

#415 N226AM Aeroprakt A22LS WITH THE DATUM at the Prop Hub Flange.

CG must be between 59" and 69" (19%-37%MAC) from Prop Hub Flange

WEIGHT AND BALANCE FOR AIRCRAFT WITH THE DATUM FORWARD OF THE MAIN WHEELS

ENTER DATA IN THE RED CELLS AS NEEDED COMPUTED RESULTS IN THE BLUE CELLS

ALL WEIGHTS IN LBS, DISTANCES IN INCHES

PART ONE, EMPTY WEIGHT DATA

IF YOU DON'T KNOW, GO TO PART TWO

EMPTY AIRCRAFT WEIGHT =	727	LBS			
AIRCRAFT EMPTY CG =	60.06	IN.			
EMPTY AIRCRAFT MOMENT =	43667	INCH/LBS			

PART TWO, CALCULATING EMPTY WEIGHT DATA

FIGURING EMPTY WEIGHT CG.

MAIN WHEELS DATA	WEIGHTS				
ENTER RIGHT MAIN WHEEL WEIGHT =	283	LBS			
ENTER LEFT MAIN WHEEL WEIGHT =	285	LBS			
MAIN WHEEL DISTANCE FROM DATUM =	71	IN.			
MAIN WHEEL MOMENT =	40328	INCH/LBS			
TAIL WHEEL/NOSE WHEEL DATA					
ENTER TAIL/NOSE WHEEL WEIGHT =	159	LBS			
TAIL/NOSE WHEEL DISTANCE FROM DATUM =	21	IN.			
TAIL/NOSE MOMENT =	3339	INCH/LBS			
TOTAL WEIGHT =	727	LBS			
	CG		MOMENT		
EMPTY WEIGHT CENTER OF GRAVITY DATA	60.06	IN	43667	INCH/LBS	
FIGURE FINAL CG BELOW					
ENTER THE FOLLOWING AS NEEDED					
SUBJECT	WEIGHT	X	ARM	X	MOMENT
AIRCRAFT EMPTY WEIGHT =	727	X	60.06	X	43667 INCH/LBS
PILOT WEIGHT =	230	X	63	X	14490 INCH/LBS
PASSENGER WEIGHT =	0	X	63	X	0 INCH/LBS
FUEL WEIGHT (6 LBS/GAL) =	60	X	79	X	4740 INCH/LBS
BAGGAGE WEIGHT =	0	X	91	X	0 INCH/LBS
EXTRA WEIGHT #1 =		X	97.5	X	0 INCH/LBS
EXTRA WEIGHT #2 =		X		X	0 INCH/LBS
EXTRA WEIGHT #3 =		X		X	0 INCH/LBS
TOTALS	1017	LBS			62897 INCH/LBS
AIRCRAFT CENTER OF GRAVITY =	61.85	INCHES FROM DATUM			