

# 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.

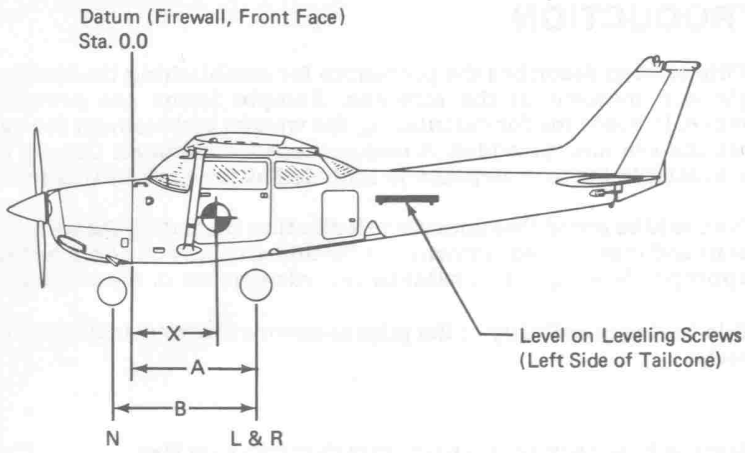
It is the responsibility of the pilot to ensure that the airplane is loaded properly.

## 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 quick-drain fitting 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, 1000 pounds).
  - 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	

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

$\frac{\quad}{W} \quad ( \quad )$

Item	Weight (Lbs.)	X C.G. Arm (In.)	Moment/1000 (Lbs.-In.)
Airplane Weight (From Item 5, Page 6-3)			
Add Oil: (9 Qts at 7.5 Lbs/Gal)	16.9	-16.1	-0.3
Add Unusable Fuel: (4 Gal at 6 Lbs/Gal)	24	46.0	1.1
Equipment Changes			
Airplane Basic Empty Weight			

Figure 6-1. Sample Airplane Weighing

**SAMPLE WEIGHT AND BALANCE RECORD**

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

AIRPLANE MODEL		SERIAL NUMBER		PAGE NUMBER				
172RG		172RG0465						
DATE	ITEM NO.	DESCRIPTION OF ARTICLE OR MODIFICATION	WEIGHT CHANGE				RUNNING BASIC EMPTY WEIGHT	
			ADDED (+)		REMOVED (-)		Wt. (lb.)	Moment /1000
In	Out		Wt. (lb.)	Arm (in.)	Moment /1000	Wt. (lb.)	Moment /1000	
8/83		Removed & Installed Avionics				1660.6	64.5	

Figure 6-2. Sample Weight and Balance Record

## 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.

## BAGGAGE TIE-DOWN

A nylon baggage net having six tie-down straps is provided as standard equipment to secure baggage on the cabin floor aft of the rear seat (baggage area 1) and on the top of the wheel well (baggage area 2). Six

eyebolts serve as attaching points for the net. Two eyebolts for the forward tie-down straps are mounted on the cabin floor near each sidewall just forward of the baggage door approximately at station 90; two eyebolts are installed near the top of the forward surface of the wheel well slightly inboard of each sidewall approximately at station 108; and two eyebolts are located on the bulkhead below the aft window near each sidewall approximately at station 108.

When the cabin floor (baggage area 1) only is utilized for baggage, the two floor-mounted eyebolts and the two eyebolts on the forward surface of the wheel well (or the two eyebolts below the aft window) may be used, depending on the height of the baggage. When baggage is carried on the wheel well (baggage area 2), the eyebolts on the forward surface of the wheel well and the eyebolts below the aft window should be used. When baggage is loaded in both areas, all six eyebolts should be utilized.

A placard on the baggage door defines the weight limitations in the baggage areas.

### 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 is located at station 48.0.
  2. The rear cabin wall (approximate station 108) or aft baggage wall (approximate station 124) can be used as convenient interior reference points for determining the location of baggage area fuselage stations.

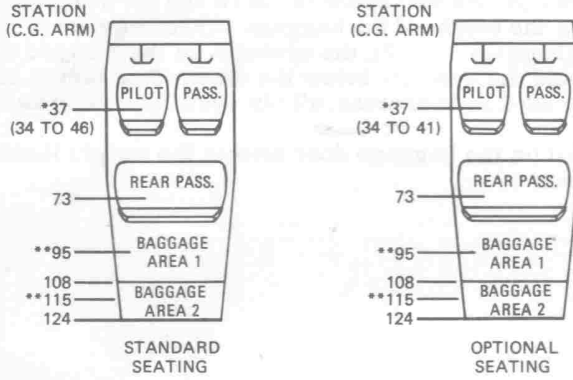
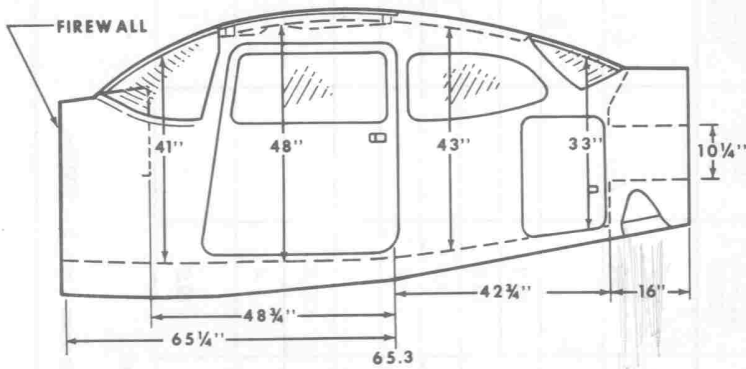


Figure 6-3. Loading Arrangements

CABIN HEIGHT MEASUREMENTS



DOOR OPENING DIMENSIONS

	WIDTH (TOP)	WIDTH (BOTTOM)	HEIGHT (FRONT)	HEIGHT (REAR)
CABIN DOOR	32"	37"	40"	41"
BAGGAGE DOOR	15 1/4"	15 1/4"	22"	21"

— WIDTH —  
● LWR WINDOW LINE  
\* CABIN FLOOR

CABIN WIDTH MEASUREMENTS

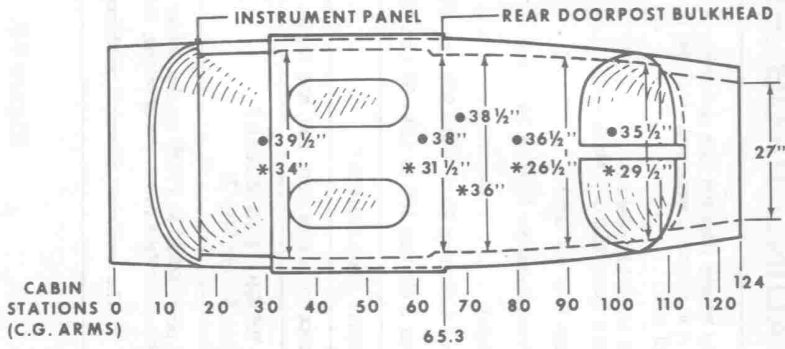


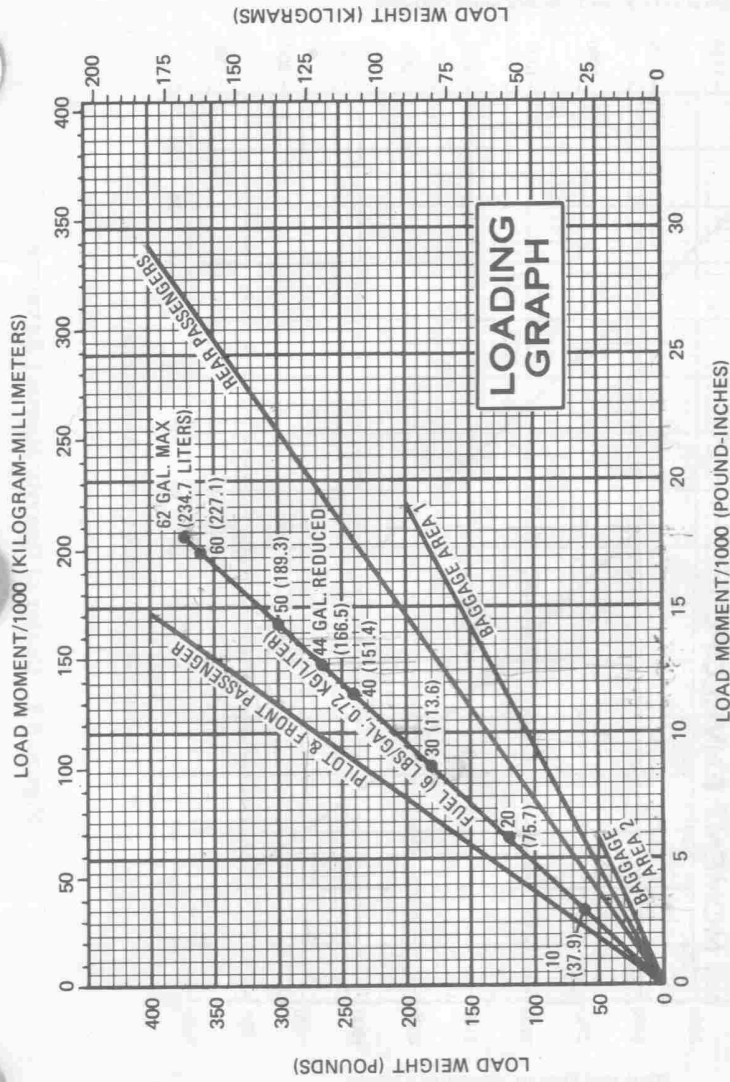
Figure 6-4. Internal Cabin Dimensions



SAMPLE AIRPLANE	YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb. - ins. /1000)
<p><b>SAMPLE LOADING PROBLEM</b></p> <p>1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil) . . . . .</p> <p>2. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (62 Gal. Maximum) . . . . .</p> <p>3. Pilot and Front Passenger (Station 34 to 46) . . . . .</p> <p>4. Rear Passengers . . . . .</p> <p>5. * Baggage Area 1 (Station 82 to 108 - 200 Lbs. Max.) . . . . .</p> <p>6. * Baggage Area 2 (Station 108 to 124 - 50 Lbs. Max.) . . . . .</p>	1630.4	62.5
	<del>1622.4</del>	<del>62.6</del>
	264	12.7
	340	12.6
	340	24.8
	90	8.6
7. RAMP WEIGHT AND MOMENT	2658	120.3
8. Fuel allowance for engine start, taxi, and runup	-8	-4
9. TAKEOFF WEIGHT AND MOMENT (Subtract Step 8 from Step 7)	2650	119.9
10. Locate this point (2650 at 119.9) 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 areas 1 and 2 is 200 lbs.

Figure 6-5. Sample Loading Problem



NOTES: Line representing adjustable seats shows the pilot or passenger center of gravity on adjustable seats positioned for an average occupant. Refer to the Loading Arrangements diagram for forward and aft limits of occupant C.G. range.

Figure 6-6. Loading Graph

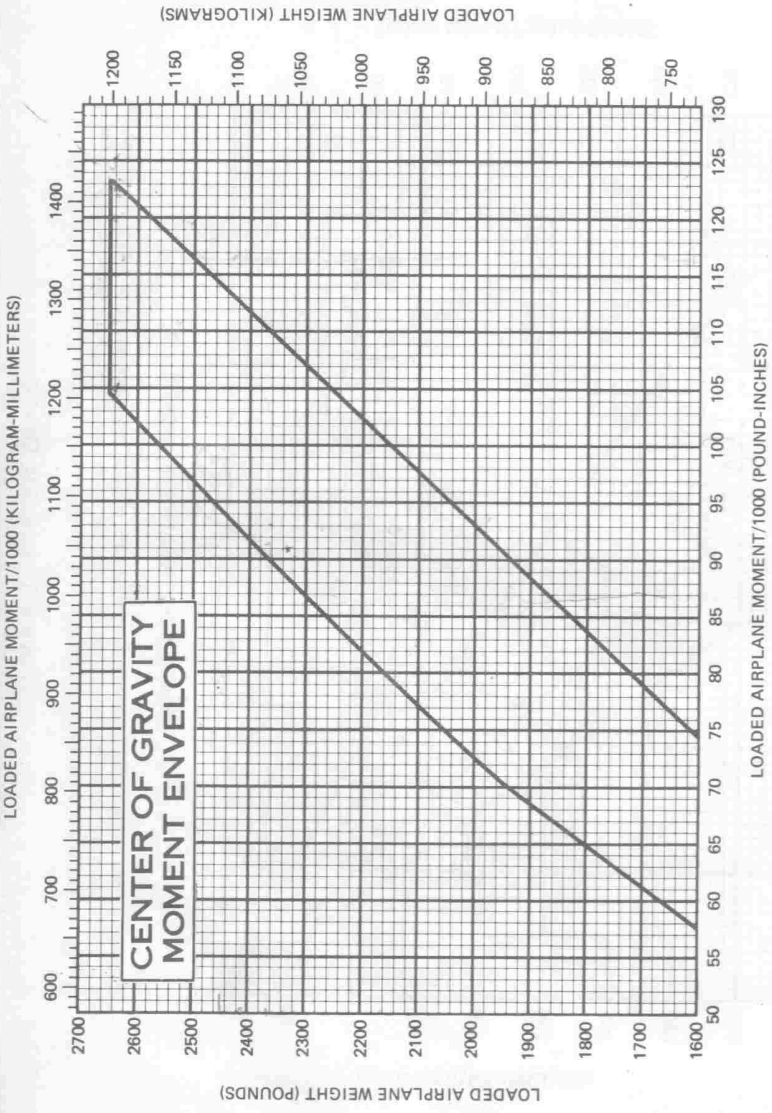


Figure 6-7. Center of Gravity Moment Envelope

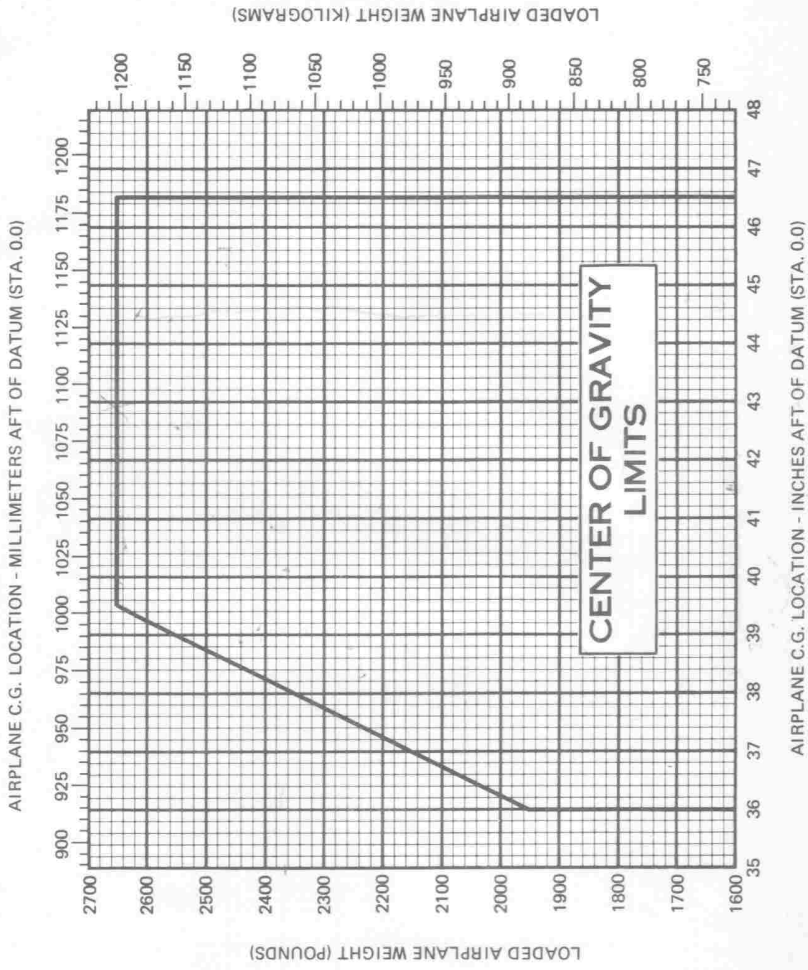


Figure 6-8. Center of Gravity Limits

## 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.

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
A01-R	A. POWERPLANT & ACCESSORIES ENGINE, LYCOMING O-360-FLA6 (INCLUDES ELECTRIC STARTER, VACUUM PAD AND OIL FILTER	2450000	302.5	-22.5
A05-R	FILTER, INDUCTION AIR	C294510-0501	1.0	-11.0
A09-R	ALTERNATOR, 28 VOLT 60 AMP	C611503-0102	10.7	-32.0
A33-R	PROPELLER, CONSTANT SPEED	C161008-0111	15.8	-43.7
A37-R	GOVERNOR, PROPELLER	C161031-0112	3.0	-32.5
A41-R	SPINNER INSTALLATION	2450002	3.4*	-43.8*
A61-S	VACUUM SYSTEM DOME VACUUM SYSTEM INSTALLATION VACUUM PUMP FILTER GAUGE	2406001 C431003-0101 1201075	2.3 4.3*	-46.4*
A70-S	RELIEF VALVE & REGULATOR	1.8	1.8	-10.7
A73-D	PRIMER SYSTEM, ENGINE (3 CYLINDER) OIL QUICK DRAIN VALVE (NET CHANGE)	0.2 C668509-0101 C482001-0401 2450000 1701015	0.1 0.1 0.4 0.5 0.0	-14.2 16.5 16.5 -12.0 -
B01-R	B. LANDING GEAR & ACCESSORIES WHEEL, BRAKE & TIRE ASSEMBLY, 15X6.00X6 MAIN (SET OF 2) WHEEL ASSEMBLY (EACH) BRAKE ASSEMBLY (LEFT) BRAKE ASSEMBLY (RIGHT) TIRE, 6-PLY BLACKWALL (EACH) TUBE (EACH)	C163019B0203 C163006-0101 C163032-0115 C163032-0116 C262006-0101 C262026-0101 C262018-0101 C163018-0104 C163005-0201 C262003-0202 C262023-0101	36.4* 8.5 1.9 1.9 6.6 1.2 8.6* 2.4 4.7 1.2	58.5* 59.0 54.5 54.5 59.0 59.0 -4.9* -4.9 -4.9 -
B04-R	WHEEL & TIRE ASSEMBLY, NOSE WHEEL ASSEMBLY, MCCAULEY TIRE, 6 PLY BLACKWALL			
C01-R	C. ELECTRICAL SYSTEMS BATTERY, 24 VOLT (STANDARD CAPACITY)	C614002-0101	23.2	130.0

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
C01-O	BATTERY, 24 VOLT (HEAVY DUTY)	C614002-0102	25.2	130.0
C04-R	ALTERNATOR CONTROL UNIT WITH LOW VOLTAGE SENSING	C611005-0101	0.4	33.4
C07-A	GROUND SERVICE PLUG RECEPTACLE	2401005	2.7	126.0
C16-O	HEATED PILOT SYSTEM POST (NET CHANGE)	9422255-7	0.6	24.4
C22-A	LIGHTS, INSTRUMENT POST (REQUIRES E34-O)	2413120	0.5	17.3
C25-A	LIGHTS, INSTALLATION, CONTROL WHEEL MOUNTED MAP (REQUIRES E89-1)	0501068	0.1	21.5
C28-S	LIGHT INSTALLATION, MAP & INSTRUMENT FLOOD-DOORPOST MOUNTED	0700149	0.3	32.0
C31-A	LIGHTS, COURTESY (SET OF TWO)	0521101	0.5	61.0
C40-A	DETECTORS, NAVIGATION LIGHT (SET OF TWO)	0701013	0.0	-
C43-A	LIGHT INSTALLATION, OMNIFLASH BEACON	2406002	1.4*	204.7*
	BEACON LIGHT IN FIN TIP IN VERTICAL TAIL	C621001-0102	0.4	242.5
	FLASHER - MEMCOR (7174)	C594502-0102	0.6	205.1
C46-A	FLASHER POWER SUPPLY IN VERTICAL TAIL	DR93-6	0.2	208.3
	LIGHT INSTALLATION, WING TIP SROBE	0501027-1	3.4*	43.3*
	FLASHER POWER SUPPLY, WING TIP RIB (2)	C622008-0102	2.3	47.0
C49-S	SROBE LIGHT, WING TIP (SET OF TWO)	C622006-0107	0.2	40.8
	LIGHTS, LANDING, COML MOUNTED - DUAL BULB	0501032	4.1	-18.6
D. INSTRUMENTS				
D01-R	INDICATOR, AIRSPEED	C661064-0108	0.9	16.9
D01-O	INDICATOR, TRUE AIRSPEED	2401012	0.7	16.3
D04-A	STANDARD AIR, ALTERNATE SOURCE	0501017	0.2	15.5
D07-R	ALTIMETER, SENSITIVE (INCHES OF MERCURY)	C661071-0101	0.7	14.0
D07-O-1	ALTIMETER, SENSITIVE (FEET & MILLIBARS) (50 FT. MARKINGS)	C661071-0102	0.7	14.0
D07-O-2	ALTIMETER, SENSITIVE (FEET & MILLIBARS) (20 FT. MARKINGS)	C661025-0102	0.7	14.0
D10-A	ALTIMETER, INSTALLATION - DUAL	2001015	0.8	14.0
D16-A-1	ALTIMETER, ENCODING (REQUIRES RELOCATION OF REGULAR TYPE ALTIMETER)	0501049	3.0	14.8
D16-A-2	ALTIMETER, ENCODER (BLIND, DOES NOT REQUIRE INSTRUMENT PANEL MOUNTING)	2401009	1.5*	14.4*
D22-A	GAGE, CARBURETOR AIR TEMPERATURE	C744001-0101	1.3	14.6
D23-S	CLOCK, ELECTRIC (DIGAL READOUT)	S-1311-4	0.3	14.0
D25-O	CLOCK, ELECTRIC (DIGITAL READOUT)	C664508-0102	0.3	16.3
		C664511-0101	0.3	16.3

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D28-R	COMPASS INSTALLATION, MAGNETIC	0513262	0.5	26.0
D38-R	INSTRUMENT CLUSTER, LH & RH FUEL	C669561-0101	0.4	16.2
D41-R	INSTRUMENT CLUSTER, CYL HEAD TEMP OIL TEMP	C669561-0101	0.4	16.2
D43-R	INDICATOR, ECONOMY MIXTURE (E.G.T.)	2401008	0.5	16.2
D49-A	GAGE, MANIFOLD PRESSURE	C662033-0104	0.6	17.8
D55-R	GYRO INSTALLATION, ATTITUDE & DIRECTIONAL (NON NAV-O-MATIC)	2406001	1.1*	13.6
D64-S	DIRECTIONAL INDICATOR	C661075-0104	2.7	14.7
D64-O	ATTITUDE INDICATOR	C661075-0101	2.5	14.3
D67-A	GYRO INSTALLATION FOR 300 NAV-O-MATIC (ARC)	2406001	2.9*	13.3
D82-S	DIRECTIONAL INDICATOR	40760-0104	3.3	14.3
D85-R	ATTITUDE INDICATOR	C661075-0101	2.5	14.3
D88-S-1	RECORDER, FLIGHT HOUR	0501052	0.5	6.3
D88-S-2	GAGE, OUTSIDE AIR TEMP (C668507-0101)	0500221	0.1*	28.0
D88-O	TACHOMETER INSTALLATION	2406000	1.0	13.0
D91-A	RECORDING TACH HEAD	C668020-0124	0.6	15.5
	TURN COORDINATOR (28 VOLT OPERATION)	C661003-0505	1.3	15.8
	TURN COORDINATOR (10 TO 30 VOLT)	C661003-0506	1.3	15.8
	TURN COORDINATOR (FOR AUTO-PILOT USE)	42320-0028	1.3	15.8
	INDICATOR, VERTICAL SPEED	C661080-0101	1.0	15.7
E. CABIN ACCOMMODATIONS				
E05-R	SEAT, ADJUSTABLE FORE & AFT, PILOT	0514168	12.6	44.0
E05-O	SEAT, INFINITE ADJUSTING, CO-PILOT	0514171	12.6	41.5
E07-S	SEAT, ADJUSTABLE FORE & AFT, CO-PILOT	0514171	12.6	44.0
E07-O	SEAT, INFINITE ADJUSTING, CO-PILOT	0514171	12.6	41.5
E08-S	SEAT, REAR (ONE PIECE BACK CUSHION)	0514169	22.0	79.5
E08-O	SEAT, REAR (TWO PIECE BACK CUSHION)	0514169	22.0	79.5
E19-R	BELT ASSEMBLY, PILOT SEAT	S-2275-103	0.6	37.0
E19-S	SHOULDER HARNESS ASSEMBLY, PILOT	S-2275-201	0.6	37.0
E19-O	INERTIA REEL SEAT BELT INSTALLATION, PILOT & CO-PILOT (NET CHANGE)	0501046-1	2.0	82.0
E27-S	BELT & SHOULDER HARNESS ASSY, CO-PILOT	S-2275-3	1.6	37.0
E27-O	BELT & SHOULDER HARNESS ASSY, CO-PILOT	S-1746-13	2.0	70.0
E33-O	BELT & SHOULDER HARNESS ASSY, 2ND ROW (2)	S-2275-8	3.0	70.0
E33-S	CARPETING, BLACK, NET CHANGE FOR STANDARD	0515034	0.0	1.0
E33-A-1	DELUXE GLARESHIELD (NET CHANGE) SEAT COVERING, VINYL, NET CHANGE		1.0	1.0

\* C669560-0108 on airplanes modified by Service Kit SK172-85.



ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
E35-A-2	SEAT COVERING, LEATHER, NET CHANGE	CE5-1151	2.0	62.0
E37-A	WINDOWS, RIGHT DOOR HINGED (NET CHANGE)	0511075	0.9	47.9
E39-A	WINDOWS, OVERHEAD CABIN TOP (NET INCREASE)	0511800	0.7	50.9
E43-A	VENTILATION SYSTEM, REAR SEAT	0700322	1.0	15.5
E49-A	CUP HOLDER, RETRACTABLE (SET OF TWO)	0501023	1.5	147.0
E50-A	HEADREST, FRONT (SET OF TWO)	12115073	1.5	86.0
E51-A	HEADREST, REAR (SET OF TWO)	12115073	1.5	32.8
E55-S	SUN VISORS, REAR (SET OF 2)	0514166	0.9	95.0
E57-D	TINTED GLASS (ALL AROUND) (NET CHANGE)	0500267	0.0	1.0
E59-R	BAGGAGE TIE DOWN NET	20115009-8	0.5	1.0
E71-A	CONTROLS, CARGO TIE DOWN	2401010	1.0	4.9*
E85-A	CONTROLS, DUAL (CO-PILOT'S WHEEL, PEDALS AND TOE BRAKES)	2401007	4.9*	12.4*
E87-S	CONTROL WHEEL WITH PROTECTIVE PADDING	2467000-1	2.0	26.0
E88-A	RUDDER TRIM SYSTEM	0513290	1.1	6.8
E89-A	CABIN AIR CIRCULATING FAN (CANNOT BE USED WITH E43-A)	0501072	1.9	9.4
	ALL PURPOSE CONTROL WHEEL - NET CHANGE	0501068	1.0	100.0
			0.0	-
	F. PLACARDS, WARNINGS & MANUALS			
F01-R	PLACARD, OPERATIONAL LIMITATIONS VFR DAY	0505087	0.0	-
F01-O-1	PLACARD, OPERATIONAL LIMITATIONS VFR DAY-NIGHT	0505087	0.0	-
F01-O-2	PLACARD, OPERATIONAL LIMITATIONS IFR DAY-NIGHT	0505087	0.0	-
F07-R	STALL & GEAR WARNING BLACKBOX (REQUIRES ITEM H61-R FOR AUDIBLE OPERATION)	1270733	0.5	-
F10-S	PILOTS CHECK LIST (STANDARD A/C) (STOWED)	-	0.0	-
F10-O-1	PILOTS CHECK LIST (200A NAV-O-MATIC)	-	0.0	-
F10-O-2	PILOTS CHECK LIST (300A NAV-O-MATIC)	-	0.0	-
F16-R	PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL	D1174-13PH	0.5	-
	G. AUXILIARY EQUIPMENT			
G07-A	RINGS, AIRPLANE HOISTING	0541115	1.1	49.1

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CESSNA  
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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
G13-A	CORROSION PROOFING, INTERNAL	2401006	10.0	77.0
G16-A	STATIC DISCHARGER, INSTALLATION (SET OF 10)	0501048	14.3	2
G19-A	STABILIZER ABRASION BOOTS	0500041	2.7	208.0
G22-A	TOW BAR (STOWED)	0501019	1.6	90.0
G25-S	PAINT SCHEME OVERALL EXTERIOR COVER	2404001	12.5*	90.4*
	OVERWALL BASE WHITE		1	90.5
	STRIPES CORROSION RESISTANT CONTROL (NET CHANGE)	0500036	0.0	88.8
G31-A	CABLES, CORROSION RESISTANT CONTROL (NET CHANGE)		0.0	-
G55-A-1	FIRE EXTINGUISHER, STANDARD SEATING	2401011-1	3.0	45.5
G55-A-2	FIRE EXTINGUISHER, VERFICAL ADJ SEAT	2401011-2	3.2	29.0
G58-A	STEPS AND HANDLE, REFUELING	2413123	1.7	17.8
G67-A	RUDDER PEDAL EXTENSIONS, REMOVABLE - SET OF 2 (STOWABLE - INSTALLED ARM SHOWN) (NOT FACTORY INSTALLED)	0701048	2.3	8.0
G88-A	WINTERIZATION KIT INSTALLATION, ENGINE COVER PLATE, FWD COWL (INSTALLED) COVER PLATE, FWD COWL (STOWED)	--	1.0*	-24.3*
		--	0.4	-95.0
		--	0.4	
	H. AVIONICS & AUTOPILOTS			
H01-A	CESSNA 300 ADF INSTALLATION RECEIVER WITH BFD (R-546E-1) INDICATOR (IN-346A) SENSE ANTENNA INSTALLATION LOOP ANTENNA INSTALLATION RECEIVER MOUNT, WIRES AND MISC ITEMS	3910159-25 41240-0001 4080-1001 0570400-632	8.0*	19.9*
H04-A	DME INSTALLATION, NARCO RECEIVER (DME-190) MOUNT ASSY	3910166-14 3312-406	7.5*	18.5*
H05-A	FOSTER 511 R-NAV INSTALLATION ANTENNA	3910203-18	6.3	11.3
H07-A	CESSNA 400 GLIDESLOPE (INCLUDES VOR/ILS INDICATOR - NET CHANGE FOR VOR/LOC) RECEIVER (R-4438) ANTENNA (LOCATED UPPER WINDSHIELD) VOR/ILS INDICATOR (IN-386A) (INDICATOR WT NET CHANGE, ACTUAL WT IS 1.7 LBS)	3910157-18 42100-0000 1200098 46860-2000	0.2 2.1 0.2 0.1	11.8* 14.5 105.6*

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H08-A-1	REMOTE RECEIVER SHELF INSTALLATION AUTO RADIAL CENTERING INDICATOR (ARC/LDC) EXCHANGE FOR VOR/LOC INDICATOR IN ITEM H22-A AND H25-A WT NET CHANGE ARC/LDC INDICATOR DELETED VOR/LOC CENTERING INDICATOR (ARC/ILS) EXCHANGE FOR VOR/ILS INDICATOR USED WITH H07-A ONLY (WT NET CHANGE) ARC/ILS INDICATOR ADDED VOR/ILS INDICATOR DELETED PANTRONICS P110-A HF TRANSCEIVER (REMOTE RACK IS REQUIRED IF NOT PREVIOUSLY INSTALLED)	3940266-1 3910196-1  46860-1200 46860-1000 3910196-2  46860-2200 46860-2000 3910193-26	1.0* 0.2*  1.8 -0.1*	134.6* 14.7 14.7* 14.7
H11-A-1	WITH NO REMOTE RACK REQUIRED WITH NO REMOTE RACK (INSTALLED W/H07-A TRANSCEIVER (PANEL MOUNTED) ANTENNA LOAD BOX HF POWER SUPPLY (REMOTE) POWER & SIGNAL CABLES ANTENNA INSTALLATION 351 IN. LONG ANTENNA 400 MARKER BEACON 3RD UNIT (PREVIOUSLY INSTALLED NOT WITH REMOTE UNIT RACK WITH NO REMOTE UNIT RACK ANTENNA LOAD BOX POWER SUPPLY (REMOTE) TRANSCEIVER (PANEL MOUNTED) ANTENNA INSTALLATION 351 IN. LONG CESSNA 400 MARKER BEACON RECEIVER (R-602A) ANTENNA, L SHAPED ROD CESSNA 300 TRANSPONDER TRANSCEIVER (RT-359A) ANTENNA CESSNA 400 TRANSPONDER TRANSCEIVER (RT-459A) ANTENNA CESSNA 300 NAV/COM 720 CH COM 1ST UNIT (REQUIRES H34-A TO BE OPERATIONAL) RECEIVER-TRANSCIEVER (RT-385A)	C582103-0102 C589502-0201 C582103-0301 3950149 3960117 3910158-43  99816 99683 99681 3960117 3910164-18 42410-5128 0770681-1 3910127-29 41420-0028 42940-0000 3910128-28 41470-1028 42940-0000 3910183 46660-1000	22.8* 21.8* 4.2 4.2 8.5 3.8 0.3 -  23.0* 22.0* 4.9 8.5 4.6 0.3* 2.7 0.7 4.0* 2.7 0.3* 4.2* 2.9 0.3* 8.3* 5.5	97.0* 95.3* 10.4 131.9 139.5 162.0 137.5 -  99.7* 98.1* 132.0 139.5 10.4 137.5* 134.5* 11.8 125.8* 11.1 127.0 25.1 11.0 11.0 11.9 11.0 11.9
H11-A-2				
H13-A				
H16-A-1				
H16-A-2				
H22-A				

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

CESSNA  
MODEL 172RG

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H25-A	VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC ITEMS CESSNA 300 NAV/COM 720 CH COM 2ND UNIT (REQUIRES H37-A TO BE OPERATIONAL) RECEIVER-TRANSMITTER (RT-385A) VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC ITEMS EMERGENCY LOCATOR & TRANSMITTER TRANSMITTER (D & M DMELT-6-1) ANTENNA EMERGENCY LOCATOR TRANSMITTER (USED IN CANADA)	46860-1000 3910183 46660-1000 46860-1000 0470419-3 C589511-0117 C589511-0109 0470419-4 C589511-0113 C589511-0109 3910182-25 3930144-2 42320-0028 2470009-4 0522632-4	1.6 8.3* 5.5 1.6 3.5* 3.3 0.1 3.5 3.3 0.1 9.2* 1.6 0.0 0.4 6.1	14.7 10.0 11.9* 11.5 14.0 10.0 116.5* 116.4 112.0 116.5* 116.4 122.0 151.0* 13.1 - 4.0 68.1
H31-A-1	NAV-O-MATIC 200A CONTROL PANEL & MOUNT (CA-2958) TURN COORDINATOR (NET CHNG) (G-300A) RELAY INSTALLATION (SERVO IS 3.9 LBS AT 68.9 INCHES) (PA-495)	3910163-25 3930145-19 0513398 42320-0028 2470009-4 0522632-5	10.3* 1.8 0.6 0.0 0.4 6.1	46.4* 13.1 11.3 - 0 68.1
H31-A-2	NAV-O-MATIC 300A (AF395) GYRO INSTALLATION (D64-A-2) (NET CHNG) TURN COORDINATOR (NET CHANGE) RELAY INSTALLATION (SERVO IS 3.9 LBS AT 68.9 INCHES) (PA-495)	3910163-25 3930145-19 0513398 42320-0028 2470009-4 0522632-5	10.3* 1.8 0.6 0.0 0.4 6.1	46.4* 13.1 11.3 - 0 68.1
H34-A	MISC WIRING & HARDWARE ITEMS BASIC AVIONICS KIT INSTALLATION RADIO COOLING INSTALLATION NOISE FILTER CABLE, LH VHF COM ANTENNA CABLE, LH VHF OMNI ANTENNA COM ANTENNA, LH VHF MIKE INSTL, HAND HELD AUDIO CONTROL PANEL INSTL HEADPHONE INSTL, STOWED ARM SHOWN)	42730-4008 3910186-17 3930208 3940148-2 3950149-10 3950149-8 3960102-10 3960113-1 3970124-7 3970125-4 3970167-1 3970167-1 3950149-15 3960111-12 3960113-2	1.5* 5.8* 1.0 1.0 0.4 0.6 0.8 0.4 0.3 0.2 1.0 1.0 0.4 0.4 0.2	25.6* 55.6* 10.2 -19.0 27.8 116.0 220.8 62.4 14.2 2.2 12.5* 12.5* 27.8 62.4
H37-A	COM ANTENNA & OMNI COUPLER KIT COM ANTENNA CABLE, RH VHF OMNI ANTENNA COUPLER (SIGNAL SPLITTER) COM ANTENNA, RH VHF	3910185-0* 3950149-9 3960111-12 3960113-2	1.0* 0.4 0.2 0.4	12.5* 27.8 62.4 62.4

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H43-A H55-A	AVIONICS OPTION D NAV-O-MATIC WING PROV. MIKE-HEADSET COMBO. INSTL (HEADSET STOWED) (REQUIRES ALL PURPOSE CONTROL WHEEL, ITEM E89-A)	0522632-2 C596530-0101	1.7 0.3	68.2 13.0
H56-A	MICROPHONE/HEADSET, PADDED (STOWED) (REQUIRES ALL PURPOSE CONTROL WHEEL, ITEM E89-A)	C596531-0101	1.1	13.0
H61-R	CABIN SPEAKER AND GEAR WARNING HORN	C596510-0101	1.9	38.5
J01-A	J. SPECIAL OPTION PACKAGES  CUTLASS RG II EQUIPMENT CONSISTS OF ITEMS C16-A HEATED PITOT SYSTEM C31-A COURTESY LIGHTS C40-A NAV LIGHT DETECTORS C43-A FLASHING BEACON LIGHT D01-0 TRU AIR SPEED IND. (NET CHANGE) D04-A STATIC AIR, ALTERNATE SOURCE E89-A DUAL CONTROLS H01-A CESSNA 300 ADF (R-543E) H10-A-1 300 TRANSPONDER (RT-359A) H12-A NAV/COM 385 VOR/LOC H28-A-1 EMERGENCY LOCATER TRANSMITTER H34-A BASIC AVIONICS KIT NAV-PAC INSTALLATION (R-4438) H07-A GLEDSLOPE (R-4438) H13-A CESSNA 400 MARKER BEACON H25-A 300 NAV/COM, 2ND UNIT	0422355-7 0521101 0701013 2406002 2401012 0501017 2401007 3910159-2 3910127- 3910183 0470419  3910157 3910127-17	37.3* 0.6 NEGL 1.4 0.1 0.2 4.9 8.0 4.0 3.5 3.5 17.8* 5.9 2.3 8.3	39.9* 24.4 61.0 - 204.7 18.1 15.5 12.4 19.9 25.8 11.5 11.5 53.6 47.2* 105.6 34.5 11.9
J04-A				