WEIGHT AND BALANCE DATA

GENERAL

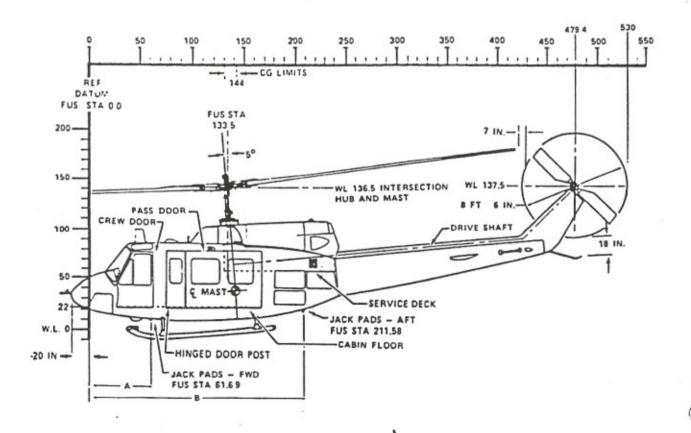
The Weight and Balance Data information presented herein is intended to familiarize the operating personnel with the CG range and to provide the information necessary for computing Weight and Balance.

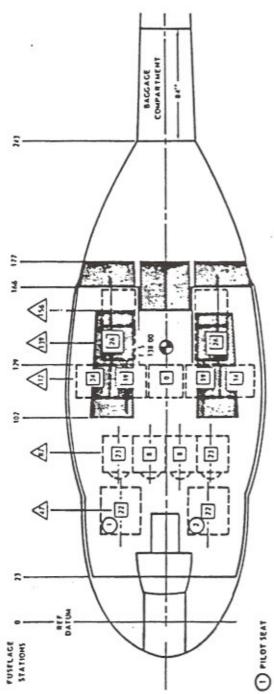
WEIGHT AND BALANCE

The helicopter empty weight CG is adjusted to require a minimum of 170 pounds at the pilot's station. The aft cabin area has a deck loading limit of 100 pounds per square foot.

Additional space for baggage or cargo is provided in a compartment located in the forward end of the tail boom. Access to the compartment is through a large door on the right side of the tail boom. Loading of compartment shall be from the front to the rear, and the load shall be secured to prevent shifting which would change the CG loading position.

Safe loading of the helicopter shall be computed from the Weight and Balance Data contained in this manual to assure that flight is conducted within the limits of the CENTER of GRAVITY vs GROSS WEIGHT CHART.





(2) COPILOT OR PASSENCER SEAT

ASSECUENCE FUEL TANKS

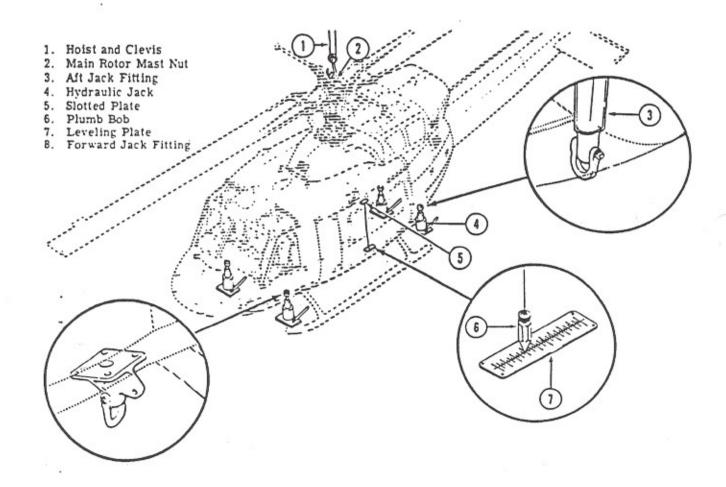
C______ SEATS

LATERAL LOCATION (INCHES FROM Q.) OF PERSONNEL

A LONGITUPINAL LOCATION (INCHES AFT OF REF DATUM) OF PERSONNEL

EXTERNAL CARGO

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Hoisting Jacking and Leveling

. SAMPLE LOADING PROBLEM

The helicopter is chartered to transport nine passengers (170 lbs. each) and 180 pounds of baggage for a trip that will require approximately 157 gallons (1,019 lbs.) of fuel. The 190 pound pilot will return alone. Determine extreme CG conditions for both trips.

	Weight	C.G.	Moment
Weight Empty + Oil + Pilot + Passengers (5-man seat) + Passengers (4-man seat) + Baggage Zero fuel weight	6105 24 190 850 680 180	144.3 169.1	880952 4058 8930 99450 59160 46980 1099530
Zero fuel weight + Take-off Fuel Take-off Weight	8029 1409 9438	139.4	1099530 216066 1315596
Zero fuel weight + Most forward CG fuel Most forward CG weight	8029 472 8501	136.4	1099530 60176 1159706
Zero fuel weight + Landing fuel Landing weight	8029 390 9419	136.6	1099530 50480 1150010

Notes

RETURN LEG

Zero fuel weight	Weight Empty + Oil + Pilot Zero fuel weight	Weight 6105 24 190 6319	C.G. 144.3 169.1	Moment 880952 4058 8930 883940
+ Most forward CG fuel	+ Take-off fuel	1409	142.3	216066
+ Landing fuel Landing weight . 390 6709 139.3 50480 934420	+ Most forward CG fuel	472	139.0	60176
	+ Landing fuel	390	139.3	50480
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