

WEIGHT & BALANCE REPORT

Original as Weighed on: 12-Jun-00

Registration: C-GSHT
 Manufacturer: MD HELICOPTERS INC.
 Model: 500D
 Serial No: 911083D

Scales P/N: 85-00914-01
 S/N: 1308-3C
 Weighed with: All oils full
 Zero Fuel

Weighing points
 Fwd Jackpoint, L/H
 Fwd Jackpoint, R/H
 Aft Jackpoint

Scale	Tare	Net Weight	Arm	Moment
710.0	0.0	710.0	96.9	68799.0
690.0	0.0	690.0	96.9	66861.0
195.0	0.0	195.0	197.2	38454.0
		1595.0	109.2	174114.0

remove plump bob

Empty Weight & C of G

Longitudinal			Lateral	
Weight	Arm	Moment	Arm	Moment
1595.0	109.2	174114.0	-0.32	-512.0
-2.0	96.9	-193.8	25.6	-51.2
1593.0	109.2	173920.2	-0.35	-563.2

Most Forward C of G

Empty Weight	1593.0	109.2	173920.2	-0.35	-563.2
Pilot	170.0	73.5	12495.0	-13.00	-2210.0
Passenger (Fwd)	170.0	71.5	12155.0	2.60	442.0
Passenger (Fwd)	170.0	73.5	12495.0	18.10	3077.0
Critical Fuel	40.0	90.6	3624.0	0.00	0.0
	2143.0	100.2	214689.2	0.35	745.8

Most Aft C of G

Empty Weight	1593.0	109.2	173920.2	-0.35	-563.2
Pilot	170.0	73.5	12495.0	-13.00	-2210.0
Passenger (Aft)	170.0	105.0	17850.0	12.10	2057.0
Passenger (Aft)	170.0	105.0	17850.0	-12.10	-2057.0
Baggage under Seat	50.0	110.0	5500.0	0.00	0.0
	2153.0	105.7	227615.2	-1.29	-2773.2

The maintenance described above has been performed in accordance with airworthiness requirements. All configuration calculations have been reviewed for accuracy.

Signature & Licence # _____

AMO158-90

Rem starter cooling kit, inst GPS III & mount, rem extra encoder/interface

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Ammendment #8	1589.2	107.94	171534.8	-0.28	-451.4
Rem extra encoder listed	-0.6	53.0	-31.8	0.00	0.0
Rem Artex ELT	-4.2	40.0	-168.0	0.00	0.0
Rem encoder interface listed	-0.6	58.0	-34.8	0.00	0.0
Rem Trimble GPS listed	-2.7	40.7	-109.9	0.00	0.0
Rem Trimble GPS ANT listed	-0.2	142.0	-28.4	0.00	0.0
Rem GSHL GPS bracket listed	-0.8	44.7	-35.8	2.00	-1.6
Rem Starter Cooling kit listed	0.0	0.0	0.0	0.00	0.0
Inst Kannad 406 ELT	1.9	44.7	84.9	6.50	12.4
Inst Kannad 406 ELT ANT	0.4	82.5	33	-25.80	-10.3
Inst Garmin GPS III & Mount	2.0	50.0	100	2.00	4.0
New Empty Weight	1584.4	108.1	171244.1	-0.28	-451.0

Most Forward C of G

Empty Weight	1584.4	108.1	171244.1	-0.28	-451.0
Pilot	170.0	73.5	12495.0	-13.00	-2210.0
Passenger (Fwd)	170.0	71.5	12155.0	2.60	442.0
Passenger (Fwd)	170.0	73.5	12495.0	18.10	3077.0
Critical Fuel	40.0	90.6	3624.0	0.00	0.0
	2134.4	99.3	212013.1	0.40	858.0

Most Aft C of G

Empty Weight	1584.4	108.1	171244.1	-0.28	-451.0
Pilot	170.0	73.5	12495.0	-13.00	-2210.0
Passenger (Aft)	170.0	105.0	17850.0	12.10	2057.0
Passenger (Aft)	170.0	105.0	17850.0	-12.10	-2057.0
Baggage under Seat	50.0	110.0	5500.0	0.00	0.0
	2144.4	104.9	224939.1	-1.24	-2661.0

The maintenance described above has been performed in accordance with airworthiness requirements. All configuration calculations have been reviewed for accuracy.

Signature & Licence #

AMO158-90

AIRCRAFT CONFIGURATIONS

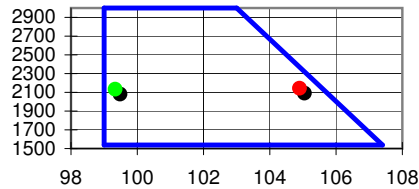
WEIGHT & BALANCE CONFIGURATION NO. 1

Selective Loading Required

Purpose: To Establish a Basic Aircraft Configuration
Refer to the Equipment List

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
New Empty Weight	1584.4	108.1	171244.1	-0.28	-451.0
Most Forward C of G	2134.4	99.3	212013.1	0.40	858.01
Most Aft C of G	2144.4	104.9	224939.1	-1.24	-2661.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 2

Selective Loading Required

Purpose: Addition of Inlet Diverter

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
New Empty Weight	1586.4	108.1	171429.7	-0.28	-451.0
Most Forward C of G	2136.4	99.3	212198.7	0.40	858.01
Most Aft C of G	2146.4	104.9	225124.7	-1.24	-2661.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 3

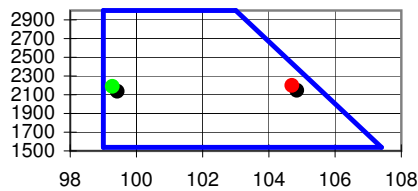
Purpose: Addition of Skyrotors Pods

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.00
Add Sky Pods	56.0	96.9	5426.4	0.00	0.00
New Empty Weight	1640.4	107.7	176670.5	-0.27	-451.0

Most Forward C of G	●	2190.4	99.3	217439.5	0.39	858.01
Most Aft C of G	●	2200.4	104.7	230365.5	-1.21	-2661.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 4

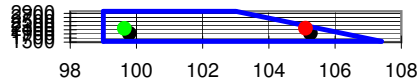
Selective Loading Required

Purpose: Addition of Fargo Aux Tank (Only)

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
Add Aux Tank	36.5	117.3	4282.9	0.00	0.0
New Empty Weight	1620.9	108.3	175527.0	-0.28	-451.0

Most Forward C of G	●	2170.9	99.6	216296.0	0.40	858.01
Most Aft C of G	●	2180.9	105.1	229222.0	-1.22	-2661.0

LONGITUDINAL C of G



99.6	2170.9
105.1	2180.9

WEIGHT & BALANCE CONFIGURATION NO. 5

Purpose: Addition of Viking Cargo Pod

Note: Selective Loading Required

Empty Weight as per W & B:

Amendment # 9

Add Viking Pod

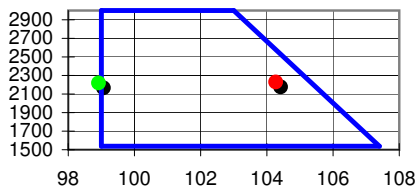
New Empty Weight

Most Forward C of G

Most Aft C of G

	Longitudinal				
	Weight	Arm	Moment	Lateral Arm	Lateral Moment
Amendment # 9	1584.4	108.08	171244.1	-0.28	-451.0
Add Viking Pod	85.0	98.9	8393.3	0.00	0.0
New Empty Weight	17837.4	107.1	178837.4	-0.27	-451.0
Most Forward C of G	2220.2	98.9	219606.4	0.39	858.01
Most Aft C of G	2230.2	104.3	232532.4	-1.19	-2661.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 6

Selective Loading Required

Purpose: Addition of Inlet Diverter & Sky Pods

Note: Selective Loading Required

Empty Weight as per W & B:

Amendment # 9

Add Inlet Diverter

Add Sky Pods

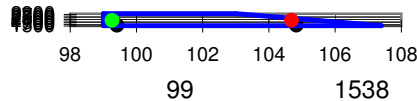
New Empty Weight

Most Forward C of G

Most Aft C of G

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Amendment # 9	1584.4	108.08	171244.1	-0.28	-451.0
Add Inlet Diverter	2.0	92.80	185.6	0.00	0.0
Add Sky Pods	56.0	96.90	5426.4	0.00	0.0
New Empty Weight	1642.4	107.7	176856.1	-0.27	-451.0
Most Forward C of G	2192.4	99.3	217625.1	0.39	858.01
Most Aft C of G	2202.4	104.7	230551.1	-1.21	-2661.0

LONGITUDINAL C of G



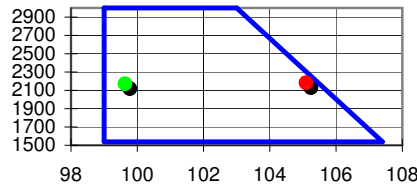
WEIGHT & BALANCE CONFIGURATION NO. 7

Selective Loading Required

Purpose: Addition of Inlet Diverter & Fargo Aux Tank

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0	
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0	
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0	
New Empty Weight	1622.9	108.3	175712.6	-0.28	-451.0	
Most Forward C of G	●	2172.9	99.6	216481.6	0.39	858.01
Most Aft C of G	●	2182.9	105.1	229407.6	-1.22	-2661.0

LONGITUDINAL C of G

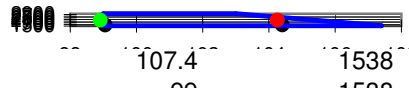


WEIGHT & BALANCE CONFIGURATION NO. 8

Purpose: Addition of Inlet Diverter & Viking Cargo Pod

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0	
Add Inlet Diverter	2.0	85.5	175.6	0.00	0.0	
Add Viking Cargo Pod	85.5	107.1	9177.7	0.00	0.0	
New Empty Weight	1771.9	107.1	179023.0	-0.27	-451.0	
Most Forward C of G	●	2222.2	98.9	219792.0	0.39	858.01
Most Aft C of G	●	2232.2	104.3	232718.0	-1.19	-2661.0

LONGITUDINAL C of G



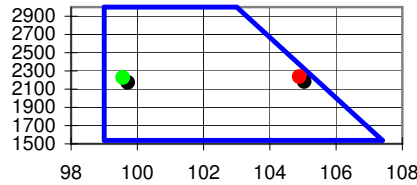
WEIGHT & BALANCE CONFIGURATION NO. 9

Selective Loading Required

Purpose: Addition of Inlet Diverter, Fargo Aux Tank & Sky Pods

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0	
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0	
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0	
Add Sky Pods	56.0	96.9	5426.4	0.00	0.0	
New Empty Weight	1678.9	107.9	181139.0	-0.27	-451.0	
Most Forward C of G	●	2228.9	99.6	221908.0	0.38	858.01
Most Aft C of G	●	2238.9	104.9	234834.0	-1.19	-2661.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 10

Purpose: Addition of Inlet Diverter, Fargo Tank & Viking Pod

Note: Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 9	1584.4	108.1	171244.1	0.00	-451.00	
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.00	
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.00	
Add Viking Cargo Pod	85.8	87.3	7393.3	0.00	0.00	
New Empty Weight	1810.7	107.3	183305.9	-0.26	-451.00	
Most Forward C of G	●	2258.7	99.2	224074.9	0.38	858.01
Most Aft C of G	●	2268.7	104.5	237000.9	-1.17	-2661.0

LONGITUDINAL C of G

99 3000

NIA TO THIS AIRCRAFT

WEIGHT & BALANCE CONFIGURATION NO. 11

Selective Loading Required

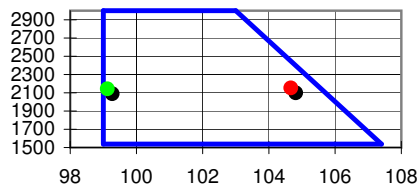
Purpose: **Addition of Dual Controls**

Note: Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:	1584.4	108.1	171244.1	-0.28	-451.0
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
New Empty Weight	1593.8	107.7	171723.5	-0.28	-451.0

Most Forward C of G	●	2143.8	99.1	212492.5	0.40	858.01
Most Aft C of G	●	2153.8	104.7	225418.5	-1.24	-2661.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 12

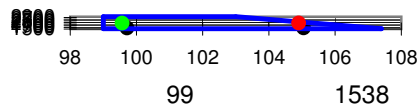
Selective Loading Required

Purpose: **Addition of Fargo Aux Tank & Sky Pods**

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:	1584.4	108.1	171244.1	-0.28	-451.0
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0
Add Sky Pods	56.0	96.9	5426.4	0.00	0.0
New Empty Weight	1676.9	107.9	180953.4	-0.27	-451.0

Most Forward C of G	●	2226.9	99.6	221722.4	0.39	858.01
Most Aft C of G	●	2236.9	104.9	234648.4	-1.19	-2661.0

LONGITUDINAL C of G

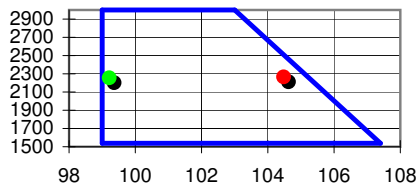


WEIGHT & BALANCE CONFIGURATION NO. 13

Purpose: Addition of Fargo Aux Tank & Viking Cargo Pod

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.00
Add Viking Cargo Pod	85.8	85.8	7553.3	0.00	0.00
New Empty Weight	1706.7	107.3	183120.3	-0.26	-451.00
Most Forward C of G	2256.7	99.2	223889.3	0.38	858.01
Most Aft C of G	2266.7	104.5	236815.3	-1.17	-2661.0

LONGITUDINAL C of G



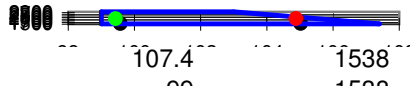
WEIGHT & BALANCE CONFIGURATION NO. 14

Purpose: Addition of Dual Controls & Fargo Aux Tank

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0
New Empty Weight	1630.3	108.0	176006.4	-0.28	-451.0
Most Forward C of G	2180.3	99.4	216775.4	0.39	858.01
Most Aft C of G	2190.3	104.9	229701.4	-1.21	-2661.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 15

Selective Loading Required

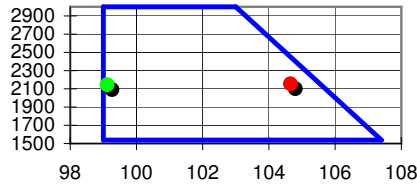
Purpose: **Addition of Dual Controls & Inlet Diverter**

Note: Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:	1584.4	108.1	171244.1	-0.28	-451.0
Amendment # 9					
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
New Empty Weight	1595.8	107.7	171909.1	-0.28	-451.0

Most Forward C of G	●	2145.8	99.1	212678.1	0.40	858.01
Most Aft C of G	●	2155.8	104.6	225604.1	-1.23	-2661.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 16

Selective Loading Required

Purpose: **Addition of Dual Controls, Fargo Tank & Inlet Diverter**

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:	1584.4	108.1	171244.1	-0.28	-451.0
Amendment # 9					
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
New Empty Weight	1632.3	107.9	176192.0	-0.28	-451.0

Most Forward C of G	●	2182.3	99.4	216961.0	0.39	858.01
Most Aft C of G	●	2192.3	104.9	229887.0	-1.21	-2661.0
		99	1000			
		99	3000			

WEIGHT & BALANCE CONFIGURATION NO. 17

Selective Loading Required

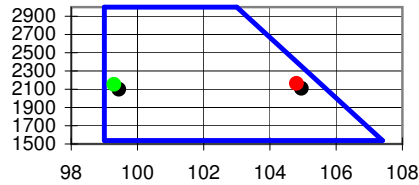
Purpose: **Addition of Dynaflight System**
LSTC # C-LSH01-132/D

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0
Add Dynavix	2.0	46.8	93.6	-21.00	-42.0
Add Collective Switch Box	1.0	58.6	58.6	-21.00	-21.0
Add GPS Antenna	2.0	32.0	64.0	8.50	17.0
New Empty Weight	1604.4	107.9	173134.3	-0.31	-497.0

Most Forward C of G	●	2154.4	99.3	213903.3	0.38	812.01
Most Aft C of G	●	2164.4	104.8	226829.3	-1.25	-2707.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 18

Selective Loading Required

Purpose: **Addition of Dynaflight System and Inlet Diverter**
LSTC # C-LSH01-132/D

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0
Add Dynavix	2.0	46.8	93.6	-21.00	-42.0
Add Collective Switch Box	1.0	58.6	58.6	-21.00	-21.0
Add GPS Antenna	2.0	32.0	64.0	8.50	17.0
New Empty Weight	1600.4	107.9	173134.3	-0.31	-497.0

WEIGHT & BALANCE CONFIGURATION NO. 19

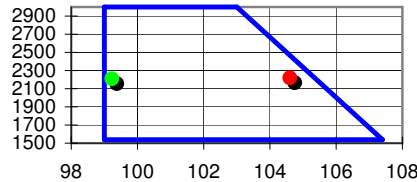
Selective Loading Required

Purpose: **Addition of Dynaflight System and Skyrotor Pods**
LSTC # C-LSH01-132/D

Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0	
Add Sky Pods	56.0	96.90	5426.4	0.00	0.0	
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0	
Add Dynavix	2.0	46.8	93.6	-21.00	-42.0	
Add Collective Switch Box	1.0	58.6	58.6	-21.00	-21.0	
Add GPS Antenna	2.0	32.0	64.0	8.50	17.0	
New Empty Weight	1660.4	107.5	178560.7	-0.30	-497.0	
Most Forward C of G	●	2210.4	99.2	219329.7	0.37	812.01
Most Aft C of G	●	2220.4	104.6	232255.7	-1.22	-2707.0

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 20

Selective Loading Required

Purpose: **Addition of Dynaflight System, Inlet Diverter and Skyrotor Pods**
LSTC # C-LSH01-132/D

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 9	1584.4	108.1	171244.1	-0.28	-451.0
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Sky Pods	56.0	96.90	5426.4	0.00	0.0
Add Dynabyte	15.0	111.6	1674.0	0.00	0.0
Add Dynavix	2.0	46.8	93.6	-21.00	-42.0
Add Collective Switch Box	1.0	58.6	58.6	-21.00	-21.0

