A supplement for use with

STAR TREK®
THE ROLE PLAYING GAME

2204S - Romulan

STARSHIP CONSTRUCTION MANUAL

ROMULAN STAR EMPIRE

COMPUTER CONTROL SYSTEM TYPES

Control Computer Type	System Mass (mt)	Approrpiate Ship Classes	SS Requirement	Maximum WDF Allowed	Availability	Cost (MCr)	Year
R-1M	60	I-III	0.1	3	RRR/43	6	2220
R-2M	690	II-IX	0.5	8	RRR/39	24	2226
R-3M	1,950	II-X	0.8	25	RRR/32	34	2233
R-4M	3,170	III-XII	1	50	RRR/28	70	2241
R-5M	5,250	VI-XV	1.8	75	RRR/14	100	2249
R-5M-1	5,600	VII-XVI	1.9	95	RRR/13	127	2290
R-6M	8,100	X-XIX	2.1	105	RRR/3	230	2264
R-6M-1	9,200	X-XVIII	2.2	140	RRR/12	306	2268
R-7M	10,304	XI-XX	3	170	RRR/11	372	2284
R-7M-1	11,005	XI-XX	3.2	195	RRR/11	427	2287
R-8M	11,355	XII-XX	4.1	215	RRR/10	470	2290
R-9M	12,600	XIII-XX	5.6	250	RRR/9	547	2316
R-9M-1	14,125	XII-XX	7.8	295	RRR/8	646	2325
R-10M	15,876	XIII-XX	6.1	315	RRR/8	790	2333
R-11M	17,136	XIV-XX	6.6	340	RRR/7	850	2335
R-12M	19,152	XV-XX	7.4	380	RRR/6	950	2340
R-12M-1	20,664	XV-XVIII	7.9	410	RRR/6	1026	2342
R-13M	23,688	XIV-XIX	9.1	470	RRR/4	1176	2345
R-14M	24,696	XV-XX	9.5	490	RRR/4	1226	2350
R-15M	26,964	XVII-XX	10.4	535	RRR/3	1338	2357
R-16M	28,980	XVI-XX	11.2	575	RRR/2	1438	2361
R-16M-1	30,744	XVII-XX	11.8	610	RRR/1	1526	2370
R-17M	32,760	XIX-XX	12.6	650	RRR/1	1626	2380

CLOAKING DEVICE TYPES

Cloaking Device Type	Appropriate Ship Classes	Power to Energize	Control Computer Requirement	Availability	Cost (MCr)	Date Entering Service
RCA	II-III	8	R2M	III/05	12	2267
RCB	IV-V	10	R3M	III/04	20	2267
RCC	VI-IX	15	R4M	III/02	45	2267
RCD	X-XI	22	R5M	III/01	70	2268
RCE	XII	38	R5M	III/01	90	2270
RCF	XIII-XV	75	R-8M	III/01	180	2292
RCG	XVI-XIX	120	R-9M	III/01	274	2318
RCH	I	4	R-2M	III/01	5	2326
RCI	XIX-XX	175	R-9M-1	III/01	398	2329

WARP ENGINE TYPES
Single Nacelle Use

Warp Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Stress Column (Eng/SS)	SS Requirememnt	Availability	Cost (MCr)	Year
RWA-1	3,000	6	R-1M	K/M	0.2	RRR/48	4.2	2241
RWA-2	2,800	8	R-1M	J/L	0.2	RRR/44	5	2251
RWB-1	8,000	10	R-2M	K/O	0.6	RRR/44	7.2	2241
RWB-2	8,200	9	R-2M	L/O	0.6	RRR/40	8.5	2258
RWC-1	20,000	12	R-2M	K/O	1.6	RRR/39	49	2245
RWC-2	20,000	14	R-2M	L/P	1.6	RRR/35	50	2252
RWD-1	30,000	15	R-2M	N/O	2.4	RRR/32	145	2247
RWD-2	30,000	18	R-3M	O/Q	2.4	RRR/28	192	2257
RWD-3	30,000	22	R-3M	O/Q	2.4	RRR/24	257	2292
RWE-1	40,000	12	R-2M	H/J	3.2	RRR/26	206	2249
RWE-2	40,000	16	R-2M	H/K	3.2	RRR/17	228	2280
RWF-1	50,000	16	R-3M	F/K	4	RRR/21	312	2253
RWF-2	50,000	18	R-3M	F/L	4	RRR/18	322	2254
RWF-3	50,000	20	R-4M	F/K	4	RRR/15	324	2290
RWG-1	70,000	22	R-4M	D/F	5.6	RRR/15	497	2270
RWG-2	70,000	36	R-5M	D/G	5.6	III/14	738	2293
RWH-1	98,000	44	R-5M	E/G	7.5	III/12	847	2308
RWH-2	98,000	48	R-6M	E/G	7.5	III/11	870	2315
RWI-1	15,500	10	R-1M	J/K	1.4	RRR/20	41	2309
RWJ-1	56,000	30	R-4M	F/H	4.9	III/15	349	2332
RWJ-2	56,000	34	R-4M	F/H	5.1	III/14	360	2335
RWJ-3	56,000	38	R-4M	F/H	6	III/13	371	2342
RWK-1	68,900	40	R-4M	G/I	5.6	III/13	463	2334
RWK-2	68,900	45	R-5M	G/H	5.6	III/12	480	2336
RWK-3	68,900	49	R-5M	G/H	5.6	III/11	493	2345
RWL-1	47,000	24	R-4M	F/K	4.3	RRR/17	210	2335
RWL-2	47,000	25	R-4M	F/K	4.3	RRR/17	212	2341
RWL-3	47,000	28	R-4M	F/L	4.3	III/16	217	2350
RWM-1	70,000	50	R-5M	N/O	7.6	III/10	630	2342
RWM-2	70,000	53	R-5M	N/O	7.6	III/10	643	2344
RWN-1	48,500	31	R-4M	H/J	4.6	III/15	229	2346
RWN-2	55,000	35	R-4M	H/J	4.6	III/14	356	2348
RWO-1	81,000	60	R-5M-1	L/N	8.5	III/8	778	2355
RWO-2	81,000	63	R-5M-1	L/N	8.5	III/7	792	2358
RWO-3	81,000	65	R-5M-1	L/N	8.5	III/7	802	2363
RWP-1	92,000	56	R-5M	J/M	5.2	III/9	861	2357
RWP-2	92,000	58	R-5M	J/M	8.2	III/8	872	2361
RWQ-1	98,000	66	R-5M-1	K/L	7.9	III/7	976	2360
RWQ-2	98,000	67	R-5M-1	K/L	7.9	III/6	982	2364
RWQ-3	98,000	69	R-6M	K/L	7.9	III/6	994	2370
RWR-1	100,000	70	R-6M	H/K	10	III/5	1,224	2362
RWR-2	100,000	74	R-6M	H/K	10	III/2	1,253	2367
RWS-1	105,000	71	R-6M	L/O	9.7	III/3	1,293	2365
RWS-2	105,000	80	R-6M	L/O	9.7	III/2	1,361	2371
RWT-1	110,000	90	R-6M	L/M	11.2	III/1	1,505	2374

WARP ENGINE TYPES
Dual Nacelle Use

Warp Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Stress Column (Eng/SS)	SS Requirememnt	Availability	Cost (MCr)	Year
RWA-1	6,000	6 ea.	R-2M	M/O	0.4	RRR/48	9.6	2241
RWA-2	5,600	9 ea.	R-3M	J/M	0.4	RRR/44	11	2251
RWB-1	16,000	10 ea.	R-3M	M/P	1.2	RRR/44	15.4	2241
RWB-2	16,400	11 ea.	R-4M	N/P	1.2	RRR/40	18.7	2258
RWC-1	40,000	12 ea.	R-4M	M/P	3.2	RRR/39	107	2245
RWC-2	40,000	15 ea.	R-4M	N/Q	3.2	RRR/35	110	2252
RWD-1	60,000	16 ea.	R-4M	O/O	4.8	RRR/32	319	2247
RWD-2	60,000	20 ea.	R-5M	O/Q	4.8	RRR/28	422	2257
RWD-3	60,000	22 ea.	R-5M-1	O/Q	4.8	RRR/24	566	2292
RWE-1	80,000	13 ea.	R-4M	I/L	6.4	RRR/26	453	2249
RWE-2	80,000	17 ea.	R-5M	I/L	6.4	RRR/17	502	2280
RWF-1	100,000	18 ea.	R-4M	G/L	8	RRR/21	686	2253
RWF-2	100,000	20 ea.	R-5M	G/M	8	RRR/18	708	2254
RWF-3	100,000	22 ea.	R-6M	G/N	8	RRR/15	713	2290
RWG-1	140,000	24 ea.	R-5M	G/L	11.2	RRR/15	1,095	2270
RWG-2	140,000	38 ea.	R-7M	G/L	11.2	III/14	1,624	2293
RWH-1	196,000	46 ea.	R-7M	H/M	15	III/12	1,864	2308
RWH-2	196,000	52 ea.	R-8M	H/M	15	III/11	1,914	2315
RWI-1	31,000	11 ea.	R-4M	L/M	2.8	RRR/20	91	2309
RWJ-1	112,000	30 ea.	R-5M	F/H	9.8	III/15	768	2332
RWJ-2	112,000	34 ea.	R-6M	F/H	10.2	III/14	792	2335
RWJ-3	112,000	38 ea.	R-6M	F/H	12	III/13	817	2342
RWK-1	137,800	40 ea.	R-6M	G/I	11.2	III/13	1,019	2334
RWK-2	137,800	45 ea.	R-6M	G/H	11.2	III/12	1,056	2336
RWK-3	137,800	50 ea.	R-6M-1	G/H	11.2	III/11	1,085	2345
RWL-1	94,000	24 ea.	R-5M	F/K	8.6	RRR/17	462	2335
RWL-2	94,000	26 ea.	R-5M	F/K	8.6	RRR/17	467	2341
RWL-3	94,000	28 ea.	R-5M	F/L	8.6	III/16	478	2350
RWM-1	140,000	50 ea.	R-6M-1	N/O	15.2	III/10	1,386	2342
RWM-2	140,000	54 ea.	R-6M-1	N/O	15.2	III/10	1,415	2344
RWN-1	97,000	31 ea.	R-5M-1	H/J	9.2	III/15	504	2346
RWN-2	110,000	36 ea.	R-6M	H/J	9.2	III/14	784	2348
RWO-1	162,000	61 ea.	R-6M-1	L/N	17	III/8	1,712	2355
RWO-2	162,000	63 ea.	R-7M	L/N	17	III/7	1,743	2358
RWO-3	162,000	66 ea.	R-7M	L/N	17	III/7	1,765	2363
RWP-1	184,000	56 ea.	R-6M-1	J/M	10.4	III/9	1,895	2357
RWP-2	184,000	58 ea.	R-6M-1	J/M	16.4	III/8	1,919	2361
RWQ-1	196,000	66 ea.	R-7M	K/L	15.8	III/7	2,148	2360
RWQ-2	196,000	68 ea.	R-7M	K/L	15.8	III/6	2,161	2364
RWQ-3	196,000	70 ea.	R-7M	K/L	15.8	III/6	2,187	2370
RWR-1	200,000	71 ea.	R-7M	H/K	20	III/5	2,693	2362
RWR-2	200,000	74 ea.	R-7M-1	H/K	20	III/2	2,757	2367
RWS-1	210,000	72 ea.	R-7M-1	L/O	19.4	III/3	2,845	2365
RWS-2	210,000	80 ea.	R-8M	L/O	19.4	III/2	2,995	2371
RWT-1	220,000	90 ea.	R-8M	L/M	22.4	III/1	3,311	2374

MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

Ship Class	Movement Point Ratios												
	1/3	1/2	1/1	2/1		3/1			4/1			5/1	6/1
I	**RWA-1** *25.5* 7/8 **RWA-2** *34* 7/8	**RWA-2** *23* 7/8	**RWA-2** *11.5* 6/7										
II		**RWA-1** *17* 7/8	**RWA-2** *11.5* 6/7 **RWB-1** *14* 6/7 **RWB-2** *13* 6/7										
III			**RWA-1** *8.5* 6/7 **RWI-1** *14* 8/9	**RWA-1** *4* 5/6 **RWA-2** *6* 6/7 **RWB-1** *7* 5/6	**RWB-2** *6.5* 6/7 **RWC-1** *8.5* 6/8 **RWC-2** *10* 6/8								
IV			**RWI-1** *14* 8/9	**RWC-1** *8.5* 6/8 **RWC-2** *10* 6/8	**RWD-1** *11* 7/8 **RWD-2** *13* 7/8	**RWC-1** *5.5* 5/7							
V			**RWE-2** *23* 7/8	**RWD-1** *11* 7/8 **RWD-2** *13* 7/8 **RWI-1** *7* 7/9	**RWL-1** *17* 7/9 **RWL-2** *18* 7/9 **RWL-3** *20* 7/9	**RWC-2** *6.5* 5/7 **RWE-1** *5.5* 7/8 **RWF-1** *7.5* 7/9	**RWF-2** *8.5* 7/8 **RWL-3** *13.5* 7/8						
VI			**RWE-2** *23* 7/8	**RWD-1** *11* 7/8 **RWD-2** *13* 7/8 **RWE-2** *11.5* 6/8 **RWI-1** *7* 7/9	**RWL-1** *17* 7/9 **RWL-2** *18* 7/9 **RWL-3** *20* 7/9	**RWD-1** *7* 6/7 **RWD-2** *8.5* 6/7 **RWE-1** *5.5* 7/8 **RWF-1** *7.5* 7/9	**RWF-2** *8.5* 7/8 **RWG-2** *17* 7/9 **RWL-3** *13.5* 7/8						
VII			**RWE-2** *23* 7/8	**RWD-1** *11* 7/8 **RWE-2** *11.5* 6/8 **RWJ-1** *21.5* 6/8 **RWJ-2** *24* 6/8 **RWL-1** *17* 7/9	**RWL-3** *20* 7/9 **RWN-1** *22* 7/9	**RWD-1** *7* 6/7 **RWD-2** *8.5* 6/7 **RWE-1** *5.5* 7/8 **RWF-1** *7.5* 7/9 **RWF-2** *8.5* 7/8	**RWG-2** *17* 7/9 **RWJ-1** *14* 6/7 **RWJ-2** *16* 6/7 **RWJ-3** *18* 6/8 **RWK-1** *19* 7/8	**RWK-2** *21.5* 7/8 **RWL-1** *11.5* 7/8 **RWL-2** *12* 7/8 **RWL-3** *13.5* 7/8 **RWN-2** *16.5* 7/9	**RWD-1** *5* 5/6 **RWD-2** *6.5* 5/6 **RWK-3** *17.5* 7/8 **RWN-2** *12.5* 7/8				
VIII				**RWE-2** *11.5* 6/8 **RWJ-1** *21.5* 6/8 **RWJ-2** *24* 6/8 **RWL-1** *17* 7/9 **RWN-1** *22* 7/9		**RWE-2** *7.5* 7/8 **RWE-2** *7.5* 6/7 **RWF-1** *7.5* 7/9 **RWF-2** *8.5* 7/8 **RWG-2** *17* 7/9 **RWH-1** *21* 7/9	**RWJ-1** *14* 6/7 **RWJ-2** *16* 6/7 **RWJ-3** *18* 6/8 **RWK-1** *19* 7/8 **RWK-2** *21.5* 7/8 **RWL-1** *11.5* 7/8	**RWL-2** *12* 7/8 **RWL-3** *13.5* 7/8 **RWM-1** *24* 6/8 **RWM-2** *25* 6/8 **RWN-2** *16.5* 7/9	**RWD-1** *5* 5/6 **RWD-2** *6.5* 5/6 **RWE-2** *5.5* 5/7 **RWG-1** *8* 7/9 **RWH-2** *17* 7/9 **RWK-3** *17.5* 7/8	**RWL-3** *10* 6/8 **RWN-2** *12.5* 7/8 **RWO-1** *21.5* 6/8 **RWO-2** *22.5* 6/8 **RWO-3** *23* 6/8 **RWP-1** *20* 7/8	**RWP-2** *21* 7/8	**RWO-2** *18* 6/7 **RWP-2** *16.5* 6/8 **RWQ-1** *19* 7/8 **RWQ-2** *19* 7/8 **RWQ-3** *20* 7/8	**RWQ-1** *16* 6/8 **RWQ-2** *16* 6/8

MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

Movement Point Ratios

Ship Class	3/1			4/1				5/1				6/1		7/1
IX	**RWE-1** *5.5* 7/8 **RWE-2** *7.5* 6/7 **RWF-1** *7.5* 7/9 **RWF-2** *8.5* 7/8 **RWG-2** *17* 7/9 **RWH-1** *21* 7/9	**RWJ-1** *14* 6/7 **RWJ-2** *16* 6/7 RWJ-3 **18** *6/8* RWK-1 **19** *7/8* RWK-2 **21.5** *7/8* RWL-1 **11.5** *7/8*	**RWL-2** *12* 7/8 **RWL-3** *13.5* 7/8 **RWM-1** *24* 6/8 **RWM-2** *25* 6/8 RWN-1 **15** *7/8* RWN-2 **16.5** *7/9*	**RWD-1** *5* 5/6 **RWD-2** *6.5* 5/6 **RWE-1** *4* 6/7 **RWE-2** *5.5* 5/7 **RWF-1** *5.5* 6/8 **RWF-2** *6.5* 6/7	**RWG-1** *8* 7/9 **RWG-2** *13* 7/8 RWH-1 **16** *7/8* RWH-2 **17** *7/9* RWK-3 **17.5** *7/8* RWL-1 **8.5** *6/8*	**RWL-2** *9* 6/8 **RWL-3** *10* 6/8 **RWM-1** *18* 6/7 **RWN-1** *11* 6/8 RWN-2 **12.5** *7/8* RWO-1 **21.5** *6/8*	**RWO-2** *22.5* 6/8 **RWO-3** *23* 6/8 **RWP-1** *20* 7/8 **RWP-2** *21* 7/8	**RWG-1** *6* 6/8 **RWK-3** *14* 6/8 **RWO-2** *18* 6/7 **RWP-2** *16.5* 6/8 **RWQ-1** *19* 7/8 **RWQ-2** *19* 7/8	**RWQ-3** *20* 7/8 **RWR-1** *20* 6/8 **RWR-2** *21* 6/8			**RWQ-1** *16* 6/8 **RWQ-2** *16* 6/8 **RWR-2** *17.5* 6/8 **RWS-1** *17* 6/8 **RWT-1** *21.5* 7/9		
X	**RWJ-1** *14* 6/7 **RWJ-2** *16* 6/7 **RWJ-3** *18* 6/8 **RWK-1** *19* 7/8 **RWK-2** *21.5* 7/8 **RWL-1** *11.5* 7/8	**RWL-2** *12* 7/8 **RWL-3** *13.5* 7/8 RWM-2 **25** *6/8* RWN-1 **15** *7/8* RWN-2 **16.5** *7/9* RWO-1 **28.5** *7/8*		**RWE-1** *4* 6/7 **RWE-2** *5.5* 5/7 **RWF-1** *5.5* 6/8 **RWF-2** *6.5* 6/8 **RWG-2** *13* 7/8 **RWH-1** *16* 7/8	**RWH-2** *17* 7/9 **RWJ-1** *11* 5/7 RWK-2 **16** *6/8* RWK-3 **17.5** *7/8* RWL-1 **8.5** *6/8* RWL-2 **9** *6/8*	**RWL-3** *10* 6/8 **RWM-1** *18* 6/7 **RWN-1** *11* 6/8 **RWN-2** *12.5* 7/8 RWO-1 **21.5** *6/8* RWO-2 **22.5** *6/8*	**RWO-3** *23* 6/8 **RWP-1** *20* 7/8 **RWP-2** *21* 7/8 **RWR-2** *26.5* 7/8	**RWD-2** *5* 4/5 **RWG-1** *6* 6/8 **RWK-3** *14* 6/8 **RWO-2** *18* 6/7 **RWP-2** *16.5* 6/8 **RWQ-1** *19* 7/8	**RWQ-2** *19* 7/8 **RWQ-3** *20* 7/8 **RWR-1** *20* 6/8 **RWR-2** *21* 6/8			**RWQ-1** *16* 6/8 **RWQ-2** *16* 6/8 **RWR-2** *17.5* 6/7 **RWS-1** *17* 6/8 **RWT-1** *21.5* 7/9		
XI	**RWJ-1** *14* 6/7 **RWJ-2** *16* 6/7 **RWJ-3** *18* 6/8 **RWK-1** *19* 7/8 **RWL-1** *11.5* 7/8 **RWM-2** *25* 6/8	**RWN-1** *15* 7/8 **RWN-2** *16.5* 7/9 **RWO-1** *28.5* 7/8		**RWE-1** *4* 6/7 **RWF-1** *5.5* 6/8 **RWG-2** *13* 7/8 **RWH-1** *16* 7/8 **RWH-2** *17* 7/9 **RWJ-1** *11* 5/7	**RWJ-2** *12* 5/7 **RWJ-3** *13.5* 6/7 **RWK-1** *14* 6/8 **RWK-2** *16* 6/8 **RWK-3** *17.5* 7/8 **RWL-1** *8.5* 6/8	**RWL-2** *9* 6/8 **RWL-3** *10* 6/8 **RWM-1** *18* 6/7 **RWN-1** *11* 6/8 **RWN-2** *12.5* 7/8 **RWO-1** *21.5* 6/8	**RWO-2** *22.5* 6/8 **RWO-3** *23* 6/8 **RWP-1** *20* 7/8	**RWG-1** *6* 6/8 **RWH-2** *14* 7/8 **RWK-3** *14* 6/8 **RWO-1** *17* 6/7 **RWO-2** *18* 6/7 **RWP-2** *16.5* 6/8	**RWQ-1** *19* 7/8 **RWQ-2** *19* 7/8 **RWQ-3** *20* 7/8 **RWR-1** *20* 6/8			**RWQ-1** *16* 6/8 **RWQ-2** *16* 6/8 **RWR-2** *17.5* 6/7 **RWS-1** *17* 6/8 **RWT-1** *21.5* 7/9		
XII				**RWE-1** *4* 6/7 **RWF-1** *5.5* 6/8 **RWG-2** *13* 7/8 **RWH-1** *16* 7/8 **RWJ-1** *11* 5/7	**RWJ-2** *12* 5/7 RWJ-3 **13.5** *6/7* RWK-1 **14** *6/8* RWK-2 **16** *6/8* RWL-1 **8.5** *6/8*	**RWL-2** *9* 6/8 **RWL-3** *10* 6/8 RWM-1 **18** *6/7* RWM-2 **19** *6/7* RWN-1 **11** *6/8*	**RWN-2** *12.5* 7/8 **RWO-1** *21.5* 6/8 **RWO-2** *22.5* 6/8 RWO-3 **23** *6/8* RWP-1 **20** *7/8*	**RWF-1** *4.5* 5/7 **RWG-1** *6* 6/8 **RWG-2** *10* 6/8 **RWH-2** *14* 7/8 **RWJ-3** *11* 5/7	**RWK-1** *11.5* 6/7 RWK-2 **13** *6/7* RWK-3 **14** *6/8* RWM-1 **14** *5/7* RWM-2 **15** *5/7*	**RWN-2** *10* 6/8 **RWO-1** *17* 6/7 RWO-2 **18** *6/7* RWO-3 **18.5** *6/7* RWP-2 **16.5** *6/8*	**RWQ-1** *19* 7/8 **RWQ-3** *20* 7/8 **RWR-1** *20* 6/8	**RWK-3** *11.5* 6/7 **RWP-2** *14* 6/7 **RWQ-1** *16* 6/8 **RWQ-2** *16* 6/8 **RWR-2** *17.5* 6/7	**RWS-1** *17* 6/8 RWT-1 **21.5** *7/9*	**RWR-2** *15* 5/7
XIII								**RWE-1** *3.5* 5/6 **RWF-1** *4.5* 5/7 **RWG-2** *10* 6/8 **RWH-1** *12.5* 6/8 **RWH-2** *14* 7/8 **RWJ-1** *8.5* 5/6	**RWJ-2** *10* 5/6 **RWJ-3** *11* 5/7 **RWK-1** *11.5* 6/7 **RWK-2** *13* 6/7 **RWK-3** *14* 6/8 **RWM-1** *14* 5/7	**RWM-2** *15* 5/7 **RWN-1** *9* 6/7 **RWN-2** *10* 6/8 **RWO-1** *17* 6/7 **RWO-2** *18* 6/7 **RWO-3** *18.5* 6/7	**RWP-1** *16* 6/8 **RWP-2** *16.5* 6/8 **RWQ-3** *20* 7/8 **RWR-1** *20* 6/8	**RWG-1** *5* 5/7 **RWJ-3** *9* 5/6 **RWK-3** *11.5* 6/7 **RWP-2** *14* 6/7 **RWQ-1** *16* 6/8 **RWQ-2** *16* 6/8	**RWR-1** *16.5* 6/7 **RWR-2** *17.5* 6/7 **RWS-1** *17* 6/8	**RWR-2** *15* 5/7 **RWT-1** *18.5* 7/8

MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

Ship Class	Movement Point Ratios										
	5/1			6/1			7/1			8/1	
XIV	RWE-1 3.5 5/6 RWF-1 4.5 5/7 RWH-2 14 7/8 RWJ-1 8.5 5/6 RWJ-2 10 5/6 RWJ-3 11 5/7 RWK-1 11.5 6/7	RWK-2 13 6/7 RWM-1 14 5/7 RWM-2 15 5/7 RWN-1 9 6/7 RWN-2 10 6/8 RWO-1 17 6/7 RWO-2 18 6/7	RWO-3 18.5 6/7 RWP-1 16 6/8 RWP-2 16.5 6/8 RWQ-3 20 7/8 RWR-1 20 6/8								
XV	RWE-1 3.5 5/6 RWF-1 4.5 5/7 RWM-2 15 5/7 RWO-1 17 6/7	RWO-2 18 6/7 RWO-3 18.5 6/7 RWP-1 16 6/8 RWP-2 16.5 6/8	RWQ-3 20 7/8 RWR-1 20 6/8	RWG-1 5 5/7 RWH-1 10.5 6/7 RWH-2 11.5 6/8 RWM-1 12 5/6	RWO-1 14 5/7 RWP-2 14 6/7 RWQ-1 16 6/8 RWQ-2 16 6/8	RWR-1 16.5 6/7 RWS-1 17 6/8	RWH-1 9 5/7 RWM-1 10 4/6 RWQ-1 13.5 6/7 RWQ-2 13.5 6/7	RWR-1 14 5/7 RWR-2 15 5/7 RWT-1 18.5 7/8			
XVI				RWP-1 13.5 6/7 RWP-2 14 6/7 RWQ-3 16.5 6/8	RWR-1 16.5 6/7 RWS-1 17 6/8		RWH-1 9 5/7 RWH-2 10 6/7 RWQ-1 13.5 6/7	RWQ-2 13.5 6/7 RWR-1 14 5/7 RWR-2 15 5/7	RWS-1 14.5 6/7	RWR-2 13 5/6	
XVII				RWP-1 13.5 6/7 RWP-2 14 6/7	RWQ-3 16.5 6/8 RWR-1 16.5 6/7		RWQ-1 13.5 6/7 RWQ-2 13.5 6/7	RWR-1 14 5/7 RWS-1 14.5 6/7		RWR-2 13 5/6	
XVIII							RWR-1 14 5/7	RWS-1 14.5 6/7		RWR-2 13 5/6	RWS-1 12.5 5/7
XIX										RWS-1 12.5 5/7	

MOVEMENT POINT RATIO TABLE: TANDEM WARP ENGINE

Movement Point Ratios

Ship Class	1/2	1/1		2/1		3/1		4/1			5/1			6/1		7/1	8/1	9/1
II	**RWA-1** *34* 7/8	**RWA-1** *17* 6/7	**RWA-2** *26* 6/7	**RWA-2** *13* 5/6														
III		**RWA-2** *26* 6/7 **RWB-1** *28.5* 7/8	**RWB-2** *31.5* 6/7	**RWA-1** *8.5* 5/6 **RWA-2** *13* 5/6	**RWB-1** *14* 6/7													
IV		**RWB-1** *28.5* 7/8 **RWB-2** *31.5* 7/8		**RWA-2** *13* 5/6 **RWB-1** *14* 6/7	**RWB-2** *15.5* 6/7	**RWA-1** *5.5* 4/5 **RWB-1** *9* 5/6	**RWB-2** *10* 5/6											
V				**RWB-2** *15.5* 6/7 **RWC-1** *17* 5/7 **RWC-2** *21.5* 6/8	**RWD-1** *23* 7/8 **RWI-1** *15.5* 8/9	**RWB-2** *10* 5/6 **RWC-1** *11.5* 4/6 **RWC-2** *14* 6/7											
VI				**RWD-1** *23* 7/8 **RWI-1** *15.5* 8/9		**RWC-1** *11.5* 4/6 **RWC-2** *14* 6/7	**RWD-1** *15* 6/7 **RWD-2** *19* 7/8	**RWC-2** *11* 4/6 **RWD-2** *14* 6/7										
VII				**RWI-1** *15.5* 8/9		**RWC-2** *14* 6/7 **RWD-1** *15* 6/7	**RWE-1** *12.5* 7/8 **RWI-1** *10* 7/9	**RWC-2** *11* 4/6 **RWD-2** *14* 6/7	**RWE-1** *9* 6/7		**RWE-1** *7.5* 5/7							
VIII				**RWI-1** *15.5* 8/9		**RWD-1** *15* 6/7 **RWE-1** *12.5* 7/8 **RWE-2** *16* 7/9 **RWF-2** *19* 7/9	**RWI-1** *10* 7/9	**RWD-2** *14* 6/7 **RWD-3** *16* 7/8 **RWE-1** *9* 6/7 **RWE-2** *12* 7/8	**RWF-1** *13* 7/9 **RWF-2** *14* 7/8 **RWF-3** *16* 7/9 **RWL-1** *17* 7/8	**RWL-2** *18.5* 7/8 **RWL-3** *20* 7/9	**RWE-1** *7.5* 5/7 **RWF-1** *10* 6/8							
IX						**RWD-1** *15* 6/7 **RWE-2** *16* 7/9 **RWF-2** *19* 7/9 **RWI-1** *10* 7/9		**RWD-2** *14* 6/7 **RWE-1** *9* 6/7 **RWE-2** *12* 7/8 **RWF-1** *13* 7/9	**RWF-2** *14* 7/8 **RWF-3** *16* 7/9 **RWJ-1** *21.5* 6/8 **RWL-1** *17* 7/8	**RWL-2** *18.5* 7/8 **RWL-3** *20* 7/9	**RWE-1** *7.5* 5/7 **RWF-1** *10* 6/8 **RWJ-2** *19.5* 6/8 **RWN-1** *18* 7/8	**RWN-2** *20.5* 7/8		**RWJ-3** *18* 6/8				
X						**RWD-1** *15* 6/7 **RWF-2** *19* 7/9		**RWD-1** *11.5* 5/6 **RWD-2** *14* 6/7 **RWE-1** *9* 6/7 **RWE-2** *12* 7/8	**RWF-1** *13* 7/9 **RWF-2** *14* 7/8 **RWF-3** *16* 7/9 **RWG-1** *17* 7/9	**RWJ-1** *21.5* 6/8 **RWL-1** *17* 7/8 **RWL-2** *18.5* 7/8 **RWL-3** *20* 7/9	**RWD-2** *11.5* 5/6 **RWE-1** *7.5* 5/7 **RWE-2** *10* 6/8 **RWF-1** *10* 6/8	**RWG-2** *22* 7/9 **RWJ-2** *19.5* 6/8 **RWN-1** *18* 7/8 **RWN-2** *20.5* 7/8		**RWJ-3** *18* 6/8 **RWK-1** *19* 7/8 **RWK-2** *21.5* 7/8		**RWK-3** *20.5* 7/8		
XI								**RWD-1** *11.5* 5/6 **RWE-1** *9* 6/7 **RWE-2** *12* 7/8 **RWF-1** *13* 7/9	**RWF-2** *14* 7/8 **RWF-3** *16* 7/9 **RWG-1** *17* 7/9 **RWJ-1** *21.5* 6/8	**RWL-1** *17* 7/8 **RWL-2** *18.5* 7/8	**RWD-2** *11.5* 5/6 **RWE-1** *7.5* 5/7 **RWE-2** *10* 6/8 **RWF-1** *10* 6/8	**RWG-2** *22* 7/9 **RWJ-2** *19.5* 6/8 **RWL-3** *16* 7/8 **RWN-1** *18* 7/8	**RWN-2** *20.5* 7/8	**RWJ-3** *18* 6/8 **RWK-1** *19* 7/8 **RWK-2** *21.5* 7/8		**RWK-3** *20.5* 7/8 **RWM-1** *20.5* 7/9 **RWM-2** *22* 7/9		
XII								**RWD-1** *11.5* 5/6 **RWE-1** *9* 6/7 **RWF-1** *13* 7/9 **RWF-2** *14* 7/8	**RWG-1** *17* 7/9 **RWL-2** *18.5* 7/8		**RWD-2** *11.5* 5/6 **RWE-1** *7.5* 5/7 **RWE-2** *10* 6/8 **RWF-1** *10* 6/8	**RWF-2** *11.5* 6/7 **RWF-3** *12.5* 7/8 **RWJ-1** *17* 6/7 **RWJ-2** *19.5* 6/8	**RWL-1** *14* 6/8 **RWL-3** *16* 7/8 **RWN-1** *18* 7/8	**RWE-2** *8* 6/7 **RWG-2** *18* 7/8 **RWH-1** *22* 8/9 **RWJ-3** *18* 6/8	**RWK-1** *19* 7/8 **RWK-2** *21.5* 7/8 **RWN-2** *17* 6/8	**RWH-2** *21* 8/9 **RWK-3** *20.5* 7/8 **RWM-1** *20.5* 7/9 **RWM-2** *22* 7/9	**RWK-3** *18* 6/8 **RWO-1** *22* 8/9	**RWO-2** *20* 8/9 **RWO-3** *21* 8/9

MOVEMENT POINT RATIO TABLE: TANDEM WARP ENGINE

Movement Point Ratios

Ship Class	4/1	5/1			6/1			7/1		8/1		9/1		10/1		11/1		12/1
XIII	**RWG-1** *17* 7/9	**RWD-1** *9* 4/5 **RWE-1** *7.5* 5/6 **RWE-2** *10* 6/8 **RWF-1** *10* 6/8	**RWF-2** *11.5* 6/8 **RWF-3** *12.5* 7/8 **RWG-1** *14* 6/8 **RWJ-1** *17* 6/7	**RWL-1** *14* 6/8 **RWL-2** *15* 6/8 **RWL-3** *16* 7/8	**RWD-2** *9.5* 4/5 **RWE-2** *8* 6/7 **RWG-2** *18* 7/8 **RWH-1** *22* 8/9	**RWJ-2** *16* 6/7 **RWK-1** *19* 7/8 **RWN-1** *15* 6/8 **RWN-2** *17* 6/8		**RWH-2** *21* 8/9 **RWJ-3** *15.5* 6/7 **RWK-2** *18.5* 6/8 **RWK-3** *20.5* 7/8	**RWM-1** *20.5* 7/9	**RWK-3** *18* 6/8 **RWM-2** *19* 7/8 **RWO-1** *22* 8/9 **RWP-1** *20* 8/9	**RWP-2** *21* 7/9	**RWO-2** *20* 8/9 **RWO-3** *21* 8/9 **RWQ-1** *21* 8/9 **RWQ-2** *21.5* 8/9		**RWQ-3** *20* 8/9		**RWT-1** *23.5* 7/9		
XIV		**RWD-1** *9* 4/5 **RWE-1** *7.5* 5/6 **RWF-1** *10* 6/8 **RWF-2** *11.5* 6/8	**RWF-3** *12.5* 7/8 **RWG-1** *14* 6/8 **RWJ-1** *17* 6/7 **RWL-1** *14* 6/8	**RWL-2** *15* 6/8 **RWL-3** *16* 7/8	**RWD-2** *9.5* 4/5 **RWE-2** *8* 6/7 **RWF-2** *9.5* 6/7 **RWJ-2** *16* 6/7	**RWN-1** *15* 6/8 **RWN-2** *17* 6/8		**RWG-2** *15.5* 6/8 **RWH-1** *19* 7/9 **RWJ-3** *15.5* 6/7 **RWK-1** *16.5* 6/8	**RWK-2** *18.5* 6/8 **RWM-1** *20.5* 7/9	**RWH-2** *18.5* 7/9 **RWK-3** *18* 6/8 **RWM-2** *19* 7/8 **RWO-1** *22* 8/9	**RWP-1** *20* 8/9 **RWP-2** *21* 7/9	**RWK-3** *16* 6/7 **RWO-2** *20* 8/9 **RWP-1** *18* 7/9 **RWQ-1** *21* 8/9	**RWQ-2** *21.5* 8/9	**RWO-3** *19* 7/9 **RWQ-3** *20* 8/9 **RWR-1** *20* 7/8 **RWR-2** *21* 6/8		**RWS-1** *19* 8/9 **RWT-1** *23.5* 7/9		
XV		**RWD-1** *9* 4/5 **RWE-1** *7.5* 5/6 **RWJ-1** *17* 6/7 **RWL-2** *15* 6/8	**RWL-3** *16* 7/8		**RWD-2** *9.5* 4/5 **RWE-1** *6* 4/5 **RWE-2** *8* 6/7 **RWF-1** *8.5* 5/7	**RWF-2** *9.5* 6/7 **RWF-3** *10.5* 6/8 **RWG-1** *11.5* 6/7 **RWJ-2** *16* 6/7	**RWL-1** *11.5* 6/7 **RWN-1** *15* 6/8 **RWN-2** *17* 6/8	**RWG-2** *15.5* 6/8 **RWH-1** *19* 7/9 **RWJ-2** *14* 5/7 **RWJ-3** *15.5* 6/7	**RWK-1** *16.5* 6/8 **RWK-2** *18.5* 6/8	**RWH-2** *18.5* 7/9 **RWK-3** *18* 6/8 **RWM-1** *18* 7/8 **RWM-2** *19* 7/8	**RWO-1** *22* 8/9	**RWK-3** *16* 6/7 **RWO-2** *20* 8/9 **RWP-1** *18* 7/9 **RWP-2** *18.5* 7/8	**RWQ-1** *21* 8/9 **RWQ-2** *21.5* 8/9	**RWO-3** *19* 7/9 **RWQ-3** *20* 8/9 **RWR-1** *20* 7/8 **RWR-2** *21* 6/8		**RWS-1** *19* 8/9 **RWT-1** *23.5* 7/9		
XVI		**RWD-1** *9* 4/5			**RWD-2** *9.5* 4/5 **RWE-1** *6* 4/5 **RWF-1** *8.5* 5/7 **RWF-2** *9.5* 6/7	**RWF-3** *10.5* 6/8 **RWJ-1** *14* 5/7 **RWL-1** *11.5* 6/7 **RWL-2** *12.5* 6/7	**RWL-3** *13.5* 6/8 **RWN-1** *15* 6/8	**RWG-1** *10* 5/7 **RWG-2** *15.5* 6/8 **RWJ-2** *14* 5/7 **RWK-1** *16.5* 6/8	**RWN-2** *14.5* 6/7	**RWH-1** *16.5* 7/8 **RWH-2** *18.5* 7/9 **RWJ-3** *13.5* 5/7 **RWK-1** *14* 6/7	**RWK-2** *16* 6/7 **RWK-3** *18* 6/8 **RWM-1** *18* 7/8 **RWM-2** *19* 7/8	**RWK-3** *16* 6/7 **RWO-1** *19.5* 7/8 **RWP-1** *18* 7/9 **RWP-2** *18.5* 7/8	**RWQ-1** *21* 8/9	**RWO-2** *18* 7/8 **RWO-3** *19* 7/9 **RWQ-1** *19* 7/9 **RWQ-2** *19.5* 7/9	**RWR-1** *20* 7/8	**RWQ-3** *18* 7/9 **RWR-2** *19* 6/7 **RWT-1** *23.5* 7/9		**RWS-1** *17* 7/9 **RWT-1** *21.5* 7/8
XVII		**RWD-1** *9* 4/5			**RWE-1** *6* 4/5 **RWJ-1** *14* 5/7 **RWL-1** *11.5* 6/7	**RWL-2** *12.5* 6/7 **RWL-3** *13.5* 6/8		**RWD-2** *8* 3/4 **RWF-1** *7.5* 4/6 **RWG-1** *10* 5/7 **RWG-2** *15.5* 6/8	**RWJ-2** *14* 5/7 **RWN-1** *12.5* 6/7 **RWN-2** *14.5* 6/7	**RWH-1** *16.5* 7/8 **RWJ-2** *12* 5/6 **RWJ-3** *13.5* 5/7 **RWK-1** *14* 6/7	**RWK-2** *16* 6/7 **RWM-1** *18* 7/8	**RWH-2** *16.5* 7/8 **RWK-3** *16* 6/7 **RWM-2** *17* 6/8 **RWO-1** *19.5* 7/8	**RWP-1** *18* 7/9	**RWO-2** *18* 7/8 **RWO-3** *19* 7/9 **RWP-2** *16.5* 6/8 **RWQ-1** *19* 7/9	**RWQ-2** *19.5* 7/9 **RWR-1** *20* 7/8	**RWQ-3** *18* 7/9 **RWR-2** *19* 6/7 **RWT-1** *23.5* 7/9		**RWS-1** *17* 7/9 **RWT-1** *21.5* 7/8
XVIII								**RWD-2** *8* 3/4 **RWF-1** *7.5* 4/6 **RWG-1** *10* 5/7 **RWG-2** *15.5* 6/8	**RWJ-1** *12* 5/6 **RWN-1** *12.5* 6/7 **RWN-2** *14.5* 6/7	**RWH-1** *16.5* 7/8 **RWJ-2** *12* 5/6 **RWK-1** *14* 6/7 **RWK-2** *16* 6/7	**RWM-1** *18* 7/8	**RWH-2** *16.5* 7/8 **RWJ-3** *12* 5/6 **RWK-3** *16* 6/7 **RWM-2** *17* 6/8	**RWO-1** *19.5* 7/8 **RWP-1** *18* 7/9	**RWO-2** *18* 7/8 **RWP-1** *16* 7/8 **RWP-2** *16.5* 6/8 **RWQ-1** *19* 7/9	**RWQ-2** *19.5* 7/9	**RWO-3** *17* 7/8 **RWQ-3** *18* 7/9 **RWR-1** *18.5* 6/8 **RWR-2** *19* 6/7		**RWS-1** *17* 7/9 **RWT-1** *21.5* 7/8
XIX								**RWD-2** *8* 3/4 **RWF-1** *7.5* 4/6 **RWN-1** *12.5* 6/7 **RWN-2** *14.5* 6/7		**RWK-1** *14* 6/7 **RWK-2** *16* 6/7		**RWH-1** *14.5* 6/8 **RWH-2** *16.5* 7/8 **RWK-3** *16* 6/7 **RWM-1** *16* 6/8	**RWM-2** *17* 6/8 **RWO-1** *19.5* 7/8	**RWP-1** *16* 7/8 **RWP-2** *16.5* 6/8 **RWQ-1** *19* 7/9		**RWO-2** *16.5* 6/7 **RWO-3** *17* 7/8 **RWQ-1** *17* 7/8 **RWQ-2** *17.5* 7/8	**RWQ-3** *18* 7/9 **RWR-1** *18.5* 6/8 RWR-2 **19** *6/7*	**RWS-1** *17* 7/9 **RWT-1** *21.5* 7/8
XX														**RWH-2** *15* 6/8 **RWO-1** *17.5* 6/7 **RWP-1** *16* 7/8		**RWO-2** *16.5* 6/7 **RWO-3** *17* 7/8 **RWP-2** *15* 6/7 **RWQ-1** *17* 7/8	**RWQ-2** *17.5* 7/8 **RWR-1** *18.5* 6/8 **RWR-2** *19* 6/7	**RWQ-3** *16.5* 7/8 **RWS-1** *17* 7/9 **RWT-1** *21.5* 7/8

IMPULSE ENGINE TYPES

Impulse Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Ship Classes Powered	SS Requirememnt	Availability	Cost (MCr)	Year
RIA-1	188	1	R-1M	I-I	0.1	RRR/44	10	2220
RIA-2	188	2	R-1M	I-II	0.1	RRR/42	17	2220
RIA-3	188	3	R-1M	I-II	0.1	RRR/40	26	2220
RIB-1	263	2	R-1M	II-VII	0.1	RRR/40	20	2229
RIB-2	263	3	R-1M	III-IX	0.1	RRR/37	30	2229
RIB-3	263	5	R-1M	IV-IX	0.1	RRR/34	48	2229
RIC-1	505	1	R-1M	II-V	0.1	RRR/35	21	2236
RIC-2	505	4	R-1M	IV-VIII	0.1	RRR/32	31	2236
RIC-3	505	5	R-1M	VIII-X	0.1	RRR/29	50	2236
RIC-4	505	6	R-1M	X-XIII	0.1	RRR/23	60	2256
RID-1	700	4	R-1M	VII-XIII	0.1	RRR/29	34	2244
RID-2	700	8	R-2M	VIII-XIII	0.1	RRR/26	62	2244
RID-3	700	12	R-2M	V-XIII	0.1	RRR/21	117	2261
RIE-1	788	10	R-2M	V-XIV	0.1	RRR/22	104	2251
RIE-2	788	15	R-3M	VII-XVII	0.1	RRR/18	151	2251
RIE-3	788	20	R-3M	X-XVIII	0.1	RRR/14	178	2251
RIF-1	900	12	R-3M	XII-XIX	0.1	RRI/12	122	2262
RIF-2	900	18	R-3M	XII-XIX	0.1	RRI/10	202	2262
RIF-3	900	28	R-4M	XIII-XIX	0.1	RRI/4	306	2262
RIG-1	800	20	R-4M	IX-XVII	0.1	RII/3	471	2292
RIG-2	800	30	R-5M	XII-XVIII	0.1	III/2	530	2305
RIH-1	1,500	25	R-4M	X-XIV	0.1	III/1	538	2310
RIH-2	1,500	35	R-5M	XIII-XX	0.1	III/1	657	2315
RII-1	2,715	36	R-4M	XII-XVII	0.1	III/4	76	2332
RII-2	2,715	38	R-5M	XIII-XVIII	0.1	III/3	54	2334
RII-3	2,715	40	R-4M	XV-XIX	0.1	III/3	84	2341
RIJ-1	3,150	42	R-5M	XIV-XVIII	0.1	III/3	61	2333
RIJ-2	3,150	44	R-5M-1	XVII-XIX	0.1	III/3	80	2336
RIJ-3	3,150	47	R-5M	XVIII-XX	0.1	III/3	98	2344
RIK-1	4,100	52	R-6M	XIV-XVIII	0.1	III/2	119	2340
RIK-2	4,100	55	R-5M	XV-XIX	0.1	III/2	89	2342
RIK-3	4,100	58	R-5M	XVI-XX	0.1	III/2	104	2345
RIL-1	3,010	37	R-4M	XII-XV	0.1	III/3	51	2343
RIL-2	3,010	39	R-4M	XIII-XVII	0.1	III/3	63	2344
RIL-3	3,010	40	R-4M	XIV-XIX	0.1	III/3	82	2350
RIL-4	3,010	46	R-5M-1	XVI-XX	0.1	III/3	83	2352
RIM-1	4,922	60	R-6M	XVII-XX	0.1	III/2	98	2345
RIM-2	4,922	62	R-5M	XVIII-XX	0.1	III/2	144	2348
RIM-3	4,922	65	R-6M	XIX-XX	0.1	III/2	145	2356
RIN-1	3,720	46	R-5M	XIII-XVI	0.1	III/3	89	2353
RIN-2	3,720	49	R-4M	XIV-XVIII	0.1	III/3	82	2355
RIN-3	3,720	54	R-6M	XV-XX	0.1	III/2	78	2361
RIO-1	5,170	56	R-5M-1	XVI-XIX	0.1	III/2	88	2358
RIO-2	5,170	68	R-6M-1	XVII-XX	0.1	III/2	105	2367
RIP-1	5,288	67	R-5M	XVII-XX	0.1	III/2	101	2362
RIP-2	5,288	70	R-6M-1	XVIII-XX	0.1	III/1	115	2370

MOVEMENT POINT RATIO TABLE: IMPULSE ENGINE

Movement Point Ratios

Ship Class	1/3	1/2	1/1		2/1		3/1		4/1		5/1			6/1		7/1	8/1	9/1	10/1
I	RIA-1 4 RIA-2 8.5	RIA-1 3 RIA-2 5.5 RIA-3 8.5	RIA-1 1.5 RIA-2 3 RIA-3 4																
II		RIA-2 5.5 RIA-3 8.5	RIA-2 3 RIA-3 4	RIB-1 3 RIC-1 1.5															
III			RIA-3 4 RIB-1 3	RIB-2 4 RIC-1 1.5	RIB-1 1.5 RIB-2 2	RIB-3 3.5 RIC-1 1													
IV					RIB-1 1.5 RIB-2 2 RIB-3 3.5	RIC-1 1 RIC-2 3	RIB-1 1 RIC-1 1												
V					RIB-1 1.5 RIB-2 2 RIB-3 3.5	RIC-2 3 RID-3 8.5	RIB-1 1 RIB-2 1.5 RIB-3 2.5	RIC-1 1 RIE-1 5											
VI					RIB-1 1.5 RIB-2 2 RIB-3 3.5	RIC-2 3 RID-3 8.5	RIB-1 1 RIB-2 1.5 RIB-3 2.5	RIE-1 5	RIB-1 0.5 RIB-3 2 RIC-2 1.5										
VII					RIB-1 1.5 RIB-2 2 RIB-3 3.5	RIC-2 3 RID-3 8.5	RIB-1 1 RIB-2 1.5 RIB-3 2.5	RIC-2 2 RID-1 2 RIE-1 5	RIB-3 2 RIC-2 1.5 RIE-1 3.5										
VIII							RIB-2 1.5 RIC-3 2.5 RID-1 2	RID-3 5.5	RIB-3 2 RIC-2 1.5 RIC-3 2	RID-3 4 RIE-1 3.5 RIE-2 5	RIE-1 3 RIE-2 4								
IX							RIB-2 1.5 RIC-3 2.5 RID-1 2 RID-2 4	RID-3 5.5 RIG-1 9	RIC-2 1.5 RIC-3 2 RID-1 1.5 RID-2 3	RID-3 4 RIE-1 3.5 RIE-2 5 RIG-1 7	RIC-3 1.5 RID-1 1 RIE-1 3 RIE-2 4	RIG-1 5.5							
X							RIC-3 2.5 RIC-4 3 RID-2 4 RID-3 5.5 RIG-1 9 RIH-1 12		RIC-3 2 RIC-4 2 RID-1 1.5 RID-2 3 RID-3 4 RID-3 4	RIE-1 3.5 RIE-2 5 RIE-3 7 RIG-1 7 RIH-1 9	RIC-3 1.5 RIC-4 1.5 RID-1 1 RIE-1 3 RIE-2 4 RIG-1 5.5	RIH-1 7							
XI									RIC-4 2 RID-1 1.5 RID-2 3 RID-3 4	RIE-2 5 RIE-3 7 RIG-1 7 RIH-1 9	RIC-4 1.5 RID-1 1 RID-2 2 RID-3 3.5	RIE-1 3 RIE-2 4 RIE-3 5.5 RIG-1 5.5	RIH-1 7						
XII									RIC-4 2 RID-1 1.5 RID-2 3 RIE-3 7 RIF-1 4	RIG-1 7 RIG-2 11 RIH-1 9 RII-1 13 RIL-1 13	RIC-4 1.5 RID-1 1 RID-2 2 RID-3 3.5 RIE-1 3	RIE-2 4 RIE-3 5.5 RIG-1 5.5 RIG-2 8.5 RIH-1 7	RII-1 10 RIL-1 10.5	RIG-1 5 RIG-2 7 RIH-1 6 RII-1 8.5 RIL-1 9		RIG-1 4 RIG-2 6 RII-1 7.5 RIL-1 7.5	RII-1 6.5 RIL-1 6.5	RIL-1 6	
XIII									RIF-1 4 RIF-2 6.5 RIG-1 7 RIG-2 11 RIH-1 9 RIH-2 12.5		RID-2 2 RID-3 3.5 RIE-2 4 RIE-3 5.5 RIF-1 3.5 RIF-2 5 RIF-3 8 RIG-1 5.5 RIG-2 8.5	RIH-1 7 RIH-2 10 RII-1 10 RII-2 11 RIL-1 10.5 RIL-2 11 RIN-1 13		RIC-4 1.5 RID-2 2 RIE-1 2 RIE-2 3.5 RIE-3 5 RIF-1 3 RIF-2 4 RIG-1 5 RIG-2 7	RIH-1 6 RIH-2 8.5 RII-1 8.5 RII-2 9 RIL-1 9 RIL-2 9 RIN-1 11	RIG-1 4 RIG-2 6 RII-1 7.5 RII-2 8 RIL-1 7.5 RIL-2 8 RIN-1 9.5	RII-1 6.5 RII-2 7 RIL-1 6.5 RIL-2 7 RIN-1 8	RII-2 6 RIL-1 6 RIL-2 6 RIN-1 7.5	RII-2 5.5 RIL-1 5

MOVEMENT POINT RATIO TABLE: IMPULSE ENGINE

Movement Point Ratios

Ship Class	5/1		6/1			7/1			8/1		9/1		10/1		11/1		12/1	
XIV	RIF-1 3.5 RIF-2 5 RIF-3 8 RIG-1 5.5 RIG-2 8.5 RIH-1 7 RIH-2 10 RII-1 10	RII-2 11 RIJ-1 12 RIK-1 15 RIL-2 11 RIL-3 11.5 RIN-1 13 RIN-2 14	RIE-1 2 RIE-2 3.5 RIE-3 5 RIF-1 3 RIF-2 4 RIG-1 5 RIG-2 7 RIH-1 6	RIH-2 8.5 RII-1 8.5 RII-2 9 RIJ-1 10 RIK-1 12.5 RIL-1 9 RIL-2 9 RIL-3 9.5	RIN-1 11 RIN-2 11.5	RIG-1 4 RIG-2 6 RIH-1 5 RIH-2 7 RII-1 7.5 RII-2 8 RIJ-1 8.5 RIK-1 10.5	RIL-1 7.5 RIL-2 8 RIL-3 8 RIN-1 9.5 RIN-2 10		RIG-1 3.5 RIG-2 5.5 RIH-2 6 RII-1 6.5 RII-2 7 RIJ-1 7.5 RIK-1 9 RIL-1 6.5	RIL-2 7 RIL-3 7 RIN-1 8 RIN-2 9	RII-2 6 RIK-1 8 RIL-1 6 RIL-2 6 RIL-3 6.5 RIN-1 7.5 RIN-2 8		RII-2 5.5 RIL-1 5 RIL-2 5.5 RIL-3 6 RIN-1 6.5 RIN-2 7		RIL-1 5 RIL-3 5			
XV	RIF-1 3.5 RIF-2 5 RIF-3 8 RIG-1 5.5 RIG-2 8.5 RIH-1 7 RIH-2 10 RII-2 11	RII-3 11.5 *RIJ-1* **12** *RIK-1* **15** *RIK-2* **16** *RIL-2* **11** *RIN-1* **13** *RIN-2* **14** *RIN-3* **15.5**	RIE-2 3.5 RIE-3 5 RIF-1 3 RIF-2 4 RIF-3 6.5 RIG-1 5 RIG-2 7 RIH-1 6	RIH-2 8.5 RII-1 8.5 RII-2 9 RII-3 9.5 RIJ-1 10 RIK-1 12.5 RIK-2 13 RIL-2 9	RIL-3 9.5 RIN-1 11 RIN-2 11.5 RIN-3 13	RIG-1 4 RIG-2 6 RIH-1 5 RIH-2 7 RII-1 7.5 RII-2 8 RII-3 8 RIJ-1 8.5	RIK-1 10.5 RIK-2 11 RIL-2 8 RIL-3 8 RIN-1 9.5 RIN-2 10 RIN-3 11		RIG-1 3.5 RIG-2 5.5 RIH-2 6 RII-1 6.5 RII-2 7 RII-3 7 RIJ-1 7.5 RIK-1 9	RIK-2 10 RIL-1 6.5 RIL-2 7 RIL-3 7 RIN-1 8 RIN-2 9 RIN-3 9.5	RII-2 6 RII-3 6.5 RIJ-1 6.5 RIK-1 8 RIK-2 9 RIL-1 6 RIL-2 6 RIL-3 6.5	RIN-1 7.5 RIN-2 8 RIN-3 8.5	RII-2 5.5 RII-3 6 RIK-2 8 RIL-1 5 RIL-2 5.5 RIL-3 6 RIN-1 6.5 RIN-2 7	RIN-3 8	RII-2 5 RII-3 5 RIK-2 7 RIL-1 5 RIL-3 5 RIN-2 6.5 RIN-3 7			
XVI			RIE-2 3.5 RIE-3 5 RIF-1 3 RIF-2 4 RIF-3 6.5 RIG-1 5 RIG-2 7 RIH-1 6 RIH-2 8.5	RII-1 8.5 RII-2 9 RII-3 9.5 RIJ-1 10 RIK-1 12.5 RIK-2 13 RIK-3 14 RIL-2 9 RIL-3 9.5	RIL-4 11 RIN-1 11 RIN-2 11.5 RIN-3 13 RIO-1 13.5	RIE-2 3 RIE-3 4 RIF-1 2.5 RIF-2 3.5 RIF-3 6 RIG-1 4 RIG-2 6 RIH-1 5 RIH-2 7	RII-1 7.5 RII-2 8 RII-3 8 RIJ-1 8.5 RIK-1 10.5 RIK-2 11 RIK-3 12 RIL-2 8 RIL-3 8	RIL-4 9.5 RIN-1 9.5 RIN-2 10 RIN-3 11 RIO-1 11.5	RIG-1 3.5 RIG-2 5.5 RIH-1 4.5 RIH-2 6 RII-1 6.5 RII-2 7 RII-3 7 RIJ-1 7.5 RIK-1 9	RIK-2 10 RIK-3 10.5 RIL-2 7 RIL-3 7 RIL-4 8 RIN-1 8 RIN-2 9 RIN-3 9.5 RIO-1 10	RII-1 6 RII-2 6 RII-3 6.5 RIJ-1 6.5 RIK-1 8 RIK-2 9 RIK-3 9 RIL-2 6 RIL-3 6.5	RIL-4 7.5 RIN-1 7.5 RIN-2 8 RIN-3 8.5 RIO-1 9	RII-1 5 RII-2 5.5 RII-3 6 RIJ-1 6 RIK-1 7.5 RIK-2 8 RIK-3 8 RIL-2 5.5 RIL-3 6	RIL-4 6.5 RIN-1 6.5 RIN-2 7 RIN-3 8 RIO-1 8	RII-1 4.5 RII-2 5 RII-3 5 RIJ-1 5.5 RIK-2 7 RIL-2 5 RIL-3 5 RIN-1 6 RIN-2 6.5	RIN-3 7 RIO-1 7	RII-3 5 RIK-2 6.5 RIL-3 5 RIN-2 6 RIN-3 6.5	
XVII			RII-2 9 RII-3 9.5 RIJ-1 10 RIJ-2 10.5 RIK-1 12.5 RIK-3 14 RIL-2 9 RIL-3 9.5 RIL-4 11 RIM-1 14 RIN-1 11	RIN-2 11.5 RIN-3 13 RIO-2 16 RIP-1 16		RIE-2 3 RIE-3 4 RIF-1 2.5 RIF-2 3.5 RIF-3 6 RIG-1 4 RIG-2 6 RIH-1 5 RIH-2 7 RII-2 8 RII-3 8	RIJ-1 8.5 RIJ-2 9 RIK-1 10.5 RIK-2 11 RIK-3 12 RIL-2 8 RIL-3 8 RIL-4 9.5 RIM-1 12 RIN-1 9.5 RIN-2 10	RIN-3 11 RIO-1 11.5 RIO-2 14 RIP-1 13.5	RIG-1 3.5 RIG-2 5.5 RIH-1 4.5 RIH-2 6 RII-1 6.5 RII-2 7 RII-3 7 RIJ-1 7.5 RIJ-2 8 RIK-1 9 RIK-2 10	RIK-3 10.5 RIL-2 7 RIL-3 7 RIL-4 8 RIM-1 11 RIN-1 8 RIN-2 9 RIN-3 9.5 RIO-1 10 RIO-2 12 RIP-1 12	RIG-1 3 RIG-2 5 RIH-1 4 RIH-2 5.5 RII-1 6 RII-2 6 RII-3 6.5 RIJ-1 6.5 RIJ-2 7 RIK-1 8 RIK-2 9	RIK-3 9 RIL-2 6 RIL-3 6.5 RIL-4 7.5 RIM-1 9.5 RIN-1 7.5 RIN-2 8 RIN-3 8.5 RIO-1 9 RIO-2 11 RIP-1 10.5	RII-1 5 RII-2 5.5 RII-3 6 RIJ-1 6 RIJ-2 6 RIK-1 7.5 RIK-2 8 RIK-3 8 RIL-2 5.5 RIL-3 6 RIL-4 6.5	RIM-1 8.5 RIN-1 6.5 RIN-2 7 RIN-3 8 RIO-1 8 RIO-2 10 RIP-1 9.5	RII-1 4.5 RII-2 5 RII-3 5 RIJ-1 5.5 RIK-2 7 RIK-3 7.5 RIL-2 5 RIL-3 5 RIM-1 8 RIN-1 6 RIN-2 6.5	RIN-3 7 RIO-1 7 RIO-2 9 RIP-1 9	RII-2 4.5 RII-3 5 RIK-2 6.5 RIK-3 7 RIL-3 5 RIN-2 6 RIN-3 6.5 RIO-2 8 RIP-1 8	
XVIII						RIF-1 2.5 RIF-2 3.5 RIF-3 6 RIG-2 6 RIH-2 7 RII-2 8 RII-3 8 RIJ-2 9 RIJ-3 9.5 RIK-1 10.5 RIK-3 12	RIL-3 8 RIL-4 9.5 RIM-1 12 RIM-2 12.5 RIN-2 10 RIN-3 11 RIO-1 11.5 RIP-1 13.5 RIP-2 14		RIG-2 5.5 RIH-2 6 RII-1 6.5 RII-2 7 RII-3 7 RIJ-1 7.5 RIJ-2 8 RIJ-3 8.5 RIK-1 9 RIK-2 10 RIK-3 10.5	RIL-3 7 RIL-4 8 RIM-1 11 RIM-2 11 RIN-2 9 RIN-3 9.5 RIO-1 10 RIO-2 12 RIP-1 12 RIP-2 12.5	RIG-2 5 RIH-2 5.5 RII-1 6 RII-2 6 RII-3 6.5 RIJ-1 6.5 RIJ-2 7 RIJ-3 7.5 RIK-1 8 RIK-2 9 RIK-3 9	RIL-3 6.5 RIL-4 7.5 RIM-1 9.5 RIM-2 10 RIN-2 8 RIN-3 8.5 RIO-1 9 RIO-2 11 RIP-1 10.5 RIP-2 11	RII-1 5 RII-2 5.5 RII-3 6 RIJ-1 6 RIJ-2 6 RIJ-3 7 RIK-1 7.5 RIK-2 8 RIK-3 8 RIL-3 6 RIL-4 6.5	RIM-1 8.5 RIM-2 9 RIN-2 7 RIN-3 8 RIO-1 8 RIO-2 10 RIP-1 9.5 RIP-2 10	RII-1 4.5 RII-2 5 RII-3 5 RIJ-1 5.5 RIJ-2 6 RIJ-3 6 RIK-2 7 RIK-3 7.5 RIL-3 5 RIM-1 8 RIM-2 8	RIN-2 6.5 RIN-3 7 RIO-1 7 RIO-2 9 RIP-1 9 RIP-2 9	RII-2 4.5 RII-3 5 RIJ-1 5 RIJ-3 5.5 RIK-2 6.5 RIK-3 7 RIL-3 5 RIM-1 7 RIM-2 7.5 RIN-2 6 RIN-3 6.5	RIO-2 8 RIP-1 8 RIP-2 8.5
XIX						RIF-1 2.5 RIF-2 3.5 RIF-3 6 RII-3 8 RIJ-2 9 RIK-3 12 RIL-3 8 RIL-4 9.5	RIM-1 12 RIM-3 13		RII-3 7 RIJ-2 8 RIJ-3 8.5 RIK-3 10.5 RIL-3 7 RIL-4 8 RIM-1 11 RIM-2 11	RIM-3 11.5 RIN-3 9.5 RIO-1 10 RIO-2 12	RIH-2 5.5 RII-3 6.5 RIJ-2 7 RIJ-3 7.5 RIK-2 9 RIK-3 9 RIL-3 6.5 RIL-4 7.5	RIM-1 9.5 RIM-2 10 RIM-3 10.5 RIN-3 8.5 RIO-1 9 RIO-2 11 RIP-1 10.5 RIP-2 11	RII-3 6 RIJ-2 6 RIJ-3 7 RIK-2 8 RIK-3 8 RIL-3 6 RIL-4 6.5 RIM-1 8.5	RIM-2 9 RIM-3 9 RIN-3 8 RIO-1 8 RIO-2 10 RIP-1 9.5 RIP-2 10	RII-3 5 RIJ-2 6 RIJ-3 6 RIK-2 7 RIK-3 7.5 RIL-3 5 RIM-1 8 RIM-2 8	RIM-3 8.5 RIN-3 7 RIO-1 7 RIO-2 9 RIP-1 9 RIP-2 9	RII-3 5 RIJ-2 5 RIJ-3 5.5 RIK-2 6.5 RIK-3 7 RIL-3 5 RIM-1 7 RIM-2 7.5	RIM-3 8 RIN-3 6.5 RIO-2 8 RIP-1 8 RIP-2 8.5
XX											RIH-2 5.5 RIJ-3 7.5 RIK-3 9 RIL-4 7.5 RIM-1 9.5	RIM-3 10.5 RIP-1 10.5	RIH-2 5 RIJ-3 7 RIK-3 8 RIL-4 6.5 RIM-1 8.5 RIM-2 9	RIM-3 9 RIN-3 8 RIO-2 10 RIP-1 9.5 RIP-2 10	RIJ-3 6 RIK-3 7.5 RIM-1 8 RIM-2 8 RIM-3 8.5	RIN-3 7 RIO-2 9 RIP-1 9 RIP-2 9	RIJ-3 5.5 RIK-3 7 RIM-1 7 RIM-2 7.5 RIM-3 8	RIN-3 6.5 RIO-2 8 RIP-1 8 RIP-2 8.5

SHIELD GENERATOR TYPES

Shield Generator Type	Total Mass (mt)	Control Computer Requirement	Shield Efficiency Rating	SS Requirememnt	Availability	Cost (MCr)	Year
RSA	105	R-1M	1	0.2	LRL/35	3	2235
RSB	145	R-1M	1	0.3	LRL/33	5	2236
RSC	205	R-2M	2	0.9	LRL/22	10	2240
RSD	170	R-2M	1	0.5	LRL/32	6	2242
RSE	235	R-3M	2	1.1	LRL/21	15	2243
RSF	330	R-4M	3	1.9	LRL/15	19	2245
RSG	230	R-2M	1	0.7	LRL/29	8	2246
RSH	320	R-4M	2	1.4	LRL/20	18	2247
RSI	450	R-5M	3	2	LRL/12	25	2248
RSJ	270	R-3M	1	0.8	LRL/28	10	2249
RSK	380	R-4M	2	1.9	LRL/17	21	2250
RSL	530	R-6M	3	2.1	LRL/11	29	2256
RSM	315	R-3M	1	0.9	LRL/27	11	2255
RSN	440	R-5M	2	2	LRL/16	24	2257
RSO	615	R-6M	3	2.4	LRL/10	35	2257
RSP	870	R-5M	3	2.2	LRL/9	41	2284
RSQ	1,439	R-7M	4	3.4	LRL/6	53	2286
RSR	610	R-6M	3	2.6	LRL/8	51	2287
RSS	1,608	R-7M	4	3.1	LRL/5	81	2298
RST	1,567	R-8M	2	3.5	LRL/1	60	2322
RSU	1,255	R-5M	3	2.9	LRL/1	58	2333
RSV	685	R-6M	2	1.5	LRL/1	56	2334
RSW	1,625	R-7M-1	4	4.6	LRL/1	90	2336
RSX	650	R-4M	2	1.2	LRL/1	38	2337
RSY	1,337	R-5M	3	2.8	LRL/1	62	2342
RSZ	1,170	R-6M	3	3.9	LRL/1	81	2348
RNSA	780	R-8M	4	5.3	LRL/1	103	2352
RNSB	785	R-6M-1	3	4.2	LRL/1	94	2353
RNSC	830	R-7M	3	5	LRL/1	116	2354
RNSD	798	R-9M	4	5.7	LRL/1	121	2354
RNSE	926	R-4M	3	1.3	LRL/1	45	2355
RNSF	984	R-9M	4	5.9	LRL/1	132	2357
RNSG	967	R-8M	3	7.2	LRL/1	162	2357
RNSH	1,030	R-7M-1	3	5.8	LRL/1	135	2358
RNSI	1,008	R-10M	4	6.1	LRL/1	144	2360
RNSJ	1,206	R-8M	3	6	LRL/1	146	2361
RNSK	1,138	R-8M	3	6.3	LRL/1	153	2363
RNSL	1,400	R-9M	3	7.6	LRL/1	168	2364
RNSM	1,385	R-7M	3	3.9	LRL/1	127	2365

SHIELD GENERATOR TYPES

Ship Class	1/1						1/2							
	RSA	RSB	RSD	RSG	RSJ	RSM	RSC	RSE	RSH	RSK	RSN	RST	RSV	RSX
I	5	9	12	15	15	15	12	14	15	15	15	40	38	25
	7	*13*	*17*	*21.5*	*21.5*	*21.5*	*8.5*	*10*	*10.5*	*10.5*	*10.5*	*28.5*	*27*	*18*
II	5	8	10	14	15	15	10	13	15	15	15	40	38	25
	7	*11.5*	*14.5*	*20*	*21.5*	*21.5*	*7*	*9.5*	*10.5*	*10.5*	*10.5*	*28.5*	*27*	*18*
III	5	7	9	14	15	15	8	12	14	15	15	40	37	25
	7	*10*	*13*	*20*	*21.5*	*21.5*	*5.5*	*8.5*	*10*	*10.5*	*10.5*	*28.5*	*26*	*18*
IV	4	7	8	14	15	15	7	10	13	15	15	40	37	25
	5.5	*10*	*11.5*	*20*	*21.5*	*21.5*	*5*	*7*	*9.5*	*10.5*	*10.5*	*28.5*	*26*	*18*
V	4	6	8	13	14	15	6	8	11	14	15	40	37	25
	5.5	*8.5*	*11.5*	*18.5*	*20*	*21.5*	*4*	*5.5*	*8*	*10*	*10.5*	*28.5*	*26*	*18*
VI	3	5	7	13	14	15	5	8	11	14	15	40	37	25
	4.5	*4*	*10*	*18.5*	*20*	*21.5*	*3.5*	*5.5*	*8*	*10*	*10.5*	*28.5*	*26*	*18*
VII	3	1	7	12	14	15	5	7	10	14	15	40	36	25
	4.5	*5.5*	*10*	*17*	*20*	*21.5*	*3.5*	*5*	*7*	*10*	*10.5*	*28.5*	*25.5*	*18*
VIII	2	3	7	11	13	15	5	6	8	13	15	40	36	25
	3	*4.5*	*10*	*15.5*	*18.5*	*21.5*	*3.5*	*4*	*5.5*	*9.5*	*10.5*	*28.5*	*25.5*	*18*
IX	1	2	6	10	13	15	4	5	6	13	15	40	36	25
	1.5	*3*	*8.5*	*14.5*	*18.5*	*21.5*	*3*	*3.5*	*4*	*9.5*	*10.5*	*28.5*	*25.5*	*18*
X	1	1	6	9	13	15	3	5	6	12	15	40	35	25
	1.5	*1.5*	*8.5*	*13*	*18.5*	*21.5*	*2*	*3.5*	*4*	*8.5*	*10.5*	*28.5*	*25*	*18*
XI	-	1	5	7	12	13	2	4	5	12	15	40	35	25
	-	*1.5*	*7*	*10*	*17*	*18.5*	*1.5*	*3*	*3.5*	*8.5*	*10.5*	*28.5*	*25*	*18*
XII	-	-	4	5	10	11	2	3	5	11	15	40	35	25
	-	-	5.5	7	14.5	15.5	1.5	2	3.5	8	10.5	28.5	25	18
XIII	-	-	2	3	8	9	1	2	4	10	15	40	35	25
	-	-	3	4.5	11.5	13	0.5	1.5	3	7	10.5	28.5	25	18
XIV	-	-	1	2	6	7	-	1	3	8	13	40	34	25
	-	-	1.5	3	8.5	10	-	0.5	2	5.5	9.5	28.5	24	18
XV	-	-	-	1	3	5	-	-	3	7	10	40	34	25
	-	-	-	1.5	4.5	7	-	-	2	5	7	28.5	24	18
XVI	-	-	-	-	2	3	-	-	2	6	8	40	34	25
	-	-	-	-	3	4.5	-	-	1.5	4	5.5	28.5	24	18
XVII	-	-	-	-	1	2	-	-	2	5	7	40	33	25
	-	-	-	-	1.5	3	-	-	1.5	3.5	5	28.5	23.5	18
XVIII	-	-	-	-	-	1	-	-	1	4	5	40	33	25
	-	-	-	-	-	1.5	-	-	0.5	3	3.5	28.5	23.5	18
XIX	-	-	-	-	-	-	-	-	1	3	5	40	33	25
	-	-	-	-	-	-	-	-	0.5	2	3.5	28.5	23.5	18
XX	-	-	-	-	-	-	-	-	-	2	4	40	33	25
	-	-	-	-	-	-	-	-	-	1.5	3	28.5	23.5	18

MAXIMUM SHIELD POWER
Shield Types/Shield Point Ratios

Ship	1/3																		1/4						
Class	RSF	RSI	RSL	RSO	RSP	RSR	RSU	RSY	RSZ	RNSB	RNSC	RNSE	RNSG	RNSH	RNSJ	RNSK	RNSL	RNSM	RSQ	RSS	RSW	RNSA	RNSD	RNSF	RNSI
I	15	15	15	15	18	24	26	28	36	42	52	20	72	60	64	68	75	56	19	27	30	34	40	44	48
	7	*7*	*7*	*7*	*9*	*11.5*	*12.5*	*13*	*17*	*20*	*25*	*9.5*	*34*	*28.5*	*30.5*	*32*	*35.5*	*26.5*	*7*	*10*	*10.5*	*12*	*14*	*15.5*	*17*
II	15	15	15	15	18	24	26	28	36	42	52	20	71	60	64	67	74	56	19	27	30	34	40	44	48
	7	*7*	*7*	*7*	*9*	*11.5*	*12.5*	*13*	*17*	*20*	*25*	*9.5*	*33.5*	*28.5*	*30.5*	*32*	*35*	*26.5*	*7*	*10*	*10.5*	*12*	*14*	*15.5*	*17*
III	13	15	15	15	18	24	26	28	36	42	52	20	71	60	63	67	74	56	19	27	30	34	40	44	48
	6	*7*	*7*	*7*	*9*	*11.5*	*12.5*	*13*	*17*	*20*	*25*	*9.5*	*33.5*	*28.5*	*30*	*32*	*35*	*26.5*	*7*	*10*	*10.5*	*12*	*14*	*15.5*	*17*
IV	10	15	15	15	18	24	25	28	36	42	52	20	70	60	63	66	73	56	19	27	29	34	40	44	48
	5	*7*	*7*	*7*	*9*	*11.5*	*12*	*13*	*17*	*20*	*25*	*9.5*	*33*	*28.5*	*30*	*31*	*34.5*	*26.5*	*7*	*10*	*10.5*	*12*	*14*	*15.5*	*17*
V	8	14	15	15	18	24	25	28	36	42	52	20	70	59	62	66	73	56	19	27	29	34	40	44	48
	4	*6.5*	*7*	*7*	*9*	*11.5*	*12*	*13*	*17*	*20*	*25*	*9.5*	*33*	*28*	*29.5*	*31*	*34.5*	*26.5*	*7*	*10*	*10.5*	*12*	*14*	*15.5*	*17*
VI	8	14	15	15	18	24	25	28	36	41	52	20	69	59	62	65	72	56	19	27	29	34	40	43	47
	4	*6.5*	*7*	*7*	*9*	*11.5*	*12*	*13*	*17*	*19.5*	*25*	*9.5*	*33*	*28*	*29.5*	*31*	*34*	*26.5*	*7*	*10*	*10.5*	*12*	*14*	*15.5*	*17*
VII	7	12	15	15	18	24	25	28	35	41	52	20	69	59	61	65	72	56	19	27	29	33	39	43	47
	3.5	*5.5*	*7*	*7*	*9*	*11.5*	*12*	*13*	*16.5*	*19.5*	*25*	*9.5*	*33*	*28*	*29*	*31*	*34*	*26.5*	*7*	*10*	*10.5*	*12*	*14*	*15.5*	*17*
VIII	7	11	15	15	18	24	25	28	35	41	52	20	68	59	61	64	71	56	19	27	28	33	39	43	47
	3.5	*5*	*7*	*7*	*9*	*11.5*	*12*	*13*	*16.5*	*19.5*	*25*	*9.5*	*32*	*28*	*29*	*30.5*	*33.5*	*26.5*	*7*	*10*	*10*	*12*	*14*	*15.5*	*17*
IX	6	11	14	15	18	24	24	27	35	41	51	20	68	59	60	64	71	56	19	27	28	33	39	43	47
	3	*5*	*6.5*	*7*	*9*	*11.5*	*11.5*	*13*	*16.5*	*19.5*	*24*	*9.5*	*32*	*28*	*28.5*	*30.5*	*33.5*	*26.5*	*7*	*10*	*10*	*12*	*14*	*15.5*	*17*
X	6	10	14	15	18	24	24	27	35	41	51	20	67	59	60	63	70	56	19	27	28	33	39	43	47
	3	*5*	*6.5*	*7*	*9*	*11.5*	*11.5*	*13*	*16.5*	*19.5*	*24*	*9.5*	*32*	*28*	*28.5*	*30*	*33*	*26.5*	*7*	*10*	*10*	*12*	*14*	*15.5*	*17*
XI	5	8	13	15	18	24	24	27	35	41	50	20	67	59	59	63	69	56	19	27	28	33	39	43	47
	2.5	*4*	*6*	*7*	*9*	*11.5*	*11.5*	*13*	*16.5*	*19.5*	*24*	*9.5*	*32*	*28*	*28*	*30*	*33*	*26.5*	*7*	*10*	*10*	*12*	*14*	*15.5*	*17*
XII	5	7	13	15	18	24	24	27	35	41	50	20	66	58	59	62	69	56	18	27	28	33	39	43	47
	2.5	*3.5*	*6*	*7*	*9*	*11.5*	*11.5*	*13*	*16.5*	*19.5*	*24*	*9.5*	*31*	*27.5*	*28*	*29.5*	*33*	*26.5*	*6.5*	*10*	*10*	*12*	*14*	*15.5*	*17*
XIII	4	6	12	15	18	24	24	27	35	41	50	20	66	58	58	62	68	56	18	27	27	33	39	43	47
	2	*3*	*5.5*	*7*	*9*	*11.5*	*11.5*	*13*	*16.5*	*19.5*	*24*	*9.5*	*31*	*27.5*	*27.5*	*29.5*	*32*	*26.5*	*6.5*	*10*	*9.5*	*12*	*14*	*15.5*	*17*
XIV	4	5	11	15	18	24	23	27	35	41	49	20	65	58	58	61	68	56	18	27	27	33	39	43	46
	2	*2.5*	*5*	*7*	*9*	*11.5*	*11*	*13*	*16.5*	*19.5*	*23*	*9.5*	*31*	*27.5*	*27.5*	*29*	*32*	*26.5*	*6.5*	*10*	*9.5*	*12*	*14*	*15.5*	*16*
XV	4	5	10	15	18	24	23	27	35	41	49	20	64	58	57	61	67	56	17	27	27	33	39	42	46
	2	*2.5*	*5*	*7*	*9*	*11.5*	*11*	*13*	*16.5*	*19.5*	*23*	*9.5*	*30.5*	*27.5*	*27*	*29*	*32*	*26.5*	*6*	*10*	*9.5*	*12*	*14*	*15*	*16*
XVI	-	-	-	15	18	24	23	27	35	40	48	20	64	58	57	60	67	56	17	27	27	33	39	42	46
	-	-	-	*7*	*9*	*11.5*	*11*	*13*	*16.5*	*19*	*23*	*9.5*	*30.5*	*27.5*	*27*	*28.5*	*32*	*26.5*	*6*	*10*	*9.5*	*12*	*14*	*15*	*16*
XVII	-	-	-	15	18	24	23	27	35	40	48	20	63	58	56	60	66	56	17	27	26	33	38	42	46
	-	-	-	*7*	*9*	*11.5*	*11*	*13*	*16.5*	*19*	*23*	*9.5*	*30*	*27.5*	*26.5*	*28.5*	*31*	*26.5*	*6*	*10*	*9*	*12*	*13.5*	*15*	*16*
XVIII	-	-	-	15	18	24	23	27	34	40	48	20	63	57	56	59	65	56	16	27	26	33	38	42	46
	-	-	-	*7*	*9*	*11.5*	*11*	*13*	*16*	*19*	*23*	*9.5*	*30*	*27*	*26.5*	*28*	*31*	*26.5*	*5.5*	*10*	*9*	*12*	*13.5*	*15*	*16*
XIX	-	-	-	14	17	24	22	27	34	40	47	20	62	57	55	59	65	56	16	25	26	32	38	42	46
	-	-	-	*6.5*	*9*	*11.5*	*10.5*	*13*	*16*	*19*	*22*	*9.5*	*29.5*	*27*	*26*	*28*	*31*	*26.5*	*5.5*	*9*	*9*	*11.5*	*13.5*	*15*	*16*
XX	-	-	-	14	17	24	22	27	34	40	47	20	62	57	55	58	64	56	16	25	26	32	38	42	46
	-	-	-	*6.5*	*9*	*11.5*	*10.5*	*13*	*16*	*19*	*22*	*9.5*	*29.5*	*27*	*26*	*27.5*	*30.5*	*26.5*	*5.5*	*6*	*9*	*11.5*	*13.5*	*15*	*16*

DISRUPTOR BEAM WEAPON TYPES

Phaser Weapon Type	Total Mass (mt)	Maximum Beam Power	Damage Modifiers +3	+2	+1	Maximum Range (Hex)	Firing Chart	Weapon Damaging Factor	SS Requirements (single / bank)	Availability	Cost (MCr)	Year
RB-1	200	2	(-)	(-)	(-)	10	G	0.5	0.5 / 0.8	RRI/48	30	2225
RB-2	225	2	(-)	(-)	(-)	15	K	0.8	0.6 / 0.9	RRI/48	33	2227
RB-2a	400	3	(1-4)	(5-9)	(10-14)	15	K	2.1	0.8 / 1.2	III/46	60	2233
RB-3	600	6	(-)	(-)	(1-4)	4	A	0.8	0.3 / 0.5	RRI/42	90	2231
RB-3a	750	6	(1-3)	(4-8)	(9-12)	12	L	3.7	0.7 / 1	III/42	112	2240
RB-4	650	6	(1-2)	(3-6)	(7-10)	10	J	3.2	0.6 / 0.9	III/42	97	2245
RB-5	750	5	(1-10)	(11-16)	(17-21)	21	V	4.7	1.5 / 2.3	III/43	112	2249
RB-6	650	6	(-)	(1-18)	(-)	18	T	5.1	1.3 / 1.9	III/42	98	2250
RB-7	500	4	(-)	(1-6)	(7-10)	10	J	2.3	0.6 / 0.9	III/45	75	2250
RB-7a	675	4	(1-3)	(4-9)	(10-14)	14	M	3	0.9 / 1.2	III/45	101	2257
RB-8	600	6	(1-4)	(5-9)	(10-13)	13	N	4.1	1 / 1.5	III/42	90	2251
RB-9	700	6	(1-8)	(9-16)	(17-20	20	W	6.5	1.5 / 2.3	III/42	105	2260
RB-10	750	8	(1-8)	(9-16)	(17-20)	20	U	6.9	1.6 / 2.4	III/40	113	2266
RB-11	850	9	(1-10)	(11-16)	(17-21)	21	V	7.9	1.8 / 2.8	III/39	128	2267
RB-12	510	9	(1-10)	(11-15)	(16-20)	20	W	8.8	0.9 / 1.4	III/39	77	2284
RB-13	950	11	(1-10)	(11-16)	(17-21)	21	V	9.4	2.1 / 3.2	III/37	143	2294
RB-14	1,210	17	(1-5)	(6-12)	(13-18)	18	T	12.5	2.4 / 3.5	III/31	182	2308
RB-15	1,450	15	(1-8)	(9-16)	(17-20)	20	U	11.7	1.9 / 2.9	III/33	218	2319
RB-16	1,630	20	(1-10)	(11-16)	(17-21)	21	V	15.7	2.9 / 4.4	III/29	246	2325
RB-17	1,250	23	(1-14)	(15-17)	(18-20)	20	W	19.3	4.4 / 5.9	III/27	189	2333
RB-18	1,420	25	(1-7)	(8-17)	(18-20)	20	U	18.4	5 / 6.8	III/26	214	2336
RB-19	1,530	27	(1-10)	(11-14)	(15-20)	21	V	20.6	5.2 / 6.9	III/24	231	2340
RB-20	1,050	24	(1-7)	(8-12)	(13-22)	22	X	20.5	4.8 / 6.5	III/26	159	2341
RB-21	980	21	(1-3)	(4-16)	(17-18)	18	T	14.7	4.1 / 5.4	III/28	148	2343
RB-22	760	17	(1-12)	(13-17)	(18-20)	20	W	14.7	3.3 / 4.4	III/31	115	2343
RB-23	1,130	20	(1-8)	(9-16)	(17-20)	20	W	16.8	4.4 / 5.9	III/29	171	2347
RB-24	520	11	(1-16)	(17-19)	(20-22)	22	X	10.8	2.5 / 3.3	III/37	79	2348
RB-25	1,655	31	(1-7)	(8-15)	(16-18)	18	T	21.1	6.1 / 8	III/21	250	2352
RB-26	455	8	(1-20)	(21-22)	(23-24)	24	Y	8.7	1.7 / 2.3	III/40	69	2352
RB-27	850	15	(1-15)	(16-17)	(18-23)	24	Y	13.9	3 / 4.1	III/33	128	2355
RB-28	1,660	29	(1-8)	(9-15)	(16-20)	20	U	21.1	5.7 / 7.6	III/23	251	2356
RB-29	1,790	30	(1-9)	(10-17)	(18-21)	21	V	22.8	6.5 / 8.6	III/22	270	2358
RB-30	1,830	32	(-)	(1-7)	(8-20)	20	W	25.2	6.6 / 8.9	III/21	277	2359
RB-31	1,870	33	(1-8)	(9-15)	(16-20)	20	U	23.8	6.8 / 9.1	III/20	282	2361
RB-32	1,980	35	(1-10)	(11-14)	(15-20)	21	V	26.3	6.8 / 8.9	III/19	299	2362
RB-33	1,230	22	(1-7)	(8-12)	(13-22)	22	X	19	4.6 / 6.1	III/28	186	2363
RB-34	1,560	26	(1-7)	(8-12)	(13-22)	22	X	22.1	5 / 6.6	III/25	236	2364
RB-35	859	28	(1-13)	(14-15)	(16-19)	21	V	21.4	3.4 / 4.8	III/23	130	2365
RB-36	1,025	34	(1-3)	(4-12)	(13-20)	20	W	27	4.1 / 5.6	III/20	156	2367

DISRUPTOR BEAM WEAPON TYPES

Phaser Weapon Type	Total Mass (mt)	Maximum Beam Power	Damage Modifiers +3	+2	+1	Maximum Range (Hex)	Firing Chart	Weapon Damaging Factor	SS Requirements (single / bank)	Availability	Cost (MCr)	Year
RMD-1	440	12	(1-3)	(4-7)	(8-10)	10	H	4.7	1.5 / 2.3	III/16	132	2288
RMD-2	520	20	(1-4)	(5-7)	(8-10)	10	J	9.1	2.1 / 2.9	III/14	156	2289
RMD-3	600	16	(1-4)	(5-8)	(9-12)	12	L	8.2	1.9 / 2.5	III/15	180	2290
RMD-4	620	28	(1-4)	(5-9)	(10-14)	14	O	16	2.8 / 3.2	III/8	188	2291
RMD-5	640	12	(1-5)	(6-9)	(10-14)	14	Q	7.9	2.6 / 3.8	III/15	192	2294
RMD-6	680	24	(1-5)	(6-9)	(10-14)	14	Q	14.7	3.7 / 4.3	III/13	206	2296
RMD-7	470	20	(1-5)	(6-11)	(12-16)	16	S	13.8	5.4 / 7.2	III/14	142	2331
RMD-8	380	16	(1-14)	(15-17)	(18-21)	21	V	13.1	4.9 / 6.6	III/16	116	2332
RMD-9	520	22	(1-14)	(15-18)	(19-20)	20	W	17.1	6.2 / 8.2	III/13	158	2333
RMD-10	570	24	(1-4)	(5-12)	(13-18)	18	T	16.5	7 / 9.4	III/12	174	2335
RMD-11	705	30	(1-2)	(3-12)	(13-14)	14	M	15.2	7.8 / 10.3	III/9	214	2336
RMD-12	830	35	(1-7)	(8-13)	(14-18)	18	T	23.6	9.5 / 12.7	III/7	252	2338
RMD-13	950	40	(1-10)	(11-14)	(15-16)	16	S	26.6	11 / 14.7	III/4	290	2341
RMD-14	1,050	45	(-)	(1-13)	(14-18)	18	T	29.8	12.2 / 16.3	III/3	320	2343

PHOTON TORPEDO WEAPON TYPES

Missile Weapon Type	Mass (mt)	Power to Arm	Damage	Range	Firing Chart	WDF	SS	Availability	Cost (MCr)	Year
RP-1	135	1	6	8	F	1.5	0.8	III/36	20	2255
RP-2	180	1	8	10	H	2.4	1	III/32	27	2257
RP-3	225	1	10	14	Q	5.5	1.2	III/28	34	2257
RP-4	250	1	12	18	P	6.6	1.9	III/18	38	2284
RP-5	275	1	15	16	R	8.9	1.3	III/17	41	2287
RP-6	310	1	18	14	M	8.6	2.2	III/15	47	2289
RP-7	280	1	20	16	R	11.9	1.5	III/15	42	2295
RP-8	320	1	30	16	S	18.8	1.8	III/11	48	2325
RP-9	360	1	25	14	Q	13.6	1.7	III/13	54	2335
RP-10	492	1	34	14	M	16.1	2.4	III/10	74	2338
RP-11	455	1	32	13	N	15.6	2.6	III/11	68	2341
RP-12	315	1	22	16	S	13.7	1.3	III/14	47	2342
RP-13	230	1	16	18	S	10	1	III/16	35	2343
RP-14	120	1	14	14	Q	7.6	0.9	III/17	18	2345
RP-15	330	1	23	16	R	13.6	1.2	III/14	50	2347
RP-16	380	1	27	16	R	16	2.5	III/12	57	2352
RP-17	465	1	32	18	M	15.2	2.6	III/11	70	2356
RP-18	505	1	35	14	Q	19.1	2.8	III/10	76	2359
RP-19	415	1	29	16	R	17.2	1.9	III/12	62	2362
RP-20	550	1	38	16	S	23.7	3.6	III/9	83	2374

PLASMA BOLT WEAPON TYPES

Missile Weapon Type	Mass (mt)	Power to Arm	Damage	Range	Firing Chart	WDF	SS	Availability	Cost (MCr)	Year
RPL-1	120	10	RL-1	8	E	3.9	2.1	III/1	18	2201
RPL-2	180	15	RL-2	14	M	11.1	3.4	III/1	27	2217
RPL-3	150	8	RL-3	18	T	13.7	2.5	III/1	23	2253
RPL-4	205	12	RL-4	18	T	18.8	4.8	III/1	31	2293

PLASMA TORPEDO WEAPON TYPES

Missile Weapon Type	Mass (mt)	Power to Arm	Damage	Range	Firing Chart	WDF	SS	Availability	Cost (MCr)	Year
RPT-1	200	4	20	8	E	4.3	4.1	III/1	30	2328
RPT-2	400	4	40	18	T	25.5	3.2	III/1	60	2330
RPT-3	225	4	25	14	Q	13.6	3.8	III/1	34	2337
RPT-4	310	4	30	14	M	14.2	4.9	III/1	47	2346
RPT-5	850	4	50	10	H	16.3	7.1	III/1	128	2350

TOTAL DAMAGE FROM ROMULAN PLASMA WEAPONS

Range	*RL-1*	*RL-2*	*RL-3*	*RL-4*
1	24/12	32/16	28/14	44/22
2	20/10	32/16	28/14	44/22
3	20/10	32/16	28/14	40/20
4	16/8	24/12	28/14	40/20
5	16/8	24/12	24/12	36/18
6	12/6	24/12	24/12	36/18
7	8/4	20/10	24/12	32/16
8	4/2	20/10	24/12	32/16
9	-/-	16/8	20/10	28/14
10	-/-	16/8	20/10	28/14
11	-/-	12/6	20/10	24/12
12	-/-	12/6	16/8	24/12
13	-/-	8/4	16/8	20/10
14	-/-	8/4	12/6	20/10
15	-/-	-/-	12/6	16/8
16	-/-	-/-	8/4	12/6

Create new starship for your Romulan based characters.

This supplement to the Ship Construction Manual contains all the information necessary to construct Romulan based starships for your Star Trek Role Playing Games. From manueverable cutters to deadly cruisers, this book allow you to design state-of-the-art starships using Romulan components. The easy-to-use format combined with the comprehensive data provides both historical and modern equipment and components necessary to build a variety of Romulan ships in the FASA Star Trek Universe.

This rulebook includes tables for computers, engines weapons and shields that are used by the Romulan Star Empire. These charts can help starship engineers create accuarte vessels for both the Star Trek Role Playing Game as well as Star Trek Starship Tactical Combat Simulator.

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