

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.

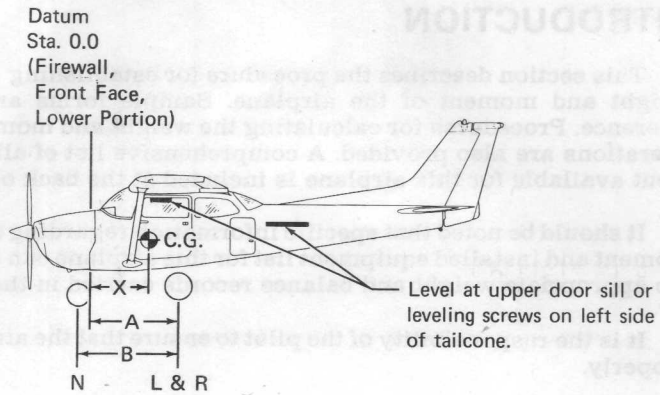
It is the responsibility of the pilot to ensure that the airplane is loaded properly.

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, 500 pounds nose, 1000 pounds each main).
 - b. Deflate the nose tire and/or lower or raise the nose strut to properly center the bubble in the level (see figure 6-1).
3. Weighing:
 - a. With the airplane level and brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.
4. Measuring:
 - a. Obtain measurement A by measuring horizontally (along the airplane center line) from a line stretched between the main wheel centers to a plumb bob dropped from the firewall.
 - b. Obtain measurement B by measuring horizontally and parallel to the airplane center line, from center of nose wheel axle, left side, to a plumb bob dropped from the line between the main wheel centers. Repeat on right side and average the measurements.
5. Using weights from item 3 and measurements from item 4, the airplane weight and C.G. can be determined.
6. Basic Empty Weight may be determined by completing figure 6-1.

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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)			
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	
Unusable Fuel:			
Std. Tanks (3 Gal at 6 Lbs/Gal)		46.0	
L.R. Tanks (4 Gal at 6 Lbs/Gal)		46.0	
Equipment Changes			
Airplane Basic Empty Weight			

Figure 6-1. Sample Airplane Weighing

SAMPLE WEIGHT AND BALANCE RECORD

(Continuous History of Changes in Structure or Equipment Affecting Weight and Balance)

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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.)	Moment /1000	
				Wt. (lb.)	Arm (In.)	Moment /1000	Wt. (lb.)	Arm (In.)	Moment /1000			
3-4-91			NEW EMPTY WT								1494 LBS	
			NEW EMPTY C.G								38.8"	
			NEW EMPTY MOMENT								58005.49	
			NEW USEFUL LOAD								806 LBS	
			<i>Revised 7-10-2009</i>									

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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 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.

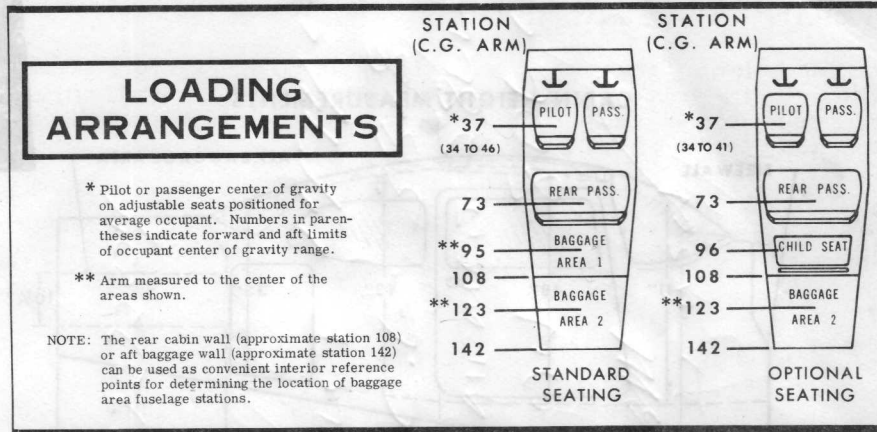


Figure 6-3. Loading Arrangements

CABIN FLOOR		CABIN FLOOR		CABIN FLOOR	
WIDTH	HEIGHT	WIDTH	HEIGHT	WIDTH	HEIGHT
31.5	14.5	31.5	14.5	31.5	14.5



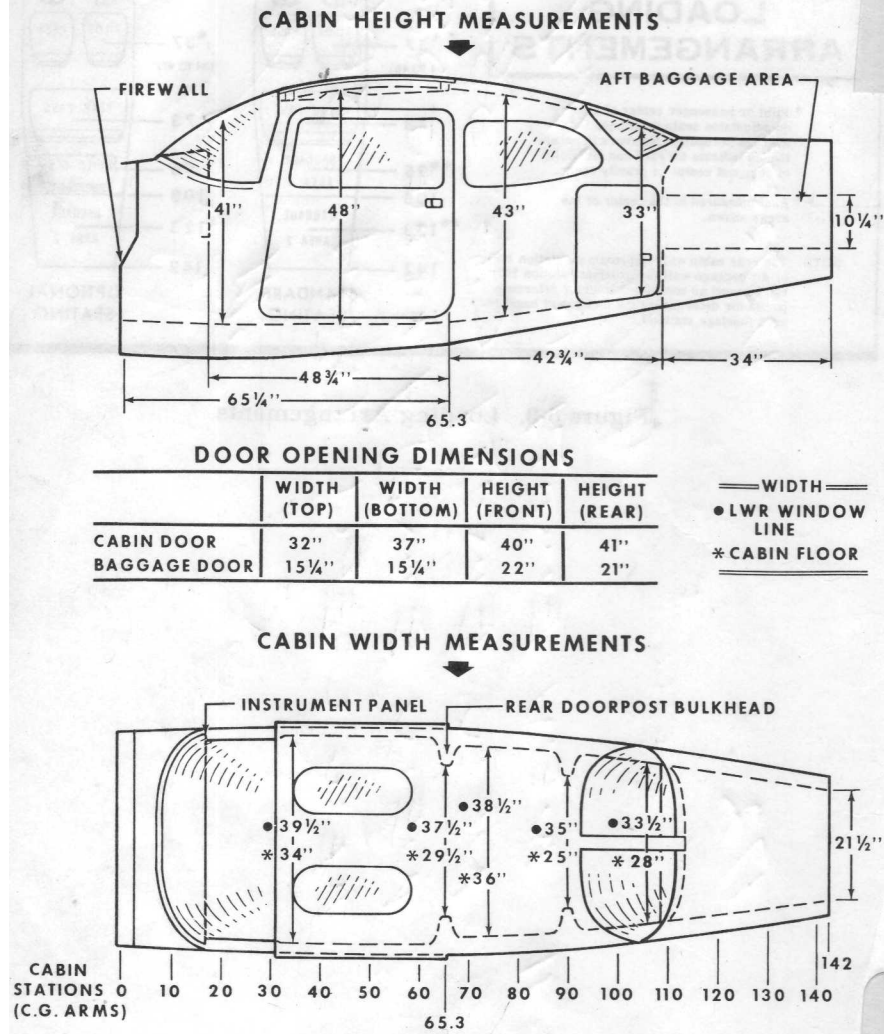
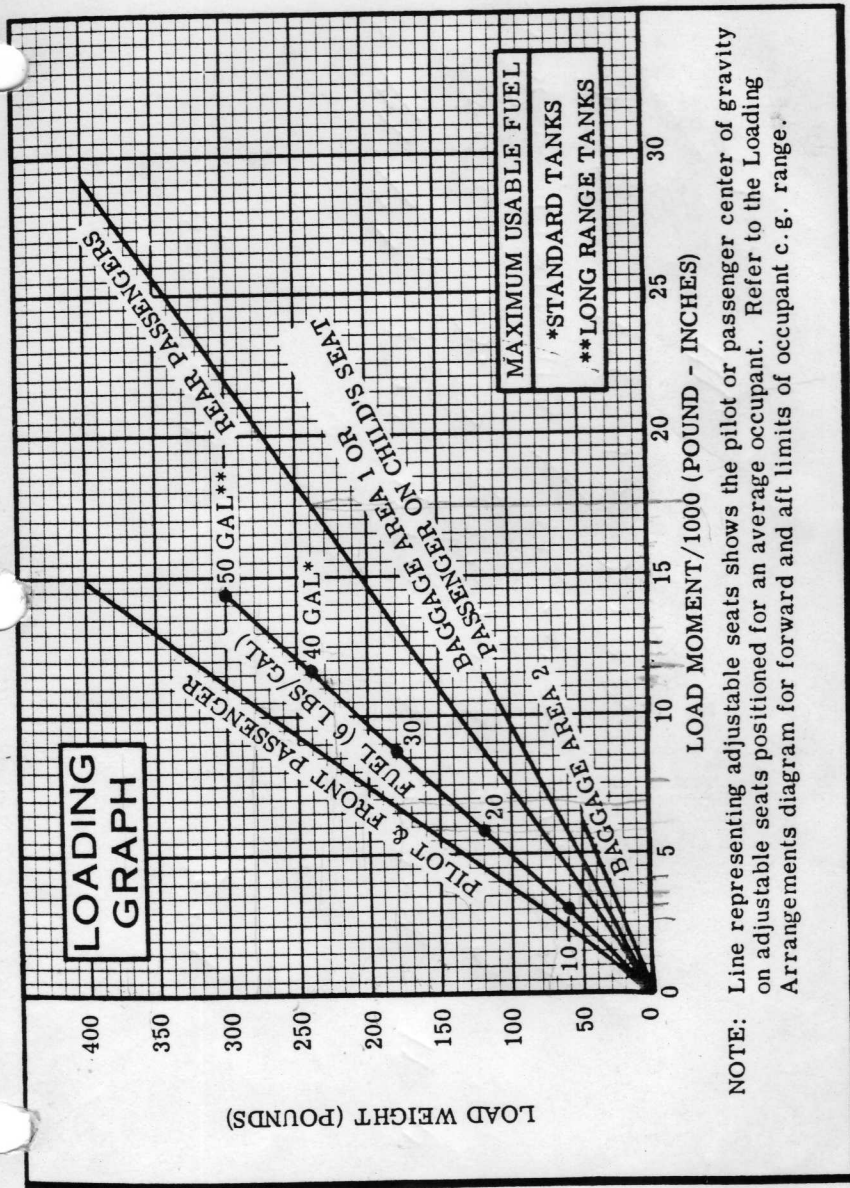


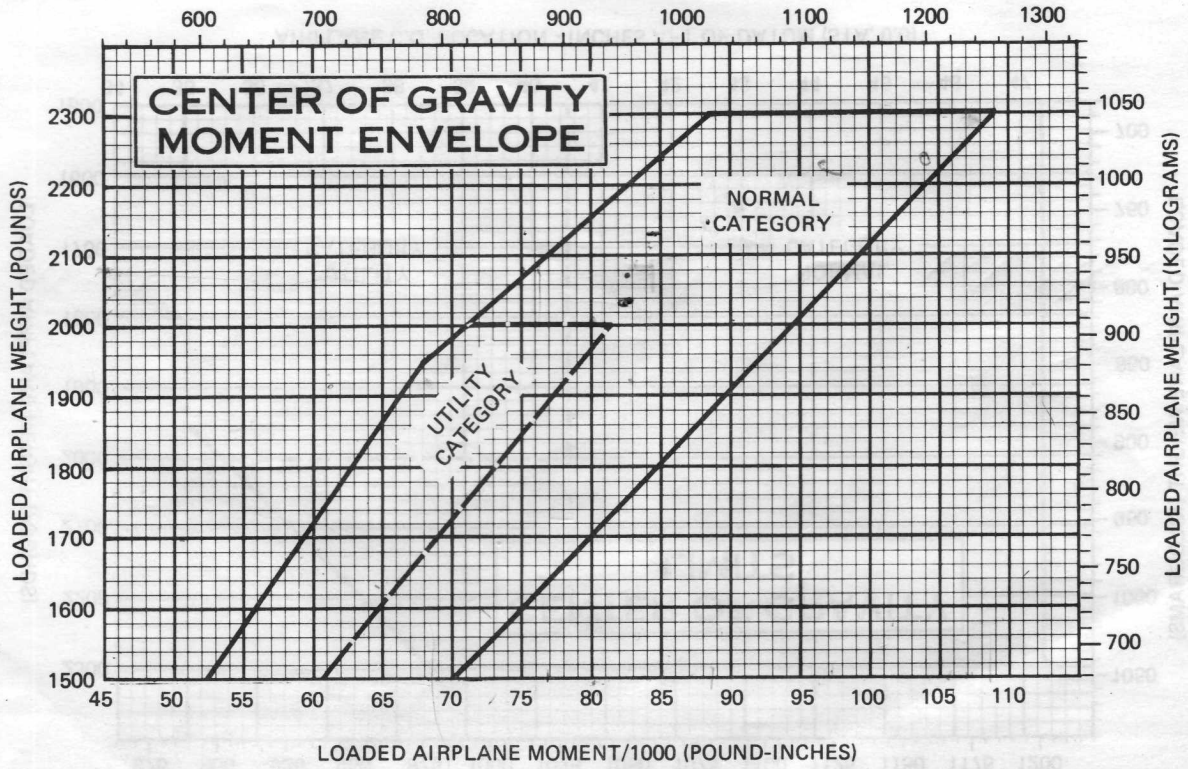
Figure 6-4. Internal Cabin Dimensions



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

LOADED AIRPLANE MOMENT/1000 (KILOGRAM-MILLIMETERS)



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Figure 6-7. Center of Gravity Moment Envelope

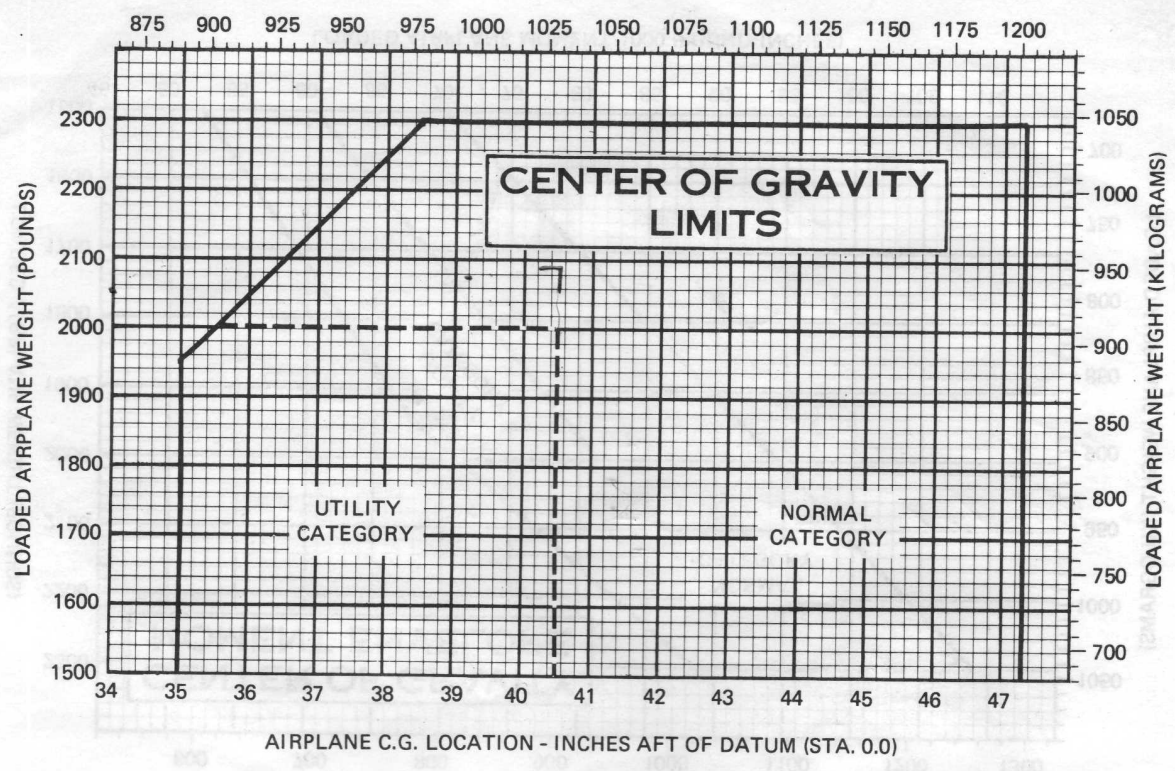


Figure 6-8. Center of Gravity Limits

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
A. POWERPLANT & ACCESSORIES				
A01-R	ENGINE, LYCOMING O-320-H2AD (INCLUDES ELECTRIC STARTER, VACUUM PUMP PAD, SPARK PLUGS & CARBURETOR	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*
	OIL COOLER	10599A	2.1	-2.5
A21-A	OIL FILTER INSTALLATION (SPIN-ON ELEMENT) NET CHANGE	0501060	2.5	-6.5
A33-R	PROPELLER ASSY. (FIXED PITCH-LANDPLANE) PROPELLER (MCCAULEY)	C161001-0310	35.9*	-38.5*
	3.5 INCH PROP SPACER ADAPTOR (MCCAULEY)	1C160/DTM7557	30.1	-39.1
	PROPELLER ASSY. (FIXED PITCH-FLOATPLANE) PROPELLER (MCCAULEY)	C4516	3.6	-35.4
A33-O	3.5 INCH PROP SPACER ADAPTOR (MCCAULEY)	C161001-0307	37.5*	-38.6*
	PROPELLER (MCCAULEY)	1A175/ETMB042	31.8	-39.1
	3.5 INCH PROP SPACER ADAPTOR (MCCAULEY)	C4516	3.6	-35.4
A41-R	SPINNER INSTALLATION, PROPELLER SPINNER DOME	0550320	2.0*	-41.4*
	FWD SPINNER BULKHEAD	0550235-8	1.2	-43.1
	AFT SPINNER BULKHEAD	0550321-4	0.3	-40.8
A61-S	VACUUM SYSTEM INSTALLATION DRY VACUUM PUMP	0550321-10	0.4	-37.3
	FILTER	0501054	3.0*	-2.7*
	VACUUM GAUGE	C431003-0101	1.8	-6.3
	RELIEF VALVE-REGULATOR	1201075-2	0.2	5.4
A70-A	PRIMER SYSTEM, ENGINE THREE CYLINDER	C668509-0101	0.1	16.7
A73-A	OIL QUICK DRAIN VALVE (NET CHANGE)	C482001-0401	0.4	5.0
		0501056-1	0.3	-12.0
		1701015	0.0	-
B. LANDING GEAR & ACCESSORIES				
B01-R	WHEEL, BRAKE & TIRE ASSY, 6.00X6 MAIN (2)	C163018-0201	41.7*	57.8*
	WHEEL ASSY, MCCAULEY	C163005-0101	7.6	58.2
	BRAKE ASSY., MCCAULEY (LEFT)	C163032-0115	1.9	54.5
	BRAKE ASSY., MCCAULEY (RIGHT)	C163032-0114	1.9	54.5
	TIRE, 4-PLY BLACKWALL (EACH)	C252003-0101	8.5	58.2
	TUBE (EACH)	C252023-0102	1.8	58.2
B04-R	WHEEL & TIRE ASSY., 5.00X5 NOSE	C163018-0101	8.7*	-6.8*
	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	C262003-0102	4.7	-6.8
	TUBE	C262023-0101	1.2	-6.8
	FAIRING INSTALLATION, WHEEL (SET OF 3)	0541225-1	17.8*	47.1*
	NOSE WHEEL FAIRING MAIN WHEEL FAIRING (EACH)		4.0 5.7	-4.9 60.3
C. ELECTRICAL SYSTEMS				
C01-R	BATTERY, 24 VOLT, STANDARD DUTY	C614001-0105	22.8	0.0
C01-O	BATTERY, 24 VOLT, HEAVY DUTY	C614001-0106	24.8	0.0
C04-R	ALTERNATOR CONTROL UNIT, 28 VOLT WITH HIGH LOW VOLTAGE SENSING	C611004-0101	0.4	3.5
C07-A	GROUND SERVICE PLUG RECEPTACLE	0501064	2.7	-2.6
C16-D	HEATING SYSTEM, PITOT (NET CHANGE)	0422355	0.6	24.4
C22-A	LIGHTS, INSTRUMENT POST (REQUIRES INSTALL- ATION OF E34-G DELUXE GLARESHIELD)	0513094	0.5	16.5
C25-A	LIGHT, MAP (CONTROL WHEEL MTD, RQS E89-G)	0570087	0.2	21.5
C28-S	LIGHT, MAP & INSTRUMENT PANEL FLOOD (DOORPOST MOUNTED)	0700149	0.3	32.0
C31-A	LIGHTS, COURTESY ENTRANCE (SET OF 2)	0521101	0.5	61.0
C40-A	DETECTORS, NAVIGATION LIGHT (SET OF 2)	0701013-1, -2	NEGL	-
C43-A	LIGHT INSTALLATION, OMNIFLASH BEACON BEACON LIGHT ON FIN TIP	0506003	2.1*	184.2*
C46-A	FLASHER POWER SUPPLY	C621001-0102	0.4	243.0
	RESISTOR (MEMCCR)	C594502-0102	0.8	205.8
	OR95-6	0501027	0.3	208.1
	LIGHT INSTALLATION, WING TIP STROBE	0501027	3.4*	43.3*
C49-S	FLASHER POWER SUPPLY (SET OF 2 IN WING)	C622008-0102	2.3	47.0
	STROBE LIGHT, WING TIP (SET OF 2)	C622006-0101	0.2	43.5
C49-O	LIGHT INSTALLATION, COWL MOUNTED LANDING LAMP, 250 WATT (G.E.)	0570312	1.9*	-27.1*
	LIGHTS, DUAL COWL MOUNTED LANDING LAMP, 250 WATT (G.E.) (EACH)	4553	0.8	-29.0
		0552141	3.2*	-23.0*
		4591	0.5	-29.0
D. INSTRUMENTS				
D01-R	INDICATOR, AIRSPEED	C661064-0102	0.6	16.2
D01-O	INDICATOR, TRUE AIRSPEED	0513279	0.7	16.3
D04-A	STATIC AIR ALTERNATE SOURCE	0501017	0.2	15.5

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
D07-R	ALTIMETER (SENSITIVE)	C661071-0101	1.0	14.0
D07-0-1	ALTIMETER, SENSITIVE (50 FT. MARKINGS) (FEET AND MILLIBARS)	C661071-0102	1.0	14.0
D07-0-2	ALTIMETER (SENSITIVE) 20FT. MARKINGS (FEET AND MILLIBARS)	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 (RE- QUIRES RELOCATION OF REGULAR ALTIMETER)	0501049	3.0	14.0
D16-A-3	ALTITUDE ENCODER (BLIND, DOES NOT REQUIRE INSTRUMENT PANEL MOUNTING)	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	0.4	14.0
D38-R	INSTRUMENT CLUSTER, LH & RH FUEL QUANTITY	C669511-0102	0.4	16.5
D41-R	INSTRUMENT CLUSTER, OIL PRESS, OIL TEMP.	C669512-0102	0.5	16.5
D49-A	INDICATOR, ECONOMY MIXTURE (EGT)	0501043-2	0.6	7.8
D64-S	GYROS, ATTITUDE & DIRECTIONAL INDICATORS (NON-NAV-O-MATIC)	0501054-1	6.3*	13.6*
	DIRECTIONAL INDICATOR	C661075-0104	2.7	14.7
	ATTITUDE INDICATOR	C661075-0101	2.5	14.3
D64-D	GYRO INSTALLATION FOR 300 NAV-O-MATIC	0501054-2	6.9*	13.4*
	DIRECTIONAL INDICATOR (ARC)	40760-0101	3.3	14.3
	ATTITUDE INDICATOR	C661075-0101	2.5	14.3
D67-A	RECORDER INSTALLATION, FLIGHT HOUR	0501052	0.5	6.3
D82-S	GAGE, OUTSIDE AIR TEMPERATURE	C668507-0101	0.1	23.6
D85-R	TACHOMETER INSTALLATION, ENGINE	0506004	1.0*	12.1*
	RECORDING TACH INDICATOR	C668020-0118	0.7	16.0
	FLEXIBLE TACH SHAFT	S-1605-10	0.3	3.0
D88-S-1	INDICATOR, TURN COORDINATOR, 28 VOLT ONLY	C661003-0505	1.3	15.8
D88-S-2	INDICATOR, TURN COORDINATOR, 10-30 VOLT	C661003-0506	1.3	15.8
D88-D	INDICATOR, TURN COORDINATOR (FOR USE WITH NAV-O-MATIC 200A AND 300A)	42320-0028	1.3	14.6
D91-S	INDICATOR, VERTICAL SPEED	C661080-0101	1.0	14.9
E. CABIN ACCOMMODATIONS				
ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
E02-S	ARM RESTS - 2ND ROW (SET OF 2)	0715039	1.5	72.5
E05-R	SEAT, ADJUSTABLE FORE & AFT - PILOT	0514141	12.6	44.0
E05-D	SEAT, INFINITE ADJUSTABLE - PILOT	0514142	23.0	41.5
E07-S	SEAT, ADJUSTABLE FORE & AFT- CO-PILOT	0514141	12.6	44.0
E07-D	SEAT, INFINITE ADJUSTABLE - CO-PILOT	0514142	23.0	41.5
E09-S	SEAT, REAR (ONE PIECE BACK CUSHION)	0514144	22.0	79.5
E09-D	SEAT, REAR (TWO PIECE BACK CUSHION)	0514143	23.0	79.5
E15-R	PILOT LAP BELT ASSY	S-2275-103	1.0	37.0
E15-S	SHOULDER HARNESS ASSY, PILOT	S-2275-231	0.6	37.0
E19-D	SHOULDER HARNESS INERTIA REEL INSTALLATION PILOT & CO-PILOT - REPLACES STD BELTS AND HARNESS (NET CHANGE)	0501046-1	2.0	82.0
E23-S	BELT & SHOULDER ASSY - CO-PILOT	S-2275-3	1.6	37.0
E27-S	BELT ASSY, 2ND ROW (SET OF 2)	S-1746-39	2.0	70.0
E27-D	SEAT BELT & SHOULDER HARNESS ASSY FOR 2ND ROW SEATING	S-2275-8	3.2	70.0
E34-D	DELUXE GLARESHIELD (NET CHANGE)	0515034	1.0	21.0
E35-A-1	LEATHER SEAT COVERING (NET CHANGE)	CES-1151	2.0	62.0
E35-A-2	LEATHER & VINYL OR FABRIC COVER-NET CHANGE	CES-1151	1.5	62.0
E37-D	WINDOW, HINGED, RH DOOR (NET CHANGE)	0501075	2.3	47.0
E39-A	WINDOWS, OVERHEAD CABIN TOP (NET CHANGE)	0511800	0.9	47.9
E43-A	VENTILATION SYSTEM, REAR SEAT (NOT COM- PATABLE WITH E88-A-1 OR E88-A-2)	0700322	1.7	60.0
E49-A	BEVERAGE CUP HOLDER	0501023	0.1	15.0
E50-A	HEADREST, 1ST ROW (WT EACH)	1215073-11	0.7	47.0
E51-A	HEADREST, 2ND ROW (WT EACH)	1215073-11	0.7	86.0
E55-S	SUN VISORS (SET OF 2)	0500040	0.9	32.8
E57-A	WINDOWS, TINTED FRONT, SIDE & REAR (NET CHANGE)	0500267	0.0	-
E65-S	BAGGAGE NET	2015009	0.5	95.0
E71-A	RINGS, CARGO TIE-DOWN (STOWED)(USE ARM AS INSTALLED WITH CARGO)	0500042	1.0	-
E85-A	CONTROLS INSTALLATION, DUAL	0513335	4.9	12.4
E87-A	RUDDER TRIM SYSTEM	0513290	1.9	9.4
E88-A-1	CABIN AIR CONDITIONING SYSTEM-CHILLED AIR COMPRESSOR ASSEMBLY EVAPORATOR (LOCATED ABOVE AFT BAGGAGE CONDENSOR (LOCATED UNDER SIDE FUSELAGE)	0501066	63.5*	43.2*
E88-A-2	CABIN AIR CIRCULATING FAN	0501072	20.2	-29.0
E89-D	ALL PURPOSE CONTROL WHEEL, NET CHANGE		9.1	123.5
E93-R	HEATING SYSTEM, CABIN & CARBURETOR AIR (INCLUDES EXHAUST SYSTEM)	0550333 0506004	5.3 10.0 NEGL 17.5	96.2 100.0 -- -21.0

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F. PLACARDS, WARNINGS & MANUALS					
F01-R	PLACARD, OPERATIONAL LIMITATIONS-DAY VFR	0505087	NEGL	- -	
F01-O-1	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR	0505087	NEGL	- -	
F01-O-2	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR IFR	0505087	NEGL	- -	
F01-O-3	PLACARD, OPERATIONAL LIMITATIONS-DAY VFR FLOATPLANE	0505087	NEGL	- -	
F01-O-4	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR FLOATPLANE	0505087	NEGL	- -	
F01-O-5	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR IFR FLOATPLANE	0505087	NEGL	- -	
NOTE THE ABOVE PLACARDS ARE INSTALLED ACCORDING TO AIRCRAFT EQUIPMENT					
F04-R	INDICATOR, AUDIBLE PNEUMATIC STALL WARNING	0523112	0.2	28.5	
F13-S	LOW VOLTAGE WARNING LIGHT, ALTERNATOR		NEGL	- -	
F16-R	PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL	D1138-13PH	0.5	- -	
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	STABILIZER ABRASION BOOTS	0500041	2.7	206.0	
G22-S	TOW BAR (STOWED)	0501019	1.6	95.0	
G25-S	PAINT, OVERALL EXTERIOR (MODIFIED POLY- URETHANE)	0504037	12.4*	90.9*	
			OVERALL BASE WHITE	11.6	90.5
			WASH PRIME	0.4	90.5
			COLOR STRIPE	0.5	102.2
G25-A	OPTIONAL OVERALL PRIME COATING	0504037	3.3	90.5	
G31-A	CABLES, CORROSION RESISTANT CONTROL (NET CHANGE)	0500036	0.0	- -	
G55-A	FIRE EXTINGUISHER INSTALLATION	0501011	3.0*	43.8*	
			FIRE EXTINGUISHER	2.6	44.0
			FIRE EXTINGUISHER MOUNTING BRACKET	0.3	42.2
G58-A	STEPS & HANDLES, REFUELING ASSISTING	0513415	1.7	16.3	

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
G67-A	KUDDER PEDAL EXTENSIONS, REMOVABLE - SET OF 2 (STOWABLE - INSTALLED ARM SHOWN)	0701048	2.3	8.0
G88-A-1	WINTERIZATION KIT INSTALLATION, ENGINE BREATHER TUBE INSULATION TWO COWL INLET AIR COVERS (INSTALLED)	0501008 0552011 0552132-1, -2 0552132-1, -2 0552011	0.8* 0.4 0.3 0.3 1.0*	-22.7* -13.8 -32.0 95.0 -7.2*
G88-A-2	WINTERIZATION KIT INSTL., FLCPATPLANE ONLY BREATHER TUBE INSULATION COWL OUTLET COVER (1) (INSTALLED)	0552132-1, -2 0552011	0.4 0.6 0.6 9.5	-12.0 -4.0 95.0 48.0
G92-0	FUEL SYSTEM, EXTENDED RANGE WING TANKS (NET CHANGE)	0501055	9.5	48.0
H. AVIONICS & AUTOPILOTS				
H01-A	CESSNA 300 ADF INSTALLATION CONSISTS OF RECEIVER WITH BFO (R-546E) INDICATOR (IN-346A) SENSE ANTENNA INSTALLATION LOOP ANTENNA INSTALLATION RECEIVER MOUNT, WIRES AND MISC ITEMS	3910159-2 41240-0101 40980-1001 0570400-632 3960104-1	7.0* 2.3 0.9 0.2 1.4	21.0* 12.1 14.0 108.6 39.3
H04-A	DME INSTALLATION, NARCO RECEIVER (DME-190) MOUNTING BOX ANTENNA,	3910166-1 3312-400 -	7.5* 4.9 0.6 0.2	18.5* 11.3 11.3 86.1
H05-A	FOSTER R-NAV 511 RECEIVER & MOUNT (511)	3910203	3.4*	11.8*
H07-A-1	CESSNA 400 GLIDESCOPE (INCLUDES VOR/ILS INDICATOR--NET CHANGE FOR VCR/LCC RECEIVER (R-4438) ANTENNA (LOCATED--UPPER WINDSHIELD) VOR/ILS INDICATOR (IN-386A)(INDICATOR WT NET CHANGE, ACTUAL WT IS 1.7 LBS)	3910157 42100-0000 1200098-2 46860-2000	4.4* 2.1 0.2 0.1	81.1* 117.0 30.0 15.5
H07-A-2	CESSNA 400 GLIDESCOPE (INCLUDES AUTOCOURSE VOR/ILS INDICATOR, WT NET CHANGE FOR VOR/LCC INDICATOR) RECEIVER (R-4438) ANTENNA (LOCATED--UPPER WINDSHIELD) VOR/ILS INDICATOR (IN-386AC)(INDICATOR	3910157 42100-0000 1200098-2 46860-2200	4.6* 2.1 0.2 0.3	78.2* 117.3 30.0 14.7

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H11-A-1	WT NET CHANGE, ACTUAL WT IS 1.9 LBS)			
	PANTRONICS PT-10A HF TRANSCEIVER 2ND UNIT	3910156-9	20.2*	88.8*
	TRANSCEIVER (PANEL MOUNTED)	C582103-0102	4.2	10.4
	ANTENNA LOAD BCX	C589502-0201	4.2	112.5
	HF POWER SUPPLY (REMOTE)	C582103-0301	8.5	114.4
H11-A-2	POWER & SIGNAL CABLES		2.5	41.0
	ANTENNA INSTALLATION, 351 IN. LONG	3960117	0.3	144.4
	SUNAIR ASB-125 HF TRANSCEIVER, 2ND UNIT	3910158-1	22.0*	82.8*
	ANTENNA LOAD BCX	99816	4.9	112.0
	POWER SUPPLY (REMOTE)	99683	8.9	114.0
H13-A	TRANSCEIVER (PANEL MOUNTED)	99681	4.6	10.4
	ANTENNA INSTALLATION, 351 IN. LONG	3960117	0.3	144.4
	MISC SWITCHES, WIRES AND ETC.	--	3.7	57.5
	CESSNA 400 MARKER BEACON	3910164-1	2.3*	34.5*
	RECEIVER (R-402A)	42410-5128	0.7	11.8
H16-A-1	ANTENNA, L SHAPED ROD	0770681-1	0.7	136.0
	CESSNA 300 TRANSPONDER	3910127-17	4.0*	25.8*
	TRANSCEIVER (RT-359A)	41420-1128	2.7	11.1
H16-A-2	ANTENNA	--	0.3	126.0
	CESSNA 400 TRANSPONDER (USED FOR EXPORT)	3910128-21	4.2*	25.1*
	TRANSCEIVER (RT-459A)	41470-1128	2.9	11.1
H22-A-1	ANTENNA	--	0.9	126.0
	CESSNA 300 NAV/COM. 720 CH, FIRST UNIT	3910183-4	15.3*	30.5*
	WITH VOR/LOC			
	RECEIVER-TRANSCEIVER (RT-385A)	46660-1100	5.5	11.5
	VOR/LOC INDICATOR (IN-385A)	46860-1000	1.6	14.5
H22-A-2	H34-A BASIC AVIONICS KIT	3910186	7.0	52.6
	MOUNT, WIRE & MISC HARDWARE		1.2	10.0
	CESSNA 300 NAV/COM, 720 CH, FIRST UNIT	3910183	15.5*	30.3*
	WITH VOR/LOC ALTOCOURSE INDICATOR			
	RECEIVER-TRANSCEIVER (RT-385A)	46660-1100	5.5	11.5
H25-A-1	VOR/LOC INDICATOR (IN-385AC) (AUTOMATIC RADIAL CENTERING)	46860-1200	1.8	14.5
	H34-A BASIC AVIONICS KIT	3910186	7.0	52.6
	MOUNT, WIRING & MISC HARDWARE		1.2	10.0
	CESSNA 300 NAV/COM 720 CH COM 2ND UNIT	3910183-6	9.3*	14.6*
	WITH VOR/LOC			
H25-A-2	RECEIVER-TRANSCEIVER (RT-385A)	46660-1100	5.5	11.5
	VOR/LOC INDICATOR (IN-385A)	46860-1000	1.6	14.5
	H37-A ANTENNA COUPLER KIT	3910185	1.0	37.5
	MOUNT, WIRING & MISC ITEMS	3960111-1	1.2	10.0
	CESSNA 300 NAV/COM 720 CH COM 2ND UNIT	3910183	9.5*	14.6*

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	WITH VCR/LOC ALTICOURSE INDICATOR			
	RECEIVER-TRANSCIVER (RT-385A)	46660-1100	5.5	11.5
	VOR/LCC INDICATOR (IN-385AC)(AUTOMATIC	46860-1200	1.8	14.5
	RADIAL CENTERING)			
H28-A-1	H37-A ANTENNA COUPLER KIT	3910185	1.0	37.5
	MOUNT, WIRING & MISC ITEMS	3960111-1	1.2	10.0
	EMERGENCY LOCATOR TRANSMITTER	0470419-3	3.5*	116.5*
	TRANSMITTER (D & M DMELT-6-1)	C589511-0117	3.3	116.4
H28-A-2	ANTENNA	C589511-0109	0.1	122.0
	EMERGENCY LOCATOR TRANSMITTER (USED IN	0470419-4	3.5*	116.5*
	CANADA)			
	TRANSMITTER (D & M DMELT-6-1C)	C589511-0113	3.3	116.4
H31-A-1	ANTENNA	C589511-0109	0.1	122.0
	NAV-O-MATIC 200A	3910162-1	9.2*	51.0*
	CONTROLLER-AMPLIFIER	3930144-6	1.6	13.1
	TURN COORDINATOR (NET CHNG) (G-300A)	42320-0014	0.0	-
	WING INSTALLATION (SERVO IS 3.9 LBS AT	0522632-1	6.1	68.1
	68.9 INCHES)(PA-495)			
H31-A-2	NAV-O-MATIC 300A (AF395)	3910163-1	10.4*	46.2*
	CONTROLLER-AMPLIFIER & MOUNT	CA-395A	1.8	13.1
	D64-D GYRO INSTALLATION NET CHANGE	0501054	0.6	11.3
	D88-D TURN COORDINATOR NET CHANGE	42320-0028	0.0	-
	WING INSTALLATION (SERVO IS 3.9 LBS AT	0522632-1	6.1	68.1
	68.9 INCHES)(PA-495)			
	RELAY INSTALLATION	3940151-1	0.4	4.0
H34-A	BASIC AVIONICS KIT--AVAILABLE WITH 1ST	3910186-2	7.0*	52.6*
	UNIT NAV/COM ONLY			
	RADIO COOLING INSTL.	3930206	1.1	10.2
	NOISE FILTER-AUDIO (ON ALTERNATOR)	3940148-1	0.1	-26.1
	COM ANTENNA CABLE	3950122-3	0.4	27.8
	OMNI ANTENNA CABLE	3950122-4	0.6	116.0
	OMNI ANTENNA INSTALLATION	3960102-10	0.8	220.8
	LH VHF COM ANTENNA	3960113-1	0.4	62.4
	CABIN SPEAKER INSTL.	3970123-5	1.2	37.9
	MIKE INSTL--HANDHELD	3970124-1	0.3	17.2
	HEADPHONE INSTALLATION	3970125-4	0.2	14.2
	AUDIO CONTROL PANEL INSTL	3970131-1	1.9	12.5
H37-A	ANTENNA & COUPLER KIT	3910185-2	1.0	37.5
H55-A	MIKE-HEADSET COMBO. INSTL (HEADSET STOWED)	3970112-1	0.3	13.0
	(STOWED ARM SHCN)(REQUIRES E89-0)			
H56-A	PADDED HEADPHONES & MICROPHONE, REQUIRES	C596531-0101	1.1	--
	E89-0 ALL PURPOSE CCNTRCL WHEEL			

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SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
	J. SPECIAL CPTICN PACKAGES			
J01-A	SKYHAWK II EQUIPMENT CONSISTS OF ITEMS	0500510	25.5*	46.0*
	D01-0 TRUE AIRSPEED IND. (NET CHANGE)	0513279	0.1	16.7
	C16-0 HEATED PITOT SYSTEM	0422355	0.6	24.4
	E85-A DUAL CCNTRCLS	0513335	4.9	12.4
	C40-A NAV LIGHT DETECTORS	0701013	NEGL	-
	C31-A COURTESY LIGHTS	0521101	0.5	61.0
	C43-A FLASHING BEACON LIGHT	0506003	2.1	184.2
	D04-A STATIC ALTERNATE AIR SOURCE	0501017	0.2	15.5
	H28-A EMERGENCY LOCATOR XMTR (ELT)	470419	1.8	116.6
	G25-0 SKYHAWK II PAINT (NET CHANGE)	0504035	0.0	-
	H22-A-1 NAV/CUM 385A VCR/LCC	3910183-4	15.3	30.5
J04-A	NAV-PAC INSTALLATION (SKYHAWK II ONLY)	3910161	20.3*	19.1*
	H25-A 385A NAV/CUM VCR/LCC	-	9.3	14.6
	H01-A 300 ADF (546E)	-	7.0	21.0
	H16-A-1 300 TRANSPONDER (RT-359)	-	4.0	26.1
J10-A	FLOATPLANE FUSELAGE STRUCTURAL MODIFICATIONS & FITTINGS (CPTICN C)	0500083	6.1	45.5
J13-A	FLOATPLANE CGWLDECK V BRACE (INSTALLED) (STOWED)	0513003	1.1	26.2
			1.1	95.0
J15-A	FLOATPLANE AILERON-RUDDER INTERCONNECT (INSTALLED) (STOWED)	0560012	0.4	69.6
			0.4	95.0
	ITEMS J10-A & J13-A ARE ALSO APPROVED FOR LANDPLANE OPERATIONS.			
J27-A	MODEL 89A2000 FLOATS & 502 ATTACHMENTS NET CHANGE BETWEEN STANDARD LANDING GEAR (ITEM NOS. B01-R, B04-R, B10-S AND BRAKE & NOSE WHEEL STEERING SYSTEMS) AND FLOATPLANE KIT (ITEM NO. J30-A-1) IS APPROXIMATELY 155 LBS. AT 58.3 IN. THE CORRECT VALUES OF WT & ARM CHANGE FOR WT & BALANCE CALCULATIONS SHOULD BE DETERMINED FROM THE ACTUAL INSTALLATION.	ED0-36335	-	-
J30-A-1	FLOATPLANE EQUIPMENT KIT WITH PROP CHANGE AND CORROSION PROOFING CONSISTS OF--	0500083	21.7*	52.3*
	A33-0 PROPELLER, FLOATPLANE, EXCHANGE	0550320	1.3	-41.4
	F01-0 PLACARD, FLOATPLANE OPERATION	0505053	0.0	-
	G31-A CABLES, CORROSION RESIST, EXCH.	0500036	0.0	-

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
J30-A-2	G13-A CORROSION PROOFING, INTERNAL RINGS, AIRPLANE HOISTING	0500036	10.0	77.0
	G07-A STEP & HANDLE, REFUELING	0541115	1.1	49.1
	G58-A FUSELAGE MODIFICATION (OPT C)	0513415	1.7	17.8
	J10-A COWL DECK V-BRACE (INSTALLED)	0500083	6.1	45.5
	J13-A INTERCONNECT SYSTEM, INSTALLED	0513003	1.1	26.2
	J15-A COWL ASSY, FLOATPLANE (NET CHG)	0560012	0.4	69.6
	FLOATPLANE PLACARD	0552162	NEGL	-
	FLOATPLANE PLACARD	0505085	NEGL	-
	EQUIPMENT KIT WITH CORROSION PROOFING, V-BRACE STOWED AND NO PROP CHANGE	0500083	20.4*	62.5*
	F01-D- PLACARD, FLOATPLANE OPERATION	0505053	0.0	-
G31-A CABLES, CORROSION RESIST, EXCH	0500036	0.0	-	
J30-A-3	G13-A CORROSION PROOFING, INTERNAL RINGS, AIRPLANE HOISTING	0500036	10.0	77.0
	G07-A STEP & HANDLE, REFUELING	0541115	1.1	49.1
	G58-A FUSELAGE MODIFICATION	0513415	1.7	17.8
	J10-A COWL DECK V-BRACE (STOWED)	0500083	6.1	45.5
	J13-A INTERCONNECT SYSTEM (STOWED)	0513003	1.1	95.0
	J15-A COWL ASSY, FLOATPLANE (NET CHG)	0560012	0.4	95.0
	FLOATPLANE PLACARD	0552162	NEGL	-
	FLOATPLANE PLACARD	0505085	NEGL	-
	EQUIPMENT KIT WITH PROP CHANGE & NO CORROSION PROOFING CONSISTS OF--	0500083	11.7*	31.2*
	A33-0 PROPELLER, FLOATPLANE, EXCHANGE	0550320	1.3	-41.4
J30-A-4	F01-D- PLACARD, FLOATPLANE OPERATIONS	0505053	0.0	-
	G07-A RINGS, AIRPLANE HOISTING	0541115	1.1	49.1
	G58-A STEP & HANDLE, REFUELING	0513415	1.7	17.8
	J10-A FUSELAGE MODIFICATIONS	0500044	6.1	45.5
	J13-A COWL DECK V-BRACE (INSTALLED)	0513003	1.1	26.2
	J15-A INTERCONNECT SYSTEM (INSTALLED)	0560012	0.4	69.6
	COWL ASSY, FLOATPLANE (NET CHG)	0552162	NEGL	-
	FLOATPLANE PLACARD	0505085	NEGL	-
	EQUIPMENT KIT WITH NO PROP CHANGE OR CORROSION PROOFING (USED PRIMARILY IN CANADA)	0500083	10.4*	41.2*
	G07-A RINGS, AIRPLANE HOISTING	0541115	1.1	49.1
J30-A-4	G58-A STEP & HANDLE, REFUELING	0513415	1.7	17.8
	J10-A FUSELAGE MODIFICATIONS	0500083	6.1	45.5
	J13-A COWL DECK V-BRACE (INSTALLED)	0513003	1.1	26.2
	J15-A INTERCONNECT SYSTEM (STOWED)	0560012	0.4	95.0
	COWL ASSY, FLOATPLANE (NET CHG)	0552162	NEGL	-
FLOATPLANE PLACARD	0505085	NEGL	-	

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