SECTION 6
WEIGHT & BALANCE/ EQUIPMENT LIST

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INTRODUCTION

This section describes the procedure for establishing the basic empty weight and moment of the airplane. Sample forms are provided for reference. Procedures for calculating the weight and moment for various operations are also provided. A comprehensive list of all Cessna equipment available for this airplane is included at the back of this section.

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

AIRPLANE WEIGHING PROCEDURES

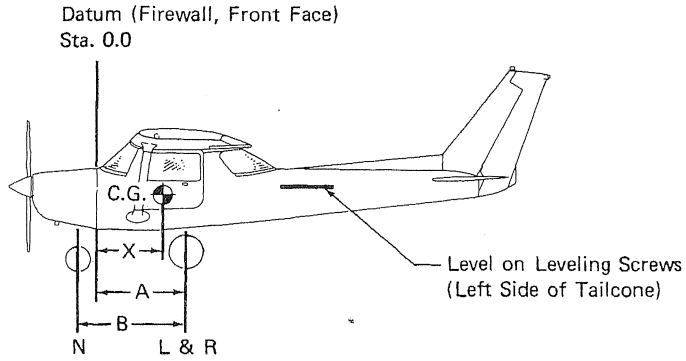
1. Preparation:
   a. Inflate tires to recommended operating pressures.
   b. Remove the fuel tank sump quick-drain fittings and fuel line drain plug to drain all fuel.
   c. Remove oil sump drain plug to drain all oil.
   d. Move sliding seats to the most forward position.
   e. Raise flaps to the fully retracted position.
   f. Place all control surfaces in neutral position.

2. Leveling:
   a. Place scales under each wheel (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



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

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

Item	Weight (Lbs.)	X C.G. Arm (In.) =	Moment/1000 (Lbs.-In.)
Airplane Weight (From Item 5, page 6-3)			
Add Oil: No Oil Filter (6 Qts at 7.5 Lbs/Gal)		-14.7	
With Oil Filter (7 Qts at 7.5 Lbs/Gal)		-14.7	
Add Unusable Fuel: Std. Tanks (1.5 Gal at 6 Lbs/Gal)		40.0	
L.R. Tanks (1.5 Gal at 6 Lbs/Gal)		40.0	
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. In	ITEM NO. Out	DESCRIPTION OF ARTICLE OR MODIFICATION	WEIGHT CHANGE ADDED (+) Wt. (lb.)	ADDED (+) Arm (In.)	ADDED (+) Moment /1000	WEIGHT CHANGE REMOVED (-) Wt. (lb.)	REMOVED (-) Arm (In.)	REMOVED (-) Moment /1000	RUNNING BASIC EMPTY WEIGHT Wt. (lb.)	RUNNING BASIC EMPTY WEIGHT Moment /1000

Figure 6-2. Sample Weight and Balance Record

airplane weight and C.G. can be determined.

6. Basic Empty Weight may be determined by completing figure 6-1.

WEIGHT AND BALANCE

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

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

NOTE

In addition to the basic empty weight and moment noted on these records, the C.G. arm (fuselage station) is also shown, but need not be used on the Sample Loading Problem. The moment which is shown must be divided by 1000 and this value used as the moment/1000 on the loading problem.

Use the Loading Graph to determine the moment/1000 for each additional item to be carried; then list these on the loading problem.

NOTE

Loading Graph information for the pilot, passengers and baggage is based on seats positioned for average occupants and baggage loaded in the center of the baggage areas as shown on the Loading Arrangements diagram. For loadings which may differ from these, the Sample Loading Problem lists fuselage stations for these items to indicate their forward and aft C.G. range 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.

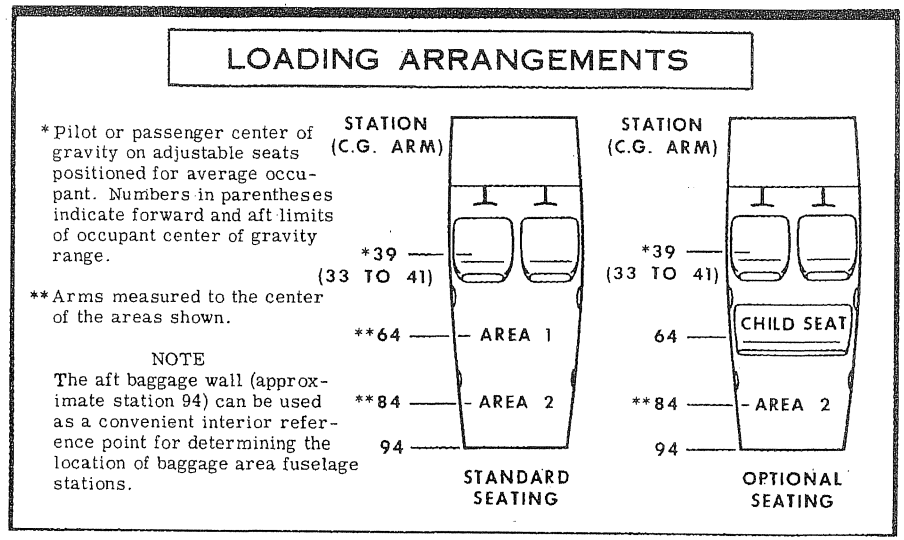


Figure 6-3. Loading Arrangements

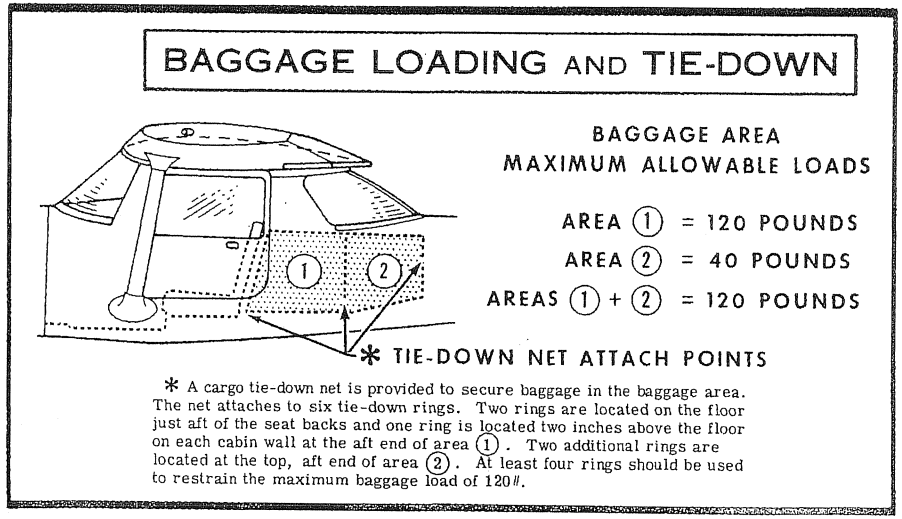
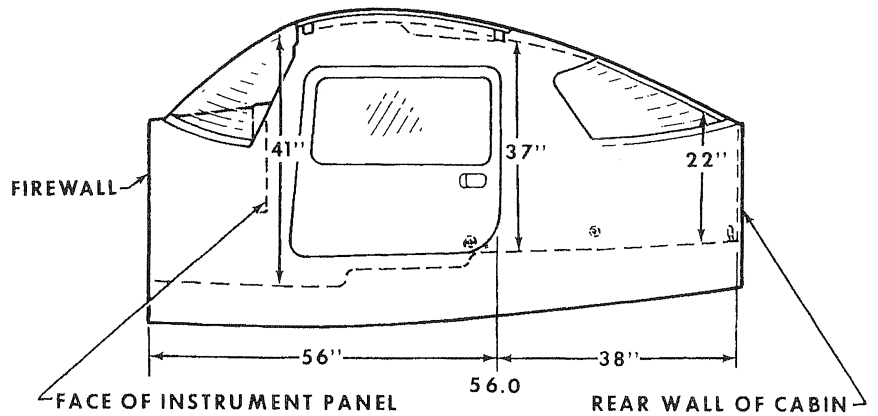


Figure 6-4. Baggage Loading and Tie-Down

CABIN HEIGHT MEASUREMENTS



DOOR OPENING DIMENSIONS

WIDTH (TOP)	WIDTH (BOTTOM)	HEIGHT (FRONT)	HEIGHT (REAR)
31"	33¼"	31½	31"

WIDTH
• LWR WINDOW LINE
* CABIN FLOOR

CABIN WIDTH MEASUREMENTS

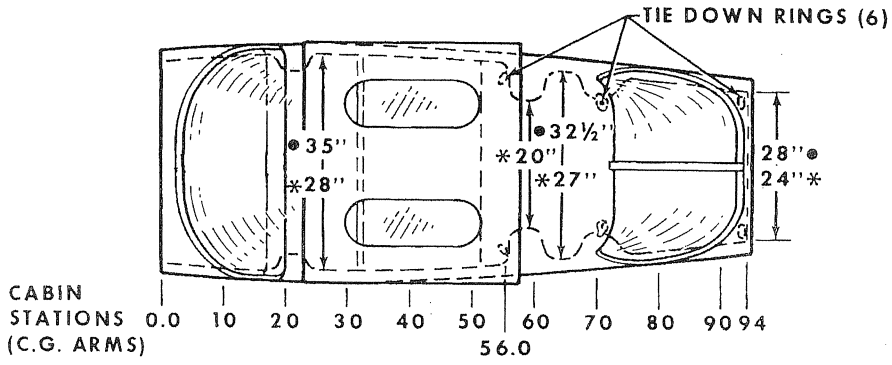
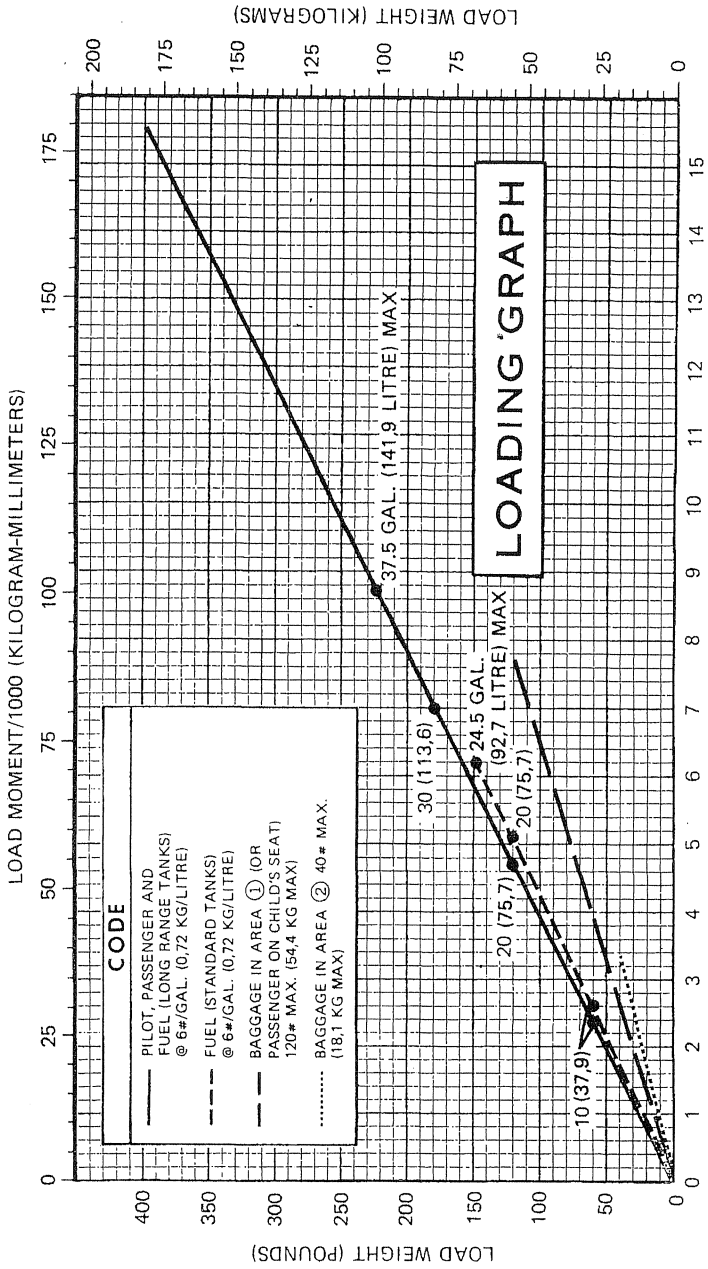


Figure 6-5. Internal Cabin Dimensions

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 maximum 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.)	47	3.0		
5. Baggage - Area 2 (Station 76 to 94, 40 Lbs. Max.)				
6. TOTAL WEIGHT AND MOMENT	1670	56.5		
7. Locate this point (1670 at 56.5) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.				

Figure 6-6. 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 6-7. Loading Graph

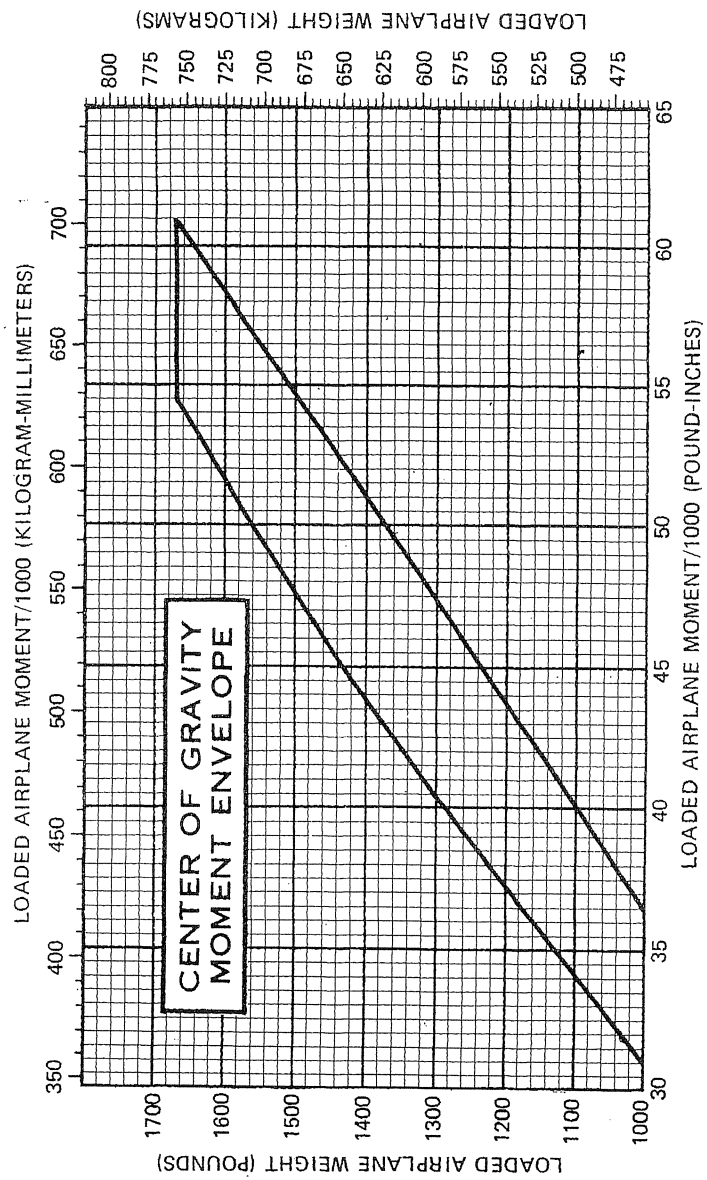


Figure 6-8. Center of Gravity Moment Envelope

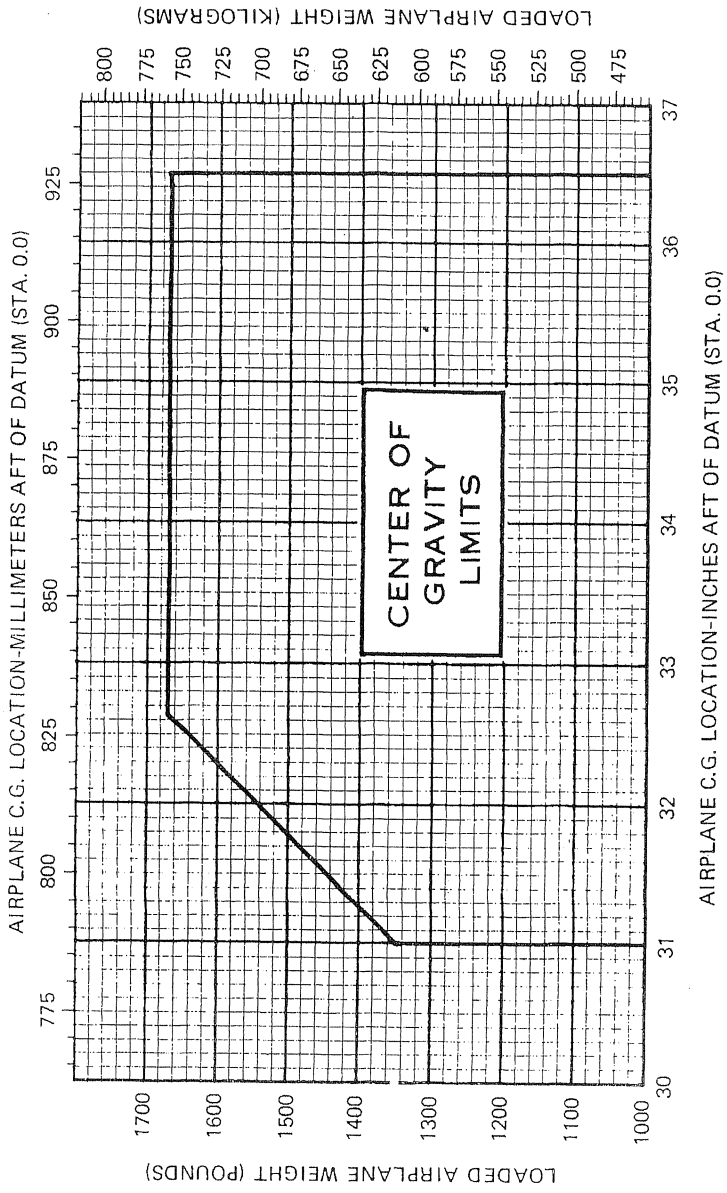


Figure 6-9. Center of Gravity Limits

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.

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	A. POWERPLANT & ACCESSORIES			
A01-R	ENGINE, LYCOMING O-235-L2C (INCLUDES STARTER, CARBURETOR, SPARK PLUGS AND ALTERNATOR BRACKETS)	0450071	243.5	-19.2
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	0450071	3.6*	-22.6
	OIL COOLER (STEWART WARNER)	8406J	2.0	-27.5
A21-A	OIL FILTER INSTALLATION (SPIN-ON ELEMENT)	0450412	2.5	-6.0*
A33-R	PROPELLER INSTALLATION	0450077	24.9*	-36.5*
	PROPELLER, MCCAULEY FIXED PITCH 1A103/TCM6958	C161001-0501	23.2	-36.5
A41-R	SPINNER INSTALLATION, PROPELLER	0450077	2.4*	-38.6*
	SPINNER DOME	0450073-1	0.8	-38.4
	AFT BULKHEAD (BACK SIDE OF PROP)	0450072-1	1.1	-38.3
	FWD BULKHEAD (FWD SIDE OF PROP)	0450076-1	0.3	-37.4
A61-A	VACUUM SYSTEM INSTALLATION, ENGINE DRIVEN	0413466-1	4.8*	-1.5*
	DRY VACUUM PUMP	C431003-0101	2.8	-7.0
	FILTER ASSEMBLY	1201075-2	0.3	2.0
	VACUUM GAUGE	C668509-0101	0.1	18.0
	VACUUM RELIEF VALVE	C482001-0401	0.5	1.9
A70-S	ENGINE PRIMING SYSTEM		0.5	3.1
A73-A	VALVE, ENGINE OIL QUICK DRAIN (NET CHANGE)	1701015-1	0.0	- -
	B. LANDING GEAR & ACCESSORIES			
B01-R-1	WHEEL, BRAKE & TIRE ASSY, 6.00-6 MAIN (2)	C163018-0201	40.3*	46.8*
	WHEEL ASSEMBLY, MCCAULEY (EACH)	C163005-0101	7.4	47.1
	BRAKE ASSEMBLY, MCCAULEY (LEFT)	C163032-0111	1.7	43.7
	BRAKE ASSEMBLY, MCCAULEY (RIGHT)	C163032-0112	1.7	43.7
	TIRE, 4-PLY BLACKWALL (EACH)	C262003-0101	8.5	47.1
	TUBE (EACH)	C262023-0102	1.8	47.1
B01-R-2	WHEEL, BRAKE & TIRE ASSY, 6.00-6 MAIN (2)	1241156-40	37.6*	46.8*
	WHEEL ASSY, CLEVELAND 40-113 (EACH)	C163001-0101	6.2	47.1
	BRAKE ASSY, CLEVELAND 30-75A (LEFT)	C163030-0111	1.9	43.7
	BRAKE ASSY, CLEVELAND 30-75A (RIGHT)	163030-112	1.9	43.7
	TIRE, 4-PLY BLACKWALL (EACH)	C262003-0101	8.5	47.1
	TUBE (EACH)	C262023-0102	1.8	47.1

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
B04-R-1	WHEEL & TIRE ASSY, 5.00-5 NOSE	C163018-0101	8.7*	-10.8*
	WHEEL ASSY, MCCAULEY	C163005-0201	3.4	-10.8
	TIRE, 4 PLY BLACKWALL	C262003-0102	4.0	-10.8
	TUBE	C262023-0101	1.2	-10.8
B04-R-2	WHEEL & TIRE ASSY, 5.00-5 NOSE	1241156-2	8.7*	-10.8*
	WHEEL ASSY, CLEVELAND 40-77	1241156-12	3.0	-10.8
	TIRE, 4-PLY BLACKWALL	C262003-0102	4.0	-10.8
	TUBE	C262023-0101	1.2	-10.8
B10-A	WHEEL FAIRINGS (SET OF 3)	0541225	18.0*	35.3*
	NOSE WHEEL FAIRING	0543079	4.1	-9.5
	MAIN WHEEL FAIRING (EACH)	0541223	5.9	49.5
	BRAKE FAIRINGS (EACH)	0441227	0.6	50.5
	C. ELECTRICAL SYSTEMS			
C01-R-1	BATTERY, 24 VOLT, 14 AMP HR	0870060-1	27.5	-5.5
C01-R-2	BATTERY, 24 VOLT, 14 AMP HR	C614001-0101	22.8	-5.5
C01-0	BATTERY, 24 VOLT, 17 AMP HR	C614001-0102	24.8	-5.5
C04-R	REGULATOR, ALTERNATOR 60 AMP, 28 VOLT	C611004-0101	0.6	0.5
C07-A	GROUND SERVICE RECEPTACLE	0401021	2.0	-2.0
C16-A	PITOT HEATER	0422355	0.6	21.5
C25-A	LIGHT INSTALLATION, CONTROL WHEEL MAP	0470117-3	0.2	22.5
C43-A	LIGHT INSTALLATION, OMNIFLASH BEACON	0406003-1	1.4*	185.5*
	BEACON LIGHT IN FIN TIP	C621001-0102	0.4	210.9
	FLASHER POWER SUPPLY IN AFT TAILCONE	C594502-0102	0.5	173.9
	RESISTOR (MEMCOR)	OR95-6	0.2	183.4
C46-A	LIGHT INSTALLATION WING TIP STROBE	0401009-1	3.1*	37.8*
	STROBE LIGHTS IN WING TIP (SET OF 2)	C622006-0101	0.2	35.5
	FLASHER POWER SUPPLIES IN TIPS (SET OF 2)	C622008-0102	2.3	39.5
C49-A-1	LANDING LIGHT INSTALLATION--SINGLE BULB	0401022	1.0	-28.3
C49-A-2	LANDING & TAXI LIGHT INSTL. DUAL BULB	0401022	1.8	-28.3
	D. INSTRUMENTS			
D01-R	INDICATOR, AIRSPEED	C661064-0107	0.6	17.2
D01-0	INDICATOR, TRUE AIRSPEED	0513279	1.0	18.0
D07-R	ALTIMETER, SENSITIVE	C661071-0101	1.0	17.6

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
D07-0-1	ALTIMETER, SENSITIVE (20 FT MARKINGS) (FEET AND MILLIBARS)	C661025-0102	1.0	17.6
D07-0-2	ALTIMETER, SENSITIVE (50 FT. MARKINGS) (FEET AND MILLIBARS)	C661071-0102	1.0	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 ALTIMETER)	0401013	2.9	17.0
D16-A-3	ENCODING ALTIMETER, USE WITH TRANSPONDER (BLIND ENCODER-DOES NOT REQUIRE PANEL MOUNT)	0401019	1.5	2.0
D19-R	AMMETER	S-1320-5	0.5	18.0
D25-A	CLOCK INSTALLATION	0400341	0.4*	14.4*
	CLOCK, ELECTRIC	C664508-0101	0.3	18.1
D28-R	COMPASS	C660501-0102	0.5	20.0
D37-R	INSTRUMENT CLUSTER (LH FUEL & RH FUEL)	C669511-0101	0.6	18.0
D40-R	INSTRUMENT CLUSTER (OIL PRES. & OIL TEMP.)	C669512-0102	0.6	18.0
D64-A	GYRO INSTALLATION (REQUIRES ITEM A61-A)	0413466-1	7.1*	14.8*
	DIRECTIONAL INDICATOR	C661075	2.8	15.6
	ATTITUDE INDICATOR	C661076	2.1	15.8
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		1.0*	12.5*
	RECORDING TACH INDICATOR	C668020-0119	0.6	17.0
	TACH FLEXIBLE SHAFT	S-1605-3	0.3	2.0
D88-A	INDICATOR, TURN COORDINATOR	C661003-0505	1.3	17.2
D91-A	INDICATOR, RATE OF CLIMB	C661080-0101	1.0	18.0
	E. CABIN ACCOMMODATIONS			
E05-R	SEAT, PILOT INDIVIDUAL SLIDING	0414070	11.1	45.2
E05-0	SEAT, VERTICALLY ADJUSTABLE, PILOT	0414071	13.6	45.2
E07-S	SEAT, CO-PILOT INDIVIDUAL SLIDING	0414070	11.1	45.2
E07-0	SEAT, VERTICALLY ADJUSTABLE, CO-PILOT	0414071	13.6	45.2
E09-A	SEAT INSTALLATION, AUXILIARY	0400134-1	10.5*	66.5*
	UPPER BACK REST CUSHION	0711080-1	1.3	72.9
	LOWER SEAT CUSHION ASSEMBLY	0400136-9	6.4	64.5
	LAP BELT ASSEMBLY	S-1746-2	1.0	66.0
E15-R	BELT ASSY, PILOT LAP	S-2275-104	1.0	39.0

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
E15-S	SHOULDER HARNESS ASSY, PILOT	S-2275-202	1.0	39.0
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	2.0	39.0
E39-A	WINDOWS, OVERHEAD CABIN TOP (NET INCREASE)	0413492	0.5	49.0
E53-A	MIRROR, REAR VIEW	0400338	0.3	17.0
E55-A	SUN VISORS (SET OF 2)	0413473-1	1.0	27.0
E57-A	WINDOWS, TINTED (SET OF 4, NET CHANGE)	0400324-1	0.0	- -
E65-S	BAGGAGE NET	2015009-2	0.5	84.0
E85-A	DUAL CONTROLS (WHEEL, PEDALS & TOE BRAKES)	0460118-2	4.1	12.1
E93-R	HEATING SYSTEM, CABIN & CARBURETOR AIR (INCLUDES EXHAUST SYSTEM)	0450071	14.0	-22.0
	F. PLACARDS & WARNING			
F01-R	OPERATIONAL LIMITATIONS PLACARD VFR-DAY	0405058-1	NEGL	23.0
F01-0-1	OPERATIONAL LIMITATIONS PLACARD VFR-DAY NIGHT	0405058-2	NEGL	23.0
F01-0-2	OPERATIONAL LIMITATIONS PLACARD IFR-DAY NIGHT	0405058-3	NEGL	23.0
F04-R	INDICATOR, STALL WARNING AUDIBLE	0413029	0.5	21.5
	G. AUXILIARY EQUIPMENT			
G04-A	HOOK, TOW (NOT FACTORY INSTALLED)	0500228	0.5	200.0
G07-A	HOISTING RINGS, AIRCRAFT CABIN TOP	0541115	2.0	42.0
G13-A	CORROSION PROOFING, INTERNAL	0400027-2	4.5	68.0
G16-A	STATIC DISCHARGERS (SET OF 10)	0401015	0.4	117.6
G19-A	STABILIZER ABRASION BOOTS	0500041	2.5	179.4
G22-A	TOW BAR, AIRCRAFT NOSE WHEEL (STOWED)	0501019-1	1.6	84.0
G25-S-1	PAINT, OVERALL EXTERIOR (ACRYLIC)	0404030	8.5*	79.1*
	OVERALL WHITE BASE		8.1	79.0
	COLOR STRIPE		0.4	81.7
G25-S-2	PAINT, OVERALL EXTERIOR (MODIFIED POLY-URETHANE)	0404030	9.5*	79.1*
	OVERALL BASE WHITE		8.7	79.0
	WASH PRIME COATING		0.3	79.0
	COLOR STRIPE		0.5	81.7

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
G25-O	PAINT, OVERALL EXTERIOR (MODIFIED POLY-URETHANE--USED WITH INTERNAL CORROSION PROOFING, ITEM G13-A)	0404030	9.5	79.1
G31-A	CABLES, CORROSION RESISTANT CONTROL (NET CHANGE)	0400027	0.0	- -
G34-A	LIGHTER, CIGARETTE	0401023	0.1	18.0
G49-A	WING TIPS, MODIFIED CONICAL (NET CHANGE)	0523565	2.5	41.0
G55-A	FIRE EXTINGUISHER, HAND TYPE	0401001	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)	0701048	2.3	8.0
G88-A	WINTERIZATION KIT INSTALLATION, ENGINE	- -	1.2*	-24.2*
	COVER PLATES, FWD COWL (SET OF 2 INSTALLED)	- -	0.3	-37.0
	COVER PLATES, FORWARD COWL (STOWED)	- -	0.3	84.0
	CRANKCASE BREATHER TUBE INSULATION	- -	0.3	-24.0
G92-A	WINGS WITH 39 GALLON CAPACITY, EXTENDED RANGE FUEL TANKS (SET OF 2, NET CHANGE)	0401018	5.9	37.3
	H. AVIONICS & AUTOPILOTS			
H01-A	CESSNA 300 ADF	3910159-11	7.3*	18.2*
	RECEIVER WITH BFO (R-546E)	41240-0101	2.3	13.5
	INDICATOR (IN-346A)	40980-1001	0.9	15.5
	ANTENNA INSTALLATION	0470400-621	0.2	96.5
	LOOP ANTENNA INSTALLATION	3960104-1	1.4	24.2
	CABLE INSTALLATION	3950104-14	1.8	12.3
	MISC. INSTALLATION COMPONENTS		0.6	14.4
H07-A	CESSNA 400 GLIDESLOPE	3910157-10	4.0*	80.4*
	RECEIVER (R-443B)	42100-0000	2.1	105.3
	MOUNTING, RIGID	36450-0000	0.3	100.0
	ANTENNA	1200098-2	0.2	20.4
H13-A-1	CESSNA 400 MARKER BEACON	3910142-1	2.2*	35.4*
	RECEIVER (R-402A)	42410-5114	0.8	11.7
	ANTENNA, L SHAPED ROD	0770681-1	0.6	86.0
H13-A-2	BENDIX MARKER BEACON (EXPORT USE)	3910174-1	3.9*	85.7*
	RECEIVER	GM-247A	1.5	99.8
	ANTENNA, L SHAPED ROD	0770681-1	0.6	86.0
H16-A-1	CESSNA 300 TRANSPONDER	3910127-1	3.6*	18.6*
	TRANSCEIVER (RT-359A)	41420-1128	2.7	13.0

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	ANTENNA (A-109B)	41530-0001	0.1	67.0
H16-A-2	CESSNA 400 TRANSPONDER (EXPORT USE)	3910128-20	3.6*	18.6*
	TRANSCEIVER (RT-459A)	41470-1128	2.8	13.0
	ANTENNA (A-109B)	41530-0001	0.1	67.0
H22-A-1	CESSNA 300 NAV/COM 160 CHANNEL TRANSMIT	3910184-4	14.8*	29.2*
	RECEIVER-TRANSCEIVER (RT-308C)	42450-1114	6.4	13.6
	VOR/LOC INDICATOR (IN-514B)	45010-1000	0.6	17.8
	H34-A BASIC AVIONICS KIT	3910186-1	5.1	61.9
	VOLTAGE CONVERTER INSTL.	3940224	1.4	1.5
	MOUNT, WIRING & MISC HARDWARE	3930152-1	1.3	12.9
H22-A-2	CESSNA 300 NAV/COM, 720 CHANNEL 1ST UNIT	3910183	13.7*	31.8*
	RECEIVER-TRANSCEIVER (RT-385A)	46660-0000	5.4	13.6
	VOR/LOC INDICATOR	46860-1000	2.2	15.5
	H34-A BASIC AVIONICS KIT	3910186-1	5.1	61.9
	MOUNT, WIRING & MISC HARDWARE		1.0	12.9
H22-A-3	CESSNA 300 NAV/COM 720 CHANNEL 1ST UNIT WITH VOR/ILS	3910184	15.4*	28.6*
	RECEIVER-TRANSCEIVER (RT-328T)	43340-1124	6.9	13.6
	VOR/ILS INDICATOR (IN-525B)	45010-2000	0.7	17.8
	INSTALLATION COMPONENTS ARE SIMILAR TO H22-A-1		7.8	42.9
H22-A-4	CESSNA 300 NAV/COM, 720 CHANNEL, 1ST UNIT WITH VOR/ILS	3910184-3	13.6*	32.1*
	RECEIVER-TRANSCEIVER (RT-385A)	46660-0000	5.4	13.6
	VOR/ILS INDICATOR	46660-2000	2.3	15.5
	1ST UNIT INSTL. COMPONENTS ARE SIMILAR TO H22-A-2		6.1	53.9
H22-A-5	CESSNA 300 NAV/COM 720 CHANNEL 1ST UNIT	3900140	15.3*	28.7*
	RECEIVER-TRANSCEIVER (RT-328T)	43340-1124	6.9	13.6
	VOR/LOC INDICATOR (IN-514B)	45010-1000	0.6	17.8
	1ST UNIT INSTL. COMPONANTS ARE SIMILAR TO H22-A-1		7.8	42.9
H22-A-6	CESSNA 300 NAV/COM, 720 CH COM 1ST UNIT WITH VOR/LOC AUTOCOURSE INDICATOR	3910183	13.7*	31.8*
	RECEIVER-TRANSCEIVER (RT-385A)	46660-0000	5.4	13.6
	VOR/LOC INDICATOR (IN-385AC) (AUTOMATIC RADIAL CENTERING)	46860-1200	2.2	15.5
	BASIC AVIONICS KIT	3910186-1	5.1	61.9
	MOUNT, WIRING & MISC HARDWARE		1.0	12.9
H22-A-7	CESSNA 300 NAV/COM, 720 CH COM 1ST UNIT WITH VOR/ILS AUTOCOURSE INDICATOR	3910183	13.8*	31.7*
	RECEIVER-TRANSCEIVER (RT-385A)	46660-0000	5.4	13.6

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	VOR/ILS INDICATOR (IN-386AC)(AUTOMATIC RADIAL CENTERING)	46860-2200	2.3	15.5
	BASIC AVIONIC KIT	3910186-1	5.1	61.9
	MOUNT, WIRING & MISC HARDWARE		1.0	12.9
H25-A-1	CESSNA 300 NAV/COM, 720 CHANNEL 2ND UNIT WITH VOR/LOC	3910184-5	10.6*	13.9*
	RECEIVER-TRANSCEIVER (RT-328T)	42450-1114	6.4	13.6
	VOR/LOC INDICATOR (IN-514B)	45010-1000	0.6	17.8
	H37-A ANTENNA & COUPLER KIT	3910186	1.0	30.6
	VOLTAGE CONVERTER	3940224	1.4	1.5
	2ND UNIT COM SWITCH INSTL	3970118-3	0.2	17.0
	MISC 2ND UNIT ITEMS		1.0	13.0
H25-A-2	CESSNA 300 NAV/COM, 720 CH, SECOND UNIT WITH VOR/LOC	3910183	9.8*	15.8*
	RECEIVER-TRANSCEIVER (RT-385A)	46660-0000	5.4	13.6
	VOR/LOC INDICATOR	46860-1000	2.2	15.5
	H37-A ANTENNA & COUPLER KIT	3910186	1.0	30.6
	2ND UNIT COM SWITCHING INSTL	3970118-3	0.2	17.0
	MISC 2ND UNIT ITEMS		1.0	13.3
H25-A-3	CESSNA 300 NAV/COM 720 CH COM 2ND UNIT	3910183	9.8*	15.8*
	RECEIVER-TRANSCEIVER (RT-385A)	46660-0000	5.4	13.6
	VOR/LOC INDICATOR (IN-385AC) AUTOCOURSE (AUTOMATIC RADIAL CENTERING)	46860-1200	2.2	15.5
	H37-A ANTENNA & COUPLER KIT	3910186	1.0	30.6
	2ND UNIT COM SWITCHING INSTL	3970118-3	0.2	17.0
	MOUNT, WIRING & MISC HARDWARE		1.9	13.3
H25-A-4	CESSNA 300 NAV/COM 720 CH COM 2ND UNIT	3910182	11.4*	13.9*
	RECEIVER-TRANSCEIVER (RT-328T)	43340-1124	6.9	13.6
	VOR/LOC INDICATOR (IN-514B)	45010-1000	0.6	17.8
	H37-A ANTENNA & COUPLER KIT	3910186	1.0	30.6
	VOLTAGE REGULATOR (41010)	3940224	1.4	1.5
	2ND UNIT SWITCHING INSTL	3970118-3	0.2	17.0
	MOUNT, WIRING & MISC HARDWARE		1.3	13.4
H28-A-1	EMERGENCY LOCATOR TRANSMITTER	0470419-1	1.6*	102.4*
	TRANSMITTER (D & M DMELT-6)	C589511-0101	1.4	102.6
	ANTENNA	C589511-0109	0.1	101.3
H28-A-2	EMERGENCY LOCATOR TRANSMITTER (USED IN CANADA)	0470419-2	1.6*	102.4*
	TRANSMITTER (D & M DMELT-6C)	C589511-0102	1.4	102.6
	ANTENNA	C589511-0109	0.1	101.3
H34-A	BASIC AVIONICS KIT	3910186	5.1*	61.9*
	RADIO COOLING	3930152-1	1.0	15.6

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	NOISE FILTER (AUDIO)(ON ALTERNATOR)	3940148-1	0.1	-25.0
	LH COM ANTENNA CABLE	3950104-3	0.4	20.2
	OMNI ANTENNA CABLE	3950104-4	0.9	105.0
	OMNI ANTENNA INSTALLATION	3960102-9	0.5	220.9
	VHF L.H. COM ANTENNA	3960113-1	0.4	55.9
	MICROPHONE INSTALLATION	3970117-1	0.3	18.2
	COM SWITCHING INSTALLATION	3970118-2	0.2	17.0
	CABIN SPEAKER INSTL	3970123-6	1.1	51.1
	HEADPHONE INSTALLATION	3970125-1	0.2	17.2
H37-A	COM ANTENNA & OMNI COUPLER KIT (AVAILABLE ON 2ND UNIT NAV/COM FACTORY INSTL ONLY)		1.0*	30.6*
	RH COM ANTENNA INSTALLATION		0.4	55.9
	RH COM ANTENNA CABLE		0.4	20.2
	OMNI COUPLER (SIGNAL SPLITTER) & CABLE	S-2086-1	0.2	1.0
H55-A	MIKE-HEADSET COMBINATION (INCLUDES ALL-PURPOSE CONTROL WHEEL)	3970134	0.3	17.0
H56-A	PADDED HEADPHONE (STOWED)	C59653-0101	1.1	- -
	J. SPECIAL OPTION PACKAGES			
J01-A	152-II PACKAGE EQUIPMENT WITH RT-308C		36.7*	23.9*
	WITH RT-385A (AVAILABLE MID YEAR)		35.6*	24.8*
	A61-A VACUUM SYSTEM (FOR GYROS)	0413466-1	4.8	-1.5
	C43-A OMNI FLASHING BEACON	0406003-1	1.4	185.5
	C49-A-1 LANDING LIGHT SINGLE BULB	0401022	1.0	-28.3
	D64-A GYRO INSTALLATION	0413466	7.1	14.8
	D82-A OUTSIDE AIR TEMPERATURE IND	C668507-0101	0.1	22.0
	D88-A TURN COORDINATOR	C661003-0505	1.3	17.2
	D91-A RATE OF CLIMB IND.	C661080-0101	1.0	18.0
	E55-A SUN VISORS	0413473-1	1.0	27.0
	E85-A DUAL CONTROLS	0460118-2	4.1	12.1
	G34-A CIGARETTE LIGHTER	9910220-1	0.1	18.0
	H22-A-1 CESSNA 300 NAV/COM RT-308C	3900140	14.6	29.5
	H22-A-2 CESSNA 300 NAV/COM RT-385A		13.7	31.8
J04-A	152 II NAV PAC WITH RT-328T		14.7*	15.3*
	152 II NAV/PAC WITH RT-385A (MID-YEAR)		13.1*	16.6*
	H16-A-1 CESSNA 300 TRANSPONDER RT-359A	3910127-1	3.6	18.6
	H25-A-1 RT-308C NAV/COM 2ND UNIT ADDED	3910182	10.6	13.9
	H22-A-1 RT-308C 1ST UNIT DELETED		-14.8	29.2
	H22-A-3 RT-328T NAV/COM 1ST UNIT ADDED		15.3	28.9
	H22-A-2 RT-385A 1ST UNIT ADDED MID-YEAR		13.7	31.8