

N852HW WEIGHT BALANCE DATA AS OF 11/26/03 11:34 AM

BASIC DATA				
ITEM	WEIGHT	ARM	MOM/100	
N582HW Basic Weight From Form C	3298.5	135.9	4484.3	
MEDICAL EQUIPMENT	227.5	105.6	240.2	
REMOVED MEDICAL EQUIPMENT	0.0	130.8	0.0	
AFT COMPARTMENT EQUIPMENT	30.0	181.1	5433.0	
SUBTOTAL	3526.0	134.0	4724.6	
PILOT	180.0	61.1	110.0	
FLIGHT NURSE	130.0	100.0	130.0	
PARAMEDIC	260.0	100.0	260.0	
ZERO FUEL TOTAL	4096.0	127.6	5224.5	
PLANNED PATIENT WEIGHT	0.0	71.0	0.0	
SUBTOTAL	4096.0	127.6	5224.5	
FUEL	562.8	136.8	770.0	
TOTAL	4658.8	128.7	5994.5	

PLANNING FIGURES	
Maximum Patient Weight with Above Fuel	302
Approximate fuel burn in pounds per nautical mile	2.7
Approximate fuel burn in pounds per minute	5.0
Maximum radius (nautical miles) with above fuel and reserve	78
Maximum range (nautical miles) with above fuel and reserve	156

Configuration	Load Weight	Min Fuel Limited by Fwd CG	Max Fuel Limited by Weight	Nautical Miles With Reserve	
				Radius	Range
Without Patient		0%	100%	152	304
With Above Patient	0	0%	92%	138	275
With Isolette	188	0%	72%	101	201

The following calculations are without regard to the above patient of fuel and assume that the entire load is placed on the patient litter at station 71.0

Fuel percentage	70%	60%	50%	40%	30%
Fuel Weight	668.5	574.8	479.0	383.2	287.4
Total Weight	4764.5	4670.8	4575.0	4479.2	4383.4
Aircraft C-G	128.8	128.7	128.5	128.3	128.2
Available Load	196.5	290.2	386.0	481.8	577.6
C-G at Max Gross Weight	126.6	125.3	124.0	122.8	121.5

LIMITATIONS			ASSUMPTIONS	
MAX GROSS WEIGHT..... 4961			Fuel Reserve	18%
CENTER OF GRAVITY			Fuel Burn Rate	31% per hour
WEIGHT	FWD	AFT	Usable fuel capacity	140 Gallons
4961	124.8	137.8	Fuel Weight/Gallon	6.7 lbs/gal
			Average Ground Speed	115 Knots

Pam Sullivan

Rocky Mountain Helicopters Equipment List										
Model # AS350B2 N 852HW S/N 2630 Page 1 of 4					Weighings					
Item No	Description	Weight (kgs)	Alt (ft)	Volume (cu ft)	1	2	3	4	5	
					30-Jun-00	Date	Date	Date	Date	
1	nat ams43 audio panel	2.00	40.50	81.00	x					
2	nat ams43 overhead audio	2.00	77.00	154.00	x					
3	kx165 nav/com	2.54	32.00	81.28	x					
4	kx165 nav/com	2.54	32.00	81.28	x					
5	kr87 adf reciever	3.20	32.00	102.40	x					
6	kt 70 transponder	3.88	32.00	124.16	x					
7	ka-51b slave ctl	0.20	34.00	6.80	x					
8	ed-461 ehsl display	5.40	33.00	178.20	x					
9	aim 505-2b gyro	2.80	33.00	92.40	x					
10	aim510-1a gyro	3.00	33.00	99.00	x					
11	d120-p2-t encoder	1.20	33.00	39.60	x					
12	aim tc120-3d turn&bank	1.80	34.00	61.20	x					
13	RDS-811 RADAR RT	10.50	14.00	147.00	x					
14	CP-466A RADAR CTL	2.50	37.00	92.50	x					
15	ka-33 fan	1.25	27.00	33.75	x					
16	d&m dmh69-1 splitter	0.20	29.00	5.80	x					
17	narco elt ant 1652-0101	0.10	10.50	1.05	x					
18	kni-582 rmi indicator	3.00	31.00	93.00	x					
19	amcomm apc 355 auto pilot	1.00	33.00	33.00	x					
20	kn 40 nav conv.	6.00	170.50	1023.00	x					

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Model #AS350B2 N 852HW S/N 2630 Page 2 of 4					Weighings					
Item No	Description	Weight (kgs)	Alt (ft)	Volume (cu ft)	1	2	3	4	5	
					30-Jun-00	Date	Date	Date	Date	
21	kgs-105 d.g.	4.80	168.50	808.80	x					
22	ka-118 hdg adapter	0.20	166.00	33.20	x					
23	sg-464 sym generator	7.95	171.00	1359.45	x					
24	flitics pc-50 inverter	1.95	168.50	328.58	x					
25	jet ps-835d stby batt.	13.00	168.50	2190.50	x					
26	ka-44b antenna	3.00	93.00	279.00	x					
27	ka-60 txp antenna	0.50	16.00	8.00	x					
28	dmc57-1 uhf ant.	0.50	71.00	35.50	x					
29	dmc63-3/a vhf ant.	0.50	82.00	41.00	x					
30	kmt-112 flux valve	0.13	245.50	31.92	x					
31	dmc70-1/a comm ant.	0.50	265.00	132.50	x					
32	dmc70-1/a comm ant.	0.50	316.00	158.00	x					
33	dmn48-1 nav ant.	1.12	224.00	250.88	x					
34	narco elt 910	4.00	81.00	324.00	x					
35	tfm 30 transciever	3.10	69.00	213.90	x					
36	tfm 500 fm transciever	5.10	63.00	321.30	x					
37	radome	3.30	3.00	9.90	x					
38	cabin fire extinguisher	2.50	60.50	151.25	x					
39	cabin support braces	1.00	133.50	133.50	x					
40	circuit breaker panel	0.20	37.50	7.50	x					

Rocky Mountain Helicopters

BASIC WEIGHT AND BALANCE RECORD

Continuous History of Weight and Balance

Aircraft Model		Serial Number		Weight Change						Registration Number		
AS350B2		2630		Added (+)			Removed (-)			N852HW		
Date	Description of Modification	Weight	Arm	Moment	Weight	Arm	Moment	LBS.				
								Weight	Moment	C.G.		
6/30/2000	New empty weight							3238.24	431927.41	133.38		
6/30/2000	add Ballast weight	40.8	399.61	16,304.08				3279.04	448231.52	136.69		
6/30/2000	add SX-5 Light + gimbal frame	19.5	199.68	3893.76				3298.54	448431.2	135.94		
7/6/2000	Remove overhead roll mount				11.0	64.0	704.0	3287.54	447727.2	136.19		
	Removed life Port upper deck				36.4	70.47	2565.11	3251.14	447656.73	137.69		
	Removed aero sled (Life port)				30.0	70.47	2114.10	3221.14	447586.26	138.95		
	Removed "L" Bracket				10.5	63.0	661.50	3210.64	447523.26	139.38		
	Removed Propag mount				3.50	68.0	238.00	3207.14	447455.26	139.52		
	Removed TFM 30 transceiver				3.10	69.0	213.90	3204.04	447386.26	139.63		
	Removed TFM 500 transceiver				5.10	63.0	321.30	3198.94	447323.26	139.83		
	Removed life Port med deck FIR Pit				14.0	70.47	986.58	3184.94	447252.79	140.42		
▽	Removed copilot's comp. floor				11.50	69.23	796.15	3173.44	447183.56	140.91		

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Rocky Mountain Helicopters

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Continuous History of Weight and Balance

Aircraft Model		Serial Number		Weight Change						Registration Number		
AS350B2		2630		LBS. Added (+)			Removed (-)			LBS. N852HW		
Date	Description of Modification	Weight	Arm	Moment	Weight	Arm	Moment	Weight	Moment	C.G.		
7/6/2000	Install copilot seat	23.4	63.42	1484				3173.44	447183.56	140.91		
7/6/2000	Install dual controls	5.1	44.11	225				3196.84	447246.98	139.90		
7/12/2000	Remove dual controls				5.1	44.11	225	3201.94	447291.09	139.69		
7/12/2000	Remove copilot seat				23.4	63.42	1484	3196.84	447246.98	139.90		
	Install copilot's comp. floor FIR	11.50	69.23	796.15				3173.44	447183.56	140.91		
	Install life Port med deck pit	14.0	70.47	986.58				3184.94	447252.79	140.42		
	Install TFM 500 transceiver	5.1	63.0	321.30				3198.94	447323.26	139.83		
	Install TFM 30 transceiver	3.1	69.0	213.90				3204.04	447386.26	139.63		
	Install Propag mount	3.5	68.0	238.0				3207.14	447455.26	139.52		
	Install "L" Bracket	10.5	63.0	661.5				3210.64	447523.26	139.38		
▽	Installed aero sled (Life port)	30.0	70.47	2114.10				3221.14	447586.26	138.95		
								3251.14	447656.73	137.69		

Rocky Mountain Helicopters

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Continuous History of Weight and Balance

Aircraft Model		Serial Number		Weight Change						Registration Number		
AS350B2		2630		Added (+)			Removed (-)			N852HW		
Date	Description of Modification	Weight	Arm	Moment	Weight	Arm	Moment	Weight	Moment	C.G.		
07/12/2000								3251.14	447656.73	137.69		
	Installed Life Port upper deck	36.4	70.47	2585.11				3287.54	447727.2	136.19		
	Install overhead roll mount	11.0	64.0	704.0				3298.54	448431.2	135.74		
8-2-00	Removed A/Cut Battery				36.4	147.78	5404.67	3262.14	443026.5	135.81		
8-2-00	Installed Lead Acid Battery	41.0	148.48	6087.68				3303.14	449114.2	135.97		
11/2/00	REMOVED SX-5 LIGHT + GIMBAL + FRAME				19.5	199.68	3893.76	3283.64	445220.44	135.59		
11/6/00	INSTALLED SX-5 LIGHT + GIMBAL + FRAME	19.5	199.68	3893.76				3303.14	449114.2	135.97		
1-31-01	Removed SX-5 Light + Gimbal + Frame				19.5	199.68	3893.76	3283.64	445220.44	135.59		
2-6-01	Installed SX-5 Light + Gimbal + Frame	19.5	199.68	3893.76				3303.14	449114.2	135.97		
6-29-01	REMOVED RDS-811 RADAR AT				10.5	14.0	147.00	3292.64	448967.2	136.35		
6-29-01	INSTALL BALLAST WEIGHT	10.5	14.0	147.00				3303.14	449114.2	135.97		
7-2-01	Removed Ballast Weight				10.5	14.0	147.00	3292.64	448967.2	136.35		

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Aircraft Model		Serial Number		Weight Change						Registration Number		
AS350B2		2630		Added (+)			Removed (-)			N852HW		
Date	Description of Modification	Weight	Arm	Moment	Weight	Arm	Moment	Weight	Moment	C.G.		
7-2-01	Installed RDS-811 Radar AT	10.5	14.0	147.00				3303.14	449114.2	135.97		
8-13-01	Removed SX-5 Light				19.5	199.68	3893.76	3283.64	445220.44	135.59		
8-28-01	Installed SX-5 Light	19.5	199.68	3893.76				3303.14	449114.2	135.97		
10-29-01	Removed SX-5 Light				19.5	199.68	3893.76	3283.64	445220.44	135.59		
12-3-01	Installed SX-5 Light	19.5	199.68	3893.76				3303.14	449114.2	135.97		
2-2-02	Removed SX-5 Light				19.5	199.68	3893.76	3283.64	445220.44	135.59		
2-22-02	Installed SX-5 Light	19.5	199.68	3893.76				3303.14	449114.2	135.97		
4-16-02	Removed SX-5 Light				19.5	199.68	3893.76	3283.64	445220.44	135.59		
5-10-02	Installed SX-5 Light	19.5	199.68	3893.76				3303.14	449114.2	135.97		