MARKING	KIAS VALUE OR RANGE	SIGNIFICANCE				
White Arc	58 - 115	Full Flap Operating Range. Lower limit is maximum weight V _{SO} in landing configuration. Upper limit is maximum speed per missible with flaps extended.				
Green Arc	73 - 167	Normal Operating Range. Lower limit is maximum weight V _S at most forward C with flaps retracted. Upper limit is max mum structural cruising speed.				
Yellow Arc	167 - 200	Operations must be conducted with caution and only in smooth air.				
Red Line	200	Maximum speed for all operations.				

Figure 2-2. Airspeed Indicator Markings

POWER PLANT LIMITATIONS

Engine Manufacturer: Teledyne Continental.

Engine Model Number: TSIO-520-P.

Engine Operating Limits for Takeoff and Continuous Operations:

Maximum Power, 5 Minutes - Takeoff: 310 BHP.

Continuous: 285 BHP

Maximum Engine Speed, 5 Minutes - Takeoff: 2700 RPM.

Continuous: 2600 RPM.

Maximum Manifold Pressure.

5 Minutes - Takeoff: 36.5 inches Hg. (from sea level to 17,000 feet).

Continuous: 35.5 inches Hg from sea level to 17,000 feet.

33.5 inches Hg at 19,000 feet.

31.5 inches Hg at 21,000 feet.

29.5 inches Hg at 23,000 feet.

Maximum Cylinder Head Temperature: 460°F (238°C).

Maximum Oil Temperature: 240°F (116°C).

Oil Pressure, Minimum: 10 psi.

Maximum: 100 psi.

Fuel Pressure, Minimum: 3.0 psi.

Maximum: 19.5 psi (186 lbs/hr).

STALL SPEEDS

CONDITIONS: Power Off Gear Up or Down

NOTES:

- . Maximum altitude loss during a stall recovery may be as much as 300 feet:
- KIAS values are approximate.

MOST REARWARD CENTER OF GRAVITY

WEIGHT LBS	FLAP DEFLECTION	ANGLE OF BANK								
		0 ₀		30°		45 ⁰		60°		
		KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	
	UP	67	67	72	72	80	80	95	95	
4000	10 ⁰	63	63	68	68	75	75	89	89	
	20°	59	60	63	64	70	71	83	85	
	30¢	54	58	58	62	64	69	76	82	

MOST FORWARD CENTER OF GRAVITY

WEIGHT LBS	FLAP DEFLECTION	ANGLE OF BANK								
		0o		30°		45 ⁰		60°		
		KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	
	UP	73	73	78	78	87	87	103	103	
4000	10 ⁰	68	68	73	73	81	81	96	96	
	20 ⁰	63	64	68	69	75	76	89	91	
	30°	58	61	62	66	69	73.	82	86	

Figure 5-3. Stall Speeds

AIRSPEED INDICATOR MARKINGS

MARKING	KIAS VALUE OR RANGE	EXPLANATION
White Arc	61 - 115	Full Flap Operating Range. Lower limit is maximum weight Vso in landing configuration. Upper limit is maximum speed permissible with flaps extended.
Green Arc	76 – 167	Normal Operating Range. Lower limit is maximum weight Vs at most forward C.G. with flaps retracted. Upper limit is maximum operating speed.
Red Line	167	Maximum speed for all operations.

STALL SPEEDS

NOTES:

1. Altitude loss during a stall recovery may be as much as 600 feet from a wings level stall and even greater from a turning stall.

2. KIAS values are approximate.

MOST REARWARD CENTER OF GRAVITY

Conditions: FLT IDLE Gear Up or Down

Weight	Flap	Angle of Bank								
Lbs.	Deflection	00		30	0	45	0	60	0	
		KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	
4000	UP	74	69	80	74	88	82	105	98	
	10 ⁰	69	65	74	70	82	77	98	92	
	20 ⁰	63	61	68	66	75	73	89	86	
	300	59	58	63	62	70	69	83	82	

MOST FORWARD CENTER OF GRAVITY

Conditions: FLT IDLE Gear Up or Down

Weight	Flap	Angle of Bank								
Lbs.	Deflection	00		30	0	45	0	60	0	
		KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	
4000	ÜP	76	71	84	76	80	84	107	100	
	10°	70	66	75	71	83	78	99	93	
	20 ⁰	65	63	70	68	77	75	92	89	
	30°	61	60	66	64	73	71	86	85	

FAA APPROVED DATE **SEP. 9 1992**