A supplement for use with

STAR TREK®
THE ROLE PLAYING GAME

2204S - Orions

STARSHIP CONSTRUCTION MANUAL

ORION COLONIES

fasa

COMPUTER CONTROL SYSTEM TYPES

Control Computer Type	System Mass (mt)	Approrpiate Ship Classes	SS Requirement	Maximum WDF Allowed	Availability	Cost (MCr)	Year
Mark I	40	I-III	0.1	2	RRR/68	3	2198
Mark Ia	200	I-VII	0.5	10	RRR/62	15	2224
Mark II	320	II-VI	0.3	8	RRR/63	9	2216
Mark III	860	II-X	0.5	22	RRR/59	22	2231
Mark IIIa	1,300	III-VIII	3.3	65	RRR/49	98	2273
Mark IV	2,750	III-X	1	40	RRR/52	50	2266
Mark V	3,090	VI-XIV	1.1	45	RRR/51	56	2270
Mark VI	3,480	IV-IX	3.3	85	RRR/47	98	2279
Mark VII	4,125	VII-XV	1.5	60	RRR/49	75	2271
Mark VIII	5,500	X-XIX	2	90	RRR/46	100	2274
Mark IX	2,200	V-XI	2.1	55	RRR/50	62	2279
Mark X	7,560	XI-XX	2.8	110	RRR/44	138	2286

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
OWA-1	6,000	15	Mark III	E/D	0.5	RRR/55	65	2231
OWA-2	6,000	17	Mark III	F/D	0.5	RRR/50	85	2246
OWB-1	1,400	8	Mark I	C/D	0.2	LLL/65	20	2239
OWB-2	1,900	11	Mark I	G/H	0.3	RRR/62	34	2272
OWC-1	3,000	6	Mark I	E/E	0.4	LLL/60	38	2242
OWC-2	3,000	10	Mark I	E/E	0.6	RRR/53	41	2259
OWD-1	10,000	12	Mark III	J/L	1	RRR/57	200	2250
OWD-2	12,000	16	Mark III	K/L	1.2	RRR/56	245	2257
OWD-3	15,000	20	Mark III	F/D	1.6	RRR/53	309	2269
OWE-1	8,000	10	Mark III	J/K	0.8	RRR/54	175	2261
OWE-2	8,000	13	Mark II	J/K	1	RRR/50	198	2268
OWF-1	31,000	16	Mark III	F/G	2.4	RRR/57	279	2271
OWF-2	31,000	19	Mark III	F/G	3.4	RRR/54	332	2276
OWF-3	31,000	21	Mark IV	F/G	4	RRR/52	337	2279
OWG-1	44,000	8	Mark II	J/H	4.4	LLL/65	132	2267
OWG-2	44,000	12	Mark III	J/H	4.9	RRR/61	152	2268
OWH-1	56,000	10	Mark III	L/M	5.6	RRR/63	224	2270
OWH-2	56,000	16	Mark IV	L/M	6.1	RRR/57	259	2271
OWI-1	28,000	14	Mark III	L/O	2.2	RRR/59	168	2264
OWI-2	28,000	18	Mark III	M/O	2.5	RRR/55	184	2269
OWI-3	28,000	23	Mark IV	L/N	2.7	RRR/50	297	2276
OWJ-1	7,800	12	Mark III	H/J	3.4	RRR/61	78	2263
OWJ-2	11,200	13	Mark III	P/P	4.8	RRR/60	224	2265
OWJ-3	13,800	16	Mark IV	P/P	6	RRR/57	300	2283
OWK-1	33,600	18	Mark IV	K/M	2.7	RRR/55	308	2268
OWK-2	40,000	21	Mark IV	M/N	3.2	RRR/52	420	2290
OWL-1	50,400	18	Mark VI	I/N	3.6	RRR/55	535	2274
OWM-1	58,800	21	Mark VII	L/M	5.4	RRR/52	635	2279
OWM-2	67,200	24	Mark VII	L/M	6.2	RRR/49	668	2288

WARP ENGINE TYPES
Tandem Nacelle Use

Warp Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Stress Column (Eng/SS)	SS Requirememnt	Availability	Cost (MCr)	Year
OWA-1	12,000	15 ea.	Mark IV	G/F	1	RRR/55	145	2231
OWA-2	12,000	17 ea.	Mark IV	G/F	1	RRR/50	180	2246
OWB-1	2,800	9 ea.	Mark III	D/F	0.4	LLL/65	45	2239
OWB-2	3,800	11 ea.	Mark II	D/F	0.6	RRR/62	75	2272
OWC-1	6,000	6 ea.	Mark III	E/F	0.8	LLL/60	80	2242
OWC-2	6,000	10 ea.	Mark III	E/F	1.2	RRR/53	90	2259
OWD-1	20,000	12 ea.	Mark III	K/M	2	RRR/57	440	2250
OWD-2	24,000	16 ea.	Mark IV	K/M	2.4	RRR/56	539	2257
OWD-3	30,000	20 ea.	Mark IV	G/F	3.2	RRR/53	680	2269
OWE-1	16,000	10 ea.	Mark III	K/L	1.6	RRR/54	390	2261
OWE-2	16,000	13 ea.	Mark III	K/L	2	RRR/50	436	2268
OWF-1	62,000	16 ea.	Mark IV	L/M	4.8	RRR/57	614	2271
OWF-2	62,000	19 ea.	Mark IV	L/M	6.8	RRR/54	730	2276
OWF-3	62,000	21 ea.	Mark V	L/M	8	RRR/52	741	2279
OWG-1	88,000	8 ea.	Mark III	L/J	8.8	LLL/65	290	2267
OWG-2	88,000	12 ea.	Mark IV	L/J	9.8	RRR/61	334	2268
OWH-1	112,000	10 ea.	Mark IV	M/N	11.2	RRR/63	493	2270
OWH-2	112,000	16 ea.	Mark V	M/N	12.2	RRR/57	570	2271
OWI-1	56,000	14 ea.	Mark V	M/P	4.4	RRR/59	370	2264
OWI-2	56,000	18 ea.	Mark V	N/P	5	RRR/55	405	2269
OWI-3	56,000	23 ea.	Mark IX	M/O	5.4	RRR/50	653	2276
OWJ-1	15,600	12 ea.	Mark IV	K/M	6.8	RRR/61	172	2263
OWJ-2	22,400	13 ea.	Mark IV	Q/Q	9.6	RRR/60	493	2265
OWJ-3	27,600	16 ea.	Mark VI	Q/Q	12	RRR/57	660	2283
OWK-1	67,200	18 ea.	Mark V	L/N	5.4	RRR/55	678	2268
OWK-2	80,000	21 ea.	Mark VI	M/N	6.4	RRR/52	924	2290
OWL-1	100,800	18 ea.	Mark VI	J/N	7.2	RRR/55	1,177	2274
OWM-1	117,600	21 ea.	Mark VII	M/N	10.8	RRR/52	1,397	2279
OWM-2	134,400	24 ea.	Mark VIII	M/N	12.4	RRR/49	1,470	2288

MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

Ship Class	Movement Point Ratios																
	1/2	1/1		2/1			3/1			4/1			5/1			6/1	
I	**OWB-1** *23* 5/7 **OWC-1** *17* 7/8	**OWB-1** *11.5* 4/7 **OWB-2** *16* 6/8	**OWC-2** *14* 7/8	**OWB-1** *6* 4/6 **OWB-2** *8* 6/7	**OWC-2** *7* 6/7		**OWB-2** *5* 5/7 **OWC-2** *5* 5/7			**OWB-2** *4* 5/6							
II		**OWA-1** *21.5* 8/10 **OWA-2** *24* 8/10 **OWC-1** *8.5* 6/7 **OWE-2** *18.5* 6/8	**OWJ-1** *17* 6/8 **OWJ-2** *18.5* 6/8	**OWA-1** *11* 8/9 **OWA-2** *12* 7/9 **OWB-1** *6* 4/6 **OWC-2** *7* 6/7	**OWD-1** *8.5* 6/8 **OWD-2** *11.5* 6/8 **OWE-1** *7* 6/7 **OWE-2** *9* 6/7	**OWJ-1** *8.5* 6/7 **OWJ-2** *9* 6/7 **OWJ-3** *11.5* 6/8	**OWB-2** *5* 5/7 **OWC-2** *5* 5/7 **OWD-1** *5.5* 6/7 **OWD-2** *7.5* 6/7	**OWE-1** *5* 6/7 **OWE-2** *6* 5/7 **OWJ-1** *5.5* 5/7 **OWJ-2** *6* 5/7	**OWJ-3** *7.5* 6/7	**OWB-2** *4* 5/6 **OWD-1** *4* 5/7 **OWD-2** *5.5* 5/7 **OWE-1** *3.5* 5/6	**OWE-2** *4.5* 5/6 **OWJ-3** *5.5* 5/7		**OWD-1** *3.5* 5/6 **OWD-2** *4.5* 5/6 **OWE-1** *3* 4/5			**OWD-1** *3* 4/6	
III				**OWA-2** *12* 7/9 **OWC-1** *4* 5/7 **OWD-1** *8.5* 6/8 **OWD-2** *11.5* 6/8	**OWD-3** *14* 6/8 **OWE-1** *7* 6/7 **OWE-2** *9* 6/7 **OWJ-1** *8.5* 6/7	**OWJ-2** *9* 6/7 **OWJ-3** *11.5* 6/8	**OWA-1** *7* 7/8 **OWA-2** *8* 6/8 **OWD-2** *7.5* 6/7 **OWD-3** *9* 6/7	**OWE-2** *6* 5/7 **OWJ-1** *5.5* 5/7 **OWJ-2** *6* 5/7 **OWJ-3** *7.5* 6/7		**OWD-2** *5.5* 5/7 **OWD-3** *7* 5/7 **OWE-2** *4.5* 5/6 **OWJ-3** *5.5* 5/7			**OWD-2** *4.5* 5/6 **OWD-3** *5.5* 5/6				
IV				**OWD-2** *11.5* 6/7 **OWE-2** *9* 6/7 **OWF-1** *11.5* 6/7 **OWF-2** *13.5* 8/9 **OWF-3** *15* 8/9	**OWI-1** *10* 6/7 **OWI-2** *13* 6/7 **OWI-3** *16.5* 6/7 **OWJ-1** *8.5* 6/7 **OWJ-2** *9* 6/7	**OWJ-3** *11.5* 6/8 **OWK-1** *13* 6/8	**OWA-2** *8* 6/8 **OWD-1** *5.5* 6/7 **OWD-2** *7.5* 5/7 **OWE-1** *5* 6/7 **OWE-2** *6* 5/7	**OWF-1** *7.5* 5/7 **OWF-2** *9* 7/9 **OWF-3** *10* 7/9 **OWI-1** *6.5* 5/7 **OWI-2** *8.5* 5/7	**OWI-3** *11* 5/7 **OWJ-1** *5.5* 5/7 **OWJ-2** *6* 5/7 **OWJ-3** *7.5* 6/7 **OWK-1** *8.5* 6/7	**OWD-2** *5.5* 5/6 **OWE-2** *4.5* 5/6 **OWF-1** *5.5* 5/6 **OWF-2** *7* 7/8 **OWF-3** *7.5* 7/8	**OWI-1** *5* 5/6 **OWI-2** *6.5* 5/6 **OWI-3** *8* 5/6 **OWJ-1** *4* 5/7 **OWK-1** *6.5* 5/7		**OWF-1** *4.5* 4/6 **OWF-2** *5.5* 6/8 **OWF-3** *6* 6/8 **OWI-1** *4* 4/6 **OWI-2** *5* 4/6	**OWI-3** *6.5* 4/6 **OWK-1** *5* 5/6		**OWF-2** *4.5* 6/7 **OWF-3** *5* 6/7 **OWI-3** *5.5* 4/5 **OWK-1** *4* 4/6	
V		**OWG-1** *11.5* 7/9 **OWG-2** *17* 7/8 **OWH-1** *14* 7/8		**OWF-1** *11.5* 6/7 **OWG-1** *6* 7/8 **OWG-2** *8.5* 6/8 **OWH-1** *7* 6/8 **OWH-2** *11.5* 7/8 **OWI-1** *10* 6/7 **OWK-1** *13* 6/8	**OWK-2** *15* 6/8 **OWL-1** *13* 6/7		**OWD-1** *5.5* 6/7 **OWD-2** *7.5* 5/7 **OWD-3** *9* 6/7 **OWE-1** *5* 6/7 **OWF-1** *7.5* 5/7 **OWF-2** *9* 7/9 **OWF-3** *10* 7/9	**OWG-1** *4* 6/8 **OWG-2** *5.5* 6/7 **OWH-1** *5* 6/7 **OWH-2** *7.5* 6/8 **OWI-1** *6.5* 5/7 **OWI-2** *8.5* 5/7 **OWI-3** *11* 5/7	**OWJ-2** *6* 5/7 **OWJ-3** *7.5* 6/7 **OWK-1** *8.5* 6/7 **OWK-2** *10* 6/7 **OWL-1** *8.5* 5/7	**OWD-2** *5.5* 5/6 **OWD-3** *7* 5/7 **OWF-1** *5.5* 5/6 **OWF-2** *7* 7/8 **OWF-3** *7.5* 7/8 **OWH-1** *3.5* 5/7 **OWH-2** *5.5* 6/7	**OWI-1** *5* 5/6 **OWI-2** *6.5* 5/6 **OWI-3** *8* 5/6 **OWJ-3** *5.5* 5/7 **OWK-1** *6.5* 5/7 **OWK-2** *7.5* 5/7 **OWL-1** *6.5* 5/6		**OWD-3** *5.5* 5/6 **OWF-1** *4.5* 4/6 **OWF-2** *5.5* 6/8 **OWF-3** *6* 6/8 **OWH-2** *4.5* 5/7 **OWI-1** *4* 4/6 **OWI-2** *5* 4/6	**OWI-3** *6.5* 4/6 **OWK-1** *5* 5/6 **OWK-2** *6* 5/6 **OWL-1** *5* 4/6		**OWF-2** *4.5* 6/7 **OWF-3** *5* 6/7 **OWI-3** *5.5* 4/5 **OWK-1** *4* 4/6 **OWK-2** *5* 4/6 **OWL-1** *4* 4/5	
VI				**OWK-2** *15* 6/8 **OWL-1** *13* 6/7 **OWM-1** *15* 6/7 **OWM-2** *17* 5/7			**OWF-1** *7.5* 5/7 **OWF-2** *9* 7/9 **OWF-3** *10* 7/9 **OWI-1** *6.5* 5/7 **OWI-2** *8.5* 5/7	**OWI-3** *11* 5/7 **OWK-1** *8.5* 6/7 **OWK-2** *10* 6/7 **OWL-1** *8.5* 5/7 **OWM-1** *10* 5/7	**OWM-2** *11.5* 5/6	**OWD-1** *4* 5/6 **OWD-3** *7* 5/7 **OWE-1** *3.5* 5/6 **OWF-1** *5.5* 5/6 **OWF-2** *7* 7/8	**OWF-3** *7.5* 7/8 **OWI-1** *5* 5/6 **OWI-2** *6.5* 5/6 **OWI-3** *8* 5/6 **OWK-1** *6.5* 5/7	**OWK-2** *7.5* 5/7 **OWL-1** *6.5* 5/6 **OWM-1** *7.5* 5/6 **OWM-2** *8.5* 4/6	**OWD-3** *5.5* 5/6 **OWF-1** *4.5* 4/6 **OWF-2** *5.5* 6/8 **OWF-3** *6* 6/8 **OWI-1** *4* 4/6	**OWI-2** *5* 4/6 **OWI-3** *6.5* 4/6 **OWK-1** *5* 5/6 **OWK-2** *6* 5/6 **OWL-1** *5* 4/6	**OWM-1** *6* 4/6 **OWM-2** *7* 4/5	**OWF-2** *4.5* 6/7 **OWF-3** *5* 6/7 **OWI-3** *5.5* 4/5 **OWK-1** *4* 4/6 **OWK-2** *5* 4/6	**OWL-1** *4* 4/5 **OWM-1** *5* 4/5 **OWM-2** *6* 3/5
VII				**OWG-1** *6* 7/8 **OWG-2** *8.5* 6/8 **OWH-1** *7* 6/8 **OWM-1** *15* 6/7 **OWM-2** *17* 5/7			**OWF-1** *7.5* 5/7 **OWG-1** *4* 6/8 **OWG-2** *5.5* 6/7 **OWH-1** *5* 6/7 **OWH-2** *7.5* 6/8	**OWI-1** *6.5* 5/7 **OWK-1** *8.5* 6/7 **OWK-2** *10* 6/7 **OWL-1** *8.5* 5/7 **OWM-1** *10* 5/7	**OWM-2** *11.5* 5/6	**OWF-1** *5.5* 5/6 **OWF-2** *7* 7/8 **OWF-3** *7.5* 7/8 **OWH-1** *3.5* 5/7 **OWH-2** *5.5* 6/7	**OWI-1** *5* 5/6 **OWI-2** *6.5* 5/6 **OWI-3** *8* 5/6 **OWK-1** *6.5* 5/7 **OWK-2** *7.5* 5/7	**OWL-1** *6.5* 5/6 **OWM-1** *7.5* 5/6 **OWM-2** *8.5* 4/6	**OWF-1** *4.5* 4/6 **OWF-2** *5.5* 6/8 **OWF-3** *6* 6/8 **OWH-2** *4.5* 5/7 **OWI-1** *4* 4/6	**OWI-2** *5* 4/6 **OWI-3** *6.5* 4/6 **OWK-1** *5* 5/6 **OWK-2** *6* 5/6 **OWL-1** *5* 4/6	**OWM-1** *6* 4/6 **OWM-2** *7* 4/5	**OWF-2** *4.5* 6/7 **OWF-3** *5* 6/7 **OWI-3** *5.5* 4/5 **OWK-1** *4* 4/6 **OWK-2** *5* 4/6	**OWL-1** *4* 4/5 **OWM-1** *5* 4/5 **OWM-2** *6* 3/5

MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

Movement Point Ratios

Ship Class	2/1	3/1		4/1			5/1			6/1		
VIII	**OWH-1** *7* 6/8	**OWG-1** *4* 6/8 **OWG-2** *5.5* 6/7 **OWH-1** *5* 6/7 **OWH-2** *7.5* 6/8 **OWK-2** *10* 6/7	**OWL-1** *8.5* 5/7 **OWM-1** *10* 5/7 **OWM-2** *11.5* 5/6	**OWF-1** *5.5* 5/6 **OWF-2** *7* 7/8 **OWF-3** *7.5* 7/8 **OWH-1** *3.5* 5/7 **OWH-2** *5.5* 6/7	**OWI-1** *5* 5/6 **OWI-2** *6.5* 5/6 **OWI-3** *8* 5/6 **OWK-1** *6.5* 5/7 **OWK-2** *7.5* 5/7	**OWL-1** *6.5* 5/6 **OWM-1** *7.5* 5/6 **OWM-2** *8.5* 4/6	**OWF-1** *4.5* 4/6 **OWF-2** *5.5* 6/8 **OWF-3** *6* 6/8 **OWH-2** *4.5* 5/7 **OWI-1** *4* 4/6	**OWI-2** *5* 4/6 **OWI-3** *6.5* 4/6 **OWK-1** *5* 5/6 **OWK-2** *6* 5/6 **OWL-1** *5* 4/6	**OWM-1** *6* 4/6 **OWM-2** *7* 4/5	**OWF-2** *4.5* 6/7 **OWF-3** *5* 6/7 **OWI-3** *5.5* 4/5 **OWK-1** *4* 4/6 **OWK-2** *5* 4/6	**OWL-1** *4* 4/5 **OWM-1** *5* 4/5 **OWM-2** *6* 3/5	
IX	**OWH-1** *7* 6/8	**OWG-1** *4* 6/8 **OWG-2** *5.5* 6/7 **OWH-1** *5* 6/7	**OWH-2** *7.5* 6/8 **OWM-1** *10* 5/7 **OWM-2** *11.5* 5/6	**OWF-1** *5.5* 5/6 **OWH-1** *3.5* 5/7 **OWH-2** *5.5* 6/7	**OWK-1** *6.5* 5/7 **OWK-2** *7.5* 5/7 **OWL-1** *6.5* 5/6	**OWM-1** *7.5* 5/6 **OWM-2** *8.5* 4/6	**OWF-1** *4.5* 4/6 **OWF-2** *5.5* 6/8 **OWF-3** *6* 6/8	**OWH-2** *4.5* 5/7 **OWK-1** *5* 5/6 **OWK-2** *6* 5/6	**OWL-1** *5* 4/6 **OWM-1** *6* 4/6 **OWM-2** *7* 4/5	**OWF-2** *4.5* 6/7 **OWF-3** *5* 6/7 **OWK-1** *4* 4/6	**OWK-2** *5* 4/6 **OWL-1** *4* 4/5 **OWM-1** *5* 4/5	**OWM-2** *6* 3/5
X		**OWG-1** *4* 6/8 **OWG-2** *5.5* 6/7	**OWH-1** *5* 6/7 **OWH-2** *7.5* 6/8	**OWH-1** *3.5* 5/7 **OWH-2** *5.5* 6/7	**OWK-2** *7.5* 5/7 **OWL-1** *6.5* 5/6	**OWM-1** *7.5* 5/6 **OWM-2** *8.5* 4/6	**OWH-2** *4.5* 5/7 **OWK-2** *6* 5/6	**OWL-1** *5* 4/6 **OWM-1** *6* 4/6	**OWM-2** *7* 4/5	**OWK-2** *5* 4/6 **OWL-1** *4* 4/5	**OWM-1** *5* 4/5 **OWM-2** *6* 3/5	
XI		**OWG-1** *4* 6/8 **OWG-2** *5.5* 6/7	**OWH-1** *5* 6/7 **OWH-2** *7.5* 6/8	**OWH-1** *3.5* 5/7 **OWH-2** *5.5* 6/7	**OWM-1** *7.5* 5/6 **OWM-2** *8.5* 4/6		**OWH-2** *4.5* 5/7 **OWK-2** *6* 5/6	**OWL-1** *5* 4/6 **OWM-1** *6* 4/6	**OWM-2** *7* 4/5	**OWK-2** *5* 4/6 **OWL-1** *4* 4/5	**OWM-1** *5* 4/5 **OWM-2** *6* 3/5	
XII				**OWH-1** *3.5* 5/7 **OWH-2** *5.5* 6/7			**OWH-2** *4.5* 5/7 **OWL-1** *5* 4/6	**OWM-1** *6* 4/6 **OWM-2** *7* 4/5		**OWL-1** *4* 4/5 **OWM-1** *5* 4/5	**OWM-2** *6* 3/5	
XIII				**OWH-1** *3.5* 5/7	**OWH-2** *5.5* 6/7		**OWH-2** *4.5* 5/7	**OWM-1** *6* 4/6	**OWM-2** *7* 4/5	**OWM-1** *5* 4/5	**OWM-2** *6* 3/5	
XIV							**OWM-2** *7* 4/5			**OWM-2** *6* 3/5		

MOVEMENT POINT RATIO TABLE: TANDEM WARP ENGINE

Ship Class	Movement Point Ratios														
	1/1	2/1			3/1			4/1			5/1			6/1	
II	**OWC-1** *17* 7/8	**OWB-1** *13* 6/9	**OWC-1** *8.5* 6/8	**OWC-2** *14* 7/8	**OWB-1** *8.5* 6/8	**OWC-1** *5.5* 5/7	**OWC-2** *9* 6/8	**OWB-1** *6.5* 6/7	**OWC-2** *7* 6/7		**OWB-1** *5* 5/7	**OWC-2** *5.5* 5/7			
III	**OWA-2** *48.5* 8/10	**OWA-1** *21.5* 8/10 **OWA-2** *24* 7/9 **OWB-1** *13* 6/9	**OWB-2** *15.5* 6/8 **OWC-1** *8.5* 6/8 **OWJ-1** *17* 6/8	**OWJ-2** *18.5* 6/8	**OWA-1** *14* 7/9 **OWA-2** *16* 7/8 **OWB-1** *8.5* 6/8	**OWB-2** *10* 6/7 **OWC-1** *5.5* 5/7 **OWC-2** *9* 6/8	**OWJ-1** *11.5* 6/7 **OWJ-2** *12.5* 6/7	**OWA-1** *11* 7/9 **OWA-2** *12* 6/7 **OWB-1** *6.5* 6/7	**OWB-2** *8* 5/7 **OWC-2** *7* 6/7 **OWJ-1** *8.5* 5/7	**OWJ-2** *9* 5/7	**OWA-1** *8.5* 6/8 **OWB-1** *5* 5/7 **OWB-2** *6* 5/6	**OWC-2** *5.5* 5/7			
IV		**OWA-2** *24* 7/9 **OWB-2** *15.5* 6/8 **OWD-1** *17* 6/8	**OWJ-1** *17* 6/8 **OWJ-2** *18.5* 6/8		**OWA-1** *14* 7/9 **OWA-2** *16* 7/8 **OWB-1** *8.5* 6/8	**OWB-2** *10* 6/7 **OWC-1** *5.5* 5/7 **OWD-1** *11.5* 6/7	**OWJ-1** *11.5* 6/7 **OWJ-2** *12.5* 6/7 **OWJ-3** *15* 6/8	**OWA-1** *11* 7/9 **OWA-2** *12* 6/7 **OWB-1** *6.5* 6/7	**OWB-2** *8* 5/7 **OWC-2** *4* 6/7 **OWD-1** *8.5* 5/7	**OWJ-1** *8.5* 5/7 **OWJ-2** *9* 5/7 **OWJ-3** *11.5* 6/7	**OWA-1** *8.5* 6/8 **OWB-1** *5* 5/7 **OWB-2** *6* 5/6	**OWC-2** *3.5* 5/7 **OWD-1** *7* 5/6 **OWJ-3** *9* 5/7		**OWJ-3** *7.5* 5/6	
V		**OWA-2** *24* 7/9 **OWE-1** *14* 7/8 **OWI-1** *20* 6/7			**OWA-2** *16* 7/8 **OWB-2** *10* 6/7 **OWD-1** *11.5* 6/7 **OWD-2** *15* 6/8 **OWD-3** *19* 6/8	**OWE-1** *9* 6/7 **OWI-1** *13.5* 5/7 **OWI-2** *17* 6/7 **OWI-3** *21.5* 6/7 **OWJ-1** *11.5* 6/7	**OWJ-2** *12.5* 6/7 **OWJ-3** *15* 6/8	**OWA-1** *11* 7/9 **OWA-2** *12* 6/7 **OWB-1** *6.5* 6/7 **OWB-2** *8* 5/7 **OWD-1** *8.5* 5/7	**OWD-2** *11.5* 6/7 **OWD-3** *14* 6/7 **OWE-1** *7* 5/6 **OWI-1** *10* 5/6 **OWI-2** *13* 5/7	**OWI-3** *16.5* 5/7 **OWJ-1** *8.5* 5/7 **OWJ-2** *9* 5/7 **OWJ-3** *11.5* 6/7	**OWA-1** *8.5* 6/8 **OWB-1** *5* 5/7 **OWB-2** *6* 5/6 **OWD-1** *7* 5/6 **OWD-2** *9* 5/7	**OWD-3** *11.5* 5/7 **OWI-2** *10* 5/6 **OWI-3** *13* 5/6 **OWJ-3** *9* 5/7		**OWD-2** *7.5* 5/6 **OWD-3** *9.5* 5/6 **OWJ-3** *7.5* 5/6	
VI		**OWE-2** *18.5* 7/8 **OWI-1** *20* 6/7			**OWA-2** *16* 7/8 **OWD-1** *11.5* 6/7 **OWD-2** *15* 6/8 **OWD-3** *19* 6/8 **OWE-1** *9* 6/7 **OWE-2** *12.5* 6/7	**OWF-1** *15* 6/7 **OWF-2** *18* 8/9 **OWI-1** *13.5* 5/7 **OWI-2** *17* 6/7 **OWI-3** *21.5* 6/7 **OWJ-1** *11.5* 6/7	**OWJ-2** *12.5* 6/7 **OWK-1** *17* 6/8	**OWA-2** *12* 6/7 **OWB-2** *8* 5/7 **OWD-1** *8.5* 5/7 **OWD-2** *11.5* 6/7 **OWD-3** *14* 6/7 **OWE-1** *7* 5/6	**OWE-2** *9* 5/7 **OWF-1** *11.5* 5/7 **OWF-2** *13.5* 7/9 **OWF-3** *15* 8/9 **OWI-1** *10* 5/6 **OWI-2** *13* 5/7	**OWI-3** *16.5* 5/7 **OWJ-1** *8.5* 5/7 **OWJ-2** *9* 5/7 **OWJ-3** *11.5* 6/7 **OWK-1** *13* 6/7	**OWB-2** *6* 5/6 **OWD-1** *7* 5/6 **OWD-2** *9* 5/7 **OWD-3** *11.5* 5/7 **OWE-2** *7.5* 5/6 **OWF-1** *9* 5/6	**OWF-2** *11* 7/8 **OWF-3** *12* 7/9 **OWI-2** *10* 5/6 **OWI-3** *13* 5/6 **OWJ-3** *9* 5/7 **OWK-1** *10* 5/7		**OWD-2** *7.5* 5/6 **OWD-3** *9.5* 5/6 **OWF-3** *10* 7/8 **OWJ-3** *7.5* 5/6 **OWK-1** *8.5* 5/6	
VII	**OWG-1** *23* 8/9	**OWG-1** *11.5* 7/9 **OWG-2** *17* 7/8			**OWD-1** *11.5* 6/7 **OWE-1** *9* 6/7 **OWE-2** *12.5* 6/7 **OWF-1** *15* 6/7 **OWG-1** *7.5* 7/8 **OWG-2** *11.5* 6/8	**OWI-1** *13.5* 5/7 **OWI-2** *17* 6/7 **OWI-3** *21.5* 6/7 **OWK-1** *17* 6/8 **OWK-2** *20* 6/8 **OWK-2** *20* 6/8		**OWD-1** *8.5* 5/7 **OWD-2** *11.5* 6/7 **OWD-3** *14* 6/7 **OWE-1** *7* 5/6 **OWE-2** *9* 5/7 **OWF-1** *11.5* 5/7	**OWF-2** *13.5* 7/9 **OWF-3** *15* 8/9 **OWG-1** *5.5* 6/8 **OWG-2** *8.5* 6/7 **OWI-1** *10* 5/6 **OWI-2** *13* 5/7	**OWI-3** *16.5* 5/7 **OWJ-2** *9* 5/7 **OWK-1** *13* 6/7 **OWK-2** *15* 6/7 **OWK-2** *15* 6/7	**OWD-1** *7* 5/6 **OWD-2** *9* 5/7 **OWD-3** *11.5* 5/7 **OWE-2** *7.5* 5/6 **OWF-1** *9* 5/6 **OWF-2** *11* 7/8	**OWF-3** *12* 7/9 **OWG-2** *7* 5/7 **OWI-2** *10* 5/6 **OWI-3** *13* 5/6 **OWJ-3** *7.5* 5/7 **OWK-1** *10* 5/7	**OWK-2** *12* 5/7 **OWK-2** *12* 5/7	**OWD-2** *7.5* 5/6 **OWD-3** *9.5* 5/6 **OWF-3** *10* 7/8 **OWJ-3** *6* 5/6 **OWK-1** *8.5* 5/6 **OWK-2** *10* 5/6	**OWK-2** *10* 5/6
VIII		**OWG-1** *11.5* 7/9 **OWH-1** *14* 7/8 **OWL-1** *26* 6/7			**OWD-1** *11.5* 6/7 **OWE-2** *12.5* 6/7 **OWF-1** *15* 6/7 **OWG-1** *7.5* 7/8 **OWG-2** *11.5* 6/8 **OWH-1** *9* 6/8	**OWH-2** *15* 7/8 **OWI-1** *13.5* 5/7 **OWI-2** *17* 6/7 **OWI-3** *21.5* 6/7 **OWK-1** *17* 6/8 **OWK-2** *20* 6/8	**OWK-2** *20* 6/8 **OWL-1** *17* 5/7	**OWD-1** *8.5* 5/7 **OWD-2** *11.5* 6/7 **OWD-3** *14* 6/7 **OWE-1** *7* 5/6 **OWE-2** *9* 5/7 **OWF-1** *11.5* 5/7	**OWF-2** *13.5* 7/9 **OWG-1** *5.5* 6/8 **OWG-2** *8.5* 6/7 **OWH-1** *7* 6/7 **OWH-2** *11.5* 6/8 **OWI-1** *10* 5/6	**OWI-2** *13* 5/7 **OWI-3** *16.5* 5/7 **OWK-1** *13* 6/7 **OWK-2** *15* 6/7 **OWK-2** *15* 6/7 **OWL-1** *13* 5/6	**OWD-1** *7* 5/6 **OWD-2** *9* 5/7 **OWD-3** *11.5* 5/7 **OWE-2** *5.5* 5/6 **OWF-1** *9* 5/6 **OWF-2** *11* 7/8	**OWF-3** *12* 7/9 **OWG-2** *7* 5/7 **OWH-1** *5.5* 5/7 **OWH-2** *9* 6/7 **OWI-2** *10* 5/6 **OWI-3** *13* 5/6	**OWJ-3** *9* 5/7 **OWK-1** *10* 5/7 **OWK-2** *12* 5/7 **OWK-2** *12* 5/7 **OWL-1** *10* 4/6	**OWD-2** *7.5* 5/6 **OWD-3** *9.5* 5/6 **OWF-3** *10* 7/8 **OWJ-3** *7.5* 5/6 **OWK-1** *8.5* 5/6 **OWK-2** *10* 5/6	**OWK-2** *10* 5/6

MOVEMENT POINT RATIO TABLE: TANDEM WARP ENGINE

Ship Class	Movement Point Ratios										
	2/1	3/1		4/1			5/1			6/1	
IX	**OWG-1** *11.5* 7/9 **OWH-1** *14* 7/8 **OWL-1** *26* 6/7	**OWD-1** *11.5* 6/7 **OWG-1** *7.5* 7/8 **OWG-2** *11.5* 6/8 **OWH-1** *9* 6/8 **OWH-2** *15* 7/8 **OWI-1** *13.5* 5/7	**OWI-2** *17* 6/7 **OWI-3** *21.5* 6/7 **OWK-2** *20* 6/8 **OWL-1** *17* 5/7 **OWM-1** *20* 6/7	**OWD-1** *8.5* 5/7 **OWD-2** *11.5* 6/7 **OWD-3** *14* 6/7 **OWE-2** *9* 5/7 **OWF-1** *11.5* 5/7 **OWF-2** *13.5* 7/9	**OWG-1** *5.5* 6/8 **OWG-2** *8.5* 6/7 **OWH-1** *7* 6/7 **OWH-2** *11.5* 6/8 **OWI-1** *10* 5/6 **OWI-2** *13* 5/7	**OWI-3** *16.5* 5/7 **OWK-1** *13* 6/7 **OWK-2** *15* 6/7 **OWL-1** *13* 5/6 **OWM-1** *15* 5/7	**OWD-1** *7* 5/6 **OWD-2** *9* 5/7 **OWD-3** *11.5* 5/7 **OWE-2** *7.5* 5/6 **OWF-1** *9* 5/6 **OWF-2** *11* 7/8	**OWF-3** *12* 7/9 **OWG-2** *7* 5/7 **OWH-1** *5.5* 5/7 **OWH-2** *9* 6/7 **OWI-2** *10* 5/6 **OWI-3** *13* 5/6	**OWK-1** *10* 5/7 **OWK-2** *12* 5/7 **OWL-1** *10* 4/6 **OWM-1** *12* 5/6	**OWD-2** *7.5* 5/6 **OWD-3** *9.5* 5/6 **OWF-3** *10* 7/8 **OWK-1** *8.5* 5/6 **OWK-2** *10* 5/6 **OWM-1** *10* 4/6	
X		**OWG-1** *7.5* 7/8 **OWG-2** *11.5* 6/8 **OWL-1** *17* 5/7 **OWM-1** *20* 6/7		**OWD-1** *8.5* 5/7 **OWD-3** *14* 6/7 **OWE-2** *9* 5/7 **OWF-1** *11.5* 5/7 **OWF-2** *13.5* 7/9	**OWG-1** *5.5* 6/8 **OWG-2** *8.5* 6/7 **OWI-1** *10* 5/6 **OWI-2** *13* 5/7 **OWI-3** *16.5* 5/7	**OWK-1** *13* 6/7 **OWK-2** *15* 6/7 **OWL-1** *13* 5/6 **OWM-1** *15* 5/7 **OWM-2** *17* 5/7	**OWD-1** *7* 5/6 **OWD-2** *9* 5/7 **OWD-3** *11.5* 5/7 **OWE-2** *7.5* 5/6 **OWF-1** *9* 5/6	**OWF-2** *11* 7/8 **OWF-3** *12* 7/9 **OWG-2** *7* 5/7 **OWI-2** *8* 5/6 **OWI-3** *10* 5/6	**OWK-1** *10* 5/7 **OWK-2** *12* 5/7 **OWL-1** *10* 4/6 **OWM-1** *12* 5/6 **OWM-2** *14* 5/6	**OWD-2** *7.5* 5/6 **OWD-3** *9.5* 5/6 **OWF-3** *10* 7/8 **OWK-1** *8.5* 5/6 **OWK-2** *10* 5/6	**OWM-1** *10* 4/6 **OWM-2** *11.5* 4/6
XI		**OWG-1** *7.5* 7/8 **OWH-1** *9* 6/8 **OWH-2** *15* 7/8 **OWL-1** *17* 5/7 **OWM-1** *20* 6/7		**OWD-3** *14* 6/7 **OWF-1** *11.5* 5/7 **OWG-1** *5.5* 6/8 **OWG-2** *8.5* 6/7 **OWH-1** *7* 6/7	**OWH-2** *11.5* 6/8 **OWI-1** *10* 5/6 **OWI-2** *13* 5/7 **OWI-3** *16.5* 5/7 **OWK-1** *13* 6/7	**OWK-2** *15* 6/7 **OWL-1** *13* 5/6 **OWM-1** *15* 5/7 **OWM-2** *17* 5/7	**OWD-2** *9* 5/7 **OWD-3** *11.5* 5/7 **OWF-1** *9* 5/6 **OWF-2** *11* 7/8 **OWF-3** *12* 7/9	**OWG-2** *7* 5/7 **OWH-1** *5.5* 5/7 **OWH-2** *9* 6/7 **OWI-2** *10* 5/6 **OWI-3** *13* 5/6	**OWK-1** *10* 5/7 **OWK-2** *12* 5/7 **OWL-1** *10* 4/6 **OWM-1** *12* 5/6 **OWM-2** *14* 5/6	**OWD-2** *7.5* 5/6 **OWD-3** *9.5* 5/6 **OWF-3** *10* 7/8 **OWK-1** *8.5* 5/6 **OWK-2** *10* 5/6	**OWM-1** *8.5* 4/6 **OWM-2** *11.5* 4/6
XII				**OWG-1** *5.5* 6/8 **OWI-1** *10* 5/6			**OWD-3** *11.5* 5/7 **OWF-1** *9* 5/6 **OWF-2** *11* 7/8 **OWG-2** *7* 5/7 **OWH-1** *5.5* 5/7	**OWH-2** *9* 6/7 **OWI-2** *10* 5/6 **OWI-3** *13* 5/6 **OWK-1** *10* 5/7 **OWK-2** *12* 5/7	**OWL-1** *10* 4/6 **OWM-1** *12* 5/6 **OWM-2** *14* 5/6	**OWD-3** *9.5* 5/6 **OWF-3** *10* 7/8 **OWK-1** *8.5* 5/6 **OWK-2** *10* 5/6 **OWM-1** *10* 4/6	**OWM-2** *11.5* 4/6
XIII				**OWI-1** *10* 5/6			**OWF-1** *9* 5/6 **OWF-2** *11* 7/8 **OWG-2** *7* 5/7 **OWH-1** *5.5* 5/7	**OWH-2** *9* 6/7 **OWI-2** *10* 5/6 **OWI-3** *13* 5/6 **OWK-1** *10* 5/7	**OWK-2** *12* 5/7 **OWL-1** *10* 4/6 **OWM-1** *12* 5/6 **OWM-2** *14* 5/6	**OWK-1** *8.5* 5/6 **OWK-2** *10* 5/6 **OWM-1** *10* 4/6 **OWM-2** *11.5* 4/6	
XIV							**OWF-2** *11* 7/8 **OWG-2** *7* 5/7 **OWH-1** *5.5* 5/7	**OWH-2** *9* 6/7 **OWK-1** *10* 5/7 **OWL-1** *10* 4/6	**OWM-1** *12* 5/6 **OWM-2** *14* 5/6	**OWF-3** *10* 7/8 **OWK-1** *8.5* 5/6 **OWK-2** *10* 5/6	**OWM-1** *10* 4/6 **OWM-2** *11.5* 4/6
XV							**OWG-2** *7* 5/7 **OWH-1** *5.5* 5/7	**OWH-2** *9* 6/7 **OWL-1** *10* 4/6		**OWK-2** *10* 5/6 **OWM-1** *10* 4/6	**OWM-2** *11.5* 4/6
XVI							**OWG-2** *7* 5/7 **OWH-1** *5.5* 5/7	**OWH-2** *9* 6/7 **OWL-1** *10* 4/6		**OWM-1** *10* 4/6 **OWM-2** *11.5* 4/6	
XVII							**OWH-1** *5.5* 5/7	**OWH-2** *9* 6/7		**OWM-1** *10* 4/6	**OWM-2** *11.5* 4/6

IMPULSE ENGINE TYPES

Impulse Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Ship Classes Powered	SS Requirememnt	Availability	Cost (MCr)	Year
OIA-1	23	1	Mark I	I-I	0.1	RRR/75	10	2199
OIA-2	23	2	Mark II	I - II	0.1	RRR/70	19	2216
OIA-3	23	3	Mark II	I - II	0.1	RRR/68	28	2227
OIA-4	23	4	Mark II	III - IV	0.1	RRR/64	31	2243
OIB-1	75	1	Mark I	III - IV	0.1	RRR/70	12	2200
OIB-2	75	2	Mark II	IV- V	0.1	RRR/65	22	2217
OIB-3	75	3	Mark II	IV - VI	0.1	RRR/60	33	2235
OIC-1	200	2	Mark II	V-V	0.1	RRR/63	26	2216
OIC-2	200	4	Mark II	V - VII	0.1	RRR/58	32	2220
OIC-3	200	6	Mark III	VIII-X	0.1	RRR/52	45	2233
OID-1	120	5	Mark III	IV- XI	0.1	RRR/60	38	2231
OID-2	120	7	Mark IV	VI - XII	0.1	RRR/51	53	2266
OID-3	120	10	Mark IV	V - VIII	0.1	RRR/43	76	2267
OIE-1	525	6	Mark III	V-X	0.1	RRR/57	46	2232
OIE-2	525	8	Mark IV	VII - XIV	0.1	RRR/52	72	2267
OIF-1	790	9	Mark V	VII - XV	0.1	RRR/55	81	2270
OIF-2	790	13	Mark VI	VIII - XIII	0.1	RRR/49	118	2272
OIG-1	220	6	Mark I	V-IX	0.1	RRR/63	49	2270
OIG-2	280	6	Mark III	VII-XII	0.1	RRR/58	46	2273
OIG-3	390	4	Mark IV	VI - VIII	0.1	RRR/61	35	2274
OIH-1	365	2	Mark III	V - X	0.1	RRR/72	28	2271
OIH-2	630	4	Mark III	V - X	0.1	RRR/69	37	2271
OIH-3	800	6	Mk III	V-VII	0.1	RRR/56	51	2272
OIH-4	950	18	Mark V	VI - VIII	0.1	RRR/33	179	2272
OII-1	900	10	Mark V	V- XIV	0.1	RRR/28	87	2272
OII-2	900	15	Mark VI	VII - XV	0.1	RRR/20	149	2273
OII-3	900	20	Mark VII	X - XV	0.1	RRR/17	198	2280

ORION COLONIES

MOVEMENT POINT RATIO TABLE: IMPULSE ENGINE

Movement Point Ratios

Ship Class	1/2		1/1		2/1			3/1			4/1			5/1			6/1	
I	OIA-1 3 OIA-2 5.5	OIB-1 3	OIA-1 1.5 OIA-2 3	OIB-1 1.5	OIA-1 1 OIA-2 1.5	OIA-3 2 OIB-1 1												
II			OIA-2 3	OIB-1 1.5	OIA-2 1.5	OIA-3 2	OIB-1 1											
III			OIB-1 1.5	OIA-4 5.5	OIB-1 1	OIA-4 3		OIB-1 1	OIA-4 2		OIA-4 1.5			OIA-4 1			OIA-4 1	
IV			OID-1 7		OIB-1 1 OIB-2 1.5	OIB-3 2 OIA-4 3	OID-1 3.5	OIB-1 1 OIB-2 1	OIB-3 1.5 OIA-4 2	OID-1 2.5	OIB-2 0.5 OIA-4 1.5			OIA-4 1			OIA-4 1	
V			OID-1 7 OIE-1 8.5 OIG-1 8.5 OIH-1 3	OIH-2 5.5 OIH-3 8.5 OII-1 14	OIB-2 1.5 OIB-3 2 OIC-1 1.5 OIC-2 3	OID-1 3.5 OID-3 7 OIE-1 4 OIG-1 4	OIH-1 1.5 OIH-2 3 OIH-3 4 OII-1 7	OIB-2 1 OIB-3 1.5 OIC-1 1 OIC-2 2	OID-1 2.5 OID-3 5 OIE-1 3 OIG-1 3	OIH-1 1 OIH-2 2 OIH-3 3 OII-1 5	OIB-2 0.5 OIB-3 1 OIC-2 1.5 OID-3 3.5	OIH-1 0.5 OIH-2 1.5 OII-1 3.5		OIH-2 1 OII-1 3			OII-1 2	
VI			OIE-1 8.5 OIG-1 8.5 OIG-3 5.5 OIH-1 3 OIH-2 5.5	OII-1 14	OIB-3 2 OIC-2 3 OID-1 3.5 OID-2 5 OID-3 7	OIE-1 4 OIG-1 4 OIG-3 3 OIH-1 1.5 OIH-2 3	OIH-3 4 OIH-4 13 OII-1 7	OIB-3 1.5 OIC-2 2 OID-1 2.5 OID-2 3.5 OID-3 5	OIE-1 3 OIG-1 3 OIG-3 2 OIH-1 1 OIH-2 2	OIH-3 3 OIH-4 8.5 OII-1 5	OIB-3 1 OIC-2 1.5 OID-1 2 OID-2 2.5 OID-3 3.5	OIE-1 2 OIG-1 2 OIG-3 1.5 OIH-4 6.5 OII-1 3.5		OID-1 1.5 OID-2 2 OID-3 3 OIG-1 1.5 OII-1 3			OID-2 1.5 OII-1 2	
VII			OID-1 7 OIE-1 8.5 OIE-2 11.5 OIG-1 8.5 OIG-3 5.5 OIH-1 3	OII-1 14 OII-2 21.5	OID-1 3.5 OID-2 5 OID-3 7 OIE-1 4 OIE-2 6 OIF-1 6.5	OIG-1 4 OIG-2 4 OIG-3 3 OIH-1 1.5 OIH-2 3 OIH-3 4	OIH-4 13 OII-1 7 OII-2 11	OIC-2 2 OID-1 2.5 OID-2 3.5 OID-3 5 OIE-1 3 OIE-2 4	OIF-1 4.5 OIG-1 3 OIG-2 3 OIG-3 2 OIH-1 1 OIH-2 2	OIH-3 3 OIH-4 8.5 OII-1 5 OII-2 7	OIC-2 1.5 OID-1 2 OID-2 2.5 OID-3 3.5 OIE-1 2 OIF-1 3	OIG-1 2 OIG-2 2 OIG-3 1.5 OIH-2 1.5 OIH-4 6.5 OII-1 3.5		OID-1 1.5 OID-2 2 OID-3 3 OIG-1 1.5 OIG-2 1.5 OIH-4 5	OII-1 3		OID-1 1 OID-2 1.5 OII-1 2	
VIII					OID-1 3.5 OID-2 5 OIE-1 4 OIE-2 6 OIF-1 6.5 OIF-2 9	OIG-1 4 OIG-2 4 OIG-3 3 OIH-1 1.5 OIH-2 3 OII-1 7	OII-2 11	OIC-3 3 OID-1 2.5 OID-2 3.5 OID-3 5 OIE-1 3 OIE-2 4	OIF-1 4.5 OIF-2 6 OIG-1 3 OIG-2 3 OIG-3 2 OIH-1 1	OIH-2 2 OIH-3 3 OII-1 5 OII-2 7	OIC-3 2 OID-1 2 OID-2 2.5 OID-3 3.5 OIE-1 2 OIE-2 3	OIF-1 3 OIF-2 4.5 OIG-1 2 OIG-2 2 OIG-3 1.5 OIH-1 0.5	OIH-2 1.5 OIH-4 6.5 OII-1 3.5 OII-2 5	OID-3 3 OIH-4 5 OII-1 3 OII-2 4			OIH-4 4 OII-1 2 OII-2 3.5	
IX					OID-1 3.5 OIE-1 4 OIE-2 6 OIG-1 4 OIG-2 4	OIH-1 1.5 OII-1 7 OII-2 11		OIC-3 3 OID-1 2.5 OID-2 3.5 OIE-1 3 OIE-2 4	OIF-1 4.5 OIF-2 6 OIG-1 3 OIG-2 3 OIH-1 1	OIH-2 2 OII-1 5 OII-2 7	OIC-3 2 OID-1 2 OID-2 2.5 OIE-1 2 OIE-2 3	OIF-1 3 OIF-2 4.5 OIG-1 2 OIG-2 2 OIH-1 0.5	OIH-2 1.5 OII-1 3.5 OII-2 5	OID-1 1.5 OID-2 2 OIE-1 1.5 OIF-1 2.5 OIF-2 4	OIG-1 1.5 OIG-2 1.5 OIH-2 1 OII-1 3 OII-2 4		OID-1 1 OID-2 1.5 OII-1 2 OII-2 3.5	
X								OID-1 2.5 OID-2 3.5 OIE-2 4 OIF-1 4.5	OIG-2 3 OIH-1 1 OII-2 7 OII-3 9		OIC-3 2 OID-1 2 OID-2 2.5 OIE-1 2	OIE-2 3 OIF-1 3 OIF-2 4.5 OIG-2 2	OIH-1 0.5 OIH-2 1.5 OII-2 5 OII-3 7	OID-1 1.5 OID-2 2 OIE-1 1.5 OIF-1 2.5	OIF-2 4 OIG-2 1.5 OIH-1 0.5 OIH-2 1	OII-2 4	OID-1 1 OID-2 1.5 OIE-1 1.5 OIF-2 3	OIH-2 1 OII-2 3.5
XI								OID-1 2.5 OID-2 3.5 OIE-2 4	OIG-2 3 OII-1 5 OII-2 7	OII-3 9	OID-1 2 OID-2 2.5 OIE-2 3	OIF-1 3 OIF-2 4.5 OIG-2 2	OII-1 3.5 OII-2 5 OII-3 7	OID-1 1.5 OID-2 2 OIF-1 2.5	OIF-2 4 OIG-2 1.5 OII-1 3	OII-2 4	OID-1 1 OID-2 1.5 OIF-1 2	OIF-2 3 OII-1 2 OII-2 3.5
XII											OID-2 2.5 OIE-2 3 OIF-1 3	OIG-2 2 OII-1 3.5 OII-2 5	OII-3 7	OID-2 2 OIE-2 2 OIF-1 2.5	OIF-2 4 OIG-2 1.5 OII-1 3	OII-2 4 OII-3 5.5	OID-2 1.5 OIF-1 2 OIF-2 3	OII-1 2 OII-2 3.5
XIII											OIE-2 3 OIF-1 3	OII-1 3.5 OII-2 5	OII-3 7	OIE-2 2 OIF-1 2.5	OIF-2 4 OII-1 3	OII-2 4 OII-3 5.5	OIF-1 2 OIF-2 3	OII-1 2 OII-2 3.5
XIV														OIE-2 2 OIF-1 2.5	OII-1 3 OII-2 4		OIE-2 2 OIF-1 2	OII-1 2 OII-2 3.5
XV														OII-2 4	OII-3 5.5		OII-2 3.5	OII-3 5
XVI														OII-2 4	OII-3 5.5		OII-2 3.5	OII-3 5
XVII														OII-2 4			OII-2 3.5	OII-3 5

SHIELD GENERATOR TYPES

Shield Generator Type	Total Mass (mt)	Control Computer Requirement	Shield Efficiency Rating	SS Requirememnt	Availability	Cost (MCr)	Year
OSA	60	Mark I	1	0.2	LRL/60	1	2199
OSB	85	Mark I	2	0.5	LRL/55	2	2202
OSC	125	Mark II	3	1	LRL/47	8	2229
OSD	100	Mark I	1	0.2	LRL/59	2	2230
OSE	140	Mark I	2	0.6	LRL/54	3	2231
OSF	205	Mark III	3	1.8	LRL/46	10	2231
OSG	185	Mark I	1	0.4	LRL/58	3	2233
OSH	255	Mark II	2	1	LRL/53	4	2240
OSI	365	Mark III	3	2	LRL/45	15	2247
OSJ	480	Mark IV	4	2.5	LRL/44	25	2253
OSK	210	Mark I	1	0.9	LRL/48	4	2261
OSL	290	Mark II	2	1.3	LRL/57	7	2263
OSM	465	Mark IV	3	1.9	LRL/46	15	2268
OSN	330	Mark III	1	1.8	LLL/72	4	2268
OSP	340	Mark Iia	2	0.7	LRL/55	8	2269
OSQ	760	Mark V	3	4.2	LRL/42	17	2270
OSR	620	Mark V	4	3.4	LRL/37	20	2270
OSS	460	Mark V	1	3	LLL/68	5	2271
OST	340	Mark IV	2	3	LRL/54	9	2271
OSU	425	Mark IV	2	2.4	LRL/55	10	2272
OSV	430	Mark V	2	3.5	LRL/51	12	2273
OSW	460	Mark IIa	1	3.7	LLL/65	6	2273
OSX	780	Mark VI	2	4.3	LRL/55	14	2274
OSY	900	Mark VIII	2	4.9	LRL/52	16	2274
OSZ	1,080	Mark VII	2	5.6	LRL/53	17	2275
OSNA	175	Mark I	1	0.3	LLL/37	4	2259
OSNB	265	Mark IV	2	1.2	LRL/29	11	2261
OSNC	260	Mark Iia	1	0.7	LLL/36	5	2263
OSND	350	Mark V	2	1.5	LRL/27	11	2267
OSNE	300	Mark IV	1	0.8	LLL/34	6	2270
OSNF	375	Mark III	1	1.3	LLL/31	7	2267
OSNG	175	Mark IIa	2	1	LRL/25	11	2269
OSNH	575	Mark VI	3	1.1	RRR/18	18	2271
OSNI	1,250	Mark VI	2	4.1	LRL/20	13	2273

MAXIMUM SHIELD POWER
Shield Types/Shield Point Ratios

Ship Class	1/1 OSA	OSD	OSG	OSK	OSN	OSS	OSW	OSNA	OSNC	OSNE	OSNF	1/2 OSB	OSE	OSH	OSL	OSP	OST	OSU	OSV	OSX	OSY	OSZ	OSNB	OSND	OSNG	OSNI
I	4 *5.5*	6 *8.5*	8 *11.5*	10 *14*	11 *15.5*	13 *18.5*	15 *21*	10 *14*	12 *17*	15 *21*	16 *23*	7 *5*	8 *5.5*	8 *5.5*	9 *6.5*	11 *8*	12 *8.5*	13 *9*	15 *10.5*	18 *13*	20 *14*	20 *14*	14 *10*	15 *10.5*	14 *10*	16 *11.5*
II	4 *5.5*	5 *7*	6 *8.5*	9 *13*	10 *14*	13 *18.5*	14 *20*	10 *14*	12 *17*	15 *21*	16 *23*	6 *4*	7 *5*	8 *5.5*	8 *5.5*	10 *7*	11 *8*	12 *8.5*	14 *10*	17 *12*	19 *13.5*	20 *14*	13 *9*	15 *10.5*	11 *8*	16 *11.5*
III	3 *4*	4 *5.5*	5 *7*	8 *11.5*	9 *13*	12 *17*	13 *18.5*	8 *11.5*	11 *15.5*	14 *20*	16 *23*	5 *3.5*	6 *4*	7 *5*	8 *5.5*	9 *6.5*	10 *7*	11 *8*	13 *9*	16 *11.5*	18 *13*	20 *14*	12 *8.5*	14 *10*	9 *6.5*	16 *11.5*
IV	2 *3*	3 *4*	4 *5.5*	7 *10*	9 *13*	11 *15.5*	12 *17*	8 *11.5*	11 *15.5*	14 *20*	16 *23*	3 *2*	5 *3.5*	7 *5*	7 *5*	8 *5.5*	9 *6.5*	10 *7*	12 *8.5*	15 *10.5*	18 *13*	19 *13.5*	11 *8*	13 *9*	8 *5.5*	16 *11.5*
V	1 *1.5*	2 *3*	3 *4*	6 *8.5*	8 *11.5*	10 *14*	12 *17*	7 *10*	11 *15.5*	13 *18.5*	15 *21*	2 *1.5*	4 *3*	6 *4*	7 *5*	7 *5*	8 *5.5*	9 *6.5*	12 *8.5*	14 *10*	17 *12*	19 *13.5*	11 *8*	12 *8.5*	6 *4*	15 *10.5*
VI	- -	1 *1.5*	2 *3*	5 *7*	7 *10*	9 *13*	11 *15.5*	7 *10*	10 *14*	13 *18.5*	14 *20*	2 *1.5*	3 *2*	5 *3.5*	6 *4*	6 *4*	7 *5*	8 *5.5*	11 *8*	14 *10*	16 *11.5*	18 *13*	10 *7*	11 *8*	6 *4*	15 *10.5*
VII	- -	- -	1 *1.5*	4 *5.5*	6 *8.5*	8 *11.5*	10 *14*	6 *8.5*	10 *14*	12 *17*	13 *18.5*	1 *0.5*	2 *1.5*	3 *2*	5 *3.5*	6 *4*	6 *4*	9 *6.5*	10 *7*	13 *9*	15 *10.5*	17 *12*	10 *7*	10 *7*	5 *3.5*	15 *10.5*
VIII	- -	- -	- -	3 *4*	5 *7*	7 *10*	10 *14*	5 *7*	9 *13*	11 *15.5*	12 *17*	- -	1 *0.5*	2 *1.5*	4 *3*	5 *3.5*	5 *3.5*	8 *5.5*	9 *6.5*	12 *8.5*	14 *10*	16 *11.5*	8 *5.5*	9 *6.5*	5 *3.5*	14 *10*
IX	- -	- -	- -	2 *3*	4 *5.5*	6 *8.5*	9 *13*	4 *5.5*	8 *11.5*	10 *14*	12 *17*	- -	- -	1 *0.5*	3 *2*	4 *3*	4 *3*	7 *5*	8 *5.5*	11 *8*	13 *9*	16 *11.5*	8 *5.5*	9 *6.5*	4 *3*	14 *10*
X	- -	- -	- -	1 *1.5*	3 *4*	5 *7*	8 *11.5*	4 *5.5*	7 *10*	9 *13*	11 *15.5*	- -	- -	- -	2 *1.5*	3 *2*	3 *2*	6 *4*	7 *5*	10 *7*	12 *8.5*	15 *10.5*	6 *4*	8 *5.5*	4 *3*	14 *10*
XI	- -	- -	- -	- -	2 *3*	4 *5.5*	7 *10*	3 *4*	7 *10*	8 *11.5*	11 *15.5*	- -	- -	- -	1 *0.5*	2 *1.5*	2 *1.5*	6 *4*	6 *4*	10 *7*	11 *8*	15 *10.5*	5 *3.5*	7 *5*	3 *2*	14 *10*
XII	- -	- -	- -	- -	1 *1.5*	3 *4*	6 *8.5*	1 *1.5*	6 *8.5*	7 *10*	10 *14*	- -	- -	- -	- -	1 *0.5*	1 *0.5*	5 *3.5*	5 *3.5*	9 *6.5*	10 *7*	14 *10*	5 *3.5*	7 *5*	2 *1.5*	13 *9*
XIII	- -	- -	- -	- -	- -	2 *3*	5 *7*	- -	4 *5.5*	5 *7*	9 *13*	- -	- -	- -	- -	- -	1 *0.5*	4 *3*	4 *3*	8 *5.5*	9 *6.5*	14 *10*	4 *3*	6 *4*	1 *0.5*	13 *9*
XIV	- -	- -	- -	- -	- -	1 *1.5*	4 *5.5*	- -	2 *3*	5 *7*	8 *11.5*	- -	- -	- -	- -	- -	- -	3 *2*	3 *2*	7 *5*	8 *5.5*	13 *9*	3 *2*	5 *3.5*	- -	13 *9*
XV	- -	- -	- -	- -	- -	1 *1.5*	3 *4*	- -	1 *1.5*	3 *4*	5 *7*	- -	- -	- -	- -	- -	- -	2 *1.5*	3 *2*	6 *4*	7 *5*	13 *9*	1 *0.5*	5 *3.5*	- -	12 *8.5*
XVI	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
XVII	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
XVIII	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
XIX	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
XX	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

MAXIMUM SHIELD POWER
Shield Types/Shield Point Ratios

Ship Class	1/3						1/4	
	OSC	OSF	OSI	OSM	OSQ	OSNH	OSJ	OSR
I	8 *3.5*	8 *3.5*	12 *5.5*	13 *6*	15 *7*	16 *7.5*	12 *4*	13 *2.5*
II	7 *3*	7 *3*	11 *5*	12 *5.5*	15 *7*	16 *7.5*	12 *4*	13 *4.5*
III	6 *3*	6 *3*	9 *4*	12 *5.5*	14 *6.5*	16 *7.5*	10 *3.5*	13 *4.5*
IV	5 *2.5*	6 *3*	8 *3.5*	11 *5*	14 *6.5*	16 *7.5*	8 *3*	12 *4*
V	4 *2*	5 *2.5*	7 *3*	10 *4.5*	14 *6.5*	16 *7.5*	8 *3*	12 *4*
VI	4 *2*	5 *2.5*	7 *3*	9 *4*	13 *6*	15 *7*	7 *2.5*	11 *4*
VII	3 *1.5*	4 *2*	6 *3*	8 *3.5*	13 *6*	14 *6.5*	7 *2.5*	11 *4*
VIII	1 *0.5*	3 *1.5*	6 *3*	8 *3.5*	12 *5.5*	13 *6*	6 *2*	10 *3.5*
IX	- -	2 *1*	5 *2.5*	7 *3*	11 *5*	12 *5.5*	6 *2*	9 *3*
X	- -	1 *0.5*	4 *2*	6 *3*	11 *5*	11 *5*	6 *2*	9 *3*
XI	- -	- -	3 *1.5*	5 *2.5*	10 *4.5*	11 *5*	5 *1*	8 *3*
XII	- -	- -	3 *1.5*	4 *2*	9 *4*	10 *4.5*	5 *1*	7 *2.5*
XIII	- -	- -	2 *1*	3 *1.5*	9 *4*	10 *4.5*	4 *1.5*	6 *2*
XIV	- -	- -	1 *0.5*	2 *1*	8 *3.5*	9 *4*	3 *1*	5 *1*
XV	- -	- -	- -	1 *0.5*	7 *3*	6 *3*	2 *0.5*	4 *1.5*
XVI	- -	- -	- -	- -	- -	- -	- -	- -
XVII	- -	- -	- -	- -	- -	- -	- -	- -
XVIII	- -	- -	- -	- -	- -	- -	- -	- -
XIX	- -	- -	- -	- -	- -	- -	- -	- -
XX	- -	- -	- -	- -	- -	- -	- -	- -

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
OD-1	60	3	(-)	(-)	(-)	8	E	0.6	0.2 / 0.3	RRR/72	9	2198
OD-2	80	3	(-)	(1-5)	6-10	10	J	1.9	0.4 / 0.6	RRI/68	12	2216
OD-3	150	4	(-)	(-)	1-16	16	R	3	0.8 / 1.5	RRI/63	23	2237
OD-4	180	6	(-)	1-18	(-)	18	T	5.2	1.2 / 2	RRI/58	27	2250
OD-5	410	7	(-)	1-10	11-20	20	U	5.8	1.8 / 3	RRI/54	32	2261
OD-6	120	6	1-2	3-4	5-6	6	D	1.7	0.1 / 0.2	RRI/57	19	2261
OD-7	330	8	(-)	1-15	(-)	15	K	4.3	1.9 / 3	RRI/51	49	2262
OD-8	180	6	(-)	(-)	1-12	12	L	3.1	1.2 / 2	RRI/59	27	2263
OD-9	100	5	(-)	(-)	1-13	13	N	2.9	0.6 / 1	RRI/60	15	2264
OD-10	210	7	(-)	1-7	8-14	14	O	4.5	1.8 / 3	RRI/58	31	2266
OD-11	250	8	(-)	1-20	(-)	20	U	6.6	2.1 / 3.3	III/46	38	2267
OD-12	660	5	1-7	8-15	16-20	20	W	5.6	1.5 / 3	III/50	99	2270
OD-13	385	7	(-)	1-6	7-12	12	L	3.8	1.2 / 2.4	RRI/53	58	2270
OD-14	370	5	(-)	1-4	5-8	8	F	1.7	0.8 / 1.6	RRI/72	55	2271
OD-15	650	5	1-7	8-15	16-22	22	X	5.6	2 / 4	III/44	98	2273

PHASER 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
OPH-1	470	4	(-)	1-8	9-14	14	Q	3.1	1.7 / 2.6	RRI/46	70	2268
OPH-2	395	3	(-)	1-8	9-14	14	Q	2.6	1 / 1.6	RRI/49	59	2269
OPH-3	400	6	(-)	1-9	10-16	16	R	4.6	1.3 / 2	III/57	60	2274

PHOTON TORPEDO WEAPON TYPES

Missile Weapon Type	Mass (mt)	Power to Arm	Damage	Range	Firing Chart	WDF	SS	Availability	Cost (MCr)	Year
OP-1	200	1	10	12	L	4.4	1.3	III/39	30	2255
OP-2	135	1	6	8	F	1.5	0.8	III/46	20	2255
OP-3	100	1	6	6	D	1.2	0.8	III/71	15	2257
OP-4	120	1	6	10	H	2	0.9	III/40	18	2257
OP-5	225	1	10	14	Q	5.5	1.2	III/33	34	2257
OP-6	225	1	6	8	F	1.5	1.5	III/46	34	2257
OP-7	375	1	10	10	H	3.3	1	III/40	56	2262
OP-8	790	2	16	14	K	6.7	2	III/21	119	2273

PLASMA BOLT WEAPON TYPES

Missile Weapon Type	Mass (mt)	Power to Arm	Damage	Range	Firing Chart	WDF	SS	Availability	Cost (MCr)	Year
OPL-1	145	10	RL-1	8	E	3.9	2.4	III/6	22	2278

Create new starship for your Orion based characters.

This supplement to the Ship Construction Manual contains all the information necessary to construct Orion based starships for your Star Trek Role Playing Games. From agile Blockade Runners to sly trading vessels,this book allow you to design state-of-the-art starships using Orion 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 Orion ships in the FASA Star Trek Universe.

This rulebook includes tables for computers, enginer weapons and shields that are used by the Orion Colonies and vaious Triangle members. 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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