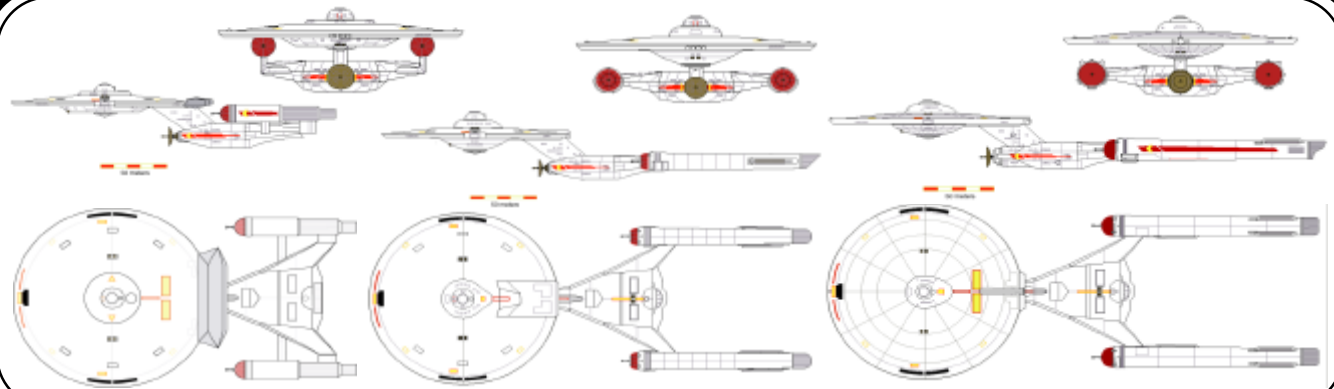


Star Trek Pre-TOS Crossfield Class VIII-X Cruiser



CONSTRUCTION DATA:

	VIII	IX	X
Class:	VIII	IX	X
Model Number:	MK I	MK II	MK III
Date Entering Service	2228	2242	2260
Number Constructed	12	32	25

HULL DATA

Superstructure:	28	33	31
Damage Chart:	C	C	C
Dimensions:			
Length:	244m	331m	357m
Width:	141m	141m	424m
Height:	54m	57m	54m
Weight:	117033 mt	128640 mt	157110 mt
Cargo Specs			
Total SCU:	390 SCU	420 SCU	470 SCU
Cargo Capacity:	19130 mt	20780 mt	23110 mt
Landing Capacity:	NO	NO	NO

EQUIPMENT DATA

Computer Type:	L-4	M-1	M-4
Cloaking Device/ECM:			
Power to Engage:			
Transporters-			
6-person:	2	2	3
20-person Combat:	0	0	0
22-person Emergency:	4	4	4
Cargo	4	4	4

OTHER DATA

Crew:	390	429	524
Passengers:	60	60	20
Troops:			
Shuttlecraft-	8	8	9

ENGINE AND POWER -

Total Power Available:	40	36	40
Movement Point Ratio:	4/1	4/1	3/1
Warp Engine Type:	FFTL-3B	FFTL-5	FWD-2
Number:	2	2	2
Power Units:	32	30	36
Stress Chart:	M/O	O/M	O/M
Max Safe Cruising Speed:	3	3	5
Emergency Speed:	4	5	7
Impulse Engine Type:	FNSP-4C	FIB-3	FID-2
Number:	1	1	1
Power Units:	8	6	4

WEAPONS/DEFENSE

Beam Weapon:	FEL-7	FL-5	FH-5
		2FP,2F,2FS,2A in 4	2FP,2F,2FS,2A in
Firing Arcs:	2P,2F,2S	banks	4 banks
Firing Chart:	H	H	R
Maximum Power:	2	2	4
Damage Modifiers			
+3			
+2	(1 - 4)	(1 - 4)	(1 - 8)
+1	(5 - 7)	(5 - 7)	(9 - 16)

Torpedo Type:	FAC-1	FAC-2	FP-2
Firing Arcs:	2F	2F	2F
Firing Chart:	F	H	H
Power To Arm:	3	4	1
Damage:	8	10	10

Shields-

Shield Type:	FDS-4	FSC	FSH
Shield Point Ratio:	2/1	1/1	1/2
Maximum Shield:	5	6	11

Combat Efficiency

D-	54.4	68.9	98.9
WDF-	10.6	15.4	33.8

NOTES:

The Crossfield cruiser was designed as a sub-class of the venerable Baton Rouge class cruiser, used for exploration, advanced research, and clandestine missions. At first glance, the untrained eye would find the two original ships indistinguishable from each other, but the Crossfield has a wider secondary hull, which houses a greater number of laboratories and equipment than its sister ship. Because of its more benign mission profile, the Crossfield is less armed and shielded than the Baton Rouge, despite having greater power. This extra power is for various experiments and specialized equipment intended to be used on these shippers.

The Mk II shows several changes in its design, most notably the warp nacelles which are now lower and slung further aft, giving the ship a flatter, more angular profile. Despite these significant upgrades, they are little help against the onslaught of the Klingon Empire during the Four Years War. The Crossfield's tactical deficiencies relegates the ship to picket and escort duty in semi-hostile areas deeper within Federation territory.

The Mk III also has considerable upgrades, including phaser, photon, and shield technology bringing the class up to par with other vessels of the era. An extended secondary hull houses an updated deflector and long range sensor array designed for extended exploration missions.

The longevity of the class is due to its series of successful scientific missions, both clandestine and in-clandestine. A number of the Crossfield class vessels were heavily modified, depending on their specific mission profiles, and bear little resemblance to their original design specifications. Most notably, the USS Glenn (NCC 1030) and the USS Discovery (NCC 1031) went through a considerable refit in 2250 to accommodate an experimental drive system, which ultimately caused them both to be lost in service. By 2285, the remaining Crossfield class vessels are decommissioned and placed into reserve fleet status.

Original design by John Eaves, et al, Paramount/CBS
 Baton Rouge by Rick Sterbach
 Original toolkits by Neale Davidson
 Re-draw by Joe Homoki <https://ufc465537.neocities.org>
 Special thanks to Lee Wood @ Morena Shipyards, for chartless system
 Special thanks to Steve Bacon @ Vintage Starships
 Special thanks to Bryan Jecko @ tacticalstarshipcombat.com
 for formulas and formats
 Special thanks to Wikipedia Memory Alpha and Memory Beta

DAMAGE CONTROL PANEL

Star Trek Pre-TOS Crossfield Class VIII-X Cruiser

MK I

SHIELDS

SHIELD TYPE: FDS-4
TURN #1 #2 #3 #4 #5 #6 #7 #8 #9 #10 #11 #12

SHIELD POINT RATIO: 2/1

MAXIMUM SHIELD POWER: 5

Shield Points Available

--	--	--	--	--	--	--	--	--	--	--	--	--	--

TURN #1	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #2	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #3	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #4	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #5	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #6	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #7	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #8	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #9	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #10	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #11	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

TURN #12	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5

DAMAGE CHART: C

DAMAGE POINT RECORD

TURN	#1	#2	#3	#4

SYSTEMS REPAIR STATUS

HITS 1ST 2ND 3RD 4TH 5TH
1-8 1-6 1-4 1-2 OUT

SENSORS					
SHIELD #1					
SHIELD #2					
SHIELD #3					
SHIELD #4					
SHIELD #5					
SHIELD #6					
ENGINEERING GRIDS					
SHIELDS					
WEAPONS					
MANEUVER					

SUPERSTRUCTURE DAMAGE TRACK

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28											

CASUALTY MODIFIER TRACK

0-19%	20-39%	40-59%	60-69%	70% +
0	-1	-2	-5	NO FIRING
	-10%	-20%	-50%	

CREW: 390

PERCENT CASUALTIES TRACK

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49	50	51	52
53	54	55	56	57	58	59	60	61	62	63	64	65
66	67	68	69	70	71	72	73	74	75	76	77	78
79	80	81	82	83	84	85	86	87	88	89	90	91
92	93	94	95	96	97	98	99	00				

DAMAGE CONTROL PANEL

Star Trek Pre-TOS Crossfield Class VIII-X Cruiser

MK II

SHIELDS

SHIELD TYPE: **FSC** SHIELD POINT RATIO: **1/1** MAXIMUM SHIELD POWER: **6**

Shield Points Available

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
----	----	----	----	----	----	----	----	----	-----	-----	-----

DAMAGE CHART: C

DAMAGE POINT RECORD

TURN	#1	#2	#3	#4
	#5	#6	#7	#8
	#9	#10	#11	#12

TURN #1	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #2	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #3	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #4	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #5	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #6	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #7	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #8	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #9	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #10	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #11	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

TURN #12	FWD	F/S	S/A	AFT	P/A
F/P #1	F/P #2	F/P #3	F/P #4	F/P #5	F/P #6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6

SYSTEMS REPAIR STATUS

HITS 1ST 2ND 3RD 4TH 5TH
1-8 1-6 1-4 1-2 OUT

SENSORS					
SHIELD #1					
#2					
#3					
#4					
#5					
#6					
ENGINEERING GRIDS					
SHIELDS					
WEAPONS					
MANEUVER					

SUPERSTRUCTURE DAMAGE TRACK

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33						

CASUALTY MODIFIER TRACK

0-19% 0	20-39% -1 -10%	40-59% -2 -20%	60-69% -5 -50%	70% + NO FIRING
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CREW: 429

PERCENT CASUALTIES TRACK

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49	50	51	52
53	54	55	56	57	58	59	60	61	62	63	64	65
66	67	68	69	70	71	72	73	74	75	76	77	78
79	80	81	82	83	84	85	86	87	88	89	90	91
92	93	94	95	96	97	98	99	00				

DAMAGE CONTROL PANEL

Star Trek Pre-TOS Crossfield Class VIII-X Cruiser

MKIII

SHIELDS

SHIELD TYPE: FSH
TURN #1 #2 #3 #4 #5 #6 #7 #8 #9 #10 #11 #12

SHIELD POINT RATIO: 1/2

MAXIMUM SHIELD POWER: 11

Shield Points Available

--	--	--	--	--	--	--	--	--	--	--	--	--	--

DAMAGE CHART: C

DAMAGE POINT RECORD

TURN	#1	#2	#3	#4

SYSTEMS REPAIR STATUS

HITS 1ST 2ND 3RD 4TH 5TH
1-8 1-6 1-4 1-2 OUT

SENSORS					
SHIELD #1					
#2					
#3					
#4					
#5					
#6					
ENGINEERING GRIDS					
SHIELDS					
WEAPONS					
MANEUVER					

SUPERSTRUCTURE DAMAGE TRACK

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31								

CASUALTY MODIFIER TRACK

0-19% 0	20-39% -1 -10%	40-59% -2 -20%	60-69% -5 -50%	70% + NO FIRING
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CREW: 524

PERCENT CASUALTIES TRACK

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49	50	51	52
53	54	55	56	57	58	59	60	61	62	63	64	65
66	67	68	69	70	71	72	73	74	75	76	77	78
79	80	81	82	83	84	85	86	87	88	89	90	91
92	93	94	95	96	97	98	99	00				

TURN #1	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11	11 11 11

TURN #2	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11	11 11 11

TURN #3	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11	11 11 11

TURN #4	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11	11 11 11

TURN #5	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11	11 11 11

TURN #6	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11	11 11 11

TURN #7	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11	11 11 11

TURN #8	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11	11 11 11

TURN #9	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11	11 11 11

TURN #10	FWD	F/S	S/A	AFT	PIA
F/P #1	#2	#3	#4	#5	#6
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7					

