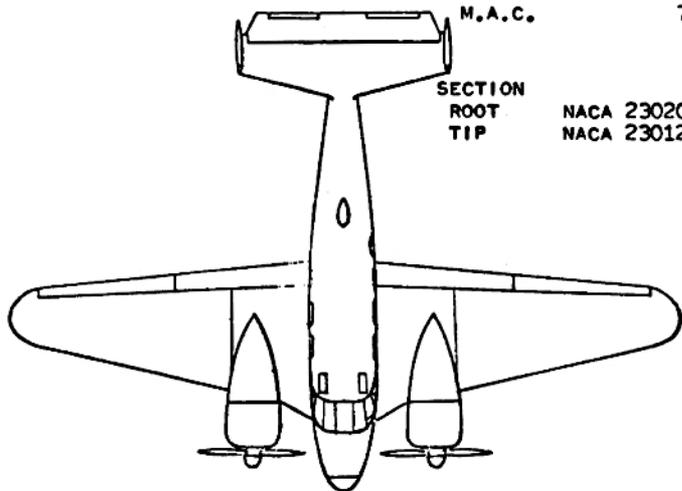
SERVICE

NAVAIR 00-110ATC45-1

BUREAU OF NAVAL WEAPONS  
NAVY DEPARTMENT

WING AREA 349 SQ FT  
ASPECT RATIO 6.5  
M.A.C. 7.3 FT

SECTION  
ROOT NACA 23020 (MOD)  
TIP NACA 23012 (MOD)

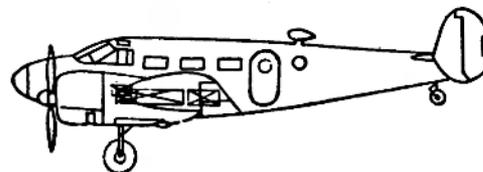
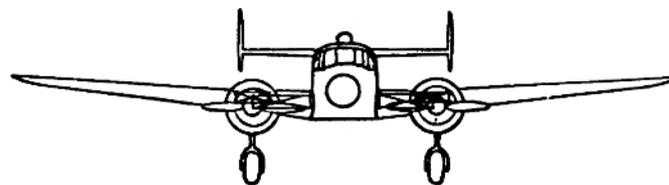
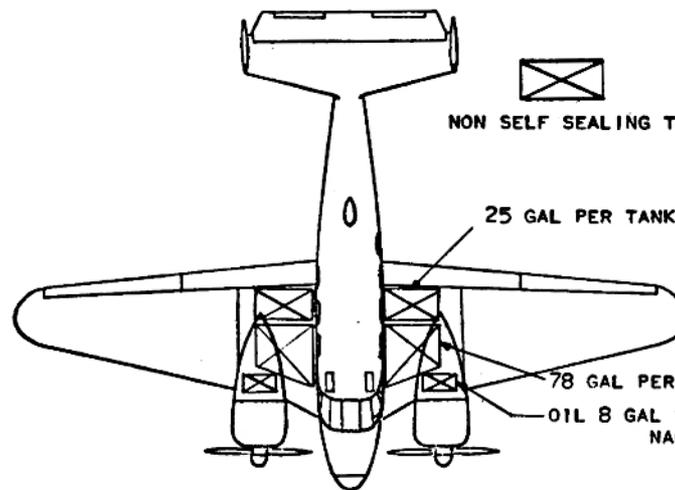


DESCRIPTIVE ARRANGEMENT

BUREAU OF NAVAL WEAPONS  
NAVY DEPARTMENT



NON SELF SEALING TANKS

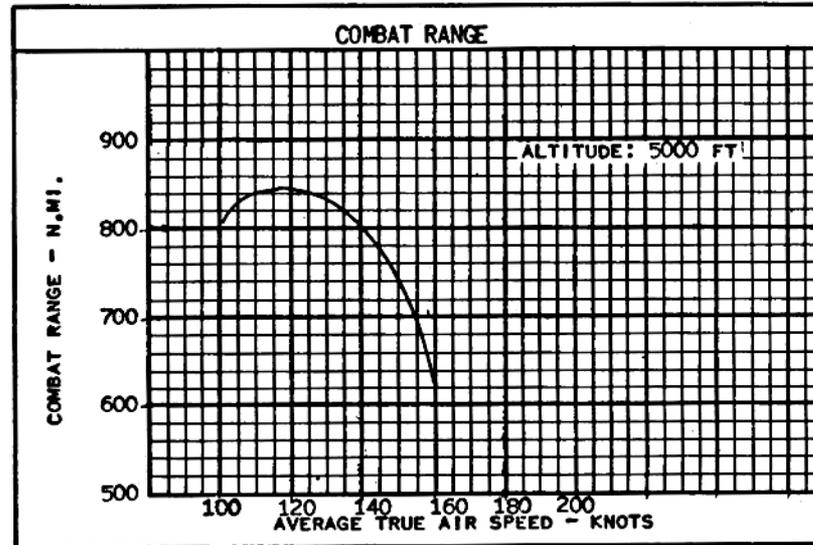
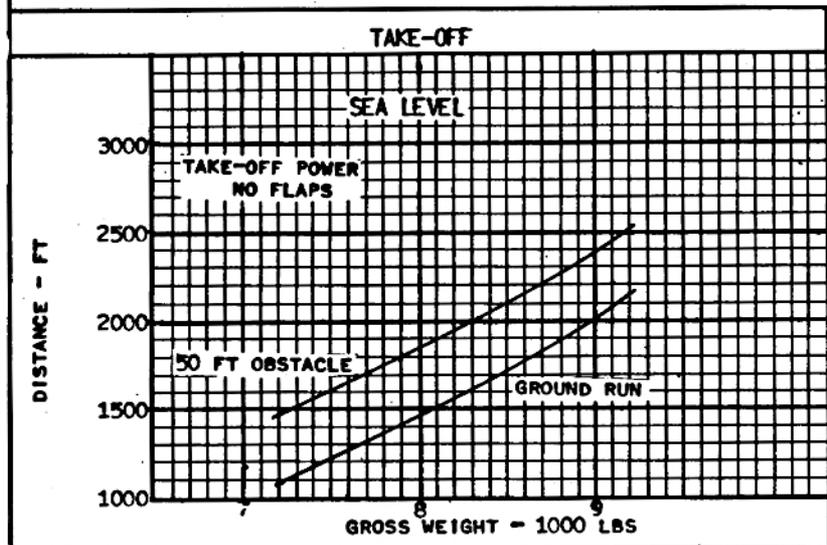
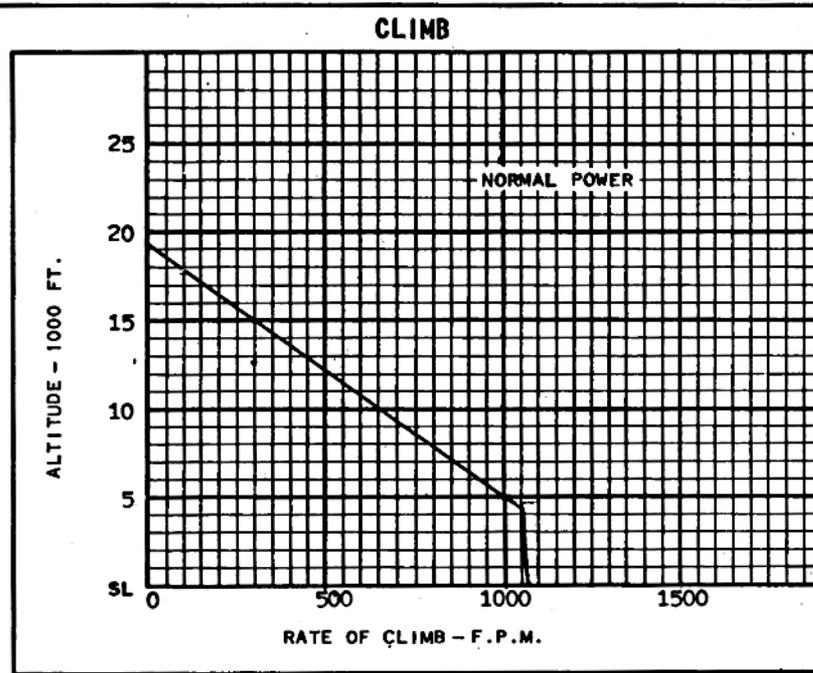
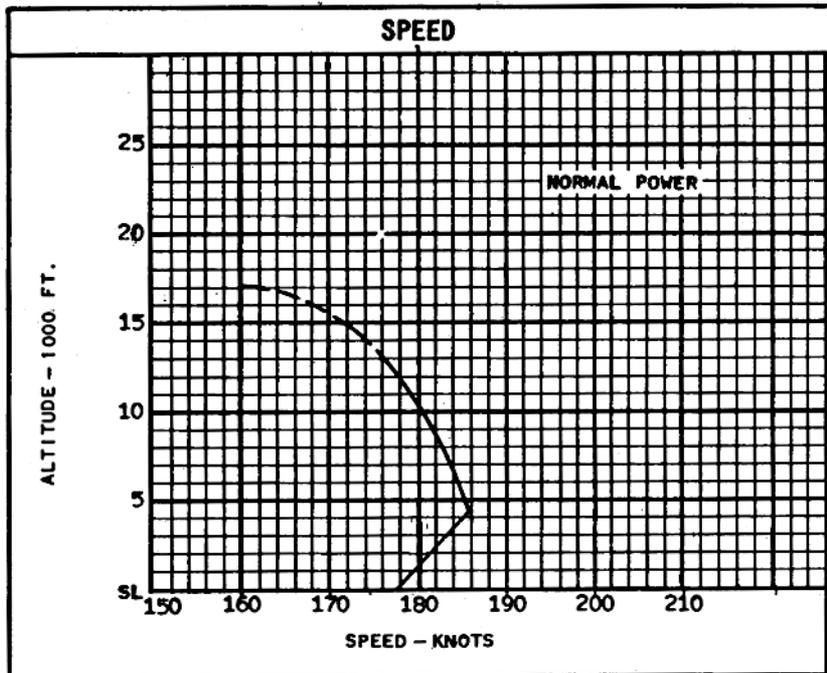


ARMAMENT AND TANKAGE



## PERFORMANCE SUMMARY

| TAKE-OFF LOADING CONDITION   |             | (1) PHOTOGRAPHIC<br>TRAINER |  |  |  |
|--|-------------|-----------------------------|--|--|--|
| TAKE-OFF WEIGHT  | LB.         | 9200                        |  |  |  |
| FUEL INTERNAL  | LB.         | 1236                        |  |  |  |
| PAYLOAD  | LB.         | 680                         |  |  |  |
| WING LOADING   | LB./SQ. FT. | 26.4                        |  |  |  |
| STALL SPEED - POWER-OFF  | KN.         | 66                          |  |  |  |
| TAKE-OFF RUN AT S.L. - CALM (A)  | FT.         | 2150                        |  |  |  |
| TAKE-OFF RUN AT S.L. - KN. WIND (A)  | FT.         | --                          |  |  |  |
| TAKE-OFF TO CLEAR 50 FT. - CALM (A)  | FT.         | 2520                        |  |  |  |
| MAX. SPEED/ALTITUDE (B)  | KN./FT.     | 185/4300                    |  |  |  |
| RATE OF CLIMB AT S.L. (B)  | FPM.        | 1060                        |  |  |  |
| TIME: S.L. TO 5000 FT. (B)   | MIN.        | --                          |  |  |  |
| TIME: S.L. TO 10000 FT. (B)  | MIN.        | --                          |  |  |  |
| SERVICE CEILING (100 FPM.) (B)   | FT.         | 17800                       |  |  |  |
| COMBAT RANGE   | N.MI.       | 841                         |  |  |  |
| AVERAGE CRUISING SPEED   | KN.         | 120                         |  |  |  |
| CRUISING ALTITUDE(S)   | FT.         | 5000                        |  |  |  |
| COMBAT RADIUS/MISSION TIME   | N.MI./HR.   | 420/7.0                     |  |  |  |
| AVERAGE CRUISING SPEED   | KN.         | 120                         |  |  |  |
| <b>COMBAT LOADING CONDITION</b>  |             |                             |  |  |  |
| COMBAT WEIGHT  | LB.         | 8706                        |  |  |  |
| ENGINE POWER   |             | MAXIMUM                     |  |  |  |
| FUEL   | LB.         | 742                         |  |  |  |
| COMBAT SPEED/COMBAT ALTITUDE   | KN./FT.     | 188/5000                    |  |  |  |
| RATE OF CLIMB/COMBAT ALTITUDE  | FPM./FT.    | 1140/5000                   |  |  |  |
| COMBAT CEILING (500 FPM.)  | FT.         | 1370                        |  |  |  |
| RATE OF CLIMB AT S.L.  | FPM.        | 186                         |  |  |  |
| MAX. SPEED AT S.L.   | KN.         | 191/1400                    |  |  |  |
| MAX. SPEED/ALTITUDE  | KN./FT.     |                             |  |  |  |
| LOADING WEIGHT   | LB.         | 8096                        |  |  |  |
| FUEL   | LB.         | 132                         |  |  |  |
| STALL SPEED - POWER-OFF/APPR. POWER  | KN./KN.     | 62/52                       |  |  |  |
| DIST. - GRD ROLL/OVER 50 FT. OBS.  | FT./FT.     | 750/1470                    |  |  |  |
| NOTES: A. Take-off Power, No Flaps<br>B. Normal Rated Power<br>C. 100% Flaps, APPR Power<br>PERFORMANCE BASIS: Flight Test Data 10/24/52 |             |                             |  |  |  |



○ LOADING CONDITION CODE NUMBER

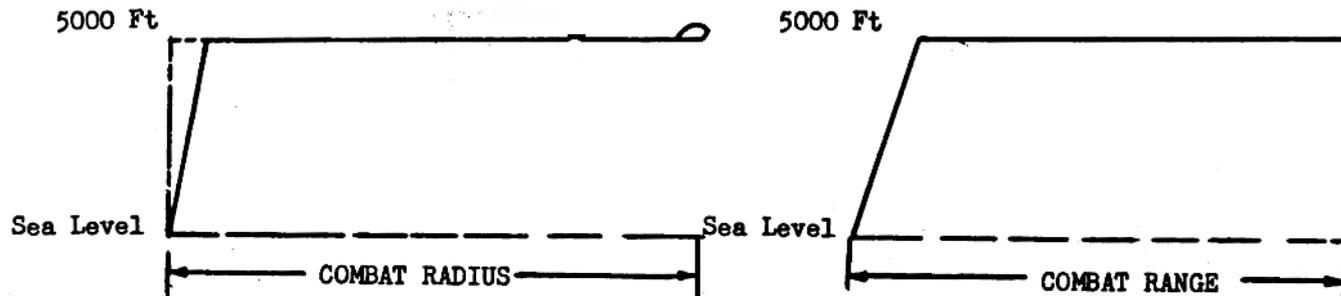
## NOTES

RADIUS MISSION

Warm-up, Take-off, Climb on course to 5000 feet at Normal Power, Cruise out and return at long range speeds. Range free allowances are 10 minutes of Normal Power for warm up and take-off plus fuel for 30 minutes at speeds for long range at sea level and 5% of initial fuel for reserve.

RANGE MISSION

Warm-up Take-off, Climb on course to 5000 feet at Normal Power, cruise out at long range speeds until only reserve fuel remains. Range free allowances are 10 minutes of Normal Power for warm-up and take-off, plus fuel for 30 minutes at speeds for long range at sea level and 5% of initial fuel for reserve.



○ LOADING CONDITION COLUMN NUMBER