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POPEYE SAVES THE EARTH

Operators Handbook

Midway Manufacturing Company 3401 North California Avenue Chicago, Illinois 60618

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MENU SYSTEM OPERATION

The Main Menu allows you to choose from several categories, which in turn lead to other menus. To access the Main Menu, open the coin door and press the Begin Test button, then press the Enter button. Press the Up or Down buttons to cycle through the Main Menu. Press the Enter button to access a menu. Press the Escape button to return to the Main Menu. Press the Start button for HELP at any time.

Main Menu B. Bookkeeping Menu B.1 Main Audits B.2 Earnings Audits B.3 Standard Audits B.4 Feature Audits B.5 Histograms B.6 Time-Stamps P. Printouts Menu P.1 Earnings Data P.2 Main Audits P.3 Standard Audits P.4 Feature Audits P.5 Score Histograms
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T 6 Single Lamps
T.9 All Lamps
T.10 Lamp & Flasher Test
T.11 Display Test
T.12 Flapper Test
T.13 Ordered Lamp Test
T.14 Lockup Test
T.15 Wheel Test
T.15 Wheel Test T.16 Clear Ball Test U. Utilities Menu U.1 Clear Audits
U.2 Clear Coins
U.3 Reset H.S.T.D.
U.4 Set Time & Date U.5 Custom Message U.6 Set Game I.D. U.7 Factory Adjustments
U.8 Factory Resets U.9 Presets
U.10 Clear Credits
U.11 Auto Burn-In A. Adjustments Menu A.1 Standard Adjustments
A.2 Feature Adjustments
A.3 Pricing Adjustments
A.4 H.S.T.D. Adjustments
A.5 Printer Adjustments

Press Escape
To move out of a menu selection.

Press Enter
To get into a menu selection.

Press Up Increases sequence; Example A.1, A.2, A.3, A.4.

Press Down
Decreases Sequence; Example A.4, A.3, A.2, A.1.

Use Up and Down to cycle through the selections in a menu.

Use Escape and Enter to move into and out of the selected menu

LAMP MATRIX

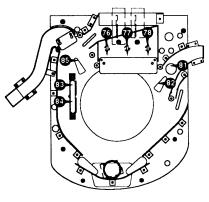
						Yellow (B+)	⊢ Red	
R	Column	1 Yellow- Brown J138-1 Q98	2 Yellow- Red J138-2 Q97	3 Yellow- Orange J138-3 Q96	4 Yellow- Black J138-4 Q95	5 Yellow- Green J138-5 Q94	6 Yellow- Blue J138-6 Q93	7 Yellow- Vloiet J138-7 Q92	8 Yellow- Gray J138-9 Q91
1	Red- Brown J134-1 Q90	Left Lane 11	Island Rhino 21	Lockjaw 31	Spilko Oil Co.	Left Loop Arrow 51	"Sea" Standup 61	Backbox Tail 71	Upper Extra Ball 81
2	Red- Black J134-2 Q89	Center Lane 12	Island Leopard 22	Never Green Co. 32	Blutonium Waste	Left Loop Can 52	Animal Dolphin 62	Backbox Star 72	Wimpy 2X Wheel 82
3	Red- Orange J134-4 Q88	Right Lane 13	Island Eagle 23	Earth Paving Co. 33	Left Outlane 43	Popeye "P1"	Left Popper Arrow 63	Animal Rhino 73	Two Bank Upper 83
4	Red- Yellow J134-5 Q87	Fight Bluto 14	Island Dolphin 24	Escalator Enter 34	Left Flipper Lane	Popeye "O"	Instant Multi-ball 64	Backbox Right 74	Two Bank Lower
5	Red- Green J134-6 Q86	Right Popper Can	Item Can Opener 25	Popeye "E1" 35	Right Flipper Lane 45	Popeye "P2" 55	Left Cheek 65	Animal Eagle 75	Animal Jackpot 85
6	Red- Blue J134-7 Q85	Right Loop Arrow	Item Bottle 26	Popeye "Y"	Special 46	Left Ramp Arrow 56	Right Cheek	Upper Ramp Left 76	Buy-in 86
7	Red- Violet J134-8 Q84	Right Loop Can	Item Katsup 27	Popeye "E2" 37	Shoot Again 47	Collect Item 57	Animal Panda 67	Upper Ramp Center	Launch Button 87
8	Red- Gray J134-9 Q83	"Hag" Standup 18	island Panda 28	Item Flower 38	Rescue Olive 48	Left Ramp Can	Animal Leopard	Upper Ramp Right 78	Start Button 88

J1XX = Power Driver Board

LAMP LOCATIONS

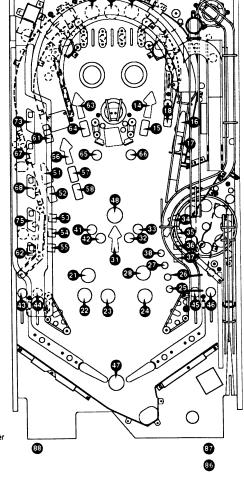
item. No.	Bulb No.	Lamp Assy. No.	Description	item No.	Buib No.	Lamp Assy, No.	<u>Description</u>
	24-8768	A-17624	Left Lane	31	24-8768	A-17602	Lockjaw
11			Center Lane	32	24-8768	A-17602	Never Green Co.
12	24-8768	A-17624					
13	24-8768	A-17624	Right Lane	33	24-8768	A-17602	Earth Paving Co.
14	24-8768	A-17600	Fight Bluto	34	24-8768	A-17602	Escalator Enter
15	24-8768	A-17600	Right Popper Can	35	24-8768	A-17602	Popeye "E1"
16	24-8768	A-17600	Right Loop Arrow	36	24-8768	A-17602	Popeye "Y"
17	24-8768	A-17600	Right Loop Can	37	24-8768	A-17602	Popeye "E2"
18	24-8768	A-17600	"Hag" Standup	38	24-8768	A-17602	Item Flower
21	24-8768	A-17602	Island Rhino	41	24-8768	A-17602	Spillco Oil Co.
22	24-8768	A-17602	Island Leopard	42	24-8768	A-17602	Blutonium Waste
23	24-8768	A-17602	Island Eagle	43	24-6549	A-17835	Left Outlane
24	24-8768	A-17602	Island Dolphin	44	24-6549	A-17835	Left Flipper Lane
25	24-8768	A-17602	Item Can Opener	45	24-6549	A-17835	Right Flipper Lane
26	24-8768	A-17602	Item Bottle	46	24-6549	A-17807	Special
27	24-8768	A-17602	Item Katsup	47	24-6549	A-17807	Shoot Again
28	24-8768	A-17602	Island Panda	48	24-6549	A-17807	Rescue Olive

LAMP LOCATIONS Continued



<u>Hem</u> No.	Bu l b No.	<u>Lamp</u> Assy. No.	<u>Description</u>
51	24-6549	A-17807	Left Loop Arrow
52	24-6549	A-17835	Left Loop Can
53	24-8768	A-17603	Popeye "P1"
54	24-8768	A-17603	Popeye "O"
55	24-8768	A-17603	Popeye "P2"
56	24-6549	A-17835	Left Ramp Arrow
57	24-6549	A-17835	Collect Item
58	24-6549	A-17835	Left Ramp Can
61	24-6549	A-17835	"Sea" Standup
62	24-8768	A-12887	Animal Dolphin
63	24-6549	A -17835	Instant Multi-ball
64	24-6549	A-17835	Left Popper Can
65	24-6549	A-17807	Left Cheek
66	24-6549	A-17807	Right cheek
67	24-8768	A-12887	Animal Panda
68	24-8768	A-12887	Animal Leopard
71	24-8768		 Backbox Tail
72	24-8768		* Backbox Star
73	24-8768	A-12887	Animal Rhino
74	24-8768		* Backbox Right
75	24-8768	A-12887	Animal Eagle
76	24-6549	A-11905	† Upper Ramp Left
77	24-6549	A-11905	† Upper Ramp Center
78	24-6549	A-11905	† Upper Ramp Right
81	24-6549	A-17836	Upper Extra Ball
82	24-6549	A-17835	Wimpy 2X Wheel
83	24-8768	A-17853	Two Bank Upper
84	24-8768	A-17853	Two Bank Lower
85	24-6549	A-17835	Animal Jackpot
86	20-9663-9		Buy-In
87	20-9663-B	-4	Launch Button
88	20-9663-1		Start Button

* Not Shown



24-8768 = #555 Bulb 24-6549 = #44 Bulb

[†] Associated Parts: A-12753-2 Lug & Diode

SWITCH MATRIX

							White		- Green	
Dedicated Grounded Switches	Column	1 Green- Brown J207-1 U20-18	2 Green- Red J207-2 U20-17	3 Green- Orange J207-3 U20-16	4 Green- Yellow J207-4 U20-15	Green- Black J207-5 U20-14	6 Green- Blue J207-6 U20-13	7 Green- Violet J207-7 U20-12	8 Green- Gray J207-9 U20-11	Filipper Grounded Switches
Orange-Brown (1) J205-1 Left Coin Chute na	1 White- Brown J209-1 U18-11	Left Lane	Stam Tift 21	Left Popper	Two Bank	Right Trough 51	Left Cheek 61	Popeye *P1*	Upper Edil To Wheel	Black-Green J906-1 Right Flipper End of Stroke F1
Center Coin Chute D1 Orange-Red (2) J205-2 Center Coin Chute D2	2 White- Red J209-2 U18-9	Buy-In	Coin Door Closed	Right Popper	Center Lane	Trough 2nd	Right Cheek	Popeye *O*	Upper Pamp Left 82	Blue-Vlolet J905-1 Right Flipper Opto F2
Orange-Black (3) J206-3 Right Coin Chute p3	3 White- Orange J209-3 U18-5	Start Buffon	Ball Launch 23	Plight Loop Opto 32	Lockup Upper	Trough 3rd 53	Escalator Exit	Popeye "P2"	Upper Ramp Right 82	Black-Blue J906-3 Left Filipper End of Stroke F3
Orange-Yellow (4) J205-4 4th Coin Chute D4	4 White- Yellow J209-4 U18-7	Plumb Bob Tilt 14	Always Closed	Plamp Entrance 24	Lockup Center 44	Trough 4th 64	Animal Dolphin	Left Outlane 74	Animal Jackpot 84	Blue-Gray J905-2 Left Flipper Opto F4
Orange-Green (6) J205-6 Normal Test Function Function Service Credits Escape D6	5 White- Green J209-5 U19-11	Right Lane	Left Loop	Ramp Completion	Lockup Lower	Trough 5th 56	Animal Eagle	Left Flipper Lane 75	Right Outlane 86	Black-Violet J906-4 Upper Right Flipper End of Stroke F6
Orange-Blue (6) J205-7 Normal Test Function Function Volume Down Down D6	6 White- Blue J209-7 U19-9	Left Jet 16	Popeye "E1"	Escalator Popper	Wheel Opto 1	Left Trough	Animal Tiger	Left Stingshot 76	Shooter Lane 86	Black-Yellow J905-3 Upper Right Flipper Opto F6
Orange-Violet (7) J206-8 Normal Test Function Function	7 White- Violet J209-8 U19-5	Right Jet 17	Popeye "Y"	Wheel Ext	Wheel Opto 2	Trough Jam 67	Animal Panda 67	Right Stingshot 77	Lock-up Kicker 87	Black-Gray J908-5 Upper Left Filipper End of Stroke F7
Volume Up Up D7 Orange-Gray (8) J205-9 Normal Test Function Begin Test Enter D6	8 White- Gray J209-9 U19-7	Center Jet	Popeye *E2*	"Hag" Standup	Wheel Opto 3 48	"Sea" Standup 58	Animal Pihino 68	Right Flipper Lane 78	Upper Shot Exit 88	Black-Blue J905-5 Upper Left Filipper Opto F8

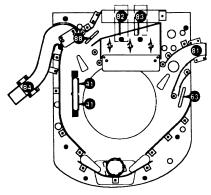
J2XX = CPU Board, JSXX = Fliptronic II Board

SWITCH LOCATIONS

= Opto, Typically Closed

		OWNIONEO	A 11011	•	
<u>item</u>	Switch Part #	Where Used	item	Switch Part #	Where Used
F1	SW-1A-194	*Lower Right Flipper EOS	32	A-16908 (LED)	Right Popper
F2	A-17316	*Lower Right Flipper Cabinet		A-16909 (Trans.)	
F3	SW-1A-194	*Lower Left Flipper EOS	33	A-16908 (LED)	Right Loop Opto
F4	A-17316	*Lower Left Flipper Cabinet		A-16909 (Trans.)	
F5	SW-1A-194	*Upper Right Flipper EOS	34	A-16908 (LED)	Ramp Entrance
F6	A-17316	*Upper Right Flipper Cabinet		A-16909 (Trans.)	
F7	SW-1A-194	*Upper Left Flipper EOS	35	A-16908 (LED)	Ramp Completion
F8	A-17316	*Upper Left Flipper Cabinet		A-16909 (Trans.)	
			36	A-16908 (LED)	Escalator Popper
11	5647-12693-19	Left Lane		A-16909 (Trans.)	
12	20-9663-9	Buy-in	37	A-16908 (LED)	Wheel Exit
13	20-9663-1	Start Button		A-16909 (Trans.)	
14	A-15361	*Plumb Bob Tilt	38	A-17795-6	'Hag' Stand-up
15	5647-12693-19	Right Lane	41	A-17226-4	Two Bank (2)
16	SW-11A-37	Left Jet	42	5647-12693-19	Center Lane
17	SW-11A-37	Right Jet	43	5647-12693-25	† Lockup Upper
18	SW-11A-37	Center Jet	44	5647-12693-25	† Lockup Center
21	A-17238	*Slam Tilt	45	5647-12693-25	† Lockup Lower
22	5643-09288-00	*Coin Door Closed	46	A-17069	† Wheel Opto 1
23	20-9663-B-4	Ball Launch	47	A-17069	† Wheel Opto 2
24	5643-09112-00	*Always Closed	48	A-17069	† Wheel Opto 3
25	5647-12693-19	Left Loop	51	A-16927 (LED)	Right Trough
26	A-17778-15	Popeye "E1"		A-16926 (Trans.)	
27	A-17778-15	Popeye "Y"	52	A-16927 (LED)	Trough 2nd
28	A-17778-15	Popeye "E2"		A-16926 (Trans.)	-
31	A-16908 (LED)	Left Popper	53	A-16927 (LED)	Trough 3rd
	A-16909 (Trans.)	• •		A-16926 (Trans.)	=

SWITCH LOCATIONS Continued



item	Switch Part #	Where Used
54	A-16927 (LED)	Trough 4th
	A-16926 (Trans.)	Tanada Cab
55	A-16927 (LED) A-16926 (Trans.)	Trough 5th
56	A-16927 (LED)	Left Trough
50	A-16926 (Trans.)	zen rrougn
57	A-16927 (LED)	Trough Jam
	A-16926 (Trans.)	3
58	A-17795-6	'Sea' Stand-up
61	A-17799-4	Left Cheek
62	A-17799-4	Right Cheek
63	5647-12693-19	Escalator Exit
64	5647-12693-21	Animal Dolphin
65	5647-12693-21	Animal Eagle
66	5647-12693-21	Animal Tiger
67	5647-12693-21	Animal Panda
68	5647-12693-21	Animal Rhino
71	A-17799-15	Popeye "P1"
72	A-17799-15	Popeye 'O'
73	A-17799-15	Popeye 'P2'
74	5647-12693-19	Left Outlane
75 76	5647-12693-19 SW-1A-114	Left Flipper Lane
10	SW-1A-114	Left Slingshot (kicker) (score)
77	SW-1A-114	Right Slingshot (kicker)
"	SW-1A-120	(score)
78	5647-12693-19	Right Flipper Lane
81	A-16908 (LED)	Upper Exit to Wheel
01	A-16909 (Trans.)	Opper Exit to Wiles.
82	A-16908 (LED)	Upper Ramp Left
	A-16909 (Trans.)	Specification and an arrangement of the second
83	A-16908 (LED)	Upper Ramp Right
	A-16000 (Trans)	

A-16909 (Trans.)

5647-12693-25 5647-12693-19

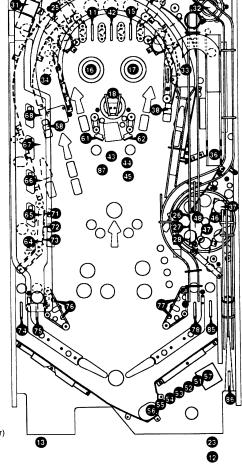
5647-12693-19

5647-12693-25 5647-12693-19

86

Upper Ramp Left Upper Ramp Right

Animal Jackpot Right Outlane Shooter Lane † Lockup Kicker Upper Shot Exit



* Not Shown † Located Under Playfield

SOLENOID TABLE

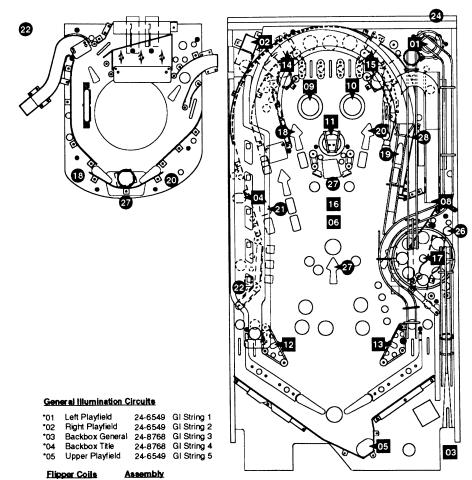
Sol.	Function	Solenoid Type	Vo	tage Conne	ctions	Drive		rive Connec	tions	Drive Wire	Flashie	art Number mp Type
		1712	Playfield	Beckbox	Cabinet		Playfield	Backbox	Cabinet	Color	Playfield	Backbox
01	Right Popper	High Power	J130-1			Q82	J107-3			Vio-Bm	AE-26-1200	
02	Left Popper	High Power	J130-2			Q80	J107-3			Vio-Red	AE-24-900	
03	Ball Shooter	High Power	J130-4			Q78	J107-3			Vio-Org	AE-23-800	
04	Animal Diverter	High Power	J130-5			Q76	J107-3			Vio-Yel	AE-26-1200	
05	Trough Coil	High Power	J130-6		1	Q64	J107-3				AE-26-1500	
06	Lockup Kicker	High Power	J130-7			Q66	J107-3			Vio-Blu	AE-23-800	
	Knocker	High Power		J130-8	1	Q68		J107-3		Vio-Blk		AE-23-800
08	Escalator Popper	High Power	J130-9		1	Q70	J107-3				AE-23-800	
09	Left Jet	Low Power	J127-1	1		Q58	J107-2				AE-26-1200	
10	Right Jet	Low Power	J127-3			Q56	J107-2				AE-26-1200	
11	Center Jet	Low Power	J127-4			Q54	J107-2				AE-26-1200	
12	Left Slingshot	Low Power	J127-5		1	Q52	J107-2				AE-26-1200	
13	Right Slingshot	Low Power	J127-8	1	1	Q50	J107-2			Brn-Grn	AE-26-1200	
14	Left Gate	Low Power	J127-7			Q48	J107-2			Brn-Blu	A-14406	
15	Right Gate	Low Power	J127-8		T	Q46	J107-2				A-14406	
	Lockup Release	Low Power	J127-9			Q44	J107-2			Brn-Gry	AE-26-1500	
	Wheel Motor	Flasher	J126-1			Q42	J107-6			Blk-Bm	14-7990	
	Upper Playfield Left	Flasher	J126-2			Q40	J107-6				#906,#89(2)	
	Right Loop Backbox	Flasher	J126-3	J125-5		Q38	J107-6	J106-5			#89 (1)	#906 (1)
20	Fight Bluto	Flasher	J126-4			Q36	J107-6			B#k-Yel	#906.#89(2)	
21	Left Loop Blobx.	Flasher	J128-5	J125-6		Q28	J107-6	J106-5			#89 (1)	#906 (1)
	Animal Ramp	Flasher	J126-6	J125-7		Q30	J107-6	J106-5		Blu-Blk	#906 (2)	#906 (1)
	Skill Wheel	Flasher	J126-7	J125-8		Q34	J107-6	J106-5		Blu-Vio	#906 (1)	#906 (1)
24	R Popper Block ExB	Flasher	J126-8	J125-9		032	J107-6	J106-5		Blu-Gry	#908 (1)	#908 (1)
	Not Used	Gen. Purpose				026				Blu-Bm		
	Ramo Jackpot	Gen. Purpose	J122-2	J124-2		Q24	J107-6	J106-5		Blu-Red		#906 (1)
	Lockiaw Arrow	Gen. Purpose	J122-3	J124-3		022	J107-6	J106-5			#89 (2)	#906 (1)
28	Esclir BlobxTurtle	Gen. Purpose	J122-4	J124-4		Q20	J107-6	J106-56		Blu-Yel	#908 (1)	#906 (1)
	General Illumination											
01	Left Playfield	G.I.	J121-1			Q18	J121-7			Wht-Brn	24-6549	
	Right Playfield	G.I.	J121-2			Q10	J121-8			Wht-Ora	24-6549	
03	Backbox General	G.I.		J120-3		Q14		J120-9		Wht-Yel		24-8768
04	Backbox Title	G.I.		J120-5		Q16		J120-10		Wht-Gm		24-8768
05	Upper Playfield	G.I.	J121-8			Q12	J121-11			Wht-Vio	24-6549	
			Voltage C	onnections	Drive Tren:	eistors	Drive C	onnections	Drive Wire	Colors	Coil Part	Coil
	Flipper Circuits			field	Power	Hold	Pla	wfield	Power	Hold	Number	Colors
	[Lwr. Lt. Power		(Gry-Yel)	Q3			02-9	Blu-Gry		1	1
	Lower Left Flipper	Lwr. Lt. Hold		(Gry-Yel)		Q9		02-7		Org-Blu	FL-11629	BLUE
		Lwr. Rt. Power		(Blu-Yel)	Q4			02-13	Blu-Vio		I	
	Lower Right Flipper	Lwr. Rt. Hold		(Blu-Yel)		Q11		02-11		Org-Grn	FL-11629	BLUE
		Up Lt. Power		Gry-Yeb	Q1			02-3	Blk-Blu			
	Upper Left Flipper	Up LI. Hold		Gry-Yel)		Q 5		12-1		Org-Gry	FL-11722	GREEN
		Up Rt. Power		(Blu-Yel)	022			02-6	Blk-Yel			
	Upper Right Flipper	Up Rt. Hold		(Blu-Yel)		Q7	J9	02-4		Org-Vio	FL-11722	GREEN

J1XX = Power Driver Board; J9XX - Fliptronic II Board; 24-6549 = #44 Bulb; 24-8704 = #89 Bulb; 24-8788 = #555 Bulb; 24-8802 = #906 Bulb

SOLENOID/FLASHER LOCATIONS

	Coil/Flasher	Assembly			Coil/Flasher	Assembly	
hem.	Number	Number	Description	hem	Number	<u>Number</u>	Description
01	AE-26-1200	A-17258	Right Popper	16	AE-26-1500	A-17505	† Lockup Release
02	AE-24-900	A-17180	Left Popper	17	14-7990	A-17623	Wheel Motor
03	AE-23-800	A-14525	Ball Shooter	18	24-8802	A-12336-1	Upper Playfield Left (2)
04	AE-26-1200	A-17251	Animal Diverter		24-8704	A-17803	
05	AE-26-1500	A-16765	Trough Coil	19	24-8704	A-17803	Right Loop Backbox (2)
06	AE-23-800	A-17505	† Lockup Kicker	20	24-8802	A-12336-1	Fight Bluto (2)
07		B-16086-1	* Knocker		24-8704	A-17803	
08	AE-23-800	A-17774	Escalator Popper	21	24-8704	A-17803	Left Loop Bkbx. (2)
09	AE-26-1200	A-9415-2	Left Jet	22	24-8802	A-12336-1	Animal Ramp (3)
10	AE-26-1200	A-9415-2	Right Jet		24-8802	A-17626-4	
11	AE-26-1200	A-9415-2	Center Jet	23	24-8802	A-12336-1	Skill Wheel (2)
12	AE-26-1200	A-17809	Left Slingshot	24	24-8802	C-13337	R. Popper Bkbx, Ex.B. (2)
13	AE-26-1200	A-17809-1	Right Slingshot	25			Not Used
14	A-14406	A-17796	Left Gate	26	24-8704	A-17803	Ramp Jackpot (2)
15	A-14406	A-17796	Right Gate	27	24-8704	A-17803	Lockjaw Arrow (3)
				28	24-8802	A-12336-1	Escalator Bkbx. Turtle (2)

SOLENOID LOCATIONS Continued



*FL-11629 (Blue) A-15849-L-2 Lower Left Flipper
*FL-11629 (Blue) A-15849-R-2 Lower Right Flipper
*FL-11722 (Green) A-16976-L-1 Upper Left Flipper
*FL-11722 (Green) A-16976-R Upper Right Flipper

Squere indicates coil, P.C.B. or Magnet
Circle indicates flesher

*Not Shown †Located Under Playfield

24-6549 = #44 Bulb 24-6704 = #89 Bulb 24-8768 = #555 Bulb 24-8802 = #966 Bulb

UPPER PLAYFIELD PARTS LIST

60

61

62

63

64

65

66

67

68

69

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71

72

73

75

76

77

81

82

85

89

90

91

92

93

A-17639

A-17623 A-17783 A-17402

A-17626-5

02-4765-7

* 01-12214

A-17339

A-17801

A-17811 A-17809-1 A-14525

01-9211

A-17626-8

01-12286

A-17577-2

01-11806

20-9734-5

20-9734-5

A-16765

01-12448

A-17577-1

A-17809

01-12166

01-11805

* 01-9510

A-17906

02-4968-1

12-7183

A-17251

A-17626-2

02-4724

* 12-6227

A-17560

01-11814

02-4903

01-12305

02-12417

01-12461

02-4020

02-4436-25 A-17811

Decal Ring Cover Assembly Wheel Motor Assembly Target & Cable Assembly

Wheel Drop Guide Assembly

Kicker Count Switch Assembly

Slingshot Kicker Assembly Coil & Bracket Assembly

Playfield Hanger Bracket

Playfield Plastic Assembly

Flipper & Shaft Assembly

Outhole Ball Trough Assy.

Flipper Guide & Plastic Assy.

Slingshot Kicker Assembly

Playfield Plastic Assembly

5 Position Kicker Assembly

Coil & Bracket Assembly

Entry Ramp Rollover

Coil & Bracket Assembly Ramp Ball Deflector

Flipper Guide & Plastic Assy.

Playfield Plastic Assembly

Mounting Post 3.44

Gate Assembly

Kicker Assembly

Right Playfield Rail A-15849-R-2 Flipper Assembly Complete

A-15849-L-2 Flipper Assembly Complete Flipper & Shaft Assembly

Ball Guide

Standoff 1 9/16"

Left Playfield Rail

Switch Assembly Standoff 2.94"

Ball Guide Wire

Hair Pin Clip

Ball Guide

Ball Guide

Ball Guide

Mounting Post

Cover Bracket

Support Post (8)

Post Adjustment Plate

Ball Guide

Post Adjustment Plate

item	Part	Description
	Number	
1	01-12173	Ball Guide
2	A-17567	Upper Level Drain Assembly
3	A-17648	Left Cover Assembly
4	A-16976-L-1	Flipper Assembly Complete
	20-9732-5	Small Flipper & Shaft
5	A-16976-R	Flipper Assembly Complete
•	20-9732-5	Small Flipper & Shaft Right Cover Assembly
6 7	A-17649 01-11815	Ball Guide
8	* A-17838	Stud Plate Assembly (5)
9	01-11816	Ball Guide
10	01-12171	Ball Guide
11	A-17647	Light Cover Assembly
12	A-17736	Exit Ramp Assembly
13	A-17626-4	Playfield Plastic Assembly
14	A-17226-4	Stationary Target, Red
15	03-8947	Upper Playfield Window
16	A-17813-1	Rollover Switch Assembly
17 18	A-17403 A-17462	Upper Right Exit Assembly Upper Level Ramp Assembly
19	A-17402 A-17817	Light & Bracket Assembly
20	A-17813	Rollover Switch Assembly
21	A-17738	Opto Bracket Assembly
22	A-17737	Opto Bracket Assembly
23	A-17769	Upper Ramp Deflector Assy.
24	02-4765-6	Mounting Post 3.13*
25	A-17180	Ball Popper Assembly
	01-12460	Cover, Left Ball Popper
26	02-4176-30 02-4176-54	Standoff 1 7/8* Standoff 3 3/16*
27	02-4176-54	Standoff 3 3/16"
28	02-4968-1	Standoff 2.94"
29	01-11818	Ball Guide
30	02-4176-30	Standoff 1 7/8*
	02-4765-8	Mounting Post 4.31*
31	01-12133	Bracket, Left Drop Ramp
32	01-11160	Ball Deflector Bracket
33	A-17797-2	Special Ball Gate Assembly
24	A-17796 A-17797-1	Ball Gate Actuator Assembly Special Ball Gate Assembly
34	A-17796	Ball Gate Actuator Assembly
35	01-12387	Ball Guide
36	03-8318-16	Light Hood, Yellow
37	01-11921	Ramp, Left Ball Popper
38	A-9415-2	Jet Bumper Coil Assembly
	B-9414-3	Jet Bumper Assembly
	B-12030-2	Jet Bumper Switch Assembly
	03-8254-10	Jet Bumper Cap, Blue Playfield Plastic Assembly
39 40	A-17626-7 12-6466-5	Ball Guide Wire 1 1/4"
41	01-11973	Ramp, Right Ball Popper
42	A-17258	Ball Popper Assembly
43	A-17129	Back Rail Assembly
	A-17401	Back Panel Assembly
44	A-17777	Guide Ramp Assembly
45	A-17536	Opto Bracket Assembly
46	02-4765-6	Mounting Post 3.13"
47	01-11817	Ball Guide
48	02-4968-1	Standoff 2.94° Playfield Plastic Assembly
49 50	A-17626-3 * A-17505	Center Ball Lock Assembly
50 51	01-12329	Ball Guide
52	* A-17774	Kicker Coil Assembly
53	02-4765-7	Mounting Post 3.44
54	A-17626-1	Playfield Plastic Assembly

55 56 57

01-12330

A-17895

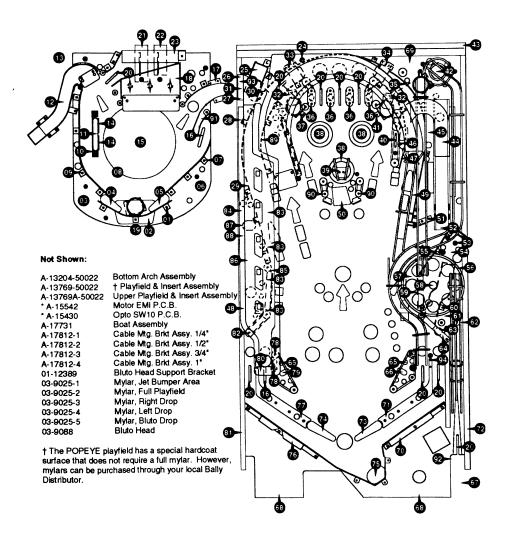
A-17145

Ball Guide

Wheel Ring Assembly

Rotating Plate Assembly

UPPER PLAYFIELD PARTS LOCATIONS

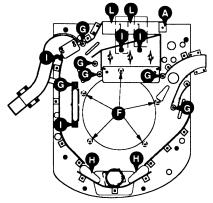


^{*} Located Under Playfield.

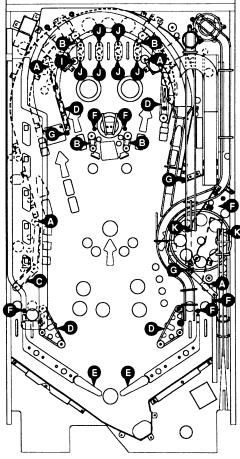
RUBBER PARTS

LOWER PLAYFIELD PARTS

item	Part Number	Description	9
1.	01-9211	Plfd. Hanger Bracket (2 Used)	
2.	A-16765	Outhole Ball Trough Assembly	
3.	A-15849-R-2	Flipper Assembly, Lwr. Right	
4.	01-11781	Leg Support (2 Used)	
5.	A-17811	Kicker Arm (Slingshot) Assy., Right	
	A-17809 10-128	Coil & Bracket Assembly	
6.	A-15542	Spring Motor EMI Assembly	
7.	A-17623	Wheel Motor Assembly	
8.	A-17505	Center Ball Lock Assembly	
9.	A-17600	5-Lamp PC Board Assy.	
10.	A-17749-2	Plfd, Slide Mechanism, Right	
11.	01-11973	Right Ramp-Ball Popper	
12.	A-17258	Ball Popper Assembly	EUUUUUU
13.	A-9415-2	Jet Bumper Coil Assembly	0 0 0
14.	A-17624	3-Lamp PC Board Assy.	
15.	A-17796	Ball Gate Aduator Assembly (2 Used)	
16.	A-17180	Popper Assembly - Left	80 A 1880
17.	01-11921	Left Ramp-Ball Popper	
18.	A-17749-1	Plfd. Slide Mechanism, Left	
19.	A-17251	Coil & Bracket Assembly	
20. 21.	A-17603 A-17602	3-Lamp PC Board Assy. 18-Lamp PC Board Assy.	
22.	A-17811	Kicker Arm (Slingshot) Assy., Left	
22.	A-17809-1	Coil & Bracket Assembly	
	10-128	Spring	
23.	A-15849-L-2	Flipper Assembly, Lwr. Left	
20.	7, 100 10 2 2	, , , , , , , , , , , , , , , , , , , ,	
Lowe	er Playfield Pa	rts on Mini-Playfield:	
	•	·	
24. 25.	A-16976-R A-16976-L-1	Flipper Assembly, Right Flipper Assembly, Left	
25.	A-169/6-L-1	Flipper Assembly, Left	<u>n</u> 45
	25	24	# # # # # # # # # # # # # # # # # # #
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ITEM	PART#	DESCRIPTION O	<u>YT</u>
A.	23-6300	5/16" Ring	5
B.	23-6301	3/4" Ring	4
C.	23-6303	1 1/4" Ring	1
D.	23-6306	2 1/2" Ring	4
E.	23-6519-4	Flipper Ring-Red	2
F.	23-6535	Grommet	13
G.	23-6552	Yellow Sleeve	9
Н.	23-6553-4	Small Flipper Ring	2
l.	23-6556	Black Sleeve	5
J.	23-6641-1	15/64" Ring	6
K.	23-6686	Bumper Pad	2
L.	23-6702	Bumper Plug	2



Underside of Mini-Playfield

Underside of Playfield, Viewed in Raised Position

RAMPS

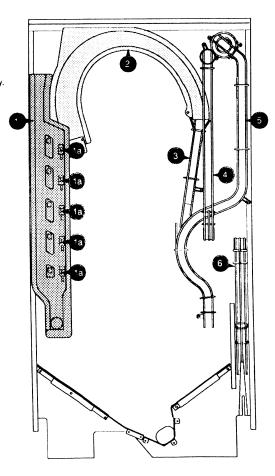
Item Part Number Description

1.	A-17404	Main Ramp Assembly
a)	A-17906	U-Switch Subminiature Assy
2.	A-17177	Ramp Assembly
3.	12-7184	Wire Ramp - Center

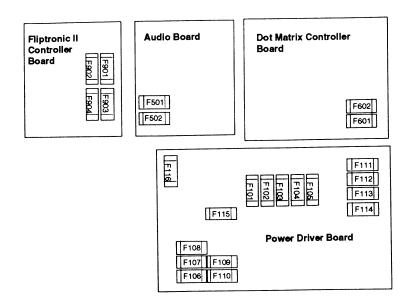
A-17406 Wheel Feeder Wire Ramp Assy.

12-7132 Ramp, Right

5. 6. A-17405 Wire Ramp Chute Assembly



FUSE LIST



Audio	Board
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3A, 250V, S.B. F501 -25V Circuit F502 +25V Circuit 3A, 250V, S.B.

Dot Matrix Controller Board

3/8A, 250V, F.B. F601 +62V Circuit

F602 -113V and -125V Circuits 3/8A, 250V, F.B.

Power Driver Board F101 Left Flipper

3A, 250V, S.B. (Not Used) F102 Right Flipper F103 Solenoid #25-#28 3A, 250V, S.B. (Not Used) 3A, 250V, S.B. F104 Solenoid #9-#16 3A, 250V, S.B. 3A, 250V, S.B. F105 Solenoid #1-#8 F106 G.I. #5 Wht-Vio 5A, 250V, S.B. 5A, 250V, S.B. F107 G.I. #4 Wht-Grn F108 G.I. #3 Wht-Yel 5A, 250V, S.B.

5A, 250V, S.B. F109 G.I. #2 Wht-Org F110 G.I. #1 Wht-Brn 5A, 250V, S.B. 5A, 250V, S.B. F111 Flasher Secondary F112 Solenoid Secondary 7A, 250V, S.B. 5A, 250V, S.B. F113 +5V Logic

F114 +18V Lamp Matrix 8A, 32V, N.B. 3/4A, 250V, F.B. F115 +12V Switch Matrix 3A, 250V, S.B. F116 +12V Secondary

Fliptronic II Controller Board

F901 Upper Right Flipper F902 Upper Left Flipper 3A, 250V, S.B. 3A, 250V, S.B. 3A, 250V, S.B. F903 Lower Right Flipper F904 Lower Left Flipper 3A, 250V, S.B.

Line Filter

8A Domestic Game Foreign Game 5A, S.B.

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