

6.3 - LOADING SYSTEM

Aeroplane Type: BEECH A-36

Registration Marking VH-PDS Aircraft Serial No: E-2107

ISSUE	DATE
1	11-4-85

Hawker de Havilland Limited Loading
Tables WB/HdH/101 Issue 2.



Approval Stamp	
227	
REGULATIONS	
<i>[Signature]</i>	
PERSON	
NO. 031	

HAWKER DE HAVILLAND AUSTRALIA PTY. LIMITED. BANKSTOWN, N.S.W.		Sect. 6.3 Loading System
COMPILED BY: G.H.		SHEET NO. 7 OF 6
DATE: 18.7.81	BEECH A-36 LOADING SYSTEM	Ref: WB /HGH/ 101
		ISSUE NO. 2

Applicable to S/No. E-1870 and subs. - club seating.

To check the loading of the aircraft prior to take-off carry out a summation of weights and index units as shown in the example on page 2. Check the loading of the aircraft at zero fuel weight and take-off weight. For the centre of gravity of the aircraft to be within allowable limits the total of the index units for the zero fuel weight and take-off weight must be greater than the minimum and less than the maximum allowable index unit totals for each of the particular weights. A table of minimum and maximum index unit totals for various weights is given on page six.

The correct empty weight must be obtained from para 6.2.

NOTES:

See Sect. 2 for aircraft limitations.

1 index unit = 1000 kg mm.

All arms are in mm aft of datum.

Datum is F.S. 0.0".

Maximum allowable total load on Row 3 Seats; 110 kg.

Maximum allowable load in aft compartment; 30 kg.

HAWKER DE HAVILLAND AUSTRALIA PTY. LIMITED, BANKSTOWN, N.S.W.	Sect. 6.3 Loading System
	SHEET NO. 2 OF 6

COMPILED BY: G.H.	BEECH A-36 LOADING SYSTEM	Ref: WB /HDH/ 101
DATE: 18.7.81.		ISSUE NO. 2

LOADING EXAMPLE

Format Example Only - Do Not Use - Will Not Be Amended

Item	kg	Index Units
A/C Empty Weight	XXXX	XXXX
Oil	10	4
2 Crew - Row 1	140	282
2 Pass - Row 2	130	370
1 Pass - Row 3	50	193
Baggage - Aft	-	-

Zero Fuel Weight	XXXX	XXXX

Fuel 140 l	101	192

Take-off Weight	XXXX	XXXX

If the totals of the index units for zero fuel weight and take-off weight are between the minimum and maximum allowable totals at those weights, the aircraft is correctly loaded.

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Sect. 6.3 Loading System

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COMPILED BY: G.H.

BEECH A-36
LOADING SYSTEM

Ref: WB /HDH/ 101

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OCCUPANTS - CLUB SEATING - INDEX UNITS

Weight kg	Row 1 Arm:2010	Row 2 Arm:2850	Row 3 Arm:3860
40	80	114	154
45	90	128	174
50	101	143	193
55	111	157	212
60	121	171	232
65	131	185	251
70	141	200	270
75	151	214	290
80	161	228	309
85	171	242	328
90	181	257	347

BAGGAGE - INDEX UNITS

Weight kg	Behind Row 1 Seats Arm: 2310	Aft Compt. Arm: 4570
5	12	23
10	23	46
15	35	69
20	46	91
25	58	114
30	69	137
35	81	
40	92	
45	104	

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Sect. 6.3 Loading System

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CARGO - INDEX UNITS

Weight kg	Fwd. of Spar Arm: 2740	Aft of Spar Arm: 3680
5	14	18
15	41	55
25	69	92
35	96	129
45	123	166
55	151	202
65	178	239
75	206	276
85	233	313
95		350
105		386
115		423
125		460
135		497
145		534
155		570
165		607
175		644

NOTE: Remove Row 2 and 3 seats for cargo configuration.

Row 2 seats 11.3 kg each, 30 index units each

Row 3 seats 7.3 kg each, 29 index units each

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Sect. 6.3 Loading System

SHEET NO. 5 OF 6

COMPILED BY: G.H.

BEECH A-36
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USABLE FUEL - ARM 1905 S.G. 0.72

litres	kg	Index Units
20	14	27
40	29	55
60	43	83
80	57	109
100	72	137
120	86	164
140	101	192
160	115	219
180	130	247
200	144	274
220	158	301
240	173	329
260	187	356
280	201	384

OIL - ARM 381 S.G. 0.90

U.S. Quants	litres	kg	Index Units
12	11	10	4

HAWKER DE HAVILLAND AUSTRALIA PTY. LIMITED.		REF: 400 Loading System			
BANKSTOWN, N.S.W.		SHEET NO. 6 OF 6			
CONVERTED BY G.H.L.	BEECH A-35	Ref. W8 (HOM) 101			
DATE: 10.7.81	LOADING SYSTEM	ISSUE NO. 2			
<u>INDEX UNIT LIMITS</u>					
Weight kg	Index Min.	Unit Max.	Weight kg	Index Min.	Unit Max.
1050	1974	2338	1510	2962	3363
1070	2012	2383	1530	3025	3407
1090	2049	2427	1550	3089	3452
1110	2087	2472	1570	3153	3496
1130	2124	2517	1590	3216	3541
1150	2162	2561	1610	3280	3585
1170	2200	2606	1630	3350	3630
1190	2237	2650	1652	3397	3674
1210	2275	2695			
1230	2312	2739			
1250	2350	2784			
1270	2386	2828			
1290	2425	2873			
1310	2463	2917			
1330	2500	2962			
1350	2538	3006			
1370	2575	3051			
1390	2613	3096			
1410	2655	3140			
1430	2715	3185			
1450	2776	3229			
1470	2837	3274			
1490	2899	3318			

6.2 - AEROPLANE WEIGHT

Aeroplane Type: Beech A36
 Registration Marking VH-PDS Aircraft Serial No. C-2107

Issue	Date	Date of Expiry
2	16-4-85	-

Aeroplane Weight and Centre of Gravity Data:

Empty/Operating Weight (kg) See Note Below	Arm (mm aft of the datum)	Moment Index Units (kg mm)	Cabin Configuration
1082	2070	2240	6 SEATS (total) (Club Conf.)

NOTE: The above weight(s) include UNUSABLE FUEL (15.3 kg), UNDRAINABLE OIL (1.4 kg)

DATUM F.S. 0.2"

NOTE: Refer H de H Weight and Balance Report WB1124 for:
 1. Weighing Summaries.
 2. A/C Weight History.
 3. Empty Weight Equipment List.
 This W & B Report should be located together with the A/C Airframe Log Book

