

WEIGHT & BALANCE REPORT

Original as Weighed on: 15-Mar-04

Registration: C-FGHS
 Manufacturer: MD HELICOPTERS INC.
 Model: 500D
 Serial No: 1098D

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
735.0	0.0	735.0	96.9	71221.5
691.0	0.0	691.0	96.9	66957.9
200.0	0.0	200.0	197.2	39440.0
1626.0			109.2	177619.4

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1626.0	109.2	177619.4	-0.32	-1126.4
Empty Weight & C of G	1626.0	109.2	177619.4	-0.69	-1126.4

Most Forward C of G

Empty Weight	1626.0	109.2	177619.4	-0.69	-1126.4
Pilot	200.0	73.5	14700.0	-13.00	-2600.0
Passenger (Fwd)	200.0	71.5	14300.0	2.60	520.0
Passenger (Fwd)	200.0	73.5	14700.0	18.10	3620.0
Critical Fuel	40.0	90.6	3624.0	0.00	0.0
	2266.0	99.3	224943.4	0.18	413.6

Most Aft C of G

Empty Weight	1626.0	109.2	177619.4	-0.69	-1126.4
Pilot	200.0	73.5	14700.0	-13.00	-2600.0
Passenger (Aft)	200.0	105.0	21000.0	12.10	2420.0
Passenger (Aft)	200.0	105.0	21000.0	-12.10	-2420.0
Baggage under Seat	20.0	110.0	2200.0	0.00	0.0
	2246.0	105.3	236519.4	-1.66	-3726.4

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

Signature & Licence #

AMO158-90

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1626.0	109.2	177619.4	-0.69	-1126.4
0	0.0	0.0	0.0	0.00	0.0
New Empty Weight	1626.0	109.2	177619.4	-0.69	-1126.4

Most Forward C of G

Empty Weight	1626.0	109.2	177619.4	-0.69	-1126.4
Pilot	200.0	73.5	14700.0	-13.00	-2600.0
Passenger (Fwd)	200.0	71.5	14300.0	2.60	520.0
Passenger (Fwd)	200.0	73.5	14700.0	18.10	3620.0
Critical Fuel	40.0	90.6	3624.0	0.00	0.0
	2266.0	99.3	224943.4	0.18	413.6

Most Aft C of G

Empty Weight	1626.0	109.2	177619.4	-0.69	-1126.4
Pilot	200.0	73.5	14700.0	-13.00	-2600.0
Passenger (Aft)	200.0	105.0	21000.0	12.10	2420.0
Passenger (Aft)	200.0	105.0	21000.0	-12.10	-2420.0
Baggage under Seat	15.0	110.0	1650.0	0.00	0.0
	2241.0	105.3	235969.4	-1.66	-3726.4

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

Signature & Licence # _____ AMO158-90

WEIGHT & BALANCE CONFIGURATION NO. 1

Purpose: To Establish a Basic Aircraft Configuration

Refer to the Equipment List

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1626.0	109.2	177619.4	-0.69	-1126.4
New Empty Weight	1626.0	109.2	177619.4	-0.69	-1126.4

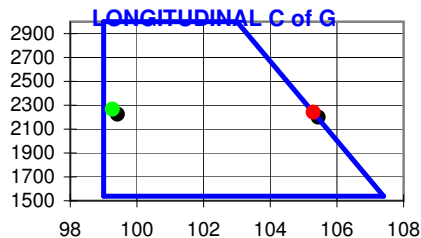
Most Forward C of G	2266.0	99.3	224943.4	0.18	413.6
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Purpose: Addition of Inlet Diverter

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Original	1626.0	109.2	177619.4	-0.69	-1126.4
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
New Empty Weight	1628.0	109.2	177805.0	-0.69	-1126.4

Most Forward C of G	●	2268.0	99.3	225129.0	0.08	182.60
Most Aft C of G	●	2243.0	105.3	236155.0	-1.49	-3336.4



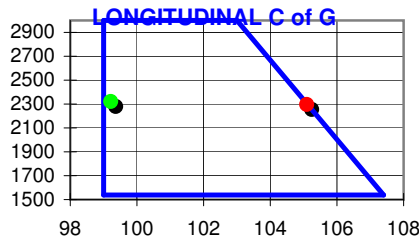
WEIGHT & BALANCE CONFIGURATION NO. 3

Purpose: Addition of Skyrotors Pods

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1626.0	109.2	177619.4	-0.69	-1126.40
Add Sky Pods	56.0	96.9	5426.4	0.00	0.00
New Empty Weight	1682.0	108.8	183045.8	-0.67	-1126.4

Most Forward C of G	●	2322.0	99.2	230369.8	0.08	182.60
Most Aft C of G	●	2297.0	105.1	241395.8	-1.45	-3336.4



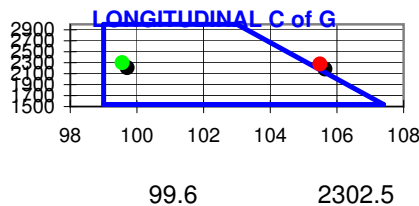
WEIGHT & BALANCE CONFIGURATION NO. 4

Purpose: Addition of Fargo Aux Tank (Only)

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1626.0	109.2	177619.4	-0.69	-1126.4
Add Aux Tank	36.5	117.3	4282.9	0.00	0.0
New Empty Weight	1662.5	109.4	181902.3	-0.68	-1126.4

Most Forward C of G	●	2302.5	99.6	229226.3	0.08	182.60
Most Aft C of G	●	2277.5	105.5	240252.3	-1.46	-3336.4



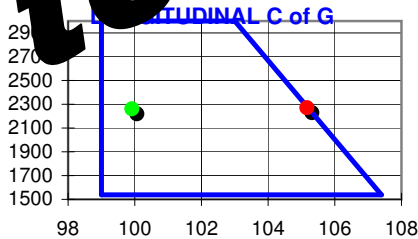
WEIGHT & BALANCE CONFIGURATION NO. 5

Purpose: Addition of Viking Cargo Pod

Selective Loading Required

	Weight	Longitudinal Arm	Moment	Lateral Arm	Moment
Original	1626.0	109.2	177619.4	-0.69	-1126.4
Add Viking Pod	85.8	96.5	81593.3	0.00	0.0
New Empty Weight	1711.8	108.2	185212.7	-0.66	-1126.4
Most Forward C of G	2231.8	99.9	225981.7	0.08	182.60
Most Aft C of G	2244.8	105.2	238907.7	-1.47	-3336.4

NIA to Aircraft

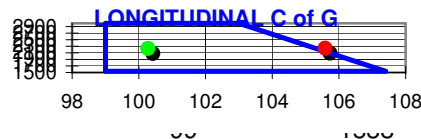


WEIGHT & BALANCE CONFIGURATION NO. 6

Purpose: Addition of Inlet Diverter & Sky Pods

Selective Loading Required

	Weight	Longitudinal Arm	Moment	Lateral Arm	Moment
Empty Weight as per W & B:					
New Empty Weight	1626.0	109.24	177619.4	-0.69	-1126.4
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	1684.0	108.8	183231.4	-0.67	-1126.4
Most Forward C of G	2234.0	100.3	224000.4	0.08	182.60
Most Aft C of G	2244.0	105.6	236926.4	-1.49	-3336.4

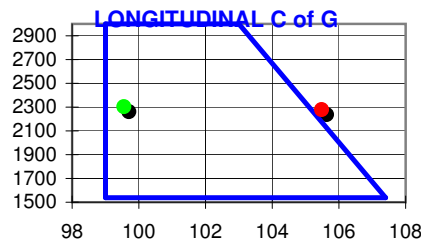


WEIGHT & BALANCE CONFIGURATION NO. 7

Purpose: Addition of Inlet Diverter & Fargo Aux Tank

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1626.0	109.2	177619.4	-0.69	-1126.4
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	1664.5	109.4	182087.9	-0.68	-1126.4
Most Forward C of G	2304.5	99.5	229411.9	0.08	182.60
Most Aft C of G	2279.5	105.5	240437.9	-1.46	-3336.4

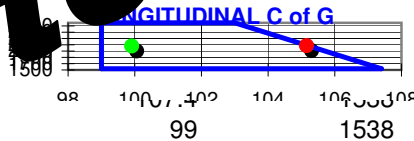


WEIGHT & BALANCE CONFIGURATION NO. 8

Purpose: Addition of Inlet Diverter & Viking Cargo Pod

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Empty Weight	1626.0	109.2	177619.4	-0.69	-1126.4
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Viking Cargo Pod	85.8	88.1	7593.3	0.00	0.0
New Empty Weight	1713.8	108.2	185398.3	-0.66	-1126.4
Most Forward C of G	2263.8	99.9	226167.3	0.08	182.60
Most Aft C of G	2273.8	105.2	239093.3	-1.47	-3336.4



NIA to Aircraft

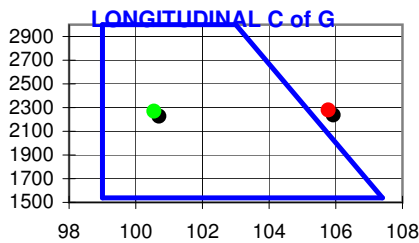
WEIGHT & BALANCE CONFIGURATION NO. 9

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:	1626.0	109.2	177619.4	-0.69	-1126.4
Most Aft C of G					
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	1720.5	109.0	187514.3	-0.65	-1126.4

Most Forward C of G	●	2270.5	100.5	228283.3	0.08	182.60
Most Aft C of G	●	2280.5	105.8	241209.3	-1.46	-3336.4



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:	1626.0	109.2	177619.4	-0.69	-1126.40
Pilot					
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	88.3	7593.3	0.00	0.00
New Empty Weight	1750.3	109.4	189681.2	-0.64	-1126.40

Most Forward C of G	●	23045.3	100.2	230450.2	0.08	182.60
Most Aft C of G	●	243376.2	105.3	243376.2	-1.44	-3336.4

NIA to Aircraft

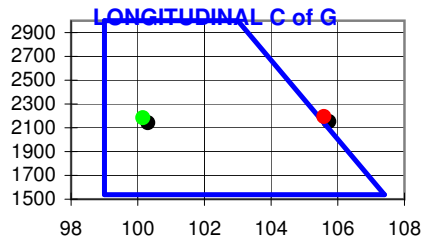
WEIGHT & BALANCE CONFIGURATION NO. 11

Purpose: Addition of Dual Controls

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Pilot	1626.0	109.2	177619.4	-0.69	-1126.4
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
New Empty Weight	1635.4	108.9	178098.8	-0.69	-1126.4

Most Forward C of G	●	2185.4	100.1	218867.8	0.08	182.60
Most Aft C of G	●	2195.4	105.6	231793.8	-1.52	-3336.4



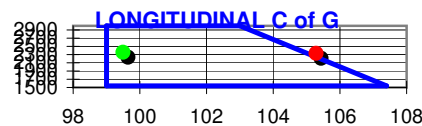
WEIGHT & BALANCE CONFIGURATION NO. 12

Purpose: Addition of Fargo Aux Tank & Sky Pods

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1626.0	109.2	177619.4	-0.69	-1126.4
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	1718.5	109.0	187328.7	-0.66	-1126.4

Most Forward C of G	●	2358.5	99.5	234652.7	0.08	182.60
Most Aft C of G	●	2333.5	105.3	245678.7	-1.43	-3336.4

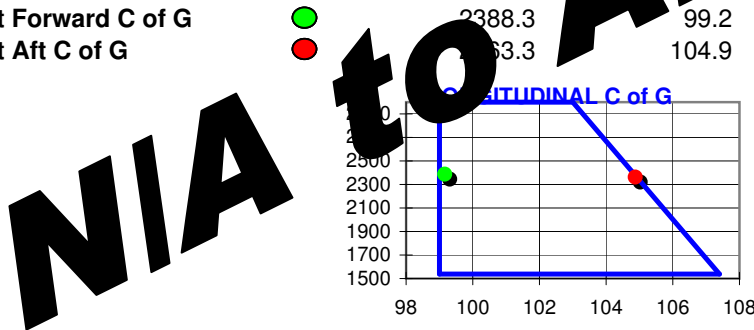


WEIGHT & BALANCE CONFIGURATION NO. 13

Purpose: Addition of Fargo Aux Tank & Viking Cargo Pod

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Original	1626.0	109.2	177619.4	-0.69	-1126.40
Add Fargo Aux Tank	36.5	117.3	4282.9	0.00	0.00
Add Viking Cargo Pod	85.8	88.5	7593.3	0.00	0.00
New Empty Weight	1748.3	111.4	189495.6	-0.64	-1126.40
Most Forward C of G	2388.3	99.2	236819.6	0.08	182.60
Most Aft C of G	2533.3	104.9	247845.6	-1.41	-3336.4

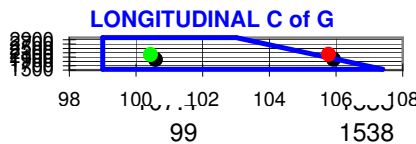


WEIGHT & BALANCE CONFIGURATION NO. 14

Purpose: Addition of Dual Controls & Fargo Aux Tank

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Passenger (Aft)	1626.0	109.2	177619.4	-0.69	-1126.4
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	1671.9	109.1	182381.7	-0.67	-1126.4
Most Forward C of G	2221.9	100.4	223150.7	0.08	182.60
Most Aft C of G	2231.9	105.8	236076.7	-1.49	-3336.4

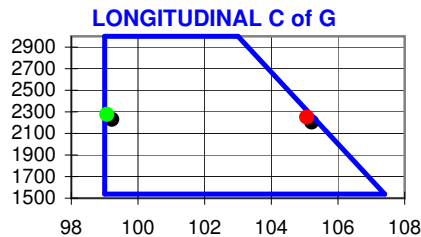


WEIGHT & BALANCE CONFIGURATION NO. 15

Purpose: Addition of Dual Controls & Inlet Diverter

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Original	1626.0	109.2	177619.4	-0.69	-1126.4	
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	1637.4	108.9	178284.4	-0.69	-1126.4	
Most Forward C of G	●	2277.4	99.1	225608.4	0.08	182.60
Most Aft C of G	●	2252.4	105.1	236634.4	-1.48	-3336.4



WEIGHT & BALANCE CONFIGURATION NO. 16

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

Selective Loading Required

Empty Weight as per W & B:	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Original	1626.0	109.2	177619.4	-0.69	-1126.4	
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	1673.9	109.1	182567.3	-0.67	-1126.4	
Most Forward C of G	●	2313.9	99.4	229891.3	0.08	182.60
Most Aft C of G	●	2288.9	105.3	240917.3	-1.46	-3336.4



WEIGHT & BALANCE CONFIGURATION NO. 17

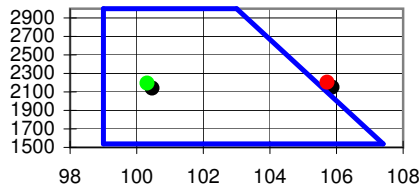
Selective Loading Required

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:					
Original	1626.0	109.2	177619.4	-0.69	-1126.4
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	1646.0	109.1	179509.6	-0.71	-1172.4
Most Forward C of G ●	2196.0	100.3	220278.6	0.06	136.60
Most Aft C of G ●	2206.0	105.7	233204.6	-1.53	-3382.4

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:					
Original	1626.0	109.2	177619.4	-0.69	-1126.4
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	1648.0	109.0	179695.2	-0.71	-1172.4

WEIGHT & BALANCE CONFIGURATION NO. 19

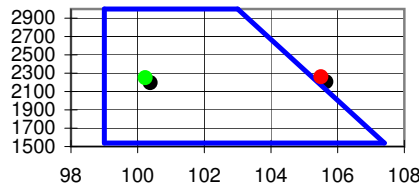
Selective Loading Required

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:					
Original	1626.0	109.2	177619.4	-0.69	-1126.4
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	1702.0	108.7	184936.0	-0.69	-1172.4
Most Forward C of G	●	2252.0	100.2	225705.0	0.06
Most Aft C of G	●	2262.0	105.5	238631.0	-1.50

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:					
Original	1626.0	109.2	177619.4	-0.69	-1126.4
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
Add GPS Antenna	2.0	32.0	64.0	8.50	17.0

