

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 for this airplane as delivered from the factory can only be found in the plastic envelope carried in the back of this handbook.

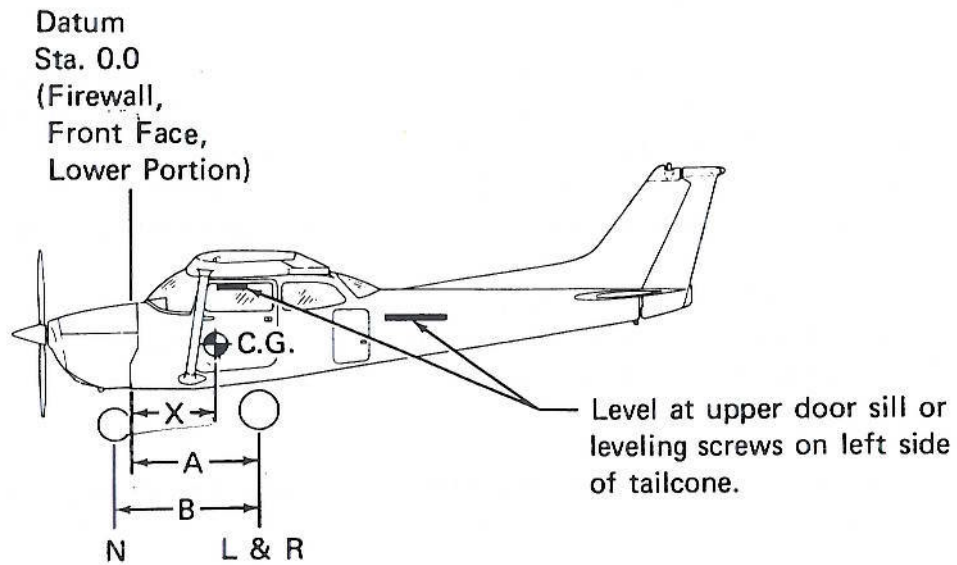
It is the responsibility of the pilot to ensure that the airplane is loaded properly.

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

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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	

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

Item	Weight (Lbs.)	X C.G. Arm (In.)	Moment/1000 (Lbs.-In.)
Airplane Weight (From Item 5, page 6-3)			
Add: Oil (8 Qts at 7.5 Lbs/Gal)	15.0	-14.0	-0.2
Add Unusable Fuel:			
Std. Tanks (3 Gal at 6 Lbs/Gal)		46.0	
L.R. Tanks (4 Gal at 6 Lbs/Gal)		46.0	
Integral Tanks (6 Gal at 6 Lbs/Gal)		46.0	
Equipment Changes			
Airplane Basic Empty Weight			

Figure 6-1. Sample Airplane Weighing

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.

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.

LOADING ARRANGEMENTS

*Pilot or 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.

- NOTES:
1. The usable fuel C.G. arm for standard, long range and integral tanks is located at station 48.0.
 2. The rear cabin wall (approximate station 108) or aft baggage wall (approximate station 142) can be used as convenient interior reference points for determining the location of baggage area fuselage stations.

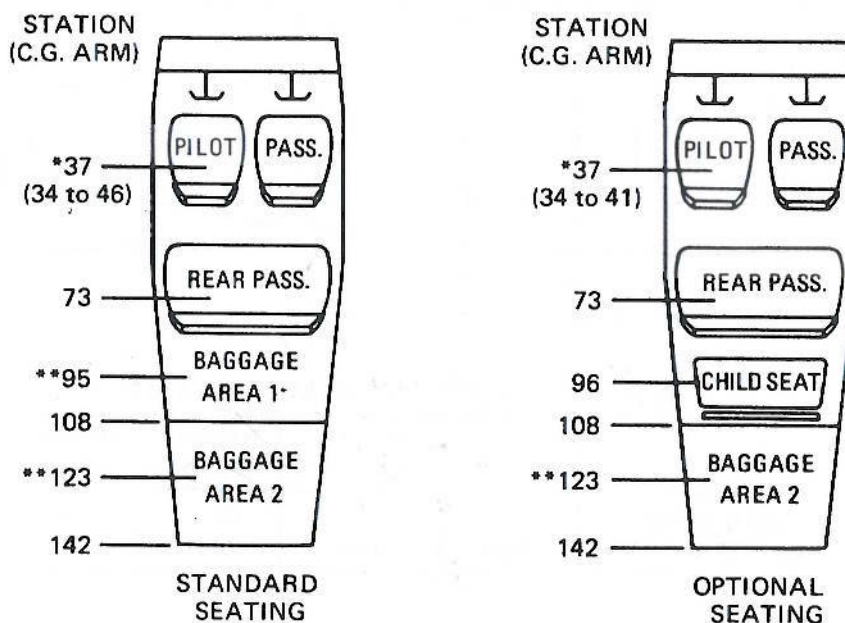
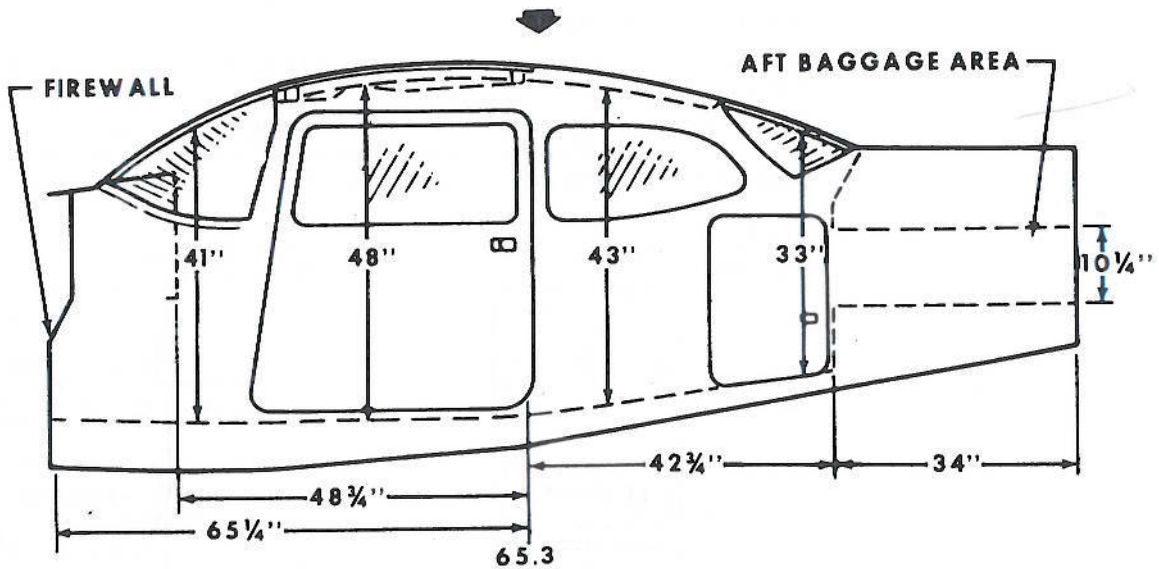


Figure 6-3. Loading Arrangements

CABIN HEIGHT MEASUREMENTS



DOOR OPENING DIMENSIONS

	WIDTH (TOP)	WIDTH (BOTTOM)	HEIGHT (FRONT)	HEIGHT (REAR)
CABIN DOOR	32"	37"	40 1/2"	39"
BAGGAGE DOOR	15 1/4"	15 1/4"	22"	21"

——— WIDTH ———
 ● LWR WINDOW LINE
 * CABIN FLOOR

CABIN WIDTH MEASUREMENTS

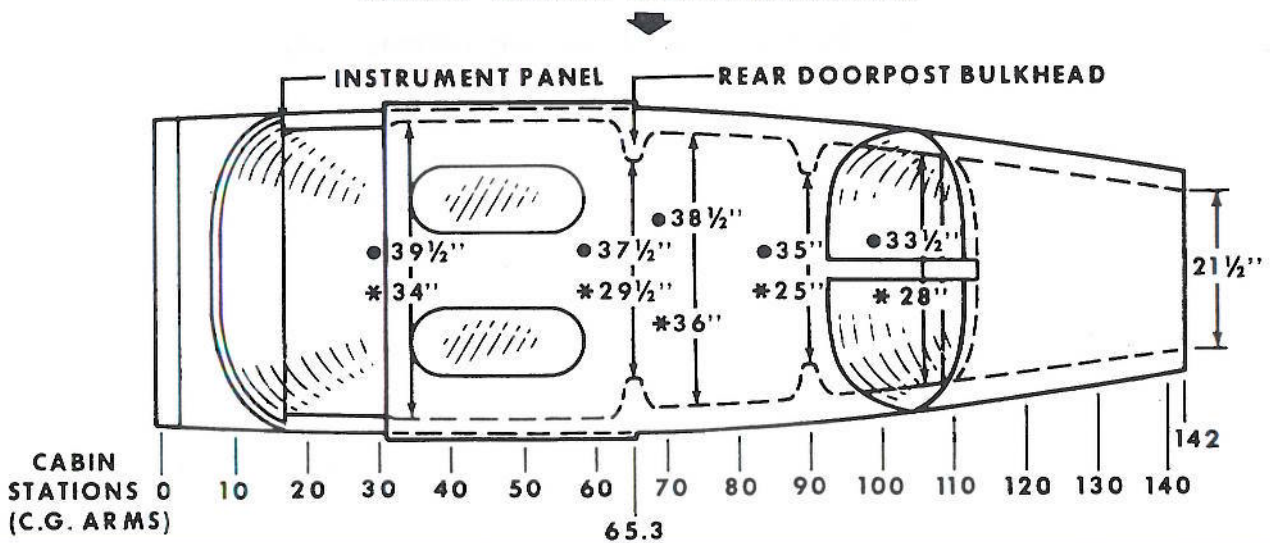
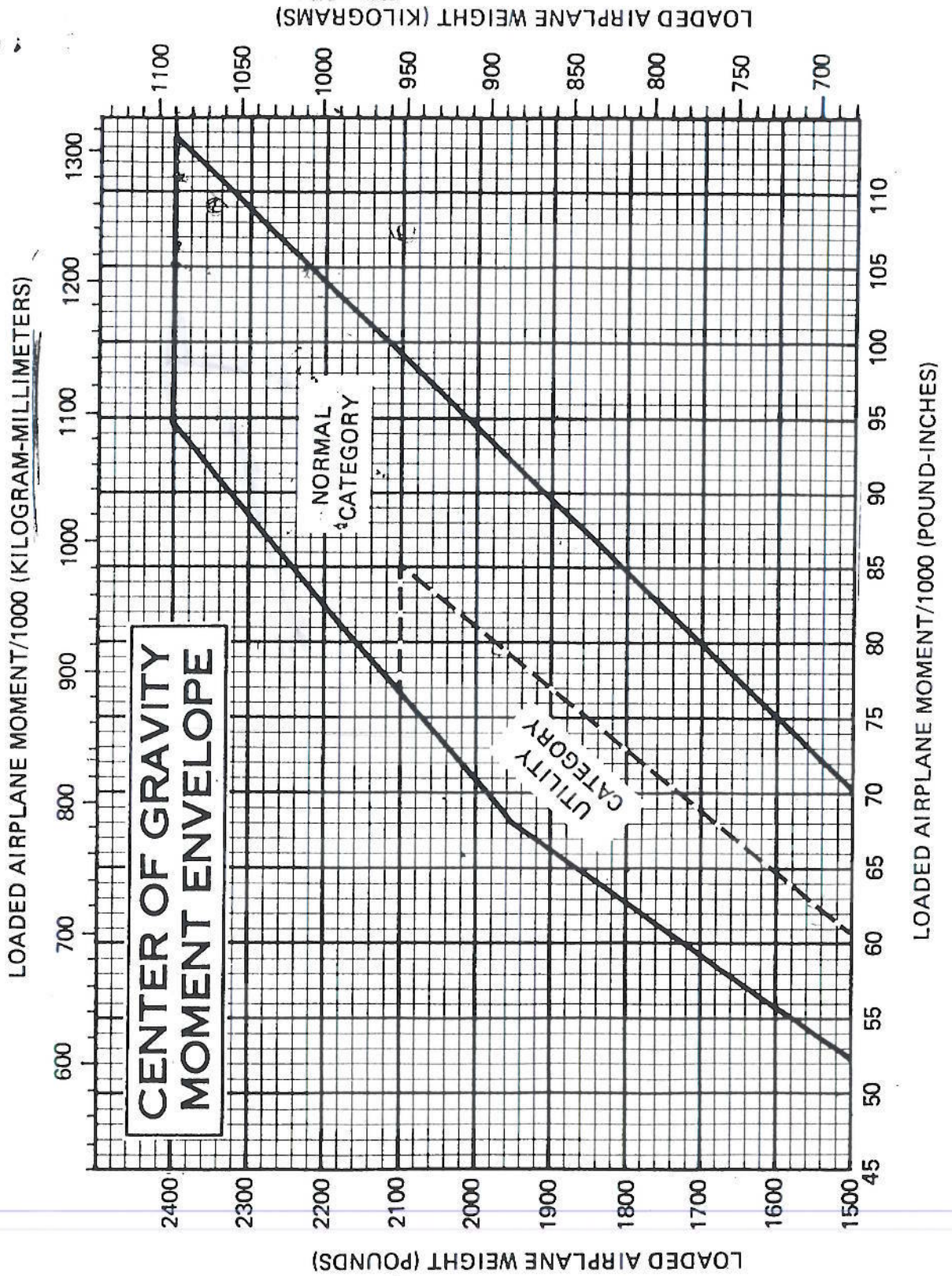


Figure 6-4. Internal Cabin Dimensions



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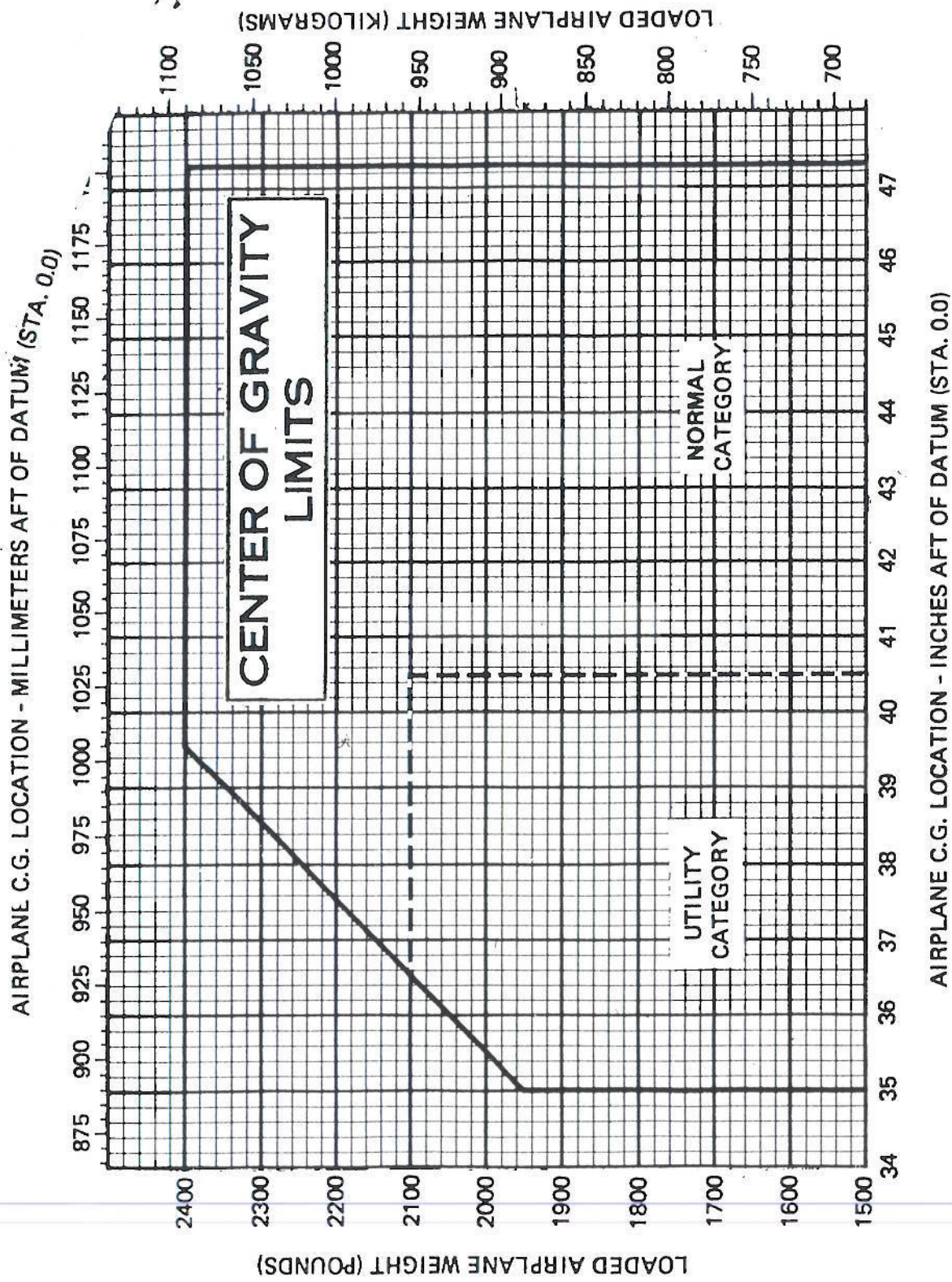


Figure 6-8. Center of Gravity Limits

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.

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	A. POWERPLANT & ACCESSORIES			
A01-R	ENGINE LYCOMING O-320-D2J (INCLUDES ELECTRIC STARTER, VACUUM PUMP PAD, SPARK-PLUGS & CARBURETOR)	0550319	279.0	-19.7
A05-R	FILTER, CARBURETOR AIR	C294510-0301	0.5	-26.0
A09-R	ALTERNATOR, 28 VOLT, 60 AMP	C611503-0102	10.7	-29.0
A17-R	OIL COOLER INSTALLATION -OIL COOLER	0550319 8406J	3.3* 1.9	-10.2* -11.7
A21-S	OIL FILTER INSTALLATION (SPIN-ON-ELEMENT) NET CHANGE	0501060	2.5	-6.5
A33-R	PROPELLER ASSY. (FIXED PITCH-LANDPLANE) -PROPELLER (MCCAULEY) -PROP SPACER ADAPTER (MCCAULEY)	C1610C1-0310 1C160/DTM7557 C4516	34.6* 30.1 3.6	-38.3* -38.7 -35.5
A33-O	PROPELLER ASSY. (FIXED PITCH-FLOATPLANE) -PROPELLER (MCCAULEY) -PROP SPACER ADAPTER (MCCAULEY)	C1610C1-0307 1A175/E1M8042 C4516	37.5* 31.8 3.6	-38.3* -38.7 -35.5
A41-R	SPINNER INSTALLATION, PROPELLER -SPINNER DOME -FWD SPINNER BULKHEAD -AFT SPINNER BULKHEAD	0550320 0550236-8 0550321-4 0550321-10	2.0* 1.2 0.3 0.4	-41.4* -43.1 -40.8 -37.3
A61-S	VACUUM SYSTEM INSTALLATION -DRY VACUUM PUMP -FILTER -VACUUM GAUGE -RELIEF VALVE - REGULATOR	0501054 C431003-0101 1201075-2 C668509-0101 C482001-0401	3.0* 1.8 0.2 0.1 0.4	-2.7* -6.3 5.4 16.7 5.0
A70-A	PRIMER SYSTEM, ENGINE THREE CYLINDER	0501056-1	0.3	-12.0
A73-A	OIL QUICK DRAIN VALVE (NET CHANGE)	1701015-2	0.0	--

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
B01-R	B. LANDING GEAR & ACCESSORIES WHEEL, BRAKE & TIRE ASSY, 6.00X6 MAIN (2) -WHEEL ASSY., MCCAULEY (EACH) -BRAKE ASSY., MCCAULEY (LEFT) -BRAKE ASSY., MCCAULEY (RIGHT) -TIRE, 4 PLY BLACKWALL (EACH) -TUBE (EACH)	C163019-0201 C163005-0101 C163032-0115 C163032-0114 C262003-0101 C262023-0102	40.1* 7.6 1.8 1.8 8.4 1.8	57.8* 58.2 54.5 54.5 58.2 58.2
B04-R	WHEEL & TIRE ASSY., 5.00X5 NOSE -WHEEL ASSY., MCCAULEY -TIRE, 4 PLY BLACKWALL -TUBE	C163018-0101 C163005-0201 C262003-0102 C262023-0101	10.2* 3.8 5.1 1.4	-6.8* -6.8 -6.8 -6.8
B10-S	FAIRING INSTALLATION -NOSE WHEEL FAIRING (EACH) -MAIN WHEEL FAIRING (EACH) -BRAKE FAIRINGS (2)	0541225-1 0543079-11 0541223 0541224	17.8* 4.0 5.7 1.1	47.1* -4.9 60.3 55.0
C01-R	C. ELECTRICAL SYSTEMS BATTERY, 24 VOLT, STANDARD DUTY	C614002-0101	23.2	-5.0
C01-D	BATTERY, 24 VOLT, HEAVY DUTY	C614002-0102	25.2	-5.0
C04-R	ALTERNATOR CONTROL UNIT, 28 VOLT WITH HIGH AND LOW VOLTAGE SENSING	C611005-0101	0.4	3.5
C07-A	GROUND SERVICE PLUG RECEPTACLE	0501064-1	2.7	-2.6
C16-D	HEATING SYSTEM, PITOT (NET CHANGE)	0422355-8	0.6	24.4
C22-A	LIGHTS, INSTRUMENT POST (REQUIRES INSTAL- LATION OF E34-D DELUXE GLARESHIELD)	0513094-23	0.5	16.5
C25-A	LIGHT, MAP (CONTROL WHEEL MOUNTED) (INSTALLED WITH E89-D ONLY)	0570087-1	0.2	21.5

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C28-S	LIGHT, MAP & INSTRUMENT PANEL FLOOD (DOORPOST MOUNTED)	0700149	0.3	32.0
C31-A	LIGHTS, COURTESY ENTRANCE (SET OF 2)	0521101-1	0.5	61.0
C40-A	DETECTORS, NAVIGATION LIGHT (SET OF 2)	0701013-1, -2	NEGL	--
C43-A	LIGHT INSTALLATION, OMNIFLASH BEACON -BEACON LIGHT ON FIN TIP -FLASHER POWER SUPPLY -RESISTOR (MEMCOR) -MISC. HARDWARE	0506003-5 C621001-0102 C594502-0102 DR95-6	1.4* 0.4 0.6 0.2 0.2	204.7* 242.5 205.1 208.3 124.3
C46-A	LIGHT INSTALLATION, WING TIP STROBE -FLASHER POWER SUPPLY (SET OF 2) -STROBE LIGHT, WING TIP (SET OF 2) -WIRING & HARDWARE	0501027-4 C622008-0102 C622006-0107	3.4* 2.3 0.2 0.9	43.3* 47.0 43.5 33.0
C49-S	LIGHT INSTALLATION, COWL MOUNTED LANDING -LAMP, 250 WATT (G.E.)	0570312 4596	1.9* 0.8	-27.1* -29.0
C49-O	LIGHTS, DUAL COWL MOUNTED LANDING -LAMP, 100 WATT (G.E.) (EACH)	0552141-6 4594	3.2* 0.5	-23.0* -29.0
	D. INSTRUMENTS			
D01-R	INDICATOR, AIRSPEED	C661064-0102	0.6	16.2
D01-O	INDICATOR, TRUE AIRSPEED	0513279-5	0.7	16.3
D04-A	STATIC AIR ALTERNATE SOURCE	0501017	0.2	15.5
D07-R	ALTIMETER (SENSITIVE)	C661071-0101	0.7	14.0
D07-O-1	ALTIMETER, SENSITIVE (50 FT. MARKINGS) (FEET AND MILLIBARS)	C661071-0102	0.7	14.0
D07-O-2	ALTIMETER (SENSITIVE) 20FT. MARKINGS	C661025-0102	0.7	14.0

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
D10-A	(FEET AND MILLIBARS)			
D16-A-1	ALTIMETER, 2ND UNIT INSTALLATION (DUAL) ENCODING ALTIMETER (REQUIRES RELOCATION OF REGULAR ALTIMETER)	2001015 0501049	0.8 3.0	14.5 14.0
D16-A-2	ENCODING ALTIMETER, FEET & MILLIBARS (RE- QUIRES RELOCATION OF REGULAR ALTIMETER)	0501049	3.0	14.0
D16-A-3	ALTIUDE ENCODER (BLIND, DOES NOT REQUIRES INSTRUMENT PANEL MOUNTING)	0501059	1.5*	14.4*
D19-R	AMMETER	S-1320-5	0.3	16.5
D22-A	GAGE, CARBURETOR AIR TEMPERATURE	0513339-4	1.0	14.0
D25-S	CLOCK, ELECTRIC	C664508-0102	0.3	16.3
D25-O	CLOCK, DIGITAL READOUT	C664511-0101	0.3	16.3
D28-R	COMPASS, MAGNETIC-INSTALLATION	C513262-1	0.4	14.0
D38-R	INSTRUMENT CLUSTER, LH & RH FUEL QUANTITY	C669537-0106	0.4	16.5
D38-O	INSTRUMENT CLUSTER, LH & RH FUEL QUANTITY (USED WITH G92-O ONLY)	C669535-0101	0.4	16.5
D41-R	INSTRUMENT CLUSTER, OIL PRESS, OIL TEMP.	C669535-0101	0.5	16.5
D49-A	INDICATOR, ECONOMY MIXTURE (EGT)	0501043-2	0.6	7.8
D64-S	GYROS, ATTITUDE & DIRECTIONAL INDICATORS (NON NAV-O-MATIC) -DIRECTIONAL INDICATOR -ATTITUDE INDICATOR -HOSES & HARDWARE	0501054-1 C661075-0104 C661076-0101	6.3*	12.5*
D64-O	GYRO INSTALLATION FOR 300 NAV-O-MATIC -DIRECTIONAL INDICATOR (ARC) ALTERNATE -ATTITUDE INDICATOR -HOSES & HARDWARE	C501054-2 40760-0114 C661076-0101	6.4* 2.6 1.9 1.9	12.5* 13.5 13.5 10.1

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D67-A	RECORDER INSTALLATION, FLIGHT HOUR	0501052-3	0.5	6.3
D82-S	GAGE, OUTSIDE AIR TEMPERATURE	C668507-0101	0.1	28.6
D85-R	TACHOMETER INSTALLATION, ENGINE -RECORDING TACH. INDICATOR	0506007 C668020-0121	1.0* 0.7	12.1* 16.0
D88-S-1	INDICATOR, TURN COORDINATOR, 28 VOLT ONLY	C661003-0505	1.3	15.8
D88-S-2	INDICATOR, TURN COORDINATOR, 10-30 VOLT	C661003-0506	1.3	15.8
D88-O	INDICATOR, TURN COORDINATOR (FOR USE WITH NAV-O-MATIC 200A AND 300A)	42320-0028	1.3	14.6
D91-S	INDICATOR, VERTICAL SPEED	C661080-0101	1.0	14.9
	E. CABIN ACCOMMODATIONS			
E05-R	SEAT, ADJUSTABLE FORE & AFT PILOT	0514181	16.0	44.0
E05-O	SEAT, INFINITE ADJUSTABLE - PILOT	0514182	23.0	41.5
E07-S	SEAT, ADJUSTABLE FORE & AFT- CO-PILOT	0514181	16.0	44.0
E07-O	SEAT, INFINITE ADJUSTABLE - CO-PILOT	0514182	23.0	41.5
E09-S	SEAT, REAR (ONE PIECE BACK CUSHION)	0514183	23.0	79.5
E09-O	SEAT, REAR (TWO PIECE BACK CUSHION)	0514184	26.5	79.5
E15-R	PILOT LAP BELT ASSY	S-2275-103	1.0	37.0
E15-S	SHOULDER HARNESS ASSY, PILOT	S-2275-201	0.6	37.0
E19-O	SHOULDER HARNESS INERTIA REEL INSTALLATION PILOT & COPILOT, REPLACES STANDARD BELTS AND SHOULDER HARDNESS (NET CHANGE)	0501046-1	2.0	82.0

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
E23-S	BELT & SHOULDER ASSY - CO-PILOT	S-2275-3	1.6	37.0
E27-S	BELT ASSY, 2ND ROW (SET OF 2)	S-1746-39	2.0	70.0
E27-O	SEAT BELT & SHOULDER HARNESS ASSY FOR 2ND ROW SEATING	S-2275-8	3.2	70.0
E34-O	DELUXE GLARESHIELD (NET CHANGE)	0515034	1.0	21.0
E35-A-1	LEATHER SEAT COVERING (NET CHANGE)	CES-1151	2.0	62.0
E35-A-2	LEATHER & VINYL OR FABRIC COVER (NET CHG)	CES-1151	1.5	62.0
E37-O	WINDOW, HINGED, RH DOOR (NET CHANGE)	0501075-1	2.3	47.0
E39-A	WINDOWS, OVERHEAD CABIN TOP (NET CHANGE)	0511800-10	0.9	47.9
E43-A	VENTILATION SYSTEM, REAR SEAT (NGT COM-PATIBLE WITH E88-A-1 OR E88-A-2)	0700322-14	1.7	60.0
E49-A	BEVERAGE CUP HOLDER	0501023-2	0.1	15.0
E50-A	HEADREST, 1ST ROW (SET OF 2)	1215073-11	1.5	47.0
E51-A	HEADREST, 2ND ROW (SET OF 2)	1215073-11	1.5	86.0
E55-S	SUN VISORS (SET OF 2)	0514166	0.9	32.8
E57-A	WINDOWS, TINTED (CABIN, NET CHANGE)	0500267-2	0.0	--
E59-A	APPROACH PLATE HOLDER INSTALLATION	0415040-1	0.1	20.5
E65-S	BAGGAGE NET	2015009-8	0.5	95.0
E71-A	RINGS, CARGO TIE DOWN (STOWED) (USE ARM AS INSTALLED WITH CARGO)	0500042	1.0	--
E85-A	CONTROLS INSTALLATION, DUAL	0513335-6	4.9	12.4
E87-A	RUDDER TRIM SYSTEM	0513290-1	1.9	9.4
E88-A-1	CABIN AIR CONDITIONING SYSTEM-CHILLED AIR	0501066-1	63.5*	43.2*

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E88-A-2	-COMPRESSOR ASSEMBLY -EVAPORATOR (LOCATED ABOVE AFT BAGGAGE) -CONDENSER (LOCATED UNDER SIDE FUS.)	C413001-0102	20.2 9.1 5.3	-29.0 123.5 96.2
E89-0	CABIN AIR CIRCULATING FAN	0501072-2	10.0	100.0
E93-R	CONTROL WHEEL, ALL PURPOSE, PILOT (INCLUDES MIKE SWITCH AND PANEL MOUNTED AUXILIARY MIKE JACK) (NET CHANGE) HEATING SYSTEM, CABIN & CARBURETOR AIR -EXHAUST SYSTEM, INCLUDED NOTE--CARBURETOR HEAT IS REQUIRED ITEM CABIN HEAT IS STANDARD ITEM	0570087-1 0550333-1 0506007	NEGL 17.5	-- -21.0
F01-R	F. PLACARDS, WARNINGS & MANUALS			
F01-0-1	PLACARD, OPERATIONAL LIMITATIONS-DAY VFR	0505087	NEGL	--
F01-0-2	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR	0505087	NEGL	--
F01-0-3	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR & IFR	0505087	NEGL	--
F01-0-4	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR FLOATPLANE	0505087	NEGL	--
F01-0-5	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR & IFR FLOATPLANE	0505087	NEGL	--
F04-R	NOTE--THE ABOVE PLACARDS ARE INSTALLED ACCORDING TO AIRCRAFT EQUIPMENT INDICATOR, AUDIBLE PNEUMATIC STALL WARNING	0523112	0.2	28.5

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
F13-S	LOW VOLTAGE WARNING LIGHT, ALTERNATOR		NEGL	--
F16-R	PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL	D1192-13PH	1.3	--
	G. AUXILIARY EQUIPMENT			
G07-A	RINGS, AIRPLANE HOISTING (CABIN TOP)	0541115-1	0.9	49.1
G13-A	CORROSION PROOFING, INTERNAL	0500036	10.0	77.0
G16-A	STATIC DISCHARGERS	0501048-1	0.4	143.2
G19-A	STABILIZER ABRASION BOOTS	0500041-2	2.7	206.0
G22-S	TOW BAR (STOWED)	0501019	1.6	95.0
G25-S	PAINT, OVERALL EXTERIOR -OVERALL WHITE BASE -COLOR STRIPE	0504039	12.6* 11.6 0.6	90.8* 90.5 96.9
G31-A	CABLES, CORROSION RESISTANT CONTROL (NET CHANGE)	0500036	0.0	--
G55-A-1	FIRE EXTINGUISHER INSTALLATION -FIRE EXTINGUISHER -FIRE EXTINGUISHER MOUNTING CLAMP	0501011-1 C421001-0101 C421001-0102	3.0* 2.6 0.3	43.8* 44.0 42.2
G55-A-2	FIRE EXTINGUISHER INSTL. VERTICAL ADJ SEAT	2401011-1	3.2	29.0
G58-A	STEPS & HANDLES, REFUELING ASSISTING	0513415-2	1.7	16.3
G67-A	RUDDER PEDAL EXTENSIONS, REMOVABLE SET OF 2 (STOWABLE - INSTALLED ARM SHOWN) (AVAILABLE FROM DEALERS ONLY)	0501082-1	2.3	8.0
G68-A-1	WINTERIZATION KIT INSTALLATION, ENGINE -BREATHER TUBE INSULATION	0501008 0552011	0.8* 0.4	-22.7* -13.8

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G88-A-2	-TWO COWL INLET AIR COVERS (INSTALLED) -TWO COWL INLET AIR COVERS (STOWED) -OIL COOLER COVER PLATE	0552132-5,-6 0552132-5,-6 0552220-1	0.3 0.3 0.1	-32.0 95.0 -10.2
G92-0-1	WINTERIZATION KIT INSTL., FLOATPLANE ONLY -BREATHER TUBE INSULATION -COWL OUTLET COVER (1) (INSTALLED) -COWL OUTLET COVER (1) (STOWED)	0501055	1.0* 0.4 0.6 0.6	-7.2* -12.0 -4.0 95.0
G92-0-2	FUEL SYSTEM, EXTENDED RANGE WING TANKS (NET CHANGE) FUEL SYSTEM, EXTENDED RANGE WET WINGS (NET CHANGE)	0520018-5,-6	8.0 6.0	48.0 48.0
H01-A-1	H. AVIONICS & AUTOPILOTS CESSNA 300 ADF INSTALLATION -RECEIVER WITH BFO, R-546E -INDICATOR, IN-346A -SENSE ANTENNA INSTALLATION -LOOP ANTENNA INSTALLATION -WIRES, MOUNTING & MISC ITEMS	3910159-2 41240-0001 40980-1001 0570400-632 3960104-1 3950122-31	6.9* 3.3 0.9 0.2 1.4 1.1	23.2* 13.1 14.1 101.8 58.2 20.8
H01-A-2	CESSNA 300 ADF INSTL., W/O MAP CASE SAME AS H01-A-1, EXCEPT-- -MAP CASE DELETED	3910159-2	6.1*	23.8*
H04-A	DME INSTALLATION, NARCO -TRANSCIEVER (DME-190) -MOUNTING -ANTENNA, RADIO COOLING & MISC WIRING	0513085-22 3910166-1 3312-406	-0.8 6.4* 5.1 0.6 0.7	14.0 13.7* 13.1 13.1 18.9
H05-A	FOSTER R-NAV 511 (VFR ONLY) INSTALLATION -R-NAV 511 COMPUTER -DME 190 ADAPTER -WIRING & MISC HARDWARE	3910203-1 805A0202-1 AD804A0105	3.1* 2.5 0.3 0.3	13.0* 14.1 3.4 14.5
H07-A	CESSNA 400 GLIDESLOPE (INCLUDES VOR/ILS)	3910157-2	4.9*	78.3*

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H08-A-1	INDICATOR--NET CHANGE FOR VOR/LOC IND.) --RECEIVER, R-4438 --ANTENNA (LOCATED UPPER WINDSHIELD) --VOR/ILS INDICATOR, IN-386A ADDED --VOR/LOC INDICATOR, IN-385A DELETED --WIRING, MOUNTING & MISC HARDWARE AUTO RADIAL CENTERING INDICATOR (ARC/LOC) EXCHANGE FOR VOR/LOC IND (300 SERIES) NAV- COM 720 CH COM 1ST & 2ND UNIT (WT NET CHG) --ARC/LOC INDICATOR ADDED --VOR/LOC INDICATOR DELETED	42100-0000 1200098-2 46860-2000 46860-1000 3950122 3910196-1	2.1 0.2 1.7 -1.6 -2.5 0.2*	117.2 28.0 14.7 14.7 53.1 14.7*
H08-A-2	AUTO RADIAL CENTERING INDICATOR (ARC/ILS) EXCHANGE FOR VOR/ILS INDICATOR USED WITH ITEM H07-A ONLY (WT NET CHANGE) --ARC/ILS INDICATOR ADDED --VOR/ILS INDICATOR DELETED	46860-1200 46860-1000 3910196-2	1.8 -1.6 0.1*	14.7 14.7 14.7*
H11-A	SUNAIR ASB-125 HF TRANSCEIVER, 2ND UNIT --ANTENNA LOAD BOX --POWER SUPPLY (REMOTE) --TRANSCEIVER (PANEL MOUNTED) --ANTENNA INSTL., 351 IN. LONG --MISC SWITCHES, WIRES & ETC.	3910158-1 99816 99683 99681 3960117-3 3950122-12	20.7* 5.2 8.5 5.3 0.3 1.4	87.1* 112.5 113.0 113.4 174.4 92.3
H13-A	CESSNA 400 MARKER BEACON --RECEIVER, R-402A --ANTENNA, L SHAPED ROD --MARKER BEACON KIT INSTL. --CABLES & MISC HARDWARE	3910164-19 42410-5128 0770681-1 2470017-3 3950122	2.4* 0.7 0.7 0.1 0.9	57.4* 12.1 140.0 16.6 33.0
H16-A-1	CESSNA 300 TRANSPONDER --TRANSCEIVER, RT-359A --ANTENNA --CABLES & MISC HARDWARE	3910127-17 41420-0028 42940-0000 3950122	4.1* 2.7 0.2 1.1	26.4* 14.2 127.0 38.7
H16-A-2	CESSNA 400 TRANSPONDER (USED FOR EXPORT) --TRANSCEIVER, RT-459A --ANTENNA --CABLES & MISC HARDWARE	3910128-21 41470-1028 42940-0000 3950122	4.1* 2.7 0.2 1.1	26.4* 14.2 127.0 38.7

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
MODEL 172P

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H22-A	CESSNA 300 NAV/COM 720 CH COM INSTALLATION REQUIRES --H34-A TO BE OPERATIONAL 1ST UNIT H37-A TO BE OPERATIONAL 2ND UNIT --RECEIVER--TRANSCIVER, RT-385A --VOR/LOC INDICATOR, IN-385A --MOUNT, WIRING & MISC ITEMS	3910183-4 46660-1000 46860-1000 3950122-26	7.7* 5.5 1.6 0.6	13.3* 13.5 14.5 12.5
H28-A-1	EMERGENCY LOCATOR TRANSMITTER --TRANSMITTER (D & M DMELT-6-1) --ANTENNA --HARDWARE	0470419-3 C589511-0117 C589511-0109	3.5* 3.3 0.1 0.1	116.5* 116.4 122.0 114.3
H28-A-2	EMERGENCY LOCATOR TRANSMITTER (USED IN CANADA) --TRANSMITTER (D & M DMELT-6-1C) --ANTENNA --HARDWARE	0470419-4 C589511-0113 C589511-0109	3.5* 3.3 0.1 0.1	116.5* 116.4 122.0 114.3
H31-A-1	NAV-O-MATIC 200A --CONTROLLER--AMPLIFIER --TURN COORDINATOR (NET CHANGE) (G-300A) --ROLL ACTUATOR --WIRING & HARDWARE --RELAY INSTALLATION	3910162-1 43610-1202 42320-0028 42730-3908 3950117-7 2470016-4	8.1* 1.1 0.0 3.8 2.8 0.4	47.3* 13.5 - 61.1 48.2 4.0
H31-A-2	NAV-O-MATIC 300A (AF-395A) --CONTROLLER--AMPLIFIER & MOUNT --D64-O GYRO INSTALLATION (NET CHANGE) --D88-O TURN COORDINATOR (NET CHANGE) --ROLL ACTUATOR --RELAY INSTALLATION --WIRING & MISC HARDWARE	3910163-1 42660-1202 0501054-2 42320-0028 42730-3908 2470016-4 3950115-7	8.5* 1.4 0.1 0.0 3.8 0.4 2.8	45.4* 13.5 12.5 - 61.1 4.0 51.2
H33-A	INTERCOM SYSTEM (REQUIRES--H34-A AND H56-A TO BE OPERATIONAL)	3910210	0.4	19.3
H34-A	BASIC AVIONICS KIT--REQUIRED WITH 1ST UNIT NAV/COM FACTORY INSTALLATION ONLY --RADIO COOLING INSTALLATION --NOISE FILTER--AUDIO (ON ALTERNATOR) --COM ANTENNA CABLE INSTL. --NAV ANTENNA CABLE INSTL.	3910186-2 3930214 3940148-2 3950122-36 3950122-4	7.2* 1.6 0.1 0.4 0.6	42.7* 10.2 -26.1 27.8 116.0

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H37-A	-COMANT ANTI-P-STATIC NAV. ANT. INSTL. -LH VHF COM ANTENNA INSTL. -CABIN SPEAKER INSTALLATION -MIKE INSTALLATION, HANDHELD -HEADPHONE INSTALLATION -AUDIO CONTROL PANEL INSTL. -1ST N/C TRANSCIEIVER KIT INSTL. -BUS BAR INSTALLATION	CI-159 3960113-1 3970123-5 3970124-1 3970125-4 3970152 3930186-2 3930178-2	0.5 0.4 1.2 0.3 0.2 1.8 0.1 NEGL	220.8 62.4 37.9 17.2 14.2 12.5 16.5 -
H43-A	ANTENNA & COUPLER KIT, REQUIRED WITH 2ND UNIT NAV/COM FACTORY INSTALLATION ONLY	3910185-2	1.1*	37.5*
H55-A	-2ND N/C TRANSCIEIVER KIT INSTALLATION -COM ANTENNA CABLE INSTL. RH -ANTENNA COUPLER INSTALLATION -ANTENNA INSTALLATION	3930186-4 3950122-35 3960111-9 3960113-2	0.1 0.4 0.2 0.4	16.5 27.8 10.0 62.4
H56-A	AVIONICS OPTION D NAV-O-MATIC WING PROV. MIKE - HEADSET COMBINATION (HEADSET STOWED) (REQUIRES ITEM E89-0) PADDED HEADPHONES & MICROPHONE, REQUIRES ITEM E89-0 ALL PURPOSE CONTROL WHEEL	0522632-2 C596533-0101 C596531-0101	1.7 0.3 1.1	68.2 13.0 13.0
J01-A	J. SPECIAL OPTION PACKAGES SKYHAWK II EQUIPMENT CONSISTS OF ITEMS -D01-0 TRUE AIRSPEED IND. (NET CHG) -C16-0 HEATED PITOT SYSTEM INSTL. -E85-A DUAL CONTROLS INSTALLATION -C40-A NAV LIGHT DETECTORS INSTL. -C31-A COURTESY LIGHTS INSTL. -C43-A FLASHING BEACON LIGHT INSTL. -D04-A STATIC ALTERNATE AIR SOURCE -H22-A NAV/COM 385A VOR/LOC 1ST UNIT -H28-A-1 EMERGENCY LOCATOR TRANSMITTER -H34-A BASIC AVIONICS KIT	0500510 0513279-5 0422355-8 0513335-6 0701013-1, -2 0521101-1 0506003-5 0501017-1 3910183-4 0470419-3 3910186-2	26.1* 0.1 0.6 4.9 NEGL 0.5 1.4 0.2 7.7 3.5 7.2	46.5* 16.3 24.4 12.4 - 61.0 204.7 15.5 13.3 116.5 42.7
J04-A	NAV-PAC INSTALLATION (SKYHAWK II ONLY)		19.8*	20.8*

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
MODEL 172P

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	-H22-A NAV/COM 385A VOR/LOC 2ND UNIT -H37-A ANTENNA & COUPLER KIT INSTL. -H01-A 300 ADF (546E) INSTALLATION -H10-A-1 300 TRANSPONDER (RT-359A)	3910183-4 3910185-2 3910159-2 3910127-17	7.7 1.1 6.9 4.1	13.3 37.5 23.2 26.4
J10-A	FLOATPLANE FUSELAGE STRUCTURAL MODIFICATIONS AND FITTING (OPTION C)	0500044	6.6	43.7
J13-A	FLOATPLANE COWLDECK V-BRACE (INSTALLED) FLOATPLANE COWLDECK V-BRACE (STOWED)	0513529-1	1.1 1.1	26.2 95.0
J15-A	FLOATPLANE AILERON-RUDDER INTERCONNECT -FLOATPLANE ONLY (INSTALLED) -FLOATPLANE ONLY (STOWED) NOTE--ITEMS J10-A AND J13-A ARE ALSO APPROVED FOR LANDPLANE OPERATIONS	0560012	- 0.4 0.4	- 69.6 95.0
J27-A	MODEL 89A2000 FLOATS & 502 ATTACHMENTS NET CHANGE BETWEEN STANDARD LANDING GEAR (ITEM NOS. B01-R, B04-R, B10-S, BRAKE AND NOSE WHEEL STEERING SYSTEM) AND FLOATPLANE KIT (ITEM NO. J30-A-1) IS APPROXIMATELY 155 LBS. AT 58.3 IN. THE CORRECT VALUES OF WT & ARM CHANGE FOR WT & BALANCE CALCULATIONS ARE TO BE DETERMINED FROM THE ACTUAL INSTALLATION WEIGHING	ED0-36335	-	-
J30-A-1	FLOATPLANE EQUIPMENT KIT WITH PROP CHANGE AND CORROSION PROOFING CONSISTS OF -A33-O PROPELLER, FLOATPLANE (EXCHG) -F01-O PLACARD, FLOATPLANE OPERATION -G31-A CABLES, CORROSION RESIST, EXCH -G13-A CORROSION PROOFING, INTERNAL -G07-A RINGS & AIRPLANE HOISTING -G58-A STEP & HANDLE, REFUELING -J10-A FUSELAGE MODIFICATION (OPT C) -J13-A COWLDECK V-BRACE (INSTALLED) -J15-A INTERCONNECT SYSTEM, INSTALLED - COWL ASSY, FLOATPLANE, NET CHG	0501080 0550320 0505087 0500036 0500036 0541115 0513415 0500044 0513529-1 0560012 0552162	23.8* 2.9 0.0 0.0 10.0 1.1 1.7 6.6 1.1 0.4 NEGL	45.7* -38.3 - - 77.0 49.1 17.8 43.7 26.2 69.6 -
J30-A-2	FLOATPLANE EQUIPMENT KIT WITH CORROSION PROOFING, V-BRACE STOWED & NO PROP CHANGE	0501080	20.9*	61.5*

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	-F01-O PLACARD, FLOATPLANE OPERATION -G31-A CABLES, CORROSION RESIST, EXCH -G13-A CORROSION PROOFING, INTERNAL -G07-A RINGS, AIRPLANE -G58-A STEP & HANDLE, REFUELING -G10-A FUSELAGE MODIFICATION -G13-A COWL DECK V-BRACE (STOWED) -G15-A INTERCONNECT SYSTEM (STOWED) - COWL ASSY, FLOATPLANE, NET CHG	0505087 0500036 0500036 0541115 0513415 0500044 0513529-1 0560012 0552162	0.0 0.0 10.0 1.1 1.7 6.6 1.1 0.4 NEGL	-- -- 77.0 49.1 17.8 43.7 95.0 95.0 --
J30-A-3	FLOATPLANE EQUIPMENT KIT WITH PROP CHANGE AND NO CORROSION PROOFING CONSISTS OF -A33-U PROPELLER, FLOATPLANE (EXCHG) -F01-O PLACARD, FLOATPLANE OPERATIONS -G07-A RINGS, AIRPLANE HOISTING -G53-A STEP & HANDLE, REFUELING -J10-A FUSELAGE MODIFICATION -J13-A COWL DECK V-BRACE (INSTALLED) -J15-A INTERCONNECT SYSTEM (INSTL.) - COWL ASSY, FLOATPLANE, NET CHG	0501080 0550320 0505087 0541115 0513415 0500044 0513529-1 0560012 0552162	13.8* 2.9 0.0 1.1 1.7 6.6 1.1 0.4 NEGL	23.1* -38.3 -- 49.1 17.8 43.7 26.2 -- --
J30-A-4	FLOATPLANE EQUIPMENT KIT WITH NO PROPELLER CHANGE OR CANADA (USED PRIMARILY IN CANADA) -G07-A RINGS, AIRPLANE HOISTING -G58-A STEP & HANDLE, REFUELING -J10-A FUSELAGE MODIFICATION -J13-A COWL DECK V-BRACE (INSTALLED) -J15-A INTERCONNECT SYSTEM (STOWED) - COWL ASSY, FLOATPLANE, NET CHG	0501060 0541115 0513415 0500044 0513529-1 0560012 0552162	10.9* 1.1 1.7 6.6 1.1 0.4 NEGL	40.3* 49.1 17.8 43.7 26.2 95.0 --

