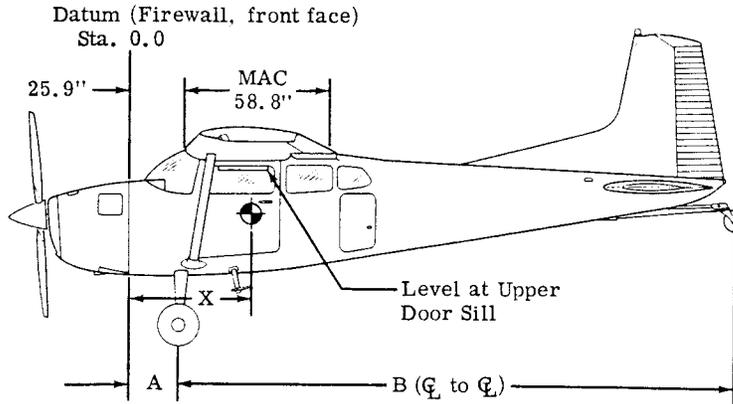


Weighing Procedure

MODEL A185F

1973



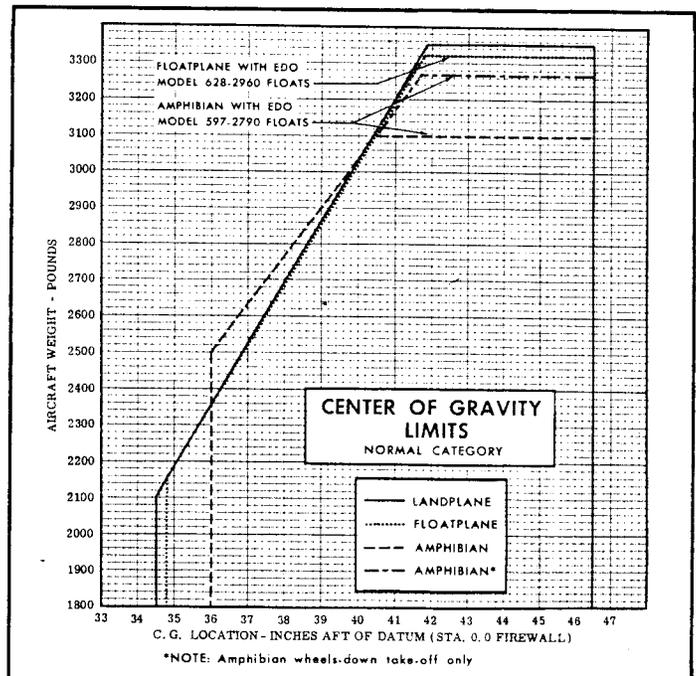
A=
B=

Scale Position	Scale Reading	Tare	Symbol	Net Weight
Left Wheel			L	
Right Wheel			R	
Tail Wheel			T	
Aircraft Empty Weight (As Weighed)			W	

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

- Preparation:
 - Inflate tires to recommended operating pressures.
 - Remove all wing tank and accumulator tank drain plugs to remove all fuel.
 - Remove oil sump drain plug to drain all oil.
 - Move all sliding seats to most forward position. All seat backs should be in the most nearly vertical position.
 - Put flaps in the fully retracted position.
 - Place all control surfaces in neutral position.
- Leveling:
 - Place scales under each main wheel (1000# minimum capacity for scales.) Place screw jack on 500# minimum capacity scale and place under tailwheel.
 - Adjust screw jack on scale to center bubble on level. (See diagram.)
- Weighing:
 - With the airplane level and brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.
- Measuring:
 - Obtain measurement "A" by measuring horizontally (along airplane center line) from a line stretched between the main wheel centers (determined from the axle attaching bolt pattern on the inner face of the landing gear spring) to a plumb bob dropped from the firewall.
 - Obtain measurement "B" by measuring horizontally (parallel to airplane center line) from the line stretched between main wheel centers (determined from the axle attaching bolt pattern on the inner face of the landing gear spring) to a plumb bob dropped from the center of the tailwheel, left side. Repeat on right side and average measurements.
 - When Cessna Castering Gear is installed add 0.7" to measurement "A" and subtract 0.7" from measurement "B".
- Completing the Form:
 - Using weights from (3) and measurements from (4), the airplane weight and C. G. can be determined.

- Obtain licensed empty weight by adding weight and moment of unusable fuel to the airplane empty weight and moment. There are 3 gallons of unusable fuel (weight = 18#; moment = 828 lb in.) in airplanes having an "ON-OFF" fuel system and 6 gallons of unusable fuel (weight = 36#; moment = 1656 lb in.) in airplanes having a "SELECTOR VALVE" fuel system.



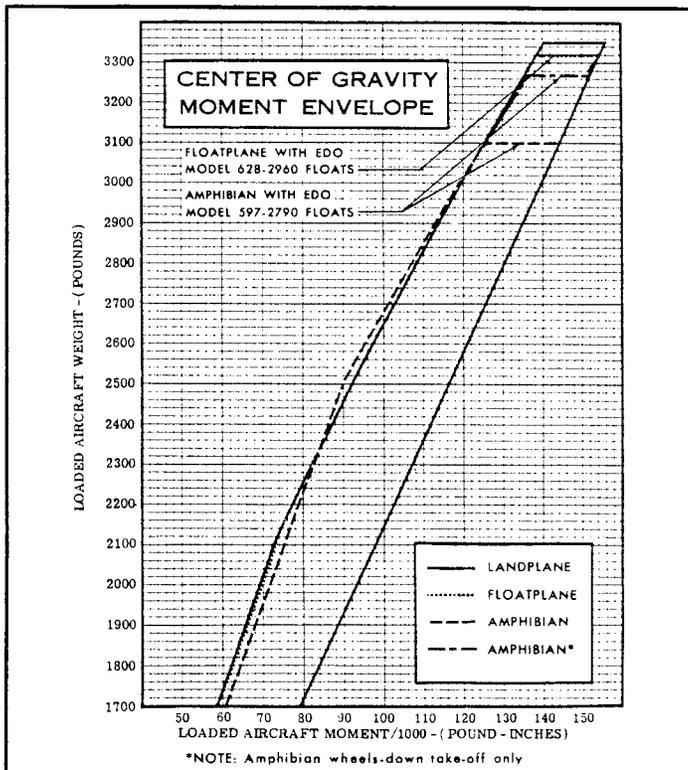
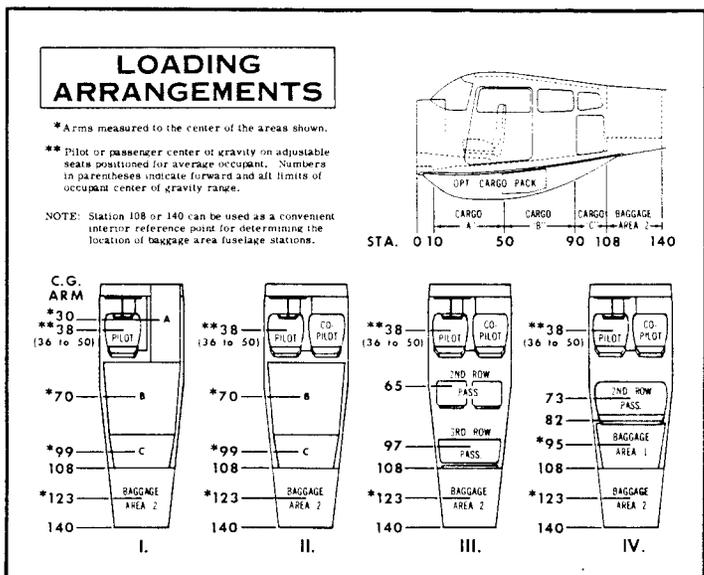
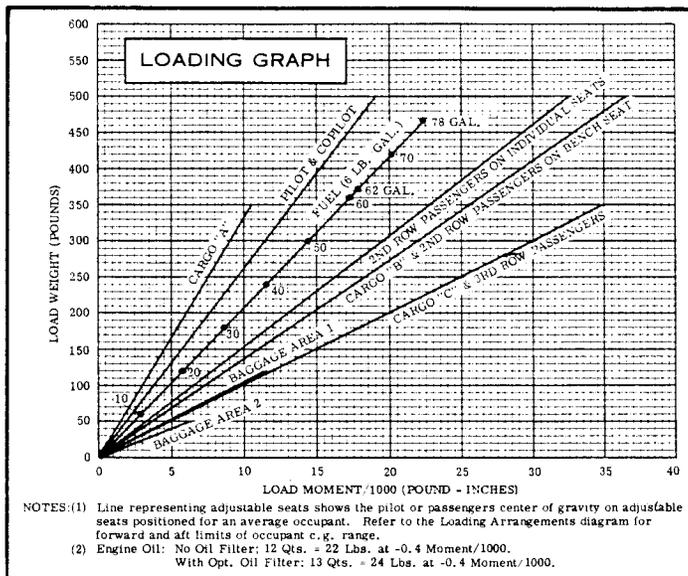
Loading and Center of Gravity Charts

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO ENSURE THAT THE AIRCRAFT IS LOADED PROPERLY

When computing aircraft loading requirements, refer to the Weight and Balance and Installed Equipment Data sheet in the aircraft file for the licensed empty weight, arm and moment of the aircraft as delivered from the factory. (If alterations have been made to the aircraft, refer to FAA form 337 for the latest empty weight, arm and moment.) The aircraft weight and balance may then be determined using the Loading Graph and Center of Gravity Moment Envelope as indicated in the Sample Loading Problem below.

SAMPLE LOADING PROBLEM	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins. 1000)	Weight (lbs.)	Moment (lb.-ins. 1000)
1. Licensed Empty Weight (Sample Airplane)	1677	60.3		
2. Oil (The weight of full oil may be used for all calculations: No Oil Filter: 12 Qts. = 22 Lbs @ -0.4 Moment/1000 With Opt. Oil Filter: 13 Qts. = 24 Lbs @ -0.4 Moment/1000	22	-0.4		
3. Fuel (Standard - Max. 82 Gal. @ 6 Lbs./Gal.) Fuel (Long Range - Max. 78 Gal. @ 6 Lbs./Gal.)	372	17.9		
4. Pilot and Copilot (Sta. 36 to 50)	170	6.5		
5. 2nd Row Passengers On Individual Seats 2nd Row Passengers On Bench Seat 3rd Row Passengers (120 Lbs Max. If Child's Seat)				
6. *Cargo "A" (Sta. 10 to 50) *Cargo "B" (Sta. 50 to 90) *Cargo "C" (Sta. 90 to 108) Baggage Area 1 (Sta. 82 to 108, 120 Lbs. Max.) Baggage Area 2 (Sta. 108 to 140, 50 Lbs. Max.) Cargo Pack (Sta. 5 to 115, 300 Lbs Max.)	300 750 58	9.0 54.8 5.8		
7. TOTAL WEIGHT AND MOMENT	3350	153.9		
8. Locate this point (3350 at 153.9) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.				

*Maximum allowable cargo loads will be determined by the type and number of tie-downs used, as well as by the airplane weight and C.G. limitations. Floor loading must not exceed 200 lbs per square foot.





NOTES

- 1. Suffix letter to item numbers:
 - 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
 - 2. Refer to the sheet titled "Weight and Balance and Installed Equipment Data" for a listing of equipment installed on your aircraft at the factory.
 - 3. Unless otherwise indicated, true values (not net change values) for weight and arm are shown. Positive arms are distances aft of datum; negative arms are distances forward of datum (see "Weighing Procedures" sheet for datum location).
 - 4. A separate FAA approval must be obtained if the following items are not installed per applicable Cessna drawings or accessory kit instructions.
- * Complete assembly installations are indicated by asterisks after the item weight and arm. 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	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
001-R	Engine, Continental IO-520-D Spec 23 Two Magnetos With Impulse Coupling Oil Cooler Mounting Provisions Oil Cooler Twelve 18 mm x 3/4 20-3A Spark Plugs Starter, 12 Volt Prestolite MCL 6501	0750227 Slick 662 EQ 5968 TCM SL 350 TCM 634592	450.0* 12.9 2.3 5.3 3.0 17.8	-17.0* -12.5 -31.5 -31.5 19.0 -4.0
002-R	Propeller, McCauley D2A34C58/90AT-8)	C161004-0106	55.3	-40.2
002-O	Propeller, Floatplane (McCauley D2A34C58/90AT-4)	C161004-0107	55.5	-40.2
003-R	Spinner, Propeller	0752040	4.0	-39.5
004-R	Governor, Propeller (McCauley C290-D2/T9) (Woodward A210462) (Edo-Aire 34-828-01-1)	C161030-0107 C161040-0107	3.0 3.0 3.0	-32.0 -32.0 -32.0
005-R	Filter, Engine Induction Air	0750038	1.0	-33.0
006-R	Muffler Assembly, Including Heat Jacket for Cabin & Induction Air	0750161	18.0	-15.5
007-O	Oil Cooler, Non-Congeaing Modine Replaces Item 001-R Oil Cooler and changes engine designation to IO-520-D Spec. 24 (Net Change)	TCM 639171	2.3	-31.5

APPROVED
Cessna Aircraft Co. Pawnee Div.
Delegation Option Manufacturer, CE-1

Executive Engineer

ISSUED: 20 Sept. '72

REVISED: 25 Oct. '72

APPROVED:

Date 10-4-72

SHT 1 OF 11



EQUIPMENT LIST (CONT'D)
MODEL A185F (1973)

CESSNA AIRCRAFT CO

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
010-R	Tachometer, Recording	C668020-0107	1.5	14.0
011-R	Gage, Manifold Pressure & Fuel Flow	C662037-0103	1.1	15.5
012-R	Gage, Engine Cluster	C669502-0202	1.3	13.5
013-R	Alternator, 60 Amp, 14-Volt (C611501-0102)	1250212	11.5	-3.5
014-R	Regulator, Alternator, 60 Amp, 14-Volt	C611001-0101	1.0	-1.0
015-R	Battery, 12-Volt, 33 Amp Hour	0712605	28.0	114.0
016-R	Indicator, Stall Warning Audible Instl.	0700185	0.5	27.0
017-R	Altimeter	C661012-0101	0.8	15.5
017-0	Altimeter, Sensitive	C661071-0101	1.0	15.0
017-0-1	Altimeter, Sensitive (Feet & Millibars)	C661071-0102	1.0	15.0
018-R	Compass, Magnetic	0413517-14	0.5	16.0
020-R	Wheel, Tire, Tube and Brake Assy. 6.00x6 6-Ply (Main) (Two)	0741025-9,-10 1241156-105	39.0*	21.2*
	Wheel Assy (Cleveland 40-75B)	C163001-0301	6.2	21.6
	Tire	C262003-0204	8.7	21.6
	Tube	C262023-0102	1.8	21.6
	Brake Assy - L.H. (Cleveland 30-52)	C163030-0303	2.8	18.9
	Brake Assy - R.H. (Cleveland 30-52)	C163030-0304	2.8	18.9
020-0-1	Wheel, Tire, Tube and Brake Assy. 6.00x6 6-Ply (Main) (Two)	0741025-9,-10 C163016B0111	40.2*	26.2*
	Wheel Assy (McCauley) (D30063-1)	C163002-0102	6.5	21.6
	Tire	C262003-0204	8.7	21.6
	Tube	C262023-0102	1.9	21.6
	Brake Assy - L.H. (McCauley) (D30118-1)	C163032-0201	3.0	18.9
	Brake Assy - R.H. (McCauley) (D30118-2)	C163032-0202	3.0	18.9
020-0-2	Wheel, Tire, Tube and Brake Assy. 8.00x6 6-Ply (Main) (Two)	0741025-11,-12	43.2*	21.3*
	Wheel Assy (Cleveland 40-75D)	C163001-0302	6.2	21.6
	Tire	C262003-0207	10.7	21.6
	Tube	C262023-0104	1.9	21.6
	Brake Assy - L.H. (Cleveland 30-52N)	C163030-0313	2.8	18.9
	Brake Assy - R.H. (Cleveland 30-52N)	C163030-0314	2.8	18.9
020-0-3	Wheel, Tire, Tube and Brake Assy. 8.00x6 6-Ply (Main) (Two)	0741025-11,-12 C163016B0113	44.2*	21.2*
	Wheel Assy (McCauley)	C163002-0104	6.5	21.6
	Tire	C262003-0207	10.7	21.6
	Tube	C262023-0104	1.9	21.6
	Brake Assy - L.H. (McCauley) (D30118-1)	C163032-0201	3.0	18.9
	Brake Assy - R.H. (McCauley) (D30118-2)	C163032-0202	3.0	18.9
021-R	Wheel and Tire Assy (One) 8.00 Pneumatic Type Tail	0742147-8	4.5	260.0
021-0	Wheel and Tire Assy (One) (Net Change) 10.00 Pneumatic Type Tail	0742147-9	2.0	263.3
030-R	Seat, Pilot	1200605-40	13.0	44.0
030-0-1	Seat, Pilot Vertical Adjusting	0515001	21.0	41.5
031-R	Belt, Safety Pilot	S-2070-103	1.0	37.0
032-S	Shoulder Harness Assy - Pilot	S-2070-201	1.0	37.0

ISSUED: 20 Sept '73 REVISED: 24 Oct. '73 = C ; Retyped 24 Oct. '73

SHT 2 OF 11



EQUIPMENT LIST (CONT'D)
MODEL A185F (1973)

CESSNA AIRCRAFT CO

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
033-R	Light, Omni-Flashing Beacon	0731001	1.7*	192.2*
	Light Assy (on Fin Tip)	C621001-0103	0.4	216.5
	Flasher Assy	C594502-0101	0.7	217.2
034-S	Landing Light, Cowl Mounted	0752031	1.6*	-25.3*
	Light Bulbs (Each)	GE 4509	0.5	-32.5
035-R	Indicator, Airspeed	C661060-0204	0.7	16.0
036-O	Indicator, True Airspeed	0713842	0.8	16.4
037-R	Pump, Fuel, Electric	0716117	2.0	-3.5
038-S	Paint Scheme, Std Stripe (15785 sq.in.)	0704020	2.4	114.8
038-O	Paint Scheme, Overall Cover	0704020	11.1*	95.2*
	Overall Base Cover (102282 sq.in.)		8.9	90.3
	Accent Stripe (15785 sq.in.)		2.2	114.8
038-O-1	Paint Scheme, AgCarryall	0704021	12.1*	95.9*
	AgCarryall Stripe (22834 sq.in.)		3.2	111.3
039-S	Baggage Net, Retaining (Set of 2)	2015009-3	1.2	124.0
040-S	Electrical Bus Bar and Relay	0700294	0.3*	16.0*
	Relay, Electronic Disconnect	S-1917-1	0.3	16.0
041-S	Overvolt Warning System	0700294	0.2*	15.0*
	Overvolt Sensor	C5921001-0101	0.2	15.0
	Warning Light	S-2135-1	0.0	17.0
050-R	Placard, Operation Limitation - Landplane, Floatplane, and Amphibian VFR Day-Night	1205001-160	0.0	
050-O	Placard, Operation Limitation - Landplane, Floatplane, and Amphibian IFR	1205001-161	0.0	
200-A	V-Brace, Floatplane Cowl Deck	0713878	2.7	25.0
201-A	Cables, Corrosion Resistant (Net Change)	0700082	0.0	-
202-A	Cargo Pack, External Belly Mounted	0700067	37.0	60.5
203-A	Clock, Installation, Electric	0700117-1	0.7*	48.5*
	Clock	C664508-0101	0.3	17.0
204-A	Controls, Dual (Stowable Pedals)	0760000	5.5	14.0
205-A	Corrosion Proofing, Internal	0700082	7.0	72.0
206-A	Detector Instl. Navigation Light (Set of 2)	0701013	0.0	-
207-A	Door Installation, Stretcher	0712013	4.8	119.1
208-A	Control Wheel - All Purpose (Net Change)		0.0	-
210-A	Filler Cap, Inboard Fuel Instl. (Set of 2) (Used With 261-A Long Range Tanks)	0721303	2.0	41.5
211-A	Filter, Full Flow Engine Oil	0756025	4.5	-4.0
	Engine Adaptor	1250922-2	2.0	
	Filter Element	C294505-0102	0.3	
212-A	Fire Extinguisher	0701014	3.0	35.0
213-A	Fuel Selector Valve - 3 Position	0716116	1.4	42.0
214-A	Gage, Outside Air Temperature	0701010	0.1	28.5
215-A	Ground Service Plug, Landplane	0700170	2.6	-1.9
215-A-1	Ground Service Plug, Floatplane	0712011	2.6	111.0
216-A	Gyros, Horizon and Directional, New	0706001	6.1	13.5
216-A-1	Gyros, Horizon and Cessna Directional, New (Use with Nav-O-Matic 300)	0701005-4	6.8	12.7

A

B



EQUIPMENT LIST (CONT'D)
MODEL A185F (1973)

CESSNA AIRCRAFT CO

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
220-A	Headrests, 1st Row Seats (Two Installed)	0514048-1	1.8	46.0
221-A	Headrests, 2nd Row Seats (Two Installed)	0514048-1	1.8	86.0
222-A	Hourmeter, Engine Time, Hydraulic Actuated Indicator	0700331	0.8*	11.6*
223-A	Heating System, Pitot and Stall Warning (Net Change)	C664501-0103	0.5	16.5
224-A	Indicator, Economy Mixture	0713970	0.5	26.5
225-A	Indicator, Vertical Speed	0700141	1.0	6.0
226-A	Indicator, Turn Coordinator	C661080-0101	0.9	15.0
226-0	Indicator, Turn and Bank	0770111	1.3	15.7
226-0-1	Indicator, Turn Coordinator (for use with Item 500-A)(ARC)	S-1413N2	2.0	15.0
227-A	Light Instl. Under Wing Courtesy (Set of 2)	0700615	1.9	14.5
228-A	Light, Map (Control Wheel Mounted)	1570149	0.5	61.9
229-A	Light, Map & Inst. Flood (L.H. Doorpost)	0700149	0.1	22.5
230-A	Strobe Light Installation - Wing Mounted Power Supply (Each Tip Rib - Wing)(2) Light and Lens Assys (2)	0701037	0.5	30.5
		C622007-0101	2.6*	44.4*
		C622006-0101	2.3	46.7
			0.3	42.0
240-A	Oil Quick Drain Valve (Net Change)	1256011	0.0	-
241-A	Oil Drain System, Remote (Net Change)	1656002	1.0	-3.0
242-A	Oil Dilution System	0756017	2.0	-1.0
243-A	Oxygen System, 48 ft ³ Capacity, 6-Port Oxygen Bottle (Empty)	0710640	34.5*	105.0*
	48 ft ³ (1800 psi) Oxygen @ 0.0832 lb/ft ³	C166001-0601	22.4	112.0
	Oxygen Masks - Stowed (Set of 6)		4.0	112.0
244-A	Photographic Provisions	0710001	1.5	14.0
245-A	Priming System - 2 Point	0716134	10.5	82.0
246-A	Rings, Airplane Hoisting	0700612	1.0	10.0
247-A	Rings, Cargo Tie-Down (Set of 6)	1201039	1.0	49.1
250-A	Spray Tank & Pump Instl., Belly Mounted Sorensen 151 Gallon Capacity Tank	0700222-1	1.5	94.0
	Tank Attach Straps & Release Mechanism	24-95A	143.6*	50.8*
	Sorensen Spray Pump, Valve & Mount Assy	24-11, 24-96	82.5	68.3
	Sorensen 6 Blade 15 Inch Pump Fan	4000, 6-30	7.2	66.7
	Fairings, Tank Nose (Set of 2)	7-10	32.5	17.8
	Spray Controls & Cables, Window Mounted	24-62	3.5	6.4
	Misc. Attachments, Clamps & Hoses	24-61	2.3	19.0
			12.1	32.5
			3.6	38.6
251-A	Spray Boom Instl., Wing Mounted Streamlined Spray Booms (Set of 4)	0709101-1	36.3*	41.8*
	Spray Nozzles (Set of 30)	24-24-1, -2	19.8	43.0
	Boom to Wing & Strut Braces (Set of 6)	TeeJet 8355	7.2	40.0
	Wing Clamp Bands (Set of 4)	24-12, 24-15	3.4	43.0
	Misc. Strut Clamps, Plugs & Connectors	24-18, 24-19	2.5	48.0
			3.5	32.6
NOTE: Normal Category operations are prohibited when Item 251-A Wing Mounted Spray Booms are installed.				
252-A	Stabilizer Abrasion Boots (Set of 2)	0500041	1.5	206.0
253-A	Static Discharger (Set of 7)	0700160-2	0.0	-
254-A	Static Source, Alternate	0701032-1	0.3	13.7
255-A	Step & Handle, Refueling Assist (Set of 2)	0700131-1	1.6	16.6
256-A	Stretcher (Boxed) (Portable)	0700164	(Use actual weight and arm change)	
257-A	Sun Visors (Two)	0500040	0.8	32.8

ISSUED: 20 Sept. '72 REVISED: Page Revised 24 Oct. '73



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL A185F (1973)

WICHITA, KANSAS

ITEM NO ▶	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
260-A	Vacuum System (Engine-Driven)	0706001	6.2	-1.4
261-A	Wings, Extended Range 84 Gallon Capacity, Requires Item 213-A Fuel Selector (Set of 2)	0720015 Net Change)	7.0	46.5
262-A	Winterization Kit (FK-85-98) Front Covers, Installed Arm Shown	0700329-2	1.2*	-30.2*
263-A	Wing Leveler Partial Instl. (for complete system see Item 402-A) Wing Servo (2) Misc. Hardware & Bellcrank Changes	0701009	0.7 3.7* 1.3	-35.0 36.4* 51.8
264-A	Windshield, Tinted, Net Change	0700183	2.4	28.1
265-A	Wire Cutter, Main Gear (Set of 2)	0713963	0.0	-
266-A	Wire Cutter, Windshield	0713963	4.0	20.0
267-A	Cable Deflector, Cabin Top to Fin	0713963	0.8	18.9
268-A	Shelf, Utility (With 2nd Row Bench Seat)	0513013	1.1 2.0	177.1 98.0
271-A	Float Installation, Edo Model 628-2960 (This item is in addition to Items 002-O, 200-A, 255-A, 273-A, and replaces 020-R and 021-R)	55770 (Edo)	(Use actual weight and arm change)	
272-A	Float Installation, Amphibian, Edo Model 597-2790 (This item is in addi- tion to Items 002-O, 200-A, 255-A, 273-A, and replaces Items 020-R and 021-R.)	42090 (Edo)	(Use actual weight and arm change)	
273-A	Floatplane Fittings, Cessna Partial (Structural Reinforcement)	0710010	18.5	57.0
274-A	Ski Installation - Wheel Replacement (Replaces Item 020-R) (Flui-Dyne) Main Ski Model A3500A, Tail Ski, Model CT3200	11G1561 (Flui-Dyne)	(Use actual weight and arm change)	
275-A	Wheel Ski Installation, Hydraulically Actuated (Flui-Dyne) Main Ski Model C3200, Tail Ski Model CT3200 (Item 020-R required)	11G1560 (Flui-Dyne)	(Use actual weight and arm change)	
276-A	Wheel Ski Installation, Manually Actuated (Flui-Dyne) Main Ski Model C-3200, Tail Ski Model CT3200 (Item 020-R required)	11G1562 (Flui-Dyne)	(Use actual weight and arm change)	
277-A	Wheel Ski Installation, Hydraulically Actuated (Flui-Dyne) Main Ski Model C3600, Tail Ski Model CT3200 (Item 020-O required)	11G1550 (Flui-Dyne)	(Use actual weight and arm change)	

ISSUED: 20 Sept. '72

REVISED:

SHT 5 OF 11



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL A185F (1973)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS	
280-A	Seat, Adjustable Fore and Aft Co-Pilot	1200605	13.0	44.0	
280-A-1	Seat, Articulating Vertical Adj. Co-Pilot	0515001	21.0	41.5	
281-A	Seat Assy, 2nd Row 2-Place Bench	0715018	21.0	72.0	
281-A-1	Seat Assys, 2nd Row Individual Stowable (Set of 2)	0711703	19.0	72.0	
282-A	Seat Assy, 3rd Row 2-Place Bench	0711097	5.0	100.0	
282-A-1	Seat Assy, 3rd Row Foldaway Child	0501009-4	7.6	101.5	
284-A	Belt & Shoulder Harness Assy, Co-Pilot	S-2070-3	2.0	37.0	
285-A	Belt, 2nd Row Lap (Set of 2)	S-1746-27	2.0	73.0	
285-A-1	Belt & Shoulder Harness Assy, 2nd Row (Set of 2)	S-2070-2	4.0	73.0	
286-A	Belt, 3rd Row Lap (Set of 2)	S-1746-6	2.0	97.0	
286-A-1	Belt & Shoulder Harness Assy, 3rd Row (Set of 2)	S-2070-15	4.0	97.0	
286-A-2	Belt, 3rd Row Lap (for Foldaway Child Seat Item 282-A-1)	S-1746-5	0.9	97.0	
<p>NOTE: The installation weight per individual seat or belt assembly is shown above. See also Items 030-R through 032-S for pilot seats and belts. For complete seating installation, include one seat belt (or seat belt and shoulder harness assembly) for each occupant for whom seating is installed. See examples below. (Item 400-A through Item 400-A-3 Typical Seating Arrangements). Several combinations of seating utilizing 1st Row Non-Vertical Adjusting Seats and Lap Belts only in 2nd and 3rd rows are listed.</p>					
290-A	Aileron-Rudder Interconnect (stowed) (Floatplane)(Installed arm shown)	0742001	1.1	77.1	A
291-A	Rudder Centering Spring Instl. (stowed) (Floatplane)(Installed arm shown)	0742004-1	0.5	181.9	A
292-A	Ventral Fin (Stowed)(Floatplane) (Installed Arm Shown)	0712674-1	1.8	206.0	A
Seating Arrangements, Typical (Net Change)					
400-A	2-Place Pilot & Co-Pilot		15.0	43.1	
400-A-1	4-Place 2nd Row 2 Place Bench Seat		38.0	60.6	
400-A-2	6-Place 2nd Row Individual Stowable & 3rd Row Foldaway Child Seat		44.5	67.8	
400-A-3	6-Place 2nd Row Individual Stowable & 3rd Row 2-Place Bench Seat		43.0	66.4	
401-A	Primary Group (FK-85-37E)		4.5*	24.7*	
	017-O Sensitive Altimeter		1.0	15.0	
	017-R Standard Altimeter (delete)		-0.8	15.5	
	203-A Clock		0.7	48.5	
	214-A OAT Gage		0.1	28.5	
	225-A Vertical Speed Indicator		0.9	15.0	
	229-A Map Light - Door Post Mounted		0.5	22.5	
	257-A Sun Visors		0.8	33.0	
	226-A Turn Coordinator		1.3	15.7	

ISSUED: 20 Sept. '72

REVISED: 25 Oct. '72 =A

SHT 6 OF 11



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL Al85E (1973)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS	
401-A-1	Primary Group - for use with 300 Nav-O-Matic of Wing Leveler (FK-85-37F)		3.2*	28.4*	A
	400-A Standard Primary Group		4.5	24.7	
	226-A Turn Coordinator (delete)		-1.3	15.7	
402-A	Wing Leveler Installation (FK-85-129B)	0701009	13.0*	13.3*	A
	263-A Partial Installation		3.7	36.4	
	Turn Coordinator		2.8	14.9	
	260-A Vacuum System		6.2	-1.4	
403-A	Floatplane Kit, Std. Tanks (FK-85-18N)	0742000	36.3*	63.5*	A
	002-0 Propeller - Net Change		0.2	-40.2	
	200-A Cowl Deck V-Brace		2.7	25.0	B
	201-A Corrosion Resistant Cables		0.0	-	
	205-A Corrosion Proofing - Internal		7.0	72.0	
	213-A Fuel Tank Selector Valve		1.4	42.0	
	246-A Hoisting Rings, Airplane		1.0	49.1	
	255-A Refueling Step and Handle		1.6	16.6	
	273-A Floatplane Fuselage Reinforcements		18.5	57.0	
	290-A Aileron-Rudder Interconnect		1.1	77.1	A
	291-A Rudder Centering Springs		0.5	181.9	A
	292-A Ventral Fin		1.8	206.0	A
403-A-1	Floatplane Kit, Long Range Tanks (FK-85-18P)		38.3	62.4	B
404-A	24 Volt Electrical System - Net Change (Major Components Listed)	0770077	0.6*	304.3*	
	Add: Alternator - 28V, 60 Amp	C611503-0101	10.7	-3.5	
	Starter - Prestolite MHJ4002		16.5	-4.0	
	Battery - 24V	0870060	27.9	114.0	
	Alternator Output Regulator	C611002-0102	0.7	-0.5	
	Overvolt Sensor System		0.6	0.9	
	Battery Box - Net Change		0.4	114.0	
	Delete: Alternator 14V, 60 Amp	C611501-0102	-10.8	-3.5	
	Starter - Prestolite MCL6501		-17.8	-4.0	
	Battery 12V, 33 A.H.	0712605-1	-26.6	114.0	
	Alternator Output Regulator	C611001-0101	-0.8	-1.0	
	Overvolt Sensor System	C593001-0101	-0.2	-15.0	
405-A	AgCarryall Kit Normal Category (Consists of the following:)	0700259-6	192.8*	51.0*	
	020-0 Wheels & Tires Oversize (Net Change)		6.1	21.2	
	030-0-1 Exterior Styling (Net Change)		9.7	91.2	
	204-A Dual Controls		5.5	14.0	
	205-A Corrosion Proofing		7.0	72.0	
	250-A Spray Tank & Pump Installation		143.6	50.8	
	265-A Wire Cutters - Main Gear		4.0	20.0	
	266-A Wire Cutters - Windshield		0.8	18.9	
	267-A Cable Deflector		1.1	177.1	
	280-A Co-Pilot Seat		13.0	44.0	
	284-A Co-Pilot Belt & Shoulder Harness		2.0	37.0	
406-A	AgCarryall Kit - Restricted Category (Consists of the following:)		229.1*	49.5*	
	405-A AgCarryall Kit - Normal Category		192.8	51.0	
	251-A Spray Boom Instl.		36.3	41.8	

ISSUED: 20 Sept. '72

REVISED A=25 Oct. '72, B=3 Nov. '72

SHT 7 OF 11



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL A185E (1972)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
500-A	Nav-O-Matic 300 (With Item 216-A) Controller Amplifier and Mount Gyro Installation (Item 216-A) Omni Coupler Turn Coordinator (Item 226-0-1) Vacuum System (Item 260-A) Wing Installation Items Servo Actuator - Roll Misc. Parts and Wiring	0770096-2 0701005-2 28900 1200166-1	25.3* 1.5 6.8 0.8 1.9 6.2 3.3 3.5	23.7* 15.0 12.7 12.7 14.5 -1.4 68.9 60.5
510-A	Electronic Option A Nav-Com Provisions Antenna & Cable VHF Communication Antenna & Cable VOR Nav Audio Junction Box Headset Installation Microphone Installation - Hand Held Speaker Installation, Cabin Circuit Breaker	0770400-14 0770400-629 0770400-623 0770400-734 0770400-703 0770400-701 0770400-713 S-1360-10	4.7* 0.4 1.6 0.3 0.1 0.6 1.5 -	78.5* 62.9 165.0 11.8 18.8 16.9 37.6 16.7
511-A	Electronic Option B Left VHF Com Antenna Antenna	0770400-628 C598501-0104	0.4* 0.4	62.9* 63.0
512-A	Electronic Option C ADF Antenna Provisions 300 ADF Loop Antenna Cable (ARC) 300 ADF Sense Antenna Cable Assy	0770400-36 33827-0000 2070000-256	1.2* 0.6 0.2	20.5* 20.0 20.0
513-A	Electronic Option D Nav-O-Matic Wing Prov.	1200166	0.7	69.7
514-A	Electronic Option E Anti-Precip ADF Ant.	0770400-634	0.9	95.1
520-A	Antenna and Cable Instl. VHF Com	0770400	1.2	42.8
521-A	Antenna Instl., VOR Nav	0770400-623	1.6	165.0
522-A	Antenna Instl., ADF Anti Precip Net Change	0770400	0.7	95.3
523-A	Antenna Coupler and Cables	0770400-635	0.5	5.0
524-A	Audio Isolation Amplifier (KA-25C)	0770400-714	1.5	1.0
525-A	Audio Junction Box	0770400-734	0.3	11.8
526-A	Audio Muting Relay	0770400-752	0.1	13.5
527-A	Headset Installation (0770039-1)	0770400-703	0.1	18.8
528-A	Microphone Installation, Hand Held	0770400-701	0.6	16.9
529-A	Microphone Instl., Doorpost Mounted Boom	0770400-750	0.8	27.0
530-A	Radio Cooling System - Each Unit Instl.	0770400	0.2	8.0
531-A	Radio Selector Switches & Wiring	0770400	0.5	16.5
532-A	Remote Radio Rack		0.7	124.0
533-A	Speaker Installation, Cabin	0770400-713	1.5	37.6

ISSUED: 20 Sept. '72

REVISED:

SHT 8 OF 11



EQUIPMENT LIST (CONT'D)
MODEL A185F (1973)

CESSNA AIRCRAFT CO

WICHITA, KANSAS

ITEM NO ▶	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
550-A	Cessna 300 ADF (546A or 546E)	0770400-193,194	7.9*	20.3*
	R-546A Receiver or	41240-1001	3.3	12.5
	R-546E Receiver with BFO	41240-0101	3.3	12.5
	M-346A Mounting Box	40900-0000	0.5	12.5
	IN-546 Indicator	41250-1001	0.9	16.0
	L-346A Antenna, Fixed Loop	41000-1000	1.4	39.3
	Sense Antenna Installation	0770400-639	0.2	94.8
551-A	Cessna 300 DME (KN-60C)	0770400-82	8.5*	22.0*
	KN-60C Transceiver 066-1020-20	C582602-0301	6.1	11.5
	Mounting Box		0.6	11.5
552-A	KA-32 Antenna	0770400-616	0.3	93.3
	Cessna 300 Marker Beacon (502B)	0770400-192	2.7*	41.6*
553-A	R-502B Receiver	31240-0014	1.0	12.2
	Antenna, "L" Shaped Rod	0770681-1	0.4	142.5
	Cessna 300 Nav-Com 100 Channel (508A)	0770400-196	9.2*	12.3*
554-A	RT-508A Receiver Transmitter	39360-1014	6.7	12.0
	Mounting Box	40550	0.8	12.0
	IN-514R VOR Indicator	31640-0000	0.9	16.8
	Cessna 300 Nav-Com 360 Ch. (328A & IN514R)		9.7*	12.3*
555-A	RT-328A Receiver Transmitter	41740-1114	7.1	12.0
	Mounting Box	40550-0000	0.8	12.0
	IN-514R VOR/LOC Indicator	31640-0000	0.9	16.8
	Cessna 300 Nav-Com 360 Ch. (328A & IN525A)		9.8*	12.3*
556-A	RT-328A Receiver Transmitter	41740-1114	7.1	12.0
	Mounting Box	40550-0000	0.8	12.0
	IN-525A Indicator	32350-0000	1.0	16.8
	Cessna 300 Nav-Com 360 Ch.(528E & IN-514R)	0770400-197	9.9*	12.3*
557-A	RT-528 Receiver Transmitter		7.3	12.0
	Mounting Box	40550	0.8	12.0
	IN-514R VOR/LOC Indicator	31640-0000	0.9	16.8
	Cessna 300 Nav-Com 360 Ch. (528E & IN525A)	0770400-197	10.0*	12.3*
558-A	RT-528E Receiver Transmitter		7.3	12.0
	Mounting Box	40550	0.8	12.0
	IN-525A VOR/ILS Indicator	32350-0000	1.0	16.8
	Cessna 300 HF Transceiver (PT-10A)	0770400-162	21.0*	84.6*
	PT-10A Transceiver	C582103-0101	4.2	11.2
558-A	Mounting Box			
	PT-10PS-14 Remote Power Supply	C582103-0201	8.6	117.1
	DX-10RL-14 Antenna Load Box	C589502-0101	4.2	110.1
	351 Inch Long Antenna Wire Instl.	0770400-614	0.3	127.7



EQUIPMENT LIST (CONT'D)

CESSNA AIRCRAFT CO

MODEL A185F (1973)

WICHITA, KANSAS

ITEM NO	DESCRIPTION	REF DRAWING	WT LBS	ARM INS	
559-A	Cessna 300 VHF Transceiver (524A)	0770400-49	8.0*	11.1*	
	RT-524A Transceiver	31390-1114	6.7	11.5	
	M-514R Mounting Box	30420-0000	0.7	11.5	
560-A	Cessna 300 Transponder (KT-76 or KT-78)	3901000	4.8*	40.4*	
	KT-76 Transceiver (High Altitude)	C589520-0101	2.8	12.5	
	KT-78 Transceiver (Low Altitude)	C589520-0104	2.8	12.5	
	KA-48 Antenna 071-1048-00	C589508-0101	0.1	126.0	
570-A	Cessna 400 Glideslope (443A)	3910119-5	5.4	100.2	B
571-A	Cessna 400 ADF (Includes Antennas)	0770400-195	7.9	20.3	B
572-A	Cessna 400 Nav-Com W/IN442A (VOR/LOC)	3910121-29	16.2	47.2	B
573-A	Cessna 400 Nav-Com W/IN443A (VOR/ILS)	3910121-31	16.2	47.2	B
574-A	Cessna 400 Transponder (Includes Ant.) (506A)	3910101	8.5	88.0	B
575-A	Cessna 400 VHF Transceiver	3910124-3	10.2	65.2	B
580-A	Emergency Locator Transmitter	0770134	2.4*	119.0*	
	Transmitter (C589510-0102)		2.1	118.0	
	Antenna (C589519-0103)		0.1	137.0	
581-A	Sunair SSB, HF Transceiver (ASB-125)	0770400-162	24.6*	83.4*	
	RE-1200 Single Side Band Transceiver	99680	4.5	11.5	
	Mounting Box		0.8	11.5	
	PA-1010A Remote Power Amplifier	99682	8.5	117.2	
	CU-110 Antenna Coupler	99816	5.2	110.1	
	351 Inch Active Length Antenna Wire	0770400-611	0.3	127.7	
ISSUED: 20 Sept. '72		REVISED: B= 3 Nov. '72		SHT 10 OF 11	



EQUIPMENT LIST (CONT'D)
MODEL A185F (1973)

CESSNA AIRCRAFT CO

WICHITA, KANSAS

ITEM NO ▶	DESCRIPTION	REF DRAWING	WT LBS	ARM INS
<u>INSTRUCTIONS FOR USING RADIO EQUIPMENT LISTINGS:</u>				
Complete radio installations require certain supporting equipment in addition to the individual radio items listed. The following installation examples and notes should be used as a guide in the determination of complete installations.				
1.	First Unit Cessna 300 Nav-Com 360 Channel with VOR/ILS Indicator Complete Installation Consists of Items: 555-A Cessna 300 Nav-Com 360 Ch. (328A & IN-525A) 520-A Antenna & Cable, Left VHF Communications 521-A Antenna & Cable, VOR Navigation 525-A Audio Junction Box 527-A Headset Installation 528-A Microphone Installation, Hand-Held 530-A Radio Cooling Installation 533-A Speaker Installation, Cabin		15.3*	33.3*
2.	Second Unit Cessna 300 Nav-Com 100 Channel with VOR Indicator Complete Installation. Consists of Items: Cessna 300 Nav-Com 100 Ch. (508A) 520-A Antenna & Cable, Right VHF Communication 523-A Antenna Coupler & Cables, VOR 526-A Audio Muting Relay 530-A Radio Cooling Installation 531-A Radio Selector Switches and Wiring		11.7*	15.2*
3.	Second Unit Cessna 300 ADF with BFO Complete Installation Consists of Items: 550-A Cessna 300 ADF (546-A or 546-E) 526-A Audio Muting Relay 531-A Radio Selector Switches and Wiring		8.5*	20.0*
4.	Third Unit Cessna 300 Marker Beacon Receiver Complete Installation. Consists of Item 552-A only.		2.7	41.6
5.	Fourth Unit Cessna 400 Glideslope Receiver Complete Installation. Consists of Item 570-A only.		5.4	100.2
<u>NOTES:</u>				
1. Item 524-A (KA-25C Audio Isolation Amplifier) is required for all multiple radio installations not incorporating a "Cessna Crafted" VHF or HF.				
2. All panel mounted transmitters require Item 530-A (Radio Cooling System).				
3. Item 532-A (Remote Radio Rack) is required for all remote installation - if more than 2 remote units are used (Antenna Load Box not included) a second rack must be included with the 3rd remote unit installation weight.				
ISSUED: 20 Sept. '72 REVISED: B = 3 Nov. '72			SHT 11 OF 11	

B

CESSNA AIRCRAFT COMPANY

WICHITA, KANSAS

MODEL A185F

REVISED WEIGHT & BALANCE DATA

Aircraft Serial No. 18502213 F.A.A. Registration No. N3946Q Date: 5/19/73

ITEM	Weight (lbs.)	X C.G. Arm (inches)	= Moment (lb.ins.)
ORIGINAL LICENSED EMPTY WEIGHT	1845.3	38.0	70202
ADD LESS OPTIONAL EQUIPMENT WEIGHT	12.2	15.1	184
REVISED LICENSED EMPTY WEIGHT	1857.5	37.9	70386

GROSS WT. - LICENSED EMPTY WT. = USEFUL LOAD
(3350.0 LBS) (1857.5 LBS) 1492.5 LBS 158.2

INSTALLED REMOVED	Weight (lbs.)	Moment (lb.ins.)
300 Navcom 360CH W/VOR/LOC 2nd	12.2	184

SUPERSEDED

Date 4-23-74

Signature WJA

CESSNA AIRCRAFT COMPANY

WICHITA, KANSAS

Weight & Balance and Installed Equipment Data

221497-73D
CAD

CONTROL NUMBER	DATE	MODEL	REGISTRATION NUMBER	CESSNA SERIAL NUMBER
305271	04/17/73	185	N3946Q	18502213

ITEM	WEIGHT	ARM	MOMENT
STANDARD AIRPLANE (EMPTY, DRY, UNPAINTED) COMPUTED	1594.0	36.0	57384
INCLUDES EQUIPMENT ITEMS REQUIRED FOR FAA CERTIFICATION			
UNUSABLE FUEL 6.0 GALLONS	36.0	46.0	1656
ALLOVER EXT 355A TIGER YELLOW/VES WHITE	11.1	95.2	1057
INT AP CLOVE BROWN PERFORATED VINYL/BROWN	NEGL.		
300 NAVCOM 360CH W/VOR/LOC 1ST RT328A	15.2	33.4	508
300 ADF WO/BFO - DIGITAL TUNING 2ND R546	8.5	20.0	170
300 TRANSPONDER-LOW ALTITUDE KT78	4.8	40.4	194
GYROS NEW INCLUDES VACUUM SYSTEM	12.3	6.0	74
INDICATOR ECONOMY MIXTURE	1.0	6.0	6
INDICATOR TURN AND BANK EXCH	.7	13.7	10
RECORDER FLIGHT HOUR	.8	11.6	9
CARGO PACK	37.0	60.5	2239
CONTROLS DUAL INCL DISENGAGING RH RUDDER PEDALS	5.5	14.0	77
CONTROL WHEEL ALL PURPOSE EXCH	NEGL.		
DETECTORS NAVIGATION LIGHTS	NEGL.		
FILTER OIL FULL FLOW	4.5	4.0-	18-
FLOATPLANE KIT INCL CP&CR CABLES	38.3	62.4	2390
FUEL SYSTEM EXTENDED RANGE EXCH	7.0	46.5	326
GROUND SERVICE PLUG RECEPTACLE	2.6	111.0	289
GROUP PRIMARY	4.5	24.7	111
HEATED PITOT EXCH	.5	26.5	13
LIGHTS COURTESY SET OF TWO	.5	61.9	31
LOCATOR BEACON	2.4	119.0	286
MICROPHONE BOOM	.8	27.0	22
OIL COOLER LARGE NON-CONGEALING EXCH	2.3	31.5-	72-
PRIMING SYSTEM ENGINE	1.0	10.0	10
SEATING ARRANGEMENT D	6.0	69.0	414
SEAT FRONT LH STD	NEGL.		
SEAT FRONT RH ARTICULATING VERT ADJ EXCH	21.0	41.5	872
SEATS 2 INDV CNTR & ONE 2-PLACE REAR FOLD-AWAY DSN	24.0	77.8	1867
STABILIZER ABRASION BOOTS	1.5	206.0	309
STATIC DISCHARGERS SET OF SEVEN	NEGL.		
STATIC SOURCE ALTERNATE	.3	13.7	4
TIRES MAIN GEAR 600X6	NEGL.		
WINDOWS ALL TINTED EXCH	NEGL.		
VALVE OIL QUICK DRAIN	NEGL.		
WINTERIZATION KIT ENGINE	1.2	30.2-	36-
LICENSED EMPTY WEIGHT	1845.3	38.0	70202
GROSS WEIGHT 3350.0 LICENSED WEIGHT 1845.3 USEFUL LOAD	1504.7		

GEN-AERO, INC.
 GENERAL AERONAUTICS
 P. O. BOX 16217 · SAN ANTONIO, TEXAS 78246
 TELEPHONE AREA 512 824-2313
 INTERNATIONAL AIRPORT

DATE April 23, 1974

REVISED

N 3946Q

MODEL Cessna A185F

WEIGHT & BALANCE

S/N 18502213

WEIGHT COMPUTATION

ITEM	WEIGHT	ARM	MOMENT
Licensed Empty Weight	1857.5	37.9	70386.00
WEIGHT REMOVED			
Cessna 300 Nav Com	- 15.2	+ 33.4	- 508.00
WEIGHT ADDED			
King KX-175B Nav com	8.0	12.0	96.00
King KNI-520 Indicator	3.2	16.8	54.00
King KN-73 Glideslope	2.0	115.0	230.00
King KN-74 R-Nav	4.2	12.0	50.00
King KR-21 Marker	1.0	17.0	17.00
King KN-65 DME	9.5	112.0	106.00
Gyro Horizon & Directional (Co-pilot)	6.1	12.5	76.00
Audio Control Panel	1.5	14.0	21.00
Custom Instrument Panel	<u>Negl.</u>		
	1877.8		<u>70528.00</u>

Licensed Empty Weight 1877.5
 C.G. 37.5
 Useful Load 1472.2

465
1114.5

GEN-AERO, INC.

CRS 3844

Mike J. Swafford

Mike J. Swafford

bw



SALES & SERVICE

"SPECIALIZING" IN AIRBORNE ELECTRONICS · FAA CERTIFIED REPAIR STATION #3844

DATE June 18, 1980



WEIGHT AND BALANCE SHEET

ROBERTSON AIRCRAFT CORPORATION Renton Municipal Airport, 839 West Perimeter Road,
Renton, Washington 98055, (206) 228-5000, Cable RSTOL

Aircraft Mfg. Cessna Model A185F N 3946Q Serial # 18502213

Empty C.G. Computation.

<u>Item</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Aircraft Empty	1883.0	37.62	70850.4
Weight Increase	13.0	60.00	780.0
TOTALS	1896.0		71630.4

Total Moment 71630.4 = 37.77 Empty C.G.
Total Weight 1896.0

New Empty Weight 1896.0
 New Useful Load 1454
 New Empty C.G. 37.77
 Maximum Takeoff Weight 3350
 Maximum Landing Weight 3350


 Signature David M. Davis

ARS 415-23

A & P No.



WESTERN AVIONICS

at the Palo Alto Airport

1903 EMBARCADERO ROAD • PALO ALTO, CALIFORNIA 94303 • (415) 493-3526
REPAIR STATION No. 402-62

OWNER Paul Mennen
TYPE C 185
REG. No. N 3946Q

DATE 8-6-86
S/N 18502213
W/O 7221

FOLLOWING EQUIPMENT ADDED OR REMOVED AS SHOWN

Removed ITEMS	WEIGHT	ARM	MOMENT
CESSNA 30 NAVCOM SYSTEM	- 8.0	12.3	- 98.40
CESSNA ADF SYSTEM	- 7.9	20.3	- 160.37
KX175B TRANSCIVER	- 3.0	12.0	- 36.00
KN152C INDICATOR	- 3.2	16.8	- 54.00
KN73 G/S Receiver	- 2.0	15.0	- 30.00
GYRO- VAC DRIVEN	- 3.1	12.5	- 39.75
AUDIO CONTROL PANEL	- 1.5	14.0	- 21.00
- ADDED -			
2 KY155 VHF TRANSCIVERS	10.6	12.0	127.2
1 KI209 INDICATOR	1.2	12.0	14.4
M-1 LORAN C Receiver	4.2	12.0	50.4
1 KI-525A INDICATOR	3.9	7.8	30.4
1 KG102A GYRO	4.3	163.0	700.9
1 KASR SLAVE METER	0.3	12.0	3.6
1 KMT112 FLUX GATE COMPASS	0.3	37.5	11.3
1 KQYA 2VHF AUDIO PANEL	1.7	12.0	20.4
1 KA33 COOLING FAN ASSY	1.3	14.0	18.2
1 KA120 ADAPTER	1.2	1.5	1.8
1 C112152 ANTENNA w/connector	1.6	42.8	68.5

*Superseded 9-26-87
see back of this sheet.*

NEW MOMENT 72354.8

NEW EMPTY WEIGHT 1895.9

NEW USEFUL LOAD 1454.1

NEW EMPTY C.G. 38.16

Note - This document
supersedes W/BAL
DATA of 9/19/83

SIGNATURE Paul J. Hoyer

Old empty wt	1895.9	arm	38.16	moment	72354.8
ldg gear attach bit	+ 2.16		23.5		50.76
	<u>1898.06</u>				<u>72405.56</u>

new empty wt. 1898.06
 new empty CG 38.15
 new useful load 1451.9

Vern R. Miller
 ADP 1938774
 9-26-87

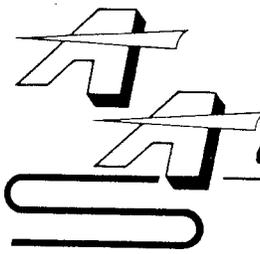
Supermarket
 1-72-88
 Planning Dept 11/63V

AMENDED WEIGHT AND BALANCE WITH EQUIPMENT LIST CHANGES

A/C Manufacturer <i>CESSNA</i>	Model <i>A185F</i>	Serial Number <i>02213</i>	Registration Number <i>N3946Q</i>
Registered Owner <i>PAUL MENNEN</i>		Supersedes Weight & Balance Dated <i>1-22-88</i>	
		Name & Number of Recorder <i>Kern B. Miller HAP 19387</i>	
Net Weight Change	Net Change C.G.	Change Date <i>10-7-88</i>	
Previous Weight <i>1905.06</i>	Previous C.G. <i>38.08</i>	Previous Moment <i>72553.96</i>	
New Empty Weight <i>1907.56</i>	New C.G. <i>38.12</i>	New Moment <i>72717.79</i>	

R/I	MODEL	MAKE	FUNCTION	WEIGHT (Pounds)	ARM (Inches)	MOMENT (Inch-Pounds)
<i>1</i>		<i>PAUL DAVIDS</i>	<i>FLAP GAP SEALS</i>	<i>2.5</i>	<i>65.53</i>	<i>163.825</i>
<i>1</i>		<i>EAGLE AVIATION</i>	<i>HEADER TANK FUEL DRAIN</i>	<i>NO</i>	<i>CHANGE</i>	
<i>1</i>	<i>BAS110</i>	<i>BRACKET</i>	<i>AIR FILTER</i>	<i>NO</i>	<i>CHANGE</i>	
<i>1</i>		<i>BAS</i>	<i>SEATBELT / SHOULDER HARNESS</i>	<i>NO</i>	<i>CHANGE</i>	

Superseded 10-3-91



Advanced Aviation Services, Inc.

AVIONICS • INSTRUMENTS • AUTO PILOTS

1144 COLEMAN AVENUE
SAN JOSE, CA 95110
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(408) 292-0517
(408) 292-0518

FAA Repair Station No. 402-30

10-3-91

REVISED EQUIPMENT LIST N3946Q CESSNA 418SF S/N 18502213

	WT. (lb.)	ARM	MOMENT
INSIGHT STRIKE FINDER			
INDICATOR	1.2		
ANT/CABLE	1.0	14.0	16.8
		44.0	44.0
MASTER ENGINE ANALYZER			
INDICATOR	1.0		
PROCESSOR	1.0	16.0	16.0
PROBES/TRANSDUCER	1.0	14.0	14.0
		-30.0	-30.0

TOTAL CHANGE: 5.2 lb

+60.8
inch-lb.

~~NEW FW = 1910.26~~
~~NEW ULZ = 1439.74~~
~~NEW CG = 38.01~~
~~NEW MOM = 72014.76~~

OLD EMPTY WEIGHT: 1907.56 lb.

NEW EMPTY WEIGHT: 1912.76 lb.

OLD MOMENT: 72717.79 Inch-lb.

NEW MOMENT: 72778.59 Inch-lb.

OLD CG: 38.12"

NEW CG: 38.05"

GROSS WEIGHT: 3350

NEW USEFUL LOAD: 1437.24

Tornado Alley Turbo, Inc.
Weight and Balance Addendum

Date: 10 FEB 02

AIRCRAFT: MAKE CESSNA MODEL 185F N 3946Q S/N 18502213

SUPERSEDES PREVIOUS WEIGHT & BALANCE DATED: 06/10/92

ORIGINAL EMPTY WEIGHT	ORIGINAL ARM	ORIGINAL MOMENT
1914.76	38.13	73,011.24

ITEMS ADDED / REMOVED	WEIGHT CHANGE		
	WEIGHT (LBS.)	ARM (INCHES)	MOMENT
CYCLONE TURBO SYSTEM INSTALL	67.00	-15.90	-1,065.30
KOSOLA ENGINE MOUNT UPGRADE	5.10	-6.70	-34.17
HARTZELL PROP PHC-C3YF-1RF/F7691	72.00	-29.50	-2,124.00
REMOVED 2 BLADE PROP	-60.00	-29.50	1,770.00
REMOVE IO-520-D ENGINE	-473.00	-16.00	7,568.00
ADDED IO-550-D ENGINE	463.20	-16	-7,411.20
ADDED JPI TIT AND RPM MONITORS	2.00	12.2	24.40

NEW EMPTY WEIGHT	NEW CENTER OF GRAVITY	NEW MOMENT
<u>1991.06</u>	<u>36.03</u>	<u>71,738.97</u>
NEW USEFUL LOAD	GROSS WEIGHT	
<u>1358.94</u>	<u>3350.00</u>	

MECHANIC *LO Landolt*

CERTIFICATE NO. *ALP 2651512*

