



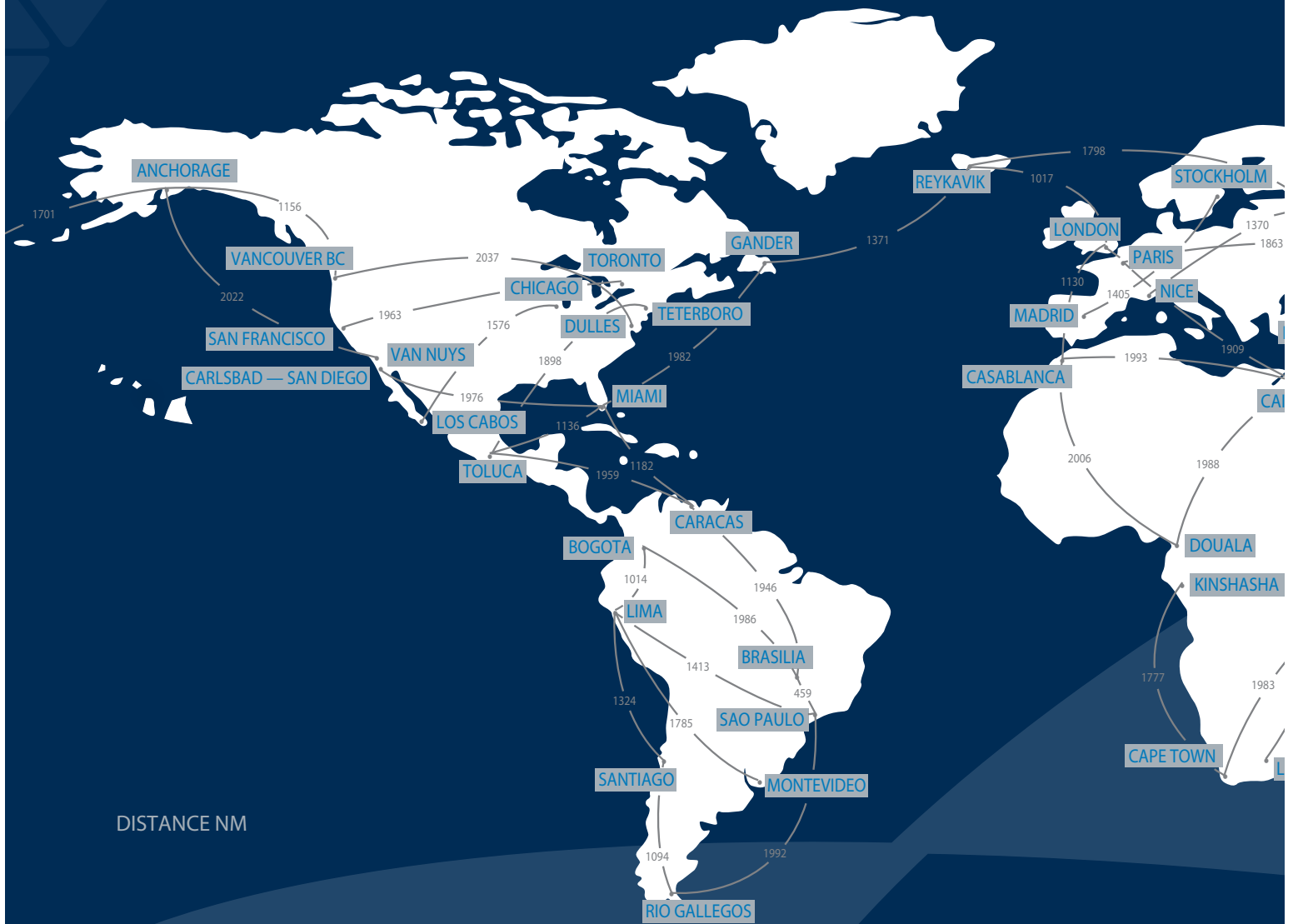
MISSION-RANGE
CAPABILITY

www.spectrum.aero

760.444.0180

Spectrum Aeronautical LLC 2036 Palomar Airport Road Carlsbad, CA 92011

MISSION - RANGE CAPABILITY



DISTANCE NM

Freedom
S.40

Single Pilot capable • Cruising speeds over 500 mph (Mach 0.77 / 440 kts)

All specifications are preliminary and subject to change



MISSION - RANGE CAPABILITY



DISTANCE NM

Freedom S.40

Cruising altitudes up to 45000 ft • Cabin accommodations for seven to nine passengers

All specifications are preliminary and subject to change



THE AMERICAS FLIGHT TIME — FUEL USED CHART



REDEFINING MID SIZE EFFICIENCY

300 nm	600 nm	1,000 nm
Flight Time (Hr + Min): 0+47	Flight Time (Hr + Min): 1+26	Flight Time (Hr + Min): 2+32
Fuel Used (Lbs): 706	Fuel Used (Lbs): 1103	Fuel Used (Lbs): 1654
Altitude: FL350	Altitude: FL410	Altitude: FL410

Missions calculated per NBAA IFR flight profiles, pilot plus four passengers

Flight Time (Hours + Min - Takeoff to Landing)

	Atlanta	Caracas	Chicago	Dallas	Mexico City	Miami	San Diego	San Fransisco	Toronto	Washington DC
Bogota (SKBO)	5+26	1+23	5+41	6+22	4+58	3+37	8+31	9+38	6+57	6+15
Boston (BOS)	2+05	5+45	1+52	3+43	5+57	2+55	6+40	6+54	0+55	0+50
Cabo San Lucas (MMSD)	4+12	7+30	4+34	2+23	1+36	4+41	1+47	2+56	5+52	5+47
Caracas (SVMl)	4+55	-	6+31	6+24	5+48	3+13	8+54	9+55	6+20	5+15
Chicago (PWK)	1+16	6+31	-	1+36	4+08	2+44	4+15	4+37	0+55	1+17
Dallas (DAL)	1+34	6+24	1+46	-	2+05	2+32	2+43	3+31	2+46	2+43
Denver (DEN)	2+47	7+47	2+03	1+26	3+26	4+14	1+50	2+07	3+09	3+33
Lima (SPIM)	7+55	4+11	9+36	8+28	6+46	6+46	10+24	11+49	9+47	8+52
Los Angeles (VNY)	4+51	9+07	4+17	2+52	3+43	6+09	0+15	0+44	5+36	6+00
Mexico City (MMTO)	3+09	5+48	4+08	2+05	-	2+59	3+25	4+43	5+09	4+42
Miami (MIA)	1+18	3+13	2+44	2+32	2+59	-	5+55	6+41	2+52	2+04
New York (TEB)	1+38	5+29	1+33	3+13	5+21	2+29	6+22	6+38	0+43	0+27
Panama City (MPTO)	4+16	1+55	6+07	4+60	3+34	2+39	7+22	8+22	6+18	5+17
San Diego (CLD)	4+43	8+54	4+15	2+43	3+25	5+55	-	0+58	5+35	5+56
San Francisco (SFO)	5+29	9+55	4+37	3+31	4+43	6+41	0+58	-	5+54	6+23
Toronto (CYYZ)	1+36	6+20	0+55	2+46	5+09	2+52	5+35	5+54	-	0+45
Vancouver (CYVR)	5+50	10+42	4+22	4+21	6+24	7+08	2+43	1+45	5+20	6+08
Washington DC (IAD)	1+10	5+41	1+17	2+43	4+42	2+04	5+56	6+23	0+45	-

Freedom data preliminary and subject to change

Freedom S.40 Fuel Used (lbs)

	Atlanta	Caracas	Chicago	Dallas	Mexico City	Miami	San Diego	San Fransisco	Toronto	Washington DC
Bogota (SKBO)	2,577	1,034	2,692	3,165	2,439	1,989	4,273	4,714	3,508	3,091
Boston (BOS)	1,372	2,669	1,274	2,024	2,725	1,721	3,343	3,480	0791	0749
Cabo San Lucas (MMSD)	2,193	3,801	2,310	1,500	1,146	2,351	1,231	1,731	2,701	2,676
Caracas (SVMl)	2,421	-	3,253	3,179	2,684	1,837	4,434	4,821	3,137	2,523
Chicago (PWK)	0977	3,253	-	1,146	2,168	1,649	2,208	2,327	0798	0985
Dallas (DAL)	1,128	3,179	1,225	-	1,370	1,562	1,640	1,954	1,664	1,640
Denver (DEN)	1,670	3,939	1,352	1,063	1,919	2,201	1,257	1,384	1,810	1,963
Lima (SPIM)	4,003	2,185	4,702	4,249	3,399	3,399	4,988	5,421	4,770	4,422
Los Angeles (VNY)	2,403	4,523	2,218	1,699	2,023	2,777	0406	0693	2,627	2,740
Mexico City (MMTO)	1,810	2,684	2,168	1,370	-	1,748	1,916	2,360	2,493	2,356
Miami (MIA)	0988	1,837	1,649	1,562	1,748	-	2,716	3,357	1,699	1,360
New York (TEB)	1,161	2,594	1,119	1,841	2,552	1,546	3,159	3,327	0686	0523
Panama City (MPTO)	2,213	1,293	2,768	2,448	1,970	1,617	3,732	4,207	3,118	2,535
San Diego (CLD)	2,360	4,434	2,208	1,640	1,916	2,716	-	0824	2,621	2,718
San Francisco (SFO)	2,594	4,821	2,327	1,954	2,360	3,357	824	-	2,713	3,168
Toronto (CYVR)	1,148	3,137	0798	1,664	2,493	1,699	2,621	2,713	-	0698
Vancouver (CYVR)	2,691	5,084	2,249	2,243	3,188	3,612	1,643	1,214	2,549	2,774
Washington DC (IAD)	0923	2,692	0985	1,640	2,356	1,360	2,718	3,168	0697	-

EUROPE - MIDDLE EAST FLIGHT TIME — FUEL USED CHART



REDEFINING MID SIZE EFFICIENCY

300 nm	600 nm	1,000 nm
Flight Time (Hr + Min): 0+47	Flight Time (Hr + Min): 1+26	Flight Time (Hr + Min): 2+32
Fuel Used (Lbs): 706	Fuel Used (Lbs): 1103	Fuel Used (Lbs): 1654
Altitude: FL350	Altitude: FL410	Altitude: FL410

Missions calculated per NBAA IFR flight profiles, pilot plus four passengers

Flight Time (Hours + Min - Takeoff to Landing)

	NON-STOP							ONE-STOP					
	Athens	Berlin	Cairo	Dubai	Istanbul	London	Madrid	Moscow	Nice	Paris	Rome	Ryadh	Stockholm
Athens	-	2+33	1+31	5+12	0+44	3+32	3+30	3+16	2+07	3+02	1+25	3+57	3+34
Berlin	2+33	-	4+26	7+17	2+27	1+14	2+40	2+15	1+27	1+10	1+36	6+41	1+04
Cairo	1+31	4+26	-	3+36	1+41	5+38	5+19	4+28	3+55	5+03	3+06	2+18	5+25
Dubai	5+12	7+17	3+36	-	4+38	8+33	8+51	5+59	7+30	8+12	6+53	1+09	7+29
Istanbul	0+44	2+27	1+41	4+38	-	3+44	4+09	2+29	2+33	3+18	1+53	3+38	3+10
London	3+32	1+14	5+38	8+33	3+44	-	1+43	3+44	1+23	0+27	1+59	7+45	1+58
Madrid	3+30	2+40	5+19	8+51	4+09	1+43	-	5+30	1+18	1+25	1+52	7+47	3+54
Moscow	3+16	2+15	4+28	5+59	2+29	5+30	5+30	-	3+47	3+42	3+31	5+41	1+40
Nice	2+07	1+27	3+55	7+30	2+33	1+18	1+18	3+47	-	0+54	0+37	6+39	2+41
Paris	3+02	1+10	5+03	8+12	3+18	1+25	1+25	3+42	0+54	-	1+29	7+23	2+09
Rome	1+25	1+36	3+06	6+53	1+53	1+52	1+52	3+31	0+37	1+29	-	5+59	2+50
Riyadh	3+57	6+41	2+18	1+09	3+38	7+45	7+47	5+41	6+39	7+23	5+59	-	7+30
Stockholm	3+34	1+04	5+25	7+29	3+10	3+54	3+54	1+40	2+41	2+09	2+50	7+03	-

Freedom data preliminary and subject to change

Freedom S.40 Fuel Used (lbs)

	Athens	Berlin	Cairo	Dubai	Istanbul	London	Madrid	Moscow	Nice	Paris	Rome	Ryadh	Stockholm
Athens	-	1,575	1,102	2,507	0695	1,959	1,945	1,857	1,382	1,768	1,053	2,108	1,970
Berlin	1,575	-	2,270	3,692	1,530	0966	1,618	1,442	1,074	0927	1,146	3,357	0878
Cairo	1,102	2,270	-	1,981	1,184	2,636	2,544	2,277	2,092	2,461	1,792	1,464	2,575
Dubai	2,507	3,692	1,981	-	2,332	4,288	4,412	2,734	3,803	4,133	3,471	0920	3,787
Istanbul	0695	1,530	1,184	2,332	-	2,029	2,177	1,542	1,575	1,873	1,282	1,996	1,820
London	1,959	0966	2,636	4,288	2,029	-	1,202	2,029	1,035	0530	1,322	3,923	1,320
Madrid	1,945	1,618	2,544	4,412	2,177	1,202	-	2,596	0998	1,054	1,273	3,937	2,088
Moscow	1,857	1,442	2,277	2,734	1,542	2,029	2,596	-	2,048	2,019	1,950	2,650	1,178
Nice	1,382	1,074	2,092	3,803	1,575	1,035	0998	2,048	-	0787	0626	3,339	1,629
Paris	1,768	0927	2,461	4,133	1,873	0530	1,054	2,019	0787	-	1,091	3,736	1,398
Rome	1,053	1,146	1,792	3,471	1,282	1,322	1,273	1,950	0626	1,091	-	2,732	1,690
Riyadh	2,108	3,357	1,464	0920	1,996	3,923	3,937	2,650	3,339	3,736	2,732	-	3,565
Stockholm	1,970	0878	2,575	3,787	1,820	1,320	2,088	1,178	1,629	1,398	1,690	3,565	-

THE ASIA & THE PACIFIC RIM FLIGHT TIME — FUEL USED CHART

REDEFINING MID SIZE EFFICIENCY

300 nm	600 nm	1,000 nm
Flight Time (Hr + Min): 0+47	Flight Time (Hr + Min): 1+26	Flight Time (Hr + Min): 2+32
Fuel Used (Lbs): 706	Fuel Used (Lbs): 1103	Fuel Used (Lbs): 1654
Altitude: FL350	Altitude: FL410	Altitude: FL410

Missions calculated per NBAA IFR flight profiles, pilot plus four passengers

Flight Time (Hours + Min - Takeoff to Landing)

Flight Time (Hours + Min - Takeoff to Landing)							NON-STOP	ONE-STOP	TWO-STOP		
	Beijing	Brisbane	Chengdu	Darwin	Delhi	Hong Kong	Hyderbad	Manila	Perth	Singapore	Tokyo
Beijing (ZBAA)	-	13+26	2+10	9+26	6+15	2+51	7+04	4+24	12+54	7+06	4+34
Brisbane (YBBN)	13+28	-	13+18	4+22	16+21	11+7	15+03	9+04	5+51	9+41	11+29
Chengdu (ZUUU)	2+06	13+18	-	8+43	3+55	1+51	4+36	3+43	11+20	5+06	5+29
Darwin (YPDN)	9+27	4+22	8+43	-	11+57	6+49	11+31	4+58	3+60	5+18	8+29
Delhi (VIDP)	6+11	16+21	3+55	11+57	-	6+08	1+43	7+31	12+45	6+40	9+18
Dubai (OMDB)	9+09	-	7+31	14+38	3+12	9+19	3+49	11+06	14+24	9+10	12+56
Hong Kong (VHHH)	2+49	11+07	1+51	6+49	6+08	-	6+08	1+42	9+27	3+50	4+35
Hyderabad (VOHS)	7+01	15+03	4+36	11+31	1+43	6+08	-	7+11	10+48	5+40	10+08
Jakarta (WIII)	8+10	8+31	6+34	4+11	7+48	5+07	6+32	4+15	4+41	1+10	9+08
Manila (RPLL)	4+22	9+04	3+43	4+58	7+31	1+42	7+13	-	8+06	3+31	4+44
Mumbai (VABB)	7+28	16+06	5+2	11+58	1+32	6+50	0+49	8+03	11+49	6+23	10+52
Singapore (WSSS)	7+05	9+41	5+06	5+18	6+40	3+50	5+17	3+31	6+21	-	8+22
Taipei (RCTP)	2+25	10+45	2+34	6+50	6+58	1+04	7+09	1+35	10+01	5+03	3+11
Tokyo (RJAA)	3+02	11+29	5+29	8+29	9+18	4+35	10+08	4+44	12+50	8+22	-

Freedom data preliminary and subject to change

Freedom S.40 Fuel Used (lbs)

	Beijing	Brisbane	Chengdu	Darwin	Delhi	Hong Kong	Hyderbad	Manila	Perth	Singapore	Tokyo
Beijing (ZBAA)	-	6,467	1,407	4,640	3,089	1,698	3,572	2,258	6,172	3,587	1,798
Brisbane (YBBN)	6,479	-	6,395	2,248	7,699	5,218	7,214	4,503	2,698	4,733	5,328
Chengdu (ZUUU)	1,375	6,395	-	4,354	2,095	1,265	2,324	2,025	5,281	2,479	2,590
Darwin (YPDN)	4,647	2,248	4,354	-	5,461	3,431	5,338	2,440	2,122	2,539	4,261
Delhi (VIDP)	3,045	7,699	2,095	5,461	-	2,775	1,201	3,808	6,084	3,347	4,591
Dubai (OMDB)	4,531	-	3,811	7,035	1,829	4,597	2,060	5,210	6,930	4,542	6,186
Hong Kong (VHHH)	1,679	5,218	1,265	3,431	2,775	-	2,775	1,189	4,647	2,065	2,316
Hyderabad (VOHS)	3,542	7,214	2,324	5,338	1,201	2,776	-	3,635	5,115	2,520	4,895
Jakarta (WIII)	4,118	4,270	3,287	2,185	3,950	2,483	3,263	2,208	2,349	0928	4,528
Manila (RPLL)	2,246	4,503	2,025	2,440	3,808	1,189	3,652	-	4,084	1,949	2,366
Mumbai (VABB)	3,785	7,609	2,560	5,465	1,113	3,442	0741	4,066	5,422	3,171	5,139
Singapore (WSSS)	3,583	4,733	2,479	2,539	3,347	2,065	2,520	1,949	3,151	-	4,209
Taipei (RCTP)	1,516	5,103	1,577	3,442	3,517	0877	3,613	1,138	4,855	2,466	1,826
Tokyo (RJAA)	1,767	5,328	2,590	4,261	4,591	2,316	4,895	2,366	6,129	4,209	-