

WEIGHT & BALANCE REPORT

Cessna 172M C-GRAJ Serial Number 172-62868

This aeroplane was stripped of paint, down to bare metal, and completely primed and painted, and then re-weighed on 14 February 2017.

The aeroplane equipment list at re-weighing was as described in the original weight & balance report, including all amendments up to the last amendment, number 6, dated 8 August 2016, with the following changes :-

- 1) Added – One first aid kit was added, in baggage area 1.
- 2) Removed – R-15 LORAN receiver
- 3) Removed – Three wheel fairings

The new Licenced Empty Weight (LEW) is	1,440.0 lbs
The new cg location, aft of the firewall datum is	40.64 inches
The new LEW moment is	58,516 inch-pounds

ALAN VINCENT

AME Name

Alan Vincent

AME Signature

16 FEBRUARY 2017

Date



BRAMPTON FLIGHT CENTRE

Brampton Flying Club
Brampton Flight Centre
Brampton Flight College

Home of The Great War Flying Museum

Weight and Balance And Equipment List Amendment

Aircraft Make / Model: Cessna 172
Aircraft Registration: C-GRAJ
Aircraft Serial Number: 17262868
Date: 8 August 2016
Amendment Number: 6

Item	Weight	Arm	Moment
From Previous Amendment	1466.4	38.92	57066.2
Empty weight			

Items Removed

AK-350 encoder	0.4	32.1	12.8
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Items Installed

A-30 encoder	0.3	32.1	9.6
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Totals:	1466.5	98.14	57063.0
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Gross weight 2300 LBS.

Useful Load 833.8 LBS.

The Maintenance Described above has been performed in accordance with the applicable standards of airworthiness.

P. Rawes M119713

Signature



Date

AUG 8 2016
~~FEB 18, 2015~~

Brampton Flight Centre

13691 McLaughlin Road, RR1
Cheltenham, Ontario, Canada L0P 1C0
tel: (905) 838-1400 fax: (905) 838-1405
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Note, 15 Feb 2017
It is not correct to add up
the 'Arm' values'
 $Arm = 57063 / 1466.5$
 $= 38.91''$

D. Lye CA289730

Shortt Aviation

Collingwood Regional Airport, P.O. Box 946, Stayner, ON, L0M 1S0
705-443-8167

Amendment 5 to Weight and Balance and Equipment List dated : April 18,1989.

Manufacturer: CESSNA Aircraft Corporation
Model: 172M

Serial Number: 17262868
Registration: C-GRAJ

	Weight	Arm	Moment
Licensed Empty Weight	1467.35	38.97	57183.0

Equipment Removed:

ELT, DEFT 1A S/N 2324	3.0	116.8	350.4
Total Weight Removed			

Equipment Installed:

ELT, Kannad 406 AF Compact	2.0	116.8	233.6
p/n S1840501-01, s/n LX1100060855			
Antenna AV200, and RC200			
Total Weight Installed			
New Empty Weight	1466.35		57066.2

GROSS WEIGHT 2300. Lbs.

NEW EMPTY WEIGHT 1466.35 Lbs.

USEFUL LOAD 833.65 Lbs.

NEW EMPTY WEIGHT C of G 38.92 Inches Aft of Datum

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

Date: Dec 24 / 2013


Mike Shortt 095631

4 AMENDMENT TO WEIGHT AND BALANCE/Eqpt. List Dated: 12/21/73

MANUFACTURER : Cessna Aircraft Co.
MODEL : 172M
SERIAL NUMBER: 62868
REGISTRATION : C-GRAJ
OWNER/OPERATOR : Mr. Randy Coward, Kitchener, Ontario.

	<u>WEIGHT</u>	<u>ARM</u>	<u>MOMENT</u>
LICENSED EMPTY WEIGHT:	1466.85	38.98	57176
<u>INSTALLED:</u>			
Narco AR 850 Blind Encoder	<u>+0.5</u>	14.0	<u>+7</u>
<u>TOTALS:</u>	1467.35		57183

SUPERCEDES
DEC 24/2013

GROSS WEIGHT : 2300.0 lbs.
NEW LICENSED EMPTY WEIGHT : 1467.35 lbs.
DISPOSABLE LOAD : 832.65 lbs.
NEW EMPTY WEIGHT C OF G POSITION : 38.97 lbs.
INSTALLATION TO : Dwg. # KAAV89-GRAJ-1

I certify that this data has been prepared in accordance with the provision of the Engineering and Inspection Manual and to the best of my knowledge represents the true empty weight and centre of gravity of this aircraft.

DATE: April 18/89
B. Aylward. 1-77519 648-2921
519 648-2146
Telex 069 55367

Lectron avionics

Incorporated as 349597 Ontario Ltd.

Sales - Installations - Maintenance
Repair and Service

Glenair Hangar,
Hamilton Civic Airport, P.O. Box 89
Mount Hope, Ontario L0R 1W0
Telephone (416) 679-6554

President: Jacques Tihon
Secretary: Paula Tihon

WEIGHT & BALANCE REPORT

Amendment #3

Date: 26 October 1987

Model: C172M

Reg.: C-GRAJ

Prepared by: H. Bondzio

Report No.: 26-10-87

Page: 1 of 1

Add	Removed	Equipment	Weight lbs.	Arm aft Datum "	Moment lbs.-"
		aircraft empty weight taken from W&B amendment #2 dated Oct.31-1975.	1463.4	39.03	57111.98
1		R15 Loran"C" receiver	2.64	11.3	29.83
1		T1000 preamplifier	0.27	37.9	10.23
1		CI 121SP antenna	0.54	45.0	24.30
			1466.85		57176.34
		New empty weight is: <u>1466.85 lbs</u>			
		New empty weight C of G is: <u>38.98 " aft of datum</u>			
SUPERCEDED DATE <u>APRIL 18/87</u>					

"I certify that this data has been prepared in accordance with the provisions of the Engineering and Inspection Manual and to the best of my knowledge represents the true empty weight and centre of gravity of this aircraft"

YZM / 384



Equipment List

Prepared: H. Bondzio Report #: 26-10-87 Page: 1 of 1

WEIGHT AND BALANCE - AMMENDMENT #2

Cessna 172M Registration C-GRAJ Serial # 17262868

Ammendment to cover installation of Narco DME-190, Serial #11101.
Lectron Drawing #LRC-RAJ-75-29. MOT Approval # 0-75-261.

Previous Empty Weight of Aircraft as per Ammendment # 1 = 1457.2 pounds.
Previous Empty Weight C. of G. as per Ammendment # 1 = 39.12 inches
aft of datum.

Computation:

<u>Item</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Aircraft	1457.2	39.12	57012
Narco DME-190	5.2	11.3	58.76
-mounting box	0.6	11.3	6.78
-antenna	0.4	86.1	34.44
	<u>1463.4</u>		<u>57111.98</u>

New Empty Weight of Aircraft = 1463.4 pounds.

New Empty Weight C. of G. = 39.03 inches aft of datum.

New Useful Load = 836.6 pounds.

Date Oct. 31, 1975,

Compiled by *A. A. Ball*
Engineer
4200-764
Licence



EQUIPMENT LIST - AMMENDMENT # 2

Cessna 172M Registration C-GRAJ Serial # 17262868

Ammendment to cover installation of Narco DME-190, Serial # 11101.

	<u>Weight Lbs.</u>	<u>Arm Inches</u>
Narco DME-190 Installation	6.2	16.13

Date Oct 31/75

Compiled by W. A. Ball
Engineer
Yam 769
Licence

ELECTRICAL LOAD ANALYSIS - Ammendment #2

Prepared to show addition of DME.

Cessna 172M

Registration C-GRAJ

Serial # 17262868

Apparatus	No. of Units	Current Drawn in Amperes		
		per unit	cont. load	emerg. load
Static Load	-	1.3	1.3	1.3
Heated Pitot	1	6.5	6.5	-
Landing Lamp (dual)	-	15.6	-	-
Flashing Beacon	1	7.0	7.0	-
Strobe Lights	-	3.0	-	-
Navigation Lights	-	5.6	5.6	5.6
Instrument Lights	-	1.1	1.1	1.1
300 NAV/COM	2	0.5	1.0	0.5
300 Marker Receiver	1	0.02	0.02	0.02
300 ADF	1	1.6	1.6	1.6
300 Transponder	1	1.6	1.6	1.6
400 Glide Slope	1	0.5	0.5	0.5
Total for installed equipment			26.22	12.22
<u>Added:</u>				
Narco DME 190	1	2.9	2.9	2.9
			29.12	15.12

Notes:

- 1) Battery 12V, 25A/H
- 2) Alternator 14V, 60A
- 3) Maximum continuous load is within 80% of alternator rating.

Date Oct 31/74,

Compiled by

C. A. Baep
Engineer

44 M. 709
Licence

AEROPLANE INSPECTION RELEASE CERTIFICATE
(Aircraft After Overhaul, Major Repair or Major Modification)

Aeroplane Type Cessna Model Skyhawk 2, 172M Registration G-GRAJ
Manufacturer Cessna Aircraft Co Serial No. 172 62868
Type Approval No. 3A12 or FAA Spec. or Suppl. T.C.No. _____
Date of Manufacture 1-7-74 Time since new 740:10 Time since overhaul ----

Engines - Type and Model Lycoming O-320-E2D
Serial Nos. Time Since New Time Since Overhaul
1. L-36575-27A 740:10 ----
2. _____
3. _____
4. _____

Propellers - Type and Model McCaughey 1C160/DTM 7553
Serial Nos. Time Since New Time Since Overhaul
1. 723329 740:10 ----
2. _____
3. _____
4. _____

Particulars of Alighting Gear

Wheels Make McCaughey Model D30260 Tire Size 6.00 x 6
Floats Make _____ Model _____
Skis Make _____ Model _____

Record of Approved Modifications Embodied during this operation

Drawing & Issue No.	Description
	<u>Installation of Narco DME-190</u>
	<u>& Narco Antenna Model UDA-3</u>
	<u>as per attached sketch #O-75-261</u>
	<u>dated Oct. 28, 1975.</u>

I hereby certify that the ~~operation, inspection~~ modification, as detailed in the pertinent worksheet, has been done with certified material according to accepted practice and the component is airworthy.

In the case of overhaul, I further certify that all Airworthiness Directives and mandatory modifications have been incorporated and the aircraft conforms with the approved drawings for the type.

Date Oct. 31, 1975 Signed E. H. Renney Y2M-88
Approved Inspector or 'B' Cat. A.M.E. Lic. No.

I hereby certify that I have inspected this aircraft, especially the flying and operating controls for correct operation, and the presence of all safety and locking devices, and the aircraft is airworthy.

Date Oct. 31, 1975 Signed W. A. Ball Y2M-769
Approved Inspector or 'A' Cat. A.M.E. Lic. No.

Name of Approved Organization

Countersigned _____

Date _____

Airworthiness Inspector (Only required if the
A/C is of U.S. Reg'd.)

Certificate of Pilot

I hereby certify that I have test flown the aircraft described herein and that its performance, flying qualities and functioning of all units, including control systems, are up to the standard of the type.

Date 31 Oct 75 Signed Ryudd Y2P 23532
Pilot

CESSNA AIRCRAFT COMPANY

WICHITA, KANSAS

Weight & Balance and Installed Equipment Data

CONTROL NUMBER	DATE	MODEL	REGISTRATION NUMBER	CESSNA SERIAL NUMBER
406386	12/21/73	172SKYHAWK II	N11RL	17262668

ITEM	WEIGHT	ARM	MOMENT
STANDARD AIRPLANE (EMPTY, DRY, UNPAINTED) COMPUTED	1299.4	38.8	50417
INCLUDES EQUIPMENT ITEMS REQUIRED FOR FAA CERTIFICATION			
UNUSABLE FUEL 4.0 GALLONS	24.0	46.0	1104
ALLOVER EXT 435 PEPPER GREEN/TIGER YELLOW/VES WFT	11.5	112.4	1293
INTERIOR OF OLIVE GREEN FABRIC/GREEN	NEGL.		
300 NAVCOM 360CH COM 200CH NAV W/VOR/ILS EX RT328C	14.3	32.5	465
SKYHAWK II NAV-PACK	25.0	20.0	500
300 MARKER BEACON 2ND R502B	3.0	46.7	140
400 GLIDESLOPE 2ND R443A	6.0	80.3	482
FILTER OIL FULL FLOW	4.5	5.0	23
GROUND SERVICE PLUG RECEPTACLE	2.7	2.6	7
HEADREST LH FRONT SEAT	.8	47.0	38
HEADREST RH FRONT SEAT	.8	47.0	38
HEADREST LH REAR SEAT	.8	88.0	69
HEADREST RH REAR SEAT	.8	88.0	69
LIGHT LANDING DOAL-COLL MOUNTED EXCH	1.3	17.0	22
MICROPHONE/HEADSET 100L CMT WHL PROV FOR MAP LT	.2	12.0	2
LIGHT MAP CMT WHL-WHEN ORDERED W/MIKE/HEADSET	.2	21.5	4
LIGHTS STROBE-WING TIP	3.4	43.3	147
PRIMING SYSTEM ENGINE	.5	12.0	6
SEAT FRONT LH STD	NEGL.		
SEAT FRONT RH STD	NEGL.		
STEPS AND HANDLES REFUELING	1.7	17.3	30
VALVE OIL QUICK DRAIN	NEGL.		
QUICK FUEL DRAINS AND SAMPLER CUP	NEGL.		
VENTILATION SYSTEM REAR SEAT	1.7	50.9	87
WINDOW RIGHT HAND DOOR HINGED EXCH	NEGL.		
WINDOWS ALL TINTED EXCH	NEGL.		
WINTERIZATION KIT ENGINE	.8	22.7	18
MODEL 172SKYHAWK II	48.3	40.6	1961
LICENSED EMPTY WEIGHT	1451.7	39.1	56770
GROSS WEIGHT 2300.0 LICENSED WEIGHT 1451.7 USEFUL LOAD	848.3		
Fire Extinguisher Installation per ammend. # 1	5.5	44.0	242
DME-190 Installation per ammendment # 2	6.2	16.13	100
Gross Weight 2300, Licenced Weight 1463.4, Useful Load	836.6		



CESSNA AIRCRAFT CO

EQUIPMENT LIST
MODEL 172M (1974)

WICHITA, KANSAS

NOTES

1. Suffix letter to item numbers:
 -R = Required items of equipment for FAA certification
 -S = Standard equipment items
 -O = Optional equipment items replacing required or standard items
 -A = Optional equipment items which are in addition to required or standard items
2. Refer to the sheet titled "Weight and Balance and Installed Equipment Data" for a listing of equipment installed on your aircraft at the factory.
3. Unless otherwise indicated, true values (not net change values) for weight and arm are shown. Positive arms are distances aft of datum; negative arms are distances forward of datum (see "Weighing Procedures" sheet for datum location).
4. A separate FAA approval must be obtained if the following items are not installed per applicable Cessna drawings or accessory kit instructions.
- Complete assembly installations are indicated by asterisks after the item weight and arm. Some major components of the assembly are listed on the lines immediately following. The summation of these major components does not necessarily equal the complete assembly installation.

ITEM NO ▶	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
001-R	Engine, Lycoming O-320-E2D (includes all electric starter and vacuum pad)	0550319	266.0	-20.0
002-R	Propeller Assy. (Fixed Pitch-Landplane)	C161001-0306	38.2*	-38.3*
	Propeller (McCauley)	1C160/DTM7553	30.1	-39.1
	3.5 inch Prop Spacer Adaptor (McCauley)	C4516	5.9	-35.4
002-R-1	Propeller Assy. (Fixed Pitch-Landplane)	C161001-0309	38.8*	-38.3*
	Propeller (McCauley)	1C160/CTM7553	30.5	-39.1
	3.5 inch Prop Spacer Adaptor (McCauley)	B3898	6.2	-35.4
002-0	Propeller Assy. (Fixed Pitch-Floatplane)	C161001-0307	39.8*	-38.4*
	Propeller (McCauley)	1A175/ETM8042	31.5	-39.1
	3.5 inch Prop Spacer Adaptor (McCauley)	C4516	6.2	-35.4
002-0-1	Propeller Assy. (Fixed Pitch-Floatplane)	C161001-0308	39.8*	-38.4*
	Propeller (McCauley)	1A175/ATM8042	31.5	-39.1
	3.5 inch Prop Spacer Adaptor (McCauley)	B3898	6.2	-35.4
003-R	Spinner Installation, Propeller	0550320	2.0*	-41.4*
	Spinner Dome	0550236-8	1.2	-43.1
	Fwd Spinner Bulkhead	0550321-4	0.3	-40.8
	Aft Spinner Bulkhead	0550321-1	0.4	-37.3
004-R	Alternator 14 Volt, 60 Amp (Belt Drive)	C611501-0102	10.8	-29.0
006-R	Regulator, 14 Volt, 60 Amp Alternator	C611001-0101	1.0	3.0
007-R	Battery, 12 Volt, 25 Amp Hour	0511319	23.0	0.0
008-R	Filter, Carburetor Air	C294510-0301	0.5	-26.0
009-R	Heating System, Cabin & Carburetor Air (includes exhaust system)	0550319 0506000	17.5	-21.0

APPROVED
 Cessna Aircraft Co., Pawnee Div.
 Delegation Option Manufacturer CE-1

ISSUED: 14 May 73

REVISED:

APPROVED:

Date

5-15-73

Executive Engineer

SHT 1 OF 11



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172 M (1974)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
1				
010-R	Oil Cooler Installation Oil Cooler (Harrison) or (Stewart Warner)	0550319 8526250 8406E	2.5* 2.1 2.1	-2.5 -2.5 -2.5
020-R	Wheel, Brake, & Tire Assy, 6.00x6 Main(2) Wheel Assy, McCauley D30260 (each) Brake Assy, McCauley (left) Brake Assy, McCauley (right) Tire, 4-Ply Blackwall (each) Tube (each)	C163015-0201 C163003-0105 C163032-0106 C163030-0112 C262003-0101 C262023-0102	41.7* 6.4 1.8 1.9 8.5 1.8	57.8 58.2 54.5 54.5 58.2 58.2
021-R-1	Wheel & Tire Assy, 5.00x5 Nose Wheel Assy, McCauley C30174 (each) Tire, 4-Ply Blackwall (each) Tube (each)	C163015-0101 C163003-0201 C262003-0102 C262023-0101	8.0* 3.0 4.0 1.2	-6.8* -6.8 -6.8 -6.8
021-0	Wheel & Tire Assy, 6.00x6 H.D. Nose Wheel Assy, McCauley D-30255 (each) Tire, 4-Ply Blackwall (each) Tube (each) Nose Wheel Fork & Barrel, Heavy Duty	C16301580105 C163003-0301 C262003-0101 C262023-0102 0543062	17.5* 8.5 1.8 2.5	-6.5* -6.8 -6.8 -6.8 -5.0
022-0	Whitewall Tires (Replaces Blackwall Tires) of items 020-R and 021-R (Net Weight Change) Main Tire, 4-Ply Whitewall (each) Nose Tire, 4-Ply Whitewall (each)	0501024 C262004-0102 C262004-0101	 8.0 	 58.2 -6.8
030-R	Altimeter	C661012-0101	0.7	15.0
030-0	Altimeter (Sensitive)	C661071-0101	1.0	14.0
030-0-1	Altimeter (Sensitive) Feet & Millibars	C661071-0102	1.0	14.0
030-0-2	Altimeter (Sensitive) 20 ft Markings	C661025-0102	1.0	14.0
031-R	Ammeter	S-1320-5	0.5	16.0
032-R	Compass, Magnetic - Installation	0513262-1	0.5	14.0
033-R	Indicator, Airspeed	C661060-0109	0.6	16.2
033-0	Indicator, True Airspeed	0513236	0.7	16.3
034-R	Indicator, Audible Pneumatic Stall Warning	0523112	0.5	28.5
035-R	Instrument Cluster, Engine LH Fuel Oil Pres	C669504-0103	0.5	16.5
036-R	Instrument Cluster, Engine RH Fuel Oil Temp	C669505-0101	0.5	16.5
037-R	Tachometer Installation, Engine Recording Tach Indicator (SW 551-RB) Tach Flexible Shaft (ASES 1605-31)	0506000 C668020-0102 S-1605-8	1.0* 0.7 0.3	12.1* 16.0 3.0
050-R	Seat, Adjustable Fore & Aft Pilot	0514093	12.6	44.0
050-0	Seat, Infinite Adjusting Pilot	0514077	23.0	41.5
051-S	Seat, Adjustable Fore & Aft Co-Pilot	0514093	12.6	44.0
051-0	Seat, Infinite Adjusting Co-Pilot	0514077	23.0	41.5
052-S	Seat, Rear (One Piece Back Cushion)	0514081	22.0	79.5
052-0	Seat, Rear (Two Piece Back Cushion)	0514082	23.0	79.5
053-R	Belt Assy, Pilot Lap	S-2070-103	1.0	37.0

ISSUED: 14 May 73

REVISED:

SHT 2 OF 11



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172M (1974)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
054-S	Shoulder Harness Assy, Pilot	S-2070-201	1.0	37.0
054-0	Belt & Shoulder Harness Assy, Pilot (For Australia & New Zealand)Net Change	S-2070-3VH	Neg	-
055-S	Belt & Shoulder Harness Assy, Co-Pilot Lap	S-2070-3	2.0	37.0
055-0	Belt & Shoulder Harness Assy, Co-Pilot (For Australia & New Zealand)Net Change	S-2070-3VH	Neg	-
056-S	Belt Assy, Rear Occupant Lap (Set of Two)	S-1746-13	2.0	70.0
056-0	Belt & Shoulder Harness Assy, Rear Occupant Lap (Set of Two)	S-2070-8	3.0	70.0
056-0-1	Belt & Shoulder Harness Assy. Rear (Set of two) for Australia & New Zealand	S-2070-8VH	3.0	70.0
060-S	Baggage Net	2015009	0.5	95.0
061-S	Paint, Standard Stripe Exterior (24040in ²)	0504022	3.7	166.9
061-0	Paint, Overall Exterior	0504022	11.5*	112.4*
	Overall White Base (98694in ²)		8.2	90.5
	Color Stripe (24040in ²)		3.3	166.9
061-0-1	Paint Scheme - Skyhawk II (Includes overall white base)		11.5	112.4
062-0	Fuel System, Long Range Wing Tanks (Net Change)	0520013	9.5	48.0
063-0	Heating System, Pitot (Net Change)	0422355	0.6	24.4
070-R	Placard, Operational Limitations for Day VFR only	1205001	0.0	-
070-0	Placard, Operational Limitations for Day Night VFR (Requires Item 235-A or 236A)	1205001	0.0	-
070-0-1	Placard, Operational Limitations for Day Night VFR-IFR (Requires Items 235-A or 236-A gyros and Nav-Com radio)	1205001	0.0	-
070-0-2	Placard, Operational Limitations, Float- plane (Reqd. with float installation)	1205001	0.0	-
200-A	Clock, Electric	C664508-0101	0.4	16.3
201-A	Cables, Corrosion Resistant Control (Net Change)	0500036	0.0	-
202-A	Controls Installations, Dual	0513335	4.9	12.4
203-A	Corrosion Proofing, Internal	0500036	6.0	77.0
204-A	Detectors, Navigation Light (Set of 2)	0701013-1, -2	0.0	-
205-A	Fairing Installation, Wheel (Set of 3)	0541225-1	17.9*	45.4
	Nose Wheel Fairing		4.1	-4.9
	Main Wheel Fairing (each)		6.9	60.3
206-A	Filter Installation, Full Flow Engine Oil	1756004-1	4.5*	-5.0*
	Adaptor Assembly (Lycoming)	755288	0.8	-6.5
	Filter Can Assembly (AC 6436992)		1.8	-3.3
	Filter Element Kit (AC 6435683)		0.3	-3.3
207-A	Fire Extinguisher Installation	0501011	2.9*	43.8*
	Fire Extinguisher	C421001-0101	2.6	44.0
	Fire Extinguisher Bracket	C421001-0102	0.3	42.2
208-A	Arm Rest - Rear Seat (2)	0715039	1.5	72.5

ISSUED: 14 May 73

REVISED:

SHT 3 OF 11



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172 M (1974)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
1				
210-A	Gage, Outside Air Temperature	C668507-0101	0.1	28.6
211-A	Ground Service Plug Receptacle	0513229	2.7	-2.6
212-A	Gage, Carburetor Air Temperature	0513339	1.0	14.0
213-A	Gyros, Horizon & Directional	0513407-4	5.8	14.0
214-A	Gyros, Horizon & ARC Directional (for NOM 300 use)	0513398-9 1201126-1	6.1	13.8
215-A	Headrest, Front (Set of 2)	0514048	1.5	47.0
216-A	Headrest, Rear (Set of 2)	0414048	1.5	86.0
217-A	Hook, Glider Tow (Installed) (Stowed)	0500228	0.5 0.5	229.0 95.0
220-A	Indicator, Rate of Climb	C661080-0101	1.0	14.9
221-A	Indicator, Turn Coordinator	C661003-0504	1.3	15.8
223-A	Indicator Turn Coordinator (for use with Item 500-A Nav-O-Matic 200)		1.3	15.8
224-A	Indicator Turn Coordinator (for use with Item 500-A Nav-O-Matic 300)	0511251	1.9	14.6
225-A	Indicator, Turn and Bank	S-1413N2	2.0	14.5
230-A	Leather Seats (Net Change)	CES-1511	2.0	62.0
231-A	Light Installation, Cowl Landing Lamp, 250 Watt (G.E.)	0501016 4522	1.9* 0.8	-27.1* -29.0
232-A	Lights, Dual Cowl Mounted Landing Lamp, 250 Watt (G.E.) (each)	0552141 4509	3.2* 0.5	-23.0* 0.5
233-A	Light, Map (Control Wheel Mounted)	0570087	0.2	21.5
234-A	Light, Map and Instrument Panel (Doorpost Mounted)	0700149	0.3	32.0
235-A	Lights, Courtesy (Set of 2)	0521101	0.5	61.0
236-A	Light Installation, Omnilflash Beacon Beacon Light on Fin Tip Flasher Power Supply Resistor (Memcor)	0506003 C621001-0103 C594502-0101 0R95-1.5	2.1* 0.4 0.8 0.3	184.2* 243.0 205.8 208.1
237-A	Light Installation, Wing Tip Strobe Flasher Power Supply (Set of 2 in Wing) Strobe Light, Wing Tip (Set of 2)	0501027 C622007-0101 C622006	3.4* 2.3 0.2	43.3* 47.0 43.5
238-A	Mirror, Rear View	0500312	0.3	15.5
240-A	Oil Quick Drain Valve (Net Change)	1701015	0.0	
241-A	Primer System, Engine Three Cylinder	1756003	0.5	-12.0
242-A	Recorder Installation, Flight Hour	0501013	0.8	12.3
243-A	Rings, Cargo Tie-Down (Stowed) (Use ARM as installed with Cargo)	0500042	1.0	
244-A	Rings, Airplane Hoisting	0541115	1.1	49.1
ISSUED: 14 May 73			REVISED:	
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EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172 M (1974)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
246-A	Seat Installation, Child's Fold-Away Lap Belt Assy	0501009 S-1746-5	8.4* 0.8	101.1* 100.8
	Seat Assy	0714005-1	6.7	100.8
247-A	Shelf, Utility	0500230	1.0	103.0
248-A	Stabilizer Abrasion Boots	0500041	1.5	206.0
250-A	Static Source, Alternate	0501017	0.2	15.5
251-A	Steps & Handle, Refueling	0513415	1.7	17.8
252-A	Stretcher Installation (Boxed)	0700164-4	Use Actual Arm & Weight Change	
253-A	Sun Visors (Set of 2)	0500040	0.9	32.8
254-A	Tow Bar (Stowed)	2001014	1.6	95.0
255-A	Vacuum System Installation	0513407	4.5*	-2.8*
	Dry Vacuum Pump	Airborne 201CC C431003-0101	3.5	-6.3
		Airborne 205CC C431003-0101	2.3	-6.3
		Airborne 211CC C431003-0101	1.8	-6.3
		Edo Aire 1U228-001 C431003-0301	3.7	-6.3
	Filter	C294501-0101	0.5	4.7
	Gauge	C668509-0101	0.1	16.2
	Relief Valve	C482001-0401	0.5	4.5
256-A	Ventilation System, Rear Seat	0700322	1.7	50.9
257-A	Winterization Kit Installation, Engine	0501008-1	0.8*	-22.7*
	Breather Tube Insulation	0552011	0.4	-13.8
	Two Cowl Inlet Air Covers (Installed)	0552132-1,-2	0.3	-32.0
	(Stowed)	0552132-1.-2	0.3	95.0
258-A	Window, Right Door Hinged (Net Change)	0511803	0.0	-----
259-A	Windows, Overhead Cabin Top (Net Increase)	0511800	0.9	47.9
260-A	Windows, Tinted Front, Rear, & Side (Net Change)	0500267	0.0	-
270-A	Floatplane Fuselage Structural Modifications & Fittings (Option "C")	0500083	6.1	45.5
271-A	Floatplane Cowl Deck V-Brace (Installed) (Stowed)	0513003	1.1 1.1	26.2 95.0
272-A	Floatplane Aileron Rudder Interconnect (Floatplane only) (Installed arm) (Stowed arm)	0560012	0.4 0.4	69.6 95.0
	Items 270-A & 271-A, are also approved for landplane operations.			
273-A	Floats & Attachments, (Edo Model 89A2000 Floats and Model 502 (Attach Gear) Float Installation Consists of Items: 273-A and 404-A. Replaces Items: 020-R and 021-R Main Gear Assy, Nose Gear Assy, Brakes and Steering Mechanism. Replaces Items: 021-0, 205-A and 254-A if installed.	Edo-36335 Edo-36335	274.0	42.5 Use Actual In- stalled Weight and Arm Change
ISSUED: 14 May 73		REVISED:		SHT 5 OF 11



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172M (1974)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
400-A	Primary Group Kit Equipment Consists of: 030-0 Sensitive Altimeter (Exchange) 200-A Electric Clock C664508-0101 210-A Outside Air Temperature Gage 220-A Rate of Climb Indicator 221-A Turn Coordinator Indicator 231-A Landing Light, Cowl Mounted 233-A Map Light, Doorpost Mounted 253-A Sun Visors (Set of 2)	0501024 C661017-0102 C668507-0101 C661080-0101 C661003-0504 0501016 0700149 0500040	6.1* 0.2 0.4 0.1 1.0 1.3 1.9 0.3 0.9	5.7* 10.5 16.3 28.6 14.9 15.8 -27.1 32.0 32.8
401-A	Skyhawk Equipment Kit Consists of Items: 200-A Armrests, Rear Seat (Set of 2) 205-A Wheel Fairings (Set of 3) 213-A Gyros, Horizon & Directional 257-A Tow Bar (Stowed) 255-A Vacuum System 400-A Primary Group Kit 061-0 Paint, Overall Exterior (This item is required by, but not included in Skyhawk Equipment Kit Weight)	0500505 0514079 0513407 0501019 0513407 0501024	37.5* 1.5 17.9 5.8 1.6 4.5 6.1	31.6* 72.5 45.4 14.0 95.0 -2.8 5.7
402-A	Skyhawk II Equipment Consists of Items: 401-A Skyhawk Kit 033-0 True Air Speed Ind. (Net Change) 063-0 Heated Pitot System 202-A Dual Controls 204-A Nav Light Detectors 235-A Courtesy Lights 236-A Flashing Beacon Light 250-A Static Alternate Source 581-A E.L.T. (Requires 060-0-1 Special Paint and Cessna Nav-Com, but weights are not included)	0500505	48.3* 37.5 0.1 0.6 4.9 --- 0.5 2.1 0.2 2.4	40.6* 31.6 16.7 24.4 12.4 --- 61.0 184.2 15.5 116.8
ISSUED: 14 May 73 REVISED: SHT 6 OF 11				



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172M (1974)

WICHITA, KANSAS

ITEM NO 1	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
404-A	Floatplane Equipment Kit, Cessna Complete (Option "A") Consists of Items: 002-0 Propeller, Floatplane (Exchange) 070-0-1 Placard, Operational Floatplane 201-A Cables, Corrosion Resistant (Exch) 203-A Corrosion Proofing, Internal 244-A Rings, Airplane Hoisting 251-A Steps & Handle, Refueling 270-A Fuselage Modification (Option "C") 271-A Cowl Deck V-Brace (Installed) 272-A Interconnect System (Installed)	0500083 0550320 1205001-34 0500036 0500036 0541115 0513415 0500083 0513003 0560012	17.4* 1.0 0.0 0.0 6.0 1.1 1.7 6.1 1.1 0.4	48.2* -42.3 - - 77.0 49.1 17.8 45.5 26.2 69.6
405-A	Floatplane Equipment Kit, Cessna Partial (Option "B") Consists of Items: 070-0-1 Placard, Operational Floatplane 201-A Cables, Corrosion Resistant (Exch) 203-A Corrosion Proofing, Internal 245-A Rings, Airplane Hoisting 251-A Steps & Handle, Refueling 270-A Fuselage Modification (Option "C") 271-A Cowl Deck V-Brace (Stowed) 272-A Interconnect System (Stowed)	0500083 1205001-34 0500036 0500036 0541115 0513415 0500083 0513003 0560012	16.4* 0.0 0.0 6.0 1.1 1.7 6.1 1.1 0.4	58.9* - - 77.0 49.1 17.8 45.5 95.0 95.0
500-A	Nav-O-Matic 200 - Std. A/C Controller Turn Coordinator, (Item 223-A) Wing Servo Installation Servo Unit		12.0* 1.6 1.3 9.4 (5.9)	55.2* 13.1 15.8 66.4 (68.9)
501-A	NOM 200 Skyhawk or Skyhawk II Controller Turn Coordinator Exchange Wing Servo - Installation Servo Unit		10.7* 1.6 0.0 9.4 (5.9)	60.0* 13.1 - 66.4 (68.9)
502-A	Nav-O-Matic 300 (With Item 214-A) Controller Amplifier Gyro Installation (Item 214-A) Omni Coupler Turn Coordinator (Item 223-A) Vacuum System (Item 255-A) Wing Installation Items: Servo Actuator Miscellaneous Parts	0511251	21.0* 1.5 6.1 0.8 1.9 4.5 3.3 3.5	25.2* 15.9 13.8 5.9 14.0 -2.8 68.9 60.5
ISSUED: 14 May 73			REVISED:	
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EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172M (1974)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
1				
503-A	NOM 300 Skyhawk & Skyhawk II Controller Amplifier Gyro Instl. - (Net Change) Ommt Coupler Turn Coordinator - (Net Change) Wing Servo Instl.		10.7* 1.5 0.3 0.8 0.6 6.8	43.1* 15.9 10.0 5.9 12.0 65.4
510-A	Electronic Option A Nav/Com Provisions 520-A Antenna & Cable, Left VHF Com 521-A Antenna & Cable, VOR Nav 524-A Audio Junction Box with Relay 525-A Headset Installation 526-A Microphone Instl., Hand Held 530-A Speaker Installation, Cabin Circuit Breaker, 10 Amp	3910115-8 0570400-736 5070400-704 0570400-713 0570400-740 S-1360-10	4.3* 0.8 1.5 0.4 0.2 0.3 1.1 0.0	81.7* 47.5 172.4 11.5 15.9 17.2 37.9 16.5
511-A	Electronic Option B Right VHF Antenna Inst. Antenna	3910115-9 C598501-0103	0.8* 0.4	47.5* 62.5
512-A	Electronic Option C ADF Antenna Provisions 300 ADF Loop Antenna Cables 300 ADF Sense Antenna Cable Assy	3910115-10 33827 207000-256	1.1* 0.6 0.2	19.2* 20.0 25.0
513-A	Electronic Option D Nav-O-Matic Wing Provisions	1200166-4	1.2	68.0
520-A	Antenna & Cable, Left VHF Communications Antenna		0.8* 0.4	47.5* 62.5
521-A	Antenna & Cable, VOR Navigation		1.5	172.4
522-A	Antenna Coupler & Cables, VOR (S-2086-1)		0.2	5.0
523-A	Audio Junction Box with Relay	0570400-736	0.4	11.5
524-A	Headset Installation (C596501-0104)	0570400-704	0.2	15.9
525-A	Microphone Installation, Hand Held	0570400-713	0.3	17.2
526-A	Microphone Headset Combination	3970112-1	0.2	12.0
527-A	Radio Cooling System (Each Radio)	3930115	0.2	8.0
528-A	Radio Selector Switches		0.5	16.0
529-A	Speaker Installation, Cabin (C596504-0201)	0570400-740	1.1	37.9

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EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172M (1974)

WICHITA, KANSAS

ITEM NO 1	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
550-A	Cessna 300 ADF (546A or 546E) R-546A Receiver or R-546E Receiver with BFO M-346A Mounting Box IN-546 Indicator L-346A Antenna, Fixed Loop Sense Antenna Installation	0570400- 41240-1001 41240-0101 40900-0000 41250-1001 41000-1000 0570400-608	8.2* 3.3 3.3 0.5 0.9 1.4 0.2	19.8* 12.1 12.1 12.1 14.0 39.3 108.6
551-A	Cessna 300 DME (KN-60C) KN-60C Transceiver 066-1028-03 Mounting Box KA-32 Antenna	0570400-69 C582602-0301 0570400-622	9.6* 6.8 0.6 0.4	18.5* 11.3 11.3 86.1
552-A	Cessna 300 Marker Beacon (502B) R-502B Receiver Antenna. "L" Shaped Rod	3910102-3 31240-0014 0770681-1	3.0 1.0 0.4	46.7 11.8 142.5
553-A	Cessna 300 Nav/Com 100 Channel (508A) RT-508A Receiver Transmitter Mounting Box IN-514R VOR Indicator	3910120-3 39360-1014 40550 31640-0000	9.2* 6.7 0.8 0.9	12.2* 10.7 10.7 16.3
554-A	Cessna 300 Nav/Com 360Ch. (328C & IN-514R) RT-328C Receiver Transmitter Mounting Box IN-514R VOR/LOC Indicator	3910120-4 41740-1114 40550 31640-0000	9.7* 7.3 0.8 0.9	11.4* 10.7 10.7 16.3
555-A	Cessna 300 Nav/Com 360Ch. (328C & IN-525A) RT-328C Receiver Transmitter Mounting Box IN-525A VOR/ILS Indicator	3910123-3 41740-1114 40550 32350-0000	9.8* 7.3 0.8 1.0	11.4* 10.7 10.7 16.3
556-A	Cessna 300 Nav/Com 360Ch. (528E & IN-514R) RT-528E Receiver Transmitter Mounting Box IN-514R VOR/LOC Indicator	3910118-25 41380-1114 40550 31640-0000	9.7* 7.3 0.8 0.9	11.4* 10.7 10.7 16.3
557-A	Cessna 300 Nav/Com 360Ch. (528E & IN-525A) RT-528E Receiver Transmitter Mounting Box IN-525A VOR/ILS Indicator	3910118-26 41380-1114 40550 32350-0000	9.8* 7.3 0.8 1.0	11.4* 10.7 10.7 16.3
558-A	Cessna 300 HF Transceiver (PT-10A) PT-10A Transceiver Mounting Box PT-10-PS-14 Remote Power Supply DX-10-RL 14 Antenna Load Box 351 Inch Long Antenna Wire	0570400-106 C582103-0101 C582103-0201 C589502-0101 0.3	20.7* 4.2 0.5 8.6 4.2 0.3	86.0* 10.4 10.4 115.8 111.0 151.1
559-A	Cessna 300 VHF Transceiver (524A) RT-524A Transceiver M-514R Mounting Box	0570400-55 31390-1114 30420-0000	7.8* 6.6 0.7	10.9* 10.7 10.7

ISSUED: 14 May 73

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EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172M (1974)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
560-A	Cessna 300 Transponder (RT-359A) Receiver Transmitter Antenna (A-109A)	3910127-2 41420-1114 41530-0001	4.9* 2.8 0.3	34.8* 11.1 126.0
561-A	Cessna 400 Glideslope (443A) R-443A Receiver Mounting, Rigid Antenna	3910119-2 41650-0000 36450-0000 1200098-2	6.0* 2.7 0.3 0.2	80.3* 115.7 115.7 30.0
580-A	Sunair SSB HF Transceiver (ASB-125) RE-1200 Single Sideband Transceiver Mounting Box PA-1010A Remote Power Amplifier CU-110 Antenna Coupler 351 Inch Long Antenna Wire	0570400-125 99680 99682 99816 0570400-616	21.9* 4.5 0.7 8.9 4.9 0.3	86.3* 10.4 10.4 115.8 110.0 151.1
581-A	Emergency Locator Transmitter Transmitter (Leigh SHARC 7A) Antenna	0401008 C589510-0102 C589510-0103	2.4* 2.1 0.1	116.8* 116.4 122.0

ISSUED: 14 May 73 REVISED:

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EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL 172M (1974)

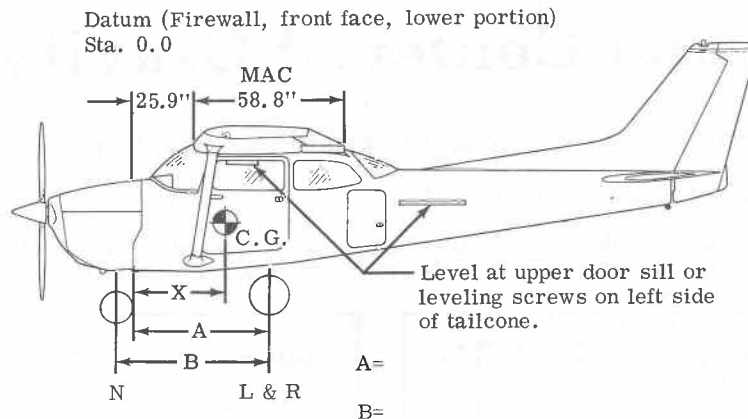
WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
1				
INSTRUCTIONS FOR USING RADIO EQUIPMENT LISTINGS:				
Complete radio installations require certain supporting equipment in addition to the individual radio items listed. The following installation examples and notes should be used as a guide in the determination of complete installations.				
1.	First Unit Cessna 300 Nav/Com 360 Channel with VOR/ILS Indicator Complete Installation. Consists of Items:		14.3*	32.7*
	555-A Cessna 300 Nav/Com 360 Channel (328A & IN-525A)		9.8	11.7
	520-A Antenna & Cable, Left VHF Communications		0.8	47.5
	521-A Antenna & Cable, VOR Navigation		1.5	172.4
	523-A Audio Junction Box with Relay		0.4	11.5
	524-A Headset Installation		0.2	15.9
	525-A Microphone Installation, Hand Held		0.3	17.2
	527-A Radio Cooling		0.2	8.2
	529-A Speaker Installation, Cabin		1.1	37.9
2.	Second Unit Cessna 300 Nav/Com 200 Channel with VOR Indicator Complete Installation. Consists of Items:		10.9*	14.8*
	554-A Cessna 300 Nav/Com 200 Channel (308A)		9.2	12.2
	520-A Antenna & Cable, Right VHF Communication		0.8	47.5
	522-A Antenna Coupler & Cables, VOR		0.2	5.0
	528-A Radio Cooling		0.2	8.0
	529-A Radio Selector Switches		0.5	16.0
3.	Second Unit Cessna 300 ADF with BFO Complete Installation Consists of Items:		8.7*	19.6*
	550-A Cessna 300 ADF (546E)		8.2	19.8
	528-A Radio Selector Switches		0.5	16.0
4.	Third Unit Cessna 300 Marker Beacon Receiver Complete Installation. Consists of Item 552-A Only.		3.0	46.5
5.	Fourth Unit Cessna 400 Glideslope Receiver Complete Installation. Consists of Item 561-A Only.		6.0	80.5
NOTES:				
1.	All panel-mounted transmitters require item 527-A (Radio Cooling System).			
ISSUED: 14 May 73			SHT 11 OF 11	
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Weighing Procedure

MODEL 172M

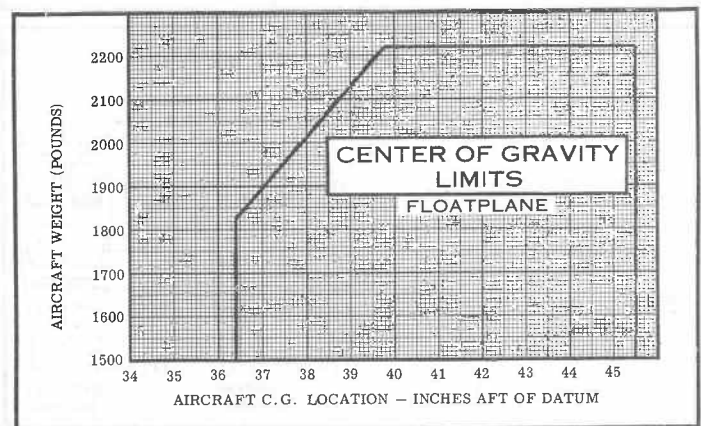
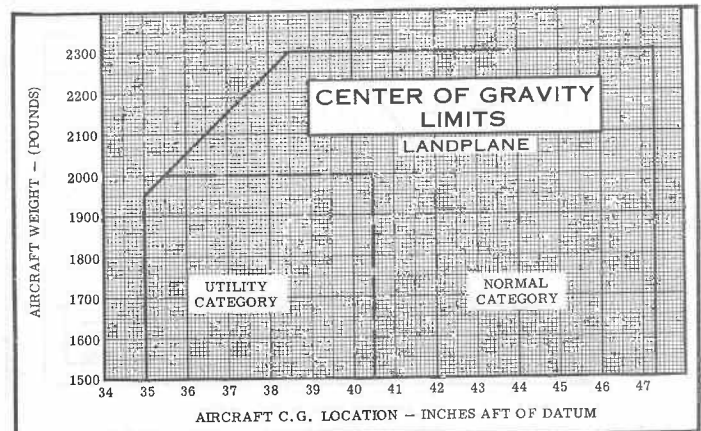
1974



Scale Position	Scale Reading	Tare	Symbol	Net Weight
Left Wheel			L	
Right Wheel			R	
Nose Wheel			N	
Aircraft Empty Weight (As Weighed)			W	

$$X = \text{ARM} = \frac{(A) - (N) \times (B)}{W} ; X = (\quad) - (\frac{ \quad }{ \quad }) \times (\frac{ \quad }{ \quad }) = (\quad) \text{ IN.}$$

- Preparation:
 - Inflate tires to recommended operating pressures.
 - Remove all wing tank drain plugs to remove all fuel.
 - Remove oil sump drain plug to drain all oil.
 - Move all sliding seats to the most forward position. All seat backs should be in the most nearly vertical position.
 - Put flaps in the fully retracted position.
 - Place all control surfaces in neutral position.
- Leveling:
 - Place scales under each wheel (500# nose, 1000# each main, minimum capacity for scales).
 - Deflate nose tire to center bubble on level (See Diagram).
- Weighing:
 - With the airplane level and brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.
- Measuring:
 - Obtain measurement "A" by measuring horizontally (along the airplane center line) from a line stretched between the main wheel centers to a plumb bob dropped from the firewall.
 - Obtain measurement "B" by measuring horizontally and parallel to the airplane center line, from center of nose-wheel axle, left side, to a plumb bob dropped from the line between the main wheel centers. Repeat on right side and average the measurements.
- Completing the Form:
 - Using weights from (3) and measurements from (4) the airplane weight and C.G. can be determined.
 - Obtain licensed empty weight by adding weight and moment of unusable fuel to airplane empty weight and moment. There are 4 gallons of unusable fuel (Weight = 24 Lbs, Moment = 1104 Lb. In.) in airplane with either the 42 gallon or 52 gallon capacity wing located fuel systems.



Loading and Center of Gravity Charts

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO ENSURE THAT THE AIRCRAFT IS LOADED PROPERLY.

When computing aircraft loading requirements, refer to the Weight and Balance and Installed Equipment Data sheet in the aircraft file for the licensed empty weight, arm and moment of the aircraft as delivered from the factory. (If alterations have been made to the aircraft, refer to Aircraft Records for the latest empty weight, arm and moment.) The aircraft weight and balance may then be determined using the Loading Graph and Center of Gravity Moment Envelope as indicated in the Sample Loading Problems below.

SAMPLE LOADING PROBLEM (NORMAL CATEGORY)	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)
1. Licensed Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel.)	1366	53.8		
2. Oil (8 Qts. - The weight of full oil may be used for all calculations. 8 Qts. = 15 Lbs. at -0.2 Moment/1000).	15	-0.2	15	-0.2
3. Usable Fuel (At 6 Lbs./Gal.)				
Standard Tanks (38 Gal. Maximum)	228	10.9		
Long Range Tanks (48 Gal. Maximum)				
4. Pilot and Front Passenger (Station 34 to 46)	340	12.6		
5. Rear Passengers	340	24.8		
6.*Baggage Area 1 or Passenger on Child's Seat (Station 82 to 108) 120 Lbs. Max.	11	1.0		
7.*Baggage Area 2 (Station 108 to 142) 50 Lbs. Max.				
8. TOTAL WEIGHT AND MOMENT	2300	102.9		
9. Locate this point (2300 at 102.9) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.				
NOTE				
* The maximum allowable combined weight capacity for baggage areas 1 and 2 is 120 lbs.				

SAMPLE LOADING PROBLEM (UTILITY CATEGORY)	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)
1. Licensed Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel.)	1366	53.8		
2. Oil (8 Qts. - The weight of full oil may be used for all calculations. 8 Qts. = 15 Lbs. at -0.2 Moment/1000).	15	-0.2	15	-0.2
3. Usable Fuel (At 6 Lbs./Gal.)				
Standard Tanks (38 Gal. Maximum)	228	10.9		
Long Range Tanks (48 Gal. Maximum)				
4. Pilot and Front Passenger (Station 34 to 46)	340	12.6		
5. TOTAL WEIGHT AND MOMENT	1949	77.1		
6. Locate this point (1949 at 77.1) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.				

