

3 2.  
*Boeing*

D-7582  
36

A. GENERAL PERFORMANCE DATA

PERFORMANCE SUMMARY

The following page presents a summary of performance available from Model 377. Performance is determined using powers shown on page 65.

Lines at the lower part of the plot on page 39 denote maximum weights at which the airplane complies with climb requirements of Section 04.1230 and 04.1231 of the Civil Air Regulations.

Lines near the upper part of the plot illustrate operating limitations. The service ceiling at cruising power and cowl flap deflection exceed 25,000 feet at all weights up to 135,000 lbs. The three engine operational ceiling defined by CAR 04.1231(b) exceeds 5,000 feet for gross weights up to 135,000 lbs.

It appears that takeoff at 135,000 lbs. may be immediately followed by climb to and cruising at altitudes up to 25,000 feet.

GROSS WEIGHT AND PERFORMANCE COMPARISON

WITH CAR REQUIREMENTS

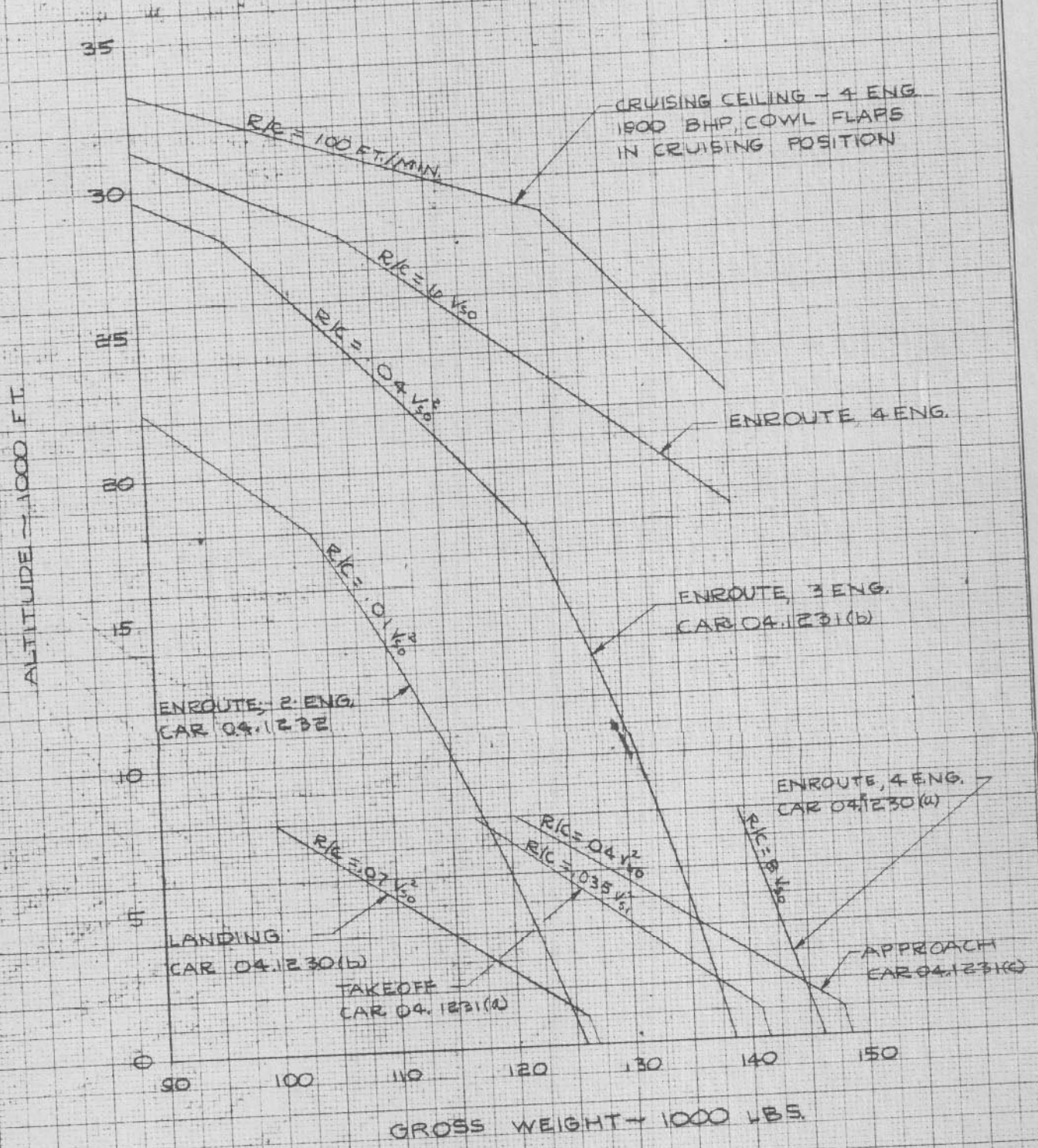
- A. Maximum allowable gross weight (CAR 04.113)
  - 1. Maximum takeoff (limited by Structural Design) 140,000 lbs.
  - 2. Maximum landing (limited by Structural Design) 121,700 lbs.
- B. Maximum structural design gross weight (CAR 04.113)
  - 1. Takeoff 140,000 lbs.
  - 2. Landing 121,700 lbs.
- C. Maximum weights to meet climb requirements of CAR 04.1230
  - Landing at:
    - Sea Level (see B-2 above) 126,500 lbs.
  - Approach at:
    - Sea Level (see B-2 above) 148,500 lbs.
  - Takeoff at:
    - Sea Level (see B-1 above) 141,500 lbs.
- D. Required length of takeoff area at maximum allowable takeoff weight (A-1) to meet requirements of CAR 04.122 at sea level.
 

130,000 lbs. gross	4,790 ft.
140,000 lbs. gross	6,000 ft.
- E. Required length of landing area at maximum allowable landing, weight (A-2) to meet requirements of CAR 04.124 at sea level (without reverse pitch propellers)
 

100,000 lbs. gross	5,400 ft.
121,700 lbs. gross	6,440 ft.
- F. Maximum takeoff weight to meet the climb requirement with one engine inoperative at 5,000' altitude (CAR 04.1231b) is
 

135,000 lbs.

MAXIMUM CONTINUOUS BHP = 2800  
 SEA LEVEL TAKEOFF BHP = 3500



CALC	THURLOW	11/18/45	REVISED	DATE
CHECK			SMABY	11/8/46
APR	BLUMF. J. THUR	2/8/46	THURLOW	2/7/46
APR	Heimer	7/17/46	Holbrook	7/15/46

PERFORMANCE AVAILABLE

BOEING AIRCRAFT COMPANY  
 SEATTLE WASHINGTON

377  
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D-7582

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OF

CONTRACT NO.