



Transport Canada / Transports Canada

CERTIFICATE OF AIRWORTHINESS

1. Nationality and Registration Mark Marque de nationalité et d'immatriculation	2. Aircraft Manufacturer and Model Constructeur et modèle de l'aéronef	3. Aircraft Serial Number Numéro de série de l'aéronef	4. Type Certificate and Category Certificat de type et catégorie
C-FDJJ	COMMANDER AIRCRAFT COMPANY 112	273	TC A1250 Normal / Utility

5. This Certificate of Airworthiness is issued pursuant to the Aeronautics Act and certifies that, as of the date of issuance, the aircraft in respect of which it was issued has been inspected and found to conform to the type certificate therefor, to be in a condition for safe operation, and has been shown to meet the comprehensive and detailed airworthiness requirements referred to in Annex 8 to the Convention on International Civil Aviation.

6. The aircraft identified above shall be maintained and certified in accordance with the applicable requirements of the Canadian Aviation Regulations.

7. This Certificate shall remain in force until suspended or cancelled in accordance with the Aeronautics Act.

8. In respect of the noise emission levels specified in Chapter 516 of the Aeronautics Manual, this aircraft:

☐ complies with the requirements specified below / satisfait aux exigences précitées (ci-dessous)

September 17, 2001 M.W. Gorham

Date of issue / Date de délivrance For the Minister of Transport / Pour le ministre des Transports

Ministry of Transport / Ministère des Transports

CERTIFICAT DE NAVIGABILITÉ

1. Nationality and Registration Mark Marque de nationalité et d'immatriculation	2. Aircraft Manufacturer and Model Constructeur et modèle de l'aéronef	3. Aircraft Serial Number Numéro de série de l'aéronef	4. Type Certificate and Category Certificat de type et catégorie
C-FDJJ	COMMANDER AIRCRAFT COMPANY 112	273	TC A1250 Normal / Utility

5. Le présent certificat de navigabilité est délivré en vertu de la Loi sur l'aéronautique et certifie qu'à la date de délivrance dudit certificat, l'aéronef visé par ce certificat a été inspecté, est conforme à son certificat de type, est apte à voler en toute sécurité et a démontré qu'il satisfait aux exigences du code de navigabilité complet et détaillé tel que décrit à l'Annexe 8 de la Convention relative à l'aviation civile internationale.

6. L'aéronef ci-haut mentionné est entretenu et certifié conformément aux exigences pertinentes du Règlement sur l'aviation canadien.

7. Le présent certificat reste en vigueur à moins qu'il n'y ait suspension ou annulation conformément à la Loi sur l'aéronautique.

8. En vertu des normes d'émission de bruit décrites au chapitre 516 du Manuel de navigabilité, l'aéronef mentionné:

☒ is not required to comply / n'est pas obligé de satisfaire aux exigences

Seal / Sceau

September 17, 2001 M.W. Gorham

Date of issue / Date de délivrance For the Minister of Transport / Pour le ministre des Transports

Ministry of Transport / Ministère des Transports

AIRPLANE FLIGHT MANUAL MODEL 112

SERIAL NO. 126 AND SUBSEQUENT

FOR COORDINATION WITH SALES AND SERVICE
INFORMATION, SERIAL NO. 126 AND SUBSEQUENT
ARE REFERRED TO AS MODEL 112A



Commander Aircraft Division
Rockwell International

5001 North Rockwell Avenue
Bethany, Oklahoma 73008

How to buy
from J. Curry
www.rockwell.com

Weight & Balance Calculations for C-FDJJ

Empty Weight 1822
Useful Weight 828
Gross Take Off Weight 2650

	Maximum Weights		One Pilot Scenario		Family Scenario		Two Pilot Scenario	
Item	Weight	Moment	Weight	Moment	Weight	Moment	Weight	Moment
Aircraft Empty Weight	1822	190	1822	190	1822	190	1822	190
Pilot (Commander Gord)	212	21	212	21	212	21	212	21
Co-Pilot (Joanne)	173	19			173	19	220	22
Rear Passenger (Jenny)	67	9			67	9		
Rear Passenger (David)	161	22			161	22		
Fuel	215	24	408	44	215	24	366	40
Luggage wt. available	0	0	200	32.5	0	0	30	17
Take off Weight & Balance	2650	285	2642	283	2650	285	2650	285
Landing Weight & Balance *	2467	265	# 2259	247	2467	265	2340	253

Aircraft empty weight
Pilot (Commander Gord)
Co-Pilot (David)
Rear Passenger (Jenny)
Rear Passenger

Full Fuel

Luggage wt. available

	Weight	Moment
Aircraft empty weight	1822	190
Pilot (Commander Gord)	212	21
Co-Pilot (David)	161	22
Rear Passenger (Jenny)	67	9
Rear Passenger		
Full Fuel	380	43
Luggage wt. available	8	5
Take off Weight & Balance	2650	290
Landing Weight & Balance	2302	251

Dad and Kids

Weight	Moment
1822	190
212	21
161	22
67	9

* Assumes 10 gallons left for landing.

408 lbs. = full tank 288 lbs. = tabs

Max landing Weight IS 2550 lbs.

Last weighing 04/05/2006

LEFT	765		
RIGHT	750		
NOSE	307	GROSS T/O W	USEFUL LOAD
TOTAL	1822	-	2650= 828

4/6/06

How much can I carry?

Weight and Balance Report

Date April 7, 2006

Name Gord Tessier
4 Goodman Crescent
St. Catharines ON

Aircraft Commander AC11
Reg. C-FFDJ

Position	Left main wheel	765lbs
	Right main wheel	750lbs
	Nose wheel	307lbs

Computation	Nose	Weight	ARM	Moment
	L Main	765	122	93330
	R Main	750	122	91500
		1822	108.01	196803

New centre of gravity is	108.01" aft of datum
New empty weight is	1822lbs
Aircraft total moment	196803

This weight and balance report has been prepared IAW applicable airworthiness requirements

Eaglerock Aviation Ltd.
Niagara District Airport
NOTL.


R. Evans
M294373

WEIGHT AND BALANCE AMENDMENT
#2

REG. C-FDJJ SERIAL# 273 MODEL AC11

EMPTY WEIGHT TAKEN FROM REPORT DATED SEPT 12, 2001

		WEIGHT	ARM	MOMENT
		1787.2	103.32	184648
Remove	AK350	2.3	75	172.5
	MX 170B	6.0	75	450
	Localizer	2.8	75	210
	Encoder	4	63	252
	D.G	2.75	75	206.25
	Alt. Indicator	2.0	75	150
	Audio Panel	2.3	75	172.5
ADD	GNS 430	6.5	75	487.5
	GTX327	3.0	75	225
	SSD120-30-RS232	.65	75	48.75
	GMA340	1.50	77	115.5
	NSD360A	4.10	75	307.5
	C2000 FLT COMP	4.0	75	300
	ATTITUDE IND	2.8	75	210
	PITCH SERVO	2.7	202	545.4

NEW TOTALS 1793.9 103.41 185501.2

NEW C of G 103.41" AFT OF DATUM

OWNER G. Tessier
4 Goodman Cres.
St. Catharines ON

The weight and balance report described above has been performed in accordance applicable airworthiness requirements.

[Signature]
K. Evans
Eaglerock Aviation
January 9, 2006

Systems

Fit. Pin/Link

Supplement List

AirMobile

WEIGHT AND BALANCE AMENDMENT # 1

REG: C-FDJJ SERIAL # 273 MODEL COMMANDER 112A

EMPTY WEIGHT TAKEN FROM ORIGINAL FACTORY REPORT DATED SEPT. 24, 1972

EMPTY	WEIGHT	ARM	MOMENT
	1779.0	103.49	183589

ADD			
AK-350 ENCODER	.4	64	25.6
AK-450 ELT	2.8	203	568.4
FIRE EXTINGUISHER	5.0	93	465

NEW EMPTY WEIGHT 1787.2

NEW CENTRE OF GRAVITY 103.32 INCHES AFT OF DATUM

THE WEIGHT AND BALANCE AMENDMENT DESCRIBED ABOVE HAS BEEN PERFORMED
I.A.W. APPLICABLE AIRWORTHINESS REQUIREMENTS.

September 12, 2001

R. EVANS
M294373

ADMINISTRATION: 720 South Service Road, Unit 1, Stoney Creek, Ontario, Canada L8E 5S7 (905) 643-0032 Fax: (905) 643-7799
OPERATIONS: St. Catharines Airport, Box 727, Virgil, Ontario L0S 1T0 Tel.: (905) 685-4336 Fax: (905) 685-7503

Name: _____ Date: 9/24/72
 Prepared: C.H. Lee
 Checked: _____
 Approved: R. Kimberlin
 Weight & Balance Calculation Form
 Model: 717
 Report No. N12152

Scale Position	Scale Reading (pounds)	Scale Tare (pounds)	New Weight of Wheel (pounds)	Arm (inches from airframe datum)	Moment (inch-pounds)
NOSE	403.0	-0-	403.0	39.00	15717
LEFT MAIN	714.0	11.5	702.5	122.00	85705
RIGHT MAIN	685.0	11.5	673.5	122.00	82167

Total Net Weight = 1779.0
 Total Moment = 183589

Witnessed by: Lee 9/1/5
 Calculated by: _____
 C.G. Arm = 103.19
 minus 93.148

Note deviations from configuration specified in "Weigh-up Procedure":
 No Fuel Full Oil & Hyd.

MAC=55.05

x 100 =
 % MAC

Directions for calculation of airframe total net weight, total moment, C.G. arm:

- Obtain scale reading for nose, left main, right main wheels. Record in blocks provided above. Obtain the scale tare for nose, left main, right main wheels. Tare is the weight of items like chocks which are not to be included in the airplane weight. Record this tare in the blocks provided.
- Subtract nose tare from nose scale reading and put down as nose net weight.
- Subtract left main tare from left main scale reading and put down as left main net weight.
- Subtract right main tare from right main scale reading and put down as right main net weight.
- Multiply the results of step 2 above by 39 and enter results as nose moment.
- Multiply the results of step 3 above by 122 and enter results as left main moment.
- Multiply the results of step 4 above by 122 and enter results as right main moment.
- Add the results of steps 5, 6, 7, above (the moments) together to get the total moment. Enter as total moment.
- Add the results of steps 2, 3, 4, above (the net weights) together to get the total net weight. Enter as total net weight.
- Divide the results of step 9 above (total net weight) into the results of step 8 above (total moment) to get the C.G. Arm. Enter the results as the C.G. arm.
- If required, subtract 93.148 from C.G. Arm, divide by 55.05, multiply

SYSTEMS

FT. RAINIER

SCHEMATIC LIST



Equipment List for 1975 Rockwell Aero-Commander 112A Serial Number 273

ITEM	PART NUMBER	SERIAL NUMBER
Fuselage	43000-400	273A
Wing L/H	42000-901	273A
Wing R/H	42000-902	273A
Aileron L/H	42003-1	273A
Aileron R/H	42003-2	273A
Flap L/H	42004-901	274A
Flap R/H	42004-902	273A
Horizontal Stab.	44002-900	274A
Elevator L/H	44017-901	271A
Elevator R/H	44017-902	273A
Vertical Stabilizer	44003-904	273A
Rudder	44006-900	273A
Nose Gear	45002-1	LMC370
Main Gear L/H	45017-901	LMC202
Main Gear R/H	45017-902	LMC266
Engine Mount	46309-903	NONE
Cabin Door L/H	43014-901	273A
Cabin Door R/H	43014-902	273A
Compass	NV2C-12	621021-33
Altimeter	101735-01495	C102598

SYSTEMS

FOR AIRWING

SC
Equipment List

Tachometer & Hour Meter	ES551 WE	NONE
Airspeed	EA-51 75-02-ACM	5458
Rate/Climb	7000T	50524
Turn & Bank	52D75-13	4799E
Clock 8 Day	A-11-90	A5074
Horizontal Situation Ind.	NSD360	15893A
Attitude Indicator	52D267M	T11148D
Flap Gauge	304AA	NONE
Suction Gauge	3-310-5	580
Instrument Clusters	873000-9 873002	NONE NONE
Manifold/ Fuel Pressure Gauge	UI6080-H46	37171
EGT Gauge	R-10-10	086694-H3
Fuel Quantity L/H	873000-9	NONE
Fuel Quantity R/H	873000-9	NONE
Oil Pressure	873002	NONE
Oil Temperature	873002	NONE
Ammeter	873000-9	NONE
Fuel Pump (Electric)	A8120-C	01281
Engine	10-360-C1D6	L-13289-51A
Propeller	HCE2YR-1BF/F7666-A	DK 524
Propeller Governor	34-828-014-2	8281

SUPPLEMENTS

FLY RUNNING SUPPLEMENTS

Alternator	ALX8421ECH	51000007
Voltage Regulator	R15V0N	TOF029
Gascolator	A1540-3	80
Fuel Pump (Engine)	75247	NONE
Vacuum Pump	200CC	90802
Injector	2524592-1	41316
Starter	MZ-4206	NONE
Magneto L/H	4373	99021950
Magneto R/H	4370	96808083
Oil Cooler	8534108	73G-147
Selector Valve (Fuel)	A-400-1	0397
Brake Valve	A-850-3	0306
Brake Cylinder R/H Pilot	A-049-3P	1250
Brake Cylinder L/H Pilot	A-049-3P	1239
Brake Cylinder L/H Co-Pilot	A-110-27	0112
Brake Cylinder R/H Co-Pilot	A-110-27	0181
Forward Comm. Antenna	DMC-70-1	1344
Aft Comm. Antenna	DMC-70-1	1348
Marker Beacon Receiver	KMA-20	7462
Nav/Com. 1 Garmin	GNS-430	97130784
Nav/Com. 2	MX-170B	4655
Nav/Glide Slope Indicator	KI-214	6814

SYSTEMS

FLY MANUAL
SUPPLEMENTS

ADF Receiver	KR-85	19888
ADF Indicator	066-3017-00	19832
DME Receiver Narco	190	11070
Auto-Pilot	C2000	2156G
Auto-Pilot Roll Servo	1C784-3-105612	1490
Auto-Pilot Pitch Trim Servo	1C373-4365	1487
Auto-Pilot Pitch Servo	1C784-3-1056P	1491
ELT Ameri-King	AK-450	454053
Altitude Encoder	SSD120	SRA11200
Transponder Garmin	GTX-327	83722198
Audio Panel Garmin	GMA-340	96275828

Systems
Part Numbers
Suppliers

Avionics Design Services
355 Cranston Crescent
Midland ON L4R 4K6

Supplement No. FMS04030-1
Revision E

FLIGHT MANUAL SUPPLEMENT

Aircraft Make and Model: See Eligibility List, Page 4, 5, 6 & 7

Aircraft Registration: C-FDJJ

Aircraft Serial No: 273

Equipped with: **Garmin GNS 430 / GNS 530 SYSTEMS**

STC SA04-97

Sections 1 to 5 inclusive of this document comprises the approved Flight Manual Supplement. Compliance with Section 2, "Limitations", is mandatory.

The information and data contained in this document supersedes or supplements that contained in the basic Approved Flight Manual only in the areas listed herein. For Limitations, Procedures and Performance data not contained in this supplement, refer to the Approved Flight Manual or other applicable Approved Flight Manual Supplements.

This Supplement must be attached to the Approved Flight Manual for the aircraft with the subject design change incorporated.



Transport Canada Approved: _____

GNS 430



Quick Reference





GMA 340

Audio Panel



pilot's guide

Transponder

HSI

Autopilot

 **GARMIN.**

GTX™ 327

Mode A/C Transponder



pilot's guide

CENTURY FLIGHT SYSTEMS, INC.

KIT NO N60360A-15

SERIAL NO N604470

MINERAL WELLS, TX

10-01-99
68S85

HSI

Autopilot



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GARMIN International, Inc.
1200 East 151st Street, Olathe, Kansas 66062, U.S.A.

GARMIN (Europe) Ltd.
Unit 5, The Quadrangle, Abbey Park Industrial Estate, Romsey, SO51 9AQ, U.K.

GARMIN Corporation
No. 68, Jangshu 2nd Road, Shijr, Taipei County, Taiwan

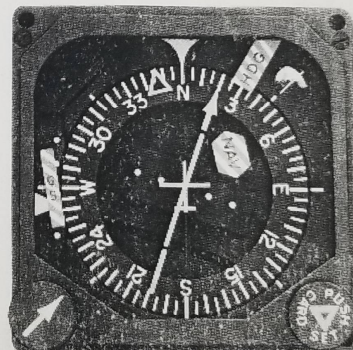
www.garmin.com

Part Number 190-00187-00 Rev. B



**CENTURY
NSD360A
NSD-360A (SLAVED)
NSD-1000 (SLAVED)
COMPASS SYSTEMS**

PILOT'S OPERATING HANDBOOK



CENTURY FLIGHT SYSTEMS, INC.

KIT NO NSD360A-15

SERIAL NO NSD4470

MINERAL WELLS, TX

10-01-99
68S85

HSI

Autopilot

CENTURY FLIGHT SYSTEMS, INC.
FAA/DAS APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT
FOR THE INSTALLATION OF
CENTURY 2000 AUTOPILOT, MODEL AK1056
IN
COMMANDER 112, 112B, 112TC, 114 & 114A

Reg. No. CFDJJ
Ser. No. 273
Model No. 112

This supplement must be attached to the appropriate FAA Approved Pilot's Operating Handbook/Airplane Flight Manual when Century Flight Systems, Inc. Century 2000 Autopilot Model AK1056 is installed in accordance with STC SA8534SW-D. Information contained herein supplements the information of the basic POH/AFM; for limitations, procedures and performance information not contained in the supplement, consult the basic POH/AFM.

FAA/DAS APPROVED

William R. Watson
WILLIAM R. WATSON
DAS STAFF COORDINATOR
DAS 7SW

DATED: 03-30-00

CENTURY FLIGHT SYSTEMS, INC.
DATE 03-30-00
P/N 68S1122
REV 1 03-13-03



CENTURY 2000
AUTOPILOT FLIGHT SYSTEM
PILOT'S OPERATING MANUAL

CENTURY FLIGHT SYSTEMS, INC.

KIT NO AK1056-2050

SERIAL NO 2K-2019
MINERAL WELLS TX

REVISED APRIL 9, 1999
68S1035