

AEROWEIGHT

LOAD DATA SHEET - PAGE 1 OF 3 - AEROPLANE WEIGHT

Aeroplane Type:..... CESSNA 172S

Registration Marking:..... **VH-KXW** Serial No: 172S10679

ISSUE:..... ONE	DATE:..... 7.5.08	EXPIRY:..... INDEFINITE
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AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:

ITEM	WEIGHT (Kg)	ARM (mm aft of datum)	MOMENT (Kg.mm)	CABIN CONFIGURATION
EMPTY	791.9	1057	836846	FOUR SEATS TOTAL
STANDARD CABIN CONFIGURATION				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE PILOTS HANDBOOK SECTION SIX				
	(lb)	(in)	(in.lb/1000)	
EMPTY	1745.8	41.6	72.64	FOUR SEATS TOTAL

NOTE: The above empty weights include:-

EMPTY - unusable fuel and full oil

AeroWeight Pty. Ltd.
BRUCE CLISSOLD
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LOAD DATA SHEET - PAGE 2 OF 3 - EQUIPMENT LIST

This list details the items included in the empty weight shown in Page 1.

Aeroplane Type:..... CESSNA 172S

Registration Marking:..... **VH-KXW** Serial No: 172S10679

ISSUE:..... ONE DATE:..... 7.5.08

ENGINES/PROPELLERS

Lycoming IO-360-L2A..... 1

McCaughey 1A170E..... 1

COMPASSES

Magnetic..... 1

Remote Indicating..... 1*

THERMOMETERS

Engine Temp(Cyl.Hd.)..... 1*

Oil Temp..... 1*

Outside Air Temp..... 1*

INDICATORS

Airspeed..... 1*

Airspeed (Standby)..... 1

Directional Indicator..... 1*

E.G.T..... 1*

Flight Hour..... 1

Fuel Flow..... 1*

Attitude Indicator..... 1*

Gyro Horizon (Standby).... 1

Stall Warning..... 1*

Tacho Non-recording..... 1*

Trim Indicator..... 1

Turn Co-ordinator (Blind).. 1

Vertical Speed..... 1*

Wing Flap Position..... 1

Assigned Altitude..... 1*

AVIONICS EQUIPMENT (TYPE)

ADF..... 0

Autopilot..... GARMIN GFC700

Speakers..... 1

G/slope..... PART NAVS

Headsets..... 1

GPS/Com.... GARMIN GIA63 (x2)

Displays..... GARMIN GDU1040 (x2)

Audio..... GARMIN GMA1347

Txponder.... GARMIN GTX33

AHRS..... GARMIN GRS77

Air Data..... GARMIN GDC-74A

Analyzer..... GARMIN GEA71

Stormscope.. 0

Magtomtr.... GARMIN GMU44

Datalink..... GARMIN GDL-69A

INSTRUMENTS

Altimeters..... 1*

Altimeters (Standby)..... 1

Ammeters..... 1*

Voltsmeters..... 1*

Clocks..... 1*

GAUGES

Engine Oil Pressure..... 1*

Fuel Contents..... 1*

Suction Pressure..... 1*

LIGHTS

Anti-collision..... 1

Inst. Full Panel Flood..... 1

Landing/Taxi..... 2

Map Reading..... 1

Navigation..... 3

White Strobes (tips)..... 2

Cockpit..... 2

Passenger Overhead..... 1

Wing Courtesy..... 2

RESTRAINT EQUIPMENT

Baggage Net..... 1

Inertia Reels..... 4

Lap-sash harnesses..... 4

Inflatable Restraints..... 2

MISCELLANEOUS EQUIPMENT

Dual Controls..... 1

Fire Ext.(Portable)..... 1

Cabin Heater..... 1

Vacuum Pumps..... 1

Heated Pitots..... 1

Alternate Static..... 1

Sun Visors..... Rosen

Standby Battery..... 1

Electric Trim..... 1

Wheel Fairings..... 3

DISPOSABLE LOAD LIST

First Aid Kit..... 0

Tow Bar..... 1

Torch..... 1

V.S.Beacon/E.L.T..... Artex 406

*** ITEMS MARKED ARE PART OF ELECTRONIC DISPLAYS**

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LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

Aeroplane Type:..... CESSNA 172S

Registration Marking:..... **VH-KXW** Serial No: 172S10679

ISSUE:..... ONE	DATE:..... 7.5.08
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The following is valid only for the Empty Weight specified in page 1 - Aeroplane Weight dated.. 7.5.08 and is based on calculations using Occupant Weights of 60 to 90 Kg each.

A...NORMAL CATEGORY OPERATIONS:-

1. OCCUPANTS:-

- Load Front to Rear (i.e. Front seats first)
- Load Heaviest Passengers in front row

2. BAGGAGE COMPARTMENT LIMITATIONS:-

<u>Number of Occupants</u>	<u>Maximum Baggage</u>
One(pilot)	54.4 Kg
Two	54.4 Kg
Three	54.4 Kg
Four	12.7 Kg

3. WING MAIN FUEL:-

Fuel is limited only by All Up Weight

MAXIMUM TAKE-OFF WEIGHT.....1156 Kg

B...UTILITY CATEGORY OPERATIONS:-

Due to an Aft C of G problem, this aircraft can not be Operated in Utility Category.

NOTE: If a full Loading Check is required, refer to Loading Instructions and Tables in the Pilots Handbook Section Six.

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WEIGHT AND BALANCE/ EQUIPMENT LIST

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INTRODUCTION

This section describes the procedure for establishing the basic empty weight and moment of the airplane. Sample forms are provided for reference. Procedures for calculating the weight and moment for various operations are also provided. For additional information regarding Weight and Balance procedures, refer to the Aircraft Weight and Balance Handbook (FAA-H-8083-1). A comprehensive list of Cessna equipment available for this airplane is included at the back of this section.

Specific information regarding the weight, arm, moment and installed equipment for this airplane as delivered from the factory can be found in the plastic envelope in the back of this POH.

WARNING

IT IS THE RESPONSIBILITY OF THE PILOT TO MAKE SURE THE AIRPLANE IS LOADED PROPERLY. OPERATION OUTSIDE OF PRESCRIBED WEIGHT AND BALANCE LIMITATIONS COULD RESULT IN AN ACCIDENT AND SERIOUS OR FATAL INJURY.

AIRPLANE WEIGHING PROCEDURES

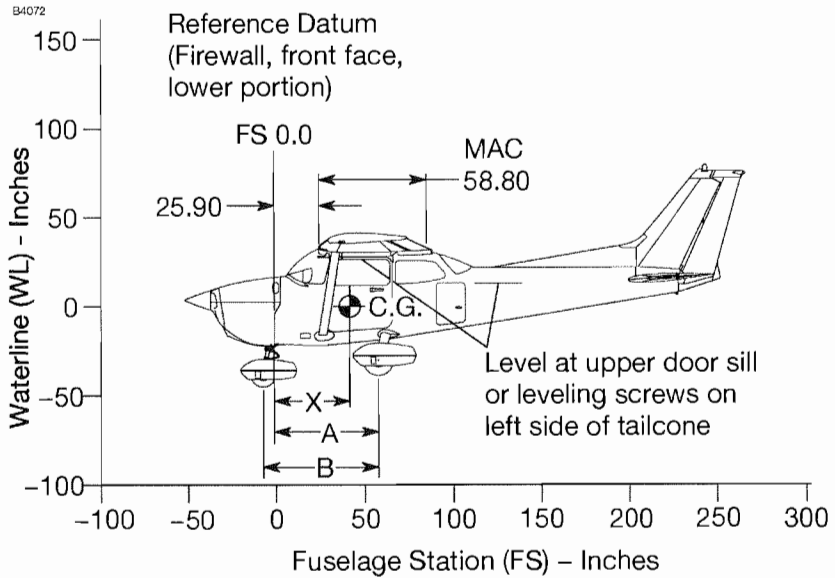
1. Preparation:
 - a. Inflate tires to recommended operating pressures.
 - b. Defuel airplane. Refer to the Maintenance Manual.
 - c. Service engine oil as required to obtain a normal full indication (approximately 7 quarts on dipstick).
 - d. Move sliding seats to the most forward position.
 - e. Raise flaps to the fully retracted position.
 - f. Place all control surfaces in neutral position.
 - g. Remove all non-required items from airplane.

(Continued Next Page)

AIRPLANE WEIGHING PROCEDURES (Continued)

2. Level:
 - a. Place scales under each wheel (minimum scale capacity, 1000 pounds).
 - b. Deflate the nose tire and/or lower or raise the nose strut to properly center the bubble in the level (Refer to Figure 6-1 Sheet 1).
3. Weigh:
 - a. Weigh airplane in a closed hangar to avoid errors caused by air currents.
 - b. With the airplane level and brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.
4. Measure:
 - a. Obtain measurement A by measuring horizontally (along the airplane centerline) from a line stretched between the main wheel centers to a plumb bob dropped from the firewall.
 - b. Obtain measurement B by measuring horizontally and parallel to the airplane centerline, from center of nosewheel axle, left side, to a plumb bob dropped from the line between the main wheel centers. Repeat on right side and average the measurements.
5. Using weights from step 3 and measurements from step 4, the Basic Empty Weight and C.G. can be determined by completing Figure 6-1 (Sheet 2).
6. Changes to the Airplane Weight and Balance due to alteration or repair must be documented in a permanent record within the POH similar to that shown in Figure 6-2.
7. A new Basic Empty Weight and CG Arm based on actual airplane weight (as weighed) is required after a major repair or alteration. It is recommended that the airplane be weighed to verify Basic Empty Weight and CG Arm at intervals not to exceed 5 years.

AIRPLANE WEIGHING FORM



NOTE

It is the responsibility of the pilot to make sure that the airplane is loaded properly.

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Figure 6-1 (Sheet 1 of 2)

AIRPLANE WEIGHING FORM

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Locating CG with Airplane on Landing Gear

$$X \text{ (Inches Aft of Datum)} = A - \left[\frac{\text{Nosewheel Weight} \times B}{\text{Total Weight}^*} \right]$$

Locating Percent MAC

*(Nose + L + R Wheel Weights)

$$\text{CG Percent MAC} = \frac{\text{CG Arm of Airplane} - 25.90}{0.5880}$$

Leveling Provisions

Longitudinal - Left side of tailcone
at FS 108.00 and 142.00

Measuring A and B

Measure A and B per pilot's
operating handbook
instructions to assist in locating
CG with airplane weighed on
landing gear.

Airplane as Weighed Table

Position	Scale reading	Scale drift	Tare	Net weight
Left Wheel				
Right Wheel				
Nose Wheel				
Airplane total as weighed				

Basic Empty Weight and Center-of-Gravity Table

Item	Weight Pounds	CG Arm (Inches)	Moment (Inch-Pounds /1000)
Airplane (calculated or as weighed) (includes all undrainable fluids and full oil)			
Drainable unusable fuel at 6.0 pounds per gallon - (3 gallons)	18.0	46.00	0.83
Basic Empty Weight			

Figure 6-1 (Sheet 2)

SAMPLE WEIGHT AND BALANCE RECORD

B3099

SAMPLE WEIGHT AND BALANCE RECORD

(Continuous history of changes in structure or equipment affecting weight and balance)

Airplane model			Serial number		Page number		Weight change						Running basic empty weight							
							Added (+)			Removed (-)			WT. (lb.)	Moment /1000						
							WT. (lb.)	Arm (in.)	Moment /1000	WT. (lb.)	Arm (in.)	Moment /1000								

0585T1009

Figure 6-2

WEIGHT AND BALANCE

The following information will enable you to operate your Cessna within the prescribed weight and center of gravity limitations. To determine weight and balance, use the Sample Loading Problem (Figure 6-3), Loading Graph (Figure 6-4), and Center of Gravity Moment Envelope (Figure 6-7) as follows:

Enter the appropriate basic empty weight and moment/1000 from the weight and balance records for your airplane in the YOUR AIRPLANE column of the Sample Loading Problem.

NOTE

In addition to the basic empty weight and moment noted on these records, the C.G. arm (FS) is also shown, but need not be used on the Sample Loading Problem. The moment which is shown must be divided by 1000 and this value used as the moment/1000 on the loading problem.

Use the Loading Graph to determine the moment/1000 for each additional item to be carried; then list these on the loading problem.

NOTE

Loading Graph information for the pilot, passengers and baggage is based on seats positioned for average occupants and baggage loaded in the center of the baggage areas as shown on the Loading Arrangements diagram. For loadings which may differ from these, the Sample Loading Problem lists fuselage stations (FS) for these items to indicate their forward and aft C.G. range limitations (seat travel and baggage area limitation). Refer to Figures 6-5 and 6-6 for additional loading information. Additional moment calculations, based on the actual weight and C.G. arm (FS) of the item being loaded, must be made if the position of the load is different from that shown on the Loading Graph.

Total the weights and moments/1000 and plot these values on the Center of Gravity Moment Envelope to determine whether the point falls within the envelope, and if the loading is acceptable.

(Continued Next Page)

WEIGHT AND BALANCE (Continued)

BAGGAGE TIEDOWN

A nylon baggage net having four tiedown straps is provided as standard equipment to secure baggage on the cabin floor aft of the rear seat (baggage area A) and in the aft baggage area (baggage area B). Six eyebolts serve as attaching points for the net. Two eyebolts for the forward tiedown straps are mounted on the cabin floor near each sidewall just forward of the baggage door approximately at station FS 90; two eyebolts are installed on the cabin floor slightly inboard of each sidewall approximately at FS 107; and two eyebolts are located below the aft window near each sidewall approximately at FS 107. A placard on the baggage door defines the weight limitations in the baggage areas.

When baggage area A is utilized for baggage only, the two forward floor mounted eyebolts and the two aft floor mounted eyebolts (or the two eyebolts below the aft window) may be used, depending on the height of the baggage. When baggage is carried in the baggage area B only, the aft floor mounted eyebolts and the eyebolts below the aft window should be used. When baggage is loaded in both areas, all six eyebolts should be utilized.

SAMPLE LOADING PROBLEM

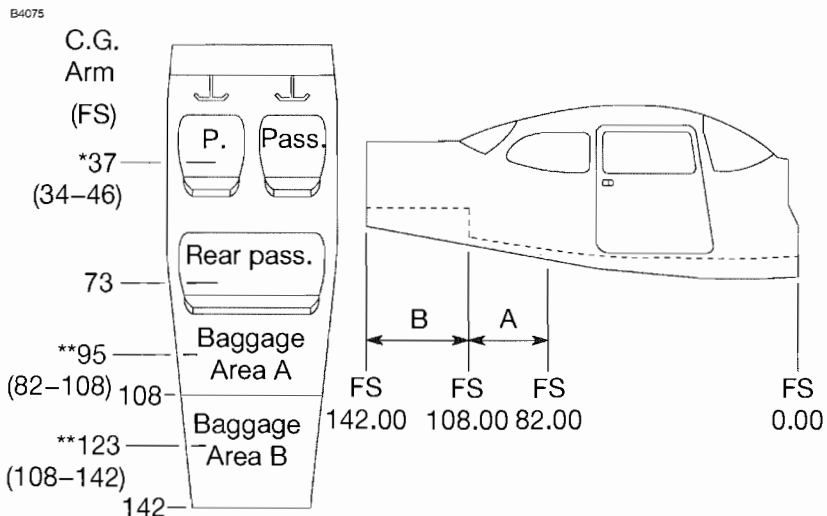
ITEM DESCRIPTION	WEIGHT AND MOMENT TABULATION			
	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs)	Moment (lb-ins/1000)	Weight (lbs)	Moment (lb-ins/1000)
1 - Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)	1642	62.6		
2 - Usable Fuel (At 6 Lbs./Gal.)				
- Standard Fuel - 53 Gallons Maximum				
- Reduced Fuel - 35 Gallons	210	10.1		
3 - Pilot and Front Passenger (FS 34 to 46)	340	12.6		
4 - Rear Passengers (FS 73)	310	22.6		
5 - *Baggage "A" (FS 82 to 108) 120 Pounds Maximum	56	5.3		
6 - *Baggage "B" (FS 108 to 142) 50 Pounds Maximum				
7 - RAMP WEIGHT AND MOMENT	2558	113.2		
8 - Fuel allowance for engine start, taxi and runup	-8.0	-0.4		
9 - TAKEOFF WEIGHT AND MOMENT (Subtract Step 8 from Step 7)	2550	112.8		

10 - Locate this point (2550 at 112.8) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.

*The maximum allowable combined weight capacity for baggage in areas "A" and "B" is 120 pounds.

Figure 6-3 (Sheet 1 of 2)

LOADING ARRANGEMENTS



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*Pilot and front seat passenger center of gravity on adjustable seats positioned for average occupant. Numbers in parentheses indicate forward and aft limits of occupant center of gravity range.

**Arm measured to the center of the areas shown.

NOTE

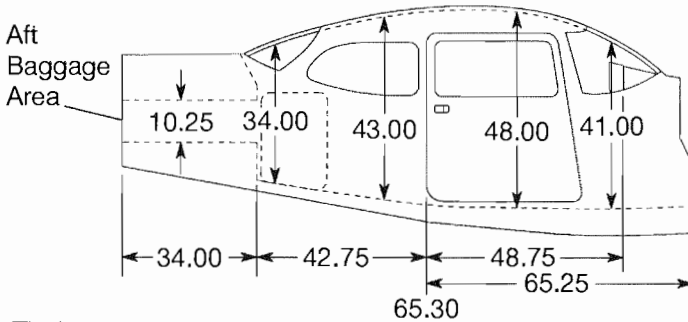
- The usable fuel C.G. arm is located at FS 48.00.
- The aft baggage wall (approximate FS 108.00) or aft baggage wall (approximate FS 142.00) can be used as a convenient interior reference point for determining the location of baggage area fuselage stations.
- To achieve an airplane loading within the utility category, it may be necessary to remove the rear passenger seat assembly from the airplane. Refer to Figure 6-9 for applicable weight and arm.

Figure 6-5

INTERNAL CABIN DIMENSIONS

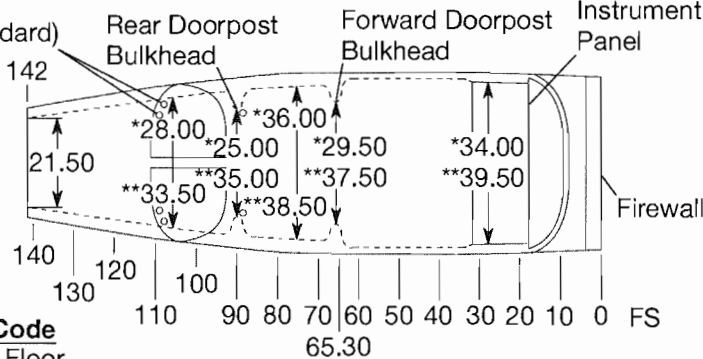
B4076

Cabin Height Measurements



Tiedown
Rings
(6 standard)

Cabin Width Measurements



Code

*Cabin Floor

**Lower Window Line

Door Opening Dimensions

	Width (Top)	Width (Bottom)	Height (Front)	Height (Rear)
Cabin Door	32.00	37.00	40.50	39.00
Baggage Door	15.25	15.25	22.00	21.00

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0585T1004

NOTE

- Maximum allowable floor loading is 200 pounds per square foot.
- All dimensions shown are in inches.

Figure 6-6

CENTER-OF-GRAVITY LIMITS

B4078

Airplane C.G. Location - Millimeters Aft of Datum (FS 0.0)

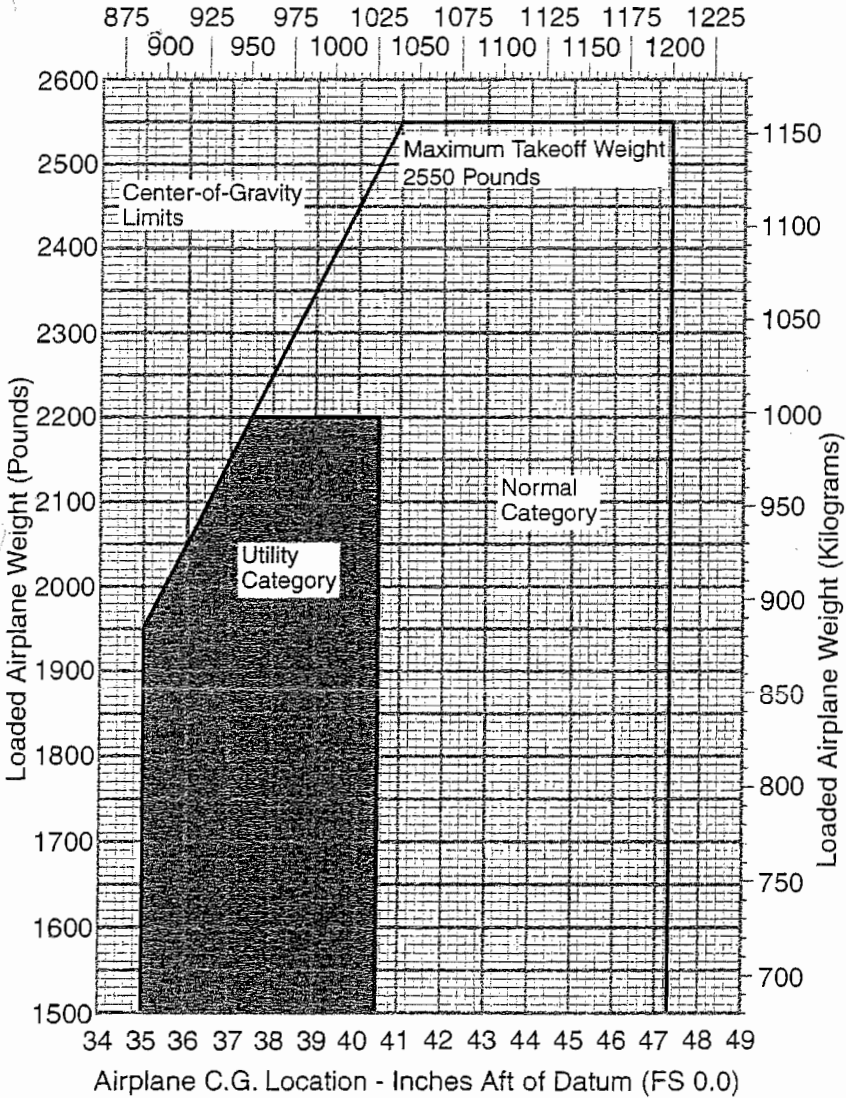


Figure 6-8

CENTER-OF-GRAVITY MOMENT ENVELOPE

B4077

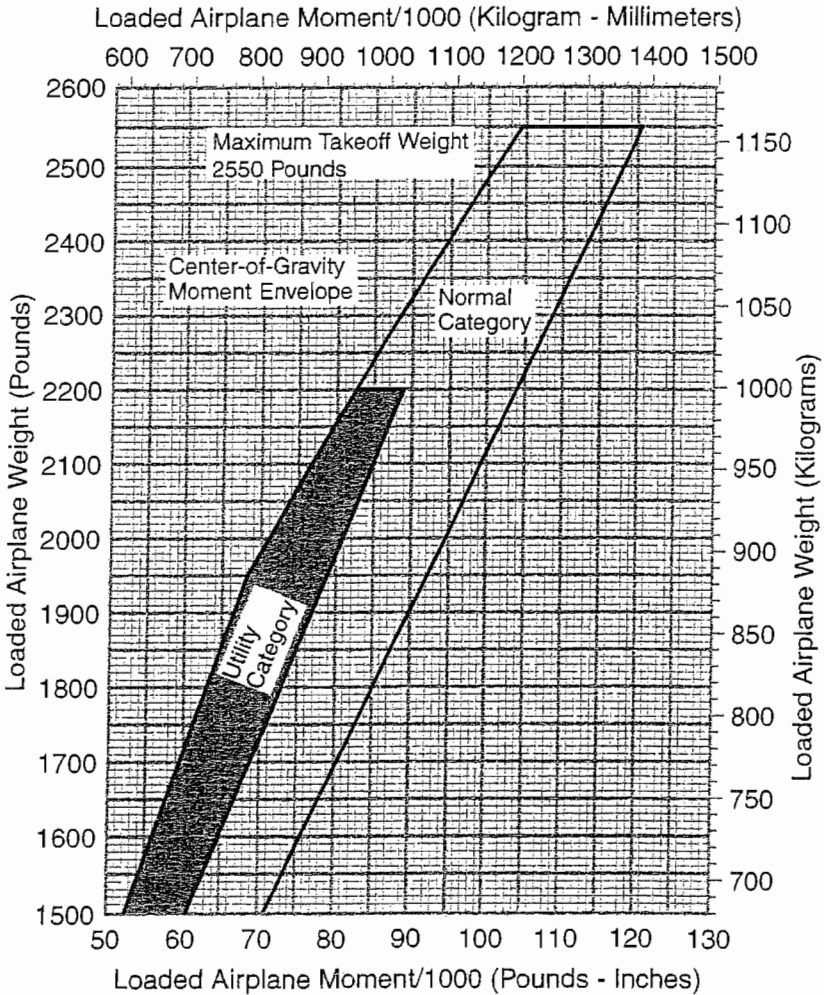


Figure 6-7

COMPREHENSIVE EQUIPMENT LIST

Figure 6-9 is a comprehensive list of all Cessna equipment which is available for the Model 172S airplane equipped with Garmin G1000 Integrated Cockpit System and GFC 700 Autopilot (if installed) (Serials 172S10468, 172S10507, 172S10640 and 172S10656 and On). This comprehensive equipment list provides the following information in column form:

In the **ITEM NO** column, each item is assigned a coded number. The first two digits of the code represent the identification of the item within Air Transport Association Specification 100 (11 for Paint and Placards; 24 for Electrical Power; 77 for Engine Indicating, etc.). These assignments also correspond to the Maintenance Manual chapter for the airplane. After the first two digits, items receive a unique sequence number (01, 02, 03, etc.). After the sequence number, a suffix letter is assigned to identify equipment as a required item, a standard item or an optional item.

Suffix letters are as follows:

- R = Required items or equipment for FAA certification (14 CFR 23 or 14 CFR 91).
- 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.

In the **EQUIPMENT LIST DESCRIPTION** column, each item is assigned a descriptive name to help identify its function.

In the **REF DRAWING** column, a Cessna drawing number is provided which corresponds to the item.

NOTE

If additional equipment is to be installed, it must be done in accordance with the reference drawing, service bulletin or a separate FAA approval.

In the **WT LBS** and **ARM INS** columns, information is provided on the weight (in pounds) and arm (in inches) of the equipment item.

NOTE

- Unless otherwise indicated, true values (not net change values) for the weight and arm are shown. Positive arms are distances aft of the airplane datum; negative arms are distances forward of the datum.
- Asterisks (*) in the weight and arm column indicate complete assembly installations. Some major components of the assembly are listed on the lines immediately following. The sum of these major components does not necessarily equal the complete assembly installation.

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS.
11 - PAINT AND PLACARDS				
11-01-S	PAINT, OVERALL WHITE WITH COLOR STRIPE - OVERALL WHITE COLOR - COLOR STRIPING	0500531	19.2* 18.4 0.8	95.4* 91.5 135.9
21 - AIR CONDITIONING				
21-01-S	VENTILATORS, ADJUSTABLE, CABIN AIR	0513575-2	1.7	60.0
21-02-S	CABIN HEATER SYSTEM, SHROUDED MUFFLER TYPE	0550365	2.5	-20.75
21-03-R	FORWARD AVIONICS COOLING FAN - MC24B3	3930379	0.5	12.7
21-04-R	AFT AVIONICS COOLING FAN	3940397	1.1	109.0
22 - AUTO FLIGHT				
22-01-O	GFC 700 AUTOPILOT - PITCH SERVO - PITCH TRIM SERVO - ROLL SERVO	 3940475 3940475 3940474	6.9 2.3 2.3 2.3	118.5 150.6 150.6 54.2
23 - COMMUNICATIONS				
23-01-S	STATIC DISCHARGE WICKS, (SET OF 10)	0501048-1	0.4	143.2
23-02-R	AUDIO/INTERCOM/MARKER BEACON - GMA 1347 AUDIO PANEL - CI-102 MARKER BEACON ANTENNA	 3930377 3960188	1.7 0.5	16.3 129.0
23-03-R	NAV/COM/GPS #1 COMPUTER - GIA 63W INTEGRATED AVIONICS UNIT - CI 2580-200 VHF COMM/GPS ANTENNA	 3921165 3940397 3960220	4.9 0.5	113.3 61.2
23-04-S	NAV/COM/GPS #2 COMPUTER - GIA 63W INTEGRATED AVIONICS UNIT - CI 2580-200 VHF COMM/GPS ANTENNA - CI 420-10 XM ANTENNA	 3921165 3940397 3960220 3960233	4.9 0.5 0.5	113.3 61.2 43.5
24 - ELECTRICAL POWER				
24-01-R	ALTERNATOR, 28 VOLT, 60 AMP, -9910591-11	0550365	10.0	-29.0
24-02-R	BATTERY, 24 VOLT, 8.0 AMP HOUR	0518034	23.2	-5.0
24-03-R	POWER DISTRIBUTION MODULE - S3100-366 - ALTERNATOR CONTROL UNIT - AC2101 - MASTER CONTACTOR - X61-0007 - STARTER CONTACTOR - X61-0027 - AMMETER TRANSDUCER - CS3200	 0518034 0518034 0518034 0518034 0518034	6.4* 0.2 0.7 0.7 0.1	-2.5* -2.5 -2.5 -2.5 -2.0
24-04-S	BATTERY, STANDBY - AVT 200413	0518025	14.0	11.2

Figure 6-9 (Sheet 1 of 6)

SECTION 6
WEIGHT AND BALANCE/
EQUIPMENT LIST

CESSNA
MODEL 172S NAV III
GFC 700 AFCS

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS.
25 - EQUIPMENT/FURNISHINGS				
25-01-R	SEAT, PILOT, ADJUSTABLE, CLOTH/VINYL COVER	0719025-1	33.8	41.5
25-02-O	SEAT, PILOT, ADJUSTABLE, LEATHER/VINYL COVER	0719025-4	34.3	41.5
25-03-S	SEAT, FRONT PASSENGER, ADJUSTABLE, CLOTH/VINYL COVER	0719025-1	33.8	41.5
25-04-O	SEAT, FRONT PASSENGER, ADJUSTABLE, LEATHER/VINYL COVER	0719025-4	34.3	41.5
25-05-S	SEAT, REAR PASSENGER, ONE-PIECE BACK, CLOTH/VINYL COVER	0719028-1	50.0	82.0
25-06-O	SEAT, REAR PASSENGER, ONE-PIECE BACK, LEATHER/VINYL COVER	0719028-2	51.0	82.0
25-07-R	SEAT BELT AND SHOULDER HARNESS, INERTIA REEL, AUTO ADJUST, PILOT AND FRONT PASSENGER	0519031-1	5.2	50.3
25-08-S	SEAT BELT AND SHOULDER HARNESS, INERTIA REEL, AUTO ADJUST, REAR SEAT	0519031-1	5.2	87.8
25-09-S	SUN VISOR (SET OF 2)	0514166-2	1.1	32.8
25-10-S	BAGGAGE RESTRAINT NET	2015009-7	0.5	95.0
25-11-S	CARGO TIEDOWN RINGS (SET OF 6)	0515055-6	0.2	95.0
25-12-S	TOW BAR, NOSE GEAR (STOWED)	0501019-1	1.7	124.0
25-13-R	PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL (STOWED IN FRONT PASSENGER'S SEAT BACK)	0500832-1	2.2	50.0
25-14-R	GARMIN G1000 COCKPIT REFERENCE GUIDE (STOWED IN COCKPIT SIDE PANEL POCKET)		1.5	15.0
25-15-O	APPROACH PLATE HOLDER	0715083-1	0.1	22.0
25-16-S	FUEL SAMPLING CUP (STOWED IN PILOT'S SEAT BACK)	S2107-1	0.1	50.0
25-17-S	ARTEX ME406 - 2 FREQUENCY ELT	3940458-1	2.6*	134.6*
	- ELT TRANSMITTER	ME406	2.1	135.5
	- ANTENNA AND CABLE ASSY	110-338	0.5	130.0
25-18-O	ARTEX C406-N - 3 FREQUENCY ELT	3940460-1	5.1*	135.0*
	- ELT TRANSMITTER	C406-N	4.6	135.5
	- ANTENNA AND CABLE ASSY	110-338	0.5	130.0

Figure 6-9 (Sheet 2)

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS.
37 - VACUUM				
37-01-R	ENGINE DRIVEN VACUUM PUMP - VACUUM PUMP - AA3215CC - COOLING SHROUD - FILTER - VACUUM REGULATOR	0501135 1201998-1 1201075-2 AA2H3-2	2.1 0.2 0.3 0.5	-5.0 -5.6 2.0 2.0
37-02-R	VACUUM TRANSDUCER - P165-5786	0501135	0.3	10.3
53 - FUSELAGE				
53-01-S	REFUELING STEPS AND HANDLE	0513415-2	1.7	16.3
56 - WINDOWS				
56-01-S	WINDOW, HINGED RIGHT SIDE (NET CHANGE)	0517001-40	2.3*	48.0
56-02-S	WINDOW, HINGED LEFT SIDE (NET CHANGE)	0517001-39	2.3*	48.0
61 - PROPELLER				
61-01-R	FIXED PITCH PROPELLER ASSEMBLY - MCCAULEY 76 INCH PROPELLER - MCCAULEY 3.5 INCH PROPELLER SPACER	0550320-18 IA170E/JHA7660 C5464	38.8* 35.0 3.6	-38.2* -38.4 -36.0
61-02-R	SPINNER INSTALLATION, PROPELLER - SPINNER DOME ASSEMBLY - FWD SPINNER BULKHEAD - AFT SPINNER BULKHEAD	0550320-11 0550236-14 0552231-1 0550321-10	1.8* 1.0 0.3 0.4	-41.0* -42.6 -40.8 -37.3
71 - POWERPLANT				
71-01-R	FILTER, INDUCTION AIR	0550365	0.3	-27.5
71-02-O	WINTERIZATION KIT INSTALLATION (STOWED) (INSTALLED ARM SHOWN) - BREATHER TUBE INSULATION - COWL INLET COVERS (INSTALLED) - COWL INLET COVERS (STOWED)	0501128-3 0552011 0552229-3, -4 0552229-3, -4	0.8* 0.4 0.3 0.3	-20.3* -13.8 -32.0 95.0
72 - ENGINES				
72-01-R	ENGINE, LYCOMING IO-360-L2A	0550365	297.8*	-18.6*

Figure 6-9 (Sheet 5)

SECTION 6
 WEIGHT AND BALANCE/
 EQUIPMENT LIST

CESSNA
 MODEL 172S NAV III
 GFC 700 AFCS

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS.
73 - ENGINE FUEL AND CONTROL				
73-01-R	FUEL FLOW TRANSDUCER - 680501K	0501168	0.8	-22.6
77 - ENGINE INDICATING				
77-01-R	ENGINE TACHOMETER SENSOR - 1A3C-2	0501168	0.2	-8.0
77-02-S	CYLINDER HEAD THERMOCOUPLES (ALL CYLINDERS) - 32DKWUE006F0126	0501168	0.2	-12.0
77-03-S	EXHAUST THERMOCOUPLES (ALL CYLINDERS) - 86317	0501168	0.3	-12.0
78 - EXHAUST				
78-01-R	EXHAUST SYSTEM	9954100-1	16.3*	-20.0*
	- MUFFLER AND TAILPIPE WELD ASSEMBLY	9954100-2	4.6	-22.7
	- SHROUD ASSEMBLY, MUFFLER HEATER	9954100-3	0.8	-22.7
79 - OIL				
79-01-R	OIL COOLER - 10877A	0550365	2.3	-11.0
79-02-R	OIL PRESSURE SENSOR - P165-5281	0550365	0.2	-12.9
79-03-R	OIL TEMPERATURE SENSOR - S2335-1	0550365	0.2	-8.5

Figure 6-9 (Sheet 6)

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS.
26 - FIRE PROTECTION				
26-01-S	FIRE EXTINGUISHER	0501011-2	5.3*	43.0*
	- FIRE EXTINGUISHER, HAND TYPE	A352GS	4.8	44.0
	- MOUNTING CLAMP AND HARDWARE	1290010-1	0.5	42.2
27 - FLIGHT CONTROLS				
27-01-S	DUAL CONTROLS, RIGHT SEAT	0506008-1	5.5*	12.4*
	- CONTROL WHEEL, COPILOT	0513576-4	2.6	26.0
	- RUDDER AND BRAKE PEDAL, COPILOT	0510402-16	1.1	6.8
27-02-A	RUDDER PEDAL EXTENSION (SET OF 2) (INSTALLED ARM SHOWN)	0501082-1	2.9	8.0
28 - FUEL				
28-01-R	AUXILIARY FUEL PUMP - 5100-00-4	0516015	1.9	9.5
28-02-R	FUEL SENDER - 76-207-3	0522644	0.9	47.4
30 - ICE AND RAIN PROTECTION				
30-01-S	PITOT HEAT	0523080	0.1	28.0
31 - INDICATING/RECORDING SYSTEM				
31-01-S	RECORDING HOURMETER - C664503-0103	0506009	0.5	16.1
31-02-R	PNEUMATIC STALL WARNING SYSTEM	0523112	0.4	28.5
31-03-R	GEA 71 ENGINE/AIRFRAME UNIT	3930377	2.2	11.4
31-04-R	GTP 59 OUTSIDE AIR TEMPERATURE (OAT) PROBE	0518006	0.1	41.5
32 - LANDING GEAR				
32-01-R	WHEEL BRAKE AND TIRE, 6.00 X 6 MAIN (2)	0541200-7, -8	34.4*	57.8*
	- WHEEL ASSY (EACH)	C163001-0104	6.2	58.2
	- BRAKE ASSY (EACH)	C163030-0111	1.8	54.5
	- TIRE, 6-PLY, 6.00 X 6, BLACKWALL (EACH)	C262003-0101	7.9	58.2
	- TUBE, (EACH)	C262023-0102	1.3	58.2
32-02-R	WHEEL AND TIRE ASSY, 5.00 X 5 NOSE	0543062-17	9.5*	-6.8*
	- WHEEL ASSY	1241156-12	3.5	-6.8
	- TIRE, 6-PLY, 5.00 X 5, BLACKWALL	C262003-0202	4.6	-6.8
	- TUBE	C262023-0101	1.4	-6.8
32-03-S	WHEEL FAIRING AND INSTALLATION	0541225-1	16.5*	48.1*
	- WHEEL FAIRING, NOSE	0543079-3	3.5	-3.5
	- WHEEL FAIRINGS, MAIN (SET OF 2)	0541223-1, -2	10.1	61.1
	- BRAKE FAIRINGS (SET OF 2)	0541224-1, -2	1.1	55.6
	- MOUNTING PLATE (SET OF 2)	0541220-1, -2	0.8	59.5

Figure 6-9 (Sheet 3)

SECTION 6
WEIGHT AND BALANCE/
EQUIPMENT LIST

CESSNA
MODEL 172S NAV III
GFC 700 AFCS

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS.
33 - LIGHTS				
33-01-S	MAP LIGHT IN CONTROL WHEEL	0706015	0.2	21.5
33-02-S	COURTESY LIGHTS UNDER WING	0521101-8	0.5	61.0
33-03-S	FLASHING BEACON	0506003-6	1.4	240.7
33-04-R	STROBE LIGHT	0723628	3.4	43.3
33-05-S	LANDING AND TAXI LIGHT	0523029-7	2.4	28.7
34 - NAVIGATION				
34-01-R	STANDBY AIRSPEED INDICATOR - S3325-6	0506009	0.7	16.2
34-02-R	STANDBY ATTITUDE INDICATOR - S3326-2	0501135	2.2	14.0
34-03-R	STANDBY ALTIMETER, SENSITIVE WITH 20 FOOT MARKINGS, INCHES OF MERCURY AND MILLBARS - S3827-1	0506009	0.9	14.0
34-04-S	ALTERNATE STATIC AIR SOURCE	0501017-1	0.2	15.5
34-05-R	COMPASS, MAGNETIC	0513262-3	0.5	18.0
34-06-R	TRANSPONDER	3940397		
	- GTX-33 TRANSPONDER	3910317	3.6	134.0
	- CI 105-16 TRANSPONDER ANTENNA	3960191	0.4	86.3
34-07-R	PFD DISPLAY	3930377		
	- GDU DISPLAY	3910317	6.3	16.4
34-08-R	MFD DISPLAY	3930377		
	- GDU DISPLAY	3910317	6.3	16.4
34-09-R	ATTITUDE HEADING REFERENCE SENSOR (AHRS)	3940397		
	- GRS 77 AHRS	3910317	2.4	134.0
	- GMU 44 MAGNETOMETER	3940398	0.4	52.7
34-10-R	AIR DATA COMPUTER	3940397		
	- GDC 74A AIR DATA COMPUTER	3910317	1.7	11.4
34-11-S	GDL-69A DATALINK	3940397	1.9	112.8
34-12-O	AUTOMATIC DIRECTION FINDER (ADF)			
	- KR 87 ADF RECEIVER	3930494	3.2	12.1
	- ADF ANTENNA	3960187	4.2	39.3
34-13-O	DISTANCE MEASURING EQUIPMENT (DME)			
	- KN 63 REMOTE DME	3940448	2.8	154.0
	- CI 105-16 DME ANTENNA	3960231	0.4	114.5

Figure 6-9 (Sheet 4)