

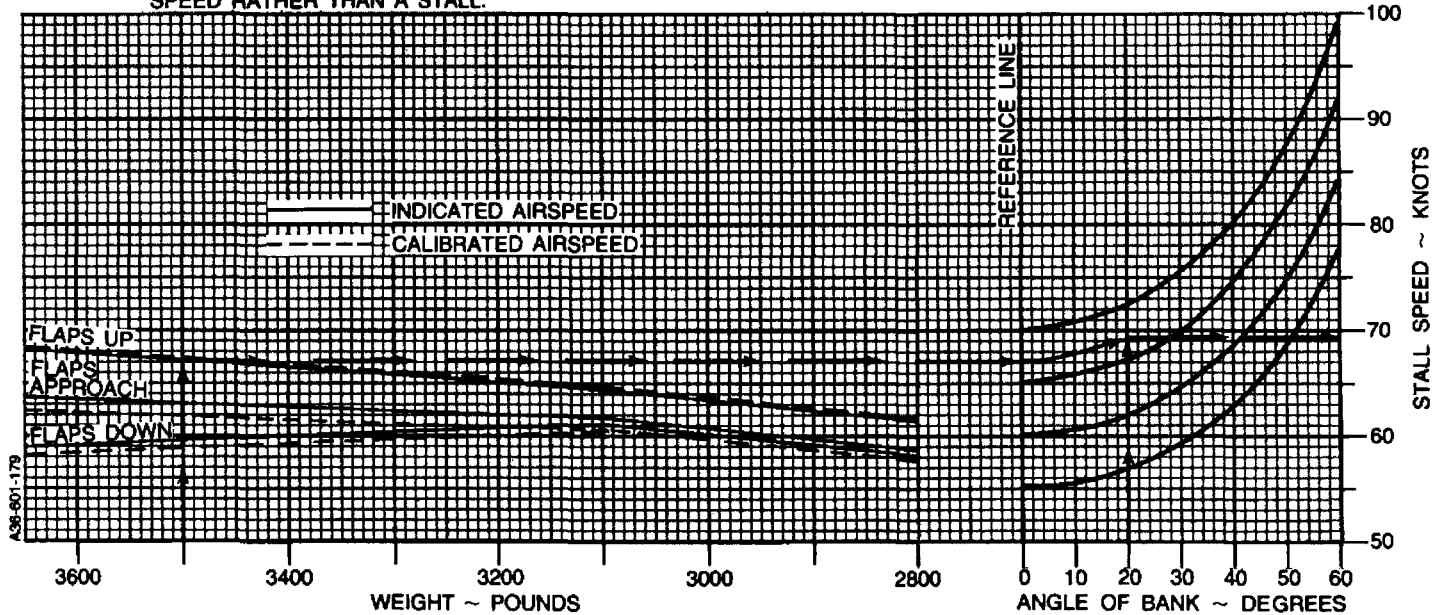
STALL SPEEDS – POWER IDLE

- Notes: 1. THE MAXIMUM ALTITUDE LOSS EXPERIENCED WHILE CONDUCTING STALLS IN ACCORDANCE WITH CAR 3.120 WAS 320 FEET.
2. THESE STALL SPEEDS WERE DETERMINED AT THE FORWARD CENTER OF GRAVITY LIMIT FOR EACH WEIGHT. AT SOME LOADINGS THE AIRPLANE IS ELEVATOR LIMITED, RESULTING IN A MINIMUM STEADY SPEED RATHER THAN A STALL.

EXAMPLE:

WEIGHT 3500 LBS
 FLAPS UP
 BANK ANGLE 20°

STALL SPEED 69.4 KTS INDICATED



TAKE-OFF DISTANCE – FLAPS UP

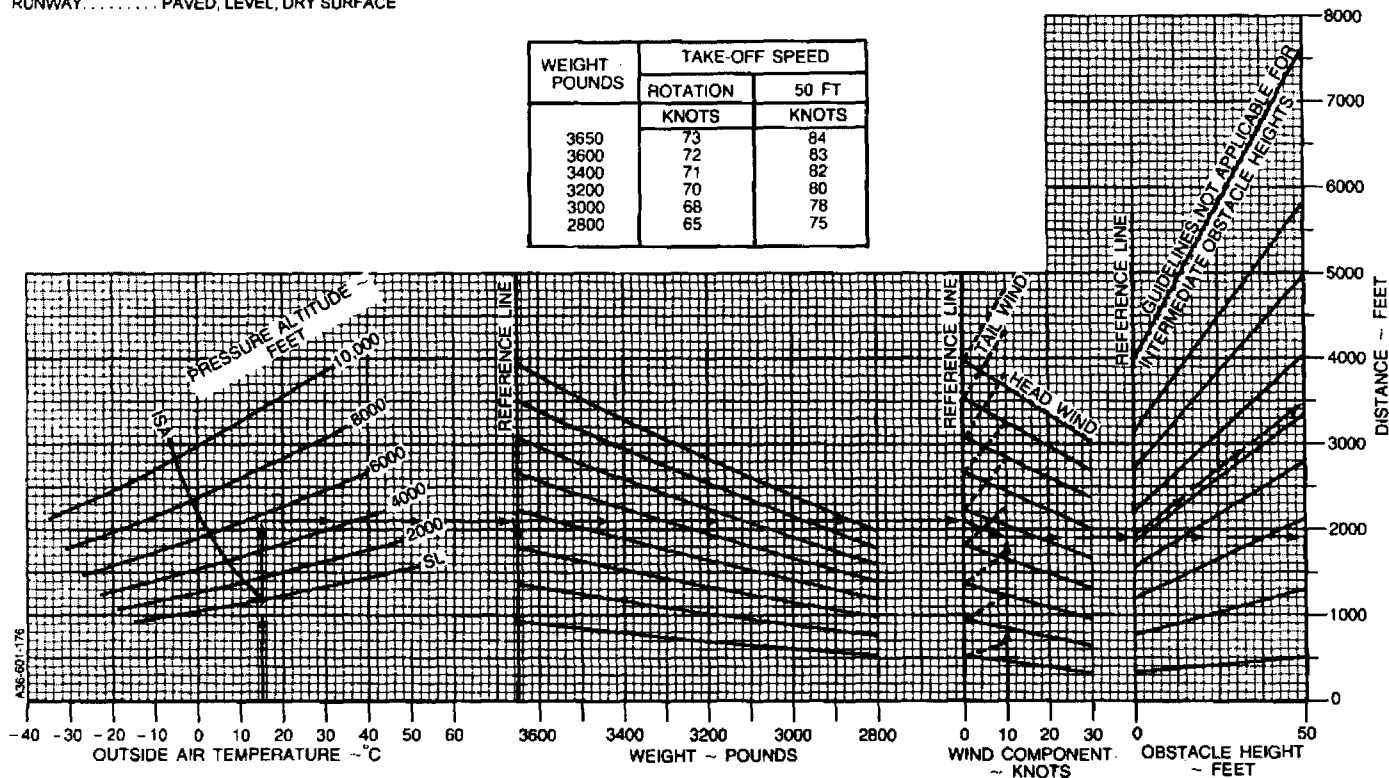
ASSOCIATED CONDITIONS:

POWER TAKE-OFF POWER SET BEFORE BRAKE RELEASE
MIXTURE FULL RICH (E-1946, E-2104, E-2111 THRU E-3144, NOT IN COMPLIANCE WITH RAYTHEON AIRCRAFT S.B. 28-3052)
AS REQUIRED BY FIELD ELEVATION (E-3145 AND AFTER, AND PRIOR AIRPLANES IN COMPLIANCE WITH RAYTHEON AIRCRAFT S.B. 28-3052)
FLAPS UP
LANDING GEAR RETRACT AFTER POSITIVE CLIMB ESTABLISHED
COWL FLAPS OPEN
RUNWAY PAVED, LEVEL, DRY SURFACE

EXAMPLE:

OAT 15°C
PRESSURE ALTITUDE 5653 FT
TAKE-OFF WEIGHT 3650 LBS
HEAD WIND COMPONENT 10 KTS
GROUND ROLL 1900 FT
TOTAL DISTANCE OVER 50-FT OBSTACLE 3475 FT
TAKE-OFF SPEED AT
ROTATION 73 KTS
50-FT 84 KTS

WEIGHT - POUNDS	TAKE-OFF SPEED	
	ROTATION	50 FT
	KNOTS	KNOTS
3650	73	84
3600	72	83
3400	71	82
3200	70	80
3000	68	78
2800	65	75



CLIMB

ASSOCIATED CONDITIONS:

POWER..... FULL THROTTLE, 2700 RPM
MIXTURE..... FULL RICH (E-1946, E-2104, E-2111 THRU E-3144, NOT IN COMPLIANCE WITH RAYTHEON AIRCRAFT S.B. 28-3052)
AS REQUIRED BY ALTITUDE (E-3145 AND AFTER, AND PRIOR AIRPLANES IN COMPLIANCE WITH RAYTHEON AIRCRAFT S.B. 28-3052)
FLAPS..... UP
LANDING GEAR..... UP
COWL FLAPS..... AS REQUIRED

CLIMB SPEED: 100 KNOTS ALL WEIGHTS

EXAMPLE:

OAT..... -5°C
PRESSURE ALTITUDE..... 11,500 FT
WEIGHT..... 3600 LBS
RATE OF CLIMB..... 515 FT/MIN
CLIMB GRADIENT..... 3.8%

