

N35VC

1969 Cessna 401A

Weight & Balance



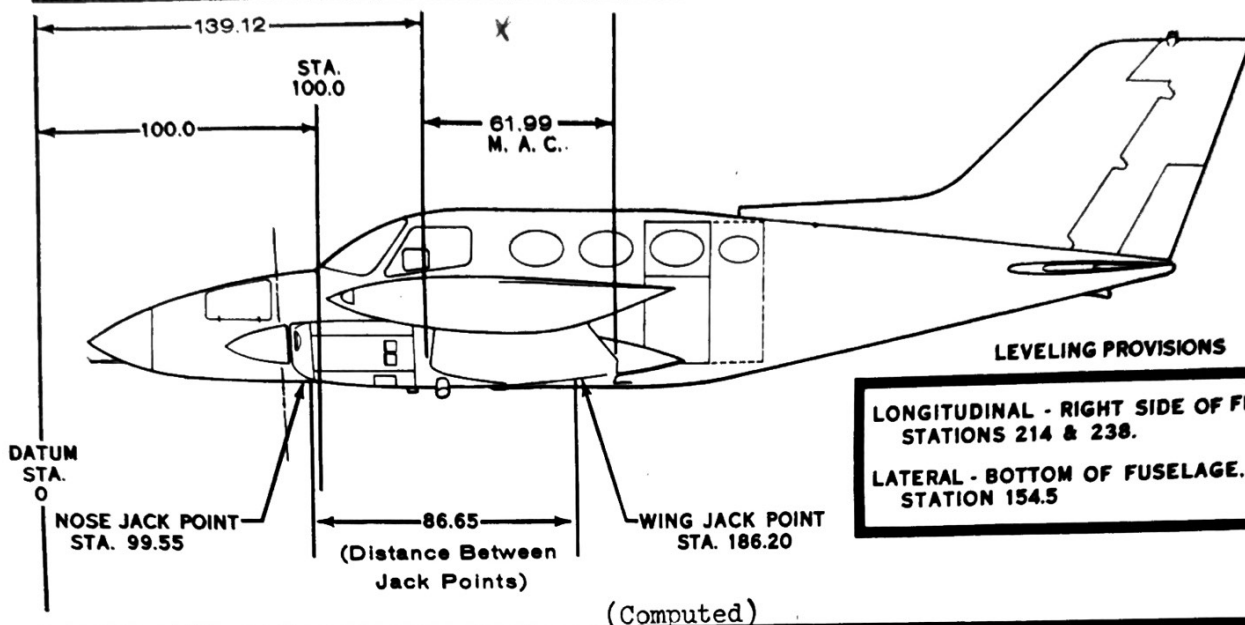
MSN: 401A0126

Prepared by the worldwide aviation specialists at RidgeAir, Inc.

WEIGHT & BALANCE DATA

MODEL 401A

CESSNA S/N 401A0126 REGISTRATION NUMBER N3152K DATE 10-6-69



AIRCRAFT AS WEIGHED

POSITION	SCALE READING	SCALE DRIFT	TARE	NET WEIGHT
LEFT WING				
RIGHT WING				
NOSE				
AIRCRAFT TOTAL AS WEIGHED				

C.G. ARMS OF
AIRCRAFT
AS WEIGHED

Nose Net Weight

(86.65)X()

()

=(186.2)–

=()

Total as Weighed

Inches
Aft of
Datum

NOTE: Because of high standards of quality control during production, it is not necessary to actually weigh every aircraft. Every tenth aircraft is weighed to insure maintenance of quality standards.

ALLOWABLE USEFUL LOAD

LICENSED GROSS WEIGHT	6300 LBS.
SUBTRACT: LICENSED EMPTY WEIGHT	4084 3999 LBS.
ALLOWABLE USEFUL LOAD	2210 2301 LBS.

LICENSED EMPTY WEIGHT AND C. G.

ITEM	WEIGHT (LBS)	C.G. ARM (IN)	MOMENT (LBS-IN)
AIRCRAFT (CALCULATED) AS WEIGHED	3916	154.3	604384.8
UNDRAINED FLUIDS	23	124.6	2804
DRAINABLE UNUSABLE FUEL (6 LBS PER GALLON)	TIP	12	1824
	WING OPTIONAL	6	984
	WING LOCKER L/H	3000 175.0	525
	WING LOCKER R/H	3000 175.0	525
PAINT	42	237.9	9897
TOTAL LICENSED EMPTY WEIGHT	4084 3999	154.36 155.0	630411.1 619893.8

Superseded 10-29-64
SUPERCEDED 6-3-74

IT IS THE RESPONSIBILITY OF THE AIRCRAFT OWNER AND THE PILOT TO INSURE THAT THE AIRCRAFT IS LOADED PROPERLY. THE EMPTY WEIGHT C. G. AND USEFUL LOAD ARE NOTED ABOVE FOR THIS AIRCRAFT AS DELIVERED FROM THE FACTORY. IF THE AIRCRAFT HAS BEEN ALTERED, REFER TO THE LATEST APPROVED REPAIR AND ALTERATION FORM FAA-337 FOR THIS INFORMATION.

**Commander Aero, Inc.**

10570 Springboro Pike Miamisburg, Ohio 45342
FAA/CRS GA5R-876M

WEIGHT AND BALANCE / EQUIPMENT LIST REVISION**DATED: JAN. 7, 2005**

MAKE: Cessna
MODEL: 401A
SER. No. 401A0126
REG. No. N35VC

PREVIOUS WT & BAL	EMPTY WEIGHT	ARM	MOMENT
DATED: OCT. 18, 1999	4,081.00	154.89	632,095.92

EQUIPMENT REMOVED	WEIGHT	ARM	MOMENT
GPS NAVIGATION SYSTEM			
Apollo GX-55 GPS Receiver	2.60	110.00	286.00
Apollo AN-34 GPS Antenna	0.40	74.00	29.60
REMOVED TOTALS	3.00	105.20	315.60

EQUIPMENT INSTALLED	WEIGHT	ARM	MOMENT
GPS NAVIGATION SYSTEM			
Garmin GPS-400 GPS Receiver	4.90	110.00	539.00
Garmin GA-56 GPS Antenna	0.25	74.00	18.50
N.A.T. RS12-20 Remote Switching Unit	0.35	107.00	37.45
INSTALLED TOTALS	5.50	108.17	594.95

	EMPTY WEIGHT	C.G.	MOMENT
<u>NEW WEIGHT AND BALANCE</u>	<u>4,083.50</u>	<u>154.86</u>	<u>632,375.27</u>
<u>NEW USEFUL LOAD</u>	<u>2,216.50</u>		

Signed _____

FOR: **COMMANDER AERO, INC.****DATE: Jan. 7, 2005**

Prepared by Tri-State Aero, Inc.
ORS ANTR1020

35VC

Cessna

401A

S/N 401A0126

DATE 10/18/99

WEIGHT & BALANCE REPORT

SUPERSEDES WEIGHT AND BALANCE REPORT DATED 3/11/99

ITEM	WEIGHT	ARM	MOMENT
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AIRPLANE TOTAL WEIGHT AS WEIGHED ON WHEELS.

FUSELAGE STATION OF FORWARD WEIGHING PIVOT	47.00
FUSELAGE STATION OF AFT WEIGHING PIVOT	172.72

AIRPLANE WEIGHT ON WHEELS WITH:	MAIN FUEL TANKS FULL
	AUX FUEL TANKS FULL
	OIL LEVEL 10 QTS.

LEFT MAIN	2153	172.72	371866.16
RIGHT MAIN	2058	172.72	355457.76
NOSE	692	47.00	32524.00
TIP FUEL	11		
	-588	152	-89376.00
AUX FUEL			
	-234	164	-38376.00

822

SUPER CTD
1/7/05

ACEW=	4081	LBS. (ROUNDED)
EWCG=	154.89	INCHES AFT OF DATUM
TOTAL MOMENT=	632095.92	
MAX. WEIGHT=	6300.00	LBS. *
USEFUL LOAD=	2219.00	LBS. (ROUNDED)

Less Fuel 822.00
1397.00

4081.00

632095.92

John P. Walker
 INSPECTOR FOR

TRI-STATE AERO, INC

C.R.S. AHTR102C

WEIGHT AND BALANCE REPORT

N3152K

S/N 401A-0126

DATE 01/16/97

	Weight	Arm	Moment
Previous	4095.0	155.9	638442.7
Removed:			

Installed:			
Windshield Heat Plate			
2.5	100.00	250.0	

New Empty Weight	4097.5	155.87	638692.7
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Maximum Gross Weight	6300.0
New Empty Weight	4097.5
New Useful Load	2202.5

Signature *Billy C. King Jr.* 448783094 IA

SUPERSEDED

See weight and balance
report dated: MAR 11 1999

AVIATION SALES INC.
DAYTON WRIGHT BROTHERS AIRPORT

WEIGHT AND BALANCE REPORT

N3152K

S/N 401A-0126

DATE 10-25-96

	Weight	Arm	Moment
Previous 4/13/93	4166.0	157.3	655311.8
Removed:			
Table RH	8.7	192.6	1675.6
Table LH	8.7	192.6	1675.6
Divider Aft	53.6	252.2	13517.9
New Empty Weight	4095.0	155.9	638442.7

Maximum Gross Weight	6300.0
New Empty Weight	4095.0
New Useful Load	2205.0

Authorized Signature

Joseph L. Lally 2263396AP

*superseded
01-16-97*

B.F. Goodrich

THE B.F. GOODRICH COMPANY

Akron Airport Operations

MINOR ALTERATIONS

MAKE: CESSNA DATE: 8-1-79 REGISTRATION NO. N3152K
 MODEL 401A TACH: 1178.2 SERIAL NUMBER: 401A0126
 REGISTERED OWNER: Griffith Walter G
 OWNER'S ADDRESS: North John H
3458 Massillon Road
Uniontown Ohio 44685

DESCRIPTION OF WORK ACCOMPLISHED: Installed pneumatic surface deicer system kit.

<u>ITEM</u>	<u>WEIGHT</u>	<u>ARM</u>	<u>MOMENT</u>
A/C Empty weight	3989.00	154.11	614770.00
Deicer system kit	27.06	201.86	5462.26
	-----		-----
NEW	4016.06	154.43	620232.26

A/C Empty weight taken from weighing sheet dated 6-8-79

NEW AIRCRAFT EMPTY WEIGHT - 4016.06
 NEW AIRCRAFT EMPTY WEIGHT C/G - 154.43
 NEW USEFUL LOAD - 2183.94

WORK ORDER NO. 4537

A/C WEIGHING FORM

Make Cessna Model 401 A Serial 401A-026 N3152K
 DATUM LOCATION 100" Fwd. of Fus. Behind AT Ribs LEVELING MEANS Level on AS.

Aircraft Weight with full oil ✓
 with full fuel ✓

1. Main weighing point is located Fwd. (172.7") Aft of datum
 2. Tail or nose weighing point is located () (47.0") Aft of datum

Weighing Point	Scale Reading	Tare	Net Weight	Arm	Moment
3. Left Main Wheel	2015				
4. Right Main Wheel	2135				
5. Sub-Total	4150			172.7	714705.00
6. Tail or Nose Wheel	728			47.0	34216.00
7. Total as weighed	4878			153.94"	750921.00

Space for listing of items when Aircraft is not weighed empty.

Item	Net Weight	Arm	Moment
8. oil 26 qt. net. @ 7.5 lbs./gal.	49	113.5	5561.5
9. FUEL 100 gal. @ 6 lbs./gal.	600 240	152. 164	91200.0 39390.0

10. Aircraft empty weight & c.g. 2989 lb. 154.11" 614770.0

MAXIMUM ALLOWABLE GROSS WEIGHT: 6300 lbs.

Useful Load: 2311 lbs

Computed by Walter H. P.

Date 5-5-79

Superseded
 8-16-79
 See Log Book.

LAURENCE AIRCRAFT ELECTRONICS, INC.
AKRON MUNICIPAL AIRPORT
AKRON, OHIO 44306
216-733-7877

FAA APPROVED REPAIR STATION 106-13
WEIGHT AND BALANCE CHANGES

AIRCRAFT MAKE Cessna MODEL 401A REG. NO. N3152K SERIAL NO. 401A0126

Previous A/C Empty Weight DATE <u>13 Sept. 1974</u>	CHECK ONE		WEIGHT	ARM	MOMENT
	in	out			
1. <u>Airdata DAT 456</u> ^{ADF} <u>Freq. Incl.</u>	<u>X</u>		<u>Neg.</u>	<u>-</u>	<u>-</u>
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

644310.3 divided by 4113.3 = 156.64
Total Moment Total Weight New CG

The new empty weight is 4113.3 lbs.

The new empty center of gravity is 156.64 inches Aft of the datum.

The new useful load is 2186.7 lbs. at 6300.0 lbs. gross weight.

See Aircraft Flight Manual for center of gravity limits.

Lowell Herschberger
AUTHORIZED SIGNATURE

Jan. 25, 1979
DATE

Phone 372-2864

RHOADES AVIATION
Bakalar Municipal Airport
Columbus, Indiana 47201

CRS 3278

Make & Model Cessna 401A

Date 13 Sept 74

N 3152K

S/N 401A0126

Supersedes Computations
Dated 3 June 74

ITEM	WEIGHT	ARM	MOMENT
A/C	4110	154.23	633885.6
Installed:			
ELT 10 Marco	3.3	315.9	10424.7

Empty Weight 4113.3
ECG 156.64
Useful load 2186.7
Moment 644310.3

4113.3 156.64 644310.3

Computed by Rick Weidig
(Rick Weidig)
Certificate No. A&P 2104204

Rhoades Aviation Inc.

BAKALAR MUNICIPAL AIRPORT
COLUMBUS, INDIANA 47201
Phone 372-1819

SUPERCEDED
13 SEPT. 74

CRS # 3278

DATE 3 June 74

Manf. Cessna Model 401 A
SER. No. 401 A-0126 Reg. No. N 3152 K

Aircraft As Weighed	Scale Reading	Tare	Net Weight	Arm	Moment
Left Main Wheel	2110	0	2110	172.72	364439.2
Right Main Wheel	2120	0	2120	172.72	366166.4
Total Main Wheel					
Nose Wheel	720	0	720	47.00	33840.0

Aircraft Weight and Moment

Items Weighed Not Part of Empty Weight

Tip Tank Fuel	- 600	152.0	- 91200
Wing Fuel	- 240	154.0	- 39360
	4110	154.23	633885.6

Total Weight and Moment to be Subtracted

New Empty W 4110
New Empty W 154.23
New Empty W 633885.6
New Useful Load 2190

Computed by Rickey Ray Weidig 2104804