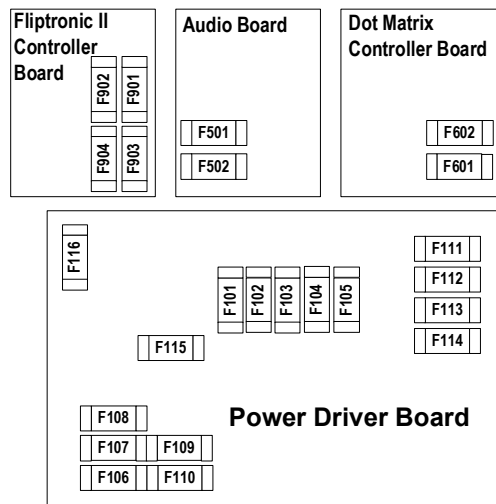


# FUSE LIST

# STAR TREK: The Next Generation (50023)

POWER DRIVER BOARD		
F101	+50V DC General (Left Flipper)	3A, 250V, SB
F102	+50V DC General (Right Flipper)	3A, 250V, SB
F103	Solenoids #25 to #28	3A, 250V, SB
F104	Solenoids #9 to #16	3A, 250V, SB
F105	Solenoids #1 to #8	3A, 250V, SB
F106	G.I. #5 White-Violet	5A, 250V, SB
F107	G.I. #4 White-Green	5A, 250V, SB
F108	G.I. #3 White-Yellow	5A, 250V, SB
F109	G.I. #2 White-Orange	5A, 250V, SB
F110	G.I. #1 White-Brown	5A, 250V, SB
F111	Flasher Secondary	5A, 250V, SB
F112	Solenoid Secondary	7A, 250V, SB
F113	+5V Logic	5A, 250V, SB
F114	+18V Lamp Matrix	8A, 32V, N.B.
F115	+12V Lamp Matrix	3/4A, 250V, FB
F116	+12V Secondary	3A, 250V, SB
Audio Board		
F501	-25V	3A, 250V, SB
F502	+25V	3A, 250V, SB
Dot Matrix Controller Board		
F601	+62V	3/8A, 250V, FB
F602	-113V & -125V	3/8A, 250V, FB
LINE FILTER		
Foreign		5A, 250V, SB
Domestic		8A, 250V, SB



Fliptronic II Controller Board		
F901	Upper Right Flipper	3A, 250V, SB
F902	Upper Left Flipper	3A, 250V, SB
F903	Lower Right Flipper	3A, 250V, SB
F904	Lower Left Flipper	3A, 250V, SB

# SOLENOID/FLASHER TABLE

Sol No.	Function	Solenoid Type	Voltage Connections			Drive Xistor	Drive Connections			Drive Wire Color	Coil/Flashlamp Type	
			Playfield	Backbox	Cabinet		Playfield	Insert	Cabinet		Playfield	Insert
01	LEFT GUN KICKER	High Power	J107-3			Q82	J130-1			VIO-BRN	AE-23-800	Insert
02	RIGHT GUN KICKER	High Power	J107-3			Q80	J130-2			VIO-RED	AE-23-800	
03	LEFT GUN POPPER	High Power	J107-3			Q78	J130-4			VIO-ORG	AE-23-800	
04	RIGHT GUN POPPER	High Power	J107-3			Q76	J130-5			VIO-YEL	AE-23-800	
05	LEFT POPPER	High Power	J107-3			Q64	J130-6			VIO-GRN	AE-23-800	
06	PLUNGER	High Power	J107-3			Q66	J130-7			VIO-BLU	AE-23-800	
07	KNOCKER	High Power		J107-3		Q68		J130-8		VIO-BLK		AE-23-800
08	KICKER	High Power	J107-3			Q70	J130-9			VIO-GRY	AE-23-800	
09	LEFT SLINGSHOT	Low Power	J107-2			Q58	J127-1			BRN-BLK	AE-26-1200	
10	RIGHT SLINGSHOT	Low Power	J107-2			Q56	J127-3			BRN-RED	AE-26-1200	
11	TROUGH	Low Power	J107-2			Q54	J127-4			BRN-ORG	AE-26-1500	
12	LEFT JET BUMPER	Low Power	J107-2			Q52	J127-5			BRN-YEL	AE-26-1200	
13	RIGHT JET BUMPER	Low Power	J107-2			Q50	J127-6			BRN-GRN	AE-26-1200	
14	BOTTOM JET BUMPER	Low Power	J107-2			Q48	J127-7			BRN-BLU	AE-26-1200	
15	TOP DIVERTER	Low Power	J107-2			Q46	J127-8			BRN-VIO	AE-25-1000	
16	BORG KICKER	Low Power	J107-2			Q44	J127-9			BRN-GRY	AL-23-800	
17	LEFT GUN MOTOR	Low Power	J118-2			Q42	J126-1			BLK-BRN	A-17562	
18	RIGHT GUN MOTOR	Low Power	J118-2			Q40	J126-2			BLK-RED	A-17562	
19	NOT USED					Q38				BLK-ORG		
20	JETS FLASHER	Flasher	J107-6			Q36	J126-4			BLK-YEL	#89	#906
21	RIGHT POPPER FLASHER	Flasher	J107-6	J106-5		Q28	J126-5	J125-6		BLU-GRN	#89	#906
22	MIDDLE RAMP FLASHER	Flasher	J107-6			Q30	J126-6			BLU-BLK	#89 (2)	#906
23	SHIELDS FLASHER	Flasher	J107-6	J106-5		Q34	J126-7	J125-8		BLU-VIO	#906 (3)	#906
24	AUTOFIRE FLASHER	Flasher	J107-6			Q32	J126-8			BLU-GRY	#906	#906
25	EXIT UNDERGRND FLASHER	Gen. Purpose	J107-6	J106-5		Q26	J122-1	J124-1		BLU-BRN	#89	#906
26	RIGHT BORG FLASHER	Gen. Purpose	J107-6	J106-5		Q24	J122-2	J124-2		BLU-RED	#906 (2)	#906
27	LEFT BORG FLASHER	Gen. Purpose	J107-6	J106-5		Q22	J122-3	J124-3		BLU-ORG	#906 (2)	#906
28	CENTER BORG FLASHER	Gen. Purpose	J107-6	J106-5		Q20	J122-4	J124-5		BLU-YEL	#906 (2)	#906
37	UNDER DIVERTER TOP	Low Power	J107-1			Q16	* J4-2			BRN-WHT	AE-25-1000	
38	UNDER DIVERTER BOTTOM	Low Power	J107-1			Q15	* J4-4			BLK-WHT	AE-25-1000	
39	TOP DROP UP	Low Power	J107-1			Q14	* J4-5			ORG-WHT	AE-26-1200	
40	TOP DROP DOWN	Low Power	J107-1			Q13	* J4-6			YEL-WHT	SM1-26-600	
41	ROMULAN FLASHERS	Low Power	J107-6	J106-5		Q9	* J3-2	* J3-2		GRN-WHT	#906	#906
42	RIGHT RAMP FLASHERS	Low Power	J107-6	J106-5		Q10	* J3-3	* J3-3		BLU-WHT	#89	#906
General Illumination			Voltage Connections			Drive Xistor	Drive Connections			Drive Wire	Bulb Type	
			Playfield	Insert	Cabinet		Playfield	Insert	Cabinet		Playfield	Insert
01	SHIELDS G.I.	G.I.	J121-1			Q18	J121-7			WHT-BRN	#44	
02	INSERT G.I.	G.I.		J120-2		Q10		J120-8		WHT-ORG		#555
03	INSERT G.I.	G.I.		J120-3		Q14		J120-9		WHT-YEL		#555
04	PLAYFIELD G.I.	G.I.	J121-5			Q16	J121-10			WHT-GRN	#44	
05	RETURN LANE / COIN	G.I.	J121-6		J119-3	Q12	J121-11		J119-1	WHT-VIO	#44	
Flipper Circuits			Playfield Voltage Connection		Drive Transistors		Playfield Drive Connections		Drive Wire Colors		Coil Part No. / Colors	
			Power	Hold	Power	Hold	Power	Hold	Power	Hold	Part No.	Colors
29	LOWER RIGHT FLIPPER		J907-7 (BLU-YEL)	Q4		J902-13	BLU-VIO				FL-11629	BLUE
30			J907-7 (BLU-YEL)	Q11		J902-11	ORG-GRN					
31	LOWER LEFT FLIPPER		J907-9 (GRY-YEL)	Q3		J902-9	BLU-GRY				FL-11629	BLUE
32			J907-9 (GRY-YEL)	Q9		J902-7	ORG-BLU					
33	UPPER RIGHT FLIPPER		J907-1 (BLU-YEL)	Q2		J902-6	BLK-YEL				FL-11629	BLUE
34			J907-1 (BLU-YEL)	Q7		J902-4	ORG-VIO					
35	NOT USED		J907-4 (GRY-YEL)	Q1		J902-3	BLK-BLU				NOT USED	NOT USED
36			J907-4 (GRY-YEL)	Q5		J902-1	ORG-GRY					

\* From 8 Driver PCB, A-16100; J4-1 = Tieback Diode J1XX-X = Power Driver Board, J9XX-X = Fliptronic II Board

# LAMP MATRIX

Column	Row	1	2	3	4	5	6	7	8
		Yellow-Brown J133-1 Q98	Yellow-Red J137-2 Q97	Yellow-Orange J137-3 Q96	Yellow-Black J137-4 Q95	Yellow-Green J137-5 Q94	Yellow-Blue J137-6 Q93	Yellow-Violet J137-7 Q92	Yellow-Grey J137-9 Q91
1 Red-Brown J133-1 Q90	LEFT BANK TOP	SHIP MODE 3	TOP LANE LEFT	Q	LEFT RETURN LANE	GENERIC 3	GENERIC 2	RIGHT RETURN LANES	
2 Red-Black J133-2 Q89	LEFT BANK MIDDLE	SHIP MODE 4	TOP LANE CENTER	GENERIC 1	LEFT LAUNCHER	INCREASE WARP	TOP 3-BANK LEFT	RIGHT LAUNCHER	
3 Red-Orange J133-4 Q88	SHIP MODE 1	SHIP MODE 5	TOP LANE RIGHT	RIGHT LOCK	ADVANCE IN RANK	SPINNER	TOP 3-BANK CENTER	MILLION JETS	
4 Red-Yellow J133-5 Q87	SHIP MODE 2	RIGHT BANK TOP	BONUS 2 X	HOLODECK	GENERIC 6	GENERIC 7	TOP 3-BANK RIGHT	KICKBACK	
5 Red-Green J133-6 Q86	LEFT BANK BOTTOM	RIGHT BANK MIDDLE	BONUS 4 X	RIGHT 2 X SHUTTLE	SUPER	LEFT MILLIONS	LEFT LOCK	BORG LOCK	
6 Red-Blue J133-7 Q85	FINAL FRONTIER	COMMAND DECISION	MULTIPLIERS HELP	GENERIC 4	JACKPOT	JACKPOT X	GENERIC 5	BORG JACKPOT	
7 Red-Violet J133-8 Q84	SHOOT AGAIN	SHIP MODE 6	BONUS 8 X	RIGHT MILLIONS	EXTRA BALL	RIFT	WORM HOLE	BUY-IN	
8 Red-Grey J133-9 Q83	SHIP MODE 7	RIGHT BANK BOTTOM	BONUS 10X	LEFT 2 X SHUTTLE	START MISSION	TIME	BORG SHIP	START BUTTON	

J1XX = Power Driver Board

# SWITCH MATRIX

Column	Row	1	2	3	4	5	6	7	8	9	FLIPPER GROUNDED SWITCHES
		Green-Brown J207-1 U20-18	Green-Red J207-2 U20-17	Green-Orange J207-3 U20-16	Green-Yellow J207-4 U20-15	Green-Black J207-5 U20-14	Green-Blue J207-6 U20-13	Green-Violet J207-7 U20-12	Green-Grey J207-9 U20-11	Violet-White *J5-1 Q11	
Orange-Brown J205-1 LEFT COIN CHUTE	White-Brown J209-1 U18-11	BUY-IN BUTTON	SLAM TILT	BORG LOCK	UNDER LEFT LOCK SWITCH 1	LEFT BANK TOP	TROUGH 1	LEFT JET	TIME	NOT USED	Black-Green J906-1 Lower Right Flipper E.O.S. F1
Orange-Red J205-2 CENTER COIN CHUTE	White-Red J209-2 U18-9	RIGHT FIRE BUTTON	COIN DOOR CLOSED	UNDER LEFT GUN SWITCH 2	UNDER LEFT LOCK SWITCH 3	LEFT BANK MIDDLE	TROUGH 2	RIGHT JET	RIFT	LEFT GUN MARK	Black-Violet J905-1 Lower Right Flipper Opto F2
Orange-Black J205-3 RIGHT COIN CHUTE	White-Orange J209-3 U18-5	START BUTTON	MADE MIDDLE RAMP	UNDER RIGHT GUN SWITCH 2	UNDER LEFT LOCK SWITCH 4	LEFT BANK BOTTOM	TROUGH 3	BOTTOM JET	MADE LEFT RAMP	NOT USED	Black-Blue J906-3 Lower Left Flipper E.O.S. F3
Orange-Yellow J205-4 4TH COIN CHUTE	White-Yellow J209-4 U18-7	PLUMB BOB TILT	ALWAYS CLOSED	RIGHT GUN SHOOTER	LEFT OUTER LOOP	RIGHT BANK TOP	TROUGH 4	RIGHT SLING	Q	NOT USED	Black-Gray J905-2 Lower Left Flipper Opto F4
Orange-Green J205-6 Normal Function Srv Crdts	White-Green J209-5 U19-11	LEFT OUTLANE	ENTER RIGHT RAMP	UNDER LEFT LOCK SWITCH 2	UNDER TOP HOLE	RIGHT BANK MIDDLE	TROUGH 5	LEFT SLING	LEFT 2 X SHUTTLE	RIGHT GUN HOME	Black-Violet J906-4 Upper Right Flipper E.O.S. F5
Orange-Blue J205-7 Normal Function Volume Dn	White-Blue J209-7 U19-9	LEFT RETURN LANE	LEFT 45° TARGET	UNDER LEFT GUN SWITCH 1	UNDER LEFT HOLE	RIGHT BANK BOTTOM	TROUGH 6	TOP LANE LEFT	RIGHT 2 X SHUTTLE	RIGHT GUN MARK	Black-Yellow J905-3 Upper Right Flipper Opto F6
Orange-Violet J205-8 Normal Function Volume Up	White-Violet J209-8 U19-5	RIGHT RETURN LANE	CENTER 45° TARGET	UNDER RIGHT GUN SWITCH 1	UNDER BORG HOLE	TOP DROP TARGET	TROUGH TOP	TOP LANE CENTER	MADE RIGHT RAMP	LEFT GUN HOME	Black-Gray J906-5 Spinner F7
Orange-Grey J205-9 Normal Function Begin Test	White-Grey J209-9 U19-7	RIGHT OUTLANE	RIGHT 45° TARGET	LEFT GUN SHOOTER	BORG ENTRY	RIGHT OUTER LOOP	SHOOTER	TOP LANE RIGHT	ENTER LEFT RAMP	NOT USED	Black-Blue J905-5 Not Used F8

J2XX = CPU Board; J9XX = Fliptronic II Board; = OPTO, TYPICALLY CLOSED \*Located on 8 driver PCB, A-16100, in backbox