

Model: DA 40



Aircraft Serial No.:	40.549
Registration:	N102UV
Issue Date:	08.08.05

Original

Aircraft Specific Weighting Report

Data with reference to the Type Certificate Data Sheet and the Flight Manual

Reference Plane: Vertical plane 2194 mm(86.38 in) in front of wing leading edge at root rib.
 Horizontal reference line: Wedge 600:31 (2.96°), 2910mm (114.57 in) aft of step in the cockpit rim.
 Equipment List dated: 08.08.05
 Cause for Weighing: Original

ORIGINAL

Weight and Balance Calculations

Weight Condition:
 Include brake fluid, engine oil and unusable fuel (2 liters/0.5 US gal on each side).

Empty Weight:

Support	Gross		Tare		Net Weight	
	kg	lbs	kg	lbs	kg	lbs
Front, G ₂	122.0	269.0	0	0	122.0	269.0
Main, G _{1LH}	334.3	737.0	0	0	334.3	737.0
Main, G _{1RH}	337.0	743.0	0	0	337.0	743.0
EMPTY WEIGHT, G					793.3	1749.0

Finding Arm: (Measured)

	Lever Arm	
	mm	in.
X ₂	930	36.61
X _{1LH}	2740	107.87
X _{1RH}	2740	107.87

Empty Weight Centre of Gravity, X_{CG}:

Empty Weight CG Formula

$$X_{CG} = \frac{((G_{1LH} + G_{1RH}) * X_1) + (G_2 * X_2)}{G_2 + G_{1LH} + G_{1RH}} = \begin{matrix} 2.462 \text{ m} \\ 96.914 \text{ in.} \end{matrix}$$

Empty Weight Moment, M:

Empty Weight Moment Formula

$$M = G \times X_{CG} = \begin{matrix} 1952.89 \text{ kg}\cdot\text{m} \\ 169502.76 \text{ in}\cdot\text{lbs} \end{matrix}$$

Maximum Permitted Useful Load:

Maximum Ramp Weight	1150.0 kg	2535 lbs
Empty Weight	793.3 kg	1749.0 lbs
Maximum Useful Load	356.7 kg	786.0 lbs

Data to be entered into the Flight Manual:

Empty Weight, G:	<table border="1"> <tr><td>793.3 kg</td></tr> <tr><td>1749.0 lbs</td></tr> </table>	793.3 kg	1749.0 lbs	Empty Weight Moment, M:	<table border="1"> <tr><td>1952.89 kg·m</td></tr> <tr><td>169502.76 in·lbs</td></tr> </table>	1952.89 kg·m	169502.76 in·lbs
793.3 kg							
1749.0 lbs							
1952.89 kg·m							
169502.76 in·lbs							
Place: D.A.I.C. - CYXU Date: 08.08.05	Authorizing Stamp DA Q 42	Authorizing Signature 					

**AIRCRAFT DOCUMENTS
DO NOT DISCARD**



AVIONICS OF MODERN AERO, INC.

14801 Pioneer Trail
Eden Prairie, MN 55347
Phone: (952) 941-2595
Repair Station #: 05VR353Y

SUPPLEMENTAL WEIGHT AND BALANCE DATA AND EQUIPMENT LIST

MAKE	<u>Diamond</u>	SERIAL NUMBER	<u>40.549</u>
MODEL	<u>DA40</u>	REGISTRATION	<u>N102UV</u>
PREPARED BY	<u>F. Nook</u>	DATE	<u>3/10/2006</u>

ITEM DESCRIPTION	WEIGHT	ARM	MOMENT	
<u>PREVIOUS DATA</u>	1749.00	96.91	169502.76	
<u>INSTALLED:</u> GDL69A system	2.49	161.10	401.14	
<i>Succeeded 2-12-07</i>				
GROSS WEIGHT	USEFUL LOAD	EMPTY WEIGHT	EMPTY WGT CG	MOMENT
2535.00	783.51	1751.49	97.01	169903.90

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14801 Pioneer Trail
Eden Prairie, MN 55347
Phone: (952) 941-2595
Repair Station #: 05VR353Y

SUPPLEMENTAL WEIGHT AND BALANCE DATA AND EQUIPMENT LIST

MAKE Diamond SERIAL NUMBER 40.549
MODEL DA40 REGISTRATION N102UV
PREPARED BY F. Nook DATE 2/12/2007

ITEM DESCRIPTION	WEIGHT	ARM	MOMENT	
<u>PREVIOUS DATA</u>	1751.49	97.01	169903.90	
INSTALLED:				
TAS610 Processor s/n 0701144	6.80	138.70	943.16	
Top Antenna s/n 4411	0.70	168.70	118.09	
Bottom Antenna s/n 4283	0.80	106.50	85.20	
TXP Coupler s/n 0702042	0.50	155.70	77.85	
<i>SEE REVISION 7-11-2007</i>				
<i>SUPERCEDED 3-14-07</i>				
Note: All weights are in pounds, all lengths are in inches				
GROSS WEIGHT	USEFUL LOAD	EMPTY WEIGHT	EMPTY WGT CG	MOMENT
2535.00	774.71	1760.29	97.22	171128.20

**AIRCRAFT DOCUMENTS
DO NOT DISCARD**



MODERN AERO, INC.

14801 PIONEER TRAIL-EDEN PRAIRIE, MN. 55347
PHONE:(952) 941-2595

FAA APPROVED REPAIR STATION
MZER 198L

SUPPLEMENTAL WEIGHT AND BALANCE DATA AND EQUIPMENT

MAKE DIAMOND SERIAL NUMBER 40.549
MODEL DA-40 REGISTRATION N102UV
PREPARED BY KEN F DATE March 14, 2007

ITEM DESCRIPTION	WEIGHT	ARM	MOMENT
PREVIOUS WEIGHT & BALANCE:	1760.29	97.22	171,128.20
REMOVED NOSE WHEEL FARING	-2.10	39.40	-82.74
TOTAL	1758.19	97.28	171045.46
MAX. T.O. WEIGHT: <u>2535</u>			
MAX. RAMP WEIGHT <u>2535</u>			
CATEGORY	EMPTY WEIGHT	EMPTY CENTER OF GRAVITY	USEFUL LOAD
NORMAL	1758.19	97.28	776.81

AIRCRAFT DOCUMENTS
DO NOT DISCARD



MODERN AERO, INC.

14801 PIONEER TRAIL-EDEN PRAIRIE, MN. 55347
 PHONE:(952) 941-2595

FAA APPROVED REPAIR STATION
 MZER 198L

SUPPLEMENTAL WEIGHT AND BALANCE DATA AND EQUIPMENT

MAKE DIAMOND SERIAL NUMBER 40.549
 MODEL DA-40 REGISTRATION N102UV
 PREPARED BY M WELLE DATE APRIL 24 2007

ITEM DESCRIPTION	WEIGHT	ARM	MOMENT
PREVIOUS WEIGHT & BALANCE: DATED MARCH 14, 2007	1758.19	97.28	171,045.46
INSTALLED NOSE WHEEL FAIR ING	2.10	39.40	82.74
<i>SUPERCEDED 7-11-2007</i> TOTAL	1760.29	97.22	171128.20
MAX. T.O. WEIGHT: <u>2535</u>			
MAX. RAMP WEIGHT <u>2535</u>			
CATEGORY	EMPTY WEIGHT	EMPTY CENTER OF GRAVITY	USEFUL LOAD
NORMAL	1760.29	97.22	774.71

AIRCRAFT DOCUMENT
 DO NOT DISCARD



AVIONICS OF MODERN AERO, INC.

14801 Pioneer Trail
Eden Prairie, MN 55347
Phone: (952) 941-2595
Repair Station #: 05VR353Y

SUPPLEMENTAL WEIGHT AND BALANCE DATA AND EQUIPMENT LIST

MAKE Diamond SERIAL NUMBER 40.549
MODEL DA-40 REGISTRATION N102UV
PREPARED BY R. Johnson DATE 7/11/2007

Super dated see 8-28-07

ITEM DESCRIPTION	WEIGHT	ARM	MOMENT	
<u>PREVIOUS DATA</u>	1760.29	97.22	171128.20	
<u>REMOVED:</u>				
TAS610 Processor	-6.80	138.70	-943.16	
TXP Coupler	-0.50	155.70	-77.85	
GROSS WEIGHT	USEFUL LOAD	EMPTY WEIGHT	EMPTY WGT CG	MOMENT
2535.00	782.01	1752.99	97.04	170107.19

AIRCRAFT DOCUMENTS
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SEE ENGINE
LOG ENTRY
8-29-2007



MODERN AERO, INC.

14801 PIONEER TRAIL-EDEN PRAIRIE, MN. 55347
PHONE:(952) 941-2595

FAA APPROVED REPAIR STATION
MZER 198L

SUPPLEMENTAL WEIGHT AND BALANCE DATA AND EQUIPMENT

MAKE DIAMOND SERIAL NUMBER 40.549
 MODEL DA-40 REGISTRATION N102UV
 PREPARED BY AM DATE August 28, 2007

ITEM DESCRIPTION	WEIGHT	ARM	MOMENT
PREVIOUS WEIGHT & BALANCE:	1752.99	97.04	170,107.19
INSTALLED TANIS ENGINE PREHEATER	1.06	39.40	41.76
TOTAL	1754.05	97.28	170633.84
CATEGORY	EMPTY WEIGHT	EMPTY CENTER OF GRAVITY	USEFUL LOAD
NORMAL	1754.05	97.28	891.95

AIRCRAFT DOCUMENTS
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6.5 EQUIPMENT LIST AND EQUIPMENT INVENTORY

All equipment that is approved for installation in the DA 40 is shown in the *Equipment List* below.

The items of equipment installed in your particular airplane are indicated in the appropriate column. The set of items marked as 'installed' constitutes the *Equipment Inventory*.

NOTE

The equipment listed below cannot be installed in any arbitrary combination. The airplane manufacturer must be contacted before removing or installing equipment, with the exception of replacing a unit by an identical unit.

Airplane Serial No.: 40.549		Registration: N102UV		Date: 2/9/07	
Description	Type	Part No.	Manufacturer	S/N	in- stalled
AVIONICS COOLING					
Cooling fan	Cyclone 21-3 Port	CRB122253	Lone Star Aviation		
Cooling fan	ACF 328	ACF 328	Sandia Aerospace	N/A	X
COMMUNICATION					
COMM 1 antenna	DMC63-1/A		DM	N/A	X
COMM 2 antenna	DMC63-2		DM	N/A	X
COMM #1	KX 125	069-01028-1101	Bendix/King		
COMM #1	KX 155A	069-01032-0201	Bendix/King		
COMM #1	KX 165	069-01025-0025	Bendix/King		
COMM #1	KX 165A	069-01033-0101	Bendix/King		
COMM #1	KX 165A / 8.33 kHz	069-01033-0201	Bendix/King		
COMM #1	GNS 430	011-00280-00	Garmin		
COMM #1	GNS 430	011-00280-10	Garmin		
COMM #1	GNS 530	011-00550-00	Garmin		
COMM #1	GNS 530	011-00550-10	Garmin		
COMM #2	KX 155A	069-01032-0201	Bendix/King		
COMM #2	GNS 430	011-00280-00	Garmin		
COMM #2	GNS 430	011-00280-10	Garmin		

Airplane Serial No.:		Registration:		Date:	
Description	Type	Part No.	Manufacturer	S/N	in- stalled
ELECTRICAL POWER					
Battery	CB24-11M (G243)		Concorde (Gill)		
Battery	RG24-11M		Concorde		
Battery	RG24-15M		Concorde	40131280	X
Emergency Battery (28 pcs.)	MN 1500 AA		Duracell		
Emergency Battery (Lithium)		D41-2560-93-00	Excell	N/A	X
Ammeter	VM1000	4010050	Vision Microsyst.		
Ammeter current sensor	VM1000	3010022	Vision Microsyst.		
Voltmeter	VM1000	4010050	Vision Microsyst.		
Voltage regulator		VR2000-28-1 (D)	Electrosyst., Inc.		
External power connector			DAI	N/A	X
Alternator	ALU-8521LS	ALU-8521LS	Electrosyst., Inc.	N/A	X
DC-AC Inverter	MD 26	MD 26-28	Mid Continent		
EQUIPMENT					
Safety belts, pilot		5-01-1C0701	Schroth	N/A	X
Safety belts, co-pilot		5-01-1C5701	Schroth	N/A	X
Safety belts, RH pax		5-01-1B0701	Schroth	N/A	X
Safety belts, LH pax		5-01-1B5701	Schroth	N/A	X
ELT unit		E-01	ACK	53130	X
ELT remote switch		E0105	ACK	N/A	X
ELT antenna		E0109	ACK	N/A	X
ELT Unit	JE2-NG	JE-1978-1NG	Jolliet		
ELT remote switch		JE-1978-16	Jolliet		
ELT antenna		JE-1978-73	Jolliet		
Winter Baffle		DA4-2157-00-00	DAI	N/A	X
Armrest		DA4-5210-50-91	DAI		
Baggage Extension (OAM 40-163)				N/A	X
Baggage Net (OAM 40-163)				N/A	X
Baggage Tray (OAM 40-164)				N/A	X
FLIGHT CONTROLS					
Stall horn		DAI-9031-00-00	DAI	N/A	X
Flaps control unit (inst. panel)	430550		DAI	N/A	X
Flaps actuator assy	430555		DAI	N/A	X
SAFETY EQUIPMENT					
Fire extinguisher, portable		HAL 1	AIR Total		
Fire extinguisher, portable "1"		A 620 T	Amerex	N/A	X
First aid kit					

Airplane Serial No.:		Registration:		Date:	
Description	Type	Part No.	Manufacturer	S/N	in- stalled
FUEL					
Fuel qty indicator	VM1000	4010028	Vision Microsyst.		
Fuel qty sensor LH	VM1000	30100-11	Vision Microsyst.		
Fuel qty sensor RH	VM1000	30100-11	Vision Microsyst.		
Fuel qty. sensor LH (auxiliary fuel)	VM1000	30100-50	Vision Microsyst.		
Fuel qty. sensor RH (auxiliary fuel)	VM1000	30100-50	Vision Microsyst.		
HYDRAULIC					
Master cylinder		10-54	Cleveland	N/A	X
Parking valve		60-5B	Cleveland	N/A	X
Brake assembly		30-239	Cleveland	N/A	X
INDICATING / REC. SYSTEMS					
Digital chronometer	LC-2	AT420100	AstroTech		
Digital chronometer	Model 803	none	Davtron		
Flight timer		85000-12	Hobbs	N/A	X
Flight timer		85094-12	Hobbs		
Annunciator panel (system)			DAI		
Annunciator panel	WW-IDC 001		White Wire		
LANDING GEAR					
MLG Wheel Fairing Inst.		DA4-3215-00-00	DAI	N/A	X
MLG Speed Kit LH		DA4-3219-01-00	DAI	N/A	X
MLG Speed Kit RH		DA4-3219-02-00	DAI	N/A	X
NLG Wheel Fairing Inst.		DA4-3225-00-00	DAI	N/A	X
NLG Speed Kit		DA4-3229-00-00	DAI	N/A	X
NLG Strut Fairing Inst.		DA4-3227-00-00	DAI	N/A	X
NLG tie-down		DA4-1001-00-00	DAI	N/A	X
LIGHTS					
Map/Reading light assy crew		W1461.0.010	Rivoret	N/A	X
Cabin light		W1461.0.010	Rivoret	N/A	X
Instr./Radio lights dimmer assy		WW-LCM-002	White Wire		
Glareshield lamp assy		DA4-3311-10-01	DAI	N/A	X
Glareshield light inverter		APVL328-8-3-L-18QF	Quantaflex	N/A	X
Strobe/Pos. light assy LH	A600-PR-D-28	01-0790006-05	Whelen	N/A	X
Strobe/Pos. light assy RH	A600-PG-D-28	01-0790006-07	Whelen	N/A	X
Strobe light power supply LH/RH	A490ATS-CF-14/28	01-0770062-05	Whelen	N/A	X
Taxi light	70346	01-0770346-05	Whelen	N/A	X
Landing light	70346	01-0770346-03	Whelen	N/A	X
Electroluminescent lamps	Quantaflux 1600		Quantaflux	N/A	X

Airplane Serial No.:		Registration:		Date:	
Description	Type	Part No.	Manufacturer	S/N	in- stalled
COMMUNICATION (continued)					
Audio Panel / Marker / ICS	KMA 28	066-01176-0101	Bendix/King		
Audio Panel / Marker / ICS	GMA 340	011-00401-10	Garmin		
ICS	PM1000 II	11922	PS Engineering		
Headset, pilot	Echelon 100		Telex		
Headset, co-pilot	Echelon 100		Telex		
Headset, LH pax	Echelon 100		Telex		
Headset, RH pax	Echelon 100		Telex		
Speaker	FRS8 /4 Ohms		Visaton	N/A	X
Handmic	100TRA	62800-001	Telex	N/A	X
AUTOPILOT SYSTEM					
	KAP 140		Bendix/King	N/A	X
Flight computer(w/o alt. preselect)	KC 140	065-00176-5402 (without MAM 40-099 or MSB 40-018)	Bendix/King		
Flight computer(with alt. preselect)	KC 140	065-00176-7702 (without MAM 40-099 or MSB 40-018)	Bendix/King		
Flight computer(w/o alt. preselect)	KC 140	065-00176-5403 (with MAM 40-099 or MSB 40-018)	Bendix/King		
Flight computer(with alt. preselect)	KC 140	065-00176-7703 (with MAM 40-099 or MSB 40-018)	Bendix/King	8902	X
Pitch servo	KS 270 C	065-00178-2500	Bendix/King	82600	X
Pitch servo mount	KM 275	065-00030-0000	Bendix/King	N/A	X
Roll servo	KS 271 C	065-00179-0300	Bendix/King	10543	X
Roll servo mount	KM 275	065-00030-0000	Bendix/King	N/A	X
Trim servo	KS 272 C	065-00180-3500	Bendix/King	7824	X
Trim servo mount	KM 277	065-00041-0000	Bendix/King	N/A	X
Configuration module	KCM 100	071-00073-5000	Bendix/King	13629	X
Sonalert	SC	SC 628	Mallory	N/A	X
Control stick		DA4-2213-12-90	DAI	N/A	X
CWS switch		031-00514-0000	Bendix/King	N/A	X
AP-Disc switch		031-00428-0000	Bendix/King	N/A	X
Trim switch assy.		200-09187-0000	Bendix/King	N/A	X

Airplane Serial No.:		Registration:		Date:	
Description	Type	Part No.	Manufacturer	S/N	in- stalled
NAVIGATION					
Pitot/Static probe, heated		DAI-9034-57-00	DAI	N/A	X
P/S probe HTR fail sensor		DA4-3031-01-00	DAI	N/A	X
Altimeter inHg/mbar, primary		5934PD-3	United In.		
Altimeter inHg/mbar, primary	LUN 1128	1128-14B6	Mikrotechna		
Altimeter inHg/mbar, secondary		5934PD-3	United In.	446479	X
Altimeter inHg/mbar, secondary	LUN 1128	1128-14B6	Mikrotechna		
Vertical speed indicator		7000	United In.		
Vertical speed indicator	LUN 1144	1144-A4B4	Mikrotechna		
Airspeed indicator		8025	United In.	134626	X
Airspeed indicator	LUN 1116	1116-B4B3	Mikrotechna		
Outside air temp. indic.		301F (C)	Davtron		
Magnetic compass		C2400L4P	Airpath		
Compass system C/O	KCS 55A		Bendix/King		
Slaved gyro	KG 102 A	060-00015-0000	Bendix/King		
HSI	KI 525A	066-03046-0007	Bendix/King		
Slaving unit (vertical)	KA 51B	071-01242-0001	Bendix/King		
Slaving unit (horizontal)	KA 51B	071-01242-06	Bendix/King		
Flux valve	KMT 112	071-01052-0000	Bendix/King		
Dir. gyro, free	AIM2051BLD	505-0031-931	BF-Goodrich		
Altitude indicator	AIM1100-28L(0F)	504-0111-936	BF-Goodrich		
Altitude indicator	AIM1100-28LK(0F)	504-0111-938	BF-Goodrich		
Altitude indicator	AIM1100-28LK(2F)	504-0111-941	BF-Goodrich		
Turn coordinator w/o AP pickup	1394T100-(3Z)		Mid Continent Instr.		
Turn coordinator	1394T100-(12RZ)		Mid Continent Instr.		
Turn coordinator	1394T100-(12RA)		Mid Continent Instr.	5031918	X
Marker antenna	C1102		Comant		
DME	KN 62A	066-01068-0004	Bendix/King		
DME antenna	KA60	071-01174-0000	Bendix/King		
DME antenna	KA60	071-01591-0001	Bendix/King		
DME antenna	KA61	071-00221-0010	Bendix/King		
Transponder	KT 76A	066-1062-10	Bendix/King		
Transponder	KT 76C	066-01156-0101	Bendix/King		
Transponder	GTX 327	011-00490-00	Garmin		
Transponder	GTX 330	011-00455-00	Garmin		
XPDR antenna	KA60	071-01174-0000	Bendix/King		
XPDR antenna	KA60	071-01591-0001	Bendix/King	N/A	X
XPDR antenna	KA61	071-00221-0010	Bendix/King		
Altitude digitizer		D120-P2-T	TCI		
Altitude Data System	SAE5-35	305154-00	Sandia Aerospace		
Altitude Indicator		504-011-944	BF-Goodrich	25198	X

Airplane Serial No.:		Registration:		Date:	
Description	Type	Part No.	Manufacturer	S/N	in- stalled
ENGINE	IO-360 M1A		Textron Lycoming		
ENGINE FUEL CONTROL					
Fuel flow transmitter	VM1000	3010032	Vision Microsyst.		
Fuel pressure transmitter	VM1000	3010017	Vision Microsyst.		
ENGINE IGNITION SYSTEM					
SlickSTART booster	SS1001		Unison	N/A	X
Lasar ignition controller	LC-1002-03	LC-1002-03	Unison		
Lasar ignition harness	LH-1004-43		Unison		
Magneto RHLH	4370/4347		Slick	N/A	X
Magneto RHLH	4770/4771		Slick		
ENGINE INDICATING					
RPM sensor	VM1000	3010005	Vision Microsyst.		
Manifold pressure sensor	VM1000	3010016	Vision Microsyst.		
Cyl. head temp. probes (4 each)	VM1000	1020061	Vision Microsyst.		
EGT probes	VM1000	1020060	Vision Microsyst.		
Data processing unit	DPU	4010067	Vision Microsyst.		
Data processing unit	DPU	4010081	Vision Microsyst.		
Intergr. engine data display	VM1000	4010050	Vision Microsyst.		
I/O board assy.		3020003	Vision Microsyst.		
I/O board assy.		3020018	Vision Microsyst.		
ENGINE OIL					
Oil temperature sensor	VM1000	3010021	Vision Microsyst.		
Oil pressure transducer	VM1000	3010018	Vision Microsyst.		
ENGINE STARTING					
Starter	149-24LS		SKYTEC	N/A	X

Airplane Serial No.:		Registration:		Date:	
Description	Type	Part No.	Manufacturer	S/N	in- stalled
PROPELLER SYSTEM					
Propeller	MTV-12-B/180-17		mt-Propeller		
Propeller	MTV-12-B/180-17		mt-Propeller		
Propeller Governor	C-210776		Woodward	N/A	X
Propeller Governor	MT-P420-10	P-420-010	mt-Propeller		
AIRPLANE FLIGHT MANUAL					
		Doc. No 6.01.01(-E)	DAI	N/A	X

- 1) The Amerex A 620 T fire extinguisher is UL approved and can be used in airplanes registered in Canada and the USA. For airplanes registered in other countries, refer to the national airworthiness authority.

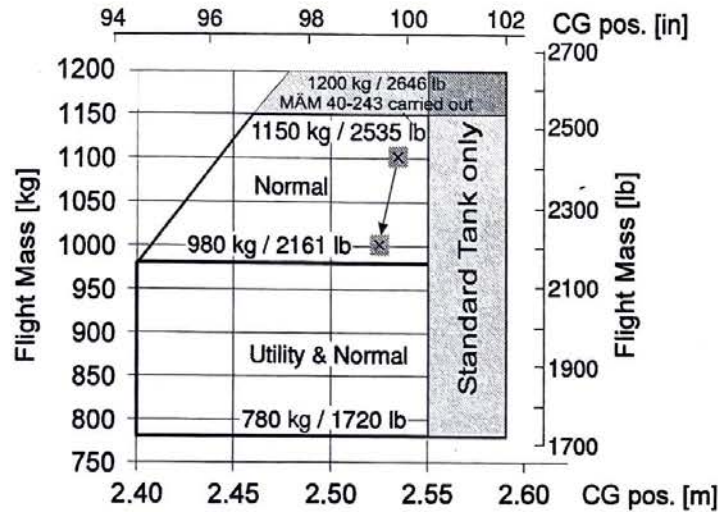
Place: Moden Aero Date: 2/9/07

Signature: Ken Fuchs

Airplane Serial No.:		Registration:		Date:	
Description	Type	Part No.	Manufacturer	S/N	in- stalled
NAVIGATION (continued)					
ADF	KR87	066-01072-0004	Bendix/King		
ADF antenna	KA44B	071-01234-0000	Bendix/King		
ADF Indicator	KI227	066-03063-0001	Bendix/King		
ADF Indicator	KI227	066-03063-00	Bendix/King		
NAV antenna coupler	CI505		Comant	N/A	X
NAV/GS antenna coupler	CI507		Comant		
dual NAV/dual GS antenna coupler	CI 1125		Comant		
VOR/LOC/GS antenna		CI157P	Comant		
NAV/COM #1	KX125	069-01028-1101	Bendix/King		
NAV/COM #1 volt conv.	KA39	071-01041-0001	Bendix/King		
NAV/COM #1	KX155A	069-01032-0201	Bendix/King		
NAV/COM #1	KX 165	069-01025-0025	Bendix/King		
NAV/COM #1	KX165A	069-01033-0101	Bendix/King		
NAV/COM #1	KX165A, 8.33 kHz	069-01033-0201	Bendix/King		
NAV/COM #2	KX155A	069-01032-0201	Bendix/King		
NAV/COM/GPS #1	GNS 430	011-00280-00	Garmin		
NAV/COM/GPS #1	GNS 430	011-00280-10	Garmin		
NAV/COM/GPS #1	GNS 530	011-00550-00	Garmin		
NAV/COM/GPS #1	GNS 530	011-00550-10	Garmin		
NAV/COM/GPS #2	GNS 430	011-00280-00	Garmin		
NAV/COM/GPS #2	GNS 430	011-00280-10	Garmin		
CDI, VOR/LOC #1	KI 208	066-03056-0000	Bendix/King		
CDI, VOR/LOC #2	KI 208	066-03056-0000	Bendix/King		
CDI, VOR/LOC/GS #1	GI 106A	013-00049-01	Garmin		
CDI, VOR/LOC/GS #2	GI 106A	013-00049-01	Garmin		
GPS	KLN 89B	066-01148-0102	Bendix/King		
GPS	KLN 94	069-01034-0101	Bendix/King		
GPS antenna	KA 92	071-01553-0200	Bendix/King		
GPS antenna #1	GA 56	011-00134-00	Garmin	N/A	X
GPS antenna #2	GA 56	011-00134-00	Garmin	N/A	X
GPS annunciator unit	MD41-1488		Mid Continent		
GPS/AP switch assy	MB41-528		Mid Continent		
Multifunction Display / GPS	KMD 150	066-01174-0101	Bendix/King		
Stormscope	WX-500	805-11500-001	Goodrich		
Stormscope Antenna	NY-163	805-10930-001	Goodrich		
Strike Finder Display	SF 2000	2000-009	Insight		
Strike Finder Sensor	SF 2000	2000-022	Insight		
			Garmin	N/A	X
			Garmin	N/A	X

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

6.4.5 PERMISSIBLE MOMENT RANGE

The diagram is replaced by the following:

