

TEMPORARY REVISION

TR-MÄM-40-816

Alternate Means for Fuel Quantity Measurement

This Temporary Revision TR-MÄM-40-816 is approved in conjunction with the Mandatory Design Change Advisory MÄM 40-816 and is valid in conjunction with the latest revision of the DA 40 NG Airplane Flight Manual until this Temporary Revision has been incorporated into the Airplane Flight Manual.

The limitations and information contained herein either supplement or, in the case of conflict, override those in the Airplane Flight Manual or its previous Temporary Revisions.

The technical information contained in this document has been approved under the authority of DOA No. EASA.21J.052.

Doc. No.	Chapter	Affected Pages
6.01.15-E	6	6-26a
	7	7-34a thru 7-34d

Instruction

- Print this document on yellow paper (single-sided).
- Insert this cover page as the first page of the AFM.
- Insert the other page of this TR in front of the corresponding AFM page.

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6.5 EQUIPMENT LIST AND EQUIPMENT INVENTORY

The following item is added to the existing table:

Airplane Serial No.:		Registration:		Date:	
Description	Type	Part No.	Manufacturer	S/N	inst'd
FUEL TANK SYSTEM					
Alternate means for fuel qty. II		D4D-2807-90-00_01	Diamond Aircraft		

7.9 POWER PLANT

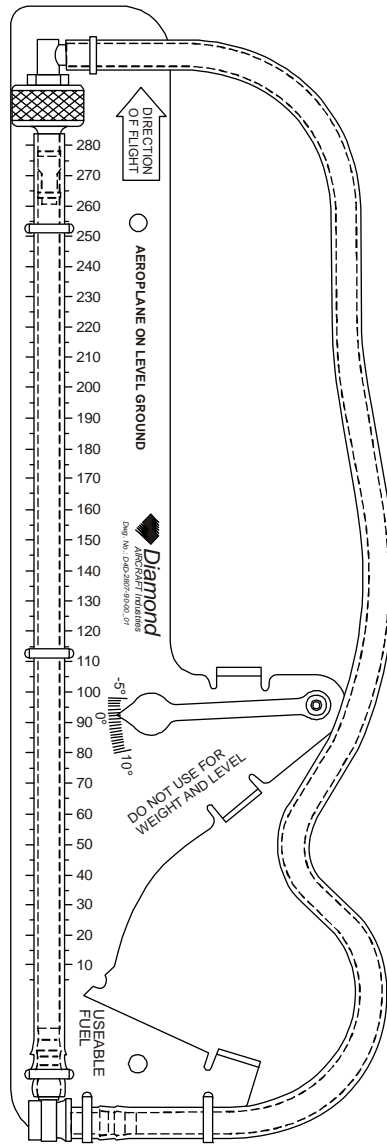
7.9.4 FUEL SYSTEM

Alternate Means for Fuel Quantity Indication

The following is added after the first Paragraph:

- *Fuel Indicator II:*
- For an exact indication the airplane must stand on horizontal ground with the wings level.
- The fuel indicator II includes a protractor for an additional pitch angle measurement. The fuel indicator II is placed on top of the fuselage tube just in front of the vertical tail. The lower edge of the fuel indicator II must be supported by the fuselage for its entire length.
- Read the pitch angle on the fuel indicator II and read the exact fuel quantity on the tables provided.

The Figure is added:



Fuel Quantity Indicator II

The tables are added:

Standard Tank Configuration

Fuel Quantity Indicator II Pitch Angle Reading					Usable Fuel Quantity	
1°	2°	3°	4°	5°	US gal	Liter
up to 5	up to 5	up to 5	up to 5	up to 5	0	0
25	21	16	12	6	1	3.8
47	37	28	20	10	2	7.6
72	58	45	32	30	3	11.3
83	75	55	48	40	4	15.1
90	87	78	71	55	5	18.9
105	97	90	80	73	6	22.7
112	107	98	92	83	7	26.5
123	115	108	103	95	8	30.3
135	128	120	112	105	9	34.1
145	137	130	124	112	10	37.8
160	152	145	137	130	11	41.6
175	168	157	150	143	12	45.4
192	188	180	172	165	13	49.2
225	215	208	202	192	14	53.0

Long Range Tank (if installed) Configuration

Fuel Quantity Indicator II Pitch Angle Reading					Usable Fuel Quantity	
1°	2°	3°	4°	5°	US gal	Liter
up to 5	up to 5	up to 5	up to 5	up to 0	0	0
35	25	16	8	1	1	3.8
45	36	30	20	15	2	7.6
65	48	40	35	28	3	11.3
75	68	55	47	39	4	15.1
92	80	72	66	55	5	18.9
110	90	78	70	65	6	22.7
118	108	95	87	77	7	26.5
130	123	110	100	90	8	30.3
140	132	115	102	95	9	34.1
148	136	129	122	113	10	37.8
162	149	138	130	118	11	41.6
174	158	150	138	131	12	45.4
180	171	162	156	146	13	49.2
185	180	175	166	156	14	53.0
200	195	184	176	168	15	56.8
217	205	196	189	181	16	60.6
232	220	215	204	196	17	64.4
248	238	230	221	214	18	68.1