

*Boeing*

D-7582  
71

IV  
WEIGHT ANALYSIS

A. OPERATING EMPTY WEIGHT SUMMARY

(Engine Installation with Turbo Supercharger)

1. Manufacturer's Empty Weight (See Section B following)				73,684
2. Minimum Operating Oil (With central replenishing oil system the total oil carried is in ratio of 1 gallon to 35 gallons fuel. No minimum operating oil is therefore included in Operating Empty Weight.)				0
3. Crew and Crew Baggage				390
Flight Crew	2 at 170#		340	
Baggage	2 at 25		50	
4. Water for Anti-Detonant System				<u>250</u>
			<u>OPERATING EMPTY WEIGHT</u>	<u>74,324</u>

NOTE: The Operating Empty Weight does not include the fuel required for the installed equipment which accomplish the following functions:

1. Cabin Altitude Conditioning
2. Cabin Heating
3. Ventilation
4. Wing and Empennage Deicing
5. Electrical Power Generation
6. Refrigeration

Range-payload data in this document (see page 78) include an allowance of 8.5 GPH to provide for all the above functions, except no allowance is included for wing and empennage deicing.

B. MANUFACTURER'S EMPTY WEIGHT SUMMARY  
 (Engine Installation with Turbo Supercharger)

1. Empty Weight (AN-9103C) (See Section C Following)	72,914
2. Trapped Fuel (Undrainable)	150
3. Unavailable Fuel (Unavailable to engine in flight but drainable)	150
4. Trapped Oil (Undrainable)	<u>470</u>
<u>MANUFACTURER'S EMPTY WEIGHT</u>	<u>73,684</u>



C. EMPTY WEIGHTS (AN-9103C)

(Engine Installation with Turbo Supercharger)

1. Wing Group			14,628
2. Tail Group			1,909
3. Body Group			12,148
4. Landing Gear Group			7,282
5. Nacelle Group			4,605
6. Power Plant Group			22,938
7. Fixed Equipment Group			9,404
Instruments			314
Surface Controls			788
Electrical			2299
Communicating			866
Air Conditioning			1708
Furnishings			2028
Control Cab Personnel Accommodations			223
Flight Equipment			20
Miscellaneous			35
Emergency Accommodations			557
Pyrotechnics		75	
MK-1 Parachute Flares (3)	65		
Brackets, Release, Etc.	10		
Fire Protection Equipment		1445	
Fire Exting.-Pressure	360		
Fire Exting.-Hand	50		
Fire Exting.-Aux. P.P.	10		
CO <sub>2</sub> for Tail Anti-Ice Heaters	25		
Oxygen		30	
First Aid Kits		2	
Hand Axes		5	
Lining & Insulation			1193
Control Cab		107	
Fiberglass & Lining		576	
V-Board		450	
Fasteners & Miscellaneous		60	
Thermal Anti-Icing			594
Auxiliary Gear			473
Ladder		20	
Cargo Hoist & Mechanism		300	
Monorail		153	
Auxiliary Power Plant			304

EMPTY WEIGHT (AN-9103C)

72,914

D. Allowances for items whose weight is not under the control of the Seller:

	<u>Weight (lbs.)</u>
Main Landing Gear	
Tires (56" S.C.)	922
Tubes	200
Nose Gear	
Tires (36" S.C.)	100
Tubes (36" S.C.)	35
Engines	13940
Propellers (Curtiss 4-bladed)	3436
Communicating Equipment including Interphone System (allowance)	870
Autopilot Installation	121
Crew and Crew Baggage (2 flight)	390
Water for ADI System	250