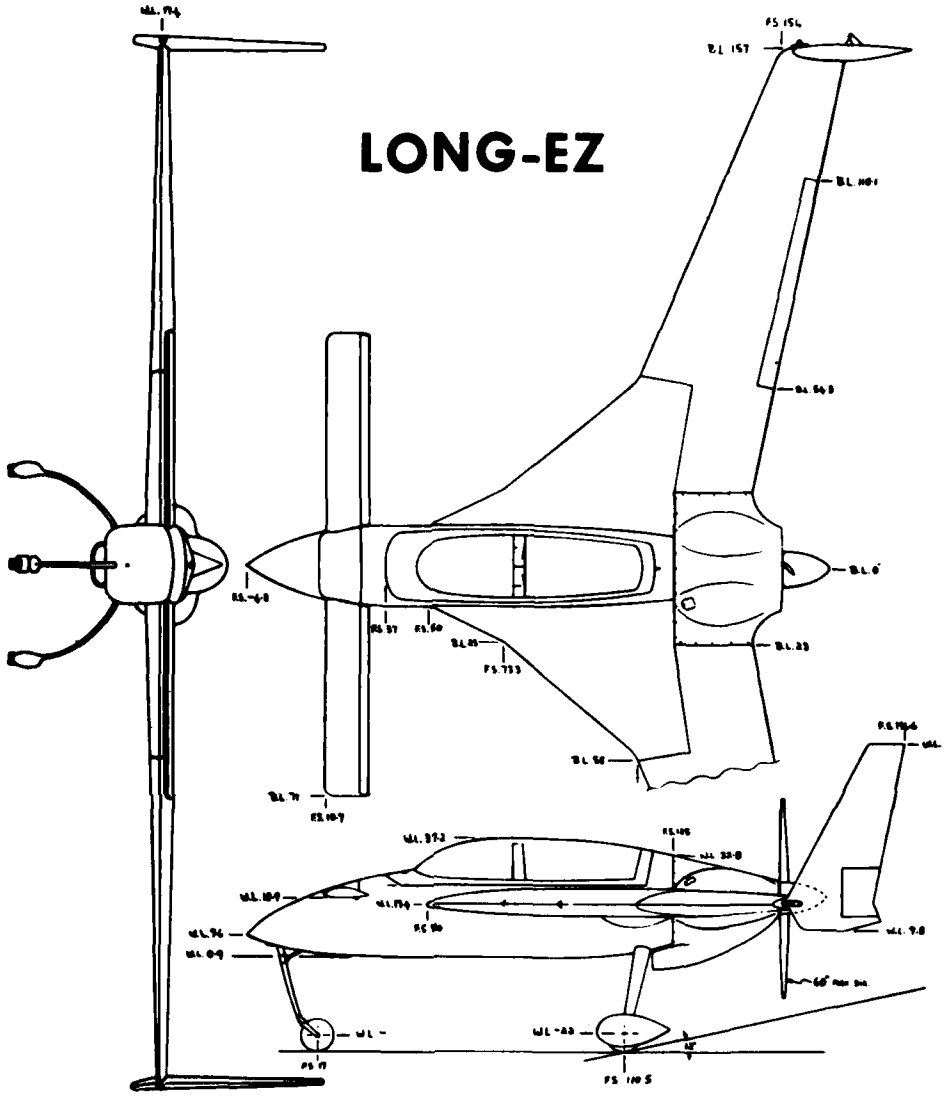

DIMENSIONS AND GENERAL DATA

WING SPAN	**26.1 FT**	**ENGINE LYCOMING**	**O-235 L2C**
WING AREA	**94.8 SQ FT**	**RECOMMENDED FUEL**	**100LL OR 100/130**
CABIN		**MAX FUEL CAPACITY**	**52 GALLONS**
LENGTH	**100 IN**	**MAX GROSS WEIGHT**	**1325 LB**
WIDTH	**23 IN**		
HEIGHT	**37 IN**		

Figure 1. Dimensions and General Data

Table 1. Principal Dimensions

Height	
Left winglet tip	93.2 in.
Right winglet tip	93.9 in.
Length (nose to spinner)	183.1 in.
Wing span	315 in.
Canard span	142.1 in.
GROUND CLEARANCES	
Left Wing tips	37.1 in.
Right Winglets	37.0 in.
PROPELLER	
Horizontal	45.3 in.
Vertical	16.5 in.
CABIN	
Length	
Front	70 in.
Rear	54 in.
Width	
Front	36 in.
Rear	35 in.
Height	
Front	36 in.
Rear	35 in.

Table 2. Airfoil Geometry

Airfoil	Average Measured	Tolerance
WING (Eppler 1230)		
Incidence	L 0.51° R 0.48°	±0.5°
Sweep	L 25.0° R 24.3°	±1.1° of each other
Chord (BL 106.25)	L 31.50 in. R 31.15 in.	31.35 in.
Thickness (% chord @ BL 108)	L 15.9% R 15.8%	-----
Dihedral	L -1.6° R -1.4°	-----
Leading Edge Fuselage station location Root Tip	114.2 156.5	FS 113.9±0.3 FS 156.0±1.0"
CANARD		
Incidence	L 0.87° R 1.5°	0.6°±0.3
Sweep	None	None
Chord	13 in.	-----
Thickness	19% at 41% M.A.C.	-----
Dihedral	L -0.18° R -0.15°	0
Leading edge fuselage station location	18.3	FS 18.6±0.3"
WINGLET		
Mean aerodynamic Chord	20.3 in. upper 26.0 in. lower	-----
Thickness	12% M.A.C. upper 11% M.A.C. lower	-----
@ M.A.C. Span	L 56.3 in. R 56.9 in.	-----

Table 3. Control System Rigging

Control	Average Measured	Tolerance
ELEVATOR		
Left		
Weight	3.7 lb	Less than 3.9 lb
Mass balance	16° TEU	12-26° TEU
Travel		
Trailing edge up	19.1°	20°±2° TEU
Trailing edge down	18.2°	22°±2° TED
Free play (static)	0.04 in.	-----
Right		
Weight	3.5 lb	Less than 3.6 lb
Mass balance	22.0°TEU	12-25° TEU
Travel		
Trailing edge up	18.5°	20°+2°TEU
Trailing edge down	23.9°	22±2° TED
Free play (static)	0.04 in.	-----
AILERONS		
Left		
Weight	5.4	-----
Mass balance	Bottom surface 2.7° TEU	Bottom or top surface level
Travel		
Trailing edge up	1.87 in.	2.1 in.±0.3in. TED
Trailing edge down	2.0 in.	2.1 in.±0.3in. TED
Free play (static)	0.1 in.	-----
Right		
Weight	5.5 lb	-----
Mass balance	0.1° TEU	Bottom or top surface level
Travel		
Trailing edge up	1.87 in.	2.1 in.±0.3in. TEU
Trailing edge down	2.0 in.	2.1 in.±0.3in. TED
Free play (static)	0.2 in. TEU center 0.02 in. TED	
RUDDERS		
Left deflection	5.9 in.	6 in.±0.5 in.

Table 3. Control System Rigging (cont)

Control	Average Measured	Tolerance
Static force (at full deflection)	36.6 lb	N/A
Right deflection	5.75 in.	6 in. ± 0.5 in.
Static force (at full deflection)	27.3 lb	N/A
LANDING GEAR		
Main		
Toe-In		
Left	0.29°	
Right	0.21°	0.25-0.5° per side
Caster angle	4.0° left 4.9° right	-----
Tread (between center line of main wheels)	62.15 in. (empty)	-----
Fuselage station	109.7	FS 110.5±1
Size	500 x 5	500 x 5
Pressure	40	35-40 psi
Nose		
Castering Friction	3.1 lb TER 3.7 lb TEL	2-4 lb
Size	2.80/2.50	Standard
Pressure	40 psi	40-45 psi
Gear Actuation cycle	18.3 lb extend	10 lb load
Gear warning	0.4 in.	last 0.1 in.
Wheel base (nose to main gear center line)	92.1 in. (empty)	-----
PROPELLER		
Diameter	62 in.	62 in.
Pitch	66°	66°
Track	0.1 in.	±0.1 in.
Landing airbrake actuation load	39 lb	40 lb