A/C Make Beech
A/C Model C23
A/C S/N M1728
A/C N# 9236S
Date 7/10/2018

A/C Gross Weight: 2,450

Aircraft Previous Weight & Balance

	Weight	Arm	Moment
	1,580.03	110.76	175,004.12
EQUIPMENT REMOVED			0.00
BendixKing KX-155 COM NAV #1	-5.50	83.00	-456.50
			0.00
			0.00
			0.00
EQUIPMENT INSTALLED			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
Total	1,574.53	110.86	174,547.62

New A/C Empty Weight:	1574.53
New A/C CG:	110.86
New A/C Moment:	174547.62
New A/C Useful Load:	875.47

Supercedes: 11/15/2016

Signed:

Cert No.: 3677532 A&P

NOTE: This is a Temperary Weight and Balance Change for removal of radio equipment for repair

THIS EQUIPMENT LIST AND WEIGHT AND BALANCE IS TO REMAIN IN AIRCRAFT.

The following Sample Loading chart is presented to depict the sample method of computing a load. Weights used DO NOT reflect an actual airplane loading.

SAMPLE LOADING

	Weight (Lbs)	Moment 100
1. Basic Empty Weight	1500	1650
2. Useful Load		
(a) Usable Fuel (38 gal)	230	269
(b) Pilot & Front Seat Passenger	340	374
(c) Rear Seat Occupants	340	482
(d) Baggage or Cargo	40	67
3. *Total at Take-off	2450	2842
4. Less: Fuel (25 gal)	-150	-176
5. *Total at Landing	2300	2666

**Locate each of these points on the Gross Weight Moment Limits table or graph to insure proper loading under all fuel conditions.*

OIL
(Included in Basic Empty Weight)

ARM 48		
QTS	WT	MOMENT/100
8	15	7

USABLE FUEL

ARM 117		
GALLONS	WEIGHT	MOMENT/100
5	30	35
10	60	70
15	90	105
20	120	140
22	132	154
25	150	176
30	180	211
32	192	225
35	210	246
40	240	281
45	270	316
50	300	351
52	312	365
55	330	386
58	348	407

OCCUPANTS

FRONT SEAT		REAR SEAT	
ARM 110		ARM 142	
WEIGHT	MOMENT 100	WEIGHT	MOMENT 100
120	132	120	170
130	143	130	185
140	154	140	199
150	165	150	213
160	176	160	227
170	187	170	241
180	198	180	256
190	209	190	270
200	220	200	284

BAGGAGE

ARM 167	
WEIGHT	MOMENT 100
10	17
20	33
30	50
40	67
50	84
60	100
70	117
80	134
90	150
100	167
110	184
120	200
130	217
140	234

(NORMAL CATEGORY)

Gross Weight	Minimum Moment 100	Maximum Moment 100	Gross Weight	Minimum Moment 100	Maximum Moment 100	Gross Weight	Minimum Moment 100	Maximum Moment 100
1500	1617	1775	1900	2068	2248	2300	2599	2721
1510	1628	1786	1910	2081	2260	2310	2613	2733
1520	1639	1798	1920	2094	2271	2320	2626	2745
1530	1649	1810	1930	2107	2283	2330	2640	2756
1540	1660	1822	1940	2120	2295	2340	2654	2768
1550	1671	1834	1950	2133	2307	2350	2668	2780
1560	1682	1845	1960	2145	2319	2360	2681	2792
1570	1692	1857	1970	2158	2331	2370	2695	2804
1580	1703	1869	1980	2172	2342	2380	2708	2816
1590	1714	1881	1990	2185	2354	2390	2722	2827
1600	1725	1893	2000	2198	2366	2400	2736	2839
1610	1736	1905	2010	2211	2378	2410	2750	2851
1620	1746	1916	2020	2224	2390	2420	2764	2863
1630	1757	1928	2030	2237	2401	2430	2777	2875
1640	1768	1940	2040	2250	2413	2440	2791	2887
1650	1779	1952	2050	2263	2425	2450	2805	2898
1660	1789	1964	2060	2276	2437			
1670	1800	1976	2070	2290	2449			
1680	1811	1987	2080	2303	2461			
1690	1822	1999	2090	2316	2472			
1700	1833	2011	2100	2329	2484			
1710	1843	2023	2110	2343	2493			
1720	1854	2035	2120	2356	2508			
1730	1865	2047	2130	2369	2520			
1740	1876	2058	2140	2383	2532			
1750	1887	2070	2150	2396	2543			
1760	1897	2082	2160	2409	2555			
1770	1908	2094	2170	2423	2567			
1780	1919	2106	2180	2436	2579			
1790	1930	2118	2190	2450	2591			
1800	1940	2129	2200	2463	2603			
1810	1953	2141	2210	2477	2614			
1820	1966	2153	2220	2490	2626			
1830	1978	2165	2230	2504	2638			
1840	1991	2177	2240	2517	2650			
1850	2004	2189	2250	2531	2662			
1860	2017	2200	2260	2544	2674			
1870	2029	2212	2270	2558	2685			
1880	2042	2224	2280	2572	2697			
1890	2055	2236	2290	2585	2709			

The above weight and moment limits are based on the following weight and center of gravity limit data:

NORMAL CATEGORY

GROSS WEIGHT MOMENT LIMITS

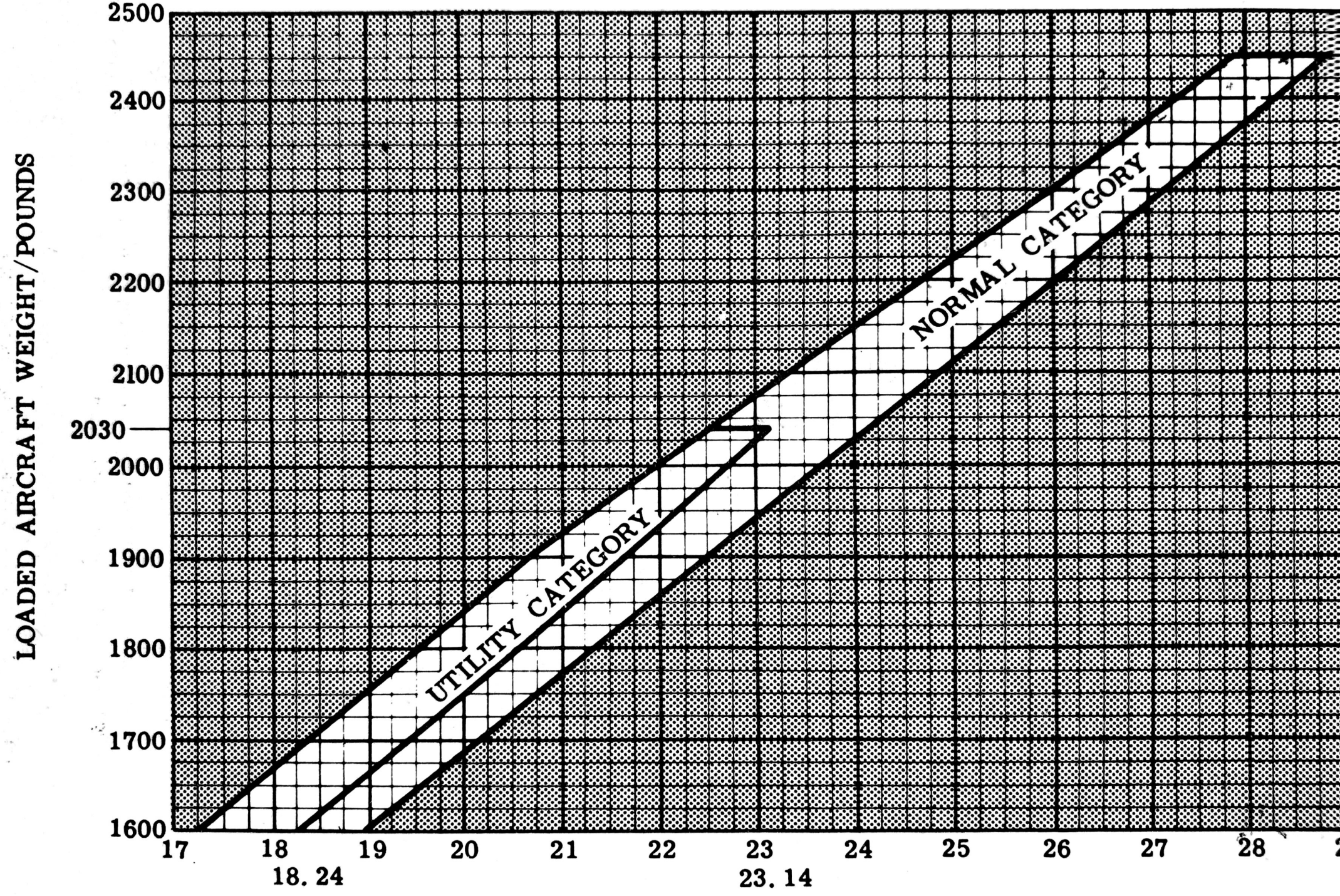
(UTILITY CATEGORY & ACROBATIC CATEGORY)

Gross Weight	Minimum Moment / 100	Maximum Moment / 100	Gross Weight	Minimum Moment / 100	Maximum Moment / 100
1500	1617	1710	1800	1940	2052
1510	1628	1721	1810	1953	2063
1520	1639	1733	1820	1966	2075
1530	1649	1744	1830	1978	2086
1540	1660	1756	1840	1991	2098
1550	1671	1767	1850	2004	2109
1560	1682	1778	1860	2017	2120
1570	1692	1790	1870	2029	2132
1580	1703	1801	1880	2042	2143
1590	1714	1813	1890	2055	2155
1600	1725	1824	1900	2068	2166
1610	1736	1835	1910	2081	2177
1620	1746	1847	1920	2094	2189
1630	1757	1858	1930	2107	2200
1640	1768	1870	1940	2120	2212
1650	1779	1881	1950	2133	2223
1660	1789	1892	1960	2145	2234
1670	1800	1904	1970	2158	2246
1680	1811	1915	1980	2172	2257
1690	1822	1927	1990	2185	2269
1700	1833	1938	2000	2198	2280
1710	1843	1949	2010	2211	2291
1720	1854	1961	2020	2224	2303
1730	1865	1972	2030	2237	2314
1740	1876	1984			
1750	1887	1995			
1760	1897	2006			
1770	1908	2018			
1780	1919	2029			
1790	1930	2041			

The above weight and moment limits are based on the following weight and center of gravity limit data:

UTILITY CATEGORY & ACROBATIC CATEGORY

WEIGHT CONDITION	FWD CG LIMIT	AFT CG LIMIT
2030 lbs (max. take-off or landing)	110.2	114.0
1800 lbs or less	107.8	114.0


LOADED AIRCRAFT WEIGHT/POUNDS
2500
2400
2300
2200
2100
2030
2000
1900
1800
1700
1600
NORMAL CATEGORY
UTILITY CATEGORY
17
18
19
20
21
22
23
24
25
26
27
28
18.24
23.14
LOADED AIRCRAFT MOMENT/10,000

C23-601-1