

CESSNA  
MODEL 172N

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

# SECTION 6 WEIGHT & BALANCE/ EQUIPMENT LIST

## TABLE OF CONTENTS

	Page
Introduction . . . . .	6-3
Airplane Weighing Procedures . . . . .	6-3
Weight And Balance . . . . .	6-6
Equipment List . . . . .	6-13



## 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.

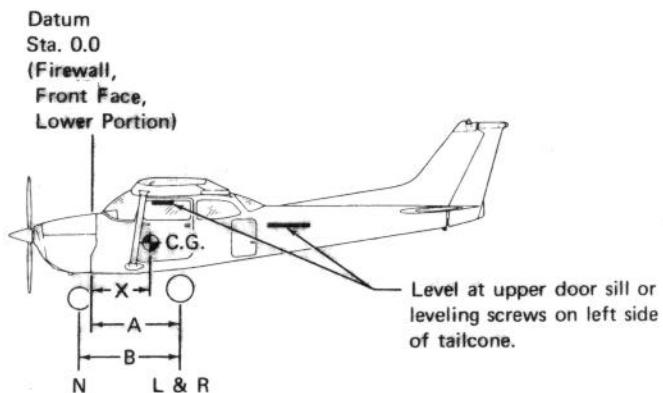
It is the responsibility of the pilot to ensure that the airplane is loaded properly.

## 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 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.

**SECTION 6**  
**WEIGHT & BALANCE/**  
**EQUIPMENT LIST**

**CESSNA  
MODEL 172N**



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

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

Item	Weight (Lbs.)	X C.G. Arm (In.)	Moment/1000
Airplane Weight (From Item 5, page 6-3)			(Lbs.-In.)
Add Oil:			
No Oil Filter (6 Qts at 7.5 Lbs/Gal)		-14.0	
With Oil Filter (7 Qts at 7.5 Lbs/Gal)		-14.0	
Add Unusable Fuel:			
Std. Tanks (3 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

## SAMPLE WEIGHT AND BALANCE RECORD

## **AMPLE WEIGHT AND BALANCE RECORD**

**CESSNA  
MODEL 172N**

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**

1 July 1979

6-5

Figure 6-2. Sample Weight and Balance Record

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**

**CESSNA  
MODEL 172N**

**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.

CESSNA  
MODEL 172N

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

**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 and long range 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.

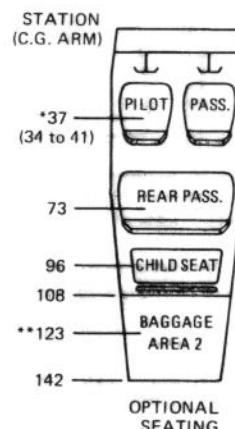
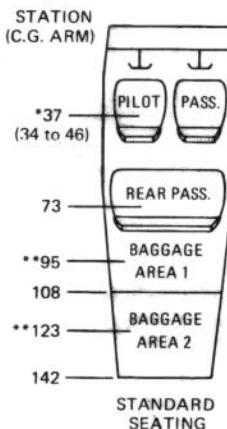
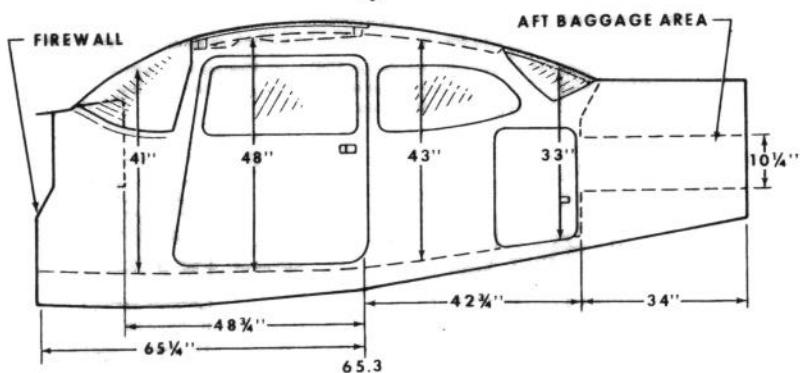


Figure 6-3. Loading Arrangements

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**

**CESSNA  
MODEL 172N**

**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**

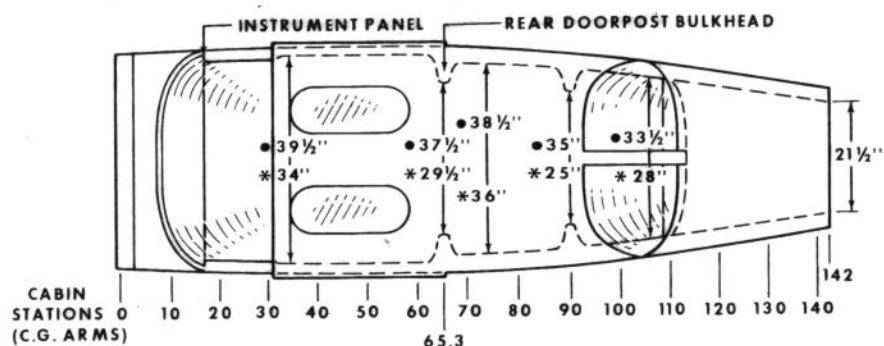


Figure 6-4. Internal Cabin Dimensions

**CESSNA  
MODEL 172N**

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**

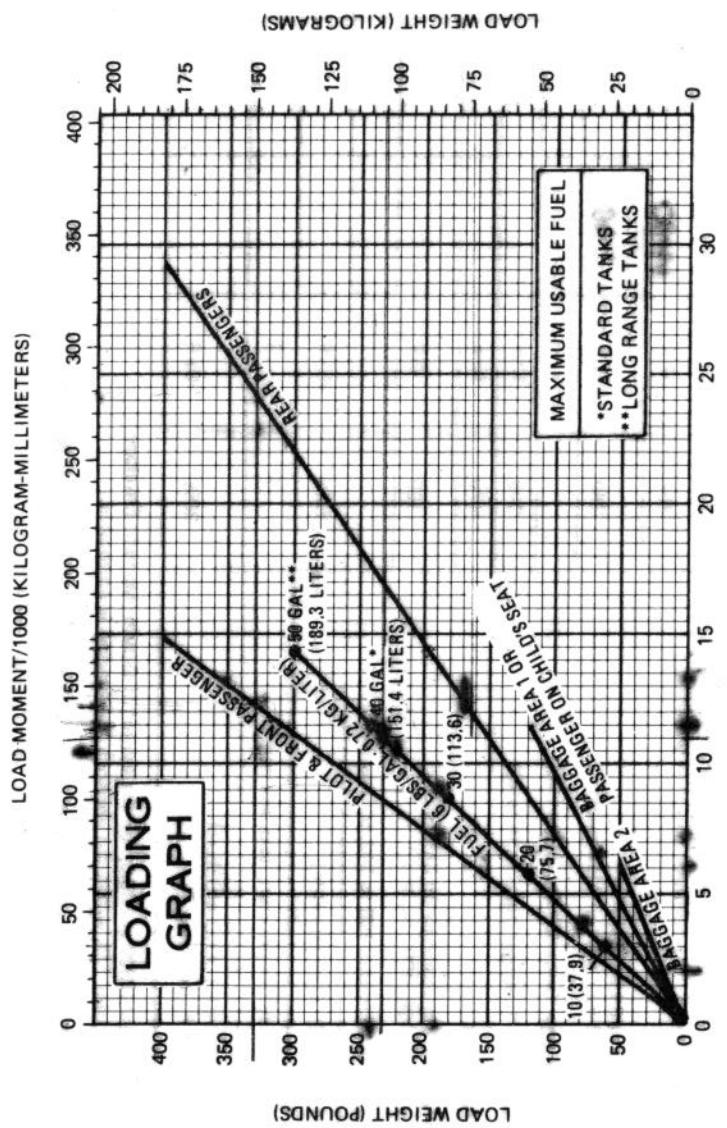
<b>SAMPLE LOADING PROBLEM</b>		<b>SAMPLE AIRPLANE</b>	<b>YOUR AIRPLANE</b>
		Weight (lbs.)	Moment (lb.-ins. /1000)
1.	Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)	1454	57.6
2.	Usable Fuel (At 6 Lbs./Gal.)	240	11.5
	Standard Tanks (40 Gal. Maximum)		
	Long Range Tanks (50 Gal. Maximum)		
3.	Pilot and Front Passenger (Station 34 to 46)	340	12.6
4.	Rear Passengers	170	12.4
5.	* Baggage Area 1*or Passenger on Child's Seat (Station 82 to 108, 120 Lbs. Max.)	103	9.8
6.	* Baggage Area 2*(Station 108 to 142, 50 Lbs. Max.)		
7.	RAMP WEIGHT AND MOMENT	2307	103.9
8.	Fuel allowance for engine start, taxi, and runup	-7	.3
9.	TAKEOFF WEIGHT AND MOMENT (Subtract Step 8 from Step 7)	2300	103.6
10.	Locate this point (2300 at 103.6) 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 120 lbs.

Figure 6-5. Sample Loading Problem

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**

**CESSNA  
MODEL 172N**



**NOTE:** 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

CESSNA  
MODEL 172N

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

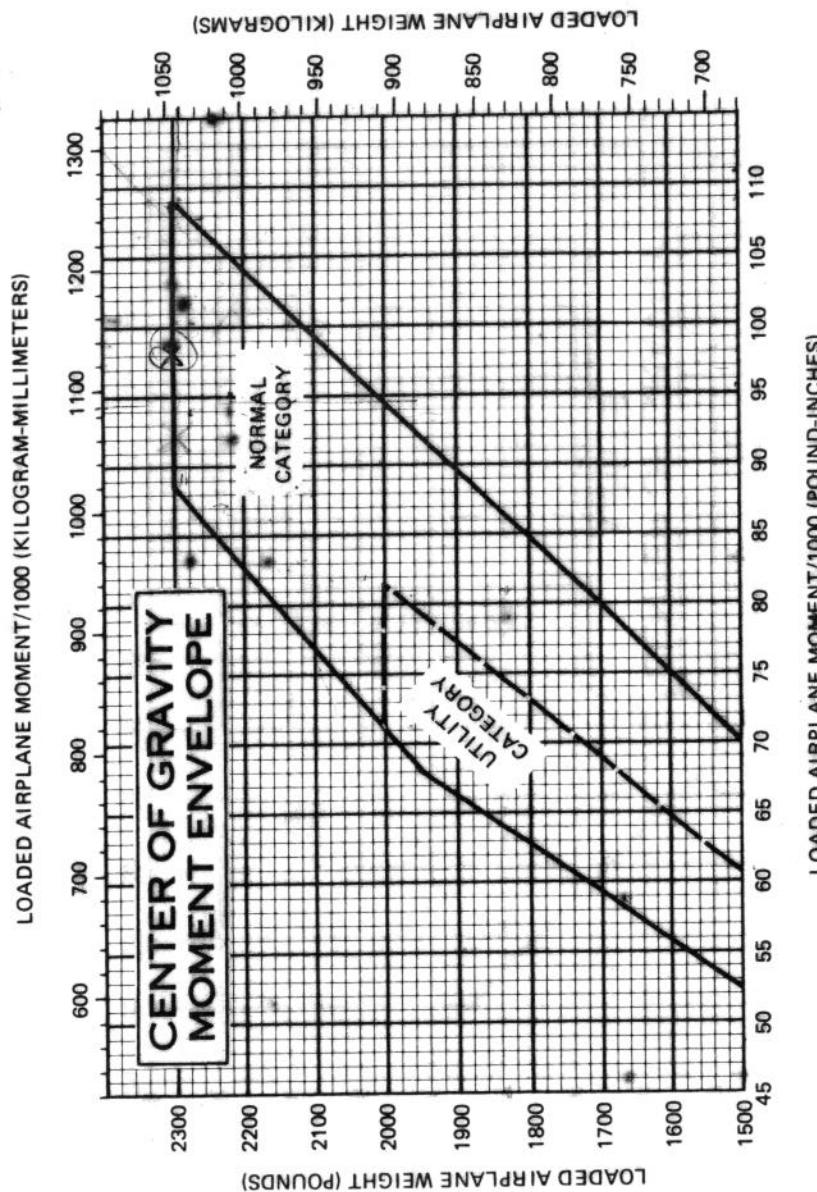


Figure 6-7. Center of Gravity Moment Envelope

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

CESSNA  
MODEL 172N

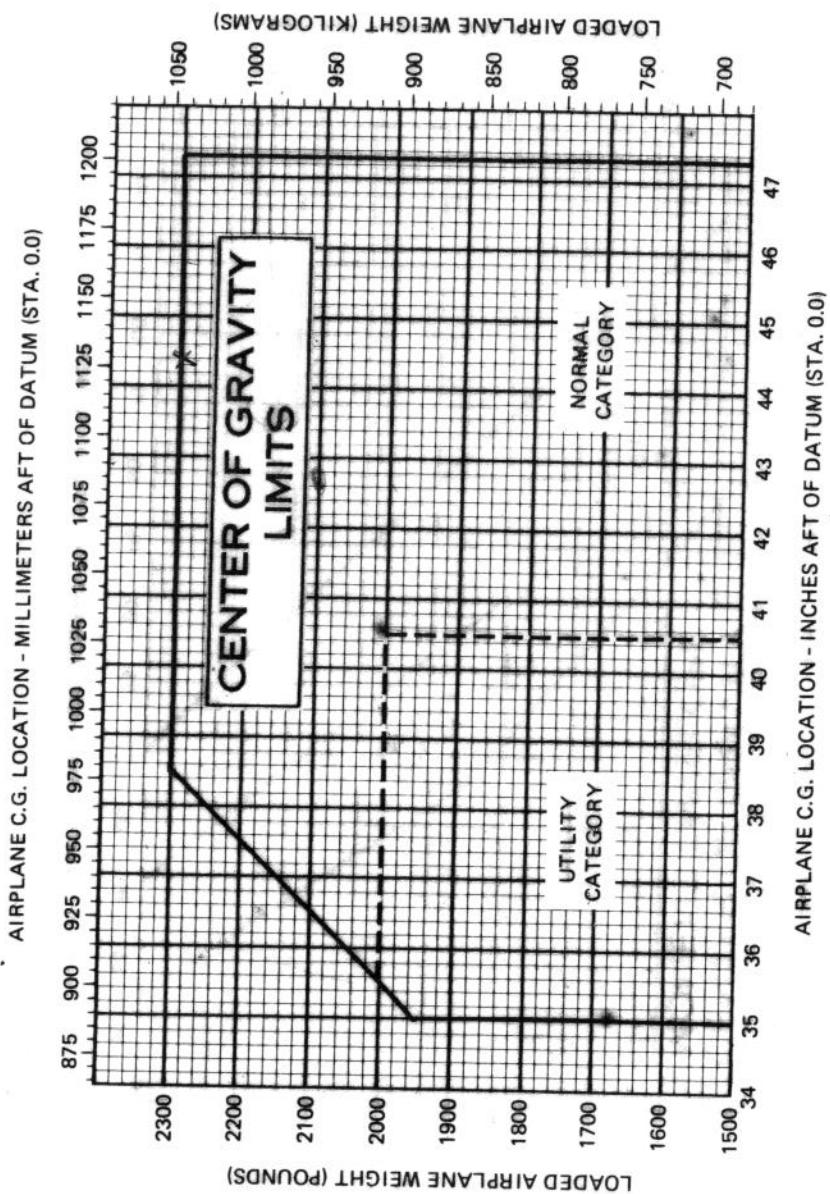


Figure 6-8. Center of Gravity Limits

## 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.

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

CESSNA  
MODEL 172N

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
A01-R	4. POWERPLANT & ACCESSORIES			
A05-R	ENGINE LYCOMING O-320-H2AD (INCLUDES PUMP PAD)	0550333	269.5*	-19.7*
A09-R	FILTER, ELECTRIC STARTER, VACUUM CARBURETOR	C294510-0301	0.5	-26.0
A17-R	SPARK PLUGS & CARBURETOR AIR FILTER	C611503-0102	1.7*	-29.0
	ALTERNATOR, 28 VOLTS	0550333	3.3*	-11.2*
	OIL COOLER, INSTALLATION	0550333	2.5	-11.7
A21-A	OIL FILTER INSTALLATION (SPIN-ON ELEMENT)	105599A	2.5	-1.5
A33-R	PROPELLER ASSY. (FIXED PITCH-LANDPLANE) (MCCAULEY)	C161001-0317	34.6*	-38.3*
	3.5 INCH PROP SPACER ADAPTER (MCCAULEY)	LC160/DTM7457	30.1	-38.7
A33-T	PROPELLER ASSY. (FIXED PITCH-FLOATPLANE) (MCCAULEY)	C4516	3.6*	-35.5
	3.5 INCH PROP SPACER ADAPTER (MCCAULEY)	C161201-0307	37.5*	-38.7
A41-R	SPINNER INSTALLATION, PROPELLER (MCCAULEY)	1A175/ETM8042	31.8	-35.5
	SPINNER DOME	C4516	3.6*	-41.4*
	FRONT SPINNER BULKHEAD	0550320	2.0*	-43.1
A61-S	AFT SPINNER BULKHEAD	0550326-8	1.2	-49.8
	VACUUM SYSTEM INSTALLATION	0550321-4	0.4	-37.3
	DRY VACUUM PUMP	05501054	0.3	-2.7*
	FILTER	C431003-0101	3.2*	-6.3
	VACUUM GAUGE	C1201075-2	1.8	-5.4
	RELIEF VALVE-REGULATOR	0668509-0101	0.1	1.6
A70-A	PRIMER SYSTEM, ENGINE THREE CYLINDER	C482001-0401	0.4	0.4
A73-A	ATEL QUICK DRAIN VALVE	05501056-1	0.3	-12.0
	(NET CHANGE)	1701015	0.0	
	3. LANDING GEAR & ACCESSORIES			
B71-R	WHEEL, BRAKE & TIRE ASSY. 6.00X5 MAIN (2)	C163018-0201	41.7*	57.8*
	WHEEL ASSY, MCCAULEY	C163005-0101	1.6	58.2
	BRAKE ASSY., MCCAULEY	(LEFT)	1.9	54.5
	BRAKE ASSY., MCCAULEY	C163032-0115	1.9	54.5
	TIRE, 4-PLY BLACKWALL	C163032-0114	8.5	58.2
	TIRE	C262203-0101	1.8	58.2
	WHEEL & TIRE ASSY. 5.00X5 NOSE	C262203-0102	8.7*	-6.3
	WHEEL ASSY., MCCAULEY	C163018-0101	2.4	-6.3
	(EACH)	C163005-0201		

CESSNA  
MODEL 172N

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
B10-S	TIRE, 4-PLY BLACKWALL FAIRING INSTALLATION, WHEEL NOSE WHEEL FAIRING MAIN WHEEL FAIRING ( EACH )	C262003-0102 C262023-0101 05541225-1	4.7 1.2* 1.0* 5.7	-6.8 -6.1* -4.9 60.3
	C. ELECTRICAL SYSTEMS			
C01-R	BATTERY, 24 VOLT, STANDARD DUTY	C614002-0101	23.2	-5.0
C04-R	BATTERY, 24 VOLT, HEAVY DUTY CONTROL UNIT.	C614002-0102	25.2	-5.0
C07-A	GROUND SERVICE PLUG RECEPTACLE	C611004-0101	0.4	3.5
C16-0	HEATING SYSTEM, PILOT POST (NEUTRAL)	0501064	2.7	-2.6
C22-A	LIGHTS, INSTRUMENT POST (REQUIRES INSTALLATION OF E34-O DELUXE GLARESHIELD)	0422355	0.6	24.4
C25-A	LIGHT, MAP, (CONTROL WHEEL MOUNTED) ( INSTALLED WITH E89-0 ONLY )	0513094	0.5	16.5
C28-S	LIGHT, MAP & INSTRUMENT PANEL FLOOD	0570087	0.2	21.5
C31-A	LIGHTS, COURTESY ENTRANCE (DOORPOST MOUNTED)	0700149	0.3	32.0
C40-A	DEFECTORS, NAVIGATION LIGHT (SET OF 2)	0521101	0.5	61.0
C43-A	LIGHT INSTALLATION, OMNIFLASH BEACON BEACON LIGHT ON FIN TIP	0701013-1, -2 0506063	NEGL	-7*
C46-A	FLASHER POWER SUPPLY RESISTOR (IMFCOR)	C621001-0101 C594502-0102 0R95-6	0.4 0.6 0.2	204.4* 205.1 208.3*
C49-S	LIGHT INSTALLATION, WING TIP STROBE STROBE POWER SUPPLY (SET OF 2 IN WING)	0501027	0.4*	43.0*
C49-S	LIGHT INSTALLATION, COWL MOUNTED LAMP, 250 WATT (G.E.)	C622008-0102 0570312	2.3	47.0*
C49-N	LIGHTS, DUAL COWL MOUNTED LAMP, 250 WATT (G.E.) ( EACH )	4594	0.5	43.0*
	D. INSTRUMENTS			
D01-R	INDICATOR, AIRSPEED INDICATOR, TRUE AIRSPEED	C661064-0102 0513279	0.6	16.2
D01-O			0.7	16.3

**SECTION 6**  
**WEIGHT & BALANCE/**  
**EQUIPMENT LIST**

**CESSNA**  
**MODEL 172N**

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
D04-A D07-R D07-0-1	STATIC AIR ALTERNATE SOURCE ALTIMETER (SENSITIVE) ALTIMETER (SENSITIVE (50 FT. MARKINGS)	C501017 C661027-0101 C661071-0102	0.2 0.7 0.7	15.5 14.0 14.0
D07-0-2	ALTIMETER (SENSITIVE) 20FT. (FEET AND MILLIBARS)	C661025-0102	0.7	14.0
D10-A D16-A-1	ALTIMETER (SENSITIVE) ENCODING ALTIMETER (REQUIRES RELOCATION OF REGULAR ALTIMETER)	2001015 0501049	0.8 3.0	14.5 14.0
D16-A-2	ENCODING ALTIMETER, FEET & MILLIBARS (REQUIRES RELOCATION OF REGULAR ALTIMETER)	0501049	3.0	14.0
D16-A-3	ALTITUDE ENCODER (BL IND. DOES NOT REQUIRE INSTRUMENT PANEL MOUNTING)	0501059	1.5*	14.4*
D19-R D22-A D25-S D25-0 D28-R D38-R D38-0	AMMETER GAGE, CARBURETOR AIR TEMPERATURE CLOCK, ELECTRIC COMPASS, MAGNETIC-INSTALLATION INSTRUMENT CLUSTER, LH & RH FUEL INSTRUMENT CLUSTER, LH & RH FUEL (USED WITH G92-0 ONLY)	S-13220-5 C664508-0102 C664511-0101 C6513262-1 C669537-0106 C669537-0101	0.3 1.0 1.0 0.4 0.4	16.5 14.0 16.3 16.3 16.5
D41-R D49-A D64-5	INSTRUMENT CLUSTER, OIL PRESS., OIL TEMP. GYRO, ATTITUDE & DIRECTIONAL INDICATORS (NON-NAV-O-MATIC)	C669535-0101 0501043-2 0501054-1	0.5 0.6 0.3*	16.5 17.8 13.6*
D64-0	DIRECTIONAL INDICATOR ATTITUDE INDICATOR GYRO INSTALLATION FOR 300 NAV-O-MATIC	C661075-0104 C661076-0101 C6691054-2	2.7 2.7 6.9*	14.7 14.3 13.4*
D67-A D82-S D85-R	ATTITUDE INDICATOR (ARCI), RFORDER INSTALLATION, FLIGHT HOUR GAGE, OUTSIDE AIR TEMPERATURE, ENGINE TACHOMETER INSTALLATION, ENGINE	40760-0101 C661076-0101 C501052-0101 C668507-0101	3.3 2.5 2.5 0.1*	14.3 14.3 16.3 12.1*
D88-S-1 D88-S-2 D88-0 D91-S	RECORDER, TURN COORDINATOR, 28 VOLT ONLY GAGE, OUTSIDE AIR TEMPERATURE, ENGINE TACHOMETER INSTALLATION, ENGINE INDICATOR, TURN COORDINATOR, 10-30 VOLT INDICATOR, TURN COORDINATOR, 10-30 VOLT (FOR USE WITH NAV-O-MATIC 200A AND 300A) INDICATOR, VERTICAL SPEED	C668020-0119 C661003-0505 C661003-0506 42329-0028 C661080-0101	0.7 1.3 1.3 1.3 1.7	16.0 15.8 15.8 14.6 14.9

CESSNA  
MODEL 172N

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
E. CABIN ACCOMMODATIONS				
F05-R	SEAT, ADJUSTABLE FORE & AFT PILOT	7514168	12.6	44.0
F06-O	SEAT, INFINITE ADJUSTABLE - PILOT	7514171	12.6	44.5
F07-S	SEAT, ADJUSTABLE FORE & AFT - CO-PILOT	7514168	12.6	44.0
F07-O	SEAT, INFINITE ADJUSTABLE - CO-PILOT	7514171	12.6	44.5
F09-S	SEAT, Q-FAR (ONE PIECE BACK CUSHION)	7514169	22.0	79.5
F09-O	SEAT, Q-FAR (TWO PIECE BACK CUSHION)	7514170	23.0	79.5
F15-R	PILOT LAP BELT ASSY	S-2275-103	1.0	37.0
F15-S	SHOULDER HARNESS ASSY, PILOT	S-2275-201	0.6	37.0
F19-O	SHOULDER HARNESS & INERTIA REEL INSTALLATION	0501046-1	2.0	82.0
F23-S	PILOT & CO-PILOT - REPLACES STD BELTS	S-2275-3	1.6	37.0
F27-S	BELT & SHOULDER ASSY - CO-PILOT	S-1746-39	2.0	37.0
F27-O	SEAT BELT & SHOULDER HARNESS ASSY	S-2275-8	3.2	78.0
F34-O	DELUXE GLARESHIELD (NET CHANGE)	7515034	1.0	21.0
F35-A-1	LEATHER SEAT COVERING (NET CHANGE)	CES-1151	2.0	62.0
F35-A-2	LEATHER & VINYL OR FABRIC COVER (NET CHANGE)	CES-1151	2.0	62.0
F37-O	WINDOWS, HINGED RH DOOR (NET CHANGE)	0501075	2.3	47.0
F39-A	OVERHEAD CABIN TOP (NET CHANGE)	0501800	0.9	47.0
F43-A	VENTILATION SYSTEM, REAR SEAT (INCT CCM-1)	7700322	1.7	60.0
F49-A	BEVERAGE CUP HOLDER (NET CHANGE)	0501023	0.1	45.0
F50-A	HEADREST, 1ST ROW (WT EACH)	1215073-11	0.7	86.0
F51-A	HEADREST, 2ND ROW (WT EACH)	1215073-11	0.7	86.0
F55-S	SUN VISORS (SET OF 2)	0514166	0.9	32.8
F57-A	WINDOWS, TINTED (CABIN, NET CHANGE)	0500267	0.0	-
F65-S	BAGGAGE NET	2015009-8	0.5	95.0
F71-A	RINGS, CARGO TIE-DOWN (STC'D) (USE ARM AS INSTALLED WITH CARGO)	0503042	1.0	-
F85-A	CONTROL SYSTEM INSTALLATION, DUAL	0513335	4.9	12.4
F87-A	RUDER TRIM SYSTEM	0513290	1.9	19.4
F88-A-1	CABIN AIR CONDITIONING SYSTEM-CHILLED AIR COMpressor ASSEMBLY	0501066	6.5*	43.2*
F89-A-2	EVAPORATOR (LOCATED ABOVE AFT BAGGAGE CONDENSOR (LOCATED UNDER SIDE FUSELAGE)	C413001-0101	20.2	429.0
F90-O	CART AIR CIRCULATING FAN CONTROL WHEEL, ALL PURPOSE • PILOT	0501072	9.1	123.5
		0570087	5.3	196.2
			10.0	107.0
			NEGL	-

**SECTION 6**  
**WEIGHT & BALANCE/**  
**EQUIPMENT LIST**

**CESSNA  
 MODEL 172N**

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
E92-R	(INCLUDES MIC SWITCH AND PANEL MOUNTED AUXILIARY MIC JACK) (NET CHANGE) HFATING SYSTEM CABIN & CARBURETOR AIR (INCLUDES EXHAUST SYSTEM)	0550319 0506007	17.5	-21.0
F01-R	F01-0-1 PLACARD, OPERATIONAL LIMITATIONS-DAY VFR F01-0-2 PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT F01-0-3 PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT F01-0-4 PLACARD, OPERATIONAL LIMITATIONS-DAY VFR F01-0-5 PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT NOTE THE ABOVE PLACARDS ARE INSTALLED ACCORDING TO AIRCRAFT EQUIPMENT INDICATOR, AUDIBLE PNEUMATIC STALL WARNING LOW VOLTAGE WARNING LIGHT ALTERNATOR PILOTS OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL	0505087 0505087 0505087 0505087 0505087 0505087 0505087 0505087 0523112 D1172-13PH	2.2 -- -- -- -- -- -- -- -- --	28.5 -- -- -- -- -- -- -- -- --
F13-R	G.	AUXILIARY EQUIPMENT		
F16-R	G07-A RINGS, AIRPLANE HOISTING (CABIN TOP) G13-A CIRRIGATION PROOFING, INTERNAL G14-A STATIC DISCHARGERS G19-A STABILIZER ARRASTON BOOTS G22-S TOW BAR (STOWED) G25-S PAINT, OVERALL EXTERIOR OVERALL BASE WHITE COLOR STRIPES CARLIS, CORROSION RESISTANT CONTROL (NET CHANGE) G55-A-1 FIRE EXTINGUISHER INSTALLATION, STD SEAT	0541115 0520136 0521048 0520041 0521019 0524039 0500036 0521011	0.9 10.0 10.4 2.7 2.6 12.6* 11.6* 0.0 3.0*	49.1 143.2 206.2 95.0* 97.5 96.9 -- 43.8*

**CESSNA  
MODEL 172N**

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
G55-A-2	FIRE EXTINGUISHER MOUNTING CLAMP	C421001-0101	2.6	44.0
G58-A	FIRE EXTINGUISHER INSTL VERTICAL ADJ SEAT STEPS & HANDLES REFUELING ASSISTING RUDER PEDAL EXTENSIONS REMOVABLE - SET OF 2 (STOWABLE FROM DEALERS ONLY)	C421001-0101 24513011 0513415 0761048	6.3 3.2 1.7 2.3	42.0 29.0 16.3 19.0
G67-A	AVAILABILITY FROM DEALERS ONLY)			
GRR-A-1	WINTERIZATION KIT INSTALLATION. ENGINE BREATHER TUBE INSULATION TWO COWL TALET AIR COVERS (INSTALLED) (STOWED)	0501008 0552132-1, 0552132-1, 0552132-1, 0552132-1,	0.8* 0.4* 0.3* 0.3* 0.4*	-22.7* -13.8 -32.0 -95.2* -7.2*
GRR-A-2	WINTERIZATION KIT INSTALLATION ONLY BREATHER TUBE INSULATION CCWL OUTLET COVER (1) (INSTALLED) (STOWED)	0501011 0501055	0.4* 0.6 0.5	-12.0 -4.0 48.0
G97-O	FUEL SYSTEM. EXTENDED RANGE WING TANKS (NET CHANGE)			
H. AVIONICS & AUTOPILOTS				
H01-A	CESSNA 300 ADF INSTALLATION CONSISTS OF RECEIVER WITH BFO (R-546E) INDICATOR (IN-346A) SENS. ANTENNA INSTALLATION LOCAL ANTENNA INSTALLATION RECEIVER MOUNT, WIRES AND MISC ITEMS DME INSTALLATION. NARCO MCNT TRANSCEIVER (DME-190) MCNT ASSY ANTENNA	3910159-2 41240-0201 40980-1001 0570400-632 - 3910166-1 3312-406	8.0* 3.3 3.3 0.9 0.2 1.4 2.2 7.5* 6.3 0.6	19.9* 12.1 14.0 108.6 108.6 139.3 13.7 18.5* 11.3 11.3
H05-A	FOSTER R-NAV 511 RECFTVFP & MOUNT (511)	3910203	0.2	86.1*
H07-A	CESSNA 400 GLIDE SLOPE (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) AUTO RADIAL CENTERING INDICATOR (ARC/LOC)	3910157 42100-0000 1200098-2 46860-2000 3910196	3.4* 2.4* 4.4* 2.1 0.2 0.1 0.2*	14.5* 14.5* 81.1* 117.2 30.0 14.5 14.7*
H08-A				

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**

**CESSNA  
MODEL 172N**

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H03-A-2	EXCHANGE FOR VOR/LOC INDICATOR IN ITEM H22-A AND H25-A (WT NET CHANGE) ARC/LOC INDICATOR ADDED VOR/LOC INDICATOR DELETED AUTO RADIAL CENTERING INDICATOR (ARC/ILS)	46360-1200 46360-1000 3910196	-1.8 -1.6 -0.1*	14.7 14.7 14.7*
H11-A-1	EXCHANGE FOR VOR/ILS INDICATOR USED WITH HO7-A ONLY (WT NET CHANGE) ARC/ILS INDICATOR ADDED VOR/ILS INDICATOR DELETED DANTRONICS PT-10A HF TRANSCIEVER (PANEL MOUNTED) TRANSCIEIVER (PANEL MOUNTED) ANTENNA LOAD BOX HF POWER SUPPLY (REMOTE)	46860-2200 46860-2200 C582103-0102 C582103-0201	-1.9 -1.8 -1.4 -1.4 -1.4 -1.4	14.7 14.7 14.7 14.7 14.7 14.7
H11-A-2	ANTENNA INSTALLATION, 351 IN. LONG SINAIR ASB-125 HF TRANSCIEVER, 2ND UNIT ANTENNA LOAD BOX POWER & SIGNAL CABLES TRANSCIEIVER (PANEL MOUNTED)	3960117 3960117 99916 99683 3960117	2.5 2.3 2.4 8.5 8.5	112.5 112.5 114.4 114.4 114.4
H13-A	SINAIR ANTENNA INSTALLATION, 351 IN. LONG AMISWITCHES, WIRES, AND ETC.	3910164-1 424105128 070681-7 391024-17	3 3 3 3	14.4 14.4 14.4 14.4
H16-A-1	CESSNA 400 MARKER BEACON RECEIVER (R-4024) ANTENNA, L SHAPED ROD CFSSNA 300 TRANSPOUNDER TRANSCIEIVER (RT-3594)	3910183-4 3910183-4 3910183-4 3910183-4	2.7 2.7 2.7 2.7	13.6 13.6 13.6 13.6
H16-A-2	CFSSNA 400 TRANSPOUNDER (USED FOR EXPORT) TRANSCIEIVER (RT-4594)	41470-1028 41470-1028	2.3 2.3	12.6 12.6
H17-A	ANTENNA IREQUIPIRES 434-A TO BE OPERATIONAL RFCTIVE-TRANSCIEIVER (RT-385A) VOR/LOC INDICATOR (LIN-385A)	3910183-4 46660-1000 46860-1000	4.2* 4.2* 4.2*	11.9 11.9 11.9
H17-B-4	ANTENNA IREQUIPIRES 434-A TO BE OPERATIONAL MOUNT WIRING & MISCELLANEOUS ITEMS IREQUIPIRES 437-A TO BE OPERATIONAL RECEIVER-TRANSCIEIVER (RT-385A)	3910183-6 46660-1000 46960-1000	8.3* 5.5 5.5	11.9 11.9 11.9
H17-B-1	VOR/LOC INDICATOR (LIN-385A) MOUNT WIRING & MISCELLANEOUS ITEMS EMERGENCY LOCATOR TRANSMITTER TRANSMITTER (D & M DMELT-6-1)	0470419-3 C589511-0117	3.3* 3.3* 3.3*	11.5 11.5 11.5

**CESSNA  
MODEL 172N**

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**

1 July 1979

6-21

**SECTION 6**  
**WEIGHT & BALANCE/**  
**EQUIPMENT LIST**

**CESSNA  
MODEL 172N**

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM IN'S
D01-1	TRUE AIRSPEED IND. (NET CHANGE)	0513279	16.1	16.1
C16-1	HEATED PITOT SYSTEM	0422355	0.6	24.4
F95-A	DUAL CONTROLS	0513335	4.9	12.4
C40-A	NAV LIGHT DETECTORS	0711613	NEGL	-
C31-A	COURTESY LIGHTS	0521161	1.4	1.4
C43-A	FLASHING BEACON LIGHT	0526003	0.5	61.1
D14-A	STATIC ALTERNATE AIR SOURCE	0511047	1.4	204.7
G16-A	STATIC DISCHARGEERS	0511048	0.2	15.5
H22-A	NAV/COM 385A VOR/LOC	470419	0.4	143.2
G25-D	SKYHAWK II PAINT (NET CHANGE)	0504035	3.5	116.5
H22-A-1	NAV/COM 385A VOR/LOC	3913183-4	0.3	11.9
H34-A	NAV-PAC INSTALLATION (SKYHAWK II ONLY)	3910161	7.3*	52.6*
H25-A	385A NAV/COM VOR/LOC	-	8.3	18.8*
H37-A	ANTENNA & COUPLER KIT	-	1.0	37.5
H01-A	ADF (546E)	-	1.1	11.9
H16-A-1	FLOATPLANE TRANSPONDER (RT-359)	7500044	8.0	19.9
J17-A	FLOATPLANE FUSELAGE STRUCTURAL MODIFICATIONS & FITTINGS (OPTION C)	7500044	4.7	26.1
J13-A	FLOATPLANE COWLDECK V BRACE (INSTALLED)	0513003	1.1	26.2
J15-A	FLOATPLANE AILERON-RUDDER INTERCONNECT (STOWED)	0560012	1.1	95.3
	FLOATPLANE ONLY (INSTALLED)	-	-	-
J17-A	ITEMS J13-A & J17-A ARE ALSO APPROVED FOR LANDPLANE OPERATIONS	7500044	0.4	69.6
J27-A	MODEL 172N FLOATS & ATTACHMENTS NET CHANGE BETWEEN STANDARD LANDING GEAR (ITEM NCS-B01-R, B04-R, B10-S AND BRAKE & NOSE WHEEL STEERING SYSTEMS) AND FLOATPLANE KIT (ITEM NO. J30-A-1) IS APPROXIMATELY 155 LBS. AT 2.3 IN. THE CORRECT VALUES OF WT & ARM CHANGE FOR WT & BALANCE CALCULATIONS ARE TO BE DETERMINED FROM THE ACTUAL INSTALLATION.	END-36335	-	95.7
J30-A-1	FLOATPLANE EQUIPMENT KIT WITH PROP CHANGE AND CORROSION PROOFING CONSISTS OF -- A23-0 PROPELLER, F21-0 PLACARD, G31-A CABLES, G13-A CORROSION RESIST. EXCH.	0501080	23.8*	45.7*
	A23-0 PROPELLER, F21-0 PLACARD, G31-A CABLES, G13-A CORROSION PROOFING, INTERNAL	0550320	2.9	-39.3
		0505087	0.2	-
		0500036	0.2	-
		0500036	10.0	77.0

**CESSNA  
MODEL 172N**

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**