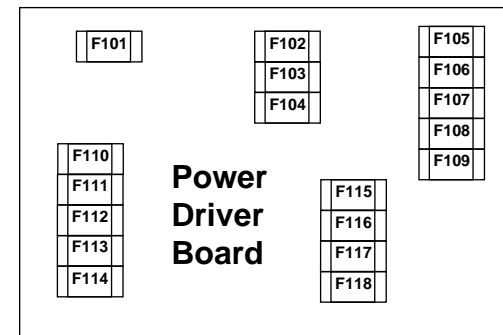
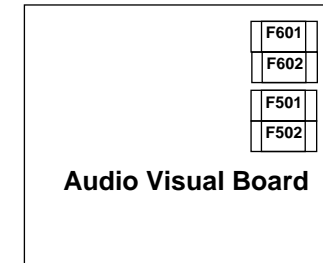


Cirrus Voltaire (50062)

FUSE LIST

AUDIO/VIDEO BOARD			POWER DRIVER BOARD					
F501	-25V	T2.5A, 250V	F101	Regulated 12V	T0.63A, 250V	F110	G.I. #5 White-Violet	T4.0A, 250V
F502	+25V	T2.5A, 250V	F102	Solenoids #25 to #28	T4.0A, 250V	F111	G.I. #4 White-Green	T4.0A, 250V
F601	+62V	T0.315A, 250V	F103	Solenoids #1 to #8	T4.0A, 250V	F112	G.I. #3 White-Yellow	T4.0A, 250V
F602	-113V & -125V	T0.315A, 250V	F104	Solenoids #9 to #16	T4.0A, 250V	F113	G.I. #2 White-Orange	T4.0A, 250V
			F105	+5V Logic	T4.0A, 250V	F114	G.I. #1 White-Brown	T4.0A, 250V
			F106	+18V Lamp Matrix	T5.0A, 250V	F115	+50V Flippers	T4.0A, 250V
			F107	Flasher Secondary	T4.0A, 250V	F116	+50V Flippers	T4.0A, 250V
			F108	Solenoid Secondary	T6.3A, 250V	F117	+50V Flippers	T4.0A, 250V
			F109	Unregulated 12V	T4.0A, 250V	F118	+50V Flippers	T4.0A, 250V
						F119	+50V Flippers	T4.0A, 250V

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE OF FUSE HAVING THE SAME ELECTRICAL RATINGS.
ATTENTION: UTILISER UN FUSIBLE DE RECHARGE DE MEME TYPE



SOLENOID/FLASHER TABLE

Sol No.	Function	Solenoid Type	Voltage Connections			Drive Xistor	Drive Connections			Drive Wire Color	Solenoid Part Number	
			Playfield	Backbox	Cabinet		Playfield	Backbox	Cabinet		Playfield	Backbox
01	PLUNGER	High Power	J133-2			Q72	J116-1			VIO-BRN	AE-23-800	
02	BACKBOX KICK	High Power		J134-3		Q68		J118-2		VIO-RED	AE-23-800	
03	LEFT LOOP MAGNET	High Power	J133-2			Q71	J116-4			VIO-ORG	20-10197	
04	MIDDLE JET BUMPER	High Power	J133-2			Q67	J116-5			VIO-YEL	AE-23-800	
05	RAMP MAGNET	High Power	J133-2			Q70	J116-6			VIO-GRN	20-10197	
06	DIVERTER POWER	High Power	J133-2			Q66	J116-7			VIO-BLU	FL-11753	
07	JET UP	High Power	J133-2			Q69	J116-8			VIO-BLK	FL-11630	
08	JET RELEASE	High Power	J133-2			Q65	J116-9			VIO-GRY	SM1-26-600	
09	TROUGH EJECT	Low Power	J133-3			Q44	J114-1			BRN-BLK	AE-26-1500	
10	LEFT SLINGSHOT	Low Power	J133-3			Q48	J114-3			BRN-RED	AE-26-1200	
11	RIGHT SLINGSHOT	Low Power	J133-3			Q43	J114-4			BRN-ORG	AE-26-1200	
12	UPPER JET BUMPER	Low Power	J133-3			Q47	J114-5			BRN-YEL	AE-26-1200	
13	LOWER JET BUMPER	Low Power	J133-3			Q42	J114-6			BRN-GRN	AE-26-1200	
14	LEFT SAUCER	Low Power	J133-3			Q46	J114-7			BRN-BLU	AE-27-1200	
15	RIGHT SAUCER	Low Power	J133-3			Q41	J114-8			BRN-VIO	AE-27-1200	
16	LOCK POST	Low Power	J133-3			Q45	J114-9			BRN-GRY	AE-26-1500	
17	JOIN FLASHERS	Flasher	J133-6			Q28	J111-1			BLK-BRN	#906	
18	RING #1 FLASHERS	Flasher	J133-6			Q32	J111-2			BLK-RED	#906	
19	RING #2 FLASHERS	Flasher	J133-6			Q27	J111-3			BLK-ORG	#906	
20	RING #3 FLASHERS	Flasher	J133-6			Q31	J111-4			BLK-YEL	#906	
21	RIGHT PLAYFIELD FLASHER UPPER RIGHT BACKBOX FLS	Flasher	J133-3	J134-5		Q26	J111-5	J112-6		BLU-GRN	#906	#906
22	MOTOR ENABLE	Flasher	J133-6			Q30	J111-6			BLU-BLK	A-15680	
23	JET FLASHER	Flasher	J133-6			Q25	J111-7			BLU-VIO	#906	
24	LEFT PLAYFIELD FLASHER UPPER LEFT BACKBOX FLS	Flasher	J133-6	J134-5		Q29	J111-8	J112-9		BLU-GRY	#906	#906
25	UPPER LEFT FLASHER	Gen. Purpose	J133-6			Q16	J109-1			BLU-BRN	#906	
26	UP. RIGHT PLAYFIELD FLS LOWER LEFT BACKBOX FLS	Gen. Purpose	J133-6	J134-5		Q15	J109-2	J107-3		BLU-RED	#906	#906
27	RINGMASTER FLASHERS (2)	Gen. Purpose	J133-6			Q14	J109-3			BLU-ORG	#906	
28	BEAR PLAYFIELD FLASHER LOWER RIGHT BACKBOX FLS	Gen. Purpose	J133-6	J134-5		Q13	J109-4	J107-5		BLU-YEL	#906	#906

General Illumination	Voltage Connections	Drive Xistor	Drive Connections	Drive Wire	Bulb Type				
						Playfield	Insert	Cabinet	Playfield
01	PLAYFIELD RIGHT	G.I.	J105-1	Q5	J105-7	WHT-BRN	#44		
02	PLAYFIELD MIDDLE	G.I.	J105-2	Q4	J105-8	WHT-ORG	#44		
03	PLAYFIELD LEFT	G.I.	J105-3	Q3	J105-9	WHT-YEL	#44		
04	* BACKBOX 2	G.I.		J106-5	Q2		J106-10		#555
05	* BACKBOX 1	G.I.		J106-6	J104-3	Q1	J106-11	J104-1	#555

Flipper Circuits	Solenoid Type	Voltage Connection	Drive Transistors	Drive Connections	Drive Wire Colors	Coil Part No.	Coil Colors	
								Power
29	LOWER RIGHT FLIPPER	Power	J119-1 (RED-GRN)	Q90	J120-13	YEL-GRN	FL-11630	RED
30		Hold	J119-1 (RED-GRN)	Q92	J120-11	ORG-GRN		
31	LOWER LEFT FLIPPER	Power	J119-4 (RED-BLU)	Q87	J120-9	YEL-BLU	FL-11630	RED
32		Hold	J119-4 (RED-BLU)	Q89	J120-7	ORG-BLU		
33	POPPER	Power	J119-6 (RED-VIO)	Q84	J120-6	YEL-VIO	AL-25-1000	BROWN
34	DIVERTER HOLD	Hold	J119-6 (RED-VIO)	Q86	J120-4	ORG-VIO	FL-11730	YELLOW
35	RINGMASTER MAGNET	Power	J119-8 (RED-GRY)	Q81	J120-3	YEL-GRY	20-10197	
36	UPPER POST	Hold	J119-8 (RED-GRY)	Q83	J120-1	ORG-GRY	AE-27-1200	WHITE

Motor Circuit	Solenoid Type	Voltage Connection	Drive Gates	Drive Connections	Drive Wire Colors	Device Part Number		
							Playfield	Playfield
37	NEON	Low Power	J139-2		U3A, U3B	J110-1	BRN-WHT	A-21577
38	NOT USED							
39	MOTOR DIRECTION	Low Power	J133-6		U3G, U3H	J110-4	YEL-WHT	A-15680
40	EDDY BOARD	Low Power	J139-2		U3E, U3F	J110-5	BLU-WHT	A-21745-2

J1XX = POWER DRIVER BOARD

24-6549 = #44 BULB; 24-8704 = #89 BULB; 24-8768 = #555 BULB; 24-8802 = #906 BULB

*These general illumination strings do not brighten and dim, they are always on

LAMP MATRIX

Column	Row	1 Yellow-Brown	2 Yellow-Red	3 Yellow-Orange	4 Yellow-Black	5 Yellow-Green	6 Yellow-Blue	7 Yellow-Violet	8 Yellow-Grey
		J121-1 Q96	J121-2 Q100	J121-3 Q95	J121-4 Q99	J121-5 Q94	J121-6 Q98	J121-7 Q93	J121-9 Q97
1 Red-Brown		CIRQUS "R"	CIRQUS "I"	SIDE SHOW	RING-MASTER LEFT	CRANK TOP	MIDDLE JACKPOT	WOW RIGHT "W" TARGET	EXTRA BALL
2 Red-Black		GRID TOP	CIRQUS "C"	LEFT LOOP TOP	RING-MASTER 2	CRANK 2	RIGHT JACKPOT	WOW "O" TARGET	TOP JET BUMPER
3 Red-Orange		CIRQUS "Q"	GRID MIDDLE/ LEFT	LEFT LOOP 3	RING-MASTER 3	CRANK 3	LIGHT STANDUP TARGET	WOW LEFT "W" TARGET	MIDDLE JET BUMPER
4 Red-Yellow		CIRQUS "U"	GRID BOTTOM/ LEFT	LEFT LOOP 2	RING-MASTER 4	CRANK BOTTOM	LOCK STANDUP TARGET	RING "N"	LOWER JET BUMPER
5 Red-Green		GRID TOP/RIGHT	GRID BOTTOM	LEFT LOOP 1	RING-MASTER RIGHT	RIGHT LOOP TOP	RING "R"	RING "G"	RIGHT IN-LANE
6 Red-Blue		CIRQUS "S"	GRID MIDDLE	MULTIBALL	SPECIAL	RIGHT LOOP 3	RING "I"	RIGHT OUTLANE	VOLT LEFT
7 Red-Violet		GRID MIDDLE/ RIGHT	GRID BOTTOM/ RIGHT	LOCK	RAZZ	RIGHT LOOP 2	SHOOT AGAIN	LEFT IN-LANE	VOLT RIGHT
8 Red-Grey		LEFT JACKPOT	GRID TOP/LEFT	SPOT MARVEL	FRENZY	RIGHT LOOP 1	LEFT OUTLANE	SKILL RING	START BUTTON

J1XX = Power Driver Board

SWITCH MATRIX

DEDICATED GROUNDED SWITCHES	Column	Row	1 Green-Brown	2 Green-Red	3 Green-Orange	4 Green-Yellow	5 Green-Black	6 Green-Blue	7 Green-Violet	8 Green-Grey	FLIPPER GROUNDED SWITCHES
			J206-1 U20-18	J206-2 U20-17	J206-3 U20-16	J206-4 U20-15	J206-5 U20-14	J206-6 U20-13	J206-7 U20-12	J206-9 U20-11	
Orange-Brown J205-1 LEFT COIN CHUTE U17-5	D1	1 White-Brown J208-1 U18-11	BACKBOX LUCK	SLAM TILT	TROUGH EJECT	LEFT LANE	LEFT SLINGSHOT	LIGHT STANDUP TARGET	LEFT SAUCER	NOT USED	Black-Green J208-13 Lower Right Flipper E.O.S.
Orange-Red J205-2 CENTER COIN CHUTE U17-7	D2	2 White-Red J208-2 U18-9	WIRE RAMP ENTER	COIN DOOR CLOSED	TROUGH BALL 1	RING-MASTER UP	RIGHT SLINGSHOT	LOCK STANDUP TARGET	RIGHT SAUCER	NOT USED	Blue-Violet J212-12 Lower Right Flipper Opto
Orange-Black J205-3 RIGHT COIN CHUTE U17-11	D3	3 White-Orange J208-3 U18-5	START BUTTON	RIGHT LOOP UPPER	TROUGH BALL 2	RING-MASTER MIDDLE	UPPER JET BUMPER	RAMP ENTER	NOT USED	NOT USED	Black-Blue J208-12 Lower Left Flipper E.O.S.
Orange-Yellow J205-4 4th COIN CHUTE U17-9	D4	4 White-Yellow J208-4 U18-7	PLUMB BOB TILT	ALWAYS CLOSED	TROUGH BALL 3	RING-MASTER DOWN	MIDDLE JET BUMPER	RAMP MAGNET	BIG BALL REBOUND	NOT USED	Blue-Gray J212-11 Lower Left Flipper Opto
Orange-Green J205-6 Normal Function Srv Crdts	D5	5 White-Green J208-5 U19-11	LEFT LOOP UPPER	INNER LOOP LEFT	TROUGH BALL 4	LEFT RAMP MADE	LOWER JET BUMPER	RAMP MADE	VOLT RIGHT	NOT USED	Black-Violet J208-11 RIGHT SPINNER
Orange-Blue J205-7 Normal Function Volume Dn	D6	6 White-Blue J208-7 U19-9	TOP EDDY	LEFT IN-LANE	POPPER OPTO	TROUGH UPPER	SKILL SHOT	RAMP LOCK LOW	VOLT LEFT	NOT USED	Black-Yellow J212-10 Upper Right Flipper Opto
Orange-Violet J205-8 Normal Function Volume Up	D7	7 White-Violet J208-8 U19-5	RIGHT IN-LANE	LEFT OUTLANE	"WOW" TARGETS	TROUGH MIDDLE	RIGHT OUTLANE	RAMP LOCK MIDDLE	NOT USED	NOT USED	Black-Gray J208-10 LEFT SPINNER
Orange-Grey J205-9 Normal Function Begin Test	D8	8 White-Grey J208-9 U19-7	SHOOTER LANE	INNER LOOP RIGHT	TOP TARGETS	LEFT LOOP ENTER	RING "N", "G"	RAMP LOCK HIGH	NOT USED	NOT USED	Black-Blue J212-9 Upper Left Flipper Opto

J2XX = CPU Board = OPTO, TYPICALLY CLOSED