

APRIL 1996 16-10245



C€ 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**

Main 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
1	P.5 Score Histograms
	P.6 Game Time Histograms
	P.7 Time-Stamps
	P.8 All Data
T. Test Menu	
	T.1 Switch Edges
	T.2 Switch Levels
	T.3 Single Switches
	T.4 Solenoid Test
	T.5 Flasher Test
	T.6 General Illumination
	T.7 Sound & Music Test
	T.8 Single Lamps
•	T.9 All Lamps
	T.10 Lamp & Flasher Test
	T.11 Display Test
	T.12 Flipper Test
	T.13 Ordered Lamp Test
	T.14 Lamp Row-Col Test
	T.15 Dip Switch Test
	T.16 Wheel Test
	T.17 Vari Target Test
	T.18 Token Tube Test
	T.19 Light Rope Test
	T.20 3-Bank Drop Target Test
	T.21 Top Trough Test
11.118//W N4	T.22 Empty Balls 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	and a set of the set o
	A.1 Standard Adjustments
	A.2 Feature Adjustments
	A.3 Pricing Adjustments
	A 4 H C T D Adjustments
· ·	A.4 H.S.T.D. Adjustments A.5 Printer Adjustments
l	A.5 FIIIter 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.

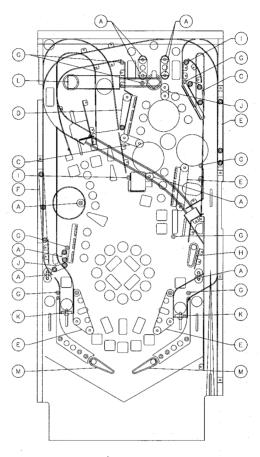
Press Down

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

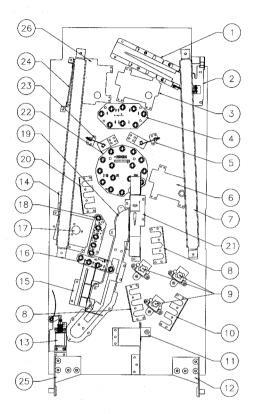
RUBBER RINGS



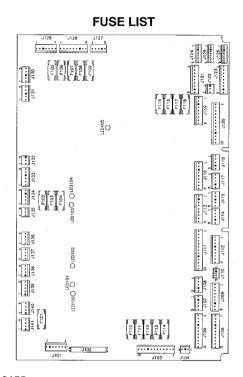
ltem No.	Part Number	Description.	Qty	ltem No.	Part Number	Description.	Qty
Α	23-6300	Rubber Ring 5/16"	14	н	23-6553-4	Small Flipper Ring, Re	d 1
С	23-6302	Rubber Ring 1"	4	1	23-6556	Black Rubber Sleeve	2
D	23-6303	Rubber Ring 1 ¼"	2	J	23-6599	Rubber Ring 7/16"	3
Е	23-6305	Rubber Ring 2"	6	ĸ	23-6686	Round Pad, Blue	2
F	23-6307	Rubber Ring 3"	2	L	23-6702	Bumper Plug, Blue	1
G	23-6535	Rubber Grommet	8	М	23-6773	Flipper Ring, Red	2

LOWER PLAYFIELD PARTS

ltem	Part Number	Description
1	A-19963-3	Outhole Ball Trough Assembly
2	A-21022	Shooter Lane Auto Kicker Assy.
з	A-14876-R-6	Flipper Assembly
4	A-20886	8-Lamp PCB Assembly
5	B-9362-R-3	Coil & Bracket Assembly
6	a-15849-R-1	Flipper Assembly
7	01-14381	Support Bracket (2)
8	A-20892	3-Bank Drop Target Assy. (2)
9	A-9415-2	Jet Bumper Coil Assembly (3)
10	A-20895	3-Bank Target Assembly
11	A-20907	Popper Mtg. Bracket Assembly
12	04-10452.1-1	Slide Bracket, Right
13	A-20882	Diverter Assembly
14	A-21034	Coil & Bracket Assembly
15	A-20851	Vari-Target Assembly
16	A-20888	4-Lamp PCB Assembly
17	A-20911	Spin Disc Assembly
18	A-20890	5-Lamp PCB Assembly
19	A-20922	Under Playfield Trough Assy.
20	A-20896	3-Bank Drop Target Assembly
-21	A-20923	Center Loop Assembly
22	A-20887	16-Lamp PCB Assembly
23	B-9362-L-2	Coil & Bracket Assembly
24	A-2-246	10-Opto PCB Assembly
25	04-10452.1-2	Slide Bracket, Left
26	A-15849-L-7	Flipper Assembly

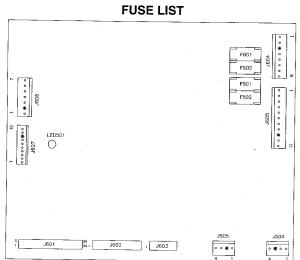


Underside of Playfield, Viewed in Raised Position.



POWER DRIVER BOARD

Loc.	Description	Part Number	Value
F101	Regulated 12V	5731-14531-00	T0.63A, 250v
F102	Solenoids #9 to #16	5731-14530-00	T4.0A, 250V
F103	Solenoids #1-#8	5731-14530-00	T4.0A, 250V
F104	Solenoids #25 to #28	5731-14530-00	T4.0A, 250V
F105	+5V Logic	5731-14530-00	T4.0A, 250V
F106	+18V Lamp Matrix	5731-14530-00	T5.0A, 250V
F107	Flasher Secondary	5731-14530-00	T4.0A, 250V
F108	Solenoid Secondary	5731-14530-00	T6.3A, 250V
F109	Unregulated 12V	5731-14530-00	T4.0A, 250V
F110	G.I. #5 White-Violet	5731-14530-00	T4.0A, 250V
F111	G.I. #4 White-Green	5731-14530-00	T4.0A, 250V
F112	G.I. #3 White-Yellow	5731-14530-00	T4.0A, 250V
F113	G.I. #2 White-Orange	5731-14530-00	T4.0A, 250V
F114	G.I. #1 White-Brown	5731-14530-00	T4.0A, 250V
F115	+50V Flippers	5731-14530-00	T4.0A, 250V
F116	+50V Flippers	5731-14530-00	T4.0A, 250V
F117	+50V Flippers	5731-14530-00	T4.0A, 250V
F118	+50V Flippers	5731-14530-00	T4.0A, 250V



AUDIO VI	DEO BOARD		
Loc.	Description	Part Number	Value
F501	-25V	5731-14532-00	T2.5A. 250V
F502	+25V	5731-14532-00	T2.5A, 250V
F601	+62V	5731-14840-00	T0.315A. 250V
F602	-113V & -125V	5731-14840-00	T0.315A, 250V

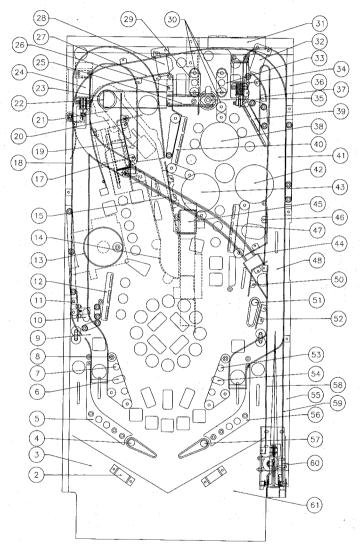
LINE FILTER

Loc.	Part Number	Value
Foreign	5731-14530-00	T4.0A, 250V
Domestic	5731-14046-00	T5.0A, 250V

UPPER PLAYFIELD PARTS

2 01-12624 Lower Arch Mounting Bracket (2) 42 A-9415-2 Jet Bumper Coll Assembly 4 A-15849-L-7 Flipper Assembly Complete A-12753-2 Lug & Diode Assembly 5 A-20981-2 Flipper all Guide Assy, Left 0-34254-9 Jet Bumper Carl, Red 6 A-17811 Singshot Kicker Assembly 23-6710-1 Clear Tubing 1* 7 A-17801 Kicker Court Switch A-12753-2 Lug & Diode Assembly 8 02-4796-26 Standoff 8/32 x 1 5/8* B-9414-3 Jet Bumper Coll Assembly 9 A-20985 Laft Ramp Assembly A-12733-2 Lug & Diode Assembly 9 A-20985 Sindoff 8/32 x 1 5/8* B-9414-3 Jet Bumper Cap, Clear 10 A-16713 V Pad Kicker Assembly 42 12-7342.2 Center Wire Ramp 10 A-20985 Ball Guide & Opto Assembly 44 12-7342.2 Center Wire Ramp 12 A-20986 Ball Guide 50 A-11407 Ball Guide 19 14 A-20982 Bank Drop Target Assembly	item No.	Part Number	Description	ltem No.	Part Number	Description
3 A-20246 ** 10 Opto P.C.B. wiErackets A-12030-3 Jet Bumper Leaf Switch Assy. 4 A-15849-L-7 Flipper Assembly Complete A-12753-2 Lug & Diode Assembly 5 A-20981-2 Flipper MShaft, Yellow D-34254-9 Jet Bumper Car, Red 5 A-20981-2 Coll & Bracket Assembly 23-6710-1 Clear Tubing 1* 10 A-17801 Kicker Count Switch A-12753-2 Lug & Diode Assembly 6 A-17801 Kicker Count Switch A-12753-2 Lug & Diode Assembly 6 A-17801 Kicker Count Switch A-12753-2 Lug & Diode Assembly 7 A-16713 V Pad Kicker Assembly 24-6710-1 Clear Tubing 1* A-20980 Single Opto Assembly 44 12-7344.2 Center Wire Ramp A-20985 Ball Guide A-20981 Single Opto Assembly 45 A-20981 14 A-20985 Ball Guide A Opto Assembly 50 -414307 Ball Guide 14 A-20980 Ball Guide A Sopto Assembly 50 -414307 Ball Guide <td>2</td> <td>01-12624</td> <td>Lower Arch Mounting Bracket (2)</td> <td>42</td> <td>A-9415-2</td> <td>Jet Bumper Coil Assembly</td>	2	01-12624	Lower Arch Mounting Bracket (2)	42	A-9415-2	Jet Bumper Coil Assembly
4 A-15849-L-7 Flipper MSant / Valow B-412753-2 Lug & Diode Assembly 5 A-20981-2 Flipper MSant / Valow B-414-3 Jet Bumper Car, Red 6 A-17811 Singshot Kicker Assembly 23.6710-1 Clear Tubing 1" B-3052-L-2 Coli & Bracket Assembly 23.6710-1 Clear Tubing 1" 10 A-17801 Kicker Count Switch A-12030-3 Jet Bumper Cail Assembly 8 02-4796-26 Standoff 3/22 x 1 5/8" B-9414-3 Jet Bumper Cai, Clear 10 A-16713 V Pad Kicker Assembly 03.8254-13 Jet Bumper Cai, Clear 10 A-20985 Ball Guide & Opto Assembly 44 12.7344.2 Clear Tubing 1" A-20986 Ball Guide & Opto Assembly 45 A-20981 Bank Drop Target Assembly 11 A-20985 Ball Guide & Opto Assembly 50 4-10417 Ball Guide 14 A-20985 Ball Guide 53 A-17801 Kicker Count Switch 14 A-20985 Ball Guide 53 A-14196 *Snoter Gate Assembly <td></td> <td>A-20246</td> <td></td> <td></td> <td>A-12030-3</td> <td>Jet Bumper Leaf Switch Assy.</td>		A-20246			A-12030-3	Jet Bumper Leaf Switch Assy.
20-10290-6 Flipper w/Shaft, Yellow B-4414-3 Jel Bumper Wafer Assy, Red 5 A-20881-2 Flipper Ball Guide Assy, Left Case254-9 Jet Bumper Call Assembly 9 A-17811 Slingshot Kicker Assembly A-3415-2 Jet Bumper Call Assembly 10 A-17801 Kicker Count Switch A-32030-3 Jet Bumper Call Assembly 7 A-17801 Kicker Count Switch A-12753-2 Lug & Diode Assembly 8 A-209562 Left Ramp Assembly A-342030-3 Jet Bumper Carl Assy, Red 9 A-209563 Single Opto Assembly 44 12-7344.2 Center Wire Ramp A-20985 Ball Guide A 20961 * Bank Light Assembly 50 -141307 Ball Guide 11 A-20985 Ball Guide Sontor Gate Assembly 50 -141490 * Shotorer Gate Assembly 12 A-20985 Ball Guide 51 A-15849-R-1 Ball Guide 20-9264-6 Small Fulper Wafer Assembly 13 A-20911 Spin Disk Assembly 50 -154196-R-1 Ball Guide	4	A-15849-L-7	Flipper Assembly Complete		A-12753-2	Lug & Diode Assembly
6 A-17811 Slingshot Kicker Assembly 23-6710-1 Clear Tubing 1" 9-3962-L-2 Coil & Bracket Assembly 43 A-9415-2 Jet Bumper Coil Assembly 7 A-17801 Kicker Count Switch A-12030-3 Jet Bumper Coil Assembly 8 02-4796-26 Lath Ramp Assembly 03-8254-13 Jet Bumper Coil Assembly 9 A-20958 Left Ramp Assembly 03-8254-13 Jet Bumper Coil Assembly 10 A-16713 V Pad Kicker Assembly 44 12-7344.2 Center Wire Ramp A-20989 Single Opto Assembly 44 12-7344.2 Center Wire Ramp A-20980 Ball Guide & Opto Assembly 45 A-20961 * Bank Drop Target Assembly 11 A-20965 Ball Guide Aptopta Assembly 50 A-14196 * Shooter Gate Assembly 12 A-20963 Bank Drop Target Assembly 51 A-15849-R-1 Filipper Assembly Complete 13 A-20921 Center Loop Assembly 51 A-15849-R-1 Filipper MShat, Yellow 14 A-20932 <t< td=""><td></td><td></td><td></td><td></td><td>B-9414-3</td><td></td></t<>					B-9414-3	
6 A-17811 Slingshot Kicker Assembly 23-6710-1 Clear Tubing 1" 9-3962-L-2 Coil & Bracket Assembly 43 A-9415-2 Jet Bumper Coil Assembly 7 A-17801 Kicker Count Switch A-12030-3 Jet Bumper Coil Assembly 8 02-4796-26 Lath Ramp Assembly 03-8254-13 Jet Bumper Coil Assembly 9 A-20958 Left Ramp Assembly 03-8254-13 Jet Bumper Coil Assembly 10 A-16713 V Pad Kicker Assembly 44 12-7344.2 Center Wire Ramp A-20989 Single Opto Assembly 44 12-7344.2 Center Wire Ramp A-20980 Ball Guide & Opto Assembly 45 A-20961 * Bank Drop Target Assembly 11 A-20965 Ball Guide Aptopta Assembly 50 A-14196 * Shooter Gate Assembly 12 A-20963 Bank Drop Target Assembly 51 A-15849-R-1 Filipper Assembly Complete 13 A-20921 Center Loop Assembly 51 A-15849-R-1 Filipper MShat, Yellow 14 A-20932 <t< td=""><td>5</td><td>A-20981-2</td><td>Flipper Ball Guide Assy, Left</td><td></td><td>03-8254-9</td><td>Jet Bumper Car, Red</td></t<>	5	A-20981-2	Flipper Ball Guide Assy, Left		03-8254-9	Jet Bumper Car, Red
10-128 Spring A-12030-3 Jet Bumper Leaf Switch Assy. 7 A-17801 Kicker Court Switch A-12753-2 Lug & Diode Assembly 9 A-20958 Left Ramp Assembly 03-8224-13 Jet Bumper Vafer Assy., Red 9 A-20959 Single Opto Assembly 23-6710-1 Clear Tubing 1" A-20989 Single Opto Assembly 44 12-7344.2 Center Wire Ramp A-20985 Ball Guide & Opto Assembly 45 A-20961 * Bank Lorp Target Assembly 10-128 Spring 46 01-14307 Ball Guide Short Target Assembly 11 A-20965 Ball Cuide & Opto Assembly 47 A-20922 Bank Drop Target Assembly 12 A-20961 Sprin Disk Assembly 50 04-10417 Ball Guide 52 13 A-20981 Vari-Target Assembly 51 04-10445 Ball Guide 53 A-17801 Kicker Count Switch 16 04-104454 Ball Guide 53 A-17811 Singipot Kicker Assembly 12 A-20988 * Left Sign Assembly 52 04-10418 Ball Guide 54		A-17811	Slingshot Kicker Assembly		23-6710-1	
10-128 Spring A-12030-3 Jet Bumper Leaf Switch Assy. 7 A-17801 Kicker Court Switch A-12753-2 Lug & Diode Assembly 9 A-20958 Left Ramp Assembly 03-8224-13 Jet Bumper Vafer Assy., Red 9 A-20959 Single Opto Assembly 23-6710-1 Clear Tubing 1" A-20989 Single Opto Assembly 44 12-7344.2 Center Wire Ramp A-20985 Ball Guide & Opto Assembly 45 A-20961 * Bank Lorp Target Assembly 10-128 Spring 46 01-14307 Ball Guide Short Target Assembly 11 A-20965 Ball Cuide & Opto Assembly 47 A-20922 Bank Drop Target Assembly 12 A-20961 Sprin Disk Assembly 50 04-10417 Ball Guide 52 13 A-20981 Vari-Target Assembly 51 04-10445 Ball Guide 53 A-17801 Kicker Count Switch 16 04-104454 Ball Guide 53 A-17811 Singipot Kicker Assembly 12 A-20988 * Left Sign Assembly 52 04-10418 Ball Guide 54		B-9362-L-2	Coil & Bracket Assembly	43	A-9415-2	Jet Bumper Coil Assembly
8 02-4796-26 Standoff 8/32 x 1 5/8" B-9414-3 Jet Bumper Wafer Assy., Fled 9 A-20958 Left Ramp Assembly 03-8254-13 Jet Bumper Cap, Clear 10 A-16713 V Pad Kicker Assembly 44 12-7344.2 Center Wire Ramp A-20989 Single Opto Assembly 44 12-7344.2 Center Wire Ramp 10-128 Spring 46 01-14307 Ball Guide 50 11 A-20965 Ball Guide & Opto Assembly 47 A-20822 3 Bank Drop Target Assembly 12 A-20961 Spin Disk Assembly 50 04-10417 Ball Guide Shooter Gate Assembly 13 A-20951 Vari-Target Assembly 50 04-10418 Ball Guide 20-9264-6 Smill Flipper wShaft, Yellow 14 A-20988 * Left Sign Assembly 50 4-17811 Ball Guide 51 A-17801 Kicker Assembly 10 42-0488 * Left Sign Assembly 50 A-17811 Ball Guide 50 A-1880-FR-6 Flipper Assembly 51 <td< td=""><td></td><td>10-128</td><td></td><td></td><td>A-12030-3</td><td></td></td<>		10-128			A-12030-3	
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10 A-16713 V Pad Kicker Assembly 23-6710-1 Clear Tubing 1 [±] A-20989 Single Opto Assembly 44 12-7344.2 Center Wire Ramp 10 123 Spring 46 01-14307 Ball Guide 11 A-20985 Ball Guide & Opto Assembly 47 A-20923 3 Bank Drop Target Assembly 12 A-20911 Spin Disk Assembly 50 04-10417 Ball Guide 13 A-20923 Center Loop Assembly 51 A-15849-R-1 Flipper Assembly Complete 15 04-10445.1 Ball Guide 53 A-17811 Ball Guide 53 14 A-20923 Under Playfield Trough Assy. 50 4-10418 Ball Guide 54 16 04-10434 Ball Guide 53 A-17811 Slingshot Kicker Assembly 50 20 A-20982 Under Playfield Trough Assy. 10-128 Spring 10-128 Spring 21 A-20988 * Left Sign Assembly 55 A-15802-P Level & Holder Assembly Eval & Holder Assembly 23 03-9504 Ball Guide 59 <td>8</td> <td>02-4796-26</td> <td>Standoff 8/32 x 1 5/8"</td> <td></td> <td>B-9414-3</td> <td>Jet Bumper Wafer Assy., Red</td>	8	02-4796-26	Standoff 8/32 x 1 5/8"		B-9414-3	Jet Bumper Wafer Assy., Red
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11 A-20965 Ball Guide & Opto Assembly 47 A-20892 3 Bank Drop Target Assembly 12 A-20896 3 Bank Drop Target Assembly 48 A-14196 * Shooter Gate Assembly 13 A-20911 Spin Disk Assembly 50 04-10447 Ball Guide * Shooter Gate Assembly 14 A-20923 Center Loop Assembly 51 A-15849-R-1 Flipper M/Shaft, Yellow 15 04-104451 Ball Guide 53 A-17801 Kicker Count Switch 18 04-10434 Ball Guide 53 A-17801 Kicker Count Switch 19 04-10441.1 Ball Guide 54 A-17811 Singshot Kicker Assembly 20 A-20982 Under Playfield Trough Assy. 10-128 Spring 21 A-20982 Diverter Assembly 55 A-15802-P * Level & Holder Assembly 23 03-9504 Ball Guide 58 04-10415.1 Ball Guide 59 24 A-20882 Diverter Assembly 57 A-14876-R-6 Flipper M/Shaft, Yellow 25 12-7330.2 Wire Popper Tamp 20-10290-6		A-21034	Coil & Bracket Assembly	45	A-20961	* Bank Light Assembly
12 A-20896 3 Bank Drop Target Assembly 48 A-14196 * Shooter Gate Assembly 13 A-20911 Spin Disk Assembly 50 04-10417 Ball Guide 14 A-20923 Center Loop Assembly 51 A-15849-R-11 Flipper Assembly Complete 15 04-10434.1 Ball Guide 53 A-17801 Kicker Count Switch 19 04-10431.1 Ball Guide 54 A-17811 Slingshot Kicker Assembly 20 A-20821 Under Playfield Trough Assy. B-9622-R-3 Coil & Bracket Assembly 21 A-20922 Under Playfield Trough Assembly 55 A-15802-P. * Level & Holder Assembly 23 03-9504 Ball Popper Tube 56 A-20891-1 Flipper Msgembly Complete 25 12-7330.2 Wire Popper Ramp 20-10290-6 Flipper Msgembly Complete 26 01-14306* Ball Guide 59 04-10415.1 Ball Guide 26 A-20116 Flap Gate Assembly 50 A-21022 Shooter Lane Auto Kicker Assy. 26 A-20937 Popper Mig. Bracket Assembly 60 A-21022 <td></td> <td>10-128</td> <td>Spring</td> <td>46</td> <td>01-14307</td> <td>Ball Guide</td>		10-128	Spring	46	01-14307	Ball Guide
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	41	A-20944	Right Ramp Assembly			

UPPER PLAYFIELD PARTS



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SOLENOID/FLASHER TABLE

Sol. No,	Function	Solenoid Type	Volta	ge Conne	ections	Drive Xister		e Conne	ctions	Drive Wire	Solenoid Par Flashlam	
		1	Playfield	Backbox	Cabinet			Backbo	x Cabinet		Playfield	Backbo
01	BIG KICK	High Power	J133-2	l	T	Q72	J116-1			Vio-Brn	AE-24-900	T
02	RIGHT TOKEN TUBE	High Power		J135-2		Q68		J118-2	2	Vio-Red		04-10424
03	VARI TARGET RESET	High Power	J133-2			Q71	J116-4	1		Vio-Org	SM1-26-600	
04	LEFT TOKEN TUBE	High Power		J135-2		Q67		J118-5		Vio-Yei		04-10424
05	BANK KICK	High Power	J133-2			Q70	J116-6			Vio-Grn	AE-23-800	
06	TOP POPPER UP	High Power	J133-2			Q66	J116-7		1	Vio-Blu	AE-24-900	
07	RAMP DIVERTER	High Power	J133-2			Q69	J116-8			Vio-Blk	AE-26-1500	
08	KICKBACK (RAMP)	High Power	J133-2			Q65	J116-9			Vio-Gry	AE-23-800	
09	TROUGH EJECT	Low Power	J133-3			Q44	J113-1			Brn-Blk	AE-26-1500	
	LEFT SLINGSHOT	Low Power	J133-3			Q48	J113-3	T		Brn-Red	AE-26-1200	
11	RIGHT SLINGSHOT	Low Power	J133-3			Q43	J113-4			Brn-Org	AE-26-1200	
12	LEFT JET	Low Power	J133-3			Q47	J113-5			Brn-Yel	AE-26-1200	
13	RIGHT JET	Low Power	J133-3			Q42	J113-6			Brn-Grn	AE-26-1200	
14	TOP JET	Low Power	J133-3			Q46	J113-7			Brn-Blu	AE-26-1200	
15	TOP LEFT 3-BANK	Low Power	J133-3		1	Q41	J113-8			Brn-Vio	AE-26-1200	
16	TOP RIGHT 3-BANK	Low Power	J133-3		1	Q45	J113-9			Brn-Gry	AE-26-1200	
17	BACK LEFT	Flasher	J133-6		1	Q28	J111-1		1	Blk-Brn	#906	
18	JETS & BACK RIGHT (2)	Flasher	J133-6		1	Q32	J111-2		1	Blk-Red	#89, #906	
19	RIGHT MIDDLE	Flasher	J133-6			Q27	J111-3			Blk-Org	#906	
20	RIGHT BOTTOM	Flasher	J133-6			Q31	J111-4			Blk-Yel	#906	
21	LEFT MIDDLE	Flasher	J133-6			Q26	J111-5			Blu-Brn	#906	
22	LEFT BOTTOM	Flasher	J133-6			Q30	J111-6			Blu-Red	#906	
23	LIGHT ROPE 1	Flasher	<u> </u>	J134-5		Q25		J112-8		Blu-Org		04-10440
24	LIGHT ROPE 2	Flasher		J134-5	1	Q29		J112-9		Biu-Yel		04-10440
25	TOP POPPER EJECT	Gen. Purpose	J133-1		1	Q16	J109-1			Blu-Grn	AE-27-1200	
26	TOP LIGHT & MOTOR	Gen. Purpose		J140-2		Q15		J109-2		Blu-Bik		20-10307
27	BOTTOM LEFT 3-BANK	Gen. Purpose	J133-1			Q14	J109-3			Blu-Vio	AE-26-1200	
28	BOTTOM RIGHT 3-BANK	Gen. Purpose	J133-1		1	Q13	J109-4			Blu-Grv	AE-26-1200	1
35	AUTO PLUNGER	High Power	J119-8,9			Q81	J120-3			Yel-Gry	AE-23-800	
36	LOCK UP RELEASE	Low Power	J119-8,9			Q83	J120-1			Org-Gry	AE-26-1200	
37	AUX. LAMP ENABLE	oL.P.D.C.		J138-2	1			J110-1		Brn-Wht		A-20909
38	AUX. LAMP CLOCK	pL.P.D.C.		J138-2	1			J110-3		Org-Wht		A-20909
39	AUX. LAMP DATA 1	pL.P.D.C.		J138-2				J110-4		Yel-Wht		A-20909
40	AUX. LAMP DATA 2	pL.P.D.C.		J138-2				J110-5		Grn-Wht		A-20909
	General Illumination											
	ILLUMINATION STRING 1	G.I.	J105-1	J106-1	1	Q5	J105-7	J106-7	1	Wht-Brn	#44	#555
02	**AUX. LAMP 1 POWER	G.I.				Q4		J106-8		Wht-Org		#555
	ILLUMINATION STRING 3	G.I.	J105-3	J106-3		Q3	J105-9	J106-9		Wht-Yel	#44	#5555
	**AUX. LAMP 2 POWER	G.I.				Q2		J106-10		Wht-Grn		#555
	**AUX. LAMP 3 POWER	G.I.			h	Q1		J106-1		Wht-Vio		#555
	Flipper Circuits		Volta	ae	Drive		Drive		Drive Wir		Coil	Coil
			Connec		Transisto	ors	Connect		Colors		Part No.	Color
			Playfi		ower Ho		Playfie		ower Hold			
29		Lwr. Rt. Power	J119-1 (R	ed-Grn)C	90		J120-1		el-Grn		1	
30	Lower Right Flipper	Lwr. Rt. Hold	J119-1 (R		Q9	2	J120-1		Org-	-Grn I	≠L-20867	WHITE
31	· · · · · · · · · · · · · · · · · · ·	Lwr. Lt. Power	J119-4 (R	ted-Blu) C	87		J120-		el-Blu			
32	Lower Left Flipper	Lwr. Lt. Hold	J119-4 (R		Q8	9	J120-		Org	Blu	L-20867	WHITE
33			J119-6 (R				J120-		el-Vio	- <u>-</u> - '		
34	Upper Right Flipper	Upr. Rt. Hold	J119-6 (R		Q8	6	J120-		Org	Vio	L-11753	ELLOW
35		Upr. Lt. Power					J120-		el-Gry		SEE	ABOVE
	Inner Left Elippor		1110.8 /0		0	^	1120		Oracij		OFF	ADOVE

 33
 Upr. Rt. Hower J 119-5 (Hec-Vio) Q84
 J120-6 h

 34 Upper Right Flipper
 Upr. Rt. Hower J 119-5 (Hec-Vio) Q86
 J120-6 h

 35
 Upr. Rt. Hower J 119-8 (Hec-Vio) Q86
 J120-4 h

 36 Upper Left Flipper
 Upr. Lt. Power J 119-8 (Hec-Gr) Q81
 J120-3 h

 36 Upper Left Flipper
 Upr. Lt. Hold J 119-8 (Hec-Gr) Q81
 J120-4 h

 J1xx = Power Driver Board; 24-6549-#44 buit; 24-8764=#89 buib; 24-8768=#555 buib; 24-8802=#906 buib
 **These G.I. strings do not brighten and dim, they are always ON.

 pL.P.D.C. = Low Power Device Controls
 ELW
 Power Source
 Controls

SOLENOID/FLASHER LOCATIONS

Org-Gry

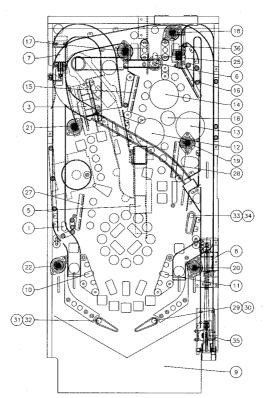
SEE

ABOVE

ltem	Coil/	Assy.	Description	Item	Coil/	Assy.	Description
No.	Flasher No.	Number		No.	Flasher No.	Number	
01	AE-24-900	A-21034	BIG KICK	09	AE-26-1500	A-19963-3	TROUGH EJECT
02	04-10424	A-20925	* RIGHT TOKEN TUBE	10	AE-26-1200	B-9362-L-2	LEFT SLINGSHOT
03	SM1-26-600	A-20916	VARI TARGET RESET	11	AE-26-1200	B-9362-R-3	RIGHT SLINGSHOT
04	04-10424	A-20925	* LEFT TOKEN TUBE	12	AE-26-1200	A-9415-2	LEFT JET
05	AE-23-800	A-20923	BANK KICK	13	AE-26-1200	A-9415-2	RIGHT JET
06	AE-24-900	A-20919	TOP POPPER UP	14	AE-26-1200	A-9415-2	TOP JET
07	AE-26-1500	A-20882	RAMP DIVERTER	15	AE-26-1200	A-20892	TOP LEFT 3-BANK
08	AE-23-800	A-20959	KICKBACK (RAMP)	16	AE-26-1200	A-20895	TOP RIGHT 3-BANK

*Located in Backbox

SOLENOID/FLASHER LOCATIONS



ltem	Coil/	Assy.
No.	Flasher No.	Number.
17	24-8802	A-20958
18	24-8802	A-20944
	24-8704	A-17984
19	24-8802	A-20944
20	24-8802	A-20944
21	24-8802	A-20958
22	24-8802	A-20958
23	04-10440	90003-BB
24	04-10440	90003-BB
25	AE-27-1200	A-20920
26	20-10307	90003-BB
27	AE-26-1200	A-20896
28	AE-26-1200	A-20892
35	AE-23-800	A-21022
36	AE-26-1200	A-20935
37		A-20909
38		A-20909
39		A-20909
40		A-20909

Description
BACK LEFT JETS & BACK RIGHT (2)
RIGHT MIDDLE RIGHT BOTTOM LEFT MIDDLE LEFT MIDDLE LIGHT ROPE 1 · LIGHT ROPE 1 · LIGHT ROPE 1 · DOP DOPER EJECT · TOP LIGHT & MOTOR BOTTOM LEFT 3-BANK BOTTOM RIGHT 3-BANK AUTO PLUNGER LOCK UP RELEASE · AUX LAMP ENABLE · AUX LAMP CLOCK · AUX LAMP DATA 1 · AUX LAMP DATA 1

General Illumination Circuit Item No. Description

m No.	Description	Bulb No.	
01	ILLUMINATION STRING 1	#44, #555	G.I. STRING 1
02	AUX, LAMP 1 POWER	#555	G.I. STRING 2
03	ILLUMINATION STRING 3	#44, #555	G.I. STRING 3
04	AUX. LAMP 2 POWER	#555	G.I. STRING 4
05	AUX. LAMP 3 POWER	#555	G.I. STRING 5

Flipper Coils

Item No.	Coil No.	Color	Assy. No.	Description
29 & 30	FL-20867	WHITE	A-14876-R-6	LOWER R FLIPPER
31 & 32	FL-20867	WHITE	A-15849-L-7	LOWER L FLIPPER
33 & 34	FL-11753	YELLOW	A-15849-R-1	UPPER R. FLIPPER

* Located in Backbox

SWITCH MATON

SWITCH M.							W	'hite — 🕨	► <u></u>	Green
Dedicated Grounded Switches	Column	1 Green- Brown J206-1 U20-18	2 Green- Red J206-2 U20-17	3 Green- Orange J206-3 U20-16	4 Green- Yellow J206-4 U20-15	5 Green- Black J206-5 U20-14	6 Green- Blue J206-6 U20-13	7 Green- Violet J206-7 U20-12	8 Green- Gray J206-9 U20-11	Flipper Grounded Switches
Orange-Brown J205-1 U17-5 Left Coin Chute D1	White- 1 Brown J208-1 U18-11	TP TROUGH (ROOF)	SLAM TILT 21	TROUGH EJECT 31	KICKBACK	(A)LARM STANDUP 51	TOP LEFT 3-BANK TOP 81	BOTTOM LEFT 3-BANK TOP 71	LEFT TOKEN LEVEL	Black-Green J208-13 Lower Right Flipper EOS F1
Orange-Red J205-2 U17-7 Center Coin Chute D2	White- 2 Red J208-2 U18-9	TP TROUGH (VARI) 12	COIN DOOR CLOSED 22	TROUGH BALL 1 32	LEFT BIG KICK 42	A(L)ARM STANDUP 52	TOP LEFT 3-BANK MIDDLE 62	BOTTOM LEFT 3-BANK MIDDLE 72	RIGHT TOKEN LEVEL 82	Blue-Violet J212-12 Lower Right Flipper Opto F2
Orange-Black J205-3 U17-11 Right Coin Chute D3	White- 3 Orange J208-3 U18-5	START BUTTON	NOT USED 23	TROUGH BALL 2 33	TOKEN CHUTE JAM 43	AL(A)RM STANDUP 53	TOP LEFT 3-BANK BOTTOM 63	BOTTOM LEFT 3-BANK BOTTOM	RAMP ENTRANCE	Black-Blue J208-12 Lower Left Filipper EOS F3
Orange-Yellow J205-4 U17-9 4th Coin Chute D4	White- 4 Yellow J208-4 U18-7	PLUMB BOB TILT 14		TROUGH BALL 3 34	LEFT JET 44	ALA(R)M STANDUP	TOP RIGHT 3-BANK BOTTOM 64	BOTTOM RIGHT 3-BANK BOTTOM 74	RAMP MADE 84	Blue-Gray J212-11 Lower Left Filipper Opto F4
Orange-Green J205-6 U16-9 Normel Yest Nuccion Function Ser Credits Esc D5	White- 5 Green J208-5 U19-11	RIGHT ORBIT 15	UPPER Right FLIP Rollover 25	TROUGH BALL 4 35	RiGHT JET 45	ALAR(M) STANDUP	TOP RIGHT 3-BANK MIDDLE 65	BOTTOM RIGHT 3-BANK MIDDLE 75	WHEEL CHANNEL A 85	Black-Violet J208-11 Upper Right Flipper EOS F5
Drange-Blue J205-7 U16-11 Jernau Test Juncton Funcion Vol Down Down D6	White- 6 Blue J208-7 U19-9	LEFT OUTLANE 16	LEFT RETURN 26	LOCKUP 1 FRONT 36	TOP JET 46	VARI TARGET C 56	TOP RIGHT 3-BANK TOP 66	BOTTOM RIGHT 3-BANK TOP 76	WHEEL CHANNEL B 86	Black-Yallow J212-10 Upper Right Flipper Opto F6
Drange-Violet J205-8 U16-7 Jornai Test Junction Process Vol Up Up D7	White- 7 Violet J208-8 U19-5	RIGHT OUTLANE 17	RIGHT RETURN 27	LOCKUP 2 REAR 37	LEFT SLINGSHOT	VARI TARGET B 57	TOP LEFT LANE 67	BANK KICKOUT 77	NOT USED 87	Black-Gray J208-10 Upper Left Flipper EOS F7
Drange-Gray 1205-9 U16-5 Iomai Function Segin Test Enter D8	White- 8 Gray J208-9 U19-7	BALL SHOOTER 18	LEFT ORBIT 28	NOT USED 38	RIGHT SLINGSHOT 48	VARI TARGET A 58	TOP POPPER 68	TOP RIGHT LANE 78	NOT USED 88	Black-Blue J212-9 Upper Left Flipper Opto F8

J2XX = CPU Board; = Opto, Typically Closed

> SWITCH LOCATIONS 31

> > 32

33

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35

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ltem		Description
No.	No.	
F1	SW-1A-194	Lower Right Flipper EOS
F2	A-17316	*Lower Right Flipper Cabinet
F3	SW-1A-194	Lower Left Flipper EOS
F4	A-17316	*Lower Left Flipper Cabinet
F5	SW-1A-194	Upper Right Flipper EOS
F6	A-17316	*Upper Right Flipper Cabinet
F7	,	Not Used
F8		Not Used
11	5647-12693-26	Tp Trough (Roof)
12	5647-12693-26	Tp Trough (Vari)
13	20-9663-16	Start Button
14	04-10346	*Plumb Bob Tilt
15	5647-12693-19	Right Orbit
16	5647-12693-19	Left Outlane
17	5647-12693-19	Right Outlane
18	5647-12693-65	Ball Shooter
21	A-17195-1	*Slam Tilt
22	5643-09288-00	*Coin Door Closed
23		Not Used
24	5643-09112-00	*Always Closed
25	5647-12693-19	Upper Right Flip Rollover
26	5647-12693-19	Left Return
27	5647-12693-19	Right Return
28	20-10293	Left Orbit

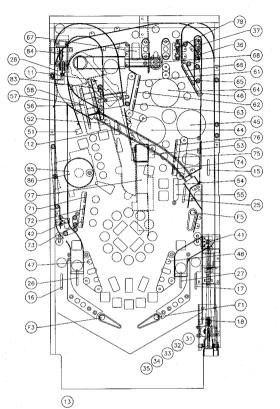
Item Switch Part

Description No. No. 31 A-18617-1 Trough Eject (LED) A-18618-1 (Trans.) A-18617-1 Trough Ball 1 (LED) (Trans.) Trough Ball 2 (LED) A-18618-1 A-18617-1 (Trans.) Trough Ball 3 (LED) A-18618-1 A-18617-1 (Trans.) Trough Ball 4 (LED) A-18618-1 A-18617-1 A-18618-1 (Trans.) Lockup 1 Front (LED) A-16908 A-16909 (Trans.) A-16908 Lockup 2 Rear (LED) A-16909 (Trans.) Not Used A-16908 Kick Back (LED) (Trans.) Left Big Kick (LED) A-16909 A-16908 (Trans.) *Token Chute Jam (LED) A-16909 A-16908 A-16909 (Trans.) Left Jet SW-11A-37-1 SW-11A-37-1 SW-11A-37-1 SW-11A-37-1 Right Jet Top Jet

*Not Shown

† Located Under Playfield

SWITCH LOCATIONS CONTINUED



Item	Switch Part	Description
No.	No.	
47	SW-1A-114	Left Slingshot (kicker)
	SW-1A-120	(score)
48	SW-1A-114	Right Slingshot (kicker)
	SW-1A-120	(score)
51	A-18530-6	(A)LARM Standup
52	A-18530-6	A(L)ARM Standup
53	A-20976-6	AL(A)RM Standup
54	A-17799-6	ALA(R)M Standup
55	A-17799-6	ALAR(M) Standup
56	A-20906	Vari Target C
57	A-20906	Vari Target B
58	A-20906	Vari Target A
61	A-13609	Top Left 3-Bank Top
62	A-13609	Top Left 3-Bank Middle
63	A-13609	Top Left 3-Bank Botton
64	A-13609	Top Right 3-Bank Botto
65	A-13609	Top Right 3-Bank Midd
66	A-13609	Top Right 3-Bank Top
*Not	Shown	

shot (kicker)	
Standup	
tC	
t B	
t A	
-Bank Top	
Bank Middle	
-Bank Bottom	
3-Bank Bottom	
3-Bank Middle	

item	Switch Part
No.	No.
67	20-10293
68	5647-12693-15
71	A-13609
72	A-13609
73	A-13609
74	A-13609
75	A-13609
76	A-13609
77	5647-12693-26
78	20-10293
81	20-10301
82	20-10301
83	5647-12693-21
84	5647-12693-11
85	A-20952
86	A-20952

Description

Top Left Lane Top Popper Bottom Left 3-Bank Top Bottom Left 3-Bank Middle Bottom Left 3-Bank Bottom Bottom Right 3-Bank Bottom Bottom Right 3-Bank Middle Bottom Right 3-Bank Top Bank Kickout Top Right Lane *Left Token Level *Right Token Level Ramp Entrance Ramp Made Wheel Channel A Wheel Channel B

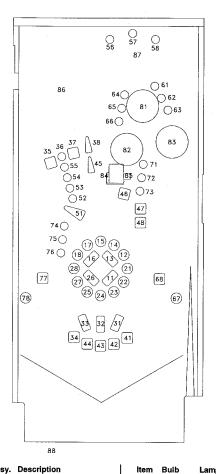
÷	AMP MA						Yellow	/ (B+)	
`	Column	1	2	3	4	5	6	7	8
	\mathbf{i}	Yellow-	Yellow-	Yellow-	Yellow-	Yellow-	Yellow-	Yellow-	Yellow-
		Brown	Red	Orange	Black	Green	Blue	Violet	Gray
		J121-1	J121-2	J121-3	J121-4	J121-5	J121-6	J121-7	J121-9
	Row	Q96	Q100	Q95	Q99	Q94	Q98	Q93	Q97
	Red-		CENTER	ARMOR	BONUS		TOP RIGHT	BOTTOM B.	
1	Brown	LITE	TIMER	CAR	5X +	WHEEL	3-BANK	3-BANK	TOP JET
	J125-1 Q104	DEPOSIT	"15"	CELLAR	OUTLANE	ARROW	TOP	TOP	(YELLOW)
_		11	21	31	41	51	61	71	(122000)
	Red-	CENTER	CENTER	ARMOR			TOP RIGHT	BOTTOM R.	
2	Black	TIMER	TIMER	CAR	BONUS	LITE	3-BANK	3-BANK	LEFT JET
	J125-2 Q108	"10"	"20"	ROOF	5X	OUTLANES	MIDDLE	MIDDLE	(CLEAR)
	Bed-	12	22	32	42	52	62		1
			CENTER	ARMOR			TOP RIGHT	BOTTOM R.	
3	Orange	DISABLE	TIMER	CAR	BONUS	INVISIBLE	3-BANK	3-BANK	RIGHT JET
	J125-4 Q103	COMPUTER	"25"	MAIN	4X	CODE	BOTTOM	BOTTOM	(RED)
-	Bed-	13 CENTER	23	33	43	53	63		
a	Yellow	TIMER	CENTER				TOP LEFT	BOTTOM L.	
4		"5"	TIMER	BONUS	BONUS	EXPLOSIVES	3-BANK	3-BANK	BANK
	J125-5 Q107	5. 14	"30"	2X	зx		TOP	TOP	LEFT
	Bed-	CENTER	24 CENTER	34	44	54	64	74	
5	Green	TIMER	TIMER	(4)1 4 514	D 4440	NOTE	TOP LEFT	BOTTOM R.	
	J125-6 Q102	"0"	"35"	(A)LARM	RAMP	TO	3-BANK	3-BANK	BANK
	3120-0 (2102	15	30 25	STANDUP 35	LOCK	TELLER	MIDDLE	MIDDLE	RIGHT
-	Red-		20	35	45	55 TOP	50 TOP LEFT	75 BOTTOM R	
5	Blue	LITE	CALL	ATM	AL(A)RM	LEFT	3-BANK		140
	J125-7 Q106	LOCK	GUARD	CARD	STANDUP	LANE	BOTTOM	3-BANK	VARI
	0.207 0.100	16	25	36	STANDOF 46	LANE 56	BOTTOM	BOTTOM 76	BREAK IN
	Red-	CENTER	CENTER			TOP	RIGHT	/8	
7	Violet	TIMER	TIMER	A(L)ARM	ALA(R)M	MIDDLE	"EXTRA	LEFT	ROOF
	J125-8 Q101	"55"	"45"	STANDUP	STANDUP	LANE	TIME	RETURN	BREAK IN
		17	27	37	47	57	67	77	
	Red-	CENTER	CENTER			TOP		LEFT	
3	Gray	TIMER	TIMER	RAMP	ALAR(M)	RIGHT	RIGHT	"EXTRA	START
	J125-9 Q105	"50"	"40"	JACKPOT	STANDUP	LANE	RETURN	TIME"	BUTTON
		18 river Board	28	38	48	58	68	78	8

LAMP LOCATIONS

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ltem	Bulb	Låmp	Description	Item	Bulb	Lamp	Description
No.	No.	Assy. No		No.	No.	Assy. No	
11	24-8768	A-20887	Lite Deposit	41	24-8768	A-20886	Bonus 5X + Outlane
12	24-8768	A-20887	Center Timer "10"	42	24-8768	A-20886	Bonus 5X
13	24-8768	A-20887	Disable Computer	43	24-8768	A-20886	Bonus 4X
14	24-8768	A-20887	Center Timer "5"	44	24-8768	A-20886	Bonus 3X
15	24-8768	A-20887	Center Timer "0"	45	24-6549	A-17807	Ramp Lock
16	24-8768	A-20887	Lite Lock	46	24-6549	A-17835	AL(A)RM Standup
17	24-8768	A-20887	Center Timer "55"	47	24-6549	A-17835	ALA(R)M Standup
18	24-8768	A-20887	Center Timer "50"	48	24-6549	A-17835	ALAR(M) Standup
21	24-8768	A-20887	Center Timer "15"	51	24-8768	A-20888	Wheel Arrow
22	24-8768	A-20887	Center Timer "20"	52	24-8768	A-20888	Lite Outlanes
23	24-8768	A-20887	Center Timer "25"	53	24-8768	A-20888	Invisible Code
24	24-8768	A-20887	Center Timer "30"	54	24-8768	A-20888	Explosives
25	24-8768	A-20887	Center Timer "35"	55	24-8768	A-20888	Note to Teller
26	24-8768	A-20887	Call Guard	56	24-6549	A-17835	Top Left Lane
27	24-8768	A-20887	Center Timer "45"	57	24-6549	A-17807	Top Middle Lane
28	24-8768	A-20887	Center Timer "40"	58	24-6549	A-17835	Top Right Lane
31	24-8768	A-20886	Armor Car-Cellar	61	24-6549	A-17835	Top Right 3-Bank Top
32	24-8768	A-20886	Armor Car-Roof	62	24-6549	A-17807	Top Right 3-Bank Middle
33	24-8768	A-20886	Armor Car-Main	63	24-6549	A-17835	Top Right 3-Bank Bottom
34	24-8768	A-20886	Bonus 2X	64	24-6549	A-17835	Top Left 3-Bank Top
35	24-8768	A-20888	(A)LARM Standup	65	24-6549	A-17807	Top Left 3-Bank Middle
36	24-8768	A-20888	ATM Card	66	24-6549	A-17835	Top Left 3-Bank Bottom
37	24-8768	A-20888	A(L)ARM Standup	67	24-6549	A-17835	Right "Extra Time"
38	24-8768	A-20888	Ramp Jackpot	68	24-6549	A-17835	Right Return
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LAMP LOCATIONS CONTINUED



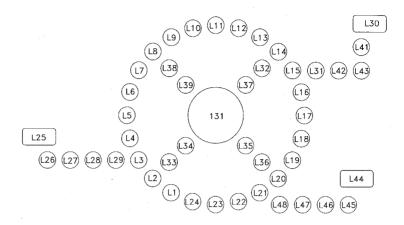
ltem	Bulb	Lamp Ass
No.	No.	No.
71	24-6549	A-17835
72	24-6549	A-17807
73	24-6549	A-17835
74	24-6549	A-17835
75	24-6549	A-17807
76	24-6549	A-17835
77	24-6549	A-17835
78	24-6549	A-17835
81	24-8768	B-9414-3
82	24-8768	B-9414-3

Bottom Right 3-Bank Top Bottom Right 3-Bank Middle Bottom Right 3-Bank Bottom Bottom Left 3-Bank Top Bottom Left 3-Bank Middle Bottom Left 3-Bank Bottom Left Return Left "Extra Time" Top Jet (Yellow) Left Jet (Clear)

Item Bulb		Lamp Assy.	Description		
No.	No.	No.			
83	24-8768	B-9414-3	Right Jet (Red)		
84	24-6549	04-10083	Bank Left		
85	24-6549	04-10083	Bank Right		
86	24-6549	A-16041	Vari Break In		
87	24-6549	A-16041	Roof Break In		
88		20-9663-16	Start Button		

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

LAMP LOCATIONS CONTINUED



Backbox Lamps

ltem No.	Bulb No.	Lamp Assy. No.	Description	ltem No.	Buib No.	Lamp Assy. No.	Description
L1	24-8768	A-20909	Backbox Lamp	L24	24-8768	A-20909	Backbox Lamp
L2	24-8768	A-20909	Backbox Lamp	L25	24-8768	A-20909	Backbox Lamp
L3	24-8768	A-20909	Backbox Lamp	L26	24-8768	A-20909	Backbox Lamp
L4	24-8768	A-20909	Backbox Lamp	L27	24-8768	A-20909	Backbox Lamp
L5	24-8768	A-20909	Backbox Lamp	L28	24-8768	A-20909	Backbox Lamp
L6	24-8768	A-20909	Backbox Lamp	L29	24-8768	A-20909	Backbox Lamp
Ļ7	24-8768	A-20909	Backbox Lamp	L30	24-8768	A-20909	Backbox Lamp
L8	24-8768	A-20909	Backbox Lamp	L31	24-8768	A-20909	Backbox Lamp
L9	24-8768	A-20909	Backbox Lamp	L32	24-8768	A-20909	Backbox Lamp
L10	24-8768	A-20909	Backbox Lamp	L33	24-8768	A-20909	Backbox Lamp
L11	24-8768	A-20909	Backbox Lamp	L34	24-8768	A-20909	Backbox Lamp
L12	24-8768	A-20909	Backbox Lamp	L35	24-8768	A-20909	Backbox Lamp
L13	24-8768	A-20909	Backbox Lamp	L36	24-8768	A-20909	Backbox Lamp
L14	24-8768	A-20909	Backbox Lamp	L37	24-8768	A-20909	Backbox Lamp
L15	24-8768	A-20909	Backbox Lamp	L38	24-8768	A-20909	Backbox Lamp
L16	24-8768	A-20909	Backbox Lamp	L39	24-8768	A-20909	Backbox Lamp
L17	24-8768	A-20909	Backbox Lamp	L40	24-8768	A-20909	Backbox Lamp
L18	24-8768	A-20909	Backbox Lamp	L41	24-8768	A-20909	Backbox Lamp
L19	24-8768	A-20909	Backbox Lamp	L42	24-8768	A-20909	Backbox Lamp
L20	24-8768	A-20909	Backbox Lamp	L43	24-8768	A-20909	Backbox Lamp
L21	24-8768	A-20909	Backbox Lamp	L44	24-8768	A-20909	Backbox Lamp
L22	24-8768	A-20909	Backbox Lamp	L45	24-8768	A-20909	Backbox Lamp
L23	24-8768	A-20909	Backbox Lamp	L46	24-8768	A-20909	Backbox Lamp
				L47	24-8768	A-20909	Backbox Lamp
				L48	24-8768	A-20909	Backbox Lamp

24-8768 = #555 Bulb	
Associated parts for lamps	L1

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NOTES

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WARNINGS & NOTICES

WARNING

FOR SAFETY AND RELIABILITY, substitute parts and equipment modifications are not recommended. Use of Non-BALLY parts or modifications of game circuitry, may adversely affect game play, or may cause injuries.

SUBSTITUTE PART OR EQUIPMENT MODIFICATIONS may void FCC/Canada Type Acceptance.

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NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generated, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

RF Interference Notice

CABLE HARNESS PLACEMENTS and ground strap routing on this game have been designed to keep RF radiation and conduction within levels accepted by the FCC Rules.

TO MAINTAIN THESE LEVELS, reposition harnesses and reconnect ground straps to their original placements, if they become disconnected during maintenance.

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FOR SERVICE... CALL your authorized BALLY Distributor MIDWAY Manufacturing Company 3401 N. California Avenue Chicago, IL 60618

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CAUTION: Transport this game ONLY with hinged backbox DOWN!