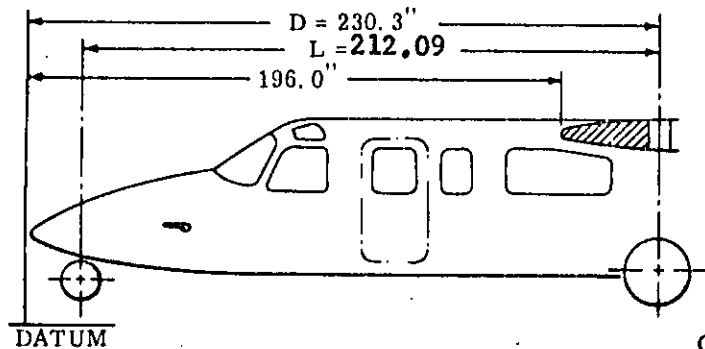


AIRCRAFT WEIGHT AND BALANCE REPORT

AIRCRAFT AS WEIGHED DATA

CONDITION: FUEL Unusable OIL Full

AIRCRAFT MUST BE LEVEL WHEN WEIGHED



SCALE READINGS

REACTION		WEIGHT	TARE	NET
Nose Wheel	F	474.	—	474
Left Main Wheel		3,199.	—	3,199
Right Main Wheel		3,192.	—	3,192.
Total Weight	W	6,865.	—	6,865.

AS WEIGHED C. G.

$$C.G. = D - \frac{(F \times L)}{W}$$

$$C.G. = 230.3 - \frac{(474)(212.09)}{(6,865)} = 215.66$$

AIRCRAFT WEIGHT AND CENTER OF GRAVITY CALCULATIONS			
ITEM	WEIGHT	ARM	MOMENT
Acft. As Weighed <u>7 - 19 - 76</u> Per. W.R.O. <u>P3537</u> Rev. <u>Orig.</u>	6,865.	215.66	1,480,506.
Install Ballast Per AeroComm. Dwg. 830118-501	17.	487.	8,279.
-Drainable Oil	-21	188.0	-3,948
Corrected Empty Weight	6,861.	216.42	1,484,837.
-Undrainable Oil	-4.0	188.0	-752
-Unusable Fuel	-31.0	231.0	-7,161
-Hydraulic Fluid	-31.0	279.2	-8,655
Dry Empty Weight (Equipped)	6,795.	216.08	1,468,269.

$$USEFUL\ LOAD = 10,300 - 6,861. = 3,439. \text{ LBS}$$

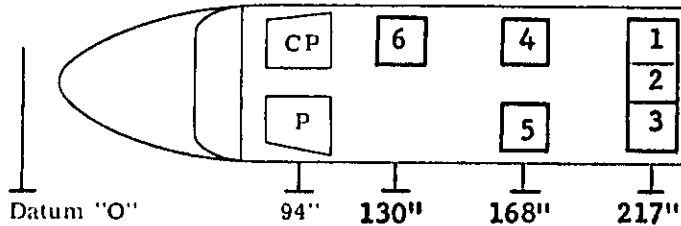
LOADING SUB-TOTAL			
ITEM	WEIGHT	ARM	MOM/1000
Corrected Empty Weight	6,861.	216.42	1,485.
+Drainable Oil	21	188.0	4
+Pilot Weight	170	94.0	16
Loading Sub-Total	7,052.	213.42	1,505.

NOTE: It is the responsibility of the aircraft owner and the pilot to ensure that the aircraft is loaded properly. The corrected empty weight, corrected empty weight C. G. and useful load are noted on this page for this aircraft as delivered from the factory. If the aircraft has been altered, refer to the latest approved Repair and Alteration Form (ACA-337) and/or the Airframe Log Book for revisions to this report.

AIRCRAFT WEIGHT AND MOMENT TABLES

LOADING CALCULATION TABLES
(TO BE ADDED TO LOADING SUB-TOTAL)

Factory recommended passenger locations.



SEATING PLAN "A"

SEAT NO.	WT.	MOM/1000
CP	170	16
1.	170	37
2.	170	37
3.	170	37
4.	170	28
5.	170	28
6.	170	22

BAGGAGE		LOADING SCHEDULE (Example)		
WT.	MOM/1000	ITEM	WT (LB)	MOMENT/1000 (IN-LB)
25	6	LOADING SUB-TOTAL	7,052.	1,505.
50	13	CO-PILOT	170	16
75	19	PASSENGERS	170	37
100	26		170	37
125	32		170	37
150	39	BAGGAGE	165	43
175	45			
200	52			
225	58	WEIGHT -LESS FUEL	7,727	1,638.
250	65	TOTAL USABLE FUEL 384 Gal*	2,573	591
275	71	RAMP WEIGHT	10,300	2,229
300	77	LESS WARM-UP, TAXI, TAKEOFF	-50	-11
325	84	TAKEOFF WEIGHT	10,250	2,218
350	90	LESS FLIGHT FUEL USED(176.5G)	1,183	-264
375	97	LANDING WEIGHT	9,067	1,954
400	103			
425	109			
450	116			
475	122			
500	129			
525	135			
550	142			
575	148			
600	155			

(7.5G)

Weight Engineer - Rockwell International

[Signature] 7-19-76

FUEL WEIGHTS AND MOMENT TABLE

U. S. GALLONS	LITERS (Reference)	ARM INCHES (Datum)	FUEL DATA 6.0 Lb/Gallon		FUEL DATA 6.5 Lb/Gallon		FUEL DATA 6.7 Lb/Gallon	
			Wt. (lb)	Mom/1000	Wt. (lb)	Mom/1000	Wt. (lb)	Mom/1000
10	37.85	253.7	60	15	65	16	67	17
20	75.70	249.2	120	30	130	32	134	33
30	113.55	247.1	180	44	195	48	201	50
40	151.40	245.7	240	59	260	64	268	66
50	189.25	244.5	300	73	325	79	335	82
60	227.10	243.6	360	88	390	95	402	98
70	264.95	242.8	420	102	455	110	469	114
80	302.80	242.3	480	116	520	126	536	130
90	340.65	242.0	540	131	585	142	603	146
100	378.50	241.9	600	145	650	157	670	162
110	416.35	241.5	660	159	715	173	737	178
120	454.20	240.4	720	173	780	188	804	193
130	492.05	239.6	780	187	845	202	871	209
140	529.90	238.8	840	201	910	217	938	224
150	567.75	238.2	900	214	975	232	1005	239
160	605.60	237.7	960	228	1040	247	1072	255
170	643.45	237.2	1020	242	1105	262	1139	270
180	681.30	236.7	1080	256	1170	277	1206	285
190	719.15	236.2	1140	269	1235	292	1273	301
200	757.00	235.7	1200	283	1300	306	1340	316
210	794.85	235.1	1260	296	1365	321	1407	331
220	832.70	234.6	1320	310	1430	335	1474	346
230	870.55	234.1	1380	323	1495	350	1541	361
240	908.40	233.7	1440	337	1560	365	1608	376
250	946.25	233.3	1500	350	1625	379	1675	391
260	984.10	232.9	1560	363	1690	394	1742	406
270	1021.95	232.6	1620	377	1755	408	1809	421
280	1059.80	232.2	1680	390	1820	423	1876	436
290	1097.65	231.8	1740	403	1885	437	1943	450
300	1135.50	231.5	1800	417	1950	451	2010	465
310	1173.35	231.2	1860	430	2015	466	2077	480
320	1211.20	230.9	1920	443	2080	480	2144	495
330	1249.05	230.7	1980	457	2145	495	2211	510
340	1286.90	230.3	2040	470	2210	509	2278	525
350	1324.75	230.0	2100	483	2275	523	2345	539
360	1362.60	229.8	2160	496	2340	538	2412	554
370	1400.45	229.7	2220	510	2405	552	2479	569
384	1453.44	229.6	2304	529	2496	573	2573	591

AIRCRAFT OPERATIONAL LIMITATION										
WEIGHT AND MOMENT ALLOWABLES (OPERATION OUTSIDE MIN AND MAX VALUES IS PROHIBITED) (Gear Retraction Moment Accounted For)										
WT.	MIN. MOM/1000	MAX. MOM/1000		WT.	MIN. MOM/1000	MAX. MOM/1000		WT.	MIN. MOM/1000	MAX. MOM/1000
5750	1172	1252		7450	1518	1626		9100	1903	1988
5800	1182	1263		7500	1528	1637		9150	1915	1999
5850	1192	1274		7550	1540	1648		9200	1927	2010
5900	1202	1285		7600	1551	1659		9250	1939	2021
5950	1212	1296		7650	1563	1670		9300	1951	2032
6000	1222	1307		7700	1574	1681		9350	1963	2043
6050	1233	1318		7750	1586	1692		9400	1975	2054
6100	1243	1329		7800	1597	1703		9450	1987	2065
6150	1253	1340		7850	1609	1714		9500	1999	2076
6200	1263	1351		7900	1620	1725		9550	2011	2087
6250	1273	1362		7950	1632	1736		9600	2023	2098
6300	1284	1373		8000	1643	1747		Max. Landing Wt. 9600 Lbs		
6350	1294	1384		8050	1655	1758		9650	2035	2109
6400	1304	1395		8100	1667	1769		9700	2048	2120
6450	1314	1406		8150	1678	1780		9750	2060	2131
6500	1324	1417		8200	1690	1791		9850	2084	2153
6550	1335	1428		8250	1702	1802		9900	2096	2164
6600	1345	1439		8300	1713	1813		9950	2109	2175
6650	1355	1450		8350	1725	1824		10000	2121	2186
6700	1365	1461		8400	1737	1835		10050	2133	2197
6750	1375	1472		8450	1748	1846		10100	2146	2208
6800	1385	1483		8500	1760	1857		10150	2158	2219
6850	1396	1494		8550	1772	1868		10200	2170	2230
6900	1406	1505		8600	1784	1879		10250	2183	2241
6950	1416	1516		8650	1796	1890		Max. T. O. Wt. 10250 Lbs		
7000	1426	1527		8700	1807	1901				
7050	1436	1538		8750	1819	1912		10300	2195	2252
7100	1447	1549		Max. Zero-Fuel Wt. 8750 Lbs				Max. Ramp Wt. 10300 Lbs		
7150	1457	1560		8800	1831	1923				
7200	1467	1571		8850	1843	1934				
7250	1477	1582		8900	1855	1945				
7300	1487	1593		8950	1867	1956				
7350	1498	1604		9000	1879	1967				
7400	1508	1615		9050	1891	1977				

**LIST OF REQUIRED EQUIPMENT
INCLUDED IN CORRECTED EMPTY WEIGHT**
(In Addition to Basic Required Equipment, Type Data Sheet 2A4)

X (ITEMS INSTALLED AT TIME OF FACTORY CERTIFICATION)

X	ITEM	WT(LBS)	H-ARM	X	ITEM	WT(LBS)	H-ARM
	<u>PROPELLER & ACCESSORIES</u>						
(X)	1. Propeller Assembly a. Hartzell HC-B3TN-5FL/LT10282H+4 (2)	280	167	(X)	202. Main Wheel Tires (Tube or Tubeless) a. 8.50 - 10, 10 Ply (2)	47	230.5
	or Hartzell HC-B3TN-5FL/LT10282H (B) +4 (2)			(X)	203. Nose Wheel (Tube Type) 6.00-6 a. Goodyear 9532186	4	19
(X)	2. Governor a. AiResearch 895490-1(2) AiResearch 895490-3(2)	Included in 1.		(X)	204. Nose Wheel Tire (Tube Type) a. 6.00-6, 6 Ply	8	19
(X)	3. Spinner a. Hartzell 836-57P (2)	Included in 1.			<u>ELECTRICAL EQUIPMENT</u>		
(X)	4. Unfeathering Pumps a. Rockwell 4790284-501 (2)	5	201	()	301. Regulators a. General Electric CR2795B105A1 (2)	6	297
	<u>ENGINE ACCESSORIES</u>			or	Bendix 1589-1F (2)		
(X)	101. Starter-Generator a. 300 Amp Rockwell 640055-1 (2)	67	193	(X)	b. Lear Siegler 51530-001 (2)	4	297
(X)	102. Oil Cooler a. Harrison 8535436 (2)	22	222	(X)	302. Batteries a. Gulton Type GB-240A-2 (2)	160	294
(X)	103. Fuel Boost Pump a. Lear Siegler RR52270 (2)	6	249	(X)	303. Landing Lights a. Grimes D-3040E (2)	13	208
(X)	104. Aux. Hydraulic Pump a. Weldon P-366A	4	257	(X)	304. Fire Detect System (Dwgs. 260622 & 260024) a. Fenwal 17343-61-450	13	212
(X)	105. Hydraulic Pump a. Rockwell 790332-501 (2)	7	188		<u>INTERIOR EQUIPMENT</u>		
(X)	106. Fuel Flow System a. Rockwell 850498 or Rockwell 850590	7	172	(X)	401. Oxygen System a. Rockwell Dwgs. 861009 & 861896	23	226
(X)	107. Horsepower System a. Rockwell 850475	4	171	(X)	402. Cabin Cooling Installation a. Cooling Unit 1. Stratos BUR-20-1D	37	348
(X)	108. ITT System a. Rockwell 850568	1.2	72	(X)	b. Cooling Blower 1. Joy AV9-6.5-65D or Aerospace Sys. 2103601-1 or Aerospace Sys. 2103601-2	19	320.5
	<u>LANDING GEAR AND BRAKES</u>			(X)	403. Flight Manual Dated <u>Rev. 16</u> <u>11/21/75</u>		
()	201. Main Wheel (Tube or Tubeless) & Brake Assy a. Goodyear 9543939 & 9544237 (2)	58	230.5				
(X)	or 9543939-1 & 9544237 (2) b. Goodyear 9544455 & 5002116 (2)	75.2	230.5				

LIST OF OPTIONAL EQUIPMENT
INCLUDED IN CORRECTED EMPTY WEIGHT

ONLY EQUIPMENT LISTED ABOVE MARKED LINE IS INCLUDED
IN CORRECTED EMPTY WEIGHT WHEN LEAVING FACTORY

ITEM		WT (LBS)	H-ARM	H-MOM
<u>MISCELLANEOUS:</u>				
1. Co-Pilots Vacuum Flight Group	870724-3411	XXX	XXX	
2. Acft. Hour Meter	890435-1	XXX	XXX	
3. Seating Plan "A"	861026-1	41.0	130.	
4. Pilot & Co-Pilot Sun Visors	860211-1	1.78	85.	
5. Eyebrow Window Shades	861986-1,-2	1.5	104.75	
6. IVSI Instl.	850271	XXX	XXX	
7. Rotating Beacon on Belly	800263-505	3.17	406.	
8. Whelan (3) Light Strobe System	800263-503	7.0	258.8	
9. Elt Instl.	490427-1	2.5	342.	
10. Lights on MLG	490433	4.5	230.	
11. Jep Holders Under Crew Seats	861910-1	2.5	94.	
12. Cabin Table R/Hand Side	861919-504	9.8	185.	
13. Storage Drawers - Aft Couch	861902-505	15.6	217.	
14. Two Headrests - Aft Couch	861902-505	4.0	226.	
15. Glass Holders 4 in Cabin 2 in Cockpit	861912-1, 861036-1	3.0	159.66	
16. L/H Cabin Table W/Stereo	861920-503, 861048-513, 800554-513, 861223-503,-504	26.03	178.	
17. Cabin Door Waste Container	861926-1	2.0	130.	
18. Refreshment Units Aft of Crew	861304-1			
	861929-511, 861972-511, 861969-1	77.5	113.5	
19. Relief Tube Instl.	861901-501	1.75	150.	
20. Coat Hangers in Baggage Comp.	860285-503	.13	272.	
21. Chime For "No Smoking" Sign	861967-1	1.0	225.	
22. Storage Comp. L/H Pass. Chair	861252-2	1.5	168.	
TOTAL MISCELLANEOUS:		206.26	154.70	31,908.
<u>AVIONICS:</u> 870724-3411				
1. Quadrant Cover	830680-563	2.8	80.	
2. Quadrant Extension	830682-507	4.6	80.	
3. Circuit Breaker Instl.	830818-501	2.0	300.	
4. Noise Suppression	870774-515	.33	239.5	
5. Wick Instl.	870079-1	1.62	380.	
6. Phones Instl.	871165-501, -502	2.06	86.	
7. Mic Instl.	871149-523,-524	2.13	82.	
8. Sonalert Instl.	830852-501	.30	41.	
9. Cable Plate Instl.	871489-509	.39	228.8	
10. Boom Mic Provisions Instl.	830312-521,-522	.78	80.	
* Items given in Mean arm XXX Negligible				

LIST OF OPTIONAL EQUIPMENT
INCLUDED IN CORRECTED EMPTY WEIGHT

ONLY EQUIPMENT LISTED ABOVE MARKED LINE IS INCLUDED
IN CORRECTED EMPTY WEIGHT WHEN LEAVING FACTORY

ITEM		WT (LBS)	H-ARM	H-MOM
<u>AVIONICS: (CONTINUED)</u>				
11. Ampl. Instl. KAA-445 (2 Instls required)	830737-1	10.4	297.	
12. Volume Pot Instl.	830576-1	XXX	XXX	
13. Circuit Breaker Panel Instl.	830874-1	1.0	72.	
14. Radio Panel Instl.	830552-689	8.8	72.	
15. Audio Panel Instl.	830835-1,-501	XXX	XXX	
16. Instr. Panel L.H.	830562-705	3.8	72.	
17. Instr. Panel Center	830563-649	5.65	72.	
18. Instr. Panel R.H.	830564-601	10.95	72.	
19. Wiring Diagram - Radio	830921-1	XXX	XXX	
20. Radio Rack Instl.	830795-1	12.75	297.	
21. Junction Box Instl.	830540-501	3.12	297.	
22. Gnd Block Instl.	871488-1	.13	62.5	
23. Heat Shield Instl.	830870-1	4.5	306.	
24. Transceiver Instl. VHF-20A	873059-753 (Dual)	12.54	313.0	
25. Antenna Instl. AT-907A	871221-507	4.83	204.7	
26. Antenna Instl. A-15	830622-1	.57	446.	
27. Receiver Instl. VIR-30 (AGM/AG)	873059-805 (Dual)	13.08		
28. Antenna Instl. Nav Ring	830797-1	7.49	459.	
29. Antenna Instl. GS	871567-509 (Dual)	.26	7.5	
30. Antenna Instl. Mkr	871416-511	1.01	348.5	
31. Duplexer Instl.	873059-733	XXX	XXX	
32. Hole Instl. 5.5 Blkh	830577-501	XXX	XXX	
33. DME Instl. - DME-40	873059-911	9.2	297.	
34. Antenna Instl. "L" Band	830160-503	.30	100.	
35. ATC Instl. - TDR-90	830737-529 (Dual)	10.0	297.	
36. Antenna Instl. "L" Band	830160-505,509	1.26	194.03	
37. Receiver Instl. KDF-805	830737-505	4.7	297.	
38. Antenna Instl. ADF Sense	871097-527	4.28	300.	
39. Antenna Instl. ADF Loop	871983-1	2.54	171.5	
40. Doubler Instl. ADF Loop	830769-1	XXX	XXX	
41. Pitot/Static Instl.	830664-1	3.0	220.	
42. Programmer Instl. 161H-1	873059-919	2.5	297.	
43. AS & ALT Cont. Instl.	830671-1	3.0	297.	
44. Autopilot Instl. - AP-106	890432-1	25.0	296.5	
45. Wheel S.W. Instl.	830569-529	.26	85.	
46. Gyro Instl. 332D-11A	873059-775	7.1	297.	
47. Gyro Instl. C-14A	871194-511	5.5	313.	
48. Flux Valve - C-14A	870203-513,-514	2.6	261.	
49. Inverter Instl. PC-15BC	873059-771 (2 reqd)	16.5	313.0	
50. Capacitor Instl.	873059-655	1.88	297.	
	(2 required)			
51. Relay Instl.	873059-729	.20	297.	
52. R/T Instl. - RDR-1200	830385-501	14.5	41.4	
* Items given in Mean arm				
XXX Negligible				

LIST OF OPTIONAL EQUIPMENT
INCLUDED IN CORRECTED EMPTY WEIGHT
ONLY EQUIPMENT LISTED ABOVE MARKED LINE IS INCLUDED
IN CORRECTED EMPTY WEIGHT WHEN LEAVING FACTORY

ITEM	WT (LBS)	H-ARM	H-MOM
<u>AVIONICS: (CONTINUED)</u>			
53. Antenna Instl. RDR-1200 830386-501	9.3	15.5	
54. Scope Instl. RDR-1200 871996-515	8.0	69.0	
55. Wiring Diagram - Radar 830195-501	XXX	XXX	
56. Amplifier 341C-1 871105	1.68	297.	
57. Weight of Wiring & Coax			
<u>NOTE:</u> Panel Weights Include:			
<u>RADIO EQUIPMENT</u>			
2 - VHF-20A 1 - DME-40			
2 - VIR-30 (AGM/AG) 2 - TDR-90			
1 - AP-106/FD-112V 1 - RDR-1200			
1 - 332D-11A 1 - IDC(-532) Alt			
2 - C-14A 2 - PC-15BC			
1 - 331A-3F			
1 - KDF-805			
TOTAL AVIONICS:	371.59	213.10	79,188.
TOTAL OPTIONAL EQUIPMENT:	577.85	192.26	111,096.
<i>J [Signature] 7-19-76</i>			
* Items given in Mean arm XXX Negligible			

NOSE GEAR 474
LEFT MAIN 2, 199
RIGHT MAIN 3, 192
TOTAL WGT. 6, 865

LEFT TO RIGHT 14.2 1/2 "
LEFT TO NOSE 18.11 1/8 "
RIGHT TO NOSE 18.11 1/8 "

81.25 6601.5625
44984.203125
212.09

ACFT. 11337 W.R.O. P- REV. orig
AVIONICS 870724- 3411 REV. ACK
DATE ACFT. WEIGHED: 7-19-76

BALLAST INSTL. 830118

690A & 685			
500 #	WGT.	ARM.	MOM.
-1	12	487	5,844
-501	17	487	8,279
-503	22	487	10,714
-505	27	487	13,149
-507	32	487	15,584
-521	37	487	18,019
-509	42	487	20,454

500S			
500 #	WGT.	ARM.	MOM.
-511	12	413	4,957
-513	17	413	7,021
-515	22	413	9,086
-517	27	413	11,151
-519	32	413	13,216
-523	37	413	15,281
-525	42	413	17,346

SEATING PLAN	CO-PILOT & PASS. WGT.	ARM.	MOM.
"A"	1,190	173.0	205,870
"L"	1,360	171.0	232,560

FINAL APPROVAL
SCHEDULING _____
SALES _____

SALES ORDER

General Aviation Division
Rockwell International

DATE April 1, 1976

Wholesale Purchase
Agreement

INVOICE TO:

UN-ASSIGNED

ORIGINAL

APR 05 1976

P6 #2 ✓

4-1-76
Del. 7-30-76

MODEL

SERIAL NO.

REG. NO.

W.O.#

PRICE

690A

11337

N81476

P3537

(In Lacquer)

Optional Equipment

70A Primary-White
Exterior Std. Design Secondary-Light Orange
70B Burnished Gold Trim-Suede Brown
Interior

ADVANCE COPY

ACTION COPY

- ✓ 3 Aircraft Hour Meter
- ✓ 2 Co-Pilot Flight Group
- ✓ 8 Rapid Response VSI
- ✓ 28 Rotating Beacon on Belly
- ✓ 27 Whelan (3) Light Strobes
- ✓ 39 Emergency Locator Transmitter
- ✓ 81 Lights on MLG
- ✓ 48 Pilot and Co-Pilot Sun Visors
- ✓ 49 Eyebrow Window Shades
- ✓ 89 Jelp Holders under Crew Chairs
- ✓ 42 Large Cabin Table r/h side with U.S. map
- ✓ 46 Storage Drawers under Couch
- ✓ 50 Six Glass Holders on side panel
(2 in cockpit, 2 in cabin)
- ✓ 55 Small Cabin Table and Stereo Console L/H Side;
Incl. Four Headsets and Cabin Speakers
- ✓ 56 Waste Unit on Cabin Door
- ✓ 59 Low Profile Refreshment Unit L/H Side w/single 1.3 Qt. Unit
- ✓ 60 Low Profile Refreshment Unit R/H Side w/no Blkhd,
Vanity Top, One Gallon Heated Unit, Liquor Decanter Drwr.
- ✓ 61 Relief Tube
- ✓ 62 Coat Rod in Baggage Compartment
- ✓ 66 Chime for No Smoking Fasten Seat Belt Sign
- ✓ 68 Two Headrests on Couch
- ✓ 53 Storage Compartment under L/H Cabin Chair
- ✓ Seating Plan "A"

CAPACITY OF PURCHASER: (CHECK ONE)

DISTRIBUTOR ☐

DEALER ☐

I RT DISTRIBUTOR ☐

E. RT DEALER ☐

The undersigned Purchaser hereby orders the airplane and equipment described above. This order is subject to the terms and conditions appearing on the reverse side hereof.

Accepted:

ROCKWELL INTERNATIONAL CORP.
GENERAL AVIATION DIVISION
BETHANY, OKLAHOMA

Purchaser

Deposit of \$..... is hereto attached.

By

By

Delivery Date Desired.....

.....
title

C.M. Shirley
Sales Administrator
title

SALES ORDER

General Aviation Division
Rockwell International

DATE _____

Wholesale Purchase
Agreement

INVOICE TO:

UN-ASSIGNED

ORIGINAL

APR 04 1976

PG #1

4-1-76

Del. 7-30-76

MODEL

SERIAL NO.

REG. NO.

W002

PRICE

690A

11337

N81476
(In lacquer)

P3537

Optional Equipment

Exterior

Interior

AVIONICS AS FOLLOWS:

- A) Comflight Foundation Kit
- B) Two Collins VHF-20A Comm; #1 with Dual Control Heads
- C) One Collins VIR-30 AGM (#1)
- D) One Collins VIR-30 AG (#2)
- E) One Collins AP-106/FD-112V Instl, Incl. C-14 and 32D-11A; Also incl. Electric Elevator Trim and RMI Bearing Pointer Selector
- F) One Collins 331A-3F HSI for Co-Pilot, Incl. #2 C-14 System
- G) One KDF-805 ADF with Collins 332C-10 RMI
- H) One Collins DME-40 System
- I) Two Collins TDR-90 Transponders w/single control head
- J) One Bendix RDE-1200 Radar
- K) One IDC (-532) Encoding ALT
- L) Two PC-15 Inverters

ADVANCE COPY

ACTION COPY

TOTAL LIST

TOTAL NET

CAPACITY OF PURCHASER: (CHECK ONE)

DISTRIBUTOR ☐DEALER ☐EXPORT DISTRIBUTOR ☐EXPORT DEALER ☐

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GENERAL AVIATION DIVISION
BETHANY, OKLAHOMA

Purchaser

By

By C. M. Shirley

Sales Administrator

title

title

Deposit of \$..... is hereto attached.

Delivery Date Desired.....

AIRCRAFT NO.
11337DELIVERY DATE
7-30-76

ENGINEERING DRAWING LIST

WORK ORDER NO. P3537PAGE 12REV. DRG.DATE 4-05-76

ITEM NO.	DRAWING NO.	ENGINEER	ITEM NO.	DRAWING NO.	ENGINEER
✓ 142	870724-3411 PG 959	W. [redacted] 4-7-76	89		
✓ 38	890427-1	W. [redacted] 4-7-76	✓ 89	861910-1	W. [redacted] 4-8-76
✓ 41	861026-1	W. [redacted] 4-8-76			
✓ 42	861919-504				
✓ 46	861902-505				
✓ 48	860211-1				
✓ 49	861968-1/2				
✓ 50	861912-1 (2) 861036-1 (4)				
✓ 53	861252-2				
✓ 55	861920-503 861048-513 861223-503/504		✓ 55	800554-513	W. [redacted] 4-8-76
✓ 56	861926-1		✓ 3	890435-1	J. [redacted] 4-8-76
✓ 59L	861304-1		✓ 8	850271	
✓ 60L	861929-511 861969-1 861972-511		✓ 27	800263-503 850145-511	
✓ 61	861901-501		✓ 28	800263-505	
✓ 62	860285-503		✓ 81	890433	J. [redacted] 4-8-76
✓ 64	861967-1				
✓ 68	SEE ITEM 46				
70A	861025 BROWN / B				
70B	861025-9J	W. [redacted] 4-8-76			

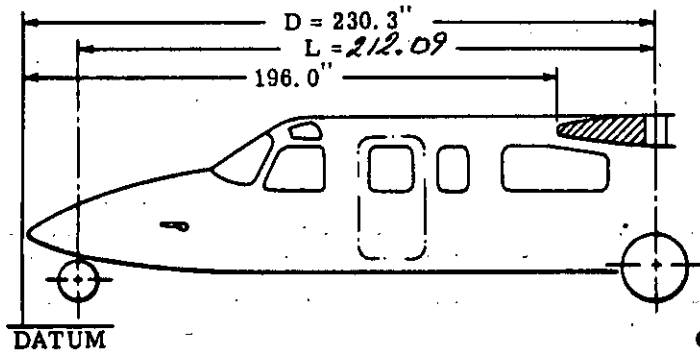
A/C 11337

AIRCRAFT WEIGHT AND BALANCE REPORT

AIRCRAFT AS WEIGHED DATA

CONDITION: FUEL Unusable OIL Full

AIRCRAFT MUST BE LEVEL WHEN WEIGHED



SCALE READINGS

REACTION		WEIGHT	TARE	NET
Nose Wheel	F	474	-	474
Left Main Wheel		3199	-	3199
Right Main Wheel		3192	-	3192
Total Weight	W	6865	-	6865

AS WEIGHED C. G.

$$C.G. = D - \frac{(F \times L)}{W}$$

$$C.G. = 230.3 - \frac{(474)(212.09)}{(6865)} = 215.66$$

AIRCRAFT WEIGHT AND CENTER OF GRAVITY CALCULATIONS

ITEM	WEIGHT	ARM	MOMENT
ACFT AS WEIGHED <u>1-12-76</u> PER W.R.O. <u>P3537</u> REV. <u>0219</u> INSTALL BALLAST PER AeroComm. DWG. 830118-501	6865	215.66	1,480,506
-Drainable Oil	17	487	8,279
Corrected Empty Weight	6861	216.42	1,484,837
-Undrainable Oil	-4.0	188.0	-752
-Unusable Fuel	-31.0	231.0	-7,161
-Hydraulic Fluid	-31.0	279.2	-8,655
Dry Empty Weight (Equipped)	6795	216.08	1,468,269

$$USEFUL\ LOAD = 10,300 - 6861 = 3439\ LBS$$

LOADING SUB-TOTAL

ITEM	WEIGHT	ARM	MOM/1000
Corrected Empty Weight	6861	216.42	1,485
+Drainable Oil	21	188.0	4
+Pilot Weight	170	94.0	16
Loading Sub-Total	7052	213.42	1,505

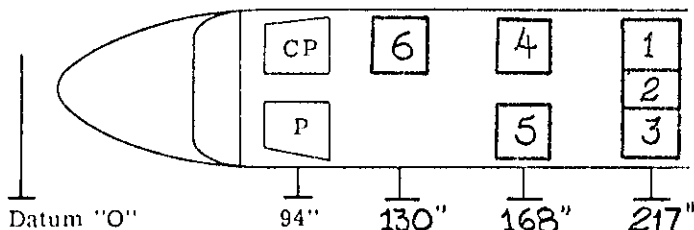
NOTE: It is the responsibility of the aircraft owner and the pilot to ensure that the aircraft is loaded properly. The corrected empty weight, corrected empty weight C. G. and useful load are noted on this page for this aircraft as delivered from the factory. If the aircraft has been altered, refer to the latest approved Repair and Alteration Form (ACA-337) and/or the Airframe Log Book for revisions to this report.

A/C 11337

AIRCRAFT WEIGHT AND MOMENT TABLES

LOADING CALCULATION TABLES
(TO BE ADDED TO LOADING SUB-TOTAL)

Factory recommended passenger locations.



SEATING PLAN "A"

SEAT NO.	WT.	MOM/1000
CP	170	16
1.	170	37
2.	170	37
3.	170	37
4.	170	28
5.	170	28
6.	170	22

BAGGAGE		LOADING SCHEDULE (Example)	
WT.	MOM/1000	ITEM	MOMENT/1000 (IN-LB)
25	6	LOADING SUB-TOTAL	7,052 1505
50	13	CO-PILOT	170 16
75	19	PASSENGERS	170 37
100	26		170 37
125	32		170 28
150	39		
175	45		
200	52	BAGGAGE	165 43
225	58	WEIGHT -LESS FUEL	7,727 1638
250	65	TOTAL USABLE FUEL 384 GAL*	2,573 591
275	71	RAMP WEIGHT	10,300 2229
300	77	LESS WARM-UP, TAXI, TAKEOFF	-50 -11
325	84	TAKEOFF WEIGHT	10,250 2218
350	90	LESS FLIGHT FUEL USED (176.5G)	1,183 -264
375	97	LANDING WEIGHT	9,067 1954
400	103	* 6.7 LBS./GAL. FUEL	
425	109		
450	116		
475	122		
500	129		
525	135		
550	142		
575	148		
600	155		

(7.5G)

Weight Engineer - Bethany Aircraft Division

KAO = 8.8
 L/H 3.8
 R/H 10.95
 CTR. 5.65
 WIRE 120.4

Rockwell Turbo Commander Model 690A
 Aircraft Weight and Balance Report

ACFT. 11337

OPTIONAL EQUIPMENT LIST

ONLY EQUIPMENT LISTED ABOVE MARKED LINE IS INCLUDED
 IN CORRECTED EMPTY WEIGHT WHEN LEAVING FACTORY

MISCELLANEOUS:	ITEM	WT (LBS)	H-ARM	H-MOM
1.	Co- Pilots Vacuum Flight Group 870724-341	XXX	XXX	
2.	Acft. Hour Meter 890435-1	XXX	XXX	
3.	Seating Plan "A" 861026-1	41.0	130.	
4.	Pilot & Co-Pilot Sun Visors 860211-1	1.78	85.	
5.	Eyebrow Window Shades 861986-1,-2	1.5	104.75	
6.	IVSI INSTL 850271	xxx	xxx	
7.	ROTATING BEACON ON BELLY 800263-505	3.17	406.	
8.	WHEELAN (3) LIGHT STROBE SYSTEM 800263-503	7.0	258.8	
9.	ELT INSTL 490427-1	2.5	342.	
10.	LIGHTS ON MLG. 490433	4.5	230.	
11.	JEP HOLDERS UNDER CREW SEATS 861910-1	2.5	94.	
12.	CABIN TABLE R/W AND SIDE 861919-504	9.8	185.	
13.	STORAGE DRAWERS-AET COUCH 861902-505	15.6	217.	
14.	TWO HEADRESTS-AET COUCH 861902-505	4.0	226.	
15.	GLASS HOLDERS 4 IN CABIN 2 IN COCKPIT 861912-1, 861036-1	3.0	159.66	
16.	4H-CABIN TABLE W/STEREO 861920-503, 861048-513, 800554-513 861223-503,-504	26.03	178.	
17.	CABIN DOOR WASTE CONTAINER 861926-1	2.0	130.	
18.	REFRESHMENT UNITS AET OF CREW 861304-1, 861929-511	—	—	
19.	RELIEF TUBG INSTL 861922-511, 861969-1	77.5	113.5	
20.	COAT HANGERS IN BAGG COMPT 861921-501	1.75	150.	
21.	CHIME FOR "NO SMOKING" SIGN 861967-1	.13	272.	
22.	STORAGE COMPT 4H PASS CHAIR. 861252-2	1.0	225.	
		1.5	168.	
		206.26	154.70	31908.
Avionics 870724-3411				
1	Quadrant Cover 830680-563	2.8	80.	
2	Quadrant Extension 830682-507	4.6	80.	
3	Circuit Breaker Instl. 830818-501	2.0	300.	
4	Noise Suppression 870774-515	.33	239.5	
5	Wick Instl. 870079-1	1.62	380.	
6	Phones Instl. 871165-501,-502	2.06	86.	
7	Mic Instl. 871149-523,-524	2.13	82.	
8	Sonalert Instl. 830852-501	.30	41.	
9	Cable Plate Instl. 871489-509	.39	228.8	
10	Boom Mic Provisions Instl. 830312-521,-522	.78	80.	
11	Ampl. Instl. KAA-445 (2 instls reqd) 830737-1	10.4	297.	
12	Volume Pot Instl. 830576-1	xxx	xxx	
13	Circuit Breaker Panel Instl. 830874-1	1.0	72.	
14	Radio Panel Instl. 830552-689	8.8	72.	
15	Audio Panel Instl. 830835-1,-501	xxx	xxx	
16	Instr. Panel L.H. 830562-705	3.8	72	
* Items given in Mean arm XXX Negligible				

LIST OF OPTIONAL EQUIPMENT
INCLUDED IN CORRECTED EMPTY WEIGHT
ONLY EQUIPMENT LISTED ABOVE MARKED LINE IS INCLUDED
IN CORRECTED EMPTY WEIGHT WHEN LEAVING FACTORY

<i>Avionics Cont:</i>		ITEM	WT (LBS)	H-ARM	H-MOM
17	Instr. Panel Center	830563-649	5.65	72.	
18	Instr. Panel R.H.	830564-601	10.95	72.	
19	Wiring Diagram - Radio	830921-1	XXX	XXX	
20	Radio Rack Instl.	830795-1	12.75	297.	
21	Junction Box Instl.	830540-501	3.12	297.	
22	Gnd. Block Instl.	871488-1	.13	62.5	
23	Heat Shield Instl.	830870-1	4.5	306.	
24	Transceiver Instl. VHF-20A	873059-753 (Dual)	12.54	313.0	
25	Antenna Instl. AT-907A	871221-507	4.83	204.7	
26	Antenna Instl. A-15	830622-1	.57	746.	
27	Receiver Instl. VIR-30 (AGM/AG)	873059-805 (Dual)	13.08	297.	
28	Antenna Instl. Nav Ring	830797-1	7.49	459.	
29	Antenna Instl. GS	871567-509 (Dual)	.26	7.5	
30	Antenna Instl. Mkr	871416-511	1.01	348.5	
31	Duplexer Instl.	873059-733	XXX	XXX	
32	Hole Instl. 5.5 Blkhd	830577-501	XXX	XXX	
33	DME Instl. - DME-40	873059-911	9.2	297.	
34	Antenna Instl. "L" Band	830160-503	.30	100.	
35	ATC Instl. - TDR-90	830737-529 (Dual)	10.0	297.	
36	Antenna Instl. "L" Band	830160-505, -509	1.26	194.03	
37	Receiver Instl. KDF-805	830737-505	4.7	297.	
38	Antenna Instl. ADF Sense	871097-527	4.28	300.	
39	Antenna Instl. ADF Loop	871983-1	2.54	171.5	
40	Doubler Instl. ADF Loop	830769-1	XXX	XXX	
41	Pitot/Static Instl.	830664-1	3.0	220.	
42	Programmer Instl. 161H-1	873059-919	2.5	297.	
43	AS & ALT Cont. Instl.	830671-1	3.0	297.	
44	Autopilot Instl. - AP-106	890432-1	25.0	296.5	
45	Wheel SW. Instl.	830569-529	.26	85.	
46	Gyro Instl. 332D-11A	873059-775	7.1	297.	
47	Gyro Instl. C-14A	871194-511	5.5	313.	
48	Flux Valve - C-14A	870203-513, -514	2.6	261.	
49	Inverter Instl. FC-15BC	873059-771 (2 reqd)	16.5	313.0	
* Items given in Mean arm XXX Negligible					

LIST OF OPTIONAL EQUIPMENT
INCLUDED IN CORRECTED EMPTY WEIGHT

ONLY EQUIPMENT LISTED ABOVE MARKED LINE IS INCLUDED
IN CORRECTED EMPTY WEIGHT WHEN LEAVING FACTORY

Avionics CONT		ITEM	WT (LBS)	H-ARM	H-MOM
50	Capacitor Instl.	873059-655 (2 reqd.)	1.88	297.	
51	Relay Instl.	873059-729	.20	297.	
52	R/T Instl. - RDR-1200	830385-501	14.5	41.4	
53	Antenna Instl. RDR-1200	830386-501	9.3	15.5	
54	Scope Instl. RDR-1200	871996-515	8.0	69.0	
55	Wiring Diagram - Radar	830195-501	XXX	XXX	
56	Amplifier 341C-1	871105	1.68	297.	
57	WEIGHT OF WIRING & COAX		120.4	180.	
NOTE PANEL WEIGHTS INCLUDE					
RADIO EQUIPMENT					
1	- DME-40	TOTAL Avionics	371.59	213.10	79,188.
2	- VHF-20A				
2	- VIR-30(AGM/AG)	TOTAL OPTIONAL EQUIPMENT	577.85	192.26	115,096
1	- AP-106/FD-112V				
1	- 332D-11A				
2	- C-14A				
1	- 331A-3F				
1	- KDF-805				

* Items given in Mean arm
XXX Negligible