

WEIGHT & BALANCE REPORT

Original as Weighed on: 20-Jan-98

Registration: C-GVZD
 Manufacturer: MD HELICOPTERS INC.
 Model: 500D
 Serial No: 1070209D

Scales P/N: 3-0057-BA-3C
 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
718.0	0.0	718.0	96.9	69574.2
716.0	0.0	716.0	96.9	69380.4
206.0	0.0	206.0	197.2	40623.2
		1640.0	109.5	179577.8

Empty Weight & C of G

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
	1640.0	109.5	179577.8	-0.03	-51.2

Most Forward C of G

Empty Weight	1640.0	109.5	179577.8	-0.03	-51.2
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
	2280.0	99.5	226901.8	0.65	1488.8

Most Aft C of G

Empty Weight	1640.0	109.5	179577.8	-0.03	-51.2
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	30.0	110.0	3300.0	0.00	0.0
	2270.0	105.5	239577.8	-1.17	-2651.2

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

Amendment # 7

Date: 25-Mar-09

Registration: **C-GVZD**
 Manufacturer: Hughes
 Model: 500D
 Serial No: 1070209D

**Purpose: Removal of Artex ELT/ANT
 Instn of Kannad 406 ELT/ANT**

Empty Weight as per W & B:	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Amendment #6	1631.87	110.4	180106.6	0.01	13.73
Remove Artex ELT	-4.20	38.7	-162.3	6.50	-27.30
Install KANNAD 406 ELT	1.87	44.7	83.5	6.50	12.16
Remove ELT Antenna	-0.09	82.5	-7.4	-25.75	2.32
Install KANNAD ELT Antenna	0.38	82.5	30.9	-25.75	-9.66
New Empty Weight	1629.8	110.5	180051.3	-0.01	-8.8

Most Forward C of G

Empty Weight	1629.8	110.5	180051.3	-0.01	-8.8
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
	2269.8	100.2	227375.3	0.67	1531.2

Most Aft C of G

Empty Weight	1629.8	110.5	180051.3	-0.01	-8.8
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	30.0	110.0	3300.0	0.00	0.0
	2259.8	106.2	240051.3	-1.15	-2608.8

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

AIRCRAFT CONFIGURATIONS

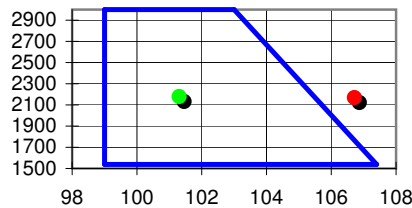
WEIGHT & BALANCE CONFIGURATION NO. 1

Purpose: To Establish a Basic Aircraft Configuration

Refer to the Equipment List
Selective Loading Required

Empty Weight as per W & B: Amendment # 7	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
New Empty Weight	1629.8	110.5	180051.3	-0.01	-8.8
Most Forward C of G	2179.8	101.3	220820.3	0.60	1300.24
Most Aft C of G	2169.8	106.7	231546.3	-1.02	-2218.8

LONGITUDINAL C of G



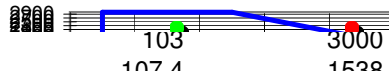
WEIGHT & BALANCE CONFIGURATION NO. 2

Purpose: Addition of Inlet Diverter

Selective Loading Required

Empty Weight as per W & B: Amendment # 7	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
New Empty Weight	1631.8	110.5	180236.9	-0.01	-8.8
Most Forward C of G	2181.8	101.3	221005.9	0.60	1300.24
Most Aft C of G	2171.8	106.7	231731.9	-1.02	-2218.8

LONGITUDINAL C of G



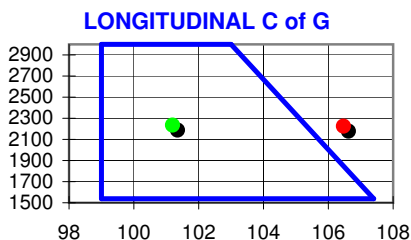
WEIGHT & BALANCE CONFIGURATION NO. 3

Purpose: Addition of Skyrotors Pods

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.76
Add Sky Pods	56.0	96.9	5426.4	0.00	0.00
New Empty Weight	1685.8	110.0	185477.7	-0.01	-8.8

Most Forward C of G	●	2235.8	101.2	226246.7	0.58	1300.24
Most Aft C of G	●	2225.8	106.5	236972.7	-1.00	-2218.8



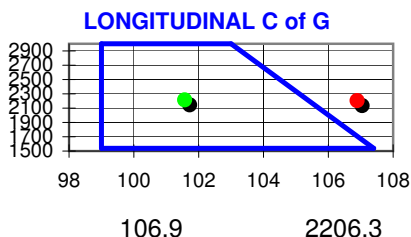
WEIGHT & BALANCE CONFIGURATION NO. 4

Purpose: Addition of Fargo Aux Tank (Only)

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8
Add Aux Tank	36.5	117.3	4282.9	0.00	0.0
New Empty Weight	1666.3	110.6	184334.2	-0.01	-8.8

Most Forward C of G	●	2216.3	101.6	225103.2	0.59	1300.24
Most Aft C of G	●	2206.3	106.9	235829.2	-1.01	-2218.8



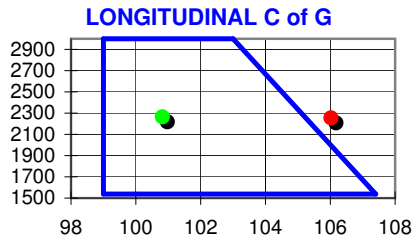
WEIGHT & BALANCE CONFIGURATION NO. 5

Purpose: Addition of Viking Cargo Pod

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8
Add Viking Pod	85.8	88.5	7593.3	0.00	0.0
New Empty Weight	1715.6	109.4	187644.6	-0.01	-8.8

Most Forward C of G	●	2265.6	100.8	228413.6	0.57	1300.24
Most Aft C of G	●	2255.6	106.0	239139.6	-0.98	-2218.8



WEIGHT & BALANCE CONFIGURATION NO. 6

Purpose: Addition of Inlet Diverter & Sky Pods

Selective Loading Required

	Weight	Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.47	180051.3	-0.01	-8.8
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	1687.8	110.0	185663.3	-0.01	-8.8

Most Forward C of G	●	2237.8	101.2	226432.3	0.58	1300.24
Most Aft C of G	●	2227.8	106.5	237158.3	-1.00	-2218.8



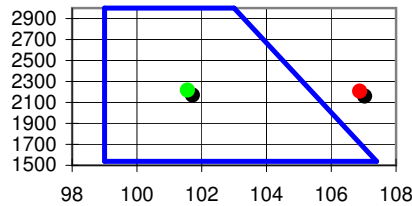
WEIGHT & BALANCE CONFIGURATION NO. 7

Purpose: Addition of Inlet Diverter & Fargo Aux Tank

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8
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	1668.3	110.6	184519.8	-0.01	-8.8
Most Forward C of G	2218.3	101.6	225288.8	0.59	1300.24
Most Aft C of G	2208.3	106.9	236014.8	-1.00	-2218.8

LONGITUDINAL C of G



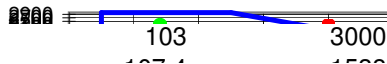
WEIGHT & BALANCE CONFIGURATION NO. 8

Purpose: Addition of Inlet Diverter & Viking Cargo Pod

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Viking Cargo Pod	85.8	88.5	7593.3	0.00	0.0
New Empty Weight	1717.6	109.4	187830.2	-0.01	-8.8
Most Forward C of G	2267.6	100.8	228599.2	0.57	1300.24
Most Aft C of G	2257.6	106.0	239325.2	-0.98	-2218.8

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 9

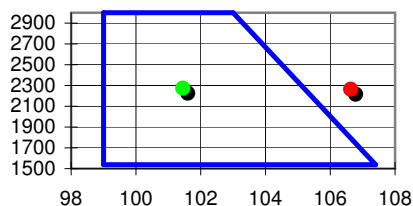
Purpose: Addition of Inlet Diverter, Fargo Aux Tank & Sky Pods

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:	1629.8	110.5	180051.3	-0.01	-8.8
Amendment # 7					
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	1724.3	110.2	189946.2	-0.01	-8.8

Most Forward C of G	●	2274.3	101.4	230715.2	0.57	1300.24
Most Aft C of G	●	2264.3	106.6	241441.2	-0.98	-2218.8

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 10

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

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:	1629.8	110.5	180051.3	-0.01	-8.76
Amendment # 7					
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	88.5	7593.3	0.00	0.00
New Empty Weight	1754.1	109.5	192113.1	0.00	-8.76

Most Forward C of G	●	2304.1	101.1	232882.1	0.56	1300.24
Most Aft C of G	●	2294.1	106.2	243608.1	-0.97	-2218.8
		99	1538			

WEIGHT & BALANCE CONFIGURATION NO. 11

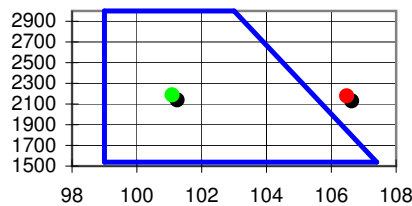
Purpose: Addition of Dual Controls

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8
Add Dual Controls	9.4	51.0	479.4	0.00	0.0
New Empty Weight	1639.2	110.1	180530.7	-0.01	-8.8

Most Forward C of G	●	2189.2	101.1	221299.7	0.59	1300.24
Most Aft C of G	●	2179.2	106.5	232025.7	-1.02	-2218.8

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 12

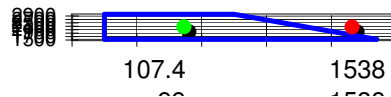
Purpose: Addition of Fargo Aux Tank & Sky Pods

Selective Loading Required

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8
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	1722.3	110.2	189760.6	-0.01	-8.8

Most Forward C of G	●	2272.3	101.5	230529.6	0.57	1300.24
Most Aft C of G	●	2262.3	106.6	241255.6	-0.98	-2218.8

LONGITUDINAL C of G



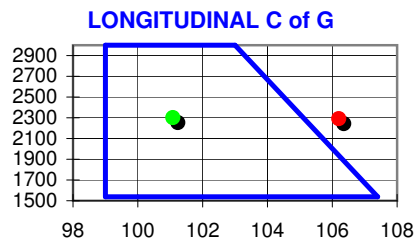
WEIGHT & BALANCE CONFIGURATION NO. 13

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:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.76
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	1752.1	109.5	191927.5	0.00	-8.76

Most Forward C of G	●	2302.1	101.1	232696.5	0.56	1300.24
Most Aft C of G	●	2292.1	106.2	243422.5	-0.97	-2218.8



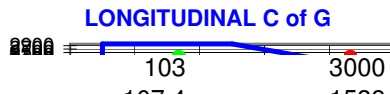
WEIGHT & BALANCE CONFIGURATION NO. 14

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 # 7	1629.8	110.5	180051.3	-0.01	-8.8
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	1675.7	110.3	184813.6	-0.01	-8.8

Most Forward C of G	●	2225.7	101.4	225582.6	0.58	1300.24
Most Aft C of G	●	2215.7	106.7	236308.6	-1.00	-2218.8



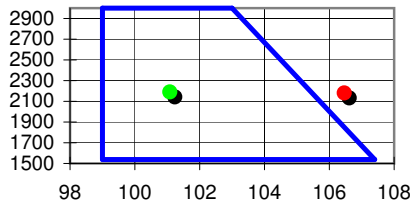
WEIGHT & BALANCE CONFIGURATION NO. 15

Purpose: Addition of Dual Controls & Inlet Diverter

Selective Loading Required

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8	
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	1641.2	110.1	180716.3	-0.01	-8.8	
Most Forward C of G	●	2191.2	101.1	221485.3	0.59	1300.24
Most Aft C of G	●	2181.2	106.5	232211.3	-1.02	-2218.8

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 16

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:						
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8	
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	1677.7	110.3	184999.2	-0.01	-8.8	
Most Forward C of G	●	2227.7	101.3	225768.2	0.58	1300.24
Most Aft C of G	●	2217.7	106.6	236494.2	-1.00	-2218.8
		99	1538			

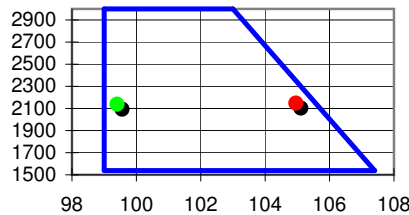
WEIGHT & BALANCE CONFIGURATION NO. 17

Selective Loading Required

Purpose: Addition of Dyna Nav System

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8	
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	1649.8	110.3	181941.5	-0.03	-54.8	
Most Forward C of G	●	2199.8	101.2	222710.5	0.57	1254.24
Most Aft C of G	●	2209.8	106.6	235636.5	-1.02	-2264.8

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 18

Selective Loading Required

Purpose: Addition of Dyna Nav System, and Inlet Diverter

	Longitudinal			Lateral		
	Weight	Arm	Moment	Arm	Moment	
Empty Weight as per W & B:						
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8	
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	1651.8	110.3	182127.1	-0.03	-54.8	
Most Forward C of G	●	2201.8	101.2	222896.1	0.57	1254.24
Most Aft C of G	●	2211.8	106.6	235822.1	-1.02	-2264.8

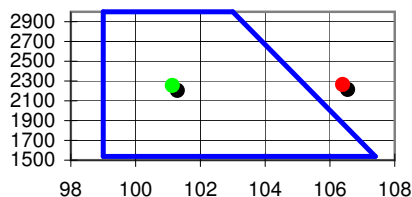
WEIGHT & BALANCE CONFIGURATION NO. 19

Selective Loading Required

Purpose: **Addition of Dyna Nav System, and Sky Pods**

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8
Add Sky Pods	56.0	96.9	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	1705.8	109.8	187367.9	-0.03	-54.8
Most Forward C of G	● 2255.8	101.1	228136.9	0.56	1254.24
Most Aft C of G	● 2265.8	106.4	241062.9	-1.00	-2264.8

LONGITUDINAL C of G



WEIGHT & BALANCE CONFIGURATION NO. 20

Selective Loading Required

Purpose: **Addition of Sky Pods, Inlet Diverter, and Dyna Nav System**

	Longitudinal			Lateral	
	Weight	Arm	Moment	Arm	Moment
Empty Weight as per W & B:					
Amendment # 7	1629.8	110.5	180051.3	-0.01	-8.8
Add Inlet Diverter	2.0	92.8	185.6	0.00	0.0
Add Sky Pods	56.0	96.9	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