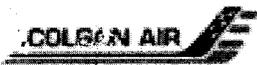


Attachment 4  
Weight and Balance  
Summary



## Q400 AIRCRAFT RECORD OF WEIGHING

N: 200WQ	AIRCRAFT SERIAL NUMBER: 4200	DATE: 04/16/08			
PREPARED BY: Colgan Air	CERTIFICATE NUMBER: NSVA519S				
REACTION WHEEL OR JACK POINTS	+ SCALE READING	- TARE	(=) +/- NET WEIGHT	(X) STATION ARM	(=) MOMENT
LEFT MAIN		0.0	0.0		
RIGHT MAIN		0.0	0.0		
SUB TOTAL			0.0		0.0
NOSE		0.0	0.0	-39.7	0.0
TOTAL (AS WEIGHED)			0.0		0.0
MISC.	These numbers taken from log book entry dated 04/07/08 from results of actual weighing.		38219.0	395.1	15099940.0
EMPTY WEIGHT			38219.0	395.1	15099940.0
PILOTS, FA, GALLEY EQUIP. & SUPPLIES AFT LAV			1440.0	304.4	438298.0
UNUSABLE FUEL	(UNUSABLE FUEL WAS INCLUDED WHEN WEIGHED 03/07/08)			398.6	0.0
BASIC OPERATING WEIGHT	(INCLUDING FULL OIL AND FUEL)		39659.0	391.8	15538238.0
100 + (BOW x (BOW Arm - 400))		=	67.5		INDEX
10,000					
Weight and Balance performed by:			<div style="border: 1px solid black; width: 200px; height: 20px; background-color: black; margin: 0 auto;"></div> Inspector		
This revised basic operating weight, moment and index has been received by Dispatch:			<i>See Supplement dated 4/17/08</i> Dispatch		
Reviewed by the Manager of Quality Control:			<div style="border: 1px solid black; width: 200px; height: 20px; background-color: black; margin: 0 auto;"></div> Manager of Quality Control		



## Q400 - SUPPLEMENTAL AIRCRAFT WEIGHT AND BALANCE

N: 200WQ	SERIAL No.: 4200	AIRCRAFT TYPE: Q400	
DATE: 04/17/08	PREPARED BY: Colgan Air Inc.	CERT#: NSVA519S	
	+- NET WEIGHT	(X) +-ARM	(=) +- MOMENT
CURRENT BASIC OPERATING WEIGHT	39659.0	391.8	15538238.0
ADJUSTMENTS:			
Install Folding Wheelchair (fwd LH wardrobe)	23.0	-12.0	-276.0
Install Infection Control Kit (aft LH ovhd bin)	1.0	649.8	649.8
Install Spare Pax Life Vests (aft LH ovhd bin)	9.5	649.8	6173.1
Install AED (aft RH ovhd bin)	6.6	649.8	4288.7
Install EEMK (aft RH ovhd bin)	6.2	649.8	4028.8
Install Additional Oxygen Bottle (fwd LH ovhd bin)	9.5	51.6	490.2
Install Additional Oxygen Bottle (aft LH ovhd bin)	9.4	649.8	6108.1
Install Additional Oxygen Bottle (aft RH ovhd bin)	9.4	649.8	6108.1
Install Fly Away Kit (aft cargo bin)	30.3	807.0	24452.1
Operations Manuals (flight deck box)	15.5	-49.5	-767.3
Install F/A Demo Kit (fwd LH ovhd bin)	2.0	51.6	103.2
Install F/A Demo Kit (aft LH ovhd bin)	2.0	649.8	1299.6
Install Manual Stowage Box (Flight Deck)	8.7	-49.5	-430.7
			0.0
NEW BASIC OPERATING WEIGHT	39792.1	391.8	15590465.8
$100 + \frac{(BOW \times (BOW_{Arm} - 400))}{10,000} =$		67.4	INDEX
Weight and Balance performed by:	Inspector		
This revised basic operating weight, moment and index has been received by Dispatch:	Dispatch		
Reviewed by the Manager of Quality Control:	Manager of Quality Control		

Superseded  
11/6/08

## Q400 - SUPPLEMENTAL AIRCRAFT WEIGHT AND BALANCE

N: 200WQ	SERIAL No.: 4200	AIRCRAFT TYPE: Q400	
DATE: 11/06/08	PREPARED BY: Colgan Air	CERT#: NSVA519S	
		+- NET WEIGHT	(X) +-ARM
			(=) +- MOMENT
CURRENT BASIC OPERATING WEIGHT		39792.1	391.8
ADJUSTMENTS:			
Fly Away Kit - AFT Baggage Comp (Removal)		-30.3	807.0
Fly Away Kit - FWD Baggage Comp (Install)		30.3	35.0
			-24452.1
			0.0
			1060.5
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
NEW BASIC OPERATING WEIGHT		39792.1	391.2
$100 + \frac{(BOW \times (BOW \text{ Arm} - 400))}{10,000} =$		65.0	INDEX
Weight and Balance performed by:		<div style="border: 1px solid black; background-color: black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Inspector	
This revised basic operating weight, moment and index has been received by Dispatch:		<div style="border: 1px solid black; background-color: black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Dispatch <i>11/06/08</i>	
Reviewed by the Manager of Quality Control:		<div style="border: 1px solid black; background-color: black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Manager of Quality Control	

Superseded 11/21/08

### Q400 - SUPPLEMENTAL AIRCRAFT WEIGHT AND BALANCE

MODEL No.: 200WQ	SERIAL No.: 4200	AIRCRAFT TYPE: Q400	
DATE: 11/21/08	PREPARED BY: Colgan Air	CERT#: NSVA519S	
	+- NET WEIGHT	(X) +-ARM	(=) +- MOMENT
CURRENT BASIC OPERATING WEIGHT	39792.1	391.2	15567074.2
ADJUSTMENTS:			
ModSum 4-45 7865, Retrofit W/ Spectrum 984 Pax seats	100.35	387.03	38838.5
Wheelchair (Remove from Wardrobe)	-23.00	-12.00	276.0
Wheelchair (Install in LH Fwd overhead bin w/ straps)	23.40	51.60	1207.4
Removal of Wardrobe lower shelf	-2.30	-12.00	27.6
Remove 3 spare adult/child life vests from Aft overhead bin	-4.40	649.80	-2859.1
Remove 1 Derno life vest from F/A demo kt, LH Fwd O/H bin	-1.00	51.60	-51.6
Remove 1 Derno life vest from F/A demo kt, LH Aft O/H bin	-1.00	649.80	-649.8
Adjustments to crew bag wts & location change			0.0
Ref ops letter dated Sept 12, 2008 (rev 2).			0.0
Remove 4 crew bags @ 30 lbs each from fwd baggage bin	-120.0	35.0	-4200.0
Install 4 crew bags @ 25 lbs each in wardrobe	100.0	-12.0	-1200.0
NEW BASIC OPERATING WEIGHT	39864.2	391.3	15598463.2
$100 + \frac{(\text{BOW} \times (\text{BOW Arm} - 400))}{10,000} =$	65.3	INDEX	
Weight and Balance performed by:	Phil DeSeve <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>		
	Inspector		
This revised basic operating weight, moment and index has been received by Dispatch:	Sent to dispatch via email 1/22/08 @ 01:37 AM Dispatch		
Reviewed by the Manager of Quality Control:	<span style="border: 1px solid black; display: inline-block; width: 100px; height: 20px;"></span> Manager of Quality Control		
			CA-M26Q Rev 1 08/13/08

Supervisor  
12/18/08

## Q400 - SUPPLEMENTAL AIRCRAFT WEIGHT AND BALANCE

N: 200WQ	SERIAL No.: 4200	AIRCRAFT TYPE: Q400	
DATE: 12/18/08	PREPARED BY: Colgan Air	CERT#: NSVA519S	
	+- NET WEIGHT	(X) +-ARM	(=) +- MOMENT
CURRENT BASIC OPERATING WEIGHT	39864.2	391.3	15598463.2
ADJUSTMENTS: ACARS PRINTER - Removal	-10.20	-78.40	799.7
NEW BASIC OPERATING WEIGHT	39854.0	391.4	15599262.9
$100 + \frac{(BOW \times (BOW \text{ Arm} - 400))}{10,000} =$		65.8	INDEX
Weight and Balance performed by:	<div style="border: 1px solid black; background-color: black; width: 200px; height: 20px; margin: 0 auto;"></div> Inspector		
This revised basic operating weight, moment and index has been received by Dispatch:	<div style="border: 1px solid black; background-color: black; width: 200px; height: 20px; margin: 0 auto;"></div> Dispatch		
Reviewed by the Manager of Quality Control:	<div style="border: 1px solid black; background-color: black; width: 200px; height: 20px; margin: 0 auto;"></div> Manager of Quality Control		

Superseded  
2/4/09

# Q400 - SUPPLEMENTAL AIRCRAFT WEIGHT AND BALANCE

N: 200WQ	SERIAL No.: 420	AIRCRAFT TYPE: Q400		
DATE: 02/04/09	PREPARED BY: M. Orish	CERT#: NSVA519S		
		+- NET WEIGHT	(X) +-ARM	(=) + MOMENT
CURRENT BASIC OPERATING WEIGHT		39854.0	391.4	15599262.8
ADJUSTMENTS: Fly Away Kit - Removal		-30.3	35.0	-1060.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
NEW BASIC OPERATING WEIGHT		39823.7	391.7	15598202.3
$100 + (\text{BOW} \times \text{BOW Arm} - 400) =$ $100,000$		66.9	INDEX	
Weight and balance performed by:		<div style="background-color: black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <small>Inspector</small>		
This revised basic operating weight, moment and index has been received by Dispatch:		<div style="background-color: black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <small>Dispatch</small>		
Reviewed by the Manager of Quality Control:		<div style="background-color: black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <small>Manager of Quality Control</small>		

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