

CARGO POD INSTALLED TAKEOFF DISTANCE

MAXIMUM WEIGHT 8750 LBS and 8300 LBS
SHORT FIELD

CONDITIONS:

FLAPS 20°

1900 RPM

INERTIAL SEPARATOR -
NORMAL

CABIN HEAT - OFF

TORQUE SET PER
FIGURE 5-8

PAVED, LEVEL, DRY
RUNWAY

ZERO WIND

NOTES:

1. USE SHORT FIELD TECHNIQUES AS SPECIFIED IN SECTION 4.
2. DECREASE DISTANCES 10% FOR EACH 11 KNOTS HEADWIND. FOR OPERATION WITH TAILWINDS UP TO 10 KNOTS, INCREASE DISTANCES BY 10% FOR EACH 2 KNOTS.
3. FOR OPERATION ON A DRY, GRASS RUNWAY, INCREASE DISTANCES BY 15% OF THE "GROUND ROLL" FIGURE.
4. WITH TAKEOFF POWER SET BELOW THE TORQUE LIMIT (1865 FT-LBS), INCREASE DISTANCE (BOTH GROUND ROLL AND TOTAL DISTANCE) BY 3% FOR INERTIAL SEPARATOR IN BYPASS AND INCREASE GROUND ROLL 5% AND TOTAL DISTANCES 10% FOR CABIN HEAT ON.
5. WHERE DISTANCE VALUES HAVE BEEN REPLACED BY DASHES, OPERATING TEMPERATURE LIMITS OF THE AIRPLANE WOULD BE GREATLY EXCEEDED. THOSE DISTANCES WHICH ARE INCLUDED BUT THE OPERATION SLIGHTLY EXCEEDS THE TEMPERATURE LIMIT ARE PROVIDED FOR INTERPOLATION PURPOSES ONLY.
6. FOR OPERATIONS ABOVE 40°C AND BELOW THE TEMPERATURE OPERATING LIMITATIONS, MULTIPLY TAKEOFF DISTANCES AT 40°C BY 1.2.

8750 Pounds:

TAKEOFF SPEED KIAS		PRESS ALT FT	-10°C		0°C		10°C		20°C		30°C		40°C	
LIFT OFF	AT 50 FT		GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS
70	83	SL	1205	2160	1280	2295	1365	2430	1445	2570	1535	2720	1625	2870
		2000	1360	2430	1455	2580	1545	2740	1645	2905	1745	3075	1910	3400
		4000	1550	2745	1655	2920	1760	3105	1875	3295	1995	3510	2290	4135
		6000	1765	3115	1890	3325	2015	3540	2145	3765	2435	4370	2805	5195
		8000	2025	3560	2165	3805	2345	4125	2670	4815	3065	5715	3565	7005
		10000	2335	4090	2585	4580	2930	5325	3370	6350	3915	7790	---	---
		12000	2875	5155	3270	6030	3745	7175	4350	8865	---	---	---	---

8300 Pounds:

TAKEOFF SPEED KIAS		PRESS ALT FT	-10°C		0°C		10°C		20°C		30°C		40°C	
LIFT OFF	AT 50 FT		GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS
67	80	SL	1050	1870	1120	1980	1190	2095	1260	2215	1335	2340	1415	2470
		2000	1190	2095	1265	2225	1345	2360	1430	2495	1515	2640	1660	2910
		4000	1350	2360	1440	2510	1530	2665	1630	2825	1735	3005	1980	3510
		6000	1535	2675	1640	2850	1750	3030	1860	3220	2105	3710	2415	4360
		8000	1760	3045	1880	3250	2030	3515	2305	4070	2635	4775	3050	5745
		10000	2025	3490	2235	3890	2530	4485	2890	5275	3340	6345	---	---
		12000	2480	4350	2810	5040	3205	5915	3700	7135	4330	8965	---	---

Figure 5-9*. Takeoff Distance (Sheet 1 of 2)

CARGO POD INSTALLED
TAKEOFF DISTANCE (Continued)
7800 LBS and 7300 LBS
SHORT FIELD

Refer to Sheet 1 for appropriate conditions and notes.

7800 Pounds:

TAKEOFF SPEED KIAS		PRESS ALT FT	-10°C		0°C		10°C		20°C		30°C		40°C	
LIFT OFF	AT 50 FT		GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS
64	76	SL	895	1585	955	1680	1015	1775	1075	1875	1140	1975	1205	2080
		2000	1015	1775	1080	1880	1145	1990	1215	2105	1290	2225	1410	2440
		4000	1150	1995	1225	2115	1300	2245	1385	2375	1470	2525	1675	2925
		6000	1305	2250	1395	2395	1485	2545	1580	2700	1780	3085	2030	3595
		8000	1495	2555	1595	2725	1720	2940	1945	3375	2215	3920	2550	4645
		10000	1715	2920	1890	3240	2130	3705	2425	4310	2785	5100	---	---
		12000	2090	3605	2360	4135	2680	4800	3075	5685	3575	6920	---	---

7300 Pounds:

TAKEOFF SPEED KIAS		PRESS ALT FT	-10°C		0°C		10°C		20°C		30°C		40°C	
LIFT OFF	AT 50 FT		GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS
61	73	SL	760	1345	805	1420	855	1500	910	1580	960	1665	1015	1755
		2000	855	1500	910	1585	970	1680	1025	1775	1085	1870	1185	2045
		4000	970	1680	1035	1780	1100	1885	1165	1995	1240	2115	1405	2435
		6000	1100	1895	1175	2010	1250	2130	1330	2260	1495	2570	1695	2965
		8000	1255	2145	1340	2280	1445	2455	1630	2800	1845	3225	2115	3780
		10000	1440	2440	1585	2695	1780	3065	2020	3530	2305	4130	---	---
		12000	1750	2985	1970	3405	2225	3910	2540	4575	2930	5460	---	---

Figure 5-9*. Takeoff Distance (Sheet 2 of 2)

CARGO POD INSTALLED TAKEOFF DISTANCE

MAXIMUM WEIGHT 8750 lbs

FLAPS 0°

CONDITIONS:

FLAPS 0°

1900 RPM

INERTIAL SEPARATOR - NORMAL

CABIN HEAT - OFF

TORQUE SET PER FIGURE 5-8

PAVED, LEVEL, DRY RUNWAY

ZERO WIND

NOTE

1. USE TYPE II, TYPE III, OR TYPE IV ANTI-ICE FLUID TAKEOFF TECHNIQUE AS SPECIFIED IN SECTION 4.
2. DECREASE DISTANCES 10% FOR EACH 11 KNOTS HEADWIND. FOR OPERATION WITH TAILWINDS UP TO 10 KNOTS, INCREASE DISTANCES BY 10% FOR EACH 2 KNOTS.
3. FOR OPERATION ON A DRY, GRASS RUNWAY, INCREASE DISTANCES BY 15% OF THE "GROUND ROLL" FIGURE.
4. WITH TAKEOFF POWER SET BELOW THE TORQUE LIMIT (1865 FT-LBS), INCREASE DISTANCE (BOTH GROUND ROLL AND TOTAL DISTANCE) BY 3% FOR INERTIAL SEPARATOR IN BYPASS AND INCREASE GROUND ROLL 5% AND TOTAL DISTANCES 10% FOR CABIN HEAT ON.
5. WHERE DISTANCE VALUES HAVE BEEN REPLACED BY DASHES, OPERATING TEMPERATURE LIMITS OF THE AIRPLANE WOULD BE GREATLY EXCEEDED. THOSE DISTANCES WHICH ARE INCLUDED BUT THE OPERATION SLIGHTLY EXCEEDS THE TEMPERATURE LIMIT ARE PROVIDED FOR INTERPOLATION PURPOSES ONLY.

WT. LBS	TAKEOFF SPEED KIAS		PRESS ALT FT	-20°C		-10°C		0°C		10°C	
	LIFT OFF	AT 50 FT		GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS
8750	83	104	SL	1720	3205	1840	3420	1960	3645	2085	3880
			2000	1950	3625	2085	3875	2225	4140	2370	4410
			4000	2215	4125	2370	4415	2535	4725	2700	5045
			6000	2530	4715	2710	5060	2900	5425	3095	5805
			8000	2900	5425	3110	5835	3335	6270	3605	6825
			10000	3340	6280	3590	6775	3995	7660	4575	9045
			12000	3930	7485	4475	8740	5135	10385	5955	12585

Figure 5-9A. Takeoff Distance (Sheet 1 of 2)

CARGO POD INSTALLED
TAKEOFF DISTANCE (Continued)
8300, 7800, and 7300 LBS
FLAPS 0°

Refer to Sheet 1 for appropriate conditions and notes.

WT. LBS	TAKEOFF F SPEED KIAS		PRESS ALT FT	-20°C		-10°C		0°C		10°C	
	LIFT OFF	AT 50 FT		GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS
8300	83	104	SL	1620	3015	1730	3220	1845	3430	1965	3650
			2000	1835	3410	1960	3645	2095	3890	2230	4145
			4000	2085	3875	2230	4150	2385	4435	2540	4735
			6000	2380	4430	2550	4750	2725	5090	2910	5445
			8000	2725	5090	2925	5475	3130	5880	3385	6395
			10000	3140	5890	3375	6350	3750	7170	4285	8450
			12000	3690	7010	4195	8170	4810	9685	5570	11705
7800	83	104	SL	1510	2810	1615	2995	1720	3190	1830	3395
			2000	1710	3175	1825	3390	1950	3620	2075	3855
			4000	1940	3605	2080	3860	2220	4125	2365	4400
			6000	2215	4115	2370	4415	2535	4730	2705	5055
			8000	2535	4730	2720	5085	2910	5455	3145	5930
			10000	2920	5465	3135	5890	3480	6640	3975	7810
			12000	3430	6495	3890	7555	4460	8935	5155	10765
7300	83	104	SL	1405	2605	1500	2780	1595	2960	1695	3145
			2000	1585	2945	1695	3145	1810	3355	1925	3570
			4000	1800	3340	1925	3575	2055	3820	2190	4075
			6000	2055	3810	2200	4085	2350	4375	2505	4675
			8000	2350	4375	2520	4700	2695	5040	2910	5475
			10000	2705	5050	2905	5440	3220	6125	3675	7190
			12000	3170	5995	3595	6960	4115	8215	4750	9865

Figure 5-9A. Takeoff Distance (Sheet 2 of 2)

CARGO POD INSTALLED

RATE OF CLIMB-TAKEOFF FLAP SETTING

FLAPS 20°

CONDITIONS:

TAKEOFF POWER

1900 RPM

INERTIAL SEPARATOR-NORMAL

NOTE

1. Do not exceed torque limit for takeoff per Engine Torque for Takeoff chart. When ITT exceeds 765°C, this power setting is time limited to 5 minutes.
2. With climb power set below the torque limit, decrease rate of climb by 20 FPM for inertial separator in BYPASS and 45 FPM for cabin heat ON.
3. Where rate of climb values have been replaced by dashes, operating temperature limits of the airplane would be greatly exceeded. Those rates of climb which are included, but the operation slightly exceeds the temperature limit, are provided for interpolation purposes only.

WEIGHT LBS	PRESS ALT FT	CLIMB SPEED KIAS	RATE OF CLIMB-FPM			
			-20°C	0°C	20°C	40°C
8750	SL	91	855	835	815	795
	2000	90	835	815	795	730
	4000	89	815	790	765	645
	6000	88	790	765	740	555
	8000	87	760	735	620	435
	10000	85	730	665	500	---
	12000	84	680	540	380	---
8300	SL	90	940	920	900	880
	2000	89	920	895	875	810
	4000	88	895	870	850	725
	6000	86	870	845	820	630
	8000	85	840	815	700	505
	10000	84	810	745	575	---
	12000	82	760	615	450	---
7800	SL	89	1035	1020	1000	980
	2000	87	1015	995	975	910
	4000	86	995	970	950	820
	6000	85	965	945	920	720
	8000	83	940	915	795	595
	10000	82	905	840	665	---
	12000	80	855	710	540	---
7300	SL	88	1145	1130	1110	1090
	2000	86	1125	1105	1085	1020
	4000	85	1105	1080	1060	925
	6000	84	1075	1055	1030	825
	8000	82	1050	1025	900	690
	10000	81	1015	950	765	---
	12000	79	965	810	635	---

Figure 5-10. Rate of Climb-Takeoff Flap Setting

CARGO POD INSTALLED CLIMB GRADIENT-TAKEOFF FLAP SETTING FLAPS 20°

CONDITIONS:
TAKEOFF POWER
1900 RPM
INERTIAL SEPARATOR-NORMAL
ZERO WIND

NOTE

1. Do not exceed torque limit for takeoff per Engine Torque for Takeoff chart. When ITT exceeds 765°C, this power setting is time limited to 5 minutes.
2. With climb power set below the torque limit, decrease climb gradient by 10 F/NM for inertial separator in BYPASS and 30 FT/NM for cabin heat ON.
3. Where climb gradient values have been replaced by dashes, operating temperature limits of the airplane would be greatly exceeded. Those climb gradients which are included, but the operation slightly exceeds the temperature limit, are provided for interpolation purposes only.

WEIGHT LBS	PRESS ALT FT	CLIMB SPEED KIAS	CLIMB GRADIENT - FT/NM			
			-20°C	0°C	20°C	40°C
8750	SL	70	670	630	595	560
	2000	71	630	590	555	500
	4000	71	590	555	520	430
	6000	71	555	515	480	355
	8000	72	515	475	390	270
	10000	72	475	420	310	---
	12000	72	430	330	225	---
8300	SL	68	745	705	665	630
	2000	69	705	660	625	565
	4000	69	665	620	585	490
	6000	69	620	580	545	410
	8000	69	580	540	450	325
	10000	69	540	475	360	---
	12000	69	490	385	275	---
7800	SL	65	840	795	755	715
	2000	65	795	750	710	645
	4000	66	750	705	665	565
	6000	66	705	665	625	480
	8000	66	660	620	525	390
	10000	67	620	550	430	---
	12000	67	565	450	335	---
7300	SL	62	950	900	855	810
	2000	62	900	855	805	735
	4000	63	855	805	760	650
	6000	63	805	755	715	560
	8000	63	755	710	605	460
	10000	64	710	635	505	---
	12000	64	650	530	405	---

Figure 5-11. Climb Gradient - Takeoff Flap Setting

CARGO POD INSTALLED MAXIMUM RATE OF CLIMB FLAPS UP

CONDITIONS:

1900 RPM

INERTIAL SEPARATOR-NORMAL

NOTE

1. Torque set at 1865 foot-pounds or lesser value must not exceed maximum climb ITT of 765°C or N_g or 101.6%.
2. With climb power set below the torque limit, decrease rate of climb by 30 FPM for inertial separator in BYPASS and 65 FPM for cabin heat ON.
3. Where rate of climb values have been replaced by dashes, an appreciable rate of climb for the weight shown cannot be expected or operating temperature limits of the airplane would be greatly exceeded. Those rates of climb which are included but the operation slightly exceeds the temperature limit are provided for interpolation purposes only.

WEIGHT LBS	PRESS ALT FT	CLIMB SPEED KIAS	RATE OF CLIMB - FPM				
			-40°C	-20°C	0°C	20°C	40°C
8750	SL	104	975	960	940	920	705
	4000	104	940	915	890	785	450
	8000	104	890	865	780	515	215
	12000	101	840	710	510	275	15
	16000	95	610	445	260	50	---
	20000	87	345	195	20	---	---
	24000	78	95	---	---	---	---
8300	SL	103	1065	1045	1025	1005	780
	4000	103	1025	1000	980	865	520
	8000	103	980	950	865	590	275
	12000	100	930	795	585	340	70
	16000	94	690	520	330	110	---
	20000	86	420	260	80	---	---
	24000	77	165	15	---	---	---
7800	SL	101	1170	1150	1135	1115	880
	4000	101	1130	1110	1090	975	610
	8000	101	1085	1060	975	685	355
	12000	98	1035	900	680	425	145
	16000	91	790	615	415	185	---
	20000	83	510	345	160	---	---
	24000	73	245	95	---	---	---
7300	SL	99	1285	1270	1250	1235	990
	4000	99	1250	1230	1210	1090	710
	8000	99	1205	1180	1090	790	445
	12000	96	1155	1015	790	520	225
	16000	88	900	720	510	275	---
	20000	80	605	440	245	25	---
	24000	69	330	175	---	---	---

Figure 5-12. Maximum Rate of Climb - Flaps Up

CARGO POD INSTALLED TAKEOFF CLIMB GRADIENT FLAPS UP

CONDITIONS:

TAKEOFF POWER

1900 RPM

INERTIAL SEPARATOR-NORMAL

NOTE

1. Do not exceed torque limit for takeoff per Engine Torque for Takeoff chart. When ITT exceeds 765°C, this power setting is time limited to 5 minutes.
2. With climb power set below the torque limit, decrease rate of climb by 10 F/NM for inertial separator in BYPASS and 40 FT/NM for cabin heat ON.
3. Where climb gradient values have been replaced by dashes, operating temperature limits of the airplane would be greatly exceeded. Those climb gradients which are included, but the operation slightly exceeds the temperature limit, are provided for interpolation purposes only.

WEIGHT LBS	PRESS ALT FT	CLIMB SPEED KIAS	CLIMB GRADIENT - FT/NM			
			-20°C	0°C	20°C	40°C
8750	SL	68	695	655	620	475
	2000	69	655	615	580	390
	4000	69	615	580	500	305
	6000	70	580	545	410	230
	8000	70	540	475	330	165
	10000	71	505	390	250	---
	12000	72	420	305	180	---
8300	SL	66	770	725	690	535
	2000	66	730	685	650	445
	4000	67	690	650	565	360
	6000	68	645	610	470	280
	8000	68	605	540	380	210
	10000	69	570	445	300	---
	12000	69	475	355	225	---
7800	SL	61	860	815	775	615
	2000	62	820	775	735	515
	4000	62	775	730	640	425
	6000	62	730	690	540	340
	8000	63	690	615	445	265
	10000	63	645	515	360	---
	12000	63	550	420	280	---
7300	SL	59	970	920	875	700
	2000	59	920	875	830	595
	4000	59	875	830	730	500
	6000	59	830	780	620	405
	8000	59	780	700	520	330
	10000	59	735	595	430	---
	12000	59	630	490	340	---

Figure 5-13. Takeoff Climb Gradient - Flaps Up

CARGO POD INSTALLED
CRUISE CLIMB
FLAPS UP - 115 KIAS

CONDITIONS:

1900 RPM

INERTIAL SEPARATOR - NORMAL

NOTE

1. Torque set at 1865 foot-pounds or lesser value must not exceed maximum climb ITT of 765°C or N_g or 101.6%.
2. With climb power set below the torque limit, decrease rate of climb by 50 FPM for inertial separator in BYPASS and 70 FPM for cabin heat ON.
3. Where rate of climb values have been replaced by dashes, an appreciable rate of climb for the weight shown cannot be expected or operating temperature limits of the airplane would be greatly exceeded. Those rates of climb which are included but the operation slightly exceeds the temperature limit are provided for interpolation purposes only.

WEIGHT LBS	PRESS ALT FT	RATE OF CLIMB - FPM				
		-40°C	-20°C	0°C	20°C	40°C
8750	SL	940	915	890	865	635
	2000	915	890	865	840	495
	4000	890	865	835	715	355
	6000	865	835	805	570	225
	8000	835	800	710	425	105
	10000	800	765	555	285	---
	12000	765	625	400	145	---
8300	SL	1015	990	970	945	700
	2000	995	970	945	915	555
	4000	970	940	915	790	410
	6000	945	910	880	635	275
	8000	915	880	785	485	150
	10000	880	845	625	340	30
	12000	845	695	460	195	---
7800	SL	1115	1090	1065	1040	780
	2000	1090	1065	1040	1010	630
	4000	1065	1040	1010	880	475
	6000	1040	1005	975	715	330
	8000	1010	975	875	555	200
	10000	975	935	705	405	75
	12000	935	780	535	250	---
7300	SL	1220	1195	1175	1150	870
	2000	1195	1170	1145	1120	710
	4000	1170	1145	1115	975	550
	6000	1145	1115	1080	805	395
	8000	1115	1080	975	635	255
	10000	1080	1040	795	475	125
	12000	1040	875	615	310	---

Figure 5-14. Cruise Climb - Flaps Up - 115 KIAS

CARGO POD INSTALLED RATE OF CLIMB - BALKED LANDING FLAPS 30°

CONDITIONS:
TAKEOFF POWER
1900 RPM
INERTIAL SEPARATOR - NORMAL

NOTE

1. Do not exceed torque limit for takeoff per ENGINE TORQUE FOR TAKEOFF chart. When ITT exceeds 765°C, this power setting is time limited to 5 minutes.
2. With climb power set below the torque limit, decrease rate of climb by 15 FPM for inertial separator in BYPASS and 45 FPM for cabin heat ON.
3. Where rate of climb values have been replaced by dashes, operating temperature limits of the airplane would be greatly exceeded. Those rates of climb which are included but the operation slightly exceeds the temperature limit are provided for interpolation purposes only.

WEIGHT LBS	PRESS ALT FT	CLIMB SPEED KIAS	RATE OF CLIMB - FPM			
			-20°C	0°C	20°C	40°C
8500	SL	83	805	780	760	735
	2000	82	780	755	735	670
	4000	81	755	730	705	590
	6000	80	730	700	675	495
	8000	79	700	670	560	380
	10000	78	665	600	440	---
	12000	77	620	480	325	---
8000	SL	82	895	870	850	830
	2000	81	870	850	825	760
	4000	80	845	820	795	675
	6000	79	820	795	765	580
	8000	78	790	760	645	460
	10000	77	760	690	525	---
	12000	76	710	565	405	---
7500	SL	81	995	975	950	930
	2000	80	975	950	925	860
	4000	79	950	925	900	775
	6000	78	920	895	870	675
	8000	77	890	865	745	550
	10000	75	860	790	620	---
	12000	74	810	660	490	---
7000	SL	80	1105	1085	1065	1045
	2000	79	1085	1065	1040	970
	4000	78	1060	1035	1010	880
	6000	77	1035	1010	980	780
	8000	75	1005	975	850	645
	10000	74	970	900	720	---
	12000	73	920	765	590	---

Figure 5-15. Rate of Climb - Balked Landing

CARGO POD INSTALLED TIME, FUEL, AND DISTANCE TO CLIMB MAXIMUM RATE OF CLIMB

CONDITIONS:

FLAPS UP

1900 RPM

INERTIAL SEPARATOR - NORMAL

NOTE

1. Torque set at 1865 FT-LBS or lesser value must not exceed maximum climb ITT of 765°C or N_g of 101.6%.
2. Add 35 pounds of fuel for engine start, taxi, and takeoff allowances.
3. Distances shown are based on zero wind.
4. With inertial separator set in BYPASS, increase time, fuel, and distance numbers by 1% for each 2000 feet of climb and for cabin heat ON increase time, fuel, and distance numbers by 1% for each 1000 feet of climb.
5. Where time, fuel and distance values have been replaced by dashes, an appreciable rate of climb for the weight shown cannot be expected.

WEIGHT LBS	PRESS ALT FT	CLIMB SPEED KIAS	CLIMB FROM SEA LEVEL								
			20° C BELOW STANDARD TEMP			STANDARD TEMPERATURE			20° C ABOVE STANDARD TEMP		
			TIME MIN	FUEL LBS	DIST NM	TIME MIN	FUEL LBS	DIST NM	TIME MIN	FUEL LBS	DIST NM
8750	SL	104	0	0	0	0	0	0	0	0	0
	4000	104	4	32	8	5	33	8	6	38	10
	8000	104	9	64	16	9	66	17	12	80	24
	12000	101	14	98	25	15	105	29	22	132	43
	16000	95	20	136	37	23	152	45	35	202	71
	20000	87	28	186	54	36	219	72	69	349	142
	24000	78	0	0	0	---	---	---	---	---	---
8300	SL	103	0	0	0	0	0	0	0	0	0
	4000	103	4	29	7	4	30	7	5	34	9
	8000	103	8	58	14	8	60	15	11	72	21
	12000	100	13	89	23	14	95	26	19	116	37
	16000	94	18	123	33	21	135	40	30	172	60
	20000	86	25	165	47	31	189	61	51	265	104
	24000	77	40	233	76	54	287	106	---	---	---
7800	SL	101	0	0	0	0	0	0	0	0	0
	4000	101	4	26	6	4	27	6	4	30	8
	8000	101	7	52	13	8	54	14	10	63	18
	12000	98	11	80	20	12	84	22	16	100	31
	16000	91	16	110	29	18	119	34	25	145	49
	20000	83	22	146	41	27	163	51	40	210	79
	24000	73	33	198	62	42	229	81	---	---	---
7300	SL	99	0	0	0	0	0	0	0	0	0
	4000	99	3	24	5	3	24	6	4	27	7
	8000	99	7	47	11	7	49	12	9	55	16
	12000	96	10	72	18	11	75	20	14	87	27
	16000	88	14	99	25	16	105	30	21	124	41
	20000	80	20	129	35	23	141	43	32	173	63
	24000	69	29	171	52	34	191	65	---	---	---

Figure 5-16. Time, Fuel, and Distance to Climb (Sheet 1 of 2)

CARGO POD INSTALLED

TIME, FUEL, AND DISTANCE TO CLIMB

CRUISE CLIMB - 115 KIAS

CONDITIONS:

FLAPS UP

1900 RPM

INERTIAL SEPARATOR - NORMAL

NOTE

1. Torque set at 1865 FT-LBS or lesser value must not exceed maximum climb ITT of 765°C or N_g of 101.6%.
2. Add 35 pounds of fuel for engine start, taxi, and takeoff allowances.
3. Distances shown are based on zero wind.
4. With inertial separator set in BYPASS or cabin heat ON, increase time, fuel, and distance numbers by 1% for each 1000 feet of climb.

WEIGHT LBS	PRESS ALT FT	CLIMB FROM SEA LEVEL								
		20° C BELOW STANDARD TEMP			STANDARD TEMPERATURE			20° C ABOVE STANDARD TEMP		
		TIME MIN	FUEL LBS	DIST NM	TIME MIN	FUEL LBS	DIST NM	TIME MIN	FUEL LBS	DIST NM
8750	SL	0	0	0	0	0	0	0	0	0
	2000	2	17	4	2	17	5	3	20	6
	4000	5	33	9	5	35	9	6	42	13
	6000	7	50	14	7	53	15	10	65	20
	8000	10	68	19	10	71	20	14	91	30
	10000	12	86	24	13	92	27	19	122	42
	12000	15	105	30	17	115	35	26	159	58
8300	SL	0	0	0	0	0	0	0	0	0
	2000	2	15	4	2	16	4	3	18	5
	4000	4	31	8	4	32	9	6	38	11
	6000	6	46	12	7	48	13	9	59	18
	8000	9	62	17	9	65	18	13	82	27
	10000	11	79	22	12	84	24	17	108	37
	12000	13	96	27	15	104	32	23	140	50
7800	SL	0	0	0	0	0	0	0	0	0
	2000	2	14	4	2	14	4	2	17	5
	4000	4	28	7	4	29	8	5	34	10
	6000	6	42	11	6	44	12	8	52	16
	8000	8	56	16	8	59	17	11	73	24
	10000	10	71	20	11	75	22	15	95	33
	12000	12	87	25	14	94	29	20	122	44
7300	SL	0	0	0	0	0	0	0	0	0
	2000	2	13	3	2	13	4	2	15	4
	4000	4	25	7	4	26	7	5	30	9
	6000	5	38	10	5	39	11	7	47	15
	8000	7	51	14	7	53	15	10	65	21
	10000	9	64	18	10	68	20	13	85	29
	12000	11	78	22	12	84	26	17	107	38

Figure 5-16. Time, Fuel, and Distance to Climb (Sheet 2 of 2)

CARGO POD INSTALLED FUEL AND TIME REQUIRED

MAXIMUM CRUISE POWER (40-200 Nautical Miles)

CONDITIONS:

8750 Pounds
1900 RPM

Standard Temperature
Inertial Separator-Normal

1. Fuel required includes the fuel used for engine start, taxi, takeoff, maximum climb from sea level, descent to sea level and 45 minutes reserve. Time required includes the time during a maximum climb and descent.
2. With inertial separator in **BYPASS**, increase time by 4% and fuel by 2% or with cabin heat **ON**, increase time by 3% and fuel by 2%.

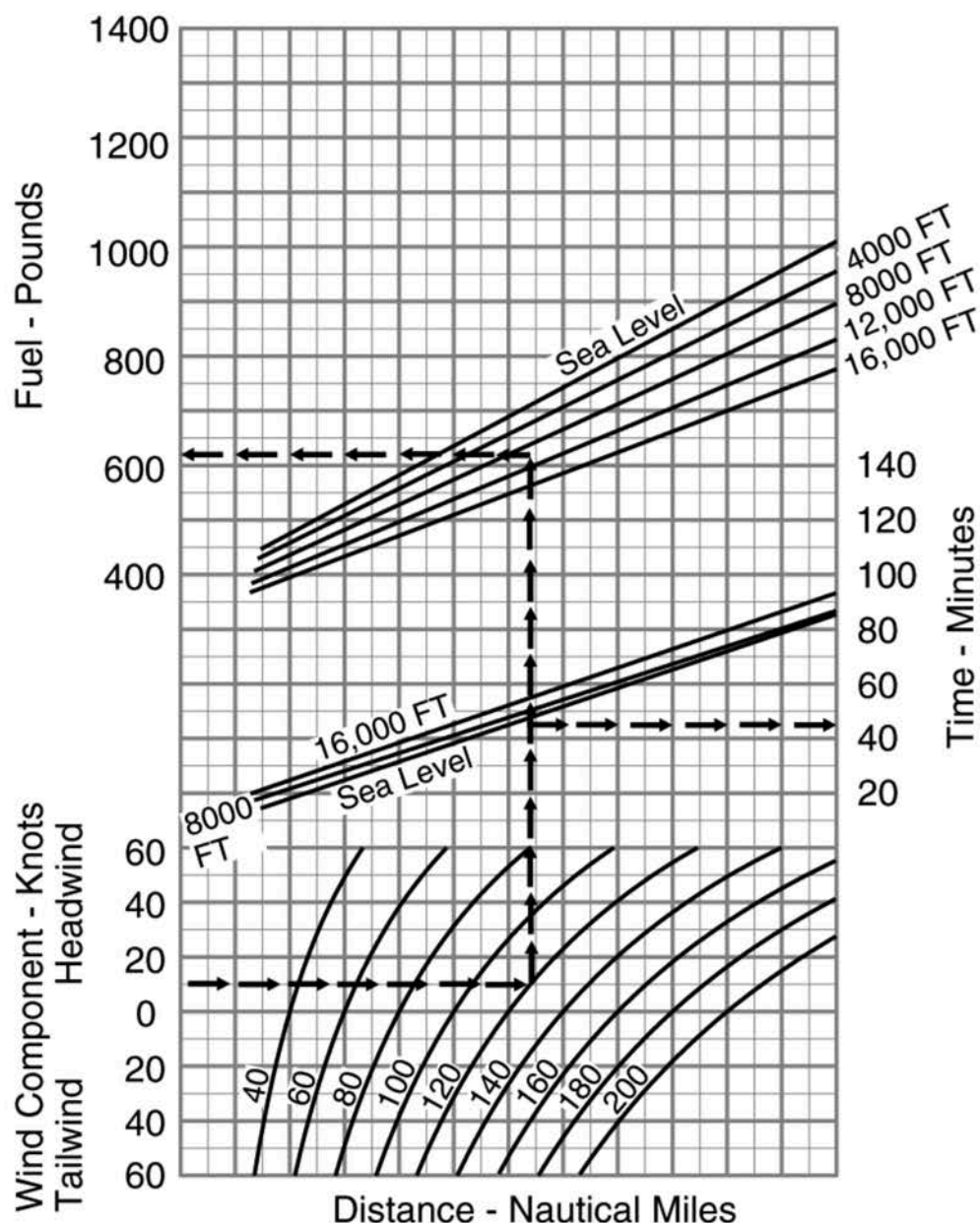


Figure 5-18. Fuel and Time Required - Maximum Cruise Power
40-200 Nautical Miles (Sheet 1 of 2)

CARGO POD INSTALLED FUEL AND TIME REQUIRED

MAXIMUM CRUISE POWER (200-1000 Nautical Miles)

CONDITIONS:

8750 Pounds
1900 RPM

Standard Temperature
Inertial Separator-Normal

1. Fuel required includes the fuel used for engine start, taxi, takeoff, maximum climb from sea level, descent to sea level and 45 minutes reserve. Time required includes the time during a maximum climb and descent.
2. With inertial separator in **BYPASS**, increase time by 5% and fuel by 2%, or with cabin heat **ON**, increase time by 5% and fuel by 4%.

A39933

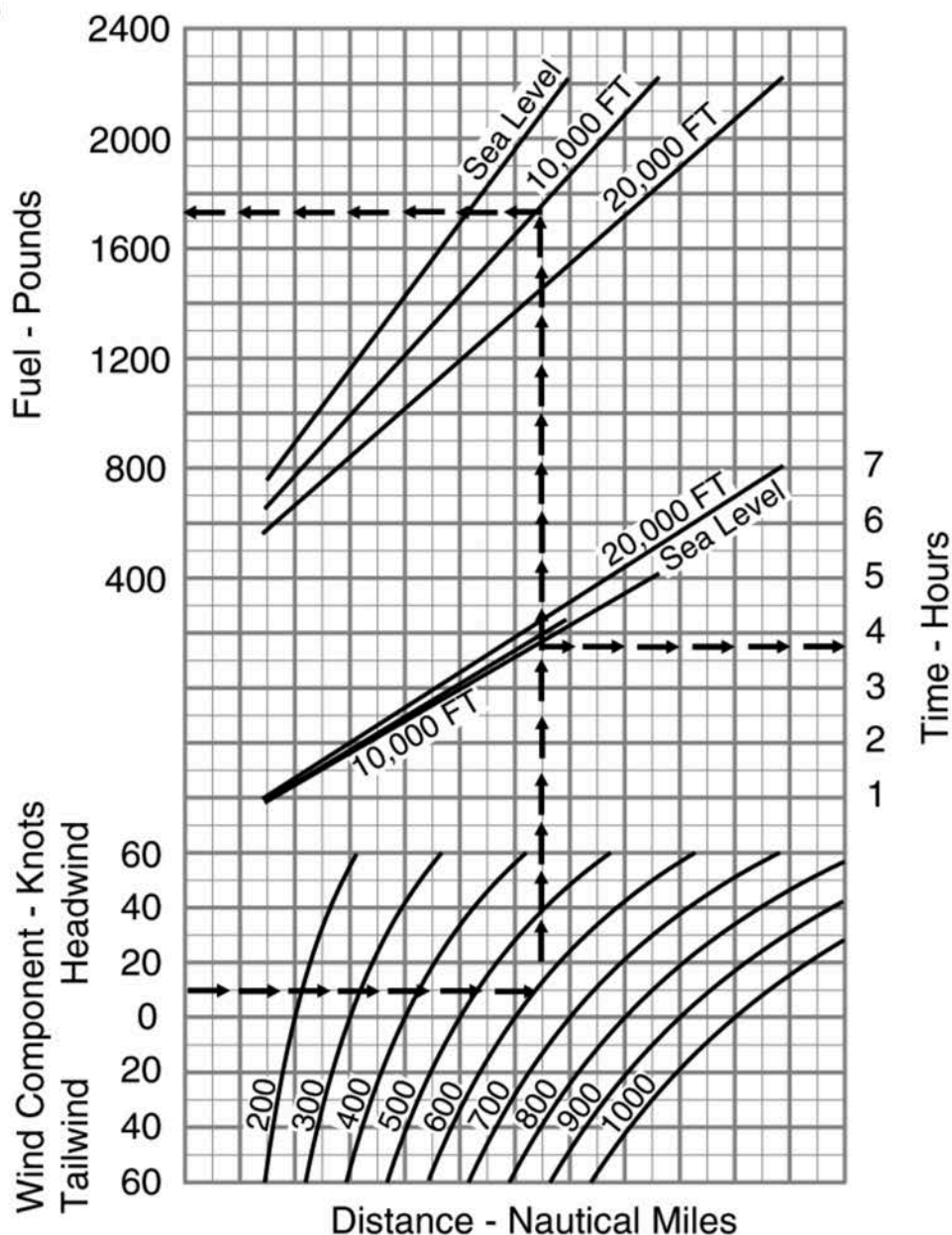


Figure 5-18. Fuel and Time Required - Maximum Cruise Power
200-1000 Nautical Miles (Sheet 2 of 2)

CARGO POD INSTALLED
FUEL AND TIME REQUIRED
MAXIMUM RANGE POWER (40-200 Nautical Miles)

CONDITIONS:

8750 Pounds

Standard Temperature

1900 RPM

Inertial Separator - Normal

1. Fuel required includes the fuel used for engine start, taxi, takeoff, maximum climb from sea level, descent to sea level and 45 minutes reserve. Time required includes the time during a maximum climb and descent.
2. With inertial separator in **BYPASS**, increase time by 1% and fuel by 2%, or with cabin heat **ON**, increase time by 1% and fuel by 3%.

A39934

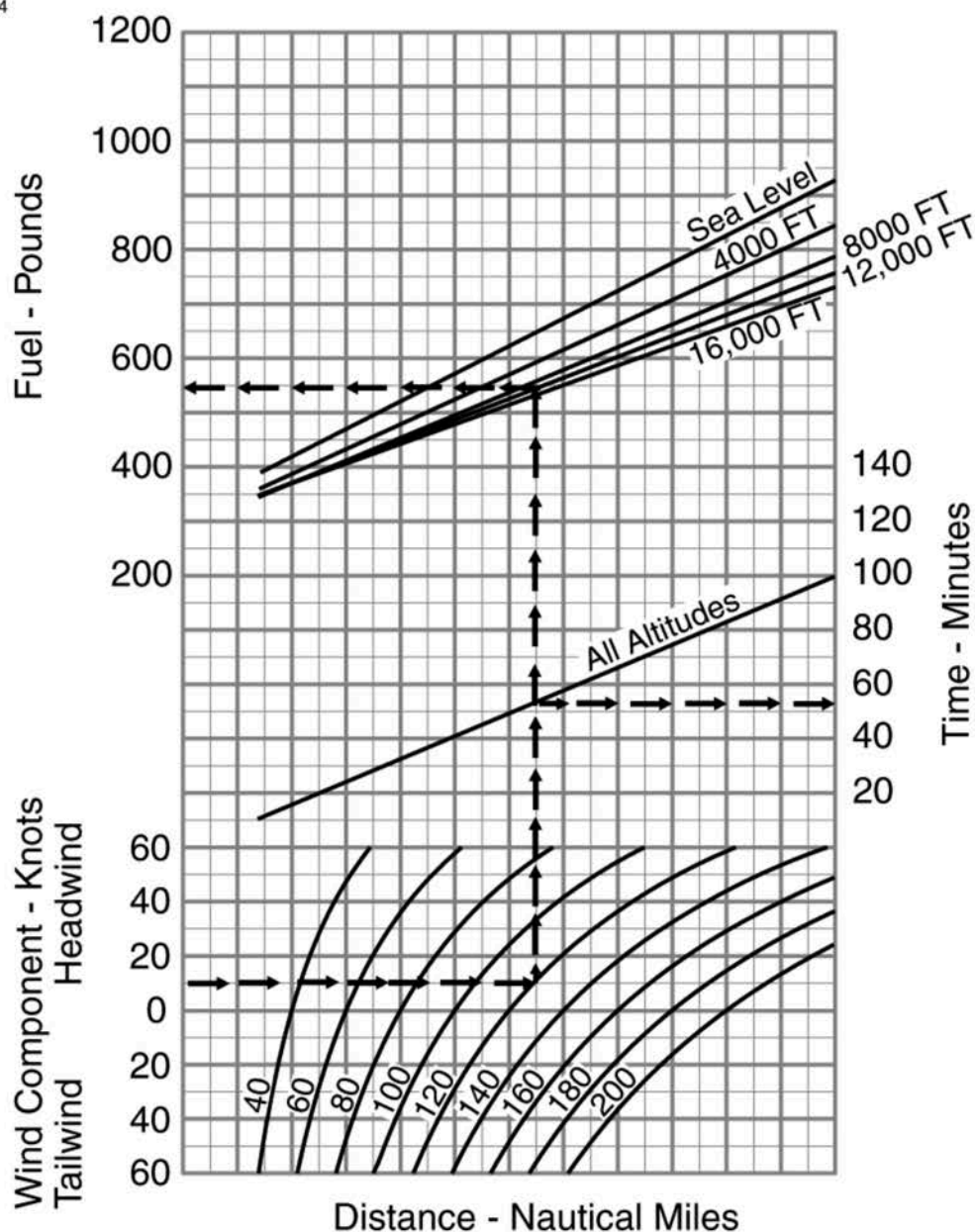


Figure 5-19. Fuel and Time Required - Maximum Range
40-200 Nautical Miles (Sheet 1 of 2)

CARGO POD INSTALLED FUEL AND TIME REQUIRED

MAXIMUM RANGE POWER (200-1000 Nautical Miles)

CONDITIONS:

8750 Pounds Standard Temperature
1900 RPM Inertial Separator - Normal

1. Fuel required includes the fuel used for engine start, taxi, takeoff, maximum climb from sea level, descent to sea level and 45 minutes reserve. Time required includes the time during a maximum climb and descent.
2. With inertial separator in **BYPASS**, increase time by 1% and fuel by 2%, or with cabin heat **ON**, increase time by 1% and fuel by 3%.

A39935

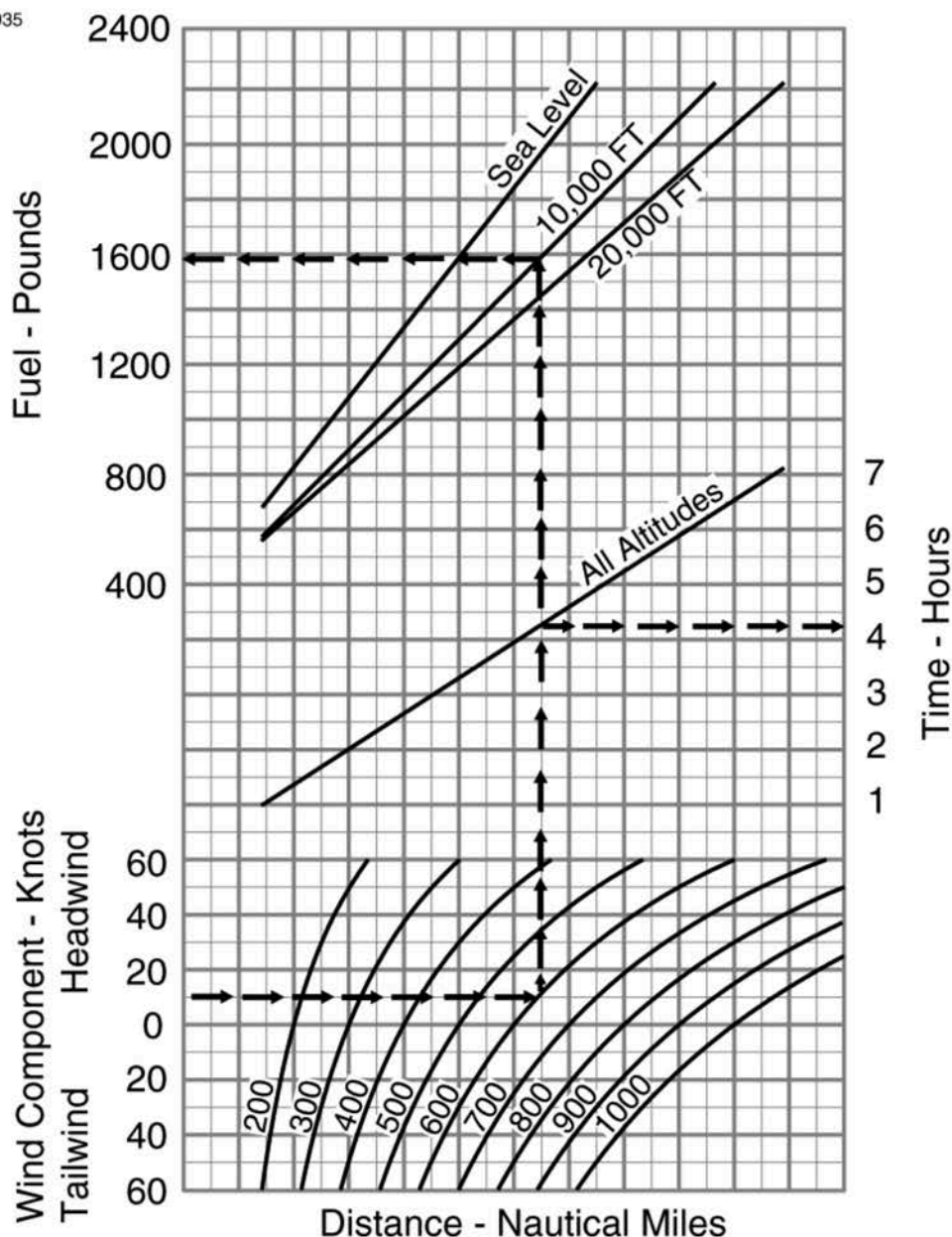
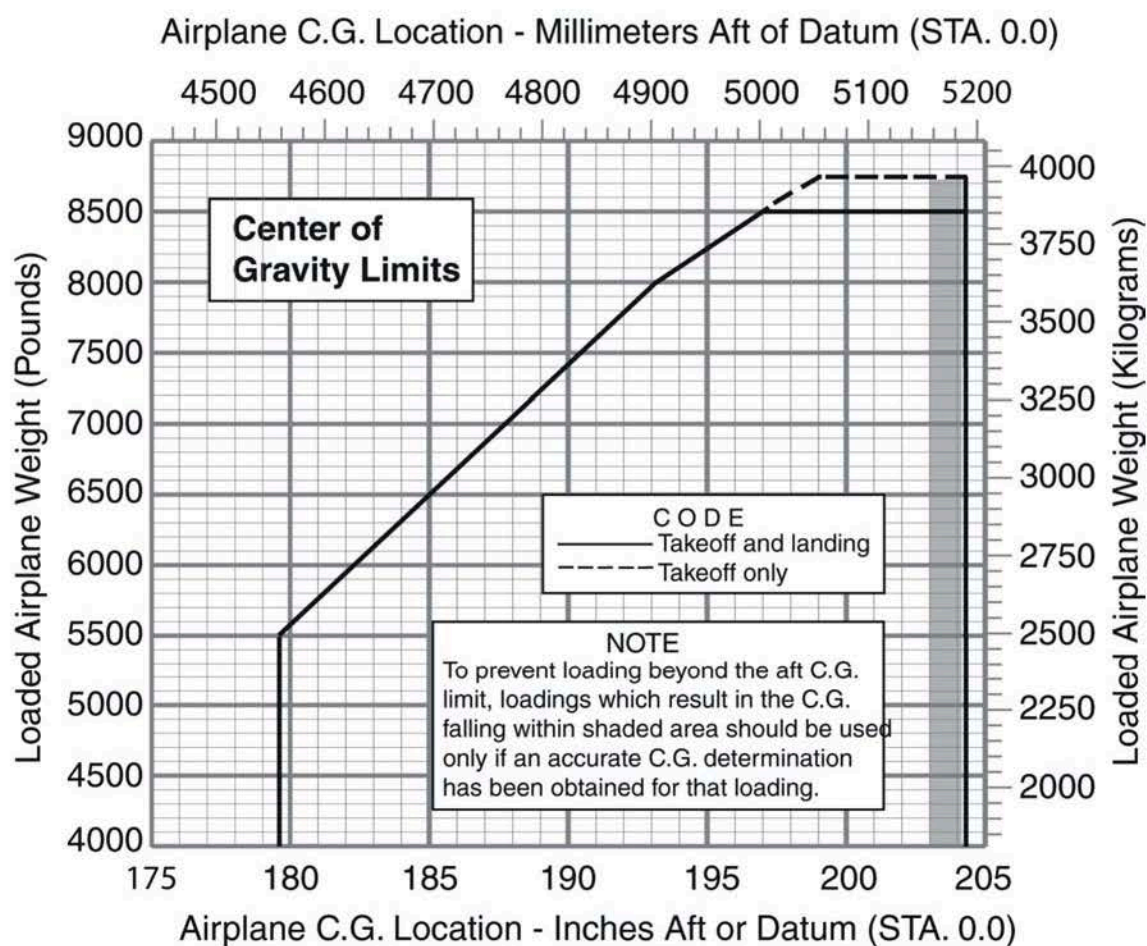


Figure 5-19. Fuel and Time Required - Maximum Range
200-1000 Nautical Miles (Sheet 2 of 2)

A39983



WARNING

IT IS THE RESPONSIBILITY OF THE PILOT TO MAKE SURE THAT THE AIRPLANE IS LOADED CORRECTLY. OPERATION OUTSIDE OF PRESCRIBED WEIGHT AND BALANCE LIMITATIONS COULD RESULT IN AN ACCIDENT AND SERIOUS OR FATAL INJURY.

Figure 6-18. Center of Gravity Limits