

SECTION 6 WEIGHT & 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. A comprehensive list of all Cessna equipment available for this airplane is included at the back of this section.

It should be noted that specific information regarding the weight, arm, moment and installed equipment list for this airplane can only be found in the appropriate weight and balance records carried in the airplane.

AIRPLANE WEIGHING PROCEDURES

- (1) Preparation:
 - a. Inflate tires to recommended operating pressures.
 - b. Remove the fuel tank sump quick-drain fittings and fuel selector valve drain plug to drain all fuel.
 - c. Remove oil sump drain plug to drain all oil.
 - 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.
- (2) Leveling:
 - a. Place scales under each wheel (minimum scale capacity, 500 pounds nose, 1000 pounds each main).
 - b. Deflate the nose tire and/or lower or raise the nose strut to properly center the bubble in the level (see Figure 6-1).
- (3) Weighing:
 - a. With the airplane level and brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.
- (4) Measuring:
 - a. 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.
 - b. 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.

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H04-A	AVIONICS OPTION C1 (ITEM H40-A) DME INSTALLATION, NARCO RECEIVER (DME-190) MOUNTING BOX ANTENNA,	3910154-18 3910166-1	4.2 7.5*	26.6 18.5*
H07-A	CESSNA 400 GLIDESLOPE RECEIVER (R-443B)	UDA-3 3910119-2	0.6 0.2	11.3 86.1
H10-A-1	PANTRONICS PT-10A HF TRANSCEIVER (LOCATED-UPPER WINDSHIELD) CONSISTS OF RADIO COOLING HF POWER SUPPLY (REMOTE) ANTENNA LOAD BOX TRANSCEIVER (PANEL MOUNTED) ANTENNA INSTALLATION, 351 IN. LONG CABLE ASSEMBLIES HEADSET INSTALLATION MICROPHONE INSTALLATION AUDIO SWITCHING CONTROL NOISE FILTER (ALTERNATOR) SPEAKER ASSY	42100-0000 1200098-2 3910156-8 3930152-1 C582103-0201 C589502-0101 C582103-0102 0570400-616 3950122-15 3970125-4 3970124-1 3970124-1 0570400-737 C596504-0201 0570400-744	0.2 0.2 23.6*	86.1 82.6* 117.3 30.0 73.6*
H10-A-2	PANTRONICS PT-10A HF TRANSCEIVER 2ND UNIT TRANSCEIVER (PANEL MOUNTED) ANTENNA LOAD BOX HF POWER SUPPLY (REMOTE) NOISE FILTER, HIGH FREQ. SWITCHES & RELATED WIRES POWER & SIGNAL CABLES	3910156-9 C582103-0102 C589502-0101 C582103-0201 0570400-715 3970122-4	0.3 20.6*	37.9 6.4 87.3* 10.4 112.5 114.4
H10-A-3	SUNAIR ASB-125 HF TRANSCEIVER, 2ND UNIT ANTENNA LOAD BOX POWER SUPPLY (REMOTE) TRANSCEIVER (PANEL MOUNTED)	0570400-126 99816 99682 99680	22.4* 4.9 8.5	41.0 81.5* 112.0 114.0
H13-A	CESSNA 400 MARKER BEACON RECEIVER (R-402A) ANTENNA, L SHAPED ROD	3910142-2 42410-5114	2.3* 0.7	34.5* 11.8
H16-A	CESSNA 300 TRANSPONDER TRANSCEIVER (RT-359A) ANTENNA (A-109A)	0770681-1 3910127-17 41420-1114	0.7 4.8* 2.7	136.0 35.3* 11.1
H19-A	CESSNA 300 VHF TRANSCEIVER, 1ST UNIT TRANSCEIVER (RT-524A)	41530-0001 3910133-1 31390-1114	0.3 10.6* 5.7	126.0 16.1* 10.7

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	PARTIAL OPTION A-1 (MODIFIED) NOTE THIS UNIT USES OPTION A1 MODIFIED DELETE OMNI ANTENNA, OMNI CABLE & WIRING CHANGES AS NEEDED		4.9	22.4
H22-A-1	CESSNA 300 NAV/COM, 160 CH, FIRST UNIT WITH VOR/LOC RECEIVER-TRANSMITTER (RT-308C) VOR/LOC INDICATOR (IN-514B)	3910151-7 42450-1114 45010-1000	14.3* 6.4 0.6	31.5* 11.5 16.3
H22-A-2	AVIONICS OPTION A1 (ITEM H34-A) CESSNA 300 NAV/COM, 720 CH, FIRST UNIT WITH VOR/LOC RECEIVER-TRANSMITTER (RT-328T) VOR/LOC INDICATOR (IN-514B)	3910154-16 3910150-20 43340-1124 45010-1000	7.3 14.8* 6.9 0.6	50.3 30.8* 11.5 16.3
H22-A-3	AVIONICS OPTION A1 (ITEM H34-A) CESSNA 300 NAV/COM, 720 CH, FIRST UNIT WITH VOR/ILS RECEIVER-TRANSMITTER (RT-328T) VOR/ILS INDICATOR (IN-525B)	3910154-16 3910152-20 43340-1124 45010-2000	7.3 14.9* 6.9 0.7	50.3 30.7* 11.5 16.3
H22-A-4	AVIONICS OPTION A1 (ITEM H34-A) CESSNA 300 NAV/COM, 360 CH, FIRST UNIT WITH VOR/LOC (EXPORT ONLY) RECEIVER-TRANSMITTER (RT-528E-1) VOR/LOC INDICATOR (IN-514B)	3910154-16 3910150-13 42430-1124 45010-1000	7.3 14.9* 7.0 0.6	50.3 30.7* 11.5 16.3
H22-A-5	AVIONICS OPTION A1 (ITEM H34-A) CESSNA 300 NAV/COM, 360 CH, FIRST UNIT WITH VOR/ILS (EXPORT ONLY) RECEIVER-TRANSMITTER (RT-528E-1) VOR/ILS INDICATOR (IN525B)	3910154-16 3910152-13 42430-1124 45010-2000	7.3 15.0* 7.0 0.7	50.3 30.6* 11.5 16.3
H25-A-1	AVIONICS OPTION A1 (ITEM H34-A) CESSNA 300 NAV/COM, 160 CH, SECOND UNIT WITH VOR/LOC RECEIVER-TRANSMITTER (RT-308C) VOR/LOC INDICATOR (IN-514B)	3910154-16 3910151-8 42450-1114 45010-1000	7.3 9.9* 6.4 0.6	50.3 14.3* 11.5 16.3
H25-A-2	AVIONICS OPTION B1 (ITEM H37-A) CESSNA 300 NAV/COM, 720 CH, SECOND UNIT WITH VOR/LOC RECEIVER-TRANSMITTER (RT-328T) VOR/LOC INDICATOR (IN-514B)	3910154-17 3910150-21 43340-1124 45010-1000	2.9 10.4* 6.9 0.6	20.1 14.2* 11.5 16.3
H25-A-3	AVIONICS OPTION B1 (ITEM H37-A) CESSNA 300 NAV/COM, 360 CH, SECOND UNIT WITH VOR/LOC (EXPORT ONLY)	3910154-17 3910150-14 3910154-17	2.9 10.5* 2.9	20.1 14.2* 20.1

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H28-A-1	RECEIVER-TRANSMITTER (RT-528E-1)	42430-1124	7.0	11.5
	VOR/LOC INDICATOR (IN-5148)	45010-1000	0.6	16.3
	AVIONICS OPTION B1 (ITEM H37-A)	3910154-17	2.9	20.1
	EMERGENCY LOCATOR TRANSMITTER	0401008-2	2.0*	116.6*
H28-A-2	TRANSMITTER (LEIGH SHARC 7)	C589510-0209	1.8	116.4
	ANTENNA	C589510-0203	0.1	122.0
H31-A-1	EMERGENCY LOCATOR TRANSMITTER (USED IN CANADA)	0401008-5	1.8*	116.6*
	TRANSMITTER	C589510-0212	1.6	116.4
H31-A-2	ANTENNA	C589510-0107	0.1	122.0
	NAV-O-MATIC 200A ON SKYHAWK OR SKYHAWK II	3910140-24	11.7*	51.9*
	CONTROLLER & MOUNT (CA-295B)	3930144-6	1.6	13.1
	TURN COORDINATOR (NET CHNG) (G-300A)	42320-0014	0.6	12.0
H31-A-2	WING INSTALLATION	0522632-1	8.0*	68.3*
	SERVO UNIT (PA-295B)	42330	5.8	68.9
	NAV-O-MATIC 300A (AF395)	3910141	13.4*	46.5*
	CONTROLLER-AMPLIFIER & MOUNT (CA-395A)	0513398	1.8	13.1
H34-A	GYRO INSTALLATION (D64-A-2)(NET CHNG)	42320-0014	1.1	10.2
	TURN COORDINATOR (NET CHANGE)	42320-0014	0.6	12.0
	WING INSTALLATION	0522632-1	8.0*	68.3*
	SERVO UNIT (PA-295B)	42330	5.8	68.9
	RELAY INSTALLATION	3940151-1	0.4	4.0
	AVIONICS OPTION A1 NAV/COM PROVISIONS	3910154-16	7.3*	50.3*
	HEADPHONE INSTALLATION	3970125-4	0.2	14.2
	MICROPHONE INSTALLATION (HAND HELD)	3970124-1	0.3	17.2
	AUDIO SWITCHING PANEL	3970121-1	0.4	13.3
	SPEAKER INSTALLATION	390123-2	1.2	37.9
	SPLIT BUS BAR & RELAY	0570400-744	0.3	6.4
	1ST UNIT PARTIAL WIRING & MOUNT	3930146-15	1.5	10.7
H37-A	RADIO COOLING	3930152-1	1.1	10.2
	NOISE FILTER (AUDIO)(ON ALTERNATOR)	3940148-1	0.1	-26.1
	COMMUNICATION ANTENNA CABLE (CO-AX)	3950122-3	0.4	27.8
	OMNI ANTENNA CABLE	3950122-4	0.6	116.0
	OMNI ANTENNA INSTALLATION	3960102-10	0.8	220.8
	COMMUNICATIONS SPIKE ANTENNA INSTL.	3960113-1	0.4	62.4
	AVIONICS OPTION B1 NAV/COM PROV.	3910154-17	2.9*	20.1*
	RADIO SWITCHING	3970122-4	0.4	12.0
	2ND UNIT NAV/COM PARTIAL	3930146-2	1.5	10.7
	COM ANT CABLE-R.H SIDE	3950122-2	0.4	27.8
	OMNI ANTENNA COUPLER (SIGNAL SPLITTER)	3960111-1	0.2	7.0
	COM ANT. INSTL. R.H SIDE	3960113-2	0.4	62.4

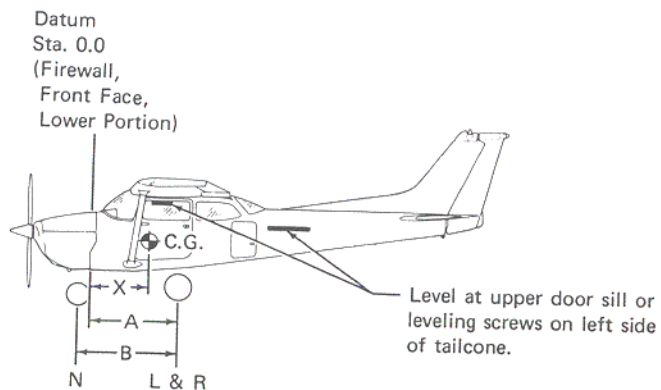
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H40-A	AVIONICS OPTION C1 - ADF PROVISIONS	3910154-18	4.2*	26.6*
	SENSE ANTENNA INSTALLATION	0570400-632	0.2	108.6
	LOOP ANTENNA INSTALLATION	3960104-1	1.4	39.3
	SWITCHING SYSTEM	3970122-5	0.4	12.0
H43-A	RECEIVER PARTIAL INCL. CABLE ASSYS.	0522632-2	2.2	13.7
	AVIONICS OPTION D NAV-O-MATIC WING PROV.	0522632-2	1.7	68.2
H55-A	MIKE-HEADSET COMBO. INSTL (HEADSET STOWED) (STOWED ARM SHOWN)(INCLUDES ALL PURPOSE CONTROL WHEEL)	3970112-1	0.3	13.0
J. SPECIAL OPTION PACKAGES				
J01-A	SKYHAWK II EQUIPMENT CONSISTS OF ITEMS	0500505	24.7*	47.8*
	D01-O TRUE AIRSPEED IND.(NET CHANGE)	0513236	0.1	16.7
	C16-O HEATED PITOT SYSTEM	0422355	0.6	24.4
	E85-A DUAL CONTROLS	0513335	4.9	12.4
	C40-A NAV LIGHT DETECTORS	0701013	NEG	-
	C31-A COURTESY LIGHTS	0521101	0.5	61.0
	C43-A FLASHING BEACON LIGHT	0506003	2.1	184.2
	D04-A STATIC ALTERNATE AIR SOURCE	0501017	0.2	15.5
	H28-A EMERGENCY LOCATOR XMTR (ELT)	0401008	2.0	116.6
	G25-O SKYHAWK II PAINT (NET CHANGE)	0504030	0.0	-
	H22-A-1 NAV/COM 308C VOR/LOC	3910151-7	14.3	31.5
	J04-A	NAV-PAC INSTALLATION (SKYHAWK II ONLY)	3910138-1	22.6*
328T NAV/COM, VOR/LOC 1ST UNIT			14.8	30.8
308C NAV/COM 1ST UNIT (DELETED)			-14.3	31.5
308C NAV/COM VOR/LOC 2ND UNIT (ADD)			9.9	14.3
J10-A	300 ADF (546E)		7.4	20.6
	300 TRANSPONDER (RT-359)		4.8	35.3
J13-A	FLOATPLANE FUSELAGE STRUCTURAL MODIFICATIONS & FITTINGS (OPTION C)	0500083	6.1	45.5
J15-A	FLOATPLANE COWLDECK V BRACE (INSTALLED)	0513003	1.1	26.2
	(STOWED)		1.1	95.0
J27-A	FLOATPLANE AILERON-RUDDER INTERCONNECT	0560012	0.4	69.6
	FLOATPLANE ONLY (INSTALLED) (STOWED)		0.4	95.0
ITEMS J10-A & J13-A ARE ALSO APPROVED FOR LANDPLANE OPERATIONS.				
J27-A	MODEL 89A2000 FLOATS & 502 ATTACHMENTS	EDO-36335	274.0	42.5
ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS

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Scale Position	Scale Reading	Tare	Symbol	Net Weight
Left Wheel			L	
Right Wheel			R	
Nose Wheel			N	
Sum of Net Weights (As Weighed)			W	

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

Item	Weight (Lbs.)	X C.G. Arm (In.)	Moment/1000 (Lbs.-In.)
Airplane Weight (From Item 5, page 6-5)			
Add Oil:			
No Oil Filter (8 Qts at 7.5 Lbs/Gal)		-14.0	
With Oil Filter (9 Qts at 7.5 Lbs/Gal)		-14.0	
Add Unusable Fuel:			
Std. Tanks (4 Gal at 6 Lbs/Gal)		46.0	
L.R. Tanks (4 Gal at 6 Lbs/Gal)		46.0	
Equipment Changes			
Airplane Basic Empty Weight			

Figure 6-1. Sample Airplane Weighing

- (5) Using weights from (3) and measurements from (4) the airplane weight and C. G. can be determined.
- (6) Basic Empty Weight may be determined by completing Figure 6-1.

WEIGHT AND BALANCE

The following information will enable you to operate your Cessna within the prescribed weight and center of gravity limitations. To figure weight and balance, use the Sample Problem, Loading Graph, and Center of Gravity Moment Envelope as follows:

Take the basic empty weight and moment from appropriate weight and balance records carried in your airplane, and enter them in the column titled YOUR AIRPLANE on the Sample Loading Problem.

NOTE

In addition to the basic empty weight and moment noted on these records, the c. g. arm (fuselage station) 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 for these items to indicate their forward and aft c. g. range limitations (seat travel and baggage area limitation.). Additional moment calculations, based on the actual weight and c. g. arm (fuselage station) of the item being loaded, must be made if the position of the load is different from that shown on the Loading Graph.

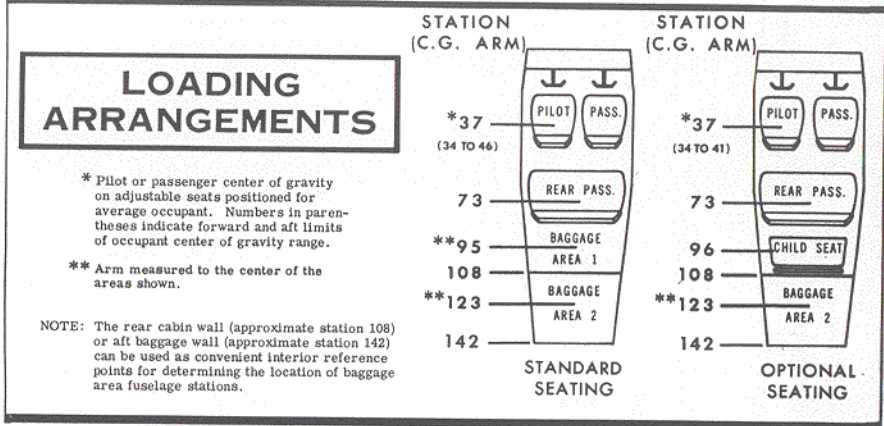
SAMPLE WEIGHT AND BALANCE RECORD

(Continuous History of Changes in Structure or Equipment Affecting Weight and Balance)

AIRPLANE MODEL	ITEM NO.		DATE	DESCRIPTION OF ARTICLE OR MODIFICATION	WEIGHT CHANGE				PAGE NUMBER			
					ADDED (+)		REMOVED (-)		Running Basic Empty Weight			
					Wt. (lb.)	Arm (In.)	Moment /1000	Wt. (lb.)			Arm (In.)	Moment /1000

Figure 6-2. Sample Weight and Balance Record

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.



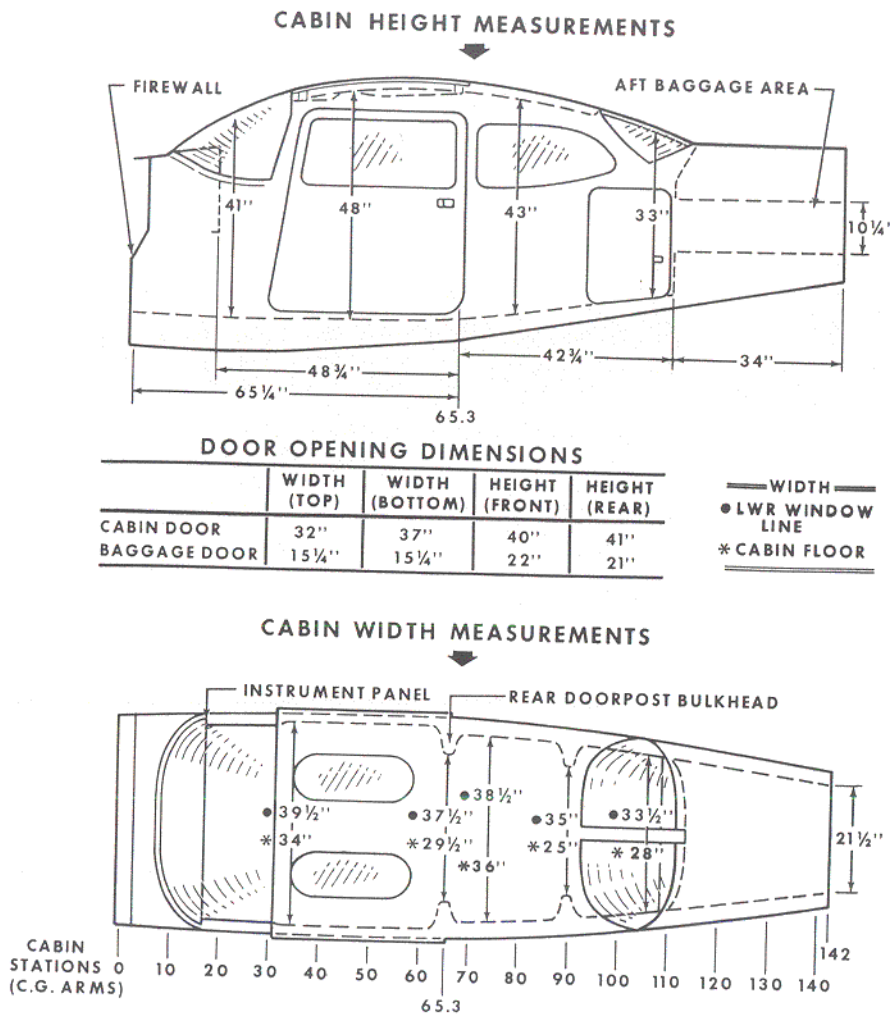


Figure 6-4. Internal Cabin Dimensions

39.17 Area

SAMPLE AIRPLANE	YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb. - ins. /1000)
Weight (lbs.)	1450.1 1474.3 1392	56.9 57.7
Moment (lb. - ins. /1000)	54.6	10.9
Basic Empty Weight	228	12.6
Usable Fuel (At 6 Lbs./Gal.)	340	24.8
Standard Tanks (38 Gal. Maximum)		
Long Range Tanks (48 Gal. Maximum)		
Pilot and Front Passenger (Station 34 to 46)		
Rear Passengers		
Baggage Area 1 or Passenger on Child's Seat (Station 82 to 108) 120 Lbs. Max.		
Baggage Area 2 (Station 108 to 142) 50 Lbs. Max.		
TOTAL WEIGHT AND MOMENT	2300	102.9

1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)

2. Usable Fuel (At 6 Lbs./Gal.)
Standard Tanks (38 Gal. Maximum)

3. Pilot and Front Passenger (Station 34 to 46)

4. Rear Passengers

5. * Baggage Area 1 or Passenger on Child's Seat (Station 82 to 108) 120 Lbs. Max.

6. * Baggage Area 2 (Station 108 to 142) 50 Lbs. Max.

7. **TOTAL WEIGHT AND MOMENT**

8. 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.

Figure 6-5. Sample Loading Problem

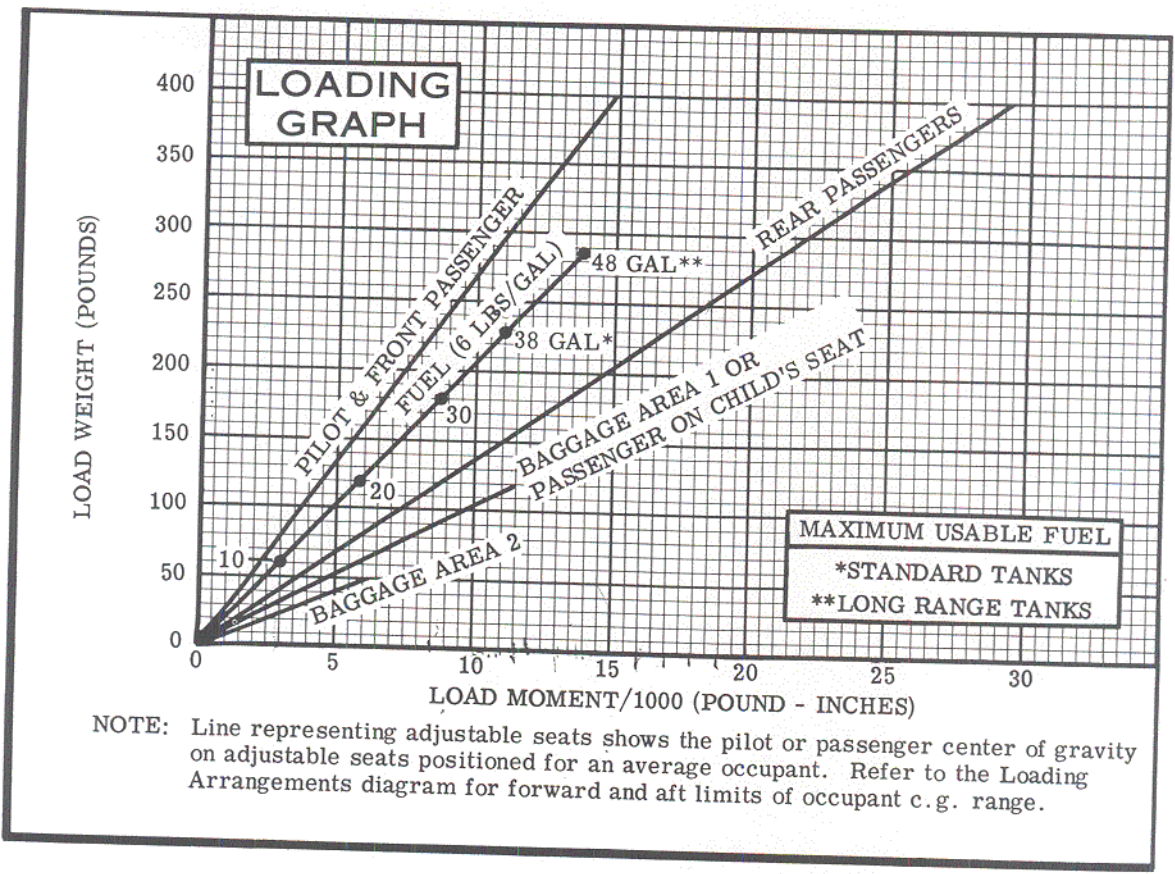


Figure 6-6. Loading Graph

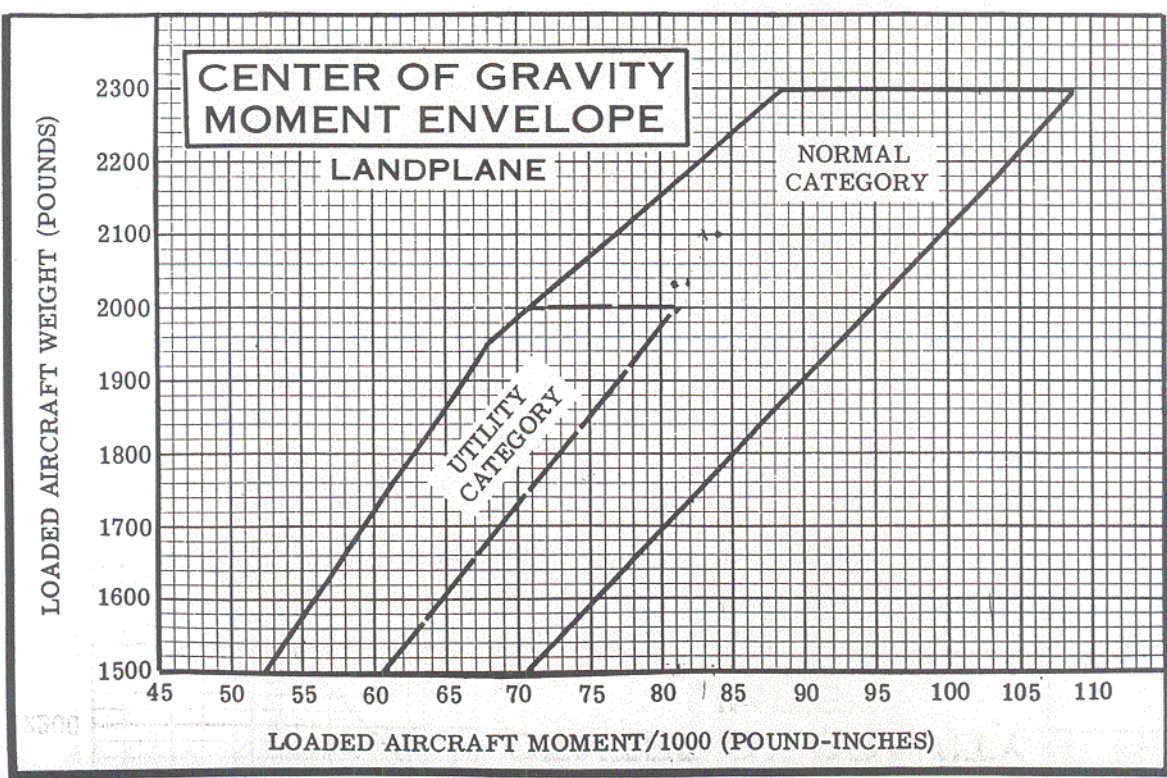


Figure 6-7. Center of Gravity Moment Envelope

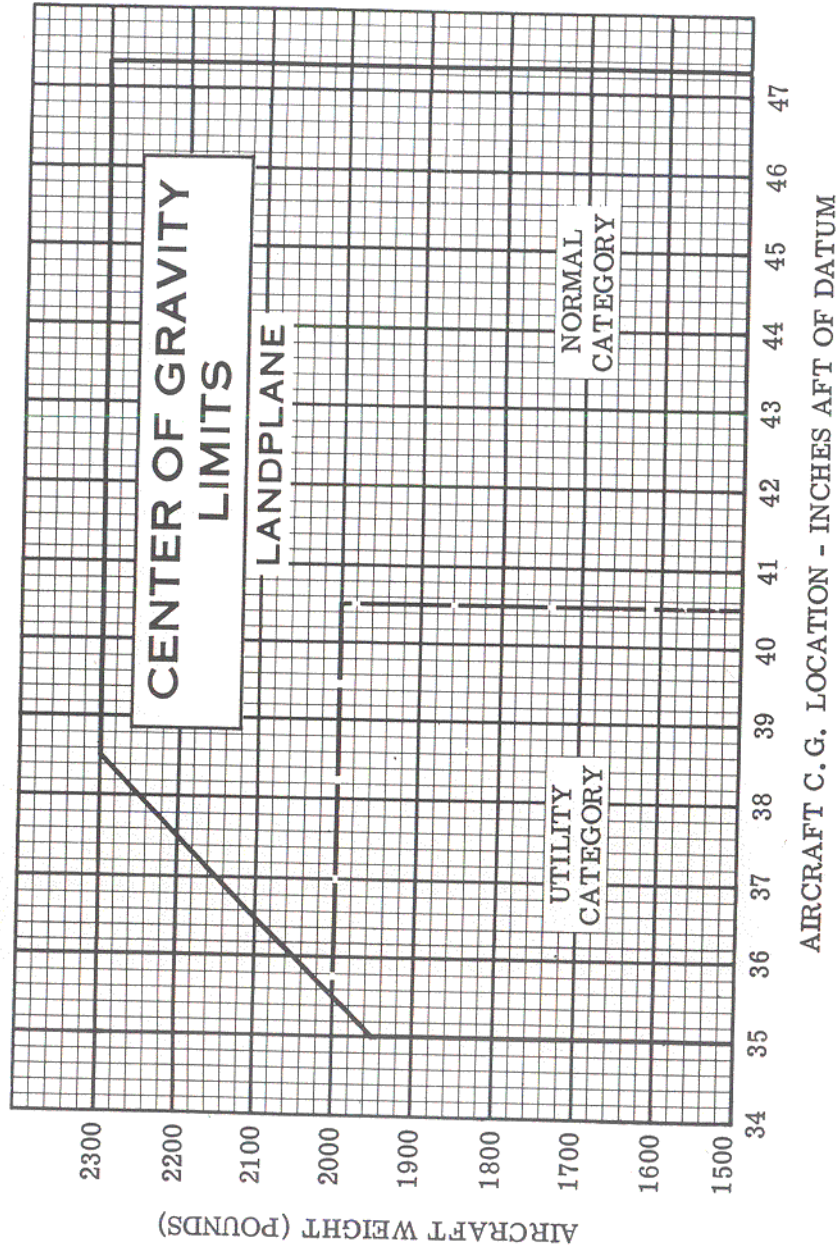


Figure 6-8. Center of Gravity Limits

EQUIPMENT LIST

The following equipment list is a comprehensive list of all Cessna equipment available for this airplane. A separate equipment list of items installed in your specific airplane is provided in your aircraft file. The following list and the specific list for your airplane have a similar order of listing.

This equipment list provides the following information:

An item number gives the identification number for the item. Each number is prefixed with a letter which identifies the descriptive grouping (example: A. Powerplant & Accessories) under which it is listed. Suffix letters identify the equipment as a required item, a standard item or an optional item. Suffix letters are as follows:

- 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

A reference drawing column provides the drawing number for the item.

NOTE

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

Columns showing weight (in pounds) and arm (in inches) provide the weight and center of gravity location for the equipment.

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.

NOTE

Asterisks (*) after the item weight and arm indicate complete assembly installations. 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	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
A. POWERPLANT & ACCESSORIES				
A01-R	ENGINE, LYCOMING O-320-E2D (INCLUDES ALL ELECTRIC STARTER AND VACUUM PAD)	0550319	266.0*	-20.0*
A05-R	FILTER, CARBURETOR AIR	C294510-0301	0.5	-26.0
A09-R	ALTERNATOR 14 VOLT, 60 AMP (BELT DRIVE)	C611501-0102	10.8	-29.0*
A17-R	OIL COOLER INSTALLATION	0550319	2.5*	-25.5*
	OIL COOLER (HARRISON OR STEWART WARNER)	8526250	2.1	-25.5*
A21-A	FILTER INSTALLATION, FULL FLOW ENGINE OIL ADAPTOR ASSY (LYCOMING)	8406E	4.5*	-15.0*
	FILTER CAN ASSY (AC)	1756004-1	0.8	-6.5*
	FILTER ELEMENT KIT (AC)	755288	1.8	-3.3*
A33-R	PROPELLER ASSY. (FIXED PITCH-LANDPLANE)	6436992	0.3	-3.3*
	PROPELLER (MCCAULEY)	6435683	35.9*	-38.5*
A33-O	3.5 INCH PROP SPACER ADAPTOR (MCCAULEY)	C161001-0306	30.1	-39.1*
	PROPELLER ASSY. (FIXED PITCH-FLOATPLANE)	IC160/DTM7553	3.6	-35.4*
	PROPELLER (MCCAULEY)	C4516	37.2*	-38.6*
A41-R	3.5 INCH PROP SPACER ADAPTOR (MCCAULEY)	C161001-0307	31.5*	-39.1*
	SPINNER INSTALLATION, PROPELLER	1A175/ETM8042	3.6	-35.4*
	SPINNER DOME	C4516	2.0*	-41.4*
	FWD SPINNER BULKHEAD	0550320	1.2	-43.1
	AFT SPINNER BULKHEAD	0550236-8	0.3	-40.8
A61-S	VACUUM SYSTEM INSTALLATION	0550321-4	0.4	-37.3
	DRY VACUUM PUMP (AV WT OF 4 TYPES)	0550321-1	2.3*	-3.0*
	FILTER	0501055-2	4.8	-6.3
	VACUUM GAUGE	C431003-	0.2	4.7
	RELIEF VALVE-REGULATOR	C294502-0101	0.1	16.2
A70-A	PRIMER SYSTEM, ENGINE THREE CYLINDER	C688509-0101	0.5	4.5
A73-A	OIL QUICK DRAIN VALVE (NET CHANGE)	C482001-0401	0.5	-12.0
		1701015	0.0	-
		1701015	0.0	-

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B. LANDING GEAR & ACCESSORIES				
B01-R	WHEEL, BRAKE & TIRE ASSY, 6.00X6 MAIN (2)	C163015-0201 OR	41.7*	57.8*
	WHEEL ASSY., MCCAULEY D30260 (EACH)	C163015-0206		
	BRAKE ASSY., MCCAULEY (LEFT)	C163003-0101 OR	6.4	58.2
	BRAKE ASSY., MCCAULEY (RIGHT)	C163015-0102	1.9	54.5
	TIRE, 4-PLY BLACKWALL (EACH)	C163032-0111	1.9	54.5
	TUBE (EACH)	C163032-0112	8.5	58.2
B04-R	WHEEL & TIRE ASS., 5.00X5 NOSE	C262003-0101	1.8	58.2
	WHEEL ASSY., MCCAULEY	C262023-0102	9.3*	-6.8*
	TIRE, 4-PLY BLACKWALL	C163015-0109	3.0	-6.8
	TUBE	C163003-0401	3.0	-6.8
B10-S	FAIRING INSTALLATION, WHEEL (SET OF 3)	C262003-0102	4.7	-6.8
	NOSE WHEEL FAIRING	C262023-0101	1.2	47.1*
	MAIN WHEEL FAIRING (EACH)	0541225-1	17.8*	-4.9
			5.7	60.3
C. ELECTRICAL SYSTEM				
C01-R	BATTERY, 12 VOLT, 25 AMP HOUR	0511319	23.0	0.0
C04-R	REGULATOR, 14 VOLT, 60 AMP ALTERNATOR	C611001-0201	0.5	3.5
C07-A	GROUND SERVICE PLUG RECEPTACLE	0501053	2.7	-2.6
C16-O	HEATING SYSTEM, PITOT (NET CHANGE)	0422355	0.6	24.4
C22-A	LIGHTS, INSTRUMENT POST	0513094	0.5	16.5
C25-A	LIGHT, MAP (CONTROL WHEEL MOUNTED)	0570087	0.2	21.5
C28-S	LIGHT, MAP & INSTRUMENT PANEL FLOOD (DOORPOST MOUNTED)	0700149	0.3	32.0
C31-A	LIGHTS, COURTESY ENTRANCE (SET OF 2)	0521101	0.5	61.0
C40-A	DETECTORS, NAVIGATION LIGHT (SET OF 2)	0701013-1, -2	NEGL	-
C43-A	LIGHT INSTALLATION, OMNIFLASH BEACON	0506003	2.1*	184.2*
	BEACON LIGHT ON FIN TIP	C621001-0103	2.4*	205.8
	FLASHER POWER SUPPLY	C594502-0101	0.3*	208.1
	RESISTOR (MEMCOR)	OR95-1.5	0.1*	43.3*
C46-A	LIGHT INSTALLATION, WING TIP STROBE	0501027	2.3*	47.0
	FLASHER POWER SUPPLY (SET OF 2 IN WING)	C622007-0101		

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
C49-S	STROBE LIGHT, WING TIP (SET OF 2)	C622006	0.2	43.5
	LIGHT INSTALLATION, COWL MOUNTED LANDING	0501016	1.9*	-27.1*
	LAMP, 250 WATT (G.E.)	4522	0.8	-29.0
C49-O	LIGHTS, DUAL COWL MOUNTED LANDING	0552141	3.2*	-23.0*
	LAMP, 250 WATT (G.E.) (EACH)	4509	0.5	-29.0
D. INSTRUMENTS				
D01-R	INDICATOR, AIRSPEED	C661064-0102	0.6	16.2
D01-O	INDICATOR, TRUE AIRSPEED	0513279	0.7	16.3
D04-A	STATIC AIR ALTERNATE SOURCE	0501017	0.2	15.5
D07-R	ALTIMETER (SENSITIVE)	C661071-0101	1.0	14.0
D07-O-1	ALTIMETER (SENSITIVE) FEET & MILLIBARS	C661071-0102	1.0	14.0
D07-O-2	ALTIMETER (SENSITIVE) 20FT. MARKINGS	C661025-0102	1.0	14.0
D10-A	ALTIMETER, 2ND UNIT INSTALLATION (DUAL)	2001015	1.0	14.5
D16-A-1	ENCODING ALTIMETER (REQUIRES RELOCATION OF REGULAR ALTIMETER)	0501049	3.0	14.0
D16-A-2	ENCODING ALTIMETER, FEET & MILLIBARS (REQUIRES RELOCATION OF REGULAR ALTIMETER)	0501049	3.0	14.0
D19-R	AMMETER	S-1320-5	0.3	16.5
D22-A	GAGE, CARBURETOR AIR TEMPERATURE	0513339	1.0	14.0
D25-S	CLOCK, ELECTRIC	C664508-0101	0.4	16.3
D28-R	COMPASS, MAGNETIC-INSTALLATION	0513262-1	0.5	14.0
D38-R	INSTRUMENT CLUSTER, LH & RH FUEL QUANTITY	C669511-0102	0.5	16.5
D41-R	INSTRUMENT CLUSTER, OIL PRESS, OIL TEMP.	C669512-0102	0.5	16.5
D64-S	GYROS, ATTITUDE & DIRECTIONAL INDICATORS (NON-NAV-O-MATIC)	0501054-1	5.8*	14.0*
	DIRECTIONAL INDICATOR (AV. OF 4)	C661075	2.7	13.2
	ATTITUDE INDICATOR (AV. OF 3)	C661076	2.2	13.4
D64-O-1	GYRO INSTALLATION (SIMILAR TO D64-S EXCEPT DIRECTIONAL INDICATOR HAS A MOVEABLE HEADING POINTER)(INDICATOR NET CHANGE)	1201126-1	6.3*	13.9*
			0.5	13.2
D64-O-2	GYRO INSTALLATION FOR 300A NAV-O-MATIC DIRECTIONAL INDICATOR (ARC)	0501054-2	6.9*	13.4*
D67-A	RECORDER INSTALLATION, FLIGHT HOUR	40760	3.3	13.3
D82-S	GAGE, OUTSIDE AIR TEMPERATURE	0501052	0.8	12.3
D85-R	TACHOMETER INSTALLATION, ENGINE	C668507-0101	0.1	28.6
	RECORDING TACH INDICATOR (SW 551-RB)	0506004	1.0*	12.1*
		C668020-0102	0.7	16.0
	<i>AstroTech LC2 Chronometer</i>		.3	14.0

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
D88-S	FLEXIBLE TACH SHAFT (ASES 1605-31)	S-1605-8	0.3	3.0
D88-O-1	INDICATOR, TURN COORDINATOR	C661003-0504	1.3	15.8
	INDICATOR, TURN COORDINATOR (FOR USE WITH NAV-O-MATIC 200A AND 300A)	42320-0014	1.9	14.6
D88-O-2	INDICATOR, TURN & BANK (NOT COMPATIBLE WITH NAV-O-MATIC)	S-1413N2	2.0	14.5
D91-S	INDICATOR, RATE OF CLIMB	C661080-0101	1.0	14.9
E. CABIN ACCOMMODATIONS				
E02-S	ARM RESTS - 2ND ROW (SET OF 2)	0715039	1.5	72.5
E05-R	SEAT, ADJUSTABLE FORE & AFT - PILOT		12.6	44.0
E05-O	SEAT, INFINITE ADJUSTABLE - PILOT		23.0	41.5
E07-S	SEAT, ADJUSTABLE FORE & AFT- CO-PILOT		12.6	44.0
E07-O	SEAT, INFINITE ADJUSTABLE - CO-PILOT		23.0	41.5
E09-S	SEAT, REAR (ONE PIECE BACK CUSHION)		22.0	79.5
E09-O	SEAT, REAR (TWO PIECE BACK CUSHION)		23.0	79.5
E11-A	SEAT INSTALLATION, CHILDS FOLD AWAY LAP BELT ASSY	0501009	8.4*	101.1*
	SEAT ASSY	S-1746-5	0.8	100.8
E15-R	PILOT LAP BELT ASSY	0714005-1	6.7	100.8
E15-S	SHOULDER HARNESS ASSY, PILOT	S2240-103	1.0	37.0
E15-O	BELT & SHOULDER HARNESS, PILOT (FOR AUSTRALIA, NET CHANGE)	S2240-201	0.6	37.0
E19-O	SHOULDER HARNESS INERTIA REEL INSTALLATION PILOT & CO-PILOT - REPLACES STD BELTS AND HARNESS (NET CHANGE)	S2240-3VH	0.0	-
E23-S	BELT & SHOULDER ASSY - CO-PILOT	0501046-1	2.0	82.0
E23-O	BELT & SHOULDER HARNESS ASSY, CO-PILOT (FOR AUSTRALIA, NET CHANGE)	S2240-3	1.6	37.0
		S2240-3VH	0.0	-
E27-S	BELT ASSY, 2ND ROW (SET OF 2)	S1746-13	2.0	70.0
E27-O-1	BELT & SHOULDER HARNESS ASSY, 2ND ROW, SET OF 2	S2240-8	3.2	70.0
E27-O-2	BELT & SHOULDER HARNESS ASSY, 2ND ROW (FOR AUSTRALIA)	S2240-8VH	3.2	70.0
E35-A	LEATHER SEAT COVERING (NET CHANGE)	CES-1151	2.0	62.0
E37-A	WINDOW, HINGED, RH DOOR (NET CHANGE)	0511803	2.3	47.0
E39-A	WINDOWS, OVERHEAD CABIN TOP (NET CHANGE)	0511800	0.9	47.9
E43-A	VENTILATION SYSTEM, REAR SEAT	0501026	1.5	60.0
ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
E49-A	BEVERAGE CUP HOLDER			
E50-A	HEADREST, 1ST ROW (WT EACH)	0501023	0.1	15.0
E51-A	HEADREST, 2ND ROW (WT EACH)	1215073-11	0.7	47.0
E53-A	MIRROR, REAR VIEW	1215073-11	0.7	86.0
E55-S	SUN VISORS (SET OF 2)	0500312	0.9	15.9
E57-A	WINDOWS, TINTED FRONT, SIDE & REAR (NET CHANGE)	0500040	0.0	32.8
E65-S	BAGGAGE NET	0500267	0.0	-
E71-A	RINGS, CARGO TIE-DOWN (STOWED) (USE ARM AS INSTALLED WITH CARGO)	2015009	0.5	95.0
E75-A	STRETCHER INSTALLATION - BOXED (USE ACTUAL WEIGHT AND ARM CHANGE)	0500042	1.0	-
E85-A	CONTROLS INSTALLATION, DUAL	0700164-4	-	-
E93-R	HEATING SYSTEM, CABIN & CARBURETOR AIR (INCLUDES EXHAUST SYSTEM)	0513335 0550319 0506004	4.9 17.5	12.4 -21.0
F. PLACARDS & WARNING				
F01-R	PLACARD, OPERATIONAL LIMITATIONS-DAY VFR			
F01-O-1	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR	0505053-1	NEGL	-
F01-O-2	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR IFR	0505053-2	NEGL	-
F01-O-3	PLACARD, OPERATIONAL LIMITATIONS-DAY VFR FLOATPLANE	0505053-3	NEGL	-
F01-O-4	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR FLOATPLANE	0505053-16	NEGL	-
F01-O-5	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR IFR FLOATPLANE	0505053-17	NEGL	-
F04-R	NOTE THE ABOVE PLACARDS ARE INSTALLED ACCORDING TO AIRCRAFT EQUIPMENT INDICATOR, AUDIBLE PNEUMATIC STALL WARNING	0505053-18	NEGL	-
F13-S	OVERVOLT WARNING LIGHT, ALTERNATOR	0523112	0.2 NEGL	28.5 -

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
G. AUXILIARY EQUIPMENT				
G04-A	TOW HOOK (INSTALLED) (STOWED)	0500228	0.5	229.0
G07-A	RINGS, AIRPLANE HOISTING (CABIN TOP)		0.5	95.0
G13-A	CORROSION PROOFING, INTERNAL	0541115	1.1	49.1
G16-A	STATIC DISCHARGERS	0500036	10.0	77.0
G19-A	STABILIZER ABRASION BOOTS	0501048	0.4	143.2
G22-S	TOW BAR (STOWED)	0500041	2.7	206.0
G25-S	PAINT, OVERALL EXTERIOR COVER OVERALL WHITE BASE COLOR STRIPE	2001014 0504030	1.6 11.4*	95.0 91.5*
G25-O	PAINT SCHEME - SKYHAWK II		0.6	90.5
G31-A	CABLES, CORROSION RESISTANT CONTROL (NET CHANGE)	0504030 0500036	11.4 0.0	109.9 91.5
G55-A	FIRE EXTINGUISHER INSTALLATION			
G58-A	FIRE EXTINGUISHER	0501011	3.0*	43.8*
G88-A-1	FIRE EXTINGUISHER MOUNTING BRACKET	C421001-0101	2.6	44.0
	STEPS & HANDLES, REFUELING ASSISTING	C421001-0102	0.3	42.2
	WINTERIZATION KIT INSTALLATION, ENGINE	0513415	1.7	17.8
	BREATHER TUBE INSULATION	0501008-1	0.8*	-22.7*
	TWO COWL INLET AIR COVERS (INSTALLED) (STOWED)	0552011	0.4	-13.8
G88-A-2	WINTERIZATION KIT INSTL., FLOATPLANE ONLY	0552132-1, -2	0.3	-32.0
	BREATHER TUBE INSULATION	0552132-1, -2	0.3	95.0
	COWL OUTLET COVER (1) (INSTALLED) (STOWED)	0552011	1.0*	-7.2*
G92-O	FUEL SYSTEM, LONG RANGE WING TANKS (NET CHANGE)		0.4 0.6 0.6 9.5	-12.0 -4.0 95.0 48.0
H. AVIONICS & AUTOPILOTS				
H01-A	CESSNA 300 ADF INSTALLATION 2ND UNIT CONSISTS OF RECEIVER WITH BFO (R-546E) INDICATOR (IN-346A)	3410137-18 41240-0101 40980-1001	7.4* 2.3 0.9	20.6* 12.1 14.0

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
J30-A-1	INCLUDES J30-A-1 AND REPLACES ITEMS F01-R, F04-R, BRAKE & NOSE WHEEL STEERING SYSTEMS. THE WT & ARM SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. USE ACTUAL INSTALLED WT & ARM CHANGE. FLOAT PLANE CONSISTS OF ITEMS: A33-0- PROPPELLER, FLOAT PLANE, EXCHANGE F01-0- PLACARD, FLOAT PLANE OPERATION G31-A CABLES, CORROSION RESIST, EXCH. G13-A CORROSION PROOFING, INTERNAL G07-A RINGS & AIRPLANE HOISTING G58-A STEELAGE & HANDLE, REFUELING J10-A FUSELAGE MODIFICATION (OPT C) J11-A COMB DECK V-BRACE (INSTALLED) J12-A INTERCONNECT SYSTEM (INSTALLED) COMB ASSY, FLOAT PLANE (NET CHANGE) FLOAT PLANE EQUIPMENT KIT, PARTIAL OPTION B CONSISTS OF ITEMS: F01-0- PLACARD, FLOAT PLANE OPERATION G31-A CABLES, CORROSION RESIST, EXCH CORROSION PROOFING INTERNAL G07-A RINGS & AIRPLANE HOISTING G58-A STEELAGE & HANDLE, REFUELING J10-A FUSELAGE MODIFICATION J11-A COMB DECK V-BRACE (STOWED) J12-A INTERCONNECT SYSTEM (NET CHANGE) COMB ASSY, FLOAT PLANE (NET CHANGE) FLOAT PLANE KIT B WITH NO INTERNAL CORROS- ION PROOFING) G07-A STEELAGE & HANDLE, REFUELING J10-A FUSELAGE MODIFICATIONS J11-A COMB DECK V-BRACE (INSTALLED) J12-A INTERCONNECT SYSTEM (STOWED) COMB ASSY, FLOAT PLANE (NET CHANGE)	0500083 0550320 0505053 0500036 0500036 0541115 0513415 0500083 0513003 0560012 0552112-32 0500083 0505053 0500036 0500036 0541115 0513415 0500083 0513003 0560012 0552112-32 0541115 0513415 0500083 0513003 0560012 0552112-32 0541115	21.7* 1.3 0.0 0.0 10.0 1.7 1.6 1.1 0.4 NEGL 20.4*	52.3* -41.4 77.0 49.1 45.5 28.2 69.6 62.5*
J30-A-2				
J30-A-3				

SECTION 7 AIRPLANE & SYSTEMS DESCRIPTIONS

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