

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.

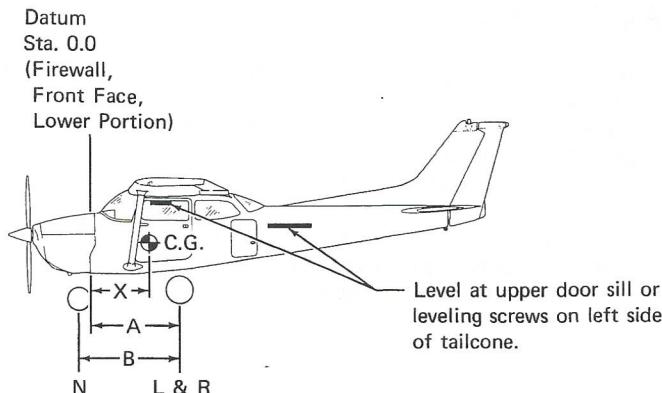
It should be noted that specific information regarding the weight, arm, moment and installed equipment list for this airplane can only be found in the appropriate weight and balance records carried in the airplane.

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.

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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

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

Item	Weight (Lbs.)	Moment/1000 X C.G. Arm (In.) = (Lbs.-In.)
Airplane Weight (From Item 5, page 6-6)		
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

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(5) Using weights from (3) and measurements from (4) the 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.

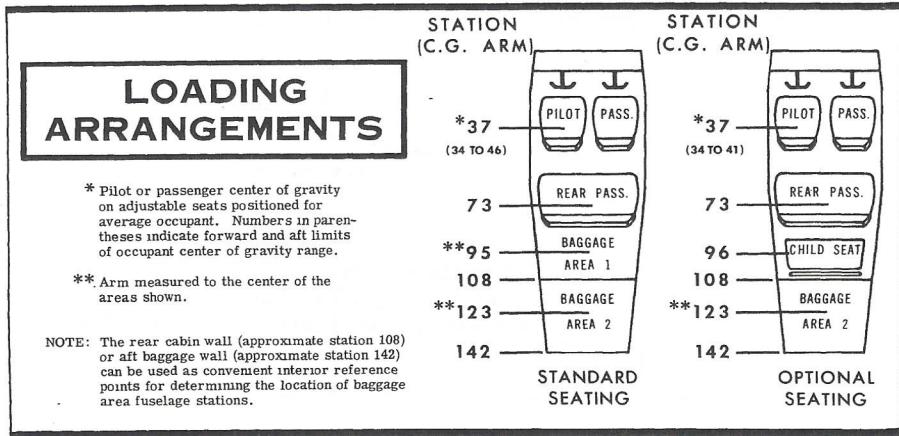
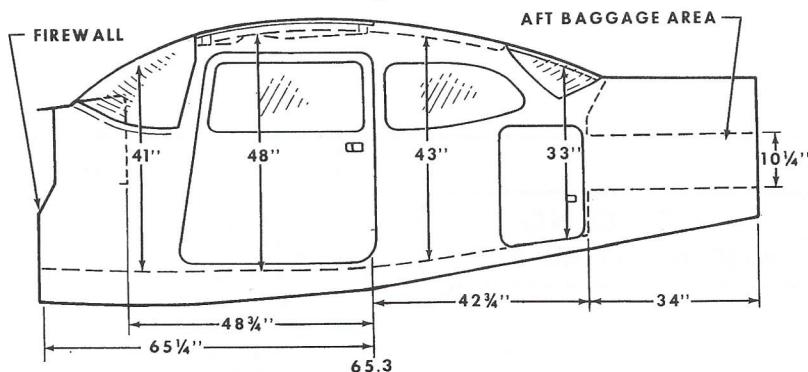


Figure 6-3. Loading Arrangements

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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

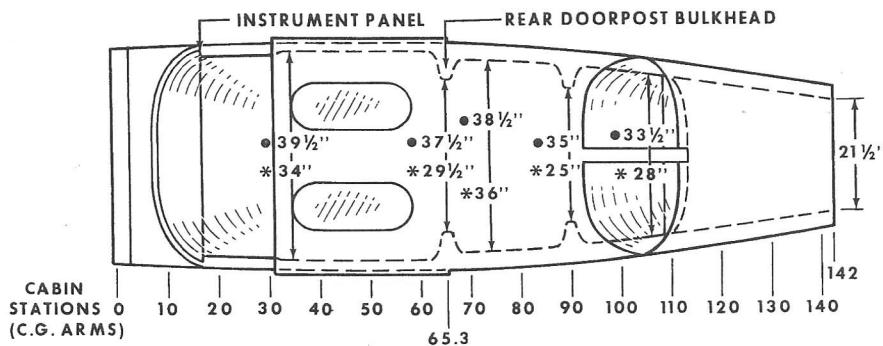


Figure 6-4. Internal Cabin Dimensions

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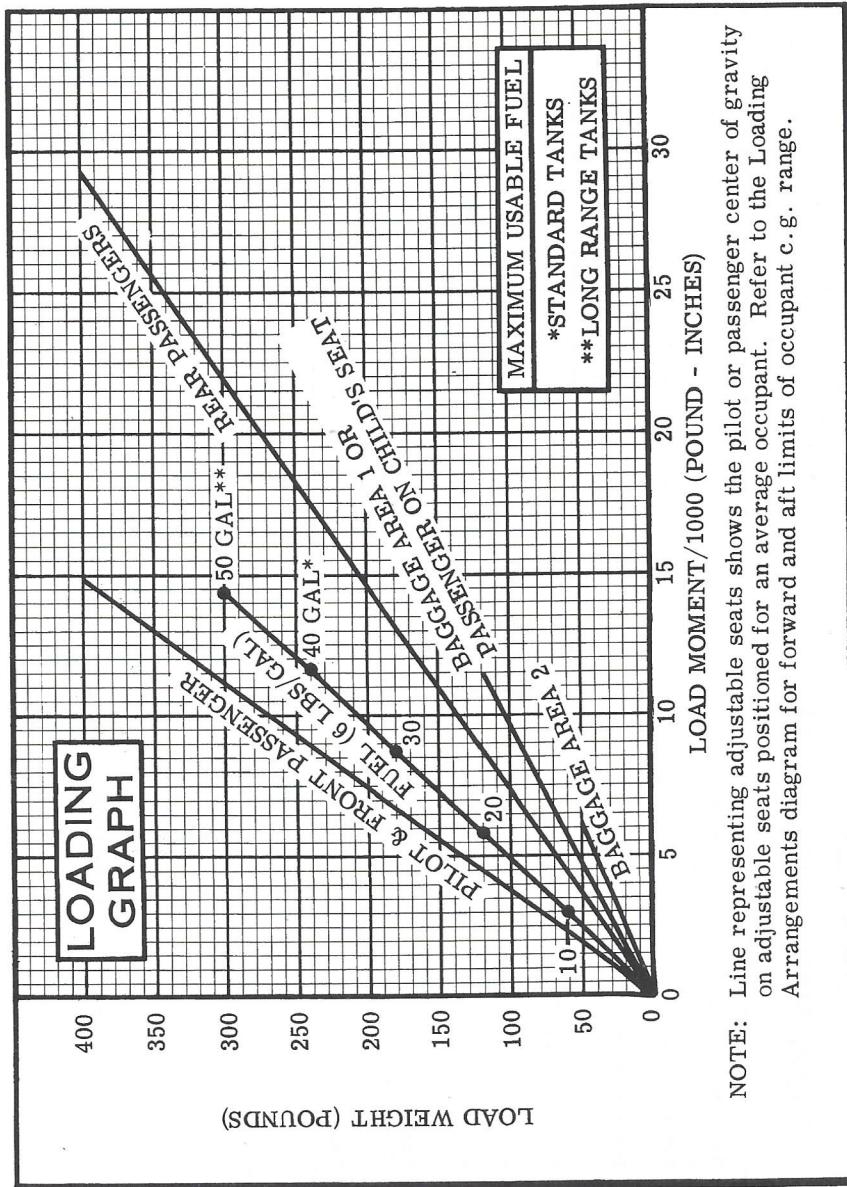
SAMPLE LOADING PROBLEM		SAMPLE AIRPLANE		YOUR AIRPLANE	
		Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)
1.	Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)	1454	57.6		
2.	Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (40 Gal. Maximum)	240	11.5		
	Long Range Tanks (50 Gal. Maximum)				
3.	Pilot and Front Passenger (Station 34 to 46)		340	12.6	
4.	Rear Passengers		170	12.4	
5.	* Baggage Area 1 or Passenger on Child's Seat (Station 82 to 108) 120 Lbs. Max.		96	9.1	
6.	* Baggage Area 2 (Station 108 to 142) 50 Lbs. Max.				
7.	TOTAL WEIGHT AND MOMENT	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.				
					NOTE

* 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

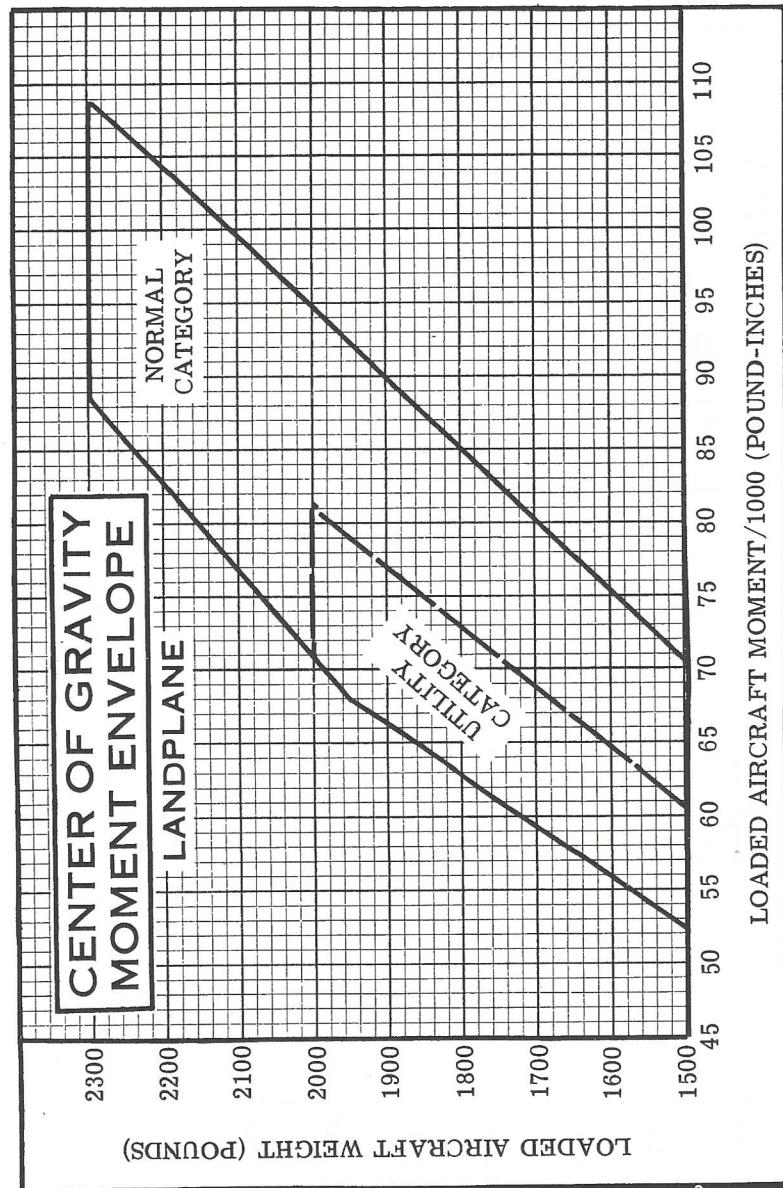


Figure 6-7. Center of Gravity Moment Envelope

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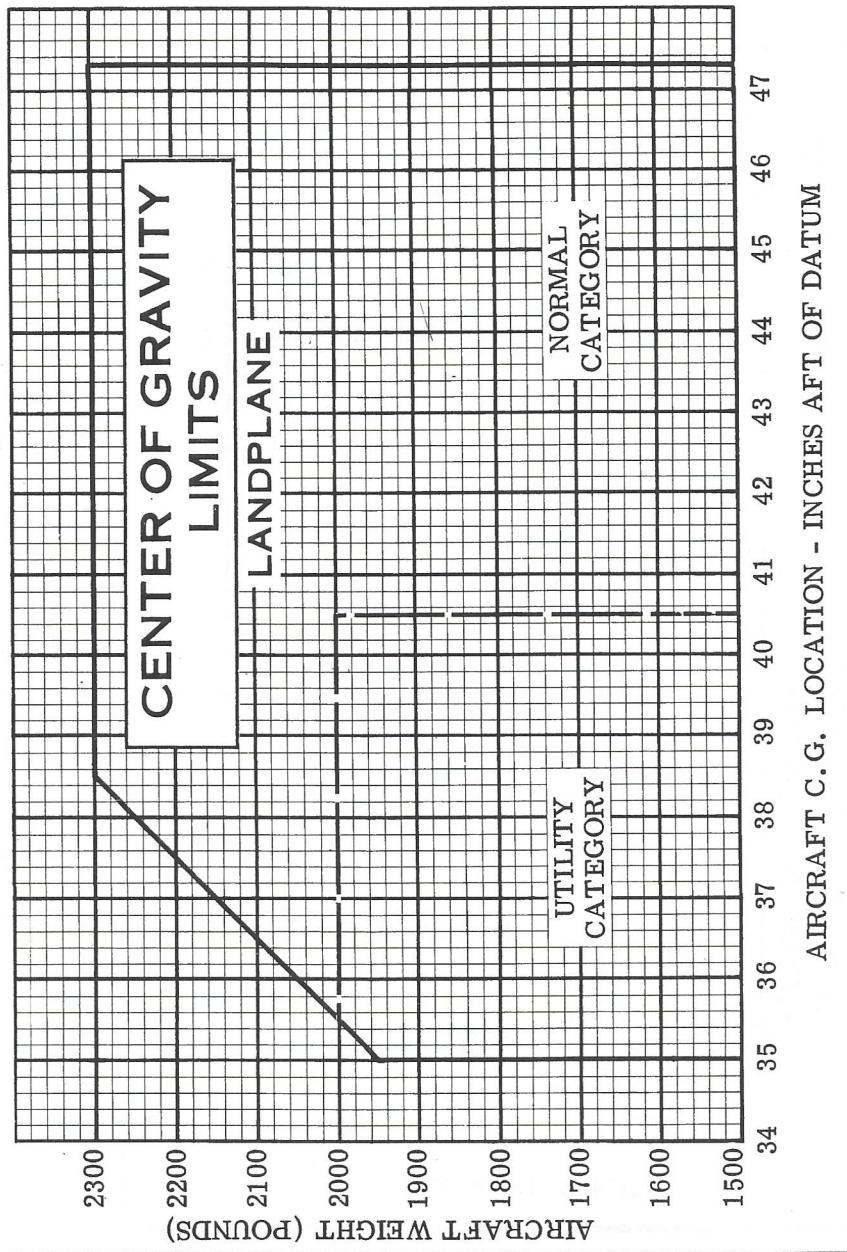


Figure 6-8. Center of Gravity Limits

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
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 FILTER, 14 VOLTS	C294510-0301 C611501-0102	10.5 19.5*	-26.0 -22.5*
A09-R	ALTERNATOR, 60 AMP (BELT DRIVE)	0550333	2.5	-2.5
A17-R	OIL COOLER INSTALLATION	10599A 0501060	2.5 2.5	-6.5
A21-A	OIL FILTER INSTALLATION (SPIN-ON ELEMENT)	0501060	-	-
A31-A	NET CHANGE ASSY.	C161001-0310	35.9*	-38.5*
A33-R	PROPELLER ASSY. (FIXED PITCH-LANDPLANE) 3.5 INCH PROP SPACER ADAPTOR (MCCAULEY)	C161001-0310 C4516 C161001-0311 C4516 C4516	30.1 33.6* 37.5* 31.8 32.6	-39.1 -35.4 -38.6* -39.1 -35.4
A33-O	PROPELLER ASSY. (FIXED PITCH-FLOATPLANE) 3.5 INCH PROP SPACER ADAPTOR (MCCAULEY)	C1A75/ETM8044	31.8	-
A41-R	SPINNER INSTALLATION, PROPELLER SPINNER, BOMB FWD SPINNER BULKHEAD AFT SPINNER BULKHEAD	0550320-8 0550321-4 0550321-10 0501054 0501052	1.2 1.2 0.3 0.4* 4.3*	-43.0 -40.8 -37.3 -33.0* -6.3
A61-S	VACUUM SYSTEM INSTALLATION DRY VACUUM PUMP (AV WT OF 4 TYPES)	C431003 C294502-0201 C668509-0101 C482001-0401 0501056-1 1701015	2.8 2.8 0.2 0.1 0.5 0.0	4.7 4.7 16.2 14.5 12.0 -
A70-A	VACUUM GAUGE RELIEF VALVE-REGULATOR PRIMER SYSTEM ENGINE THREE CYLINDER OIL QUICK DRAIN VALVE (NET CHANGE)	-	-	-
A73-A				
B. LANDING GEAR & ACCESSORIES				
B01-R	WHEEL BRAKE & TIRE ASSY, 6.00X6 MAIN (2) WHEEL ASSY, MCCAULEY BRAKE ASSY ** MCCAULEY BRAKE ASSY ** MCCAULEY TIRE, 4-PLY BLACKWALL	(LEFT) (RIGHT) (4 EACH)	C163015-0201 C163003-0101 C163032-0105 C163032-0106 C262003-0101	41.7* 6.9 1.9 8.5
				57.8* 58.2 54.5 58.2

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B04-R	TUBE & TIRE ASSY. 5" X 5" NOSE WHEEL ASSY. McCauley TIRE, 4-PLY BLACKWALL	C262023-0102 C163018-0101 C163005-0201 C262003-0102 C262023-0101 0541225-1	1.8* 8.7* 2.4* 4.7* 1.8* 17.8*	58.2* -6.8* -6.8* -6.8* 47.9* 60.
B10-S	FAIRING INSTALLATION WHEEL FAIRING NOSE WHEEL FAIRING MAIN WHEEL FAIRING (EACH)		14.0 5.	74.3
	C. ELECTRICAL SYSTEM			
C01-R	BATTERY, 12 VOLT, 25 AMP HOUR	0511319	23.0	0.0
C04-R	REGULATOR, 14 VOLT, 60 AMP ALTERNATOR	C611001-0201	0.5	3.0
C07-A	GROUND SERVICE PLUG RECEPTACLE	0501053	2.7	-2.6
C16-O	HEATING SYSTEM, PILOT (NET CHANGE)	052355	0.6	24.4
C22-A	LIGHTS, INSTRUMENT POST (REQUIRES INSTALLATION 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	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	-1*
C43-A	LIGHT INSTALLATION, OMNIFLASH BEACON BEACON LIGHT ON FIN TIP	0506003 C621001-0106	184.1* 205.1*	243.0* 208.1*
	FLASHER POWER SUPPLY	C594502-0102 OR95-15	0.4	0.8
	RESISTOR (MEMCOR)		0.3	0.3*
C46-A	LIGHT INSTALLATION, WING TIP STROBE FLASHER POWER SUPPLY (SET OF 2 IN WING)	0501027 C622007-0101	2.3	47.0*
C49-S	STROBE LIGHT, WING TIP (SET OF 2)	C622006	0.2	43.0*
C49-O	LIGHT INSTALLATION, COWL MOUNTED LANDING LAMP, 250 WATT (G.E.)	0570102 4522	1.9*	27.0*
	LIGHTS, DUAL COWL MOUNTED LANDING LAMP, 250 WATT (G.E.) (EACH)	0552141 4509	3.2*	-23.0*
			0.5	-29.0

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
D01-R	AIRSPEED INDICATOR. TRUE AIR SPEED	C661064-0102	16.3	
D01-Q	INDICATOR. ALTERNATE SOURCE	0513279	16.3	
D04-A	STATIC AIR ALTIMETER. SENSITIVE	0501017	15.5	
D07-R	ALTIMETER. SENSITIVE (50 FT. MARKINGS)	C661071-0101	14.0	
D07-0-1	ALTIMETER. SENSITIVE (FEET AND MILLIBARS) 20FT. MARKINGS	C661071-0102	14.0	
D07-0-2	ALTIMETER. SENSITIVE (FEET AND MILLIBARS) 20FT. MARKINGS	C661025-0102	14.0	
D10-A	ALTIMETER. (FEET AND MILLIBARS) 2ND UNIT INSTALLATION (DUAL)	2001015	14.5	
D16-A-1	ENCODING ALTIMETER. 2ND UNIT INSTALLATION (DUAL) (REQUIRES RELOCATION OF REGULAR ALTIMETER)	0501049	14.0	
D16-A-2	ENCODING ALTIMETER. FEET & MILLIBARS (REQUIRES RELOCATION OF REGULAR ALTIMETER)	0501049	3.0	
D16-A-3	ENCODING ALTIMETER. USED WITH TRANSPONDER. (INSTRUMENT PANEL MOUNTING NOT REQUIRED BECAUSE OF NO VISUAL READ OUT)	0501059	1.5*	
D19-R	AMMETER	C744001-0101	1.3	14.6
D22-A	CARBURETOR AIR TEMPERATURE GAGE	S-1320-5	1.3	16.5
D25-S	CLOCK. ELECTRIC	0513339	1.0	14.0
D28-R	CLOCK. MAGNETIC-INSTALLATION	C664508-0101	0.4	16.3
D38-R	INSTRUMENT CLUSTER. LH & RH FUEL QUANTITY INDICATORS	0513262-1	0.5	14.0
D41-R	INSTRUMENT CLUSTER. OIL PRESSURE, OIL TEMP., GYROS, ATTITUDE & DIRECTIONAL INDICATORS	C669511-0102	0.5	16.5
D64-S	GYRO INSTRUMENT (SIMILAR TO D64-S EXCEPT (NON-NAV-O-MATIC))	0501054-1	5.8*	14.0*
D64-0-1	DIRECTIONAL INDICATOR (AV. OF 4) ATTITUDE INDICATOR (AV. OF 3)	C661075 C661076 1201126-1	2.7 2.7 0.5	13.2 13.4 13.9*
D64-0-2	GYRO INSTALLATION (INDICATOR HAS A MOVEABLE HEADING POINT) (INDICATOR NET CHANGE)	0501054-2	6.9*	13.4*
D67-A	DIRECTIONAL INDICATOR (ARC)	40760	3.3	13.3
D82-S	RECORDER INSTALLATION. FLIGHT HOUR GAUGE OUTSIDE AIR TEMPERATURE	0501052	0.8	12.3
D85-R	TACHOMETER INSTALLATION. ENGINE	C668507-0101 0506004	0.1 1.0*	28.6 12.1*

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D88-S	RECORDING TACH INDICATOR FLEXIBLE SHAFT INDICATOR, TURN COORDINATOR INDICATOR, TURN COORDINATOR (FOR USE WITH NAV-O-MATIC 200A AND 300A) INDICATOR, TURN & BANK (NOT COMPATIBLE WITH NAV-O-MATIC) INDICATOR, RATE OF CLIMB	C668020-0118 S-1605-10 C661003-0504 42320-0014	0.7 0.3 1.9 2.0 1.0	16.0 15.0 15.8 14.6 14.5 14.9
D88-0-1		S-1413N2		
D88-0-2		C661080-0101		
D91-S				
E. CABIN ACCOMMODATIONS				
EO2-S	ARM RESTS - 2ND ROW (SET OF 2)	0715039	1.5	72.5
EO5-O	SEAT, INFINITE ADJUSTABLE - PILOT SEAT, INFINITE ADJUSTABLE AFT - CO-PILOT		12.0	44.0
EO7-S	SEAT, INFINITE ADJUSTABLE - CO-PILOT		12.6	44.5
EO9-S	SEAT, REAR (ONE PIECE BACK CUSHION) SEAT, REAR (TWO PIECE BACK CUSHION)		22.0	41.5
E11-A	SEAT, LAP BELT ASSY SEAT ASSY SHOULDER HARNESS ASSY, PILOT SHOULDER HARNESS ASSY, REAR INSTALLATION PILOT & CO-PILOT - REPLACES STD BELTS	0501009 S-1746-5 S-2275-103 S-2275-201 0501046-1	0.8 0.8 6.7 1.0 2.0	101.1*
E15-R	PILOT BELT ASSY SHOULDER HARNESS ASSY, PILOT SHOULDER HARNESS ASSY, REAR INSTALLATION PILOT & CO-PILOT - REPLACES STD BELTS		0.6	100.8
E15-S	AND HARNESS (NET CHANGE)		37.0	
E19-O	BELT & SHOULDER ASSY - CO-PILOT BELT ASSY, 2ND ROW (SET OF 2)		0.6	37.0
E23-S	SEAT BELT ASSY FOR 2ND ROW SEATING	S-2275-3 S-1746-13 S-2275-8	1.6 2.0 3.2	70.0
E27-S	DELUXE GLARESHIELD (NET CHANGE)	0515034	1.0	21.0
E27-O	DEALER COVERING (NET CHANGE)	0511803	2.0	62.0
E34-O	WINDOWS, HINGED, RH DOOR (NET CHANGE)	0511803	2.3	47.0
E35-A	WINDOWS, OVERHEAD CABIN TOP (NET CHANGE)	0700322	0.9	60.0
E37-A	VENTILATION SYSTEM, REAR SEAT	07001023	1.5	60.0
E43-A	BEVERAGE CUP HOLDER	0501023	0.1	47.0
E49-A	HEADREST, 1ST ROW (WT EACH)	1215073-11	0.7	86.0
E50-A	HEADREST, 2ND ROW (WT EACH)	0500312	0.3	15.9
E51-A	MIRROR, REAR VIEW			
E53-A				

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E55-S E57-A	SUN VISORS, (SET OF 2) WINDOWS, TINTED FRONT, SIDE & REAR (NET CHANGE)	0500040 0500267	0.9 0.0	32.8 --
E65-S E71-A	BAGGAGE NET RINGS, CARGO TIE-DOWN (STOWED) (USE ARM AS INSTALLED WITH CARGO)	2015009 0500042	0.5 1.0	95.0 --
E75-A	STRETCHER INSTALLATION - BOXED (USE ACTUAL WEIGHT AND ARM CHANGE)	0700164-4	--	--
E85-A E87-A E93-R	CONTROLS INSTALLATION, DUAL RUDDER TRIM SYSTEM HEATING SYSTEM*, CABIN & CARBURETOR AIR (INCLUDES EXHAUST SYSTEM)	0513335 0513290-1 0550333 0506004	4.9 1.9 17.5	12.4 12.4 -21.0
F. PLACARDS & WARNING				
F01-R F01-0-1	PLACARD, OPERATIONAL LIMITATIONS-DAY VFR PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR	0505053-1 0505053-2	NEGL NEGL	--
F01-0-2	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR	0505053-3	NEGL	--
F01-0-3	PLACARD, OPERATIONAL LIMITATIONS-DAY VFR FLOADPLANE	0505053-16	NEGL	--
F01-0-4	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR FLOADPLANE	0505053-17	NEGL	--
F01-0-5	PLACARD, OPERATIONAL LIMITATIONS-DAY NIGHT VFR IFR FLOADPLANE	0505053-18	NEGL	--
NOTE THE ABOVE PLACARDS ARE INSTALLED ACCORDING TO AIRCRAFT EQUIPMENT INDICATOR, AUDIBLE PNEUMATIC STALL OVERVOLT WARNING LIGHT * ALTERNATOR				
F04-R F13-S	0523112	0.2 NEGL	28.5 --	
G. AUXILIARY EQUIPMENT				
G04-A G07-A G13-A	TOW HOOK (INSTALLED) (STOWED) RINGS, AIRPLANE HOISTING (CABIN TOP) CORROSION PROOFING, INTERNAL	0500228 0541115 0500036	0.5 0.1 10.0	229.0 95.0 49.1 77.0

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G16-A	STATIC DISCHARGERS	0501048	143.2	
G19-A	STABILIZER ABRASION BOOTS	0500041	206.0*	
G22-S	TOW BAR (STOWED)	0501019	95.0*	
G25-S	PAINT OVERALL EXTERIOR COVER	0504032	11.1*	
	OVERALL WHITE BASE		10.8	
G25-D	COLOR STRIPE		90.3	
G31-A	PAINT SCHEME - SKYHAWK II CABLES, CORROSION RESISTANT CONTROL (NET CHANGE)	0504032 0500036	136.3 191.6 1.0	136.3 191.6 1.0
G55-A	FIRE EXTINGUISHER INSTALLATION	0501011	0.4	
	FIRE EXTINGUISHER MOUNTING BRACKET	C421001-0101	2.7	
	FIRE EXTINGUISHER MOUNTING ASSISTING	C421001-0102	2.1*	
G58-A	STEPS & HANDLES, REFUELING ASSISTING	0513415	0.3	
G88-A-1	WINTERIZATION KIT INSTALLATION, ENGINE	0501008	1.7	
	BREATHER TUBE INSTALLATION	0552011	1.7*	
	TWO COWL INLET AIR COVERS (INSTALLED)	0552132-1,*	0.8	
	(STOWED)	0552132-1,*	-2	
G88-A-2	WINTERIZATION KIT INSTALLATION, FLOATPLANE ONLY	0552011	0.4*	
	BREATHER TUBE INSULATION (1)	0552011	0.4*	
	COWL OUTLET COVER (1)	0552011	0.4*	
G92-O	FUEL SYSTEM, LONG RANGE WING TANKS (NET CHANGE)	05220013	95.0	95.0
			48.0	
	H. AVIONICS & AUTOPILOTS			
HC1-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*	21.0*
	DME INSTALLATION, NARCO DME RECEIVER (DME-190) MOUNTING BOX	3910166-1	2.3 0.9 0.2	12.0 14.0 10.8
HC7-A	ANTENNA, CESSNA 400 GLIDESLOPE RECEIVER (R-443B)	UDA-3 3910157-2 42100-0000	4.0 0.2 2.1	86.2 11.3 117.3

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H10-A	PANTRONICS PT-10A HF TRANSCIVER 1ST UNIT ANTENNA LOAD BOX HF POWER SUPPLY (PANEL MOUNTED) NOTE--1ST UNIT INSTL. COMPONENTS CONSIST AS LISTED ANTENNA INSTALLATION. 351 INCHES LONG CABLE ASSEMBLIES HEADSET INSTALLATION MICROPHONE INSTALLATION AUDIO SWITCHING CONTROL NOISE FILTER CABIN SPEAKER ASSEMBLY RADIO COOLING PANTRONICS PT-10A HF TRANSCIVER 2ND UNIT ANTENNA LOAD BOX (PANEL MOUNTED)	12000098-2 13910156-8 C582103-0102 C589502-0101 C582103-0201 0570400-616 3950122-15 3970125-4 3970124-1 3970121-1 3940148-1 C596504-0201 3930152-01 3910156-9 C582103-0102 C589502-0101 C582103-0201 0570400-715 0570400-616 3910158-1 99816 99682 99680 - 3910156-11 3910158-5 3910164-1 39210-5114 07700681-1 3910174-2 3940185-1 0770681-1 3910127-17 41420-1114 41530-0001	0.2* 24.8* 4.2 8.5 0.3 2.5 0.2 0.3 1.9 0.1 0.1 1.1 20.2* 22.0* 4.2 4.2 8.5 8.5 0.5 0.5 2.5 2.5 0.3 2.0* 2.4* 4.9 8.5 4.6 0.3 2.3* 2.0*	30.0 C* 70.7* 112.5 114.4 144.4 141.0 14.2 17.5 12.5 -26.1 37.9 10.2 10.1 88.8* 10.4 112.5 114.4 114.4 114.4 141.0 144.4 182.8* 112.0 114.0 110.4 144.4 144.4 82.8* 34.5* 136.8* 115.9* 136.8* 11.1 126.0
H11-A-1	SUNAIR ASB-125 HF TRANSCIVER , 2ND UNIT ANTENNA LOAD BOX HF POWER SUPPLY (REMOTE) NOISE FILTER, HIGH FREQ. POWER & SIGNAL CABLES ANTENNA INSTALLATION 351 IN. LONG	3910158-1 99816 99682 99680 - 3910156-11 3910158-5 3910164-1 39210-5114 07700681-1 3910174-2 3940185-1 0770681-1 3910127-17 41420-1114 41530-0001	0.2* 2.4* 8.5 4.6 0.3 2.3* 2.0*	
H11-A-2	PANTRONICS PT-10A HF TRANSCIVER , 2ND UNIT ANTENNA LOAD BOX POWER SUPPLY (REMOTE) TRANSCIVER (PANEL MOUNTED) ANTENNA INSTALLATION. 351 IN. LONG MISC. SWITCHES, WIRES AND ETC. PANTRONICS PT-10A HF TRANSCIVER 3RD UNIT SAME AS 2ND UNIT (ITEM H-11-A-1) SUNAIR ASB-125 HF TRANSCIVER 3RD UNIT SAME AS 2ND UNIT (ITEM H-11-A-2) CESSNA 400 MARKER BEACON RECEIVER (R-402A) ANTENNA MARKER BEACON (USED IN EXPORT A/C)	3910158-1 99816 99682 99680 - 3910156-11 3910158-5 3910164-1 39210-5114 07700681-1 3910174-2 3940185-1 0770681-1 3910127-17 41420-1114 41530-0001	0.2* 2.4* 8.5 4.6 0.3 2.3* 2.0*	
H11-A-3				
H11-A-4				
H13-A-1				
H13-A-2	BENDIX MARKER BEACON SHAPED ROD RECEIVER, GM-247A ANTENNA, SHAPED ROD	07700681-1 3910174-2 3940185-1 0770681-1 3910127-17 41420-1114 41530-0001	0.7 3.1* 0.7 0.7 4.0* 2.7 0.3	34.5* 136.8* 115.9* 136.8* 11.1 126.0
H16-A-1	CESSNA 300 TRANSPOUNDER TRANSCIVER (RT-359A) ANTENNA (A-109A)			

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SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM IN
H16-A-2	CESSNA 400 TRANSPONDER (USED FOR EXPORT) TRANSCIEVER (RT-459A) ANTENNA (A-109A)	3910128-21 41470-1114 41530-0001	25.1* 2.9* 1.6* 1.1*	11.1 12.5 13.7 14.2
H19-A	CESSNA 300 VHF TRANSCIEVER, 1ST UNIT TRANSCIEVER (RT-524A) 1ST UNIT INSTALLATION ITEMS (AS LISTED BELOW) --	391055-7 31390-1114	11.0* 11.0* 21.2	11.0 11.0 21.2
H20-A	RADIO COOLING ANTENNA, L-H. VHF COM. AUDIO CONTROL PANEL, SWITCHES & WIRING CABIN SPEAKER MICROPHONE INSTALLATION HEAD SET INSTALLATION CESSNA 300 VHF COM TRANSCIEVER- 2ND UNIT TRANSCIEVER (RT-524A) RH COM ANTENNA CABLE ANTENNA, R-H. VHF COM. MISC ITEMS & WIRING	3930152-1 3960113-1 3970121-1 3970123-5 3970124-1 3970125-4 3910155-8 31390-1114 3950122-0 3960113-2	1.1 0.4 1.9 0.3 0.3 0.2 0.7* 5.7* 0.4 0.4 1.4 14.0*	11.4 6.2 12.5 13.7 13.7 14.2 14.2 11.0 22.7 22.7 6.2 11.1 32.0*
H22-A-1	RECEIVER-TRANSMITTER (RT-308C) VOR/LOC INDICATOR (IN-5148) NOTE--1ST UNIT INSTALLATION COMPONENTS ARE AS LISTED	42450-11114 45010-1000	6.4 0.6	11.5 16.3
H22-A-2	AUDIO CONTROL SYSTEM HEADPHONE INSTALLATION MICROPHONE INSTALLATION (HAND-HELD) NOISE FILTER (AUDIO) (ON ALTERNATOR) RADIO COOLING SPEAKER INSTALLATION COMMUNICATION ANTENNA CABLE (CO-AX) COMM. ANTENNA CABLE OMNI ANTENNA INSTALLATION COMMUNICATIONS SPIKE ANTENNA INSTL CESSNA 300 NAV/COM, 720 CH, FIRST UNIT WITH VOR/LOC	3970121 3970125-4 3970124-1 3940148-1 3930152-1 3970123-2 3950122-3 3950122-4 3960102-10 3960113-1 3910150-20	1.9 0.3 0.1 1.1 1.2 0.4 0.4 0.6 0.8 0.4 14.5*	12.5 11.7 10.1 37.9 37.8 11.6 22.0 31.3*
H22-A-3	RECEIVER-TRANSMITTER (RT-328T) VOR/LOC INDICATOR (IN-5148) CESSNA 300 NAV/COM, 720 CH, FIRST UNIT WITH VOR/ILS	43340-1124 45010-1000 3910152-20	6.9 0.6 14.6*	11.5 16.3 31.2*

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
H25-A-1	<p>RECEIVER-TRANSMITTER (RT-328T) VOR/ILS INSTL INDICATOR (IN-526B) INSTL COMPONENTS SIMILAR TO H22-A-1 CESSNA 300 NAV/COM. WITH VOR/LOC RECEIVER-TRANSMITTER (RT-308C) VOR/LOC INDICATOR (IN-514B)</p> <p>NOTE—2ND UNIT INSTALLATION COMPONENTS ARE AS LISTED COMMUNICATION ANTENNA CABLE—RH SIDE OMNI ANTENNA COUPLER (SIGNAL SPLITTER) COMMUNICATION ANTENNA, RIGHT SIDE MISC. NAV/COM INSTL ITEMS—INCL MOUNT. CESSNA 300 NAV/COM.</p> <p>WITH VOR/LOC RECEIVER-TRANSMITTER (RT-328T) VOR/LOC INDICATOR (IN-514B)</p> <p>INSTL COMPONENTS SIMILAR TO H25-A-1 EMERGENCY LOCATOR TRANSMITTER (LEIGH SHARC-7) ANTENNA LOCATOR TRANSMITTER (USED IN CANADA) TRANSMITTER ANTENNA NAV-O-MATIC 200A D88-0-1 TURN COORDINATOR (NET CHANGE) WING INSTALLATION SERVO UNIT (PA-295B)</p>	<p>43340-1124 45010-2000 3910151-8 42450-1114 45010-1000</p> <p>3950122-2 3960111-1 3960113-2 3910150-21</p> <p>43340-1124 45010-1000</p> <p>0401008-2 C589510-0203 0401008-5</p> <p>C589510-0212 C589510-0107 3910162-1 42320-014 0522632-1 42330 3910163-1 C41-395A C41-3998 42320-0014 0522632-1 42330 3940151-1 C522632-2 3970112-1</p> <p>6.9 0.7 9.5* 6.4 0.6</p> <p>0.4 0.4 1.0* 1.0* 0.6</p> <p>11.5 16.3 14.4* 11.5 16.3</p>	<p>6.9 0.7 9.5* 6.4 0.6</p> <p>0.4 0.4 1.0* 1.0* 0.6</p> <p>11.5 16.3 14.4* 11.5 16.3</p> <p>11.6-6* 2.0* 2.0* 1.8* 1.8*</p> <p>11.6-4 1.8* 1.8* 1.8* 1.8*</p> <p>11.6-6* 11.6-6*</p>	<p>11.5 16.3 14.4* 11.5 16.3</p> <p>27.8 27.0 62.4 10.7 14.3*</p> <p>11.5 16.3</p> <p>11.6-6* 11.6-4 11.6-4 11.6-4 11.6-4</p> <p>11.6-6* 11.6-6*</p> <p>11.6-4 11.6-4 11.6-4 11.6-4 11.6-4</p>
H25-A-2				
H26-A-1				
H28-A-2				
H31-A-1				
H31-A-2				
H43-A				
H55-A				

ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
J. SPECIAL OPTION PACKAGES				
J01-A	SKYHAWK II EQUIPMENT CONSISTS OF ITEMS D01-A TRUE AIR SPEED IND (NET CHANGE) C16-0 HEATED PILOT SYSTEM E85-A DUAL CONTROLS C40-A NAU LIGHT DEFECTORS C31-A COURTESY LIGHTS C43-A FLASHING BEACON LIGHT SOURCE D04-A STATIC ALTIMETER XMT (ELT) H28-A EMERGENCY LOCATOR XMT (ELT) G25-0 SKYHAWK II PAINT (NET CHANGE) H22-A-1 NAV/COM 308C VOR/LOC NAV-PAC INSTALLATION (SKYHAWK II ONLY) H22-A-2 328T NAV/COM VOR/LOC 1ST UNIT H22-A-1 308C NAV/COM 1ST UNIT DELETED H25-A-1 308C NAV/COM VOR/LOC ADDED H01-A ADF (546 E) H16-A-1 300 TRANSPONDER (RT-359) FLOATPLANE FUSELAGE STRUCTURAL MODIFICA- PTIONS & FITTINGS (OPTION C) FLOATPLANE COWDECK V BRACE (INSTALLED) FLOATPLANE AILERON-RUDDER INTERCONNECT FLOATPLANE ONLY (INSTALLED)	0500510 0513279 042355 0513335 0701013 0521011 0506003 0501017 0401008 0504032 3910151-7 3910161	48.3* 16.7 24.4 12.4 NEGL - 0.5 2.1 0.2 0.0 14.0* -14.0 14.0 14.0 14.0 4.0 6.1 6.1 1.1 1.1 0.4 0.4	48.4* 0.1 0.6 4.9 12.4 61.0 184.2 2.0 116.6 32.0* 318.3 32.0 21.0 26.5 - -
J04-A	ITEMS J10-A & J13-A ARE ALSO APPROVED FOR LANDPLANE OPERATIONS & J02 ATTACHMENTS MODEL 89A2000 FLOATS & J02 ATTACHMENTS NET CHANGE BETWEEN STANDARD LANDING GEAR (ITEM NOSE BO1-R, BO4-R, B10-S AND BRAKE & NOSE WHEEL STEERING 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.	0500083 0513003 0560012	45.5 26.2 69.6 95.0	- - - -
J10-A J13-A J15-A				
J27-A	EDO-36335			

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

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ITEM NO	EQUIPMENT LIST DESCRIPTION	REF DRAWING	WT LBS	ARM INS
J30-A-1	FLOATPLANE EQUIPMENT KIT, COMPLETE. OPTION A CONSISTS OF ITEMS F01-0- G31-A G13-A G07-A G58-A J10-A J13-A J15-A	05000083 0550320 0505053 0500036 0500036 0541115 0513415 0500083 0513003 0560012 0552162 0500083 0505053 0500036 0500036 0541115 0513415 0500083 0513003 0560012 0552162	21.7* 1.3 0.0 0.0 10.0 10.1 1.1 6.1 1.1 0.4 NEGL. 0.0 0.0 0.0 10.0 1.1 6.1 1.1 0.4 NEGL. 0.0 0.0 0.0 10.0 1.1 6.1 1.1 0.4 NEGL. 0.0 0.0 0.0 10.0 1.1 6.1 1.1 0.4 NEGL. 0.0 0.0 0.0 10.0 1.1 6.1 1.1 0.4 NEGL.	52.3* -41.4 - - 77.0 49.1 17.8 45.5 26.2 6.9 - - - 77.0 49.1 17.8 45.5 26.2 6.9 - - - 77.0 49.1 17.8 45.5 26.2 6.9 - - - 77.0 49.1 17.8 45.5 26.2 6.9 - - - 77.0 49.1 17.8 45.5 26.2 6.9 -
J30-A-2	FLOATPLANE EQUIPMENT KIT, PARTIAL OPTION B CONSISTS OF ITEMS F01-0- G31-A G13-A G07-A G58-A J10-A J13-A J15-A	0500083 0550320 0505053 0500036 0500036 0541115 0513415 0500083 0513003 0560012 0552162 0500083-17	20.4* 6.2-5*	6.2-5*
J30-A-3	FLOATPLANE KIT B WITH NO INTERNAL CORROSION PROOFINGS G07-A G58-A J10-A J13-A J15-A	0500083-17	10.4*	41.2*