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LOAD DATA SHEET - PAGE 1 OF 3 - AEROPLANE WEIGHT

Aeroplane Type:..... DIAMOND DA 40

Registration Marking:..... **VH-DIV**

Serial No: 40.1031


ISSUE:..... ONE	DATE:..... 6.7.09	EXPIRY:..... INDEFINITE
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AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:

ITEM	WEIGHT (Kg)	ARM (m aft of datum)	MOMENT (Kg.m)	CABIN CONFIGURATION
EMPTY	836.0	2.48	2074	FOUR SEATS TOTAL
STANDARD CABIN CONFIGURATION				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE PILOTS HANDBOOK SECTION SIX				
	(lb)	(in)	(in.lb)	
EMPTY	1843.0	97.68	180024	FOUR SEATS TOTAL

NOTE: The above empty weights include:-

EMPTY - unusable fuel and full oil


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LOAD DATA SHEET - PAGE 2 OF 3 - EQUIPMENT LIST

This list details the items included in the empty weight shown in Page 1.

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ENGINES/PROPELLERS
Lycoming IO-360-M1A..... 1
MT MTV-12-B/183-59b..... 1

COMPASSES
Magnetic..... 1
Remote Indicating..... 1*

THERMOMETERS
Engine Temp(Cyl.Hd.)..... 1*
Oil Temp..... 1*
Outside Air Temp..... 1*

INDICATORS
Airspeed..... 1*
Airspeed (Standby)..... 1
Directional Indicator..... 1*
E.G.T..... 1*
Flight Hour..... 1
Fuel Flow..... 1*
Attitude Indicator..... 1*
Gyro Horizon (Standby).... 1
Stall Warning..... 1*
Tacho Non-recording..... 1*
Trim Indicator..... 1
Vertical Speed..... 1*
Wing Flap Position..... 1
Assigned Altitude..... 1*

AVIONICS EQUIPMENT (TYPE)
ADF..... 0
Autopilot..... GARMIN GFC700
Speakers..... 1
G/slope..... PART NAVS
Headsets..... 1
GPS/Com.... GARMIN GIA63W (x2)
MF Display... GARMIN GDU1044
PF Display... GARMIN GDU1040
Audio..... GARMIN GMA1347
Txponder.... GARMIN GTX33
AHRS..... GARMIN GRS77
Air Data..... GARMIN GDC-74A
Analizer..... GARMIN GEA71
Traffic..... AVIDYNE TAS-600
Magntomtr... GARMIN GMU44
Datalink..... 0

INSTRUMENTS
Altimeters..... 1*
Altimeters (Standby)..... 1
Ammeters..... 1*
Voltmeters..... 1*
Clocks..... 1*

GAUGES
Engine Oil Pressure..... 1*
Fuel Contents..... 1*

LIGHTS
White Strobes (tips)..... 2
Inst. Full Panel Flood..... 1
Landing/Taxi..... 2
Map Reading..... 1
Navigation..... 4
Cockpit..... 2
Passenger Overhead..... 1

RESTRAINT EQUIPMENT
Baggage Net..... 0
Inertia Reels..... 4
Lap-sash harnesses..... 4
Inflatable Restraints..... 2

MISCELLANEOUS EQUIPMENT
Dual Controls..... 1
Fire Ext.(Portable)..... 1
Cabin Heater..... 1
Heated Pitots..... 1
Alternate Static..... 1
Standby Battery..... 1
Electric Trim..... 1
Wheel Fairings..... 3

DISPOSABLE LOAD LIST
First Aid Kit..... 0
Tow Bar..... 0
Torch..... 1
V.S.Beacon/E.L.T..... Artex ME406

* ITEMS MARKED ARE PART OF ELECTRONIC DISPLAYS

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LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

Aeroplane Type:..... DIAMOND DA 40

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The following is valid only for the Empty Weight specified in page 1 - Aeroplane Weight dated.. 6.7.09 and is based on calculations using Occupant Weights of 60 to 90 Kg each.

A...NORMAL CATEGORY OPERATIONS:-

1. OCCUPANTS:-

Load Front to Rear (i.e. Front seats first)
Load Heaviest Passengers in front row

With FOUR Occupants, NIL Baggage to be carried and Maximum Total Load on Rear Seats is 115 Kg.

2. BAGGAGE COMPARTMENT LIMITATIONS:-

<u>Number of Occupants</u>	<u>Maximum Baggage</u>
One(pilot)	37 Kg
Two	45 Kg
Three	7 Kg
Four	NIL

3. WING MAIN FUEL:-

Fuel is limited only by All Up Weight

MAXIMUM TAKE-OFF WEIGHT.....1200 Kg
MAXIMUM LANDING WEIGHT.....1150 Kg

B...UTILITY CATEGORY OPERATIONS:-

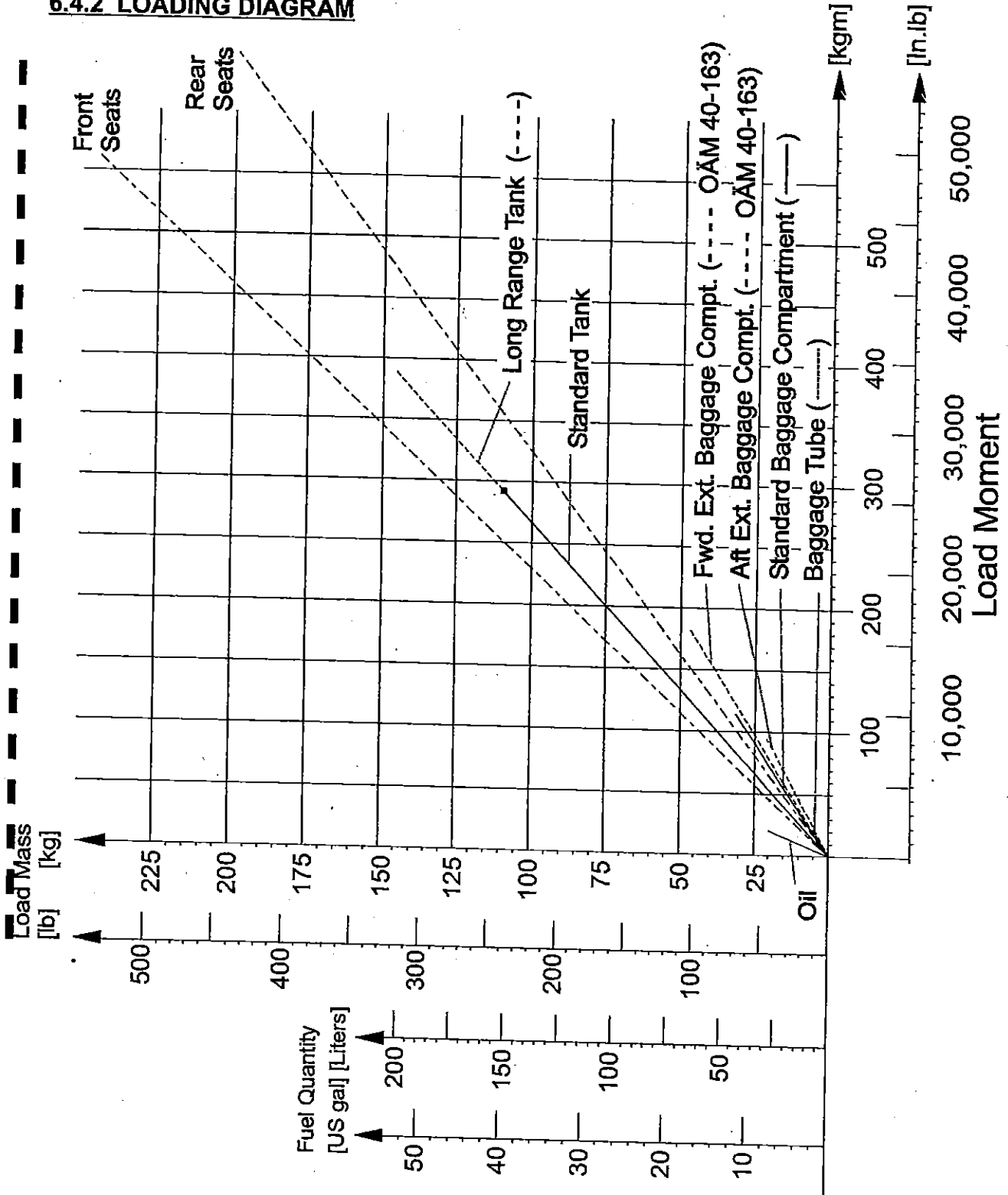
In utility Category Crew and Fuel load is limited only by All Up Weight

MAXIMUM TAKE-OFF WEIGHT.....980 Kg

NOTE: If a full Loading Check is required, refer to Loading Instructions and Tables in the Pilots Handbook Section Six.

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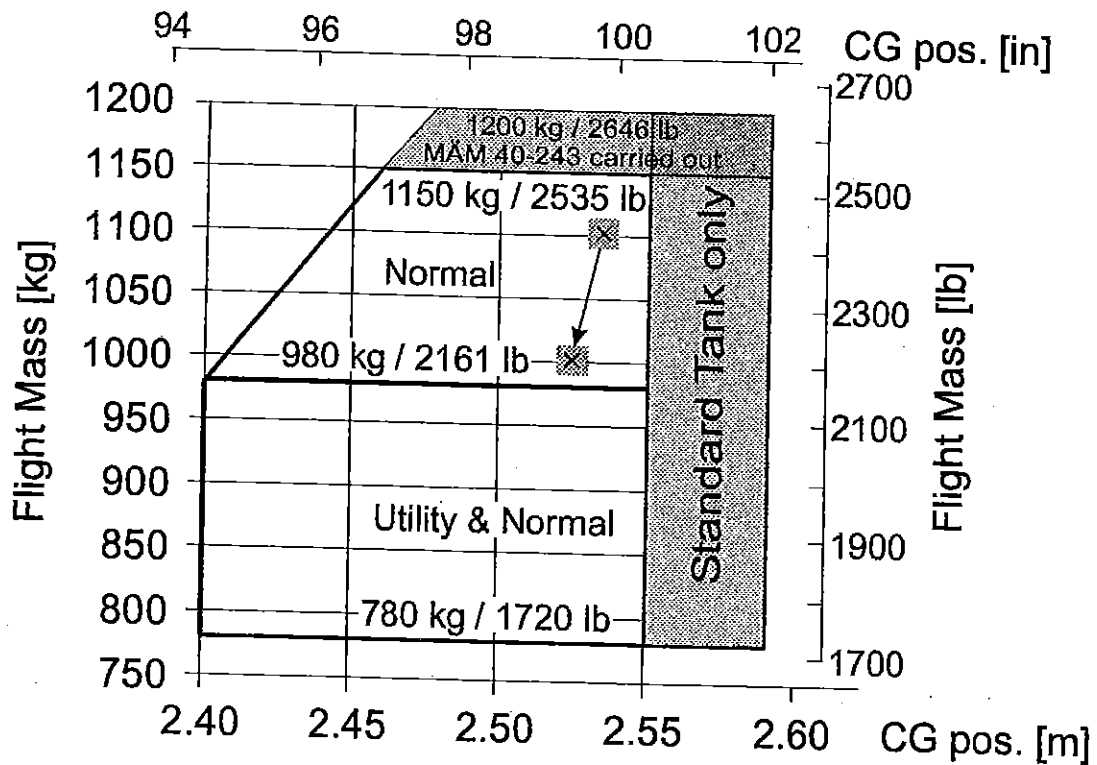
6.4.2 LOADING DIAGRAM



		DA 40 (Example)		Your DA 40	
		Mass [kg] <i>(lb)</i>	Moment [kg m] <i>(in.lb)</i>	Mass [kg] <i>(lb)</i>	Moment [kg m] <i>(in.lb)</i>
1	Empty mass (from Mass and Balance Report)	735 <i>1620</i>	1760 <i>152,762</i>		
2	Oil not added Lever arm: 1.00 m <i>(39.4 in)</i>	-1.7 <i>-4</i>	-1.7 <i>-158</i>		
3	Front seats Lever arm: 2.30 m <i>(90.6 in)</i>	150 <i>331</i>	345 <i>29,989</i>		
4	Rear seats Lever arm: 3.25 m <i>(128.0 in)</i>	75 <i>165</i>	243.8 <i>21,120</i>		
5	Standard baggage compt. Lever arm: 3.65 m <i>(143.7 in)</i>	0 <i>0</i>	0 <i>0</i>		
	Baggage Tube Lever arm: 4.32 m <i>(170.1 in)</i>	0 <i>0</i>	0 <i>0</i>		
6	Fwd. extended baggage compartment Lever arm: 3.89 m <i>(153.1 in)</i>	27 <i>60</i>	105 <i>9,186</i>		
	Aft extended baggage compartment Lever arm: 4.54 m <i>(178.7 in)</i>	18 <i>40</i>	81.7 <i>7,148</i>		
7	Total mass & total moment with empty fuel tanks (Total of 1.-6.)	1003.3 <i>2212</i>	2533.8 <i>220,047</i>		
8	Usable fuel Lever arm: 2.63 m <i>(103.5 in)</i>	99.4 <i>219</i>	261.4 <i>22,667</i>		
9	Total mass & total moment including fuel (7. plus 8.)	1102.7 <i>2431</i>	2795.2 <i>242,714</i>		
10	<p>The total moments from rows 7 and 9 (2533.8 and 2795.2 kgm) (<i>220,047 and 242,714 in.lb</i>) must be divided by the related total mass (1003.3 and 1102.7 kg respectively) (<i>2212 and 2431 lb</i>) and then located in Diagram 6.4.4 'PERMISSIBLE CENTER OF GRAVITY RANGE'.</p> <p>As in our example CG positions (2.525 m and 2.535 m respectively) (<i>99.48 and 99.84 in</i>) and masses fall into the permitted area, this loading condition is allowable.</p>				

6.4.4 PERMISSIBLE CENTER OF GRAVITY RANGE

The diagram is replaced by the following:



Forward flight CG limit:

The paragraph is amended to read:

2.40 m (94.5 in) aft of DP from 780 kg to 980 kg (1720 lb to 2161 lb)

2.46 m (96.9 in) aft of DP at 1150 kg (2535 lb)

linear variation between these values

If MÄM 40-227 is carried out:

2.40 m (94.5 in) aft of DP from 780 kg to 980 kg (1720 lb to 2161 lb)

2.48 m (97.6 in) aft of DP at 1200 kg (2646 lb)

linear variation between these values