

BASIC DATA:

MODEL: LITTLE DIPPER REPLICA

ENGINE: ROTAX 503FA, 1 CARB, 46HP, 2.58:1 G'Box, 2636 PROP. RPM.

PROPELLER: 68x32

LOAD FACTORS (LIMIT): +4.59 (GUST), -2.59 (GUST). FAR 23 "NORMAL" CATEGORY

WEIGHTS: EMPT Y = 480 LB.

PILOT WEIGHT RANGE = 110 - 260 LB.; C.G. RANGE = 0.21 - 0.29 \bar{c}

FUEL/OIL = 48 LB. = 8 U.S. GAL.

GROSS WEIGHT, DESIGN = 700 LB. (170 LB. PILOT)

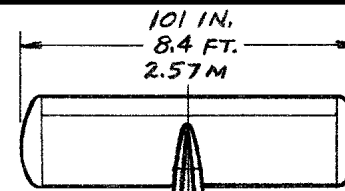
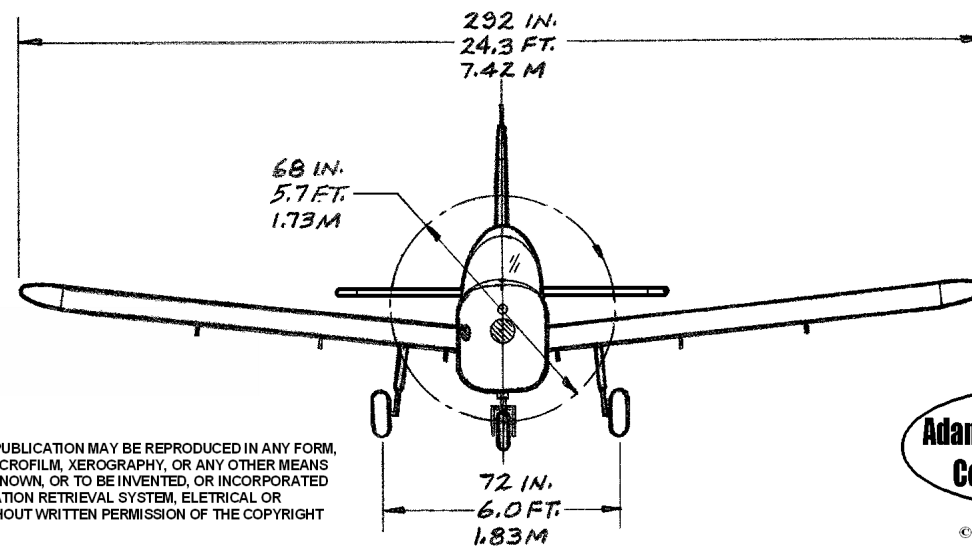
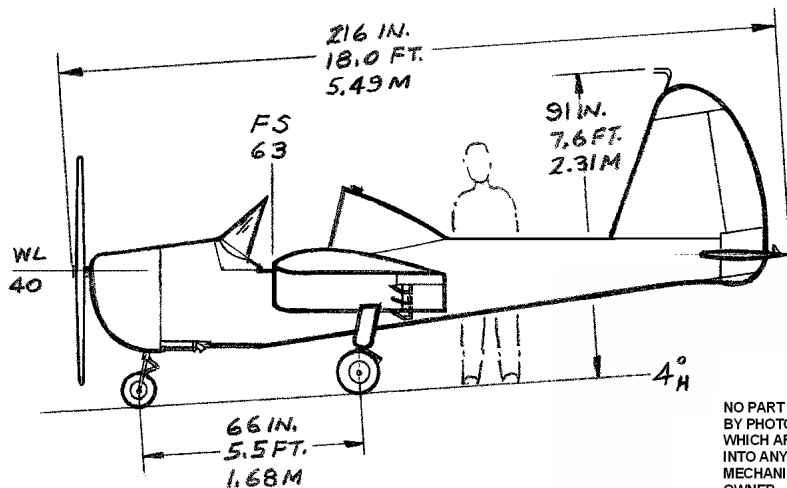
SPEEDS, MPH/KN: STALL = 36/31; MANEUVER = 87/76

MAX. LEVEL = 100/87; REDLINE (V_{NE}) = 127/110

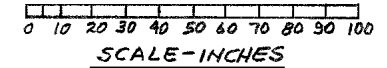
FLIGHT SURFACES:

	WING	TAIL	
		HORIZ.	VERT.
AREA, SQ. FT.	102	18.0	14.8
ASPECT RATIO	5.80	3.56	1.47
SWEEP, 0.25C, DEG.	0	0	10
AIRFOIL	NACA 4415	NACA 0009.4	NACA 0010
TIP	NACA 4415	NACA 0009.4	NACA 0010
CHORD, IN.			
ROOT	52	27	56
TIP	52	27	20
\bar{c}	52	27	41
INCIDENCE, DEG.			
ROOT	3	ALL-	0
TIP	3	MOVABLE	0
DIHEDRAL, DEG.			
ROOT	6	0	—
TIP	—	—	—
VOLUME COEFFICIENT	—	0.41	0.049

OTHER FEATURES: SLOTTED FLAPS. DEFLECTIONS: 0°, +20°, +45°
 MAIN WHEEL HYDRAULIC DISC BRAKES (SIMULTANEOUS + PARKING)
 NOSE WHEEL STEERING. TURNING RADIUS = 8.0 FT., MIN.
 ALL-METAL STRUCTURE. FIBERGLASS FAIRINGS.
 FULL CANOPY OPTIONAL BUT RECOMMENDED.



THREE-VIEW AND BASIC DATA



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