

October 1976

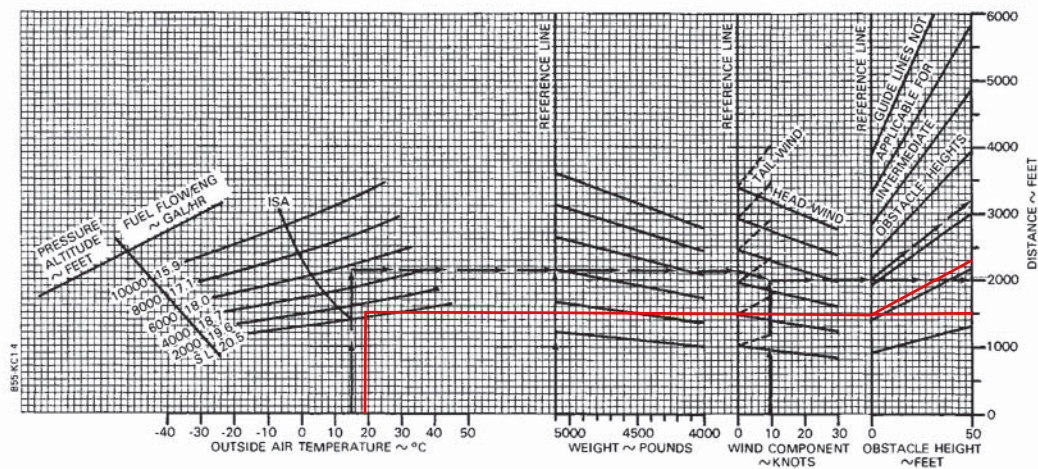
5-25

**ASSOCIATED CONDITIONS**  
 POWER TAKE-OFF AT 2625 RPM  
 MIXTURE LEAN TO APPROPRIATE  
 FUEL FLOW UP  
 FLAPS RETRACT AFTER POSITIVE  
 LANDING GEAR CLIMB ESTABLISHED  
 COWL FLAPS OPEN  
 RUNWAY PAVED, LEVEL, DRY SURFACE

## TAKE-OFF DISTANCE

LIFT-OFF SPEED (ALL WEIGHTS)  
 84 KNOTS  
 50 FT SPEED (ALL WEIGHTS)  
 91 KNOTS

**EXAMPLE**  
 OAT 15°C  
 PRESSURE ALTITUDE 5650 FT  
 TAKE-OFF WEIGHT 5100 LBS  
 HEAD WIND COMPONENT 9.5 KTS  
 GROUND ROLL 2000 FT  
 TOTAL DISTANCE OVER 3200 FT  
 50 FT OBSTACLE  
 TAKE-OFF SPEED AT  
 LIFT-OFF 84 KTS  
 50 FT 91 KTS



BEECHCRAFT Baron B55  
 Serial TC 2003 and After

Section V  
 Performance

Revised: March 1983

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## CLIMB - TWO ENGINE

(TC-2285 and After)

CLIMB SPEED 107 KNOTS

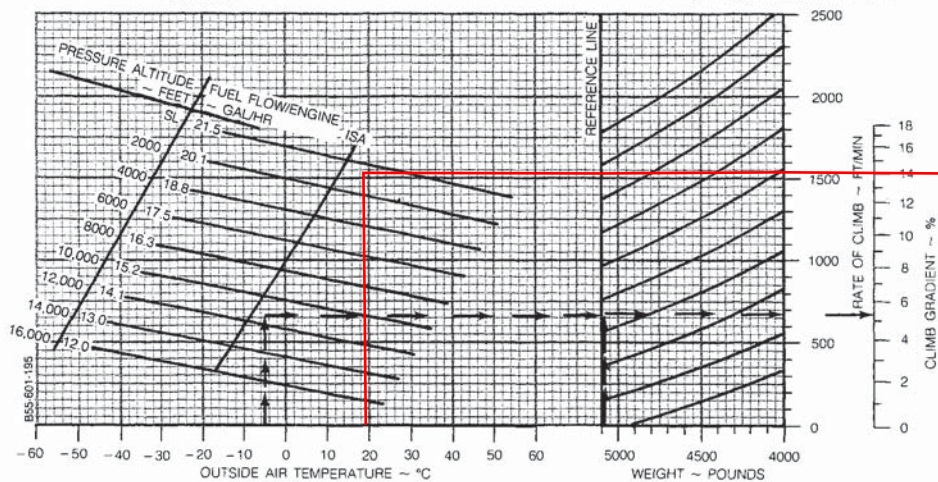
(ALL WEIGHTS)

### ASSOCIATED CONDITIONS:

POWER ..... FULL THROTTLE AT 2550 RPM  
FLAPS ..... UP  
LANDING GEAR ..... UP  
COWL FLAPS ..... OPEN  
MIXTURE ..... LEAN TO APPROPRIATE  
FUEL FLOW

### EXAMPLE:

OAT ..... -5°C  
PRESSURE ALTITUDE ..... 11,500 FT  
WEIGHT ..... 5081 LBS  
RATE OF CLIMB ..... 680 FT/MIN  
CLIMB GRADIENT ..... 5.3%



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## CLIMB-BALKED LANDING

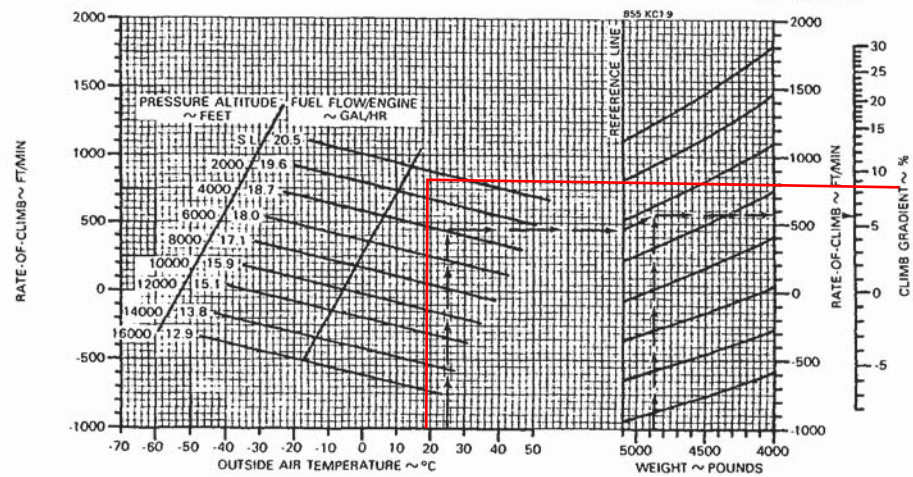
CLIMB SPEED 90 KNOTS (ALL WEIGHTS)

### ASSOCIATED CONDITIONS:

|              |                     |
|--------------|---------------------|
| POWER        | TAKE-OFF            |
| FLAPS        | DOWN                |
| LANDING GEAR | DOWN                |
| MIXTURE      | LEAN TO APPROPRIATE |
|              | FUEL FLOW           |

### EXAMPLE

|                   |             |
|-------------------|-------------|
| OAT               | 25°C (77°F) |
| PRESSURE ALTITUDE | 3965 FT     |
| WEIGHT            | 4873 LBS    |
| RATE-OF-CLIMB     | 570 FT/MIN  |
| CLIMB GRADIENT    | 6%          |



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# ASSOCIATED CONDITIONS

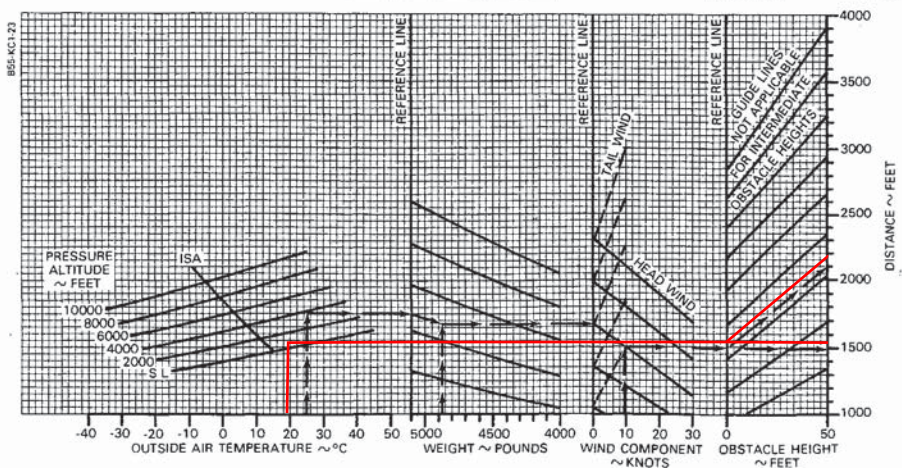
POWER RETARDED TO MAINTAIN  
900 FT/MIN ON FINAL  
APPROACH  
FLAPS DOWN  
LANDING GEAR DOWN  
RUNWAY PAVED, LEVEL, DRY  
SURFACE  
APPROACH SPEED IAS AS TABULATED  
BRAKING MAXIMUM

## LANDING DISTANCE

| WEIGHT<br>~<br>LBS | SPEED AT 50 FEET |  |
|--------------------|------------------|--|
|                    | KNOTS            |  |
| 5100               | 90               |  |
| 4800               | 87               |  |
| 4600               | 85               |  |
| 4400               | 84               |  |
| 4200               | 81               |  |

## EXAMPLE

OAT 25°C  
PRESSURE ALTITUDE 3965 FT  
WEIGHT 4873 LBS  
WIND COMPONENT 9.5 KTS  
GROUND ROLL 1500 FT  
TOTAL OVER 50 FT 2100 FT  
OBSTACLE APPROACH 87 KTS



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