

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.

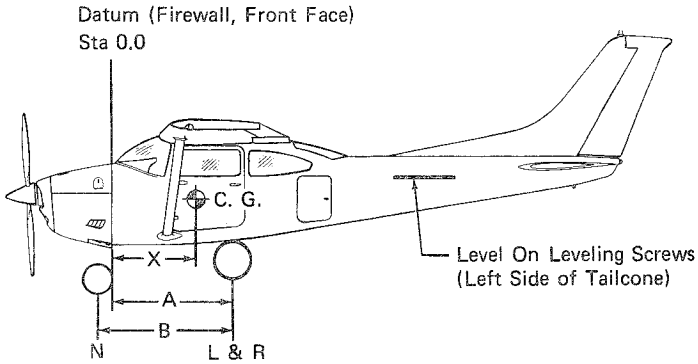
It is the responsibility of the pilot to ensure that the airplane is loaded properly.

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 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, 1000 pounds).
 - b. Deflate nose tire and/or lower or raise the nose strut to properly 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.

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

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

Item	Weight (Lbs.)	C.G. Arm (In.)	Moment/1000 (Lbs.-In.)
Airplane Weight (From Item 5, page 6-3)			
Add Oil:			
No Oil Filter (12 Qts at 7.5 Lbs/Gal)		-15.0	
With Oil Filter (13 Qts at 7.5 Lbs/Gal)		-15.0	
Add:			
Unusable Fuel (4 Gal at 6 Lbs/Gal)	24	48.0	1.2
Equipment Changes			
Airplane Basic Empty Weight			

Figure 6-1. Sample Airplane Weighing

WEIGHT AND BALANCE

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

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

NOTE

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

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

NOTE

Loading Graph information for the pilot, passengers, baggage/cargo and hatshelf is based on seats positioned for average occupants and baggage/cargo or hatshelf items loaded in the center of these 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/cargo or hatshelf 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 AND CARGO TIE-DOWN

A nylon baggage net having six tie-down straps is provided as standard equipment to secure baggage in the area aft of the rear seat and on the hatshelf. 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 92; two center eyebolts mount on the floor slightly inboard of each sidewall just aft of the baggage door approximately at station 109; the two aft eyebolts secure at the top of the rear baggage wall at station 124. If a child's seat is installed, only the center and aft eyebolts will be needed for securing the net in the area remaining behind the seat. A placard on the baggage door defines the weight limitations in the baggage areas.

A cargo tie-down kit consisting of nine tie-down attachments is available if it is desired to remove the rear seat (and child's seat, if installed) and utilize the rear cabin area to haul cargo. Two tie-down attachments clamp to the aft end of the two outboard front seat rails and are locked in place by a bolt which must be tightened to a minimum of fifty inch pounds. Seven tie-down attachments bolt to standard attach points in the cabin floor, including three rear seat mounting points. The seven attach points are located as follows: two are located slightly inboard and just aft of the rear doorposts approximately at station 69; two utilize the aft outboard mounting points of the rear seat; one utilizes the rearmost mounting point of the aft center attach point for the rear seat approximately at station 84 (a second mounting point is located just forward of this point but is not used); and two are located just forward of the center baggage net tie-down eyebolts approximately at station 108. The maximum allowable floor loading of the rear cabin area is 200 pounds/square foot; however, when items with small or sharp support areas are carried, the installation of a 1/4" plywood floor is recommended to protect the airplane structure. The maximum rated load weight capacity for each of the seven tie-downs is 140 pounds and for the two seat rail tie-downs is 100 pounds. Rope, strap, or cable used for tie-down should be rated at a minimum of ten times the load weight capacity of the tie-down fittings used. Weight and balance calculations for cargo in the area of the rear seat, baggage and hatshelf area can be figured on the Loading Graph using the lines labeled 2nd Row Passengers or Cargo and/or Baggage or Passengers on Child's Seat.

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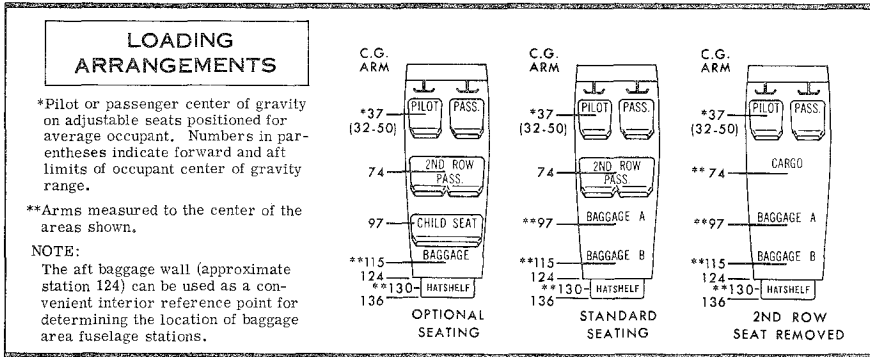
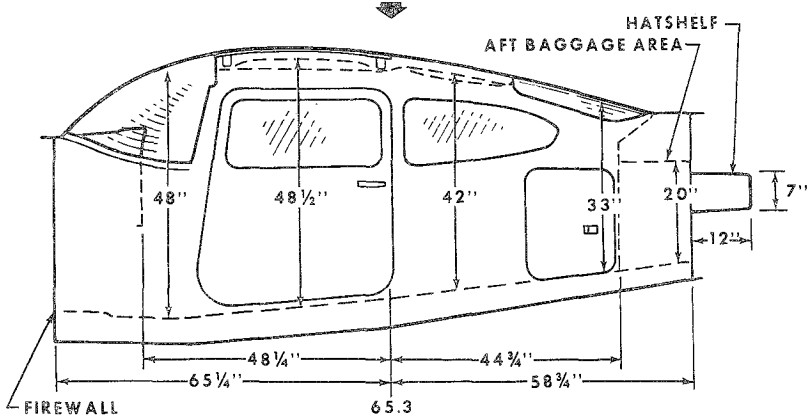


Figure 6-3. Loading Arrangements

CABIN HEIGHT MEASUREMENTS



DOOR OPENING DIMENSIONS

	WIDTH (TOP)	WIDTH (BOTTOM)	HEIGHT (FRONT)	HEIGHT (REAR)
CABIN DOOR	32"	36 1/2"	41"	38 1/2"
BAGGAGE DOOR	15 3/4"	15 3/4"	22"	20 1/2"

— WIDTH —
 ○ LWR WINDOW LINE
 * CABIN FLOOR

CABIN WIDTH MEASUREMENTS

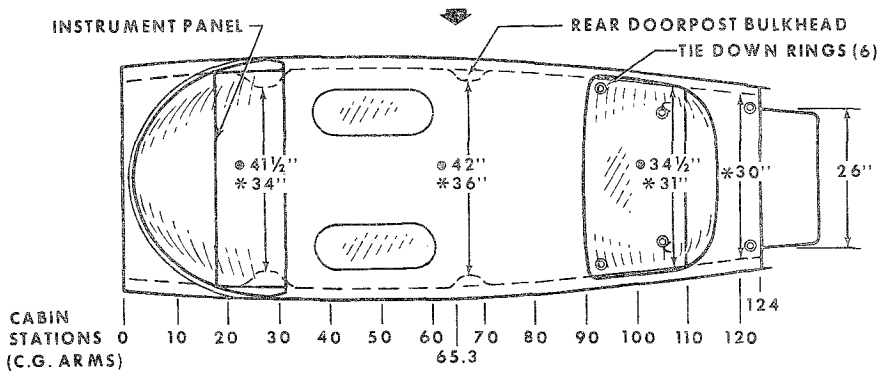


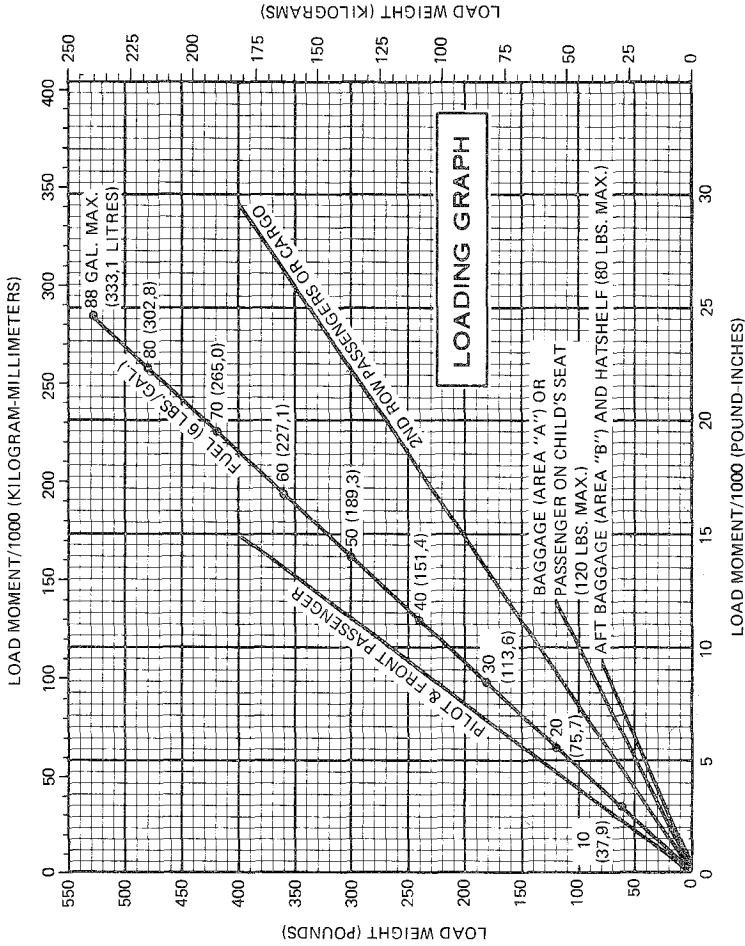
Figure 6-4. Internal Cabin Dimensions

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SAMPLE AIRPLANE	YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins./1000)
<p style="text-align: center;">SAMPLE LOADING PROBLEM</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 (88 Gal. Maximum)</p> <p>3. Reduced Fuel (65 Gal.)</p> <p>4. Pilot and Front Passenger (Station 32 to 50)</p> <p>5. Second Row Passengers</p> <p>6. Cargo Replacing Second Row Seats (Sta. 65 to 82)</p> <p>7. Baggage (Area "A") or Passenger on Child's Seat (Sta. 82 to 108) 120 Lbs. Maximum</p> <p>8. Baggage-Aft (Area "B") and Hatshelf (Sta. 108 to 136) 80 Lbs. Maximum</p> <p>9. RAMP WEIGHT AND MOMENT</p> <p>10. Fuel allowance for engine start, taxi and runup</p> <p>11. TAKEOFF WEIGHT AND MOMENT (Subtract step 8 from step 7)</p> <p>12. Locate this point (2950 at 127.4) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.</p>	1800	63.3
	390	18.1
	340	12.6
	340	25.2
	90	8.7
	2960	127.9
	-10	-5
	2950	127.4

Figure 6-5. Sample Loading Problem



- NOTES:
1. Line representing adjustable seats shows pilot and front seat 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.
 2. Hatshelf Maximum Load 25 Lbs.

Figure 6-6. Loading Graph

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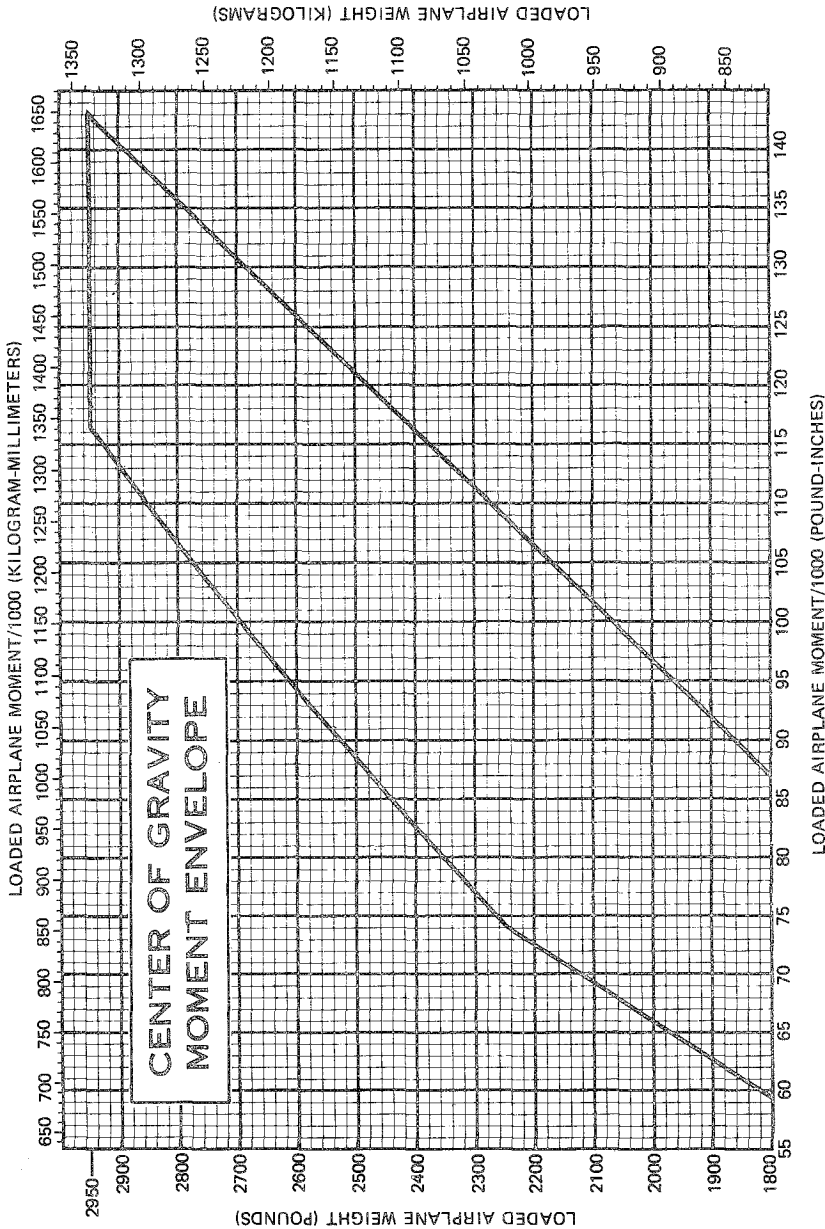


Figure 6-7. Center of Gravity Moment Envelope

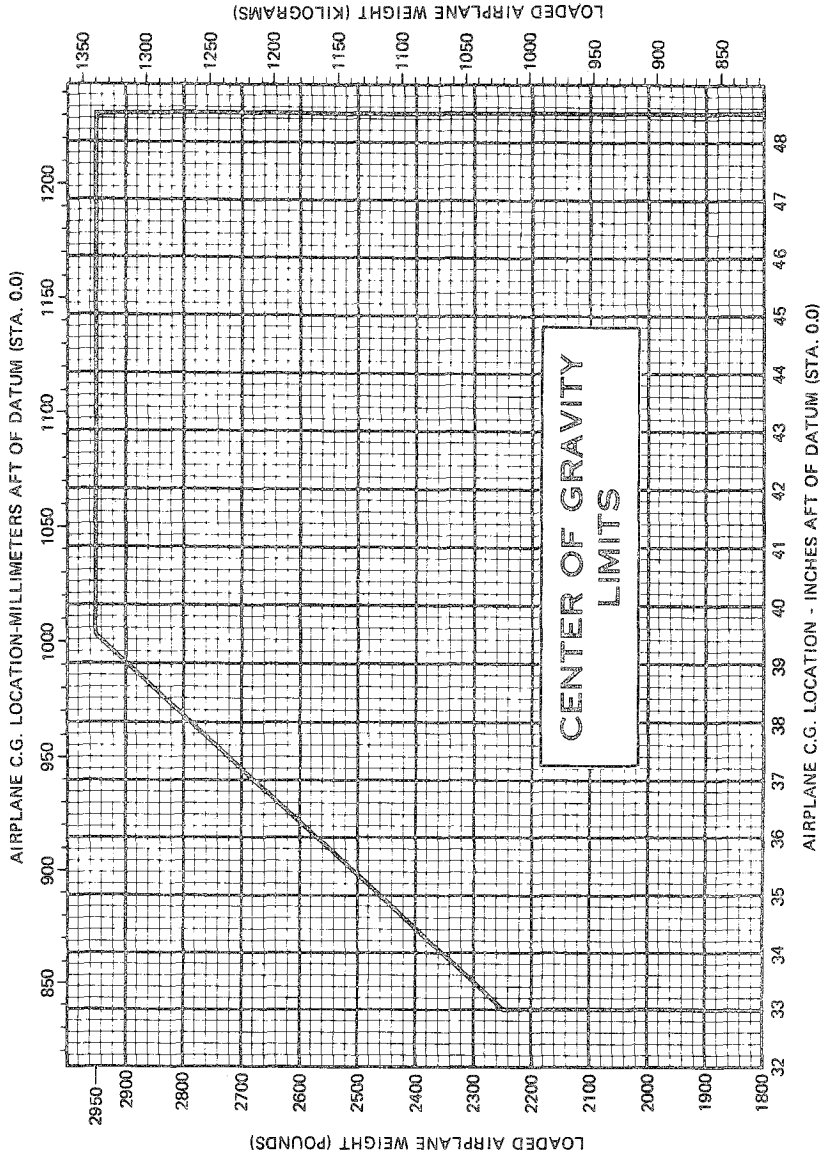


Figure 6-8. Center of Gravity Limits



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.

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
804-R-1	BRAKE ASSY, MCCAULEY C-30018 (LEFT) BRAKE ASSY, MCCAULEY C-30018 (RIGHT) TIRE, 6-PLY RATED BLACKWALL (EACH) WHEEL & TIRE ASSY, 5.00X5 NUSE WHEEL ASSY, CLEVELAND 40-77 TIRE, 6-PLY RATED BLACKWALL WHEEL & TIRE ASSY, 5.00X5 NUSE WHEEL ASSY, MCCAULEY C-30053 TIRE, 6-PLY RATED BLACKWALL	C163032-0111 C163032-0112 C262026-0102 1241156-104 1241156-12 — C262023-0101 0743621 C163005-0201 — C252023-0101 0741638 0243579 0541223 0741641 0541124-1 1441003-1	1.8 1.4 8.4 1.9* 2.8 5.0 1.2 8.6* 2.4 5.0 1.2 1.2 19.4* 3.9 5.7 0.6 2.6 4.5	55.5 55.5 58.9 58.9 -7.1* -7.1* -7.1* -7.1* -7.1* -7.1* 45.9* -8.0 58.0 58.0 58.9 58.9
804-R-2	BRAKE ASSY, MCCAULEY C-30018 (LEFT) BRAKE ASSY, MCCAULEY C-30018 (RIGHT) TIRE, 6-PLY RATED BLACKWALL (EACH) WHEEL & TIRE ASSY, 5.00X5 NUSE WHEEL ASSY, CLEVELAND 40-77 TIRE, 6-PLY RATED BLACKWALL WHEEL & TIRE ASSY, 5.00X5 NUSE WHEEL ASSY, MCCAULEY C-30053 TIRE, 6-PLY RATED BLACKWALL	C163032-0111 C163032-0112 C262026-0102 1241156-104 1241156-12 — C262023-0101 0743621 C163005-0201 — C252023-0101 0741638 0243579 0541223 0741641 0541124-1 1441003-1	1.8 1.4 8.4 1.9* 2.8 5.0 1.2 8.6* 2.4 5.0 1.2 1.2 19.4* 3.9 5.7 0.6 2.6 4.5	55.5 55.5 58.9 58.9 -7.1* -7.1* -7.1* -7.1* -7.1* -7.1* 45.9* -8.0 58.0 58.0 58.9 58.9
B10-S	FAIRING INSTALLATION, WHEEL (SET OF 3) NOSE WHEEL FAIRING MAIN WHEEL FAIRING WHEEL FAIRING BRAKE DISC FAIRING AXLE, STANDARD FAIRING MAIN GEAR (SET OF 2) AXLE, HEAVY DUTY MAIN GEAR (SET OF 2)	C252023-0101 0741638 0243579 0541223 0741641 0541124-1 1441003-1	1.2 1.2 19.4* 3.9 5.7 0.6 2.6 4.5	45.9* -8.0 58.0 58.0 58.9 58.9
B16-R B16-O	C. ELECTRICAL SYSTEMS			
C01-R-1 C01-R-2 C01-O C04-R	BATTERY, 24 VOLTS, STANDARD DUTY BATTERY, 24 VOLTS, MANIFOLD, STANDARD DUTY BATTERY, 24 VOLTS, HEAVY DUTY ALTERNATOR, CONTROL UNIT, 28 VOLT WITH HIGH AND LOW VOLTAGE SENSING GROUND SERVICE PLUG RECEPTACLE ELECTRIC SELEVATOR TRIM INSTL ELECTRICAL SYSTEM, PILOT & STALL WARNING HEADING SWITCH	C614001-0105 C614002-0101 C614001-0106 C611005-0101 0701019-2 2270007-2 3.8* 3.9 0.5 0770724-2 2291003-2 0770419 1260243-9	22.8 23.2 24.8 0.4 3.2 3.8* 0.5 0.5 2.1 0.1 0.1 0.1 0.5 NFD 1.9* 0.7	130.0 130.0 130.0 -0.3 -2.6* 217.7* 221.0 26.5
C22-A C23-A C25-A	LIGHTS, INSTRUMENT POST PANEL LIGHTS, ELECTRO-LUMINESCENT INSTL. MAP LIGHT, CONTROL WHEEL MOUNTED MAP (REQUIRES E89-2 TO 1260243-9) FRGM 1260243-2 TO 1260243-9)	0700615-11 0701013 0701042-2 C621001-0102	0.5 NFD 1.9* 0.7	61.7 — 208.6* 253.0

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
C46-A	FLASHER ASSY STOR (IN FIN TIP) STROBE LIGHTS, WHITE (EACH WING TIP) POWER SUPPLY (AEROFLASH 152-0009) LIGHT ASSY (AEROFLASH 73-145) (2) LIGHT INSTL, COML MOUNTED LANDING & TAXI LIGHT BULBS (SET OF 2)	C594502-0102 CR 95-8 0701018-4 C622008-0102 C622006-0107 0770417 4591	0.4 0.2* 2.3 0.3 0.6* 1.0	253.0 212.0 44.4* 46.7 25.0* -32.5
C49-S				
	D. INSTRUMENTS			
D01-R	INDICATOR, AIRSPEED			
D01-D	INDICATOR, TRUE AIRSPEED (NET CHANGE)	C661064-0212	0.6	16.0
D02-A	STANDARD ALTITUDE	1201108-7	0.3	16.4
D02-R	ALTITUDE, SENSITIVE (FEET & MILLIBARS)	0701028-1	1.0	14.4
D07-R-1	ALTITUDE, SENSITIVE (20 FT. ONLY)	C661071-0101	1.0	15.3
D07-R-2	ALTITUDE, SENSITIVE (REQUIRES RELOCATING STANDARD ALTITUDE)	C661075-0102	1.0	15.3
D10-A	ENCODING ALTITUDE (REQUIRES RELOCATING STANDARD ALTITUDE)	1213281	1.0	16.0
D10-A-1	ENCODING ALTITUDE (REQUIRES STANDARD TYPE ALTITUDE)	1213732	3.0	14.0
D10-A-2	ENCODING ALTITUDE (REQUIRES STANDARD TYPE ALTITUDE)		3.0	14.0
D16-A-3	ALTITUDE ENCODER, BLIND (INSTRUMENT PANEL INSTALLATION NOT REQUIRED)	0701099-1	1.5*	13.6*
D22-A	CASE & CARBURETOR AIR TEMPERATURE GAGE, ELECTRIC (0770417)	0750610-2	1.0	5.5
D23-S	CLOCK, ELECTRIC (DIGITAL) READOUT	C664508-0102	0.4	16.6
D23-R	CLOCK, ELECTRIC (DIGITAL) READOUT	C664515-0101	0.4	20.6
D34-R	COMPASS, MAGNETIC & MOUNT	1213679-3	1.1	16.5
D34-R	COMPASS, MAGNETIC & ENGINE & FUEL INSTRUMENT INSTALLATION, ECONOMY MIXTURE	C699545-0103	1.3	18.5*
D40-A	INDICATOR INSTALLATION, ECONOMY MIXTURE	0750609-2	0.7*	17.1
	EGT INDICATOR	C668501-0211	0.4	17.1
	THERMOCOUPLE PROBE	C668501-0204	0.1	-20.5
	THERMOCOUPLE LEAD WIRE (IC)	C668501-0206	0.1	-20.5
D64-S	GYRO SYSTEMAL INDICATOR	0701030-2	6.9	13.7*
	DIRECTIONAL INDICATOR	C661075-0101	2.2	14.0
	ATTITUDE INDICATOR	C661076-0102	2.2	14.0
D64-0-1	HOSES, FITTINGS, SCREWS, CLAMPS ETC. GYRO SYSTEM INSUL. FOR NAV-U-MATIC 300A AUTOPILOT (ITEM 31-A-2)	0701038-1	6.7*	13.5*
	DIRECTIONAL INDICATOR	40760-0104	3.2	13.4

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
D64-D-2	ATTITUDE INDICATOR	C661076-0102	3.2*	14.6*
D67-A	GYROSCOPE NON SLAVED HSI INSTL RQS H09-A	0701107	3.2*	13.6*
D73-R	HOURMETER, INSTAL LATOR	C661076-0102	0.5*	17.9*
D85-R	OIL PRESSURE INDICATOR	1200744	0.1	1.0
D88-S-1	GAGE, MANIFOLD PRESSURE	C664503-0101	0.9	15.8
D88-S-2	TACHOMETER, AIR TEMPERATURE	S1711-1	0.9*	13.8*
D88-CO-1	INDICATOR, INSTAL LATOR	C668507-0101	0.7	16.9
D88-CO-2	INDICATOR, TURN COORDINATOR (28 VOLT ONLY)	C668020-0117	1.3	16.0
D91-S	INDICATOR, TURN COORDINATOR (110/30 VOLT)	C661003-0505	1.3	16.0
	INDICATOR, TURN & BANK	C661003-0506	1.3	16.0
	INDICATOR, RATE OF CLIMB	42320-0028	2.0	15.5
		S-1303N2	1.0	15.4
		C661080-0101		
E05-R	E. CABIN ACCOMMODATIONS			
E05-D	SEAT, ADJUSTABLE FORE & AFT - PILOT	0714048-1	13.0	44.0
E07-S	SEAT, ARTICULATING VERT. ADJ. - PILOT	0714049-1	24.0	41.5
E09-S	SEAT, ADJUSTABLE FORE & AFT - CO-PILOT	0714049-2	24.0	41.5
E11-A	SEAT, 2ND ROW BENCH	0714047-1	23.0	80.5
E15-S	SEAT, INSTALLATION, AUXILIARY (CHILDS)	0501009-5	8.2*	104.2*
E19-D	SEAT ASSY, LAP (PILOT SEAT)	0714050-1	6.9	104.4
E23-S	BELT ASSY, HARNES	S1746-5	0.9	101.1
E27-O	SHOULDER HARNES ASSY, PILOT	S2275-103	1.0	37.0
E35-A-1	PILOT & CO-PILOT INERTIA REEL INSTL. (NET CHANGE)	S2275-201	0.6	37.0
E35-A-2	BELT & SHOULDER HARNES ASSY, CO-PILOT (SET OF 2)	0701077	3.6	92.0
E37-O	BELT ASSY, 2ND ROW OCCUPANTS (SET OF 2)	S2275-3	1.6	37.0
E39-A	BELT & SHOULDER HARNES ASSY, 2ND ROW	S-1746-1	1.6	74.5
E43-A	INTERIOR, VINYL SEAT COVERS (NET CHANGE)	S-2275-7	3.0	74.5
E45-A	OPENABLE REAR CABIN DOOR (NET CHANGE)	CES-1154	0.0	-
E47-A	WINDSHIELD OVERHEAD CABIN TOP (NET CHANGE)	0701065-8	2.3	67.0
	WINDSHIELD OVERHEAD CABIN TOP SEATING	0701017-1	0.6	45.5
	CURTAIN, REAR WINDOW	0701084-1	3.9	62.3
	OXYGEN SYSTEM, 4 PORT	0700707-12	1.5	122.0
		0701091-1	34.0*	125.0*

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E49-A	OXYGEN CYLINDER-EMPTY	C166001-0601	25.0	128.3
E50-A	OXYGEN - 48 CU FT @ 1800 PSI		4.0	128.3
E51-A	OXYGEN MASKS, PILOT & PASSENGER	C166005	1.5	55.0
E55-S	OXYGEN MASKS, PILOT & PASSENGER (SET OF 2)	1201124	0.1	16.0
E59-A	CUP HOLDER, 1ST ROW (INSTALLED ARM) (EACH)	1215073-1	0.9	47.0
E65-S	HEADREST, 2ND ROW (INSTALLED ARM) (EACH)	1215073-1	0.9	47.0
E71-A	SUN VISORS (SET OF 2)	0701024-1	1.0	53.0
	APPROACH PLATE DOWN NET	0715046-1	0.5	12.5
	BAGGAGE TIE DOWN LATCHES & SEAT RAIL CLAMPS (USE INSTALLED CARGO ARM) (STOWED)	1215042-1	0.5	103.0
	(NOT FACTORY INSTALLED)	0701029-1	1.2	
E85-A	DUAL CONTROLS & ICE BRAKES	0760101-2	6.7	14.1
E89-S	WHEEL, WHEEL PILLAR, ALL PURPOSE MOUNTED	0760650-3	-	-
	INCLUDES MIC SWITCH AND PANEL	1260243-2	-	-
E93-R	AUXILIARY MIC JACK	0750201	18.0	-16.0
	HEATING SYSTEM, CABIN & CARBURETOR AIR (INCLUDES EXHAUST SYSTEM)			
	F. PLACARDS, WARNINGS & MANUALS			
F01-R	PLACARD, OPERATIONAL LIMITATIONS-VFR DAY	0705186	NEGL	-
F01-O-1	PLACARD, OPERATIONAL LIMITATIONS-VFR DAY-NIGHT	0705186	NEGL	-
F01-O-2	PLACARD, OPERATIONAL LIMITATIONS-IFR DAY-NIGHT	0705186	NEGL	-
F04-R	INDICATOR, STALL WARNING (HORN-AUDIBLE)	S-2077-8	1.0	17.5
F16-R	PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL, STOWED	01141-13PH	1.3	-
	G. AUXILIARY EQUIPMENT			
G01-A	TAILCONE LIFT HANDLES (SET OF 2)	2201009-1	1.0	186.5
G07-A	HOISTING RINGS, AIRPLANE (NOT FACTORY INSTALLED)	0700612-1	1.5	45.6
G13-A	CORROSION PROOFING, INTERNAL	0760007-1	7.0	70.0
G16-A	STATIC DISCHARGERS (SET OF 10)	1201131-2	0.4	130.5

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
G19-A	STABILIZER ABRASION BOOBS (STOKED ARM SHC6N)	0500041-2	2.7	206.0
G22-S	TOWBAR & TELESCOPING HANDLE (STOKED)	0501019-1	1.6	97.0
G22-O	PAINT, OVERALL EXTERIOR, MODIFIED PLY-URETHANE	0704039	12.0*	91.0*
G25-S	OVERALL WHITE BASE			
G31-A	COLORED STRIPE			
G55-A-1	CABLES, CORROSION RESISTANT (NET CHANGE) FIRE EXTINGUISHER, HAND TYPE (FCR USE WITH STANDARD PILOT SEAT)	0760007-1 0701014-1	11.9 0.4 3.0	92.2 82.3 35.0
G55-A-2	FIRE EXTINGUISHER, HAND TYPE (FCR USE WITH STANDARD PILOT SEAT)	0701014-2	3.0	29.0
G67-A	PEDAL EXTENSIONS, KLUDEK, REMOVABLE - SET OF 2 (STOWABLE) - ENGINE	0701048	2.3	8.0
G89-A	WINTERIZATION KIT, ENGINE WINTER FRONT INSTALLED ARM SHC6N	0752647-2	1.1* 0.5	-29.9* -34.3
H. AVIONICS & AUTOPILOTS				
H01-A-1	CESSNA 300 ADF WITH BFO RECEIVER WITH BFO (R-546E) COMPARATOR INDICATOR (IN-346A) ADF LOOP ANTENNA & ASSOC. WIRING	3910159-1 41240-0101 40980-1001 3960104-1 0770750-6J8	8.5* 3.5 0.9 2.1 0.3	22.1* 15.0 16.0 35.4 96.2
H01-A-2	CESSNA 400 ADF (M/FIC) MOUNTING BOX & ASSOC. WIRING ADF RECEIVER (WITH BFO (R-446A)) COMPARATOR INDICATOR (IN-346A) ADF LOOP ANTENNA & ASSOC. WIRING	3910160-1 43090-1114 40980-1001 3960104-1 0770750-6J8	1.7 8.5* 3.5 0.9 2.1	17.0 22.1* 13.0 16.0 35.4
H04-A-1	CESSNA 400 ADF (M/FIC) MOUNTING BOX & ASSOC. WIRING ADF RECEIVER (WITH BFO (R-446A)) COMPARATOR INDICATOR (IN-346A) ADF LOOP ANTENNA & ASSOC. WIRING	3910160-1 43090-1114 40980-1001 3960104-1 0770750-6J8	1.7 8.5* 3.5 0.9 2.1	17.0 22.1* 13.0 16.0 35.4
H04-A-2	CESSNA 400 DME INSTALLATION ANTENNA RECEIVER-TRANSMITTER INDICATOR ANTENNA	3910166-6 - - - -	1.7 7.4* 6.3 0.2 13.5*	11.0 13.8* 11.0 88.4 101.9*
H05-A-1	CESSNA 400 R-NAV SYSTEM (REQUIRES NAV/CCM)	3910167-16 44000 44020-1100 42940 3910168-18	1.6 0.2 1.6 0.7*	11.6 13.7 134.0 88.4 12.0*

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
MODEL 182Q

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H05-A-2	INDICATOR NET CHANGE R-NAV COMPUTER (A-478A) INDICATOR ADDED, IN-442AR INDICATOR DELETED, IN-385A	44100-1100 43910-1000	3.8 1.0 -1.4 2.4	12.5 15.5 12.2 12.0
H07-A-1	COMPUTER INDICATOR (INCLUDES VOR/ILS INDICATOR, GLIDE SLOPE, FCR, VOR/LOC) RECEIVER - MOUNTED ON UPPER WINDSHIELD ANTENNA INDICATOR (IN-386A) (INDICATOR VOR/ILS 17 LBS)	3910203 3910157 42100-0000 36450-0000 1270098-1 46860-2000	2.1 0.2 0.2 0.1	130.1 120.1 129.9 15.5
H07-A-2	CESSNA 400 GLIDE SLOPE WITH 3CC ILS INDICA- TOR AUTO COURSE, IN-386A INDICATOR EXCHANGE FOR IN-386A INDICATOR FLYNON SLAVED INSTRUMENTATION (REQUIRES L64-0-3 GYRO INSTRUMENTATION)	3910157 3910195-4	0.2 7.3	15.5 45.2
H09-A	CESSNA 400 GLIDE SLOPE WITH 3CC ILS INDICA- TOR AUTO COURSE, IN-386A INDICATOR EXCHANGE FOR IN-386A INDICATOR FLYNON SLAVED INSTRUMENTATION (REQUIRES L64-0-3 GYRO INSTRUMENTATION)	3910157 3910195-4	0.2 7.3	15.5 45.2
H11-A-1	PSI CONVERTER (B-475A) PT-10PS-A TRANSMITTER (HIGH FREQUENCY PT-10PS-28 REMOVE ANTENNA LOAD BOX ANTENNA INSTL 31 INCHES LONG)	44690-2000 47240-0000 3910193 C582103-0102 C582103-0301 C589502-0201 3960117 3910158	4.4 0.9 19.8 8.6 4.2 0.3 2.5	15.0 132.1 198.0 110.7 117.0 152.1 196.1
H11-A-2	ANTENNA INSTL 31 INCHES LONG SUN 1000 SINGLE BAND RECEIVER (ASB-125) PAID 1000 SINGLE BAND RECEIVER (ASB-125) CU-110 ANTENNA COUPLER (LOAD BOX) ANTENNA INSTL 31 INCHES LONG BEACON	99681 99681 99816 3910164 4270120-1 1270127 391420-1128 41420-1128 3910128-2 41420-1128 3910183	5.5 5.5 0.2 0.2 0.7 1.0 2.2 0.2 4.8 2.0 8.3	118.0 115.0 117.4 131.4 131.0 111.5 167.8 167.0 112.9
H13-A	CESSNA 400 TRANSMITTER (RT-358A) ANTENNA INSTL 31 INCHES LONG RECEIVER - TRANSMITTER (RT-358A)	3910164 4270120-1 1270127 391420-1128 41420-1128 3910128-2 41420-1128 3910183	0.7 1.0 2.2 0.2 4.8 2.0 8.3	117.4 131.0 111.5 167.8 167.0 112.9
H16-A-1	CESSNA 400 TRANSMITTER (RT-455A) RECEIVER - TRANSMITTER (RT-455A) ANTENNA INSTL 31 INCHES LONG RECEIVER - TRANSMITTER (RT-455A)	3910164 4270120-1 1270127 391420-1128 41420-1128 3910128-2 41420-1128 3910183	1.0 2.2 0.2 4.8 2.0 8.3	131.4 131.0 111.5 167.8 167.0 112.9
H16-A-2	CESSNA 400 TRANSMITTER (RT-455A) RECEIVER - TRANSMITTER (RT-455A) ANTENNA INSTL 31 INCHES LONG RECEIVER - TRANSMITTER (RT-455A)	3910164 4270120-1 1270127 391420-1128 41420-1128 3910128-2 41420-1128 3910183	1.0 2.2 0.2 4.8 2.0 8.3	131.4 131.0 111.5 167.8 167.0 112.9
H22-A-1	CESSNA 400 NAV/COM 72C CH CCM 1ST UNIT REQUIRES H34-A TO BE OPERATIVE RECEIVER - TRANSMITTER (RT-385A)	46660-1100	5.5	12.5

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H22-A-2	VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC HARDWARE CESSNA 300 NAV/COM 72C CH CCM WITH IN-385A (AUTOMATED) RADIAL CENTERING INDICATOR) EXCHANGE FOR IN-385A, NET CHANGE (INDICATOR WITH IN-385A) CESSNA 400 NAV/COM 72C CH CCM WITH SERIES INDICATOR 1ST UNIT REQUIR-TRANSCIEIVER (RT-485A) VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC HARDWARE	46860-1000 3910183	1.6 1.2 0.2	15.5 11.8 15.5
H22-A-3	VOR/LOC OPERATING SYSTEM 2ND UNIT REQUIR-TRANSCIEIVER (RT-485A) VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC HARDWARE	3910189	8.3*	12.9*
H22-A-4	VOR/LOC OPERATING SYSTEM 2ND UNIT REQUIR-TRANSCIEIVER (RT-328T) 72C CH VOR/LOC INDICATOR (IN-514B) 360 CH BASIC AVIONICS KIT, SIMILAR TC H34-A VOLTAGE CONVERTER (41C1) MOUNT, WIRING & MISC HARDWARE CESSNA 300 NAV/COM 1ST UNIT VCR/LCC OPERATING SYSTEM (FOR EXPCRT C/NLV) REQUIR-TRANSCIEIVER (RT-528E-1) 360 CH VOR/LOC INDICATOR (IN-514B) TO H34-A BASIC AVIONICS KIT, SIMILAR TC H34-A VOLTAGE CONVERTER (41C1) MOUNT, WIRING & MISC HARDWARE	47360-1100 46860-1000 3910202-5 43340-1124 45010-1000 3910200 3940257-3 3910202-5 42430-1124 45010-1000 3910200 3940257-3 3910183	5.5 1.6 1.2 17.7* 6.9 0.6 7.8 1.2 1.2 18.1*	12.5 15.5 11.8 29.7* 11.0 16.3 54.0 1.0 1.8 29.3*
H22-A-5	VOR/LOC OPERATING SYSTEM 2ND UNIT REQUIR-TRANSCIEIVER (RT-385A) VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC HARDWARE CESSNA 300 NAV/COM 72C CH CCM WITH SERIES INDICATOR 2ND UNIT REQUIR-TRANSCIEIVER (RT-485A) VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC HARDWARE	3910189	8.3*	11.0 16.3 54.0 1.0 1.8 13.0*
H25-A-1	VOR/LOC OPERATING SYSTEM 2ND UNIT REQUIR-TRANSCIEIVER (RT-385A) VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC HARDWARE CESSNA 300 NAV/COM 72C CH CCM WITH SERIES INDICATOR 2ND UNIT REQUIR-TRANSCIEIVER (RT-485A) VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC HARDWARE	46660-1100 46860-1000 3910189	5.5 1.6 1.2 8.3*	12.5 15.5 11.8 13.0*
H25-A-2	VOR/LOC OPERATING SYSTEM 2ND UNIT REQUIR-TRANSCIEIVER (RT-385A) VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC HARDWARE CESSNA 300 NAV/COM 72C CH CCM WITH SERIES INDICATOR 2ND UNIT REQUIR-TRANSCIEIVER (RT-485A) VOR/LOC INDICATOR (IN-385A) MOUNT, WIRING & MISC HARDWARE	47360-1100 46860-1000	5.5 1.6 1.0 10.9*	12.5 15.5 11.8 12.8*
H25-A-3	VOR/LOC OPERATING SYSTEM 2ND UNIT REQUIR-TRANSCIEIVER (RT-328T) 72C CH ANTENNA & COUPLER KIT SIMILAR TC H37-A	43340-1124 45010-1000 3910201-6	6.9 0.6 1.0	11.0 16.3 38.9

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H37-A	OMNI ANTENNA INSTALLATION CABIN TOP COM ANTENNA RH SPIKE ON CABIN TOP AUDIO CONTROL PANEL AND WIRING HEADPHONE INSTALLATION MICROPHONE INSTALLATION ANTENNA & COUPLER KIT (RWD) & AVAILABLE WITH 2ND & CABLE. LH VHF COM ANTENNA & COUPLER. LH VOR OMNI ADF ANTI PRECEDENCE ANTENNA PLUS MOUNTED COM ANTENNA (FLUSH MTD IN LEADING EDGE VERTICAL FIN HEADSET COMBINATION. LIGHT KIT REQUIRES E89-D INSTALLATION ADDED (STC'D)	3960102-6 3960113-2 3970131-1 3970137-2 3970139-1 3910185 S-2212-1 3910154-84 3910154-63 C596530-J101 C596531-O101 3910205	0.6 0.5 1.9 0.3 0.5 1.0*	250.6 63.4 12.5 141.8 18.5 38.9*
H46-A	ANTENNA & COUPLER KIT (RWD) & AVAILABLE		0.8	47.4
H52-A	ADF ANTI PRECEDENCE ANTENNA		0.2	5.0
H55-A	PLUS MOUNTED COM ANTENNA		0.8	184.6
H56-A	HEADSET COMBINATION. LIGHT KIT REQUIRES		1.4	
H70-A	REMOTE TRANSDUCER IDENT SWITCH		0.2	12.0
			1.1	14.0
			0.2	17.0
J01-A	J. SPECIAL OPTION PACKAGES			
	SKYLANE II KIT	0701019-1	53.8*	43.2*
	GROUND PITOT & STALL WARNING	0770724-1	0.5	28.5
	COURTESY ENTRANCES	0700615-9	0.5	26.5
	NAV LIGHT DEACTORS	0701013	NE	61.7
	FLASHING BEACON LIGHT	0701042-1	1.8	208.6
	TRUE AIR SPEED IND. (NET CHANGE)	1201008-1	0.2	14.4
	STAL CONTROL AIR SOURCE	0701028-1	0.3	14.1
	DUAL CONTROL ADE (8-5465)	0760101-2	0.5	22.8
	CESSNA 300 TRANSPONDER (RT-385A)	3910157-1	0.1	31.9
	CESSNA 300 NAV/COM TRANSMITTER	3910183	0.1	12.9
	CESSNA 300 LOCALIZER KIT	0470019	0.4	130.6
	EMERGENCY CASUALTY KIT		0.4	54.5
	BASIC AVIONICS (NET CHANGE)		7.8*	54.5*
	SKYLANE II (ONLY) (NET CHANGE)	3910186	15.7*	107.4
	400 WALKER (R-402A)	3910157	3.9	13.0
	400 WALKER (R-402A)	3910164	3.5	13.0
	NAV/COM 2ND UNIT	3910182	9.3	13.0
	ANTENNA & COUPLER KIT	3910185	1.0	38.9
J04-A				

