SECTION 2 - OPERATING LIMITATIONS

2.1 - Airspeeds (I.A.S.)

Never Exceed	160 KTS.
Normal Operating Limit ..... (Max. Structural Cruising)	126 KTS.
Manoeuvring at 1055 kg	111 KTS.
Manoeuvring at 1695 kg	88 KTS.
Max. Wing Flaps Extended	103 KTS.

2.2 - Manoeuvres Permitted

(a) Normal category :

Operations shall be limited to normal flying manoeuvres, but may include straight and steady stalls, and turns in which the angle of bank does not exceed 60 degrees.

All acrobatic manoeuvres, including spins are prohibited.

(b) Utility category :

Operations shall be limited to the following manoeuvres for utility category.

	Entry Speed IAS
Steep Turns	111 KTS.
Lazy Eights	111 KTS.
Chandelles	111 KTS.

2.3 - Crosswind Component

The maximum permissible crosswind component for take-off and landing is 17 knots.

2.4 - Power Plant

(a) Power and Temperatures

POWER	RPM	MANIFOLD PRESSURE	MAX. OIL TEMP.	MAX. CYL. HEAD TEMP.
Max. Take-off and Max. Cont. 160 B.H.P	2700	Full Throttle	118° C 245° F	260° C 500° F

NOTE: Manually operated mixture controls may be used to establish and maintain lean mixture strengths only at authorized cruise power settings. At all higher power settings such mixture controls may be used only to the extent necessary to avoid rough running which would otherwise result from an over-rich mixture.

2.4 - Power Plant, (cont'd)

(b) Oil Pressure:

Normal ..... 414-620 kPa, 60-90 LB/SQ. IN.

Min. Safe in Flight ..... 414 kPa, 60 LB/SQ. IN.

Min. Safe Idling ..... 172 kPa, 25 LB/SQ. IN.

(b) Oil Temperature:

Min. for Take-off Power ..... 24° C (75° F)

(d) Fuel Pressure:

Normal ..... 3.5-55 kPa, .5 to 8 LB/SQ. IN.

Minimum Safe in Flight ..... 3.5 kPa .5 LB/SQ. IN.

(e) Engine Speed:

Maximum engine speed for all operations, 2700 RPM.
Normal operation, 500 to 2700 RPM.

2.5 - Weight and Balance

(a) Weight :

Maximum take-off weight (normal category)	1055 kg.
Maximum take-off weight (utility category) ..	885 kg.
Maximum landing weight (normal category)	1055 kg.
Maximum landing weight (utility category)	885 kg.

(b) Centre of Gravity: Normal Category

Forward Limit:
2210 mm. aft of the datum
at 1055 kg.

2108 mm. aft of the datum
at 885 Kg. or less, with linear
variation between points given.

Rear Limit:

2362 mm. aft of the datum
at 1055 kg. or less.

(c) Centre of Gravity: Utility Category

Forward Limit:
2108 mm. aft of the datum at 885 Kg. or less.

Rear Limit:
2197 mm. aft of the datum at 885 Kg. or less.

(d) Datum:

The datum used is 1991 mm. ahead of the wing leading edge at the inboard intersection of the straight and tapered section.

(e) Baggage Compartment Loading: Normal Category

(i) Maximum permissible baggage compartment load is 90 Kg.

(ii) When passenger seats are removed to permit the carriage of cargo, the maximu load in the seat area shall not exceed 77 Kg. plus the weight of the seat removed.

(f) No baggage or aft passengers allowed or operations in the Utility Category.

2.6 - Smoking

Smoking is not permitted during take-off, landing and re-fueling or defueling operations.