

# 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.

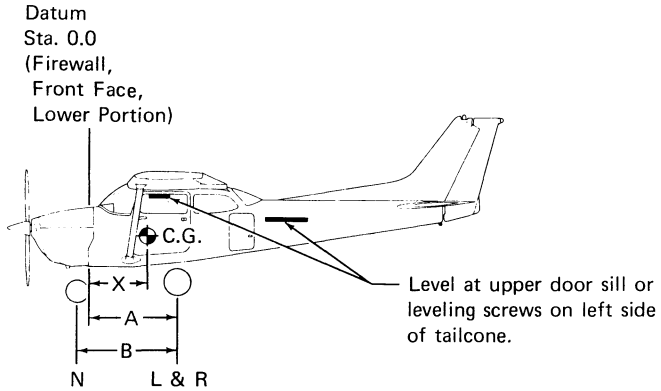
It should be noted that specific information regarding the weight, arm, moment and installed equipment list for this airplane can only be found in the appropriate weight and balance records carried in the airplane.

## AIRPLANE WEIGHING PROCEDURES

1. Preparation:
  - a. Inflate tires to recommended operating pressures.
  - b. Remove the fuel tank sump quick-drain fittings and fuel 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

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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	

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

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)		-14.0	
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



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

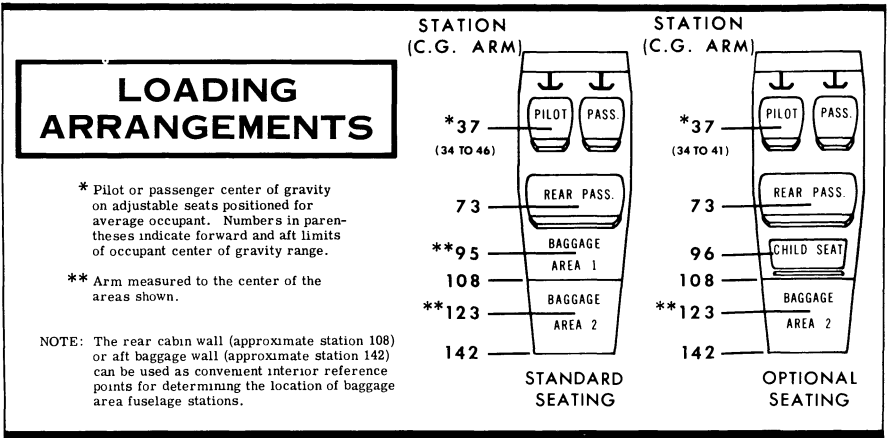
In addition to the basic empty weight and moment noted on these records, the C.G. arm (fuselage station) is also shown, but need not be used on the Sample Loading Problem. The moment which is shown must be divided by 1000 and this value used as the moment/1000 on the loading problem.

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

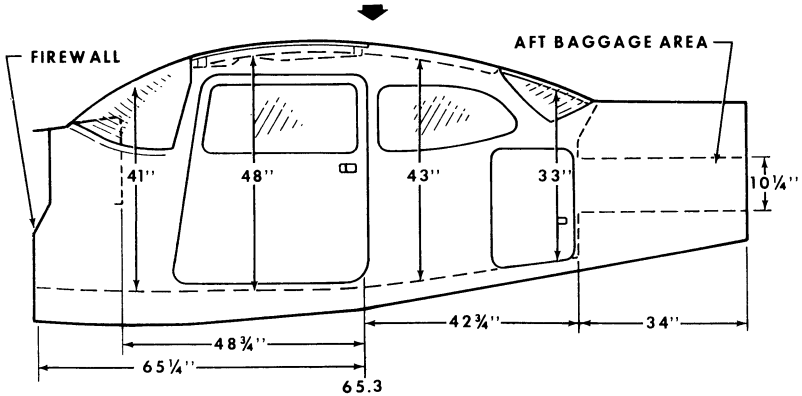
### NOTE

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 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.



**CABIN HEIGHT MEASUREMENTS**



**DOOR OPENING DIMENSIONS**

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

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

**CABIN WIDTH MEASUREMENTS**

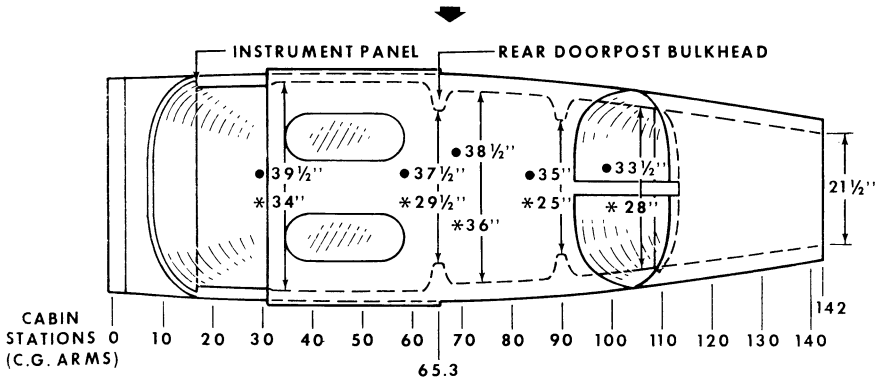


Figure 6-4. Internal Cabin Dimensions

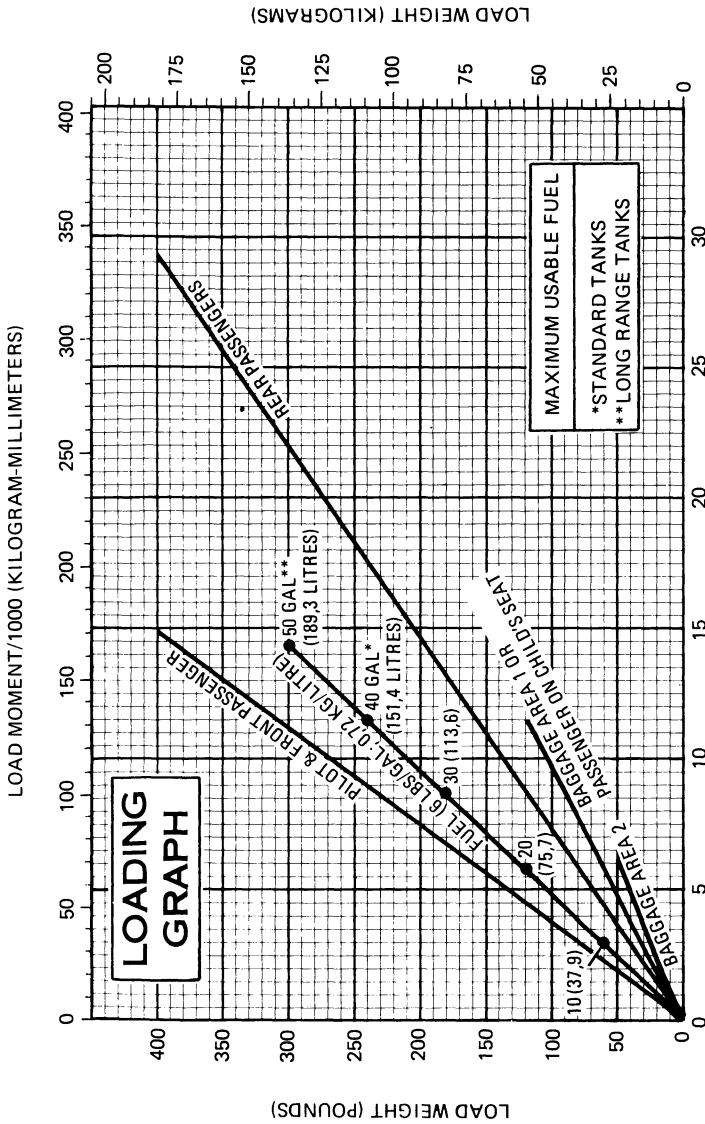


SAMPLE AIRPLANE	YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb. - ins. /1000)
<p style="text-align: center;"><b>SAMPLE LOADING PROBLEM</b></p> <p>1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil) . . . . .</p> <p>2. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (40 Gal. Maximum) . . . . .</p> <p>Long Range Tanks (50 Gal. Maximum) . . . . .</p> <p>3. Pilot and Front Passenger (Station 34 to 46) . . . . .</p> <p>4. Rear Passengers . . . . .</p> <p>5. * Baggage Area 1 or Passenger on Child's Seat (Station 82 to 108) 120 Lbs. Max. . . . .</p> <p>6. * Baggage Area 2 (Station 108 to 142) 50 Lbs. Max . . . . .</p> <p>7. TOTAL WEIGHT AND MOMENT</p>	1454	57.6
	240	11.5
	340	12.6
	170	12.4
	96	9.1
	2300	103.2
	8. Locate this point (2300 at 103.2) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.	
<b>NOTE</b>		
* The maximum allowable combined weight capacity for baggage areas 1 and 2 is 120 lbs.		

Figure 6-5. Sample Loading Problem

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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

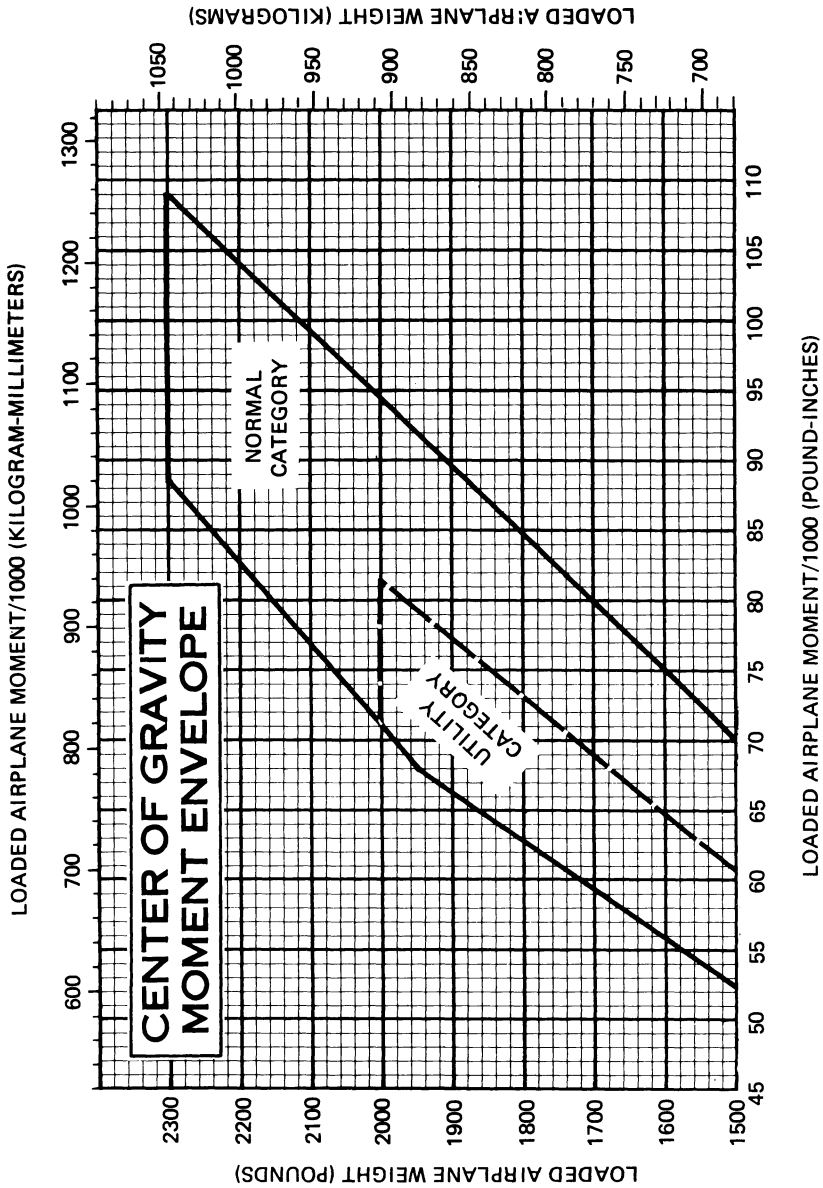


Figure 6-7. Center of Gravity Moment Envelope

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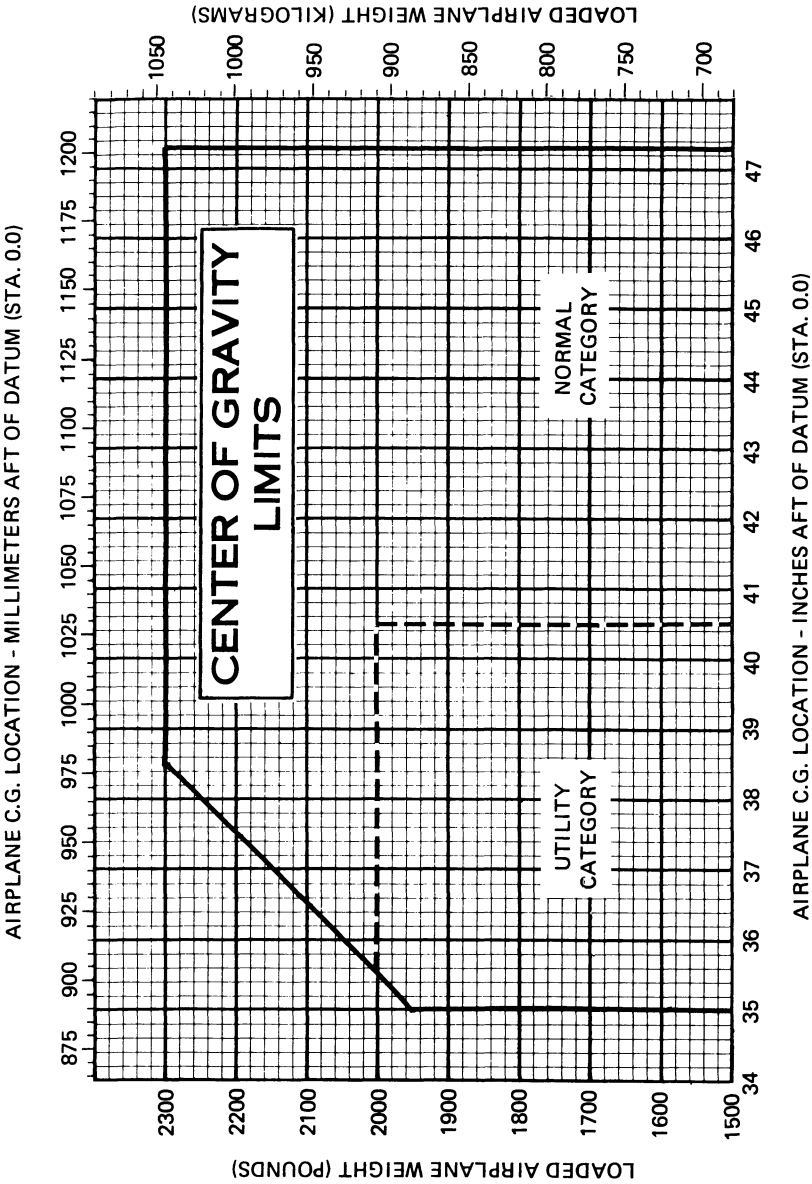


Figure 6-8. Center of Gravity Limits

## EQUIPMENT LIST

The following equipment list is a comprehensive list of all Cessna equipment available for this airplane. A separate equipment list of items installed in your specific airplane is provided in your aircraft file. The following list and the specific list for your airplane have a similar order of listing.

This equipment list provides the following information:

An **item number** gives the identification number for the item. Each number is prefixed with a letter which identifies the **descriptive** grouping (example: A. Powerplant & Accessories) under which it is listed. Suffix letters identify the equipment as a required item, a standard item or an optional item. Suffix letters are as follows:

- R = required items of equipment for FAA certification
- S = standard equipment items
- O = optional equipment items replacing required or standard items
- A = optional equipment items which are in addition to required or standard items

A **reference drawing** column provides the drawing number for the item.

### NOTE

If additional equipment is to be installed, it must be done in accordance with the reference drawing, accessory kit instructions, or a separate FAA approval.

Columns showing **weight (in pounds)** and **arm (in inches)** provide the weight and center of gravity location for the equipment.

### NOTE

Unless otherwise indicated, true values (not net change values) for the weight and arm are shown. Positive arms are distances aft of the airplane datum; negative arms are distances forward of the datum.

### NOTE

Asterisks (\*) after the item weight and arm indicate complete assembly installations. Some major components of the assembly are listed on the lines immediately following. The summation of these major components does not necessarily equal the complete assembly installation.

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	<b>A. POWERPLANT &amp; ACCESSORIES</b>			
A01-R	ENGINE, LYCOMING O-320-H2AD (INCLUDES ELECTRIC STARTER, VACUUM PUMP PAD, SPARK PLUGS & CARBURATOR)	0550333	269.5*	-19.7*
A05-R	FILTER, CARBURETOR AIR	C294510-0301	0.5	-26.0
A09-R	ALTERNATOR, 28 VOLT, 60 AMP (BELT DRIVE)	C611503-0102	10.7	-29.0
A17-R	OIL COOLER INSTALLATION	0550333	2.5*	-2.5*
A21-A	OIL COOLER INSTALLATION (SPIN-ON ELEMENT)	0501060	2.5	-6.5
A33-R	OIL FILTER INSTALLATION (FIXED PITCH-LANDPLANE)	C161001-0310	35.9*	-38.5*
A33-O	PROPELLER ASSY. (MCCAULEY)	IC150/DTM7557	30.1	-39.1
A41-R	3.5 INCH PROP SPACER ADAPTOR (MCCAULEY)	C4516	3.6	-35.4
A61-S	PROPELLER ASSY. (FIXED PITCH-FLOATPLANE)	C161001-0307	37.5*	-38.6*
	PROPELLER ASSY. (MCCAULEY)	L1175/ETM8042	31.8	-39.1
	3.5 INCH PROP SPACER ADAPTOR (MCCAULEY)	C4516	3.6	-35.4
	SPINNER DOVE	0550320	2.0*	-41.4*
	FWD SPINNER BULKHEAD	0550321-8	1.2	-43.1
	AFT SPINNER BULKHEAD	0350321-10	0.4	-49.8
	VACUUM SYSTEM INSTALLATION	0350321-10	0.4	-37.3
	DRY THERM	03501054	4.3*	-3.0*
	FILTER	C431003-0101	2.8	-6.3
	VACUUM GAUGE	L201075-2	0.2	4.7
A70-A	RELIEF VALVE-REGULATOR	C668509-0101	0.1	16.2
A73-A	PRIMER SYSTEM-ENGINE THREE CYLINDER (NET CHANGE)	C482001-0401	0.5	4.5
	OIL QUICK DRAIN VALVE	0501056-1	0.5	-12.0
		11701015	0.0	-
	<b>B. LANDING GEAR &amp; ACCESSORIES</b>			
B01-R	WHEEL, BRAKE & TIRE ASSY, 6.00X6 MAIN (2) WHEEL ASSY., MCCAULEY (LEFT) (RIGHT) (MCCAULEY) (EACH) (EACH)	C163018-0201	41.7*	57.8*
		C163005-0101	7.6	58.2
		C163032-0115	1.9	54.5
		C163003-0114	8.5	58.2
		C262003-0102	1.8	58.2
		C455023-0102	1.9*	-6.8*
		C455018-0101	2.4	-6.8
B04-R	WHEEL & TIRE ASSY., 5.00X5 NOSE WHEEL ASSY., MCCAULEY	C163005-0201	2.4	-6.8

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
B10-S	TIRE, 4-PLY BLACKWALL TUBE FAIRING INSTALLATION; WHEEL (SET OF 3) NOSE WHEEL FAIRING MAIN WHEEL FAIRING	C262003-0102 C262023-0101 0541225-1	4.7 1.2 17.8* 4.0 5.7	-6.8 -6.8 -47.1* -4.9 60.3
C. ELECTRICAL SYSTEMS				
C01-R-1	BATTERY, 24 VOLT, 14 AMP HR	0870060-1	27.5	0.0
C01-R-2	BATTERY, 24 VOLT, 14 AMP HR	C614001-0101	22.8	0.0
C01-O	BATTERY, 24 VOLT, 17 AMP HR	C614001-0102	24.8	0.0
C04-R	REGULATOR, 28 VOLT, T. ALTERNATOR	C611004-0101	2.7	3.5
C07-A	GROUND SER. VICE PLUG RECEPTACLE	0501064	0.5	-2.6
C16-O	HEATING SYSTEM, PITOT (NET CHANGE)	0422355	0.5	-24.4
C22-A	LIGHTS. INSTRUMENT POST (REQUIRES INSTALL- ATION OF E34-O DELUXE GLARESHIELD)	0513094	0.5	16.5
C25-A	LIGHT, MAP (CONTROL WHEEL MOUNTED)	0570087	0.2	21.5
C28-S	LIGHT, MAP (INSTRUMENT PANEL FLOOD (DOOR POST MOUNTED))	0700149	0.3	32.0
C31-A	LIGHTS, COURTESY ENTRANCE (SET OF 2)	0521101	0.5	61.0
C40-A	DETECTOR, NAVIGATION LIGHT (SET OF 2)	0701013-1, -2	NEG.	184.2*
C43-A	LIGHT INSTALLATION, OMNIFLASH BEACON BEACON LIGHT ON FIN TIP FLASHER POWER SUPPLY RESISTOR (MEMCOR)	0906003 C621001-0102 C594502-0102 0895-6	2.1* 0.4 0.8 0.3	243.0 205.8 208.1 43.3*
C46-A	LIGHT INSTALLATION, WING TIP STROBE FLASHER POWER SUPPLY (SET OF 2) STROBE LIGHT, WING TIP (SET OF 2)	0501027 C622008-0102 C622006-0101	3.4* 0.2 0.2	47.0 43.5 43.5
C49-S	LIGHT INSTALLATION, COWL MOUNTED LANDING LAMP, 250 WATT (G.E.)	0240312	1.6*	-27.1*
C49-O	LIGHTS, DUAL COWL MOUNTED LANDING LAMP, 250 WATT (G.E.) (EACH)	42235 0352141 4591	0.8 3.2* 0.5	-23.0* -23.0* -29.0
D. INSTRUMENTS				
D01-R	INDICATOR, AIRSPEED	C661064-0102	0.6	16.2
D01-O	INDICATOR, TRUE AIRSPEED	0243279	0.7	18.3
D04-A	INDICATOR, ALTERNATE SOURCE STATIC AIR	0501017	0.2	15.5

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D07-R	ALTIMETER (SENSITIVE	C661071-0101	1.0	14.0
D07-O-1	ALTIMETER (SENSITIVE (50 FT. MARKINGS)	C661071-0102	1.0	14.0
D07-O-2	ALTIMETER (SENSITIVE) 20FT. MARKINGS	C661025-0102	1.0	14.0
D10-A	ALTIMETER, 2ND UNIT INSTALLATION (DUAL)	2001015	1.0	14.5
D16-A-1	ENCODING ALTIMETER (REQUIRES RELOCATION OF REGULAR ALTIMETER)	0501049	3.0	14.0
D16-A-2	ENCODING ALTIMETER, FEET & MILLIBARS (REQUIRES RELOCATION OF REGULAR ALTIMETER)	0501049	3.0	14.0
D16-A-3	ENCODING ALTIMETER, USED WITH TRANSPONDER, (BLIND ENCODER-DOES NOT REQUIRE INSTRUMENT PANEL MOUNT)	0501059	1.5*	14.4*
D19-R	AMMETER	S-1320-5	0.3	16.5
D22-A	GAGE, CARBURETOR AIR TEMPERATURE	0513339	1.0	14.0
D25-S	CLOCK, ELECTRIC	C664508-0101	0.4	16.3
D28-R	COMPASS, MAGNETIC-INSTALLATION	0513262-1	0.5	14.0
D38-R	INSTRUMENT CLUSTER, LH & RH FUEL QUANTITY	C669511-0102	0.5	16.5
D41-R	INSTRUMENT CLUSTER, OIL PRESS, OIL TEMP.	C669512-0102	0.5	16.5
D64-S	GYROS, ATTITUDE & DIRECTIONAL INDICATORS (NON-NAV-O-MATIC)	0501054-1	5.8*	14.0*
D64-O	DIRECTIONAL INDICATOR (AV. OF 4) ATTITUDE INDICATOR (AV. OF 3) GYRO INSTALLATION FOR 300 NAV-O-MATIC	C661075 C661076 0501054-2 040760	2.7 2.2 6.9* 3.3	13.2 13.4 13.4* 13.3
D67-A	RECORDING INDICATOR, FLIGHT HOUR	C661076	2.2	13.4
D82-S	GAGE, QUANTITY AIR TEMPERATURE	0501052	0.5	18.3
D83-R	TACHOMETER INSTALLATION, ENGINE RECORDING TACH INDICATOR	C668507-0101 0506004	0.1 0.7	28.6 12.1*
D88-S	INDICATOR, TURN COORDINATOR	C668020-0118	1.0*	16.0
D88-O	INDICATOR, TURN COORDINATOR (FOR USE WITH NAV-O-MATIC 200A AND 300A)	S-1605-10 C661003-0505	0.3 0.3	3.0 15.8
D91-S	INDICATOR, VERTICAL SPEED	42320-0028	1.9	14.6
E02-S	E. CABIN ACCOMMODATIONS ARM RESTS - 2ND ROW (SET OF 2)	C661080-0101 0715039	1.0 1.5	14.9 72.5



ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
E05-R	SEAT, ADJUSTABLE FORE & AFT - PILOT		12.6	44.0
E05-D	SEAT, INFINITE ADJUSTABLE - PILOT		23.0	41.0
E07-S	SEAT, ADJUSTABLE FORE & AFT - CO-PILOT		12.6	44.0
E07-D	SEAT, INFINITE ADJUSTABLE - CO-PILOT		23.0	79.5
E09-S	SEAT, REAR (ONE PIECE BACK CUSHION)		23.0	79.5
E09-D	SEAT, REAR (TWO PIECE BACK CUSHION)		8.4*	101.1*
E11-A	SEAT, INSTALLATION, CHILDS FOLD AWAY LAP BELT ASSY	0501009	0.8	100.8
E15-R	PILOT LAP BELT ASSY	S-1746-5	0.7	100.8
E15-D	SHOULDER HARNESS ASSY, PILOT	S-174005-1	0.7	100.8
E19-D	SHOULDER HARNESS INERTIA REEL INSTALLATION AND HARNESS (NET CHANGE)	S-2275-103	1.0	37.0
E23-S	PILOT & CO-PILOT - REPLACES STD BELTS	S-2275-201	0.6	37.0
E27-S	BELT ASSY, 2ND ROW (SET OF 2)	0501046-1	2.0	82.0
E27-D	SEAT BELT & SHOULDER HARNESS ASSY FOR 2ND ROW SEATING	S-2275-3	1.6	37.0
E34-D	DELUXE GLASS SHIELD (NET CHANGE)	S-1746-39	3.0	70.0
E35-A	LEATHER SEAT COVERING (NET CHANGE)	S-2275-8	3.2	70.0
E37-A	WINDOW, HINGED, RH DOOR (NET CHANGE)	0515034	1.0	21.0
E39-A	WINDOW, S, OVERHEAD CABIN TOP (NET CHANGE)	CE-2-1151	2.0	62.0
E43-A	VENTILATION SYSTEM, REAR SEAT	0511803	2.3	47.0
E49-A	BEVERAGE CUP HOLDER	0511800	0.9	47.0
E50-A	HEADREST, 1ST ROW (WT EACH)	0700322	1.7	60.0
E51-A	HEADREST, 2ND ROW (WT EACH)	0501023	0.1	15.0
E53-A	MIRROR, REAR VIEW (SET OF 2)	1215073-11	0.7	47.0
E54-A	SUN VISORS, TINTED FRONT, SIDE & REAR (NET CHANGE)	1215073-11	0.7	86.0
E57-A	BAGGAGE NET	0500312	0.3	15.9
E65-S	RINGS, CALLED TIE-DOWN (STOWED) (USE ARM AS INSTALLED WITH CARGO)	0500040	0.3	15.9
E71-A	CONTRULS TRIM SYSTEM -CHILLED AIR	0300267	0.0	32.8
E85-A	COMPRESSOR (LOCATED ABOVE AFT BAGGAGE)	2015009	0.5	95.0
E87-A	CONDENSER (LOCATED UNDER SIDE)	0500042	1.0	-
E88-A	EVAPORATOR (LOCATED UNDER SIDE)	0513290-1	4.9	12.4
E93-R	HEATING SYSTEM, CABIN & CARBURETOR AIR (INCLUDES EXHAUST SYSTEM)	0510166	1.9	9.4
			63.5*	43.2*
			20.2	-
			5.1	123.0
			17.3	96.2
			17.5	-21.0

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	F. PLACARDS & WARNING			
F01-R	PLACARD; OPERATIONAL LIMITATIONS-DAY VFR	0505053-1	NEGL	-
F01-O-1	PLACARD; OPERATIONAL LIMITATIONS-DAY NIGHT VFR	0505053-2	NEGL	-
F01-O-2	PLACARD; OPERATIONAL LIMITATIONS-DAY NIGHT VFR	0505053-3	NEGL	-
F01-O-3	PLACARD; OPERATIONAL LIMITATIONS-DAY VFR FLOATPLANE	0505053-16	NEGL	-
F01-O-4	PLACARD; OPERATIONAL LIMITATIONS-DAY NIGHT VFR - FLOATPLANE	0505053-17	NEGL	-
F01-O-5	PLACARD; OPERATIONAL LIMITATIONS-DAY NIGHT VFR - FLOATPLANE	0505053-18	NEGL	-
F04-R	NOTE THE ABOVE PLACARDS ARE INSTALLED ACCORDING TO AIRCRAFT EQUIPMENT			
F13-S	INDICATOR; AUDIBLE PNEUMATIC STALL WARNING OVERVOLT WARNING LIGHT; ALTERNATOR	0523112	0.2 NEGL	28.5 -
	G. AUXILIARY EQUIPMENT			
G07-A	RINGS; AIRPLANE HOISTING (CABIN TOP)	0541115	0.9	49.1
G13-A	CORROSION PROOFING; INTERNAL	0500036	10.0	77.0
G16-A	STATIC DISCHARGERS	0501048	0.4	143.2
G19-A	SIZER ABRASION BOOTS	0500041	2.7	206.0
G22-S	TOW BAR (STOWED)	0501019	1.6	96.0
G25-S-1	PAINT OVERALL EXTERIOR (MODIFIED POLY URETHANE)	0504035	12.6*	90.4*
	OVERALL BASE WHITE		11.6	90.5
	COLOR STRIPE		0.6	89.2
	WASH PRIME COATING (OVERALL COVER)		0.4	90.5
G25-S-2	PAINT OVERALL COVER (ACRYLIC)	0504035	11.7*	90.4*
	OVERALL WHITE		10.8	90.5
	COLOR STRIPE		0.5	89.2
	WASH PRIME		0.4	90.5
G25-O-1	PAINT SCHEME-SKYHAWK II	0504035	12.6*	90.5*
G25-O-2	PAINT OVERALL EXTERIOR (MODIFIED POLY-URETHANE--USED WITH INTERNAL CORROSION PROOFING; ITEM G13-A)	0504035	12.6*	90.4*

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
G31-A	CABLES, CORROSION RESISTANT CONTROL (NET CHANGE)	0500036	0.0	-
G55-A	FIRE EXTINGUISHER INSTALLATION	0501011	3.0*	43.8*
G58-A	FIRE EXTINGUISHER MOUNTING BRACKET	C421001	2.6	44.0
G67-A	FIRE EXTINGUISHER FUELING ASSISTING - SET OF 2 (STOWABLE - REMOVABLE ARM SHOWN)	0513415	0.3	42.2
G88-A-1	WINTERIZATION KIT INSTALLATION, ENGINE BREATHERTH TUBE INSULATION	0701048	1.7	16.3
G88-A-2	TWO COWL INLET AIR COVERS (INSTALLED) (STOWED)	0501008	0.8*	-22.7*
G92-0	WINTERIZATION KIT INSTL, FLOATPLANE ONLY (INSTALLED)	0552011	0.4	-13.8
	BREATHERTH TUBE INSULATION (INSTALLED)	0552132-1; -2	0.3	-32.0
	COWL OUTLET COVER (1)	0552132-1; -2	0.3	-95.0
	FUEL SYSTEM, LONG RANGE WING TANKS (NET CHANGE)	0552011	1.0*	-7.2*
			0.4	-12.0
			0.6	-4.0
			0.6	95.0
			9.5	48.0
H. AVIONICS & AUTOPILOTS				
H01-A	CESSNA 300 ADF INSTALLATION CONSISTS OF RECEIVER WITH 8FO (R-546E) INDICATOR (IN-346A) SENSE ANTENNA INSTALLATION LOOP ANTENNA INSTALLATION RECEIVER MOUNT, WIRES AND MISC ITEMS DME INSTALLATION, NARCO RECEIVER (DME-190) MOUNTING BOX	3910159-2 41240-0101 40980-1001 0570400-632 3960104-1 3910166-1 3312-400	7.0*	21.0*
	ANTENNA, GLIDESLOPE (INCLUDES VOR/ILS INDICATOR--NET CHANGE FOR VOR/LDC RECEIVER (R-443B))	UDA-3	2.3	12.1
	ANTENNA (LOCATED--UPPER WINDSHIELD) VOR/ILS INDICATOR (IN-386A) (INDICATOR NET CHANGE, ACTUAL WT IS 2.3 LBS)	3910157	0.9	14.0
	CESSNA 400 GLIDESLOPE (INCLUDES VOR/ILS INDICATOR--NET CHANGE FOR VOR/LDC RECEIVER (R-443B))	42100-0000	0.2	108.6
	ANTENNA (LOCATED--UPPER WINDSHIELD) VOR/ILS INDICATOR (IN-386A) (INDICATOR NET CHANGE, ACTUAL WT IS 2.3 LBS)	1200098-2	1.4	39.3
	CESSNA 400 GLIDESLOPE (INCLUDES VOR/ILS INDICATOR, WT NET CHANGE FOR	46860-2000	2.2	13.7
		3910157	7.5*	18.5*
			4.9	11.3
			0.6	11.3
			0.2	86.1
			4.4*	81.1*
H07-A-1	CESSNA 400 GLIDESLOPE (INCLUDES VOR/ILS INDICATOR--NET CHANGE FOR VOR/LDC RECEIVER (R-443B))	42100-0000	2.1	117.0
	ANTENNA (LOCATED--UPPER WINDSHIELD) VOR/ILS INDICATOR (IN-386A) (INDICATOR NET CHANGE, ACTUAL WT IS 2.3 LBS)	1200098-2	0.2	30.0
	CESSNA 400 GLIDESLOPE (INCLUDES VOR/ILS INDICATOR, WT NET CHANGE FOR	46860-2000	0.1	15.5
		3910157	4.1*	81.1*

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H11-A-1	VOR/LOC INDICATOR) RECEIVER (R-4438) ANTENNA (LOCATED-UPPER WINDSHIELD) VOR/ILS INDICATOR (IN-386AC)(INDICATOR WT NET CHANGE, ACTUAL WT IS 2.3 LBS) PAN TRONICS PT-10A HF TRANSCIEVER 2ND UNIT ANTENNA LOAD BOX (PANEL MOUNTED) HF POWER SUPPLY (REMOTE) NOISE FILTER, HIGH FREQ. POWER & SIGNAL CABLES ANTENNA INSTALLATION, 351 IN. LONG SUNAIR ASB-125 HF TRANSCIEVER, 2ND UNIT ANTENNA SUPPLY (REMOTE) TRANSCIEVER (PANEL MOUNTED) ANTENNA INSTALLATION, 351 IN. LONG MISC SWITCHES, WIRES, AND ETC PAN TRONICS PT-10A HF TRANSCIEVER 3RD UNIT SAME AS 2ND UNIT (ITEM H-11-A-1) SUNAIR ASB-125 HF TRANSCIEVER, 3RD UNIT CESSNA 400 MARKER BEACCN RECEIVER (R-402A) ANTENNA, L SHAPED ROD BENDIX MARKER BEACON (USED IN EXPORT A/C) RECEIVER, GM-247A ANTENNA, L SHAPED ROD CESSNA 300 TRANSPONDER TRANSCIEVER (RT-359A) ANTENNA CESSNA 400 TRANSPONDER (USED FOR EXPORT) TRANSCIEVER (RT-459A) ANTENNA CESSNA 300 NAV/COM, 720 CH, FIRST UNIT WITH VOR/LOC RECEIVER-TRANSCIEVER (RT-385A) VOR/LOC INDICATOR (IN-385A) H29-A BASIC AVIONICS KIT MOUNT, WIRE & MISC HARDWARE CESSNA 300 NAV/COM, 720 CH, FIRST UNIT WITH VOR/LOC AUTOCOURSE INDICATOR	42100-0000 1200098-2 46860-2200  3910156-9 C582103-0102 C589502-0301 C582103-0301 0570400-715  3960117 3910158-1 99816 99683 99681 3960117  3910156-11  3910158-5  3910164-1 42410-5128 0770681-1 3910174-2 3940185-1 0770681-1 3910121-17 41420-1128  3910128-21 41470-1128  3910183-4  46660-0000 46860-1000 3910186  3910183	2.1 0.2 0.1  20.2* 4.2 4.2 8.5 0.15 2.0 22.0* 0.3 8.5 4.6 0.3 20.2*   2.3* 0.7 0.7 3.1* 1.5 0.4* 0.0* 0.3 4.2* 2.9 0.3 15.8*  5.4 2.2 7.0 15.8*	117.3 130.0 135.5  88.8* 10.4 112.5 114.4 -0.5 141.0 144.8* 182.0 112.0 114.0 110.4 147.4 57.5* 88.8*    34.5* 11.8 136.0* 100.8* 115.9 136.0 125.8* 11.1 126.0 125.1* 11.1 126.0*  11.5 14.5 52.6 10.0 30.0*
H11-A-2				
H11-A-3				
H11-A-4				
H13-A-1				
H13-A-2				
H16-A-1				
H16-A-2				
H22-A-1				
H22-A-2				

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H25-A-1	RECEIVER-TRANSCIEVER (RT-385A)	46660-0000	5.4	11.5
	VOR/LOC INDICATOR (IN-385AC) (AUTOMATIC RADIAL CENTERING)	46860-1200	2.2	14.5
H25-A-1	H34-A BASIC AVIONICS KIT	3910186	7.0	52.6
	MOUNT, WIRING & MISC HARDWARE		1.2	10.0
	CESSNA 300 NAV/COM 2ND UNIT WITH VOR/LOC	3910183-6	9.8*	14.6*
	RECEIVER-TRANSCIEVER (RT-385A)	46660-0000	5.4	11.5
H25-A-2	VOR/LOC INDICATOR (IN-385A)	46860-1000	2.2	14.5
	VHF COMMUNICATIONS ANTENNA CABLE	3960111-1	0.4	27.8
	OMNI ANTENNA COUPLER (SIGNAL SPLITTER)	3960111-1	0.4	27.8
	COMM. ANTENNA, RH. SIDE HARDWARE	3960113-2	0.4	7.0
H28-A-1	CESSNA 300 NAV/COM 720 CH COM 2ND UNIT WITH VOR/LOC	3910183	9.8*	14.6*
	RECEIVER-TRANSCIEVER (RT-385A)	46660-0000	5.4	11.5
	VOR/LOC INDICATOR (IN-385AC) (AUTOMATIC RADIAL CENTERING)	46860-1200	2.2	14.5
	VHF COM ANTENNA CABLE ASSY	3960111-1	0.4	27.8
H28-A-2	OMNI ANTENNA COUPLER (SIGNAL SPLITTER)	3960113-2	0.4	7.0
	COMM. ANTENNA R.H. SIDE	0470419-3	1.8*	10.0
	MOUNT, WIRING & MISC HARDWARE	C589511-0101	1.6	116.6*
	EMERGENCY LOCATOR TRANSMITTER (D-&M DMELT-6)	C589511-0109	0.1	122.0
H31-A-1	EMERGENCY LOCATOR TRANSMITTER (USED IN CANADA)	0470419-4	1.8*	116.6*
	TRANSMITTER (D & M DMELT-6)	C589511-0102	1.6	116.4
H31-A-2	ANTENNA	C589511-0109	0.1	122.0
	NAV-O-MATIC 200A	3910162-1	9.8*	148.6*
	CONTROLLER-AMPLIFIER	3930144-6	1.6	13.1
	TURN COORDINATOR (NET CHNG) (G-300A)	42320-0014	0.6	12.0
H34-A	WING INSTALLATION (PA-495)	0522632-1	6.1*	68.1*
	SERVO-UNIT (PA-495)	42330	3.9	68.9
	NAV-O-MATIC 300A (AF395)	3910163-1	11.5*	98.8*
	CONTROLLER-AMPLIFIER & MOUNT	051395A	1.1	42.5
H34-A	D64-O GYRO INSTALLATION NET CHANGE	42320-0028	1.1	13.1
	D68-O TURN COORDINATOR NET CHANGE	0522632-1	0.6*	12.0
	WING INSTALLATION (PA-495)	42330	6.1*	68.1*
	SERVO UNIT	3940151-1	3.9	68.9
H34-A	RELAY INSTALLATION	3910186-2	7.0*	52.6*
	BASIC AVIONICS KIT--AVAILABLE WITH 1ST			

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H43-A	UNIT NAV/COM ONLY	3930152-1	1.1	10.2
H55-A	RADIO COOLING INSTL. NOISE FILTER-AUDIO (ON ALTERNATOR) COM ANTENNA CABLE OMNI ANTENNA CABLE OMNI ANTENNA INSTALLATION LH VHF COM ANTENNA CABIN SPEAKER INSTL. MIKE INSTL--HANDHELD HEADPHONE INSTALLATION AUDIO CONTROL PANEL INSTL AVIONICS OPTION D NAV-O-MATIC WING PROV MIKE HEADSET COMBO. INSTL (HEADSET STOWED) (CONTROL ARM SHOWN) (INCLUDES ALL PURPOSE PADDED HEADPHONES (STOWED)	3940146-1 3950122-3 3960122-4 3960113-1 39701123-5 39701124-1 3970125-4 3970131-1 0522632-2 3970112-1	0.4 0.8 0.4 0.2 0.3 0.9 1.7 0.3	-26.1 27.8 116.0 220.8 62.4 37.9 17.2 14.5 12.5 68.2 13.0
H56-A	J. SPECIAL OPTION PACKAGES	C59653-0101	1.1	-
J01-A	SKYHAWK II EQUIPMENT CONSISTS OF ITEMS D01-0 TRUE AIRSPEED IND. (NET CHANGE) C16-0 HEATED PITOT SYSTEM E85-A DUAL CONTROL SECTORS C40-A NAV LIGHT DEFACTORS C31-A COURTESY LIGHTS C43-A FLASHING BEACON LIGHT SOURCE D04-A STATIC ALT LOCATOR (ELT) G28-A EMERGENCY LOCATOR XMTD (ELT) G29-0 SKYHAWK II PAINT (NET CHANGE) H28-A NAV/COM 385A VOR/LCC NAV-PAC INSTALLATION (SKYHAWK II ONLY) H21-A-1 385A NAV/COM VOR/LOC 2ND UNIT H21-A 300 ADF (546E) H16-A-1 300 TRANSPONDER (RT-359) FLJATPLANE FUSELAGE STRUCTURAL MODIFICA- TIONS & FITTINGS (OPTION C) FLOATPLANE CONWDECK V BRACE (INSTALLED) FLOATPLANE AILERON-RUDDER INTERCONNECT FLOATPLANE ONLY (INSTALLED)	0500510 0513279 0422355 0513335 0701013 0506003 0501017 470419 0504035 3910183-4 3910161	26.0* 0.1 0.6 4.9 NEGL 0.5 2.2 0.2 1.0 0.8 15.8* 20.8 9.8 7.0 4.0 6.1	45.4* 16.7 24.4 12.4 - 61.0 184.5 115.6 116.6 - 30.0 19.0* 14.6 21.0 26.1 45.5
J04-A	NAV-PAC INSTALLATION (SKYHAWK II ONLY)	0500083	1.1	26.2
J10-A	FLJATPLANE FUSELAGE STRUCTURAL MODIFICA- TIONS & FITTINGS (OPTION C)	0513003	1.1	95.0
J13-A	FLOATPLANE CONWDECK V BRACE (INSTALLED)	0560012	0.4	69.6
J15-A	FLOATPLANE AILERON-RUDDER INTERCONNECT FLOATPLANE ONLY (INSTALLED)			

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
J27-A	ITEMS J10-A & J13-A ARE ALSO APPROVED FOR (STOWED) LANDPLANE OPERATIONS MODEL 89A2000 FLOATS & 202 ATTACHMENTS NET CHANGE BETWEEN STANDARD LANDING GEAR (ITEM NO. 804-R, 810-S AND BRAKE & NOSE WHEEL STEERING SYSTEMS) AND FLOATPLANE KIT (ITEM NO. J30-A-1) IS APPROXIMATELY 155 LBS. AT 58.3 IN. THE CORRECT VALUES OF WT & ARM SHOULD BE DETERMINED FROM THE ACTUAL INSTALLATION. FLDPTPLANE EQUIPMENT KIT, COMPLETE, OPTION A	EDC-36335	0.4	95.0
J30-A-1	FLDPTPLANE EQUIPMENT KIT, COMPLETE, OPTION A A33-0 PROPELLER, FLOATPLANE, EXCHANGE FC1-C- PLACARD, FLOATPLANE OPERATION G31-A CABLES, CORROSION RESIST, EXCH. G13-A CORRS, AIRPLANE HOISTING, INTERNAL G07-A RINGS & HANDLE REFUELING G58-A STEP & HANDLE REFUELING J10-A FUSELAGE MODIFICATION (OPT C) J13-A COMB DECK V-BRACE (INSTALLED) J13-A INTERCONNECT SYSTEM, INSTALLED J13-A COMW ASSY, FLOATPLANE (NET CHG)	0500083 0550320 05000320 0500036 0500036 0541115 0513415 0500083 0513003 0560012 0552162 0500083	21.7*	52.3*
J30-A-2	FLDPTPLANE EQUIPMENT KIT, PARTIAL OPTION B CONSISTS OF ITEMS F01-C- PLACARD, FLOATPLANE OPERATICN G31-A CABLES, CORROSION RESIST, EXCH G13-A CORRS, AIRPLANE HOISTING, INTERNAL G07-A RINGS & HANDLE REFUELING G58-A STEP & HANDLE REFUELING J10-A COMB DECK V-BRACE (STOWED) J13-A INTERCONNECT SYSTEM (NET CHG)	0505053 0500036 0500036 0541115 0513415 0500083 0513003 0560012 0552162 0500083-17	0.0 0.0 10.0 1.0 1.7 1.6 1.1 1.4 0.4 20.4*	- - 77.0 49.0 17.8 45.5 28.2 69.6 62.5*
J30-A-3	FLDPTPLANE EQUIPMENT KIT B WITH NO INTERNAL CORRS- ION PROOFINGS) G07-A RINGS, AIRPLANE HOISTING G58-A STEP & HANDLE REFUELING J10-A FUSELAGE MODIFICATIONS J13-A COMB DECK V-BRACE (INSTALLED)	0541115 0513415 0500083 0513003	1.1 1.7 1.1 6.1	49.1 17.8 45.5 26.2

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
J15-A	INTERCONNECT SYSTEM (STOWED) COML ASSY, FLOATPLANE (NET CHG)	0560012 0552162	0.4 NEGL	95.0 --