

WEIGHING REPORT

Model: DA 42 NG Serial Number: 42.N388 Registration: _____

Data with reference to the Type Certificate Data Sheet and the Airplane Flight Manual.

Reference Plane: Vertical plane 2196 mm (86.46 in) in front of the leading edge of wing at the root rib.

Horizontal reference line: Front baggage compartment floor, left side.

Equipment Inventory - dated: 14. Jan. 20 Cause for Weighing: Production

Weight and Balance Calculations (Weighing at the wheels)

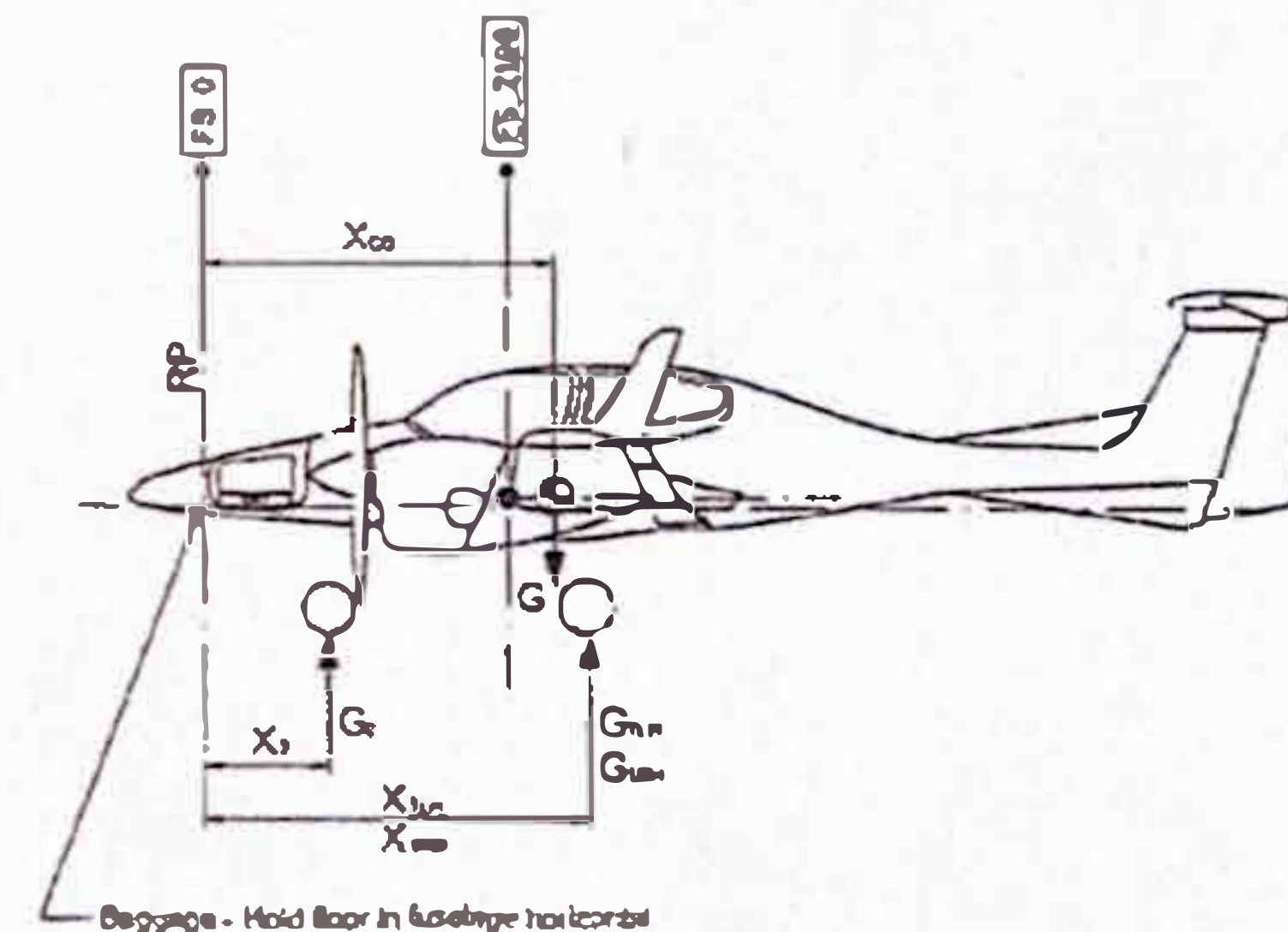
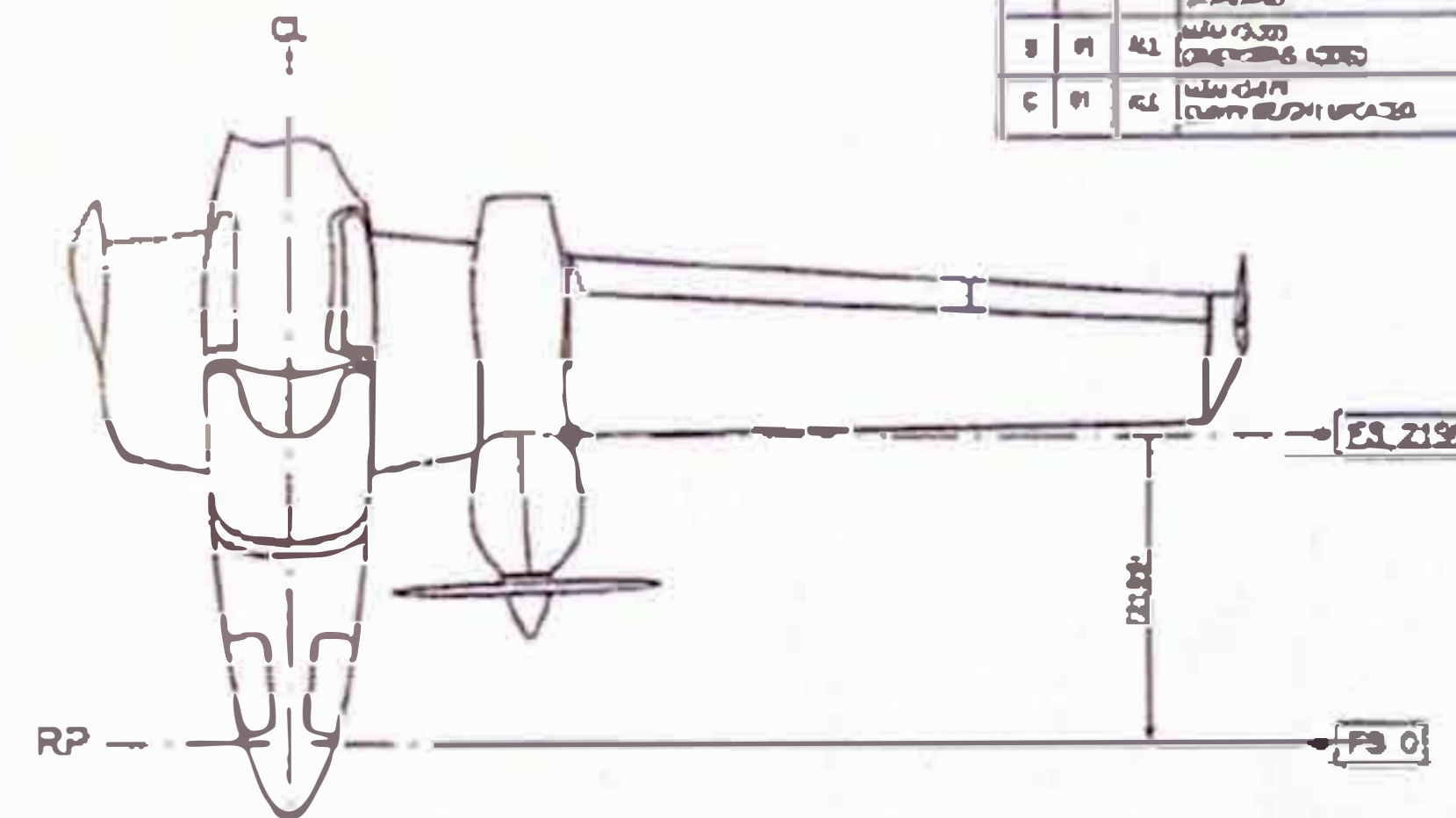
Weight Condition: Include brake fluid, hydraulic fluid, coolant, engine oil and unusable fuel (7.57 liters / 2 US gal.)

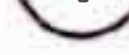
Support	Gross	Tare	Net	Lever Arm
MAIN G_{1LH}	603 kg	0 kg	603 kg	$X_{1LH} = 2.793 \text{ m}$
MAIN G_{1RH}	588 kg	0 kg	588 kg	$X_{1RH} = 2.793 \text{ m}$
NOSE G_2	289.5 kg	0 kg	289.5 kg	$X_2 = 0.911 \text{ m}$
Empty Weight			1480.50 kg	

Calculate the Empty Weight, $G = \text{MAIN } G_{1LH} + \text{MAIN } G_{1RH} + \text{NOSE } G_2$. Empty Weight must be between 1346kg and 1565kg. If MAM 42-678 is installed: Empty weight must be between 1346 and 1664kg.		$G = 1480.5 \quad \text{kg}$
Calculate the Empty Weight Moment, $M = (G_{1LH} \cdot X_{1LH}) + (G_{1RH} \cdot X_{1RH}) + (G_2 \cdot X_2)$.		$M = 3590.2 \quad \text{kgm}$
Calculate the Empty Weight Center-of-Gravity position, $X_{CG} = M/G$.		$X_{CG} = 2.425 \quad \text{m}$
Maximum Take Off Weight MTOW	VAM 42-004 (OSB 42-068)	1900 kg (4189 lb.)
	MAM 42-678	1999 kg
	OAM 42-260	2001 kg
Maximum useful load = MTOW - G.		$518.5 \quad \text{kg}$

Record the Empty Weight (G) and the Empty-Weight Moment (M) in the Airplane Flight Manual.

Place/Date Wr. Neustadt 15. Jan. 20	Authorizing Stamp	Authorizing Signature 
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DIAMOND METRIC PARTS AND PRODUCTION NUMBER 		US AND CANADA METRIC DFGS 17-030001 CAPTION NONE 	Diamond Diamond Aircraft Industries R.A. CARRUTHERS 27700 Wing Road Van Nuys, CA 91411		DATE 17-04-18 PROJECT DA 42 H9 TITLE
VALUE IN POUNDS (1000 LBS = 1 TON) 2.7		COMPRESSIBLE PART NO	COLOR N/A	WEIGHING REPORT (WEIGHING AT THE WHEELS)	
DIAMOND-RELATED J. CARRUTHERS 27700 Wing Road Van Nuys, CA 91411		FILLING AND PROCEEDING LEAD SOLID EDGE STG	COLOR N/A	DATE 17-04-18	PARTS 27700 Wing Road
FLOWING DDA-0510-00-000000		FLOWING DDA-0510-00-000000	FLOWING DDA-0510-00-000000	DATE 17-04-18	PARTS 27700 Wing Road