

# 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 . . . . .	6-15

## 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.

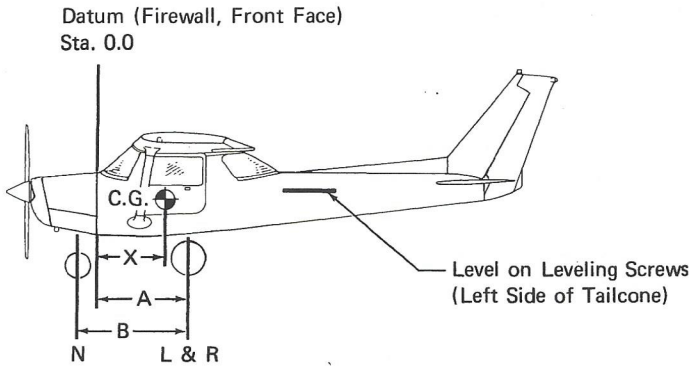
It is the responsibility of the pilot to ensure that the airplane is loaded properly.

## AIRPLANE WEIGHING PROCEDURES

1. Preparation:
  - a. Inflate tires to recommended operating pressures.
  - b. Remove fuel tank sump quick-drain fittings and use sampler cup at quick-drain valve in fuel line to drain all fuel.
  - c. Service engine oil as required to obtain a normal full indication.
  - 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 (500# minimum capacity for scales).
  - b. Deflate nose tire and/or lower or raise the nose strut to center bubble on 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 152**



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

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

Item	Weight (Lbs.)	C.G. Arm (In.)	Moment/1000 (Lbs.-In.)
Airplane Weight (From Item 5, page 6-3)			
Add Unusable Fuel: Std. or L.R. Tanks (1.5 Gal at 6 Lbs/Gal)	9.0	40.0	0.4
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		
DATE	ITEM NO.		DESCRIPTION OF ARTICLE OR MODIFICATION	WEIGHT CHANGE				RUNNING BASIC EMPTY WEIGHT		
	In	Out		ADDED (+)		REMOVED (-)				
			Wt. (lb.)	Arm (In.)	Moment /1000	Wt. (lb.)	Arm (In.)	Moment /1000	Wt. (lb.)	Moment /1000
			As Delivered							

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 limitation (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 parenthesis indicate forward and aft limits of occupant center of gravity range.

\*\*Arms measured to the center of the areas shown.

- NOTES:
1. The usable fuel C.G. arm for standard tanks is located at station 42.0; the C.G. arm for usable fuel in long range tanks is station 39.5.
  2. The aft baggage wall (approximate station 94) can be used as a convenient interior reference point for determining the location of baggage area fuselage stations.

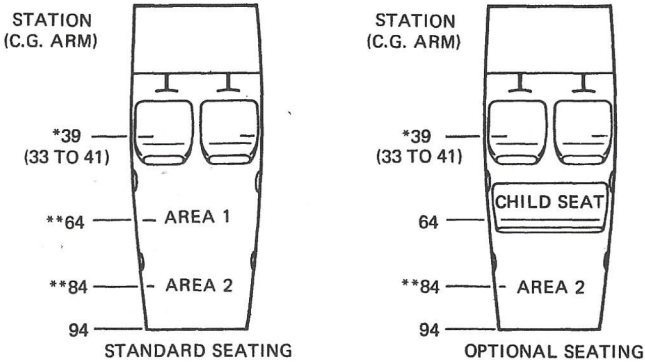
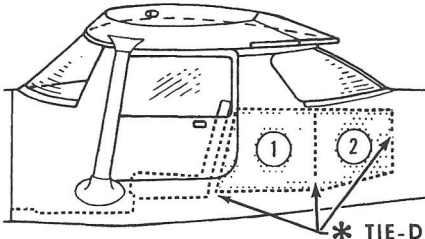


Figure 6-3. Loading Arrangements

## BAGGAGE LOADING AND TIE-DOWN



### BAGGAGE AREA MAXIMUM ALLOWABLE LOADS

AREA ① = 120 POUNDS

AREA ② = 40 POUNDS

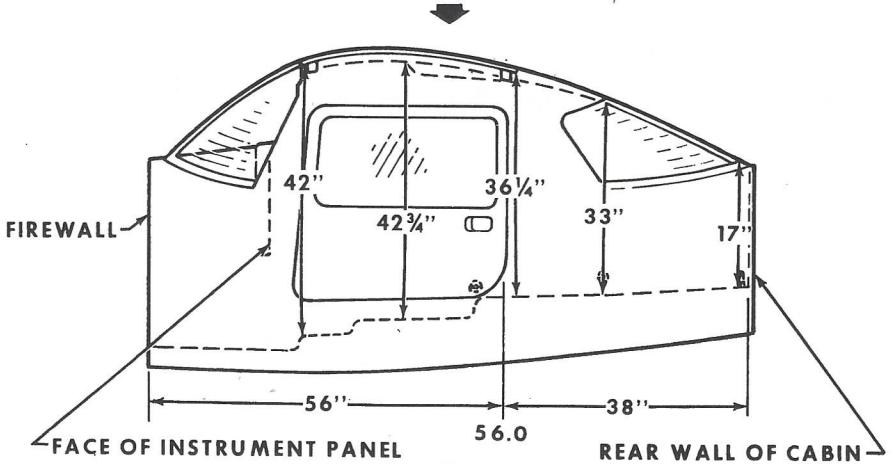
AREAS ① + ② = 120 POUNDS

### \* TIE-DOWN NET ATTACH POINTS

\* A cargo tie-down net is provided to secure baggage in the baggage area. The net attaches to six tie-down rings. Two rings are located on the floor just aft of the seat backs and one ring is located two inches above the floor on each cabin wall at the aft end of area ①. Two additional rings are located at the top, aft end of area ②. At least four rings should be used to restrain the maximum baggage load of 120#.

Figure 6-4. Baggage Loading and Tie-Down

**CABIN HEIGHT MEASUREMENTS**



**DOOR OPENING DIMENSIONS**

WIDTH (TOP)	WIDTH (BOTTOM)	HEIGHT (FRONT)	HEIGHT (REAR)
30"	33 1/4"	30 3/4"	30 1/4"

===== WIDTH =====  
 ● LWR WINDOW LINE  
 \* CABIN FLOOR

**CABIN WIDTH MEASUREMENTS**

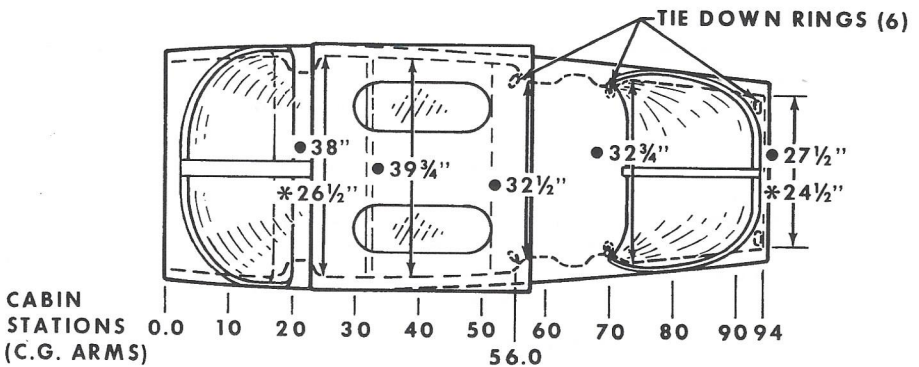


Figure 6-5. Internal Cabin Dimensions



SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

CESSNA  
MODEL 152

SAMPLE LOADING PROBLEM	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)
1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil) . . . . .	1136	34.0		
2. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (24.5 Gal. Maximum) . . . . .	147	6.2		
Long Range Tanks (37.5 Gal. Maximum) . . . . .				
Reduced Fuel (As limited by max. weight) . . . . .				
3. Pilot and Passenger (Station 33 to 41) . . . . .	340	13.3		
4.*Baggage - Area 1 (Or passenger on child's seat) (Station 50 to 76, 120 Lbs. Max.) . . . . .	52	3.3		
5.*Baggage - Area 2 (Station 76 to 94, 40 Lbs. Max.) . . . . .				
6. RAMP WEIGHT AND MOMENT	1675	56.8		
7. Fuel allowance for engine start, taxi, and runup	-5	-.2		
8. TAKEOFF WEIGHT AND MOMENT (Subtract Step 7 from Step 6)	1670	56.6		
9. Locate this point (1670 at 56.6) 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 pounds.				

Figure 6-6. Sample Loading Problem (Sheet 1 of 2)

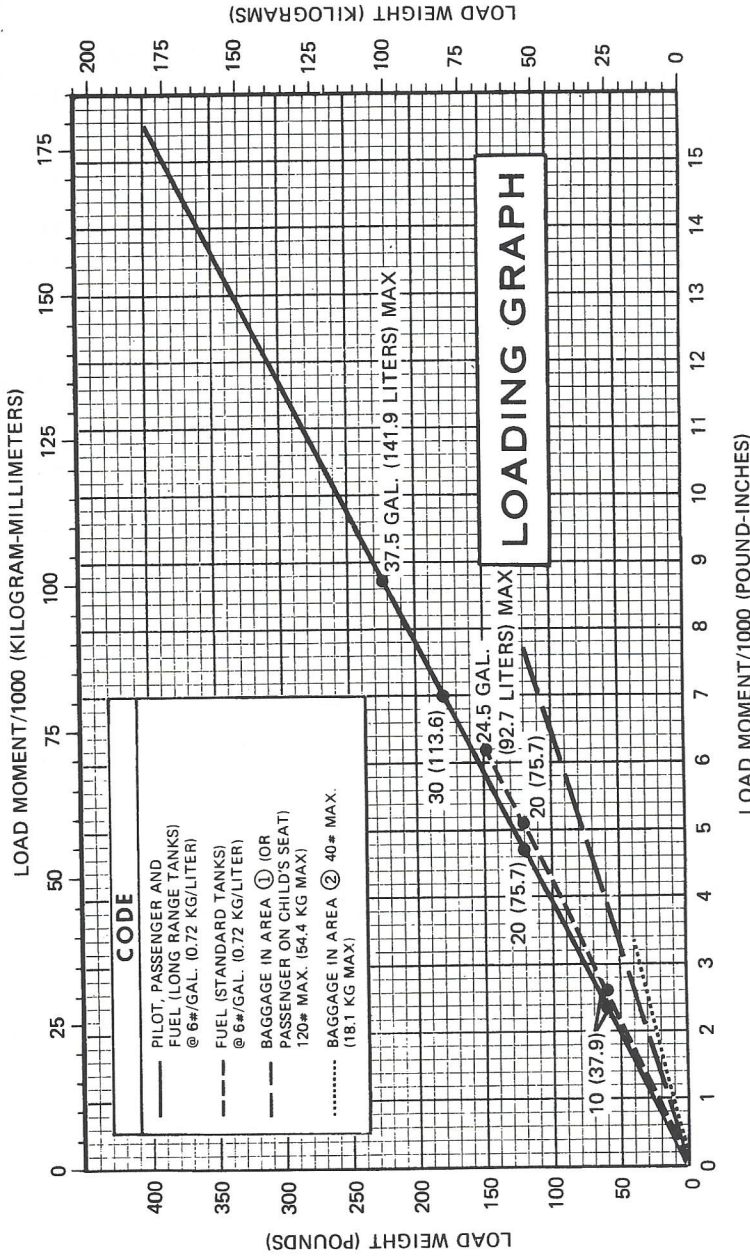
YOUR AIRPLANE		YOUR AIRPLANE		YOUR AIRPLANE		YOUR AIRPLANE	
Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)

When several loading configurations are representative of your operations, it may be useful to fill out one or more of the above columns so that specific loadings are available at a glance.

Figure 6-6. Sample Loading Problem (Sheet 2 of 2)

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

**CESSNA  
MODEL 152**



**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 6-7. Loading Graph**

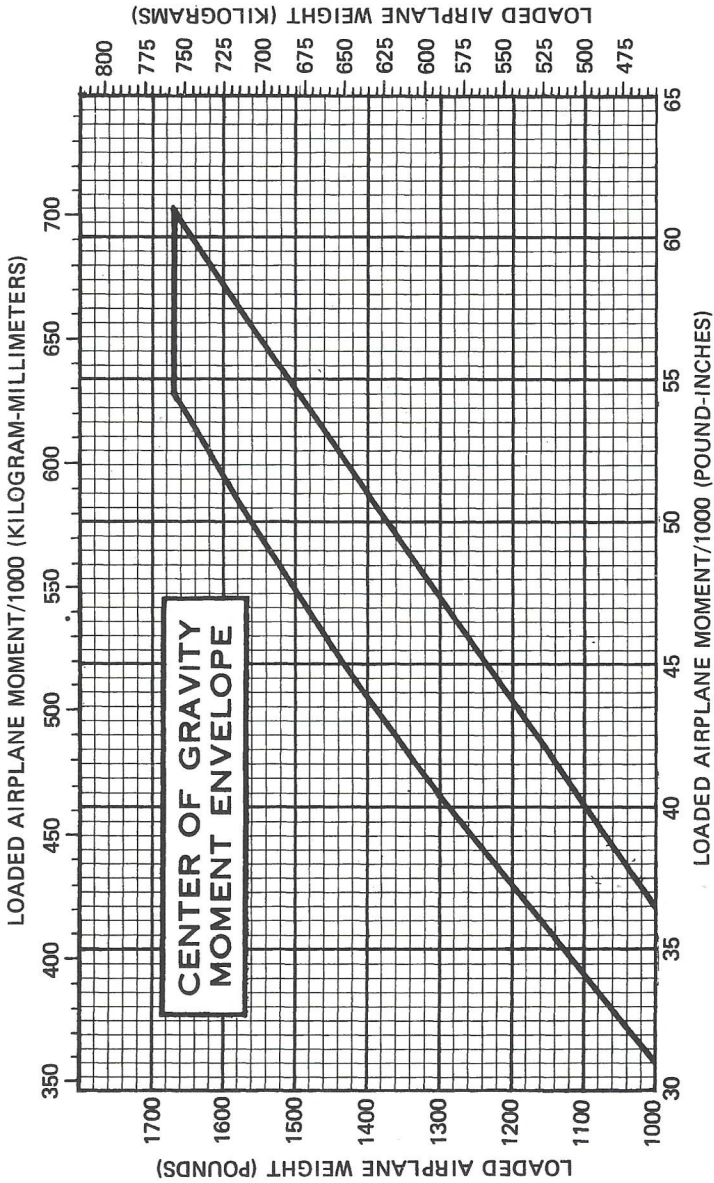


Figure 6-8. Center of Gravity Moment Envelope

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

**CESSNA  
MODEL 152**

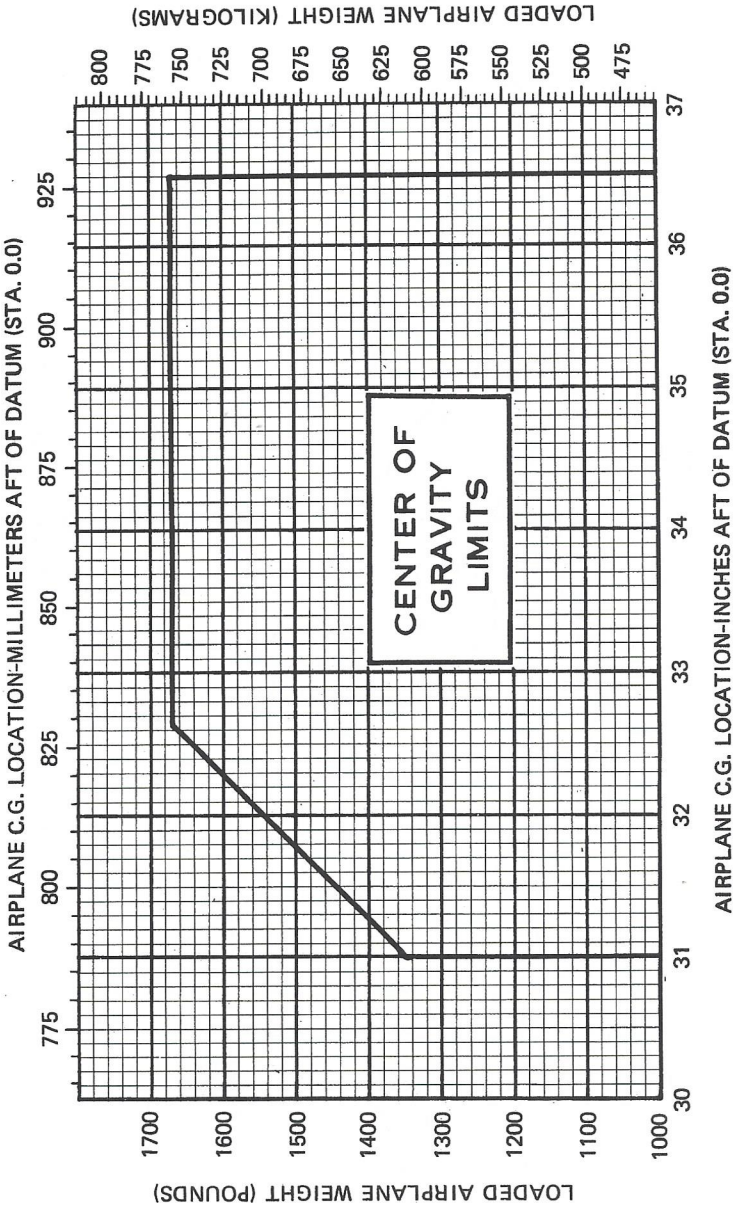


Figure 6-9. Center of Gravity Limits

## 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 152

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	<b>A. POWERPLANT &amp; ACCESSORIES</b>			
A01-R	ENGINE, LYCOMING O-235-L2C (INCLUDED ALTERNATOR BRACKETS, STARTER, CARBURETOR, SPARK PLUGS AND OIL FILTER INSTALLATION)	0450071	246.0	-19.1
A05-R	FILTER, CARBURETOR AIR	C294510-0201	0.5	-16.0
A09-R	ALTERNATOR, 60 AMP, 28 VOLT (BELT DRIVE)	C611503-0102	10.7	-27.5
A17-R	OIL COOLER INSTALLATION -OIL COOLER (STEWART WARNER)	0450071 8406 J OR M	3.6* 2.3	-24.0* -27.4
A33-R	PROPELLER INSTALLATION -PROPELLER, MCCAULEY FIXED PITCH 1A1037CM6958	0450077 C161001-0501	28.2* 26.6	-36.5* -36.5
A41-R	SPINNER INSTALLATION, PROPELLER -SPINNER DOME -AFT BULKHEAD (BACK SIDE OF PROP) -FWD BULKHEAD (FWD SIDE OF PROP) -MISC. ITEMS	0450077 0450073-1 0450072-1 0450076-1	2.5* 1.0 1.1 0.3 0.1	-38.2* -38.4 -38.3 -37.4 -38.0
A61-A	VACUUM SYSTEM, ENGINE DRIVEN -VACUUM PUMP -VACUUM RELIEF VALVE -MISC. ITEMS	0413596 C431003-0104 C482001-0401	2.6* 1.8 0.5 0.4	-6.0* -7.5 -1.5 -8.7
A70-S	ENGINE PRIMING SYSTEM	0400402	0.5	3.1
A73-A	VALVE, ENGINE OIL QUICK DRAIN (NET CHANGE)	1701015	NEGL	--
	<b>B. LANDING GEAR &amp; ACCESSORIES</b>			
B01-R-1	WHEEL, BRAKE & TIRE ASSY 15X6-00X6 MAIN 2 -WHEEL ASSEMBLY, MCCAULEY (EACH) -BRAKE ASSEMBLY, MCCAULEY (LEFT)	C163019-0211 C163006-0101 C163033-0102	33.8* 7.6 1.9	46.7* 47.1 43.7

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
801-R-2	-BRAKE ASSEMBLY, MCCAULEY (RIGHT)	C163033-0102	1.9	43.7
	-TIRE, 4-PLY BLACKWALL (EACH)	C262006-0102	6.1	47.1
	-TUBE (EACH)	C262026-0101	1.3	47.1
	WHEEL, BRAKE & TIRE ASSY 15X6.00X6 MAIN 2	1241156-41	33.4*	46.7*
801-0-1	-WHEEL ASSY, CLEVELAND 40-113 (EACH)	C163001-0104	7.4	47.1
	-BRAKE ASSY, CLEVELAND 30-75A (LEFT)	C163030-0111	1.9	43.7
	-BRAKE ASSY, CLEVELAND 30-75A (RIGHT)	C163030-0112	1.9	43.7
	-TIRE, 4-PLY BLACKWALL (EACH)	C262006-0102	6.1	47.1
	-TUBE (EACH)	C262026-0101	1.3	47.1
	WHEEL, BRAKE & TIRE ASSY, 6.00X6 MAIN (2)	C163019-0201	40.0*	46.7*
801-0-2	-WHEEL ASSY, MCCAULEY (EACH)	C163006-0101	7.6	47.1
	-BRAKE ASSY, MCCAULEY (LEFT)	C163033-0101	1.9	43.7
	-BRAKE ASSY, MCCAULEY (RIGHT)	C163033-0101	1.9	43.7
	-TIRE, 4-PLY BLACKWALL (EACH)	C262003-0101	8.4	47.1
	-TUBE (EACH)	C262023-0102	2.1	47.1
	WHEEL, BRAKE & TIRE ASSY, 6.00X6 MAIN (2)	1241156-40	39.6*	46.7*
804-R-1	-WHEEL ASSY, CLEVELAND 40-113 (EACH)	C163001-0104	7.4	47.1
	-BRAKE ASSY, CLEVELAND 30-75A (LEFT)	C163030-0111	1.9	43.7
	-BRAKE ASSY, CLEVELAND 30-75A (RIGHT)	C163030-0112	1.9	43.7
	-TIRE, 4-PLY BLACKWALL (EACH)	C262003-0101	8.4	47.1
	-TUBE (EACH)	C262023-0102	2.1	47.1
	WHEEL & TIRE ASSY, 5.00X5 NOSE	C163018-0101	10.3*	-10.8*
804-R-2	-WHEEL ASSY, MCCAULEY	C163005-0201	3.8	-10.8
	-TIRE, 4-PLY BLACKWALL	C262003-0102	5.1	-10.8
	-TUBE	C262023-0101	1.4	-10.8
810-A	WHEEL & TIRE ASSY, 5.00X5 NOSE	1241156-2	9.3*	-10.8*
	-WHEEL ASSY, CLEVELAND 40-77	1241156-12	2.8	-10.8
	-TIRE, 4-PLY BLACKWALL	C262003-0102	5.1	-10.8
	-TUBE	C262023-0101	1.4	-10.8
C. ELECTRICAL SYSTEMS	WHEEL FAIRING INSTALLATION	0541225-4	17.0*	35.4*
	-NOSE WHEEL FAIRING	0543079-1	4.1	-9.5
	-MAIN WHEEL FAIRING (EACH)	0541223	5.0	49.5
	-BRAKE FAIRINGS (EACH)	0441227	0.6	50.5



SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

CESSNA  
MODEL 152

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
C01-R	BATTERY, 24 VOLT STANDARD DUTY	C614002-0101	23.2	-5.5
C01-O	BATTERY, 24 VOLT HEAVY DUTY	C614002-0102	25.2	-5.5
C04-R	ALTERNATOR CONTROL UNIT WITH HIGH VOLTAGE PROTECTION AND LOW VOLTAGE SENSING	C611005-0101 OR C611005-0102	0.4	0.5
C07-A	GROUND SERVICE RECEPTACLE	0401026-1	2.1	-1.9
C16-A	PITOT HEATER	0422355-1	0.6	21.5
C22-A	POST LIGHTS (INSTRUMENT PANEL LIGHTING)	0413577	0.5	18.0
C25-A	MIC SWITCH & MAP LIGHT CONTROL WHEEL MTD	0470117-1	0.2	22.5
C28-A	MAP LIGHT, DOOR POST MOUNTED	0470425-1	0.3	23.0
C43-A	LIGHT INSTALLATION, OMNIFLASH BEACON -BEACON LIGHT IN FIN TIP -FLASHER POWER SUPPLY IN AFT TAILCONE -RESISTOR (MEMCOR) -MISC. ITEMS	0406003-1 C621001-0102 C594502-0102 DR95-6.	1.3* 0.4 0.5 0.2 0.2	193.7* 217.2 173.9 183.4 206.5
C46-A	LIGHT INSTALLATION WING TIP STROBE -STROBE LIGHTS IN WING TIP (SET OF 2) -FLASHER POWER SUPPLIES IN TIPS (SET OF 2)	0401009-1 C622006-0107 C622008-0102	3.1* 0.2 2.3	37.8* 35.5 39.5
C49-A-1	LANDING LIGHT INSTALLATION--SINGLE BULB	0401022-3	1.0	-28.3
C49-A-2	LANDING & TAXI LIGHT INSTL. DUAL BULB	0401022-4	1.8	-28.3
D. INSTRUMENTS				
D01-R	INDICATOR, AIRSPEED	C661064-0107	0.6	17.2
D01-O	INDICATOR, TRUE AIRSPEED (0513279)	C661065-0105	0.7	17.3

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
D07-R	ALTIMETER, SENSITIVE	C661071-0101	0.9	17.6
D07-0-1	ALTIMETER, SENSITIVE (20 FT MARKINGS) (FEET AND MILLIBARS)	C661025-0102	0.7	17.6
D07-0-2	ALTIMETER, SENSITIVE (50 FT. MARKINGS) (FEET AND MILLIBARS)	C661071-0102	0.8	17.6
D16-A-1	ENCODING ALTIMETER (INCLUDES RELOCATION OF CONVENTIONAL ALTIMETER)	0401013	2.9	17.0
D16-A-2	ENCODING ALTIMETER, FEET & MILLIBARS (INCLUDES RELOCATION OF CONVENTIONAL ALT.)	0401013	2.9	17.0
D16-A-3	ALTITUDE ENCODER (BLIND, DOES NOT REQUIRE PANEL MOUNTING)	0401019-1	1.5	2.0
D19-R	AMMETER INSTALLATION	S-1320-5	0.1	18.0
D25-A-1	CLOCK INSTALLATION -CLOCK, ELECTRIC	0400341 C664508-0102	0.4* 0.3	14.4* 18.1
D25-A-2	CLOCK INSTALLATION, DIGITAL READOUT -CLOCK-TIMER, DIGITAL	0470426-1 C664511-0102	0.4* 0.3	14.4* 18.1
D28-R	COMPASS	C660501-0102	0.5	20.0
D37-R	INSTRUMENT CLUSTER (LH & RH FUEL)	C669537-0104	0.4	18.0
D37-0	INSTRUMENT CLUSTER (LH & RH FUEL) (USED WITH G92-0, LONG RANGE WING ONLY)	C669537-0105	0.4	18.0
D40-R	INSTRUMENT CLUSTER (OIL PRES. & OIL TEMP.)	C669535-0101	0.4	18.0
D49-A	ECONOMY MIXTURE INDICATOR (EGT) INSTL. -PROBE -LEAD -EGT GAGE -MISC. ITEMS	0401028-1 C668501-0204 C668501-0206 C668501-0211	0.7* 0.1 0.1 0.4 0.1	11.3* -7.0 11.9 17.8 3.0
D59-A	INDICATOR, 'G' METER	0400335	0.7	17.4

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

CESSNA  
MODEL 152

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
D64-A	GYRO INSTALLATION (REQUIRES ITEM A61-A) -DIRECTIONAL INDICATOR -ATTITUDE INDICATOR -SUCTION GAGE -GYRO FILTER ASSY. -MISC. ITEMS	0413596 C661075-0104 C661076-0101 C668509-0101 1201075-2 --	6.2* 2.5 1.9 0.1 0.2 1.4	12.4* 15.4 17.6 17.0 7.0
D67-A	RECORDER, ENGINE HOUR METER	0401017	0.6	5.2
D82-A	OUTSIDE AIR TEMPERATURE INDICATOR	C668507-0101	0.1	22.0
D85-R	TACHOMETER INSTALLATION, ENGINE -RECORDING TACH INDICATOR	0400402 C668020-0120	1.0* 0.6	12.5* 17.0
D88-A-1	INDICATOR, TURN COORDINATOR (24 VOLT ONLY)	C661003-0507	1.3	17.2
D88-A-2	INDICATOR, TURN COORDINATOR (10-30 VOLT)	C661003-0506	1.3	17.2
D91-A	INDICATOR, VERTICAL SPEED  E. CABIN ACCOMMODATIONS	C661080-0101	1.0	18.0
E05-R	SEAT, PILOT INDIVIDUAL SLIDING	0414084	11.1	45.2
E05-O	SEAT, VERTICALLY ADJUSTABLE, PILOT	0414085	17.0	45.2
E07-S	SEAT, CO-PILOT INDIVIDUAL SLIDING	0414084	11.1	45.2
E07-O	SEAT, VERTICALLY ADJUSTABLE, CO-PILOT	0414085	17.0	45.2
E09-A	CHILD SEAT INSTALLATION, AUXILIARY -UPPER BACK REST CUSHION -LOWER SEAT CUSHION ASSEMBLY -LAP BELT ASSEMBLY -MISC. ITEMS	0400134-1 0711080-1 0400136-9 S-1746-2	10.5* 1.3 6.4 1.0 1.8	66.5* 72.9 64.5 66.0 69.3
E15-R	BELT ASSY, PILOT LAP	S-2275-104	1.0	39.0
E15-S	SHOULDER HARNESS ASSY, PILOT	S-2275-202	1.0	39.0

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
E19-0	SHOULDER HARNESS INERTIA INSTL., PILOT & CO-PILOT (NET CHANGE)	0401012-1	1.3	71.1
E23-S	BELT & SHOULDER HARNESS ASSY, CO-PILOT	S-2275-4	1.6	39.0
E34-0	INTERIOR, DELUXE (NET CHANGE)	0415020	1.5	40.0
E39-A	WINDOWS, OVERHEAD CABIN TOP (NET INCREASE)	0401034-1	0.5	49.0
E55-A	SUN VISORS (SET OF 2)	0514166-1	1.0	27.0
E57-0	WINDOWS, TINTED, CABIN (NET CHANGE)	0400324-1	NEGL	--
E59-A	APPROACH PLATE HOLDER	0415044-1	0.1	20.5
E65-S	BAGGAGE NET	2015009-2	0.5	84.0
E85-A	DUAL CONTROLS (WHEEL, PEDALS & TOE BRAKES)	0460118-2	4.1	12.1
E89-0	ALL PURPOSE CONTROL WHEEL (RQD WITH C25-A) (WT. NET CHANGE)	0470117	NEGL	--
E93-R	HEATING SYSTEM, CABIN (INCLUDED ENGINE EXHAUST SYSTEM)	0450071	14.0	-22.0
	F. PLACARDS, WARNINGS & MANUALS			
F01-R	OPERATIONAL LIMITATIONS PLACARD VFR-DAY	0405068-1	NEGL	23.0
F01-0-1	OPERATIONAL LIMITATIONS PLACARD VFR-DAY NIGHT	0405068-2	NEGL	23.0
F01-0-2	OPERATIONAL LIMITATIONS PLACARD VFR-IFR DAY & NIGHT	0405068-3	NEGL	23.0
F04-R	STALL WARNING HORN, PNEUMATIC, AUDIBLE	0413029	0.5	21.5
F10-S	PILOT'S CHECKLIST (STOWED)	D6081	0.3	14.5

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

CESSNA  
MODEL 152

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
F16-R	(LOCATED AT GLOVE BOX) PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL (AT SEAT BACK POCKET OF PILOT SEAT)	01210-13PH	1.0	50.7
G. AUXILIARY EQUIPMENT				
G07-A	HOISTING RINGS, AIRCRAFT CABIN TOP (NOT FACTORY INSTALLED)	0541115-0	2.0	42.0
G13-A	CORROSION PROOFING, INTERNAL	0400027-2	6.3	68.0
G16-A	STATIC DISCHARGERS (SET OF 10)	0401015-1	0.4	117.6
G19-A	STABILIZER ABRASION BOOTS	0500041-3	2.5	179.4
G22-A	TOW BAR, AIRCRAFT NOSE WHEEL (STOWED)	0401039	1.6	84.0
G25-S	PAINT, OVERALL EXTERIOR -OVERALL BASE WHITE -COLOR STRIPE	0404037	9.5* 8.7 0.4	80.3* 79.0 115.1
G31-A	CABLES, CORROSION RESISTANT CONTROL (NET CHANGE)	0400027-2	NEGL	--
G49-O	WING TIPS, MODIFIED CONICAL (NET CHANGE)	0401033-1	2.5	41.0
G55-A	FIRE EXTINGUISHER, HAND TYPE	0401038-1	3.0	9.5
G58-A	STEPS & HANDLES, REFUELING ASSIST	0413456-2	2.1	9.9
G67-A	PEDAL EXTENSIONS, RUDDER, REMOVABLE - SET OF 2 (STOWABLE - INSTALLED ARM SHOWN) AVAILABLE FROM DEALERS ONLY	0501082-1	2.3	8.0
G88-A	WINTERIZATION KIT INSTALLATION; ENGINE -COVER PLATES, FWD COWL (SET OF 2) INSTALLED	0401024-1 0450080	0.5* 0.1	-20.9* -33.0

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
G92-A	-COVER PLATES FOWARD COWL (STOWED) -CRANKCASE BREATHER TUBE INSULATION WINGS WITH 39 GALLON CAPACITY, EXTENDED RANGE FUEL TANKS, (NET CHANGE)	0450080 -- 0401018-3	0.1 0.2 5.9	84.0 -12.0 37.3
H01-A	H. AVIONICS & AUTOPILOTS CESSNA 300 ADF INSTALLATION -RECEIVER W/BFO, R-546E -INDICATOR, IN-346A -ANTENNA INSTALLATION -LOOP ANTENNA INSTALLATION -CABLE INSTALLATION -ADF SWITCH INSTALL -MISC. INSTALLATION COMPONENTS	3910159-11 41240-0001 40980-1001 0470400-621 3960104-14 3950104-14 3970146-4	8.5* 3.3 0.9 0.2 1.4 1.1 1.4 1.2	17.4* 13.5 15.5 96.5 24.2 26.4 19.4 14.4
H07-A	CESSNA 400 GLIDESLOPE WITH ILS INDICATOR EXCHANGED FOR LOC INDICATOR -RECEIVING, R-443B -MOUNTING -ANTENNA COUPLER, DUAL -VOR/ILS IND., IN-386A ADDED -VOR/LOC IND., IN-385A DELETED -MISC. ITEMS	3910157-10 42100-0000 36750-0000 S2473-1 46860-2000 46860-1000	5.8* 2.1 0.3 0.2 1.7 -1.6 3.1	78.5* 105.3 105.3 22.0 15.5 15.5 62.6
H08-A-1	AUTO RADIAL CENTERING INDICATOR ARC/LOC EXCHANGE FOR VOR/LOC IN ITEM H22-A -ARC/LOC IND., IN-385AC ADDED -VOR/LOC IND., IN-385A DELETED	3910196-1 46860-1200 46860-1000	0.2* 1.8 -1.6	15.5* 15.5 15.5
H08-A-2	AUTO RADIAL CENTERING INDICATOR, ARC/ILS EXCHANGE FOR VOR/ILS INDICATOR IN ITEM H07-A ONLY -ARC/ILS IND., IN-386AC ADDED -VOR/ILS IND., IN-386A DELETED	3910196-2 46860-2200 46860-2000	0.1* 1.8 -1.7	15.5* 15.5 15.5
H13-A	CESSNA 400 MARKER BEACON INSTALLATION -RECEIVER, R-402A	3910164-14 42410-5128	2.2* 0.7	36.0* 13.7

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

CESSNA  
MODEL 152

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H16-A-1	-ANTENNA, L SHAPED ROD -MKR BCN KIT & MISC. ITEMS CESSNA 300 TRANSPONDER INSTALLATION -TRANSCIVER, RT-359A -ANTENNA -RADIO COOLING & MISC. ITEMS	0770681-1 2470017-3 3910127-1 41420-0028 42940-0000 3930213	0.7 0.8 3.6* 2.7 0.2 0.7	86.0 11.8 17.4* 15.0 67.0 20.0
H16-A-2	CESSNA 400 TRANSPONDER INSTALLATION -TRANSCIVER, RT-459A -ANTENNA -RADIO COOLING & MISC. ITEMS	3910128-20 41470-1028 42940-0000 3930213	3.7* 2.8 0.2 0.7	17.4* 13.0 67.0 20.0
H22-A	CESSNA 300 NAV/COM, 720 CH COM INSTL. REQUIRES--H34-A TO OPERATE, 1ST UNIT H37-A TO OPERATE, 2ND UNIT -RECEIVER-TRANSCIVER, RT-385A -VDR/LOC INDICATOR, IN-385A -MOUNT, WIRING & MISC. ITEMS	3910183-1 46660-1000 46860-1000	8.1* 5.5 1.6 1.0	13.9* 13.6 15.5 12.9
H28-A-1	EMERGENCY LOCATOR TRANSMITTER -TRANSMITTER (D & M DMELT-6-1) -ANTENNA	0470419-1-0117 C589511-0109 C589511-0109	3.5* 3.3 0.1	102.5* 102.6 101.3
H28-A-2	EMERGENCY LOCATOR TRANSMITTER (USED IN CANADA) -TRANSMITTER (D & M DMELT-6-1C) -ANTENNA	0470419-2 C589511-0113 C589511-0109	3.5* 3.3 0.1	102.5* 102.6 101.3
H33-A	INTERCOM SYSTEM INSTALLATION REQUIRES H34-A & H56-A TO OPERATE	3910210	0.4	16.5
H34-A	BASIC AVIONICS KIT INSTALLATION REQUIRED W/1ST UNIT NAV/COM RADIO (INCLUDED BLOWER) -RADIO COOLING SYST (INCLUDED BLOWER) -NOISE FILTER (AUDIO) (ON ALTERNATOR) -LH COM ANTENNA CABLE -OMNI ANTENNA CABLE -VHF L.H. COM ANTENNA -MICROPHONE INSTALLATION -1ST N/C TRANSCIVER KIT	3910186-1 3930213 3940148-2 3950140-5 3950104-4 3960102-9 3960113-1 3970116-2 3930186-1	6.4* 1.8 0.1 0.4 1.0 0.5 0.5 0.3 0.1	51.6* 3.0 -25.0 20.2 105.0 255.9 18.2 17.5

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H37-A	-CABIN SPEAKER INSTALLATION -HEADPHONE INSTALLATION -SWITCH, POTENTIOMETER & ANT. ADAPTER	3970123-6 3970125-1 3970146	1.2 0.2 0.3	51.1 17.2 14.0
H53-A	ANTENNA & COUPLER KIT INSTALLATION REQUIRED W/2ND UNIT NAV/COM RADIO -RH COM ANTENNA INSTALLATION -RH COM ANTENNA CABLE -OMNI ANTENNA COUPLER INSTL.	3910185-1 3960113-2 3950140-4 3960111-11	1.0* 0.4 0.4 0.2	32.8* 55.9 20.2 12.0
H55-A	HEADSET-MICROPHONE, RQS. ALL PURPOSE CONTROL WHEEL	C596531-0101	0.3	17.2
H56-A	PADDED HEADPHONE-MIKE ASSY, REQUIRES ALL- PURPOSE CONTROL WHEEL	C596531-0101	1.1	14.0
J. SPECIAL OPTION PACKAGES				
J01-A	152-II PACKAGE EQUIPMENT SYSTEM (FOR GYROS) -A61-A VACUUM SYSTEM -C43-A OMNI FLASHING BEACON -D49-A-1 GYRO FLASHING LIGHT SINGLE BULB -D64-A LANDING LIGHT INSTALLATION -D82-A OUTSIDE AIR TEMP. IND. -D88-A-1 TURN COORDINATOR -D91-A VERTICAL SPEED INDICATOR -E55-A SUN VISOR -E85-A DUAL CONTROLS -H22-A 300 NAV/COM RT-385A -H34-A BASIC AVIONICS KIT	0413596 0406003-1 0401022-3 0413596 C668507-0501 C661003-0101 C661080-0101 C661166-1 0460118-2 3910183-1 3910186-1	33.1* 2.6 1.0 1.0 1.6 0.1 0.1 1.0 1.0 1.4 1.0 8.4	25.5* -6.0 193.7 -128.4 122.4 127.2 18.0 17.1 12.9 113.6
J05-A	TRAINER PACKAGE REQUIRED II PACKAGE AND INCLUDES THE FOLLOWING ITEMS--- -A73-A GIL QUICK DRUM -D49-A RECORDER, FLIGHT HOURMETER -E57-C WINDOWS, TINTED, CABIN -E89-O ALL PURPOSE CONTROL WHEEL -G58-A STEP & HANDLES	1701015 0401028-1 0401017 0400324-1 0470117 0413456-2	NEGL 0.7 0.6 NEGL NEGL 2.1	14.1* -0 9.0 -0 5.2 -0 9.9



SECTION 6  
 WEIGHT & BALANCE/  
 EQUIPMENT LIST

CESSNA  
 MODEL 152

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	-H16-A-1 CESSNA 300 TRANSPONDER -H33-A INTERCOM SYSTEM (INCLUDED H56-A HEADSET ASSY-PADDED)	3910127-1 3910210	3.6 2.6	17.4 16.5