MALLY CASE   MAL		OAME	NOTES			04145	OF OTIO	N DID OW	TOU OF			ODU 01 001	K IIIMDEDO	DAM MIDTH OC
March   Marc		GAME	NOTES COMBO ROM 2022-08	A20	A19		1	1		A14	A13			
Second		BALLY -17												DIP-1 TO DIP-4
Mary Standard	000	Black Jack	DIP 17, 18 & 19 ON for free play. Enhanced Switch Test	ON	ON	ON	ON	ON	ON	ON	ON	IN	OUT	OFF
Second						_	_			_				
Marcian   1977   18.4 Color to many control programment   1978   18.4 Color						_				_				
May   1959   1971   1981   1992   1					_	_	-	+	_	_	_			
March   Property   March   Property   March   Property   March   Property   March						_								
MALY SECTION   Process						_				_				
Manual Property   Manual Pro	007	Power Play	DIP 17, 18 & 19 ON for free play. Enhanced Switch Test	ON	ON	ON	ON	ON	OFF	OFF	OFF	IN	OUT	OFF
March   1997 A 20 CH for twee pays   0.7		· · · · · · · · · · · · · · · · · · ·								_	_			
100   Max.					<del></del>					_				DIP-1 TO DIP-4
Company   Comp		<u> </u>												
100   December Now 177   Imper Holman (Parke St. Or Marke St. Or Mar														
Set   Description   Descript					_	_			_	_				
1985   Egyptian Diamason   1995   24 St 20 Old for the page   1995   20 Old   1995   20 Old	013	Cybernaut	DIP 25 & 26 ON for free play	ON	ON	ON	ON	OFF	OFF	ON	OFF	IN	OUT	OFF
Section   Personal Content						_	_							
Particular													-	
100   Priceyon   100						_								
March Control   Note   Diff to Control   Diff to 2 Green   Diff					_	_				_				
Maintennews   Nome ROUNT   Color From   Color   F					_	_			_	_				
Part   Caregor   Part   Caregor   Part   P	020	Fathom	DIP 25 & 26 ON for free play	ON	ON	ON	OFF	ON	OFF	ON	ON	IN	OUT	OFF
See   Peach B   Color   Peach S 20 Not her page   Peach S 20 Not her						_		+		_				
Mary Content   Part S 20 CM for the play   ON														
Part   Control Process   Part   Control   Co						_				_				
Section   Sect					_	_			_	_				
Section   Sect			. ,			_	_			_				
Second State	027	Future Spa		ON	ON	ON	OFF	OFF	ON	OFF	OFF	IN	OUT	OFF
Section   Control   Cont	028	Harlem Globetrotters	DIP 25 & 26 ON for free play. DIP21 ON for 7 digit display. ***											
Search   OP 17, 18 & 19 ON for fee play   ON   ON   ON   ON   OFF   OF					_	_				_				
Second Content of the Content of t					_	_	_		_					
Medical   DIF 17, 18, 5 to DN for free play						_				_				
Medical				_		_								
Marco   Marc					_	_	_		_		_			
100   100														OFF
Description		Mystic	DIP 25 & 26 ON for free play. DIP21 ON for 7 digit display. ***	ON	ON	OFF	ON	ON	OFF	ON	ON	IN	OUT	OFF
1939   Paragor 7-Ogt   7 Ogt Dissipsive, No free play   ON   ON   OFF   ON   ON   OFF   ON   ON						_		-		_				
Separation   Paylogy   Flag   Flag					_	_								
Markor 7-Digit						_								
0.000 Sp. Shorth Maria														
Section														
Salzebal Home	043	Silverball Mania	DIP 25 & 26 ON for free play. DIP21 ON for 7 digit display. ***	ON	ON	OFF	ON	OFF	ON	OFF	OFF	IN	OUT	OFF
Space Invanders		Skateball				_	_			_				
Speakeasay 4 Player						_				_				
Seaketany 2 Player						_		+		_				
Specimen														
Not   Under   Not   Under   Not   Under   Not   Under   Unde						_				_				
Star Triek		<u>'</u>			_	_			_	_				
Sar Trek	051	Spy Hunter	DIP 25 & 26 ON for free play.	ON	ON	OFF	OFF	ON	ON	OFF	OFF	IN	OUT	OFF
Supersonic   DiP 17, 18 & 19 ON for free play   ON   ON   OFF	052	Star Trek		ON	ON	OFF	OFF	ON	OFF	ON	ON	IN	OUT	OFF
Supersonic   Digit Digit Digity, No free play   ON   ON   OF   OFF   O						_								
The Six Million Dollar Man   Dip 17, 18 & 19 ON for free play. Dip31 must be OFF.   ON   ON   OFF   OFF   OFF   ON   ON														
		·			_	_			_	_				
Nestor   DIP 25 & 26 ON for free play   ON   ON   OFF   OFF   OFF   OFF   ON   OFF   OFF   ON   OFF   OFF   OFF   OFF   OFF   OFF   ON   OFF						_				_				
							_							
	059	Vector Home V5	Home ROM by Oliver O.	ON	ON	OFF	-	OFF	ON	OFF	OFF		OUT	
062         Voltan Escapes Cosmic Doom         7 Digit Displays, No free play         ON         ON         OFF         ON         O		-												
083   X's and O's   DIP 25 & 26 ON for free play   ON									_					
Name		<u> </u>			_									
STERN MPU-100   REPLACING STERN MPU-100   DIP-2   DIP-3   DIP-2   DIP-3   DIP-4   DIP-5   DIP-6   DIP-7   DIP-8   DIP-7   DI					_			-	_					
065         Cosmic Princess         DIP 20 ON for free play. Credit Display Always On.         ON         OFF         ON         ON         ON         ON         OFF         IN         OUT         OFF           066         Dracula         DIP 20 ON for free play. Credit Display Always On.         ON         OFF         ON         ON         ON         OFF         ON         ON         ON         OFF         ON         ON         OFF         ON         ON         OFF         ON         ON         ON         OFF         ON         ON         OFF         ON         ON         OFF         ON         ON         OFF         ON         ON         ON         OFF         ON														DIP-1 TO DIP-4
066         Dracula         DIP 20 ON for free play. Credit Display Always On.         ON         OFF         ON         ON         ON         OFF         ON         ON         ON         OFF         ON         ON         OFF         ON							<del> </del>							
068         Lectronamo         DIP 20 ON for free play. Credit Display Always On.         ON         OFF         ON         ON         ON         OFF         ON         ON         ON         ON         OFF         ON														
065         Magic         Same ROM as Cosmic Princess         ON         OFF         ON         ON         ON         ON         ON         OFF         IN         OUT         OFF           089         Memory Lane         DIP 20 ON for free play. Credit Display Always On.         ON         OFF         ON         ON         OFF         ON         ON         OFF         ON         OFF         ON         ON <td< td=""><td></td><td></td><td></td><td></td><td>_</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>					_	_								
Nameroy Lane   DiP 20 ON for free play. Credit Display Always On.   ON OFF ON ON ON ON OFF ON ON ON OFF ON ON ON OFF ON ON ON OFF ON ON ON ON OFF ON ON ON ON OFF ON ON ON ON ON OFF ON							_							
068         Nugent         Same ROM as Lectronamo         ON         OFF         ON         ON         ON         OFF         ON         ON         OFF         ON         ON         OFF         ON						_								
070         Pihall         DIP 20 ON for free play. Credit Display Always On.         ON         OFF         ON         ON         ON         OFF         ON         ON <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td>+</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td>						_		+		_				
071         Stars         DIP 20 ON for free play. Credit Display Always On.         ON         OFF         ON         ON         OFF         ON         OFF         ON		-												
072         Trident         Factory Modified ROM P11A. Unknown changes. No free play.         ON         OFF         ON         O														
073         Trident         DIP 20 ON for free play. Credit Display Always On.         ON         OFF         ON         ON         OFF         ON         OFF         ON         ON <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>_</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					_	_	_							
142         Trident Home R23C         Custom ROM. See website for info bt         OFF         ON         ON         ON         OFF         OFF         ON         ON						_								
066         Wild Fyre         Same ROM as Dracula         ON         OFF         ON         ON         ON         OFF         ON         ON         OFF <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td>					_				_					
STERN MPU-200 **         REPLACING STERN MPU-200         DIP-1         DIP-2         DIP-3         DIP-4         DIP-5         DIP-6         DIP-7         DIP-8         B1         S1         DIP-1 TO DII           074         Ali         Stock ROM. No free play         ON         OFF         ON         ON         OFF         ON         OFF         ON         OFF         ON         ON         OFF         ON         OFF         ON										-				
074         Ali         Stock ROM. No free play         ON         OFF         ON         ON         OFF         ON         OFF         ON         ON         OFF         ON         OFF         ON         ON         OFF         ON         OFF         ON         OFF         ON         ON         OFF         ON         OFF         ON         ON         OFF         ON         OFF         ON         OFF         ON         ON         OFF         ON         OFF         ON         ON         OFF         ON         OFF         ON         OFF         ON         ON         OFF         ON         OFF         ON         ON         OFF         ON         OFF         ON         ON         OFF         ON						_								DIP-1 TO DIP-4
075         Ali         Always free play         ON         OFF         ON         ON         OFF         ON         OFF         ON         OFF         ON         OFF         ON         OFF         ON         OFF         ON         OFF         ON         OFF         ON         OFF         ON         OFF         OUT         IN         ON           077         Big Game         Always free play         ON         OFF         ON         OFF         ON         OFF         OUT         IN         ON						_								
076         Big Game         Stock ROM. No free play         ON         OFF         ON         ON         OFF         ON         OFF         ON         ON         OFF         OUT         IN         ON						_								
	076	Big Game		ON	OFF	ON	ON	OFF		ON	ON	OUT	IN	ON
134 Big Game V8 Custom ROM. See website for info txt OFF ON ON ON ON OFF OFF ON OUT IN ON		-				-								
	134	Big Game V8	Custom ROM. See website for info txt	OFF	ON	ON	ON	ON	OFF	OFF	ON	OUT	IN	ON

	GAME	NOTES	GAME SELCTION DIP SWITCH S5 CPU CLOCK JUMPERS								RAM WIDTH S6		
		COMBO ROM 2022-08	A20	A19	A18	A17	A16	A15	A14	A13	.5Mhz	.895Mhz	D0-D4
	STERN MPU-200 **	REPLACING STERN MPU-200	DIP-1	DIP-2	DIP-3	DIP-4	DIP-5	DIP-6	DIP-7	DIP-8	B1	S1	DIP-1 TO DIP-4
078	Catacomb	Stock ROM. No free play	ON	OFF	ON	ON	OFF	OFF	OFF	ON	OUT	IN	ON
079	Catacomb	Always free play	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	OUT	IN	ON
080	Cheetah	Stock ROM. No free play	ON	OFF	ON	OFF	ON	ON	ON	ON	OUT	IN	ON
081	Cheetah	Stock ROM. B16 version. No free play	ON	OFF	ON	OFF	ON	ON	ON	OFF	OUT	IN	ON
082	Cheetah	Always free play	ON	OFF	ON	OFF	ON	ON	OFF	ON	OUT	IN	ON
083	Cheetah Home	Only one collect bonus per ball.	ON	OFF	ON	OFF	ON	ON	OFF	OFF	OUT	IN	ON
084	Dragonfist	Stock ROM. No free play	ON	OFF	ON	OFF	ON	OFF	ON	ON	OUT	IN	ON
085	Dragonfist	Always free play	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OUT	IN	ON
086	Dragonfist Home v1106	Bonus X bug fix. DIP 19 ON = Free play	ON	OFF	ON	OFF	ON	OFF	OFF	ON	OUT	IN	ON
141	Dragonfist Home VB14	Custom ROM. See website for info txt	OFF	ON	ON	ON	OFF	OFF	ON	OFF	OUT	IN	ON
087	Flight 2000	Stock ROM. No free play	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	OUT	IN	ON
088	Flight 2000	Always free play	ON	OFF	ON	OFF	OFF	ON	ON	ON	OUT	IN	ON
132	Flight 2000 V3347	Custom ROM *** WARNING *** READ INFO FIRST. See website for info tx	OFF	ON	ON	ON	ON	OFF	ON	ON	OUT	IN	ON
089	Freefall	Stock ROM. No free play	ON	OFF	ON	OFF	OFF	ON	ON	OFF	OUT	IN	ON
090	Freefall	Always free play	ON	OFF	ON	OFF	OFF	ON	OFF	ON	OUT	IN	ON
091	Galaxy	Stock ROM. No free play	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OUT	IN	ON
092	Galaxy	Always free play	ON	OFF	ON	OFF	OFF	OFF	ON	ON	OUT	IN	ON
093	Iron Maiden	Stock ROM. No free play	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	OUT	IN	ON
094	Iron Maiden	Always free play	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	OUT	IN	ON
095	Lightning	Stock ROM. No free play	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OUT	IN	ON
096	Lightning	Always free play	ON	OFF	OFF	ON	ON	ON	ON	ON	OUT	IN	ON
139	Lightning V21	Custom ROM. See website for info txt	OFF	ON	ON	ON	OFF	ON	OFF	OFF	OUT	IN	ON
097	Meteor	Stock ROM. No free play. Factory Bonus X underflow to 256X bug fix	ON	OFF	OFF	ON	ON	ON	ON	OFF	OUT	IN	ON
098	Meteor 7 Digit	V24 7 Digit Displays	ON	OFF	OFF	ON	ON	ON	OFF	ON	OUT	IN	ON
099	Meteor Divide by 10	Scoring divided by ten. No free play	ON	OFF	OFF	ON	ON	ON	OFF	OFF	OUT	IN	ON
100	Meteor Free	Always free play	ON	OFF	OFF	ON	ON	OFF	ON	ON	OUT	IN	ON
135	Meteor V66	Custom ROM. See website for info txt	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OUT	IN	ON
137	Meteor V77	Custom ROM. See website for info txt	OFF	ON	ON	ON	OFF	ON	ON	OFF	OUT	IN	ON
101	Nine Ball	Stock Rom. No free play	ON	OFF	OFF	ON	ON	OFF	ON	OFF	OUT	IN	ON
102	Nine Ball	Always free play	ON	OFF	OFF	ON	ON	OFF	OFF	ON	OUT	IN	ON
138	Nine Ball V21	Custom ROM. See website for info txt	OFF	ON	ON	ON	OFF	ON	OFF	ON	OUT	IN	ON
103	Orbitor One	Stock Rom. No free play	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	OUT	IN	ON
104	Orbitor One	Always free play	ON	OFF	OFF	ON	OFF	ON	ON	ON	OUT	IN	ON
105	Orbitor One	No minimum game time. Always free play	ON	OFF	OFF	ON	OFF	ON	ON	OFF	OUT	IN	ON
106	Quicksilver	Stock Rom. No free play	ON	OFF	OFF	ON	OFF	ON	OFF	ON	OUT	IN	ON
107	Quicksilver	Always free play	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	OUT	IN	ON
136	Quicksilver V7	Custom ROM. See website for info txt	OFF	ON	ON	ON	OFF	ON	ON	ON	OUT	IN	ON
108	Seawitch	Stock Rom. No free play	ON	OFF	OFF	ON	OFF	OFF	ON	ON	OUT	IN	ON
109	Seawitch	Always free play	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	OUT	IN	ON
140	Seawitch	Custom ROM. See website for info txt	OFF	ON	ON	ON	OFF	OFF	ON	ON	OUT	IN	ON
110	Split Second	Stock Rom. No free play	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	OUT	IN	ON
111	Split Second	Always free play	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	OUT	IN	ON
112	Star Gazer	Stock Rom. No free play	ON	OFF	OFF	OFF	ON	ON	ON	ON	OUT	IN	ON
113	Star Gazer	Always free play	ON	OFF	OFF	OFF	ON	ON	ON	OFF	OUT	IN	ON
114	Star Gazer Home R9	Home ROM by Oliver O.	ON	OFF	OFF	OFF	ON	ON	OFF	ON	OUT	IN	ON
129		Cntr drops for bot roll overs. L/R banks for spinner 10x. Bonus X halved	OFF	ON	ON	ON	ON	ON	ON	OFF	OUT	IN	ON ON
115	Viper	Stock Rom. No free play	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	OUT	IN	
116	Viper	Always free play	ON DIP-1	OFF DIP-2	OFF	OFF DIP-4	ON	OFF	ON DIP-7	ON DIP-8	OUT	IN OI	ON
447	Bally Video and Special	REPLACING AS-2518-133 and Conversion Kits			DIP-3		DIP-5	DIP-6			B1	S1	DIP-1 TO DIP-4
117 118	Baby Pacman Granny and the Gators	No free play.  No free play.	ON ON	OFF OFF	OFF OFF	OFF OFF	ON	OFF OFF	ON OFF	OFF ON	IN IN	OUT	OFF OFF
119	Grand Slam 2 Player	DIP 25 & 26 ON for free play	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	IN	OUT	OFF
120	Grand Slam 4 Player	DIP 25 & 26 ON for free play	ON	OFF	OFF	OFF	OFF	ON	ON	ON	IN	OUT	OFF
121	Goldball		ON					ON		OFF	IN IN	OUT	OFF
121		No free play.	ON	OFF OFF	OFF	OFF OFF	OFF	ON	ON	OFF	IN IN	OUT	OFF
123	Goldball Home	Home ROM by Oliver O.		OFF	OFF	OFF	OFF	ON	OFF OFF	OFF	IN IN	OUT	OFF
123	Mystic Star World Defender	No free play	ON ON	OFF	OFF OFF	OFF	OFF	OFF	OFF	OFF	IN IN	OUT	OFF
124		No free play	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	IN IN	OUT	OFF
125	Super Bowl	No free play	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	IN IN	OUT	OFF
	Super Bowl	Custom Free play ROM by Quench			_					_			
127	Saturn 2	DIP20 = BG Music control	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	IN	OUT	OFF
128	Midnight Mauraders		OFF	ON	ON	ON	ON	ON	ON	ON	IN	OUT	OFF
130	Rapid Fire	Chara Chaffia Bassal	OFF	ON	ON	ON	ON	ON	OFF	ON	IN	OUT	OFF
131	Black Beauty	Stern Shuffle Board	OFF	ON	ON	ON	ON	ON	OFF	OFF	IN IN	OUT	OFF
133	Monroe Bowl	Monroe Ball Bowler	OFF	ON	ON	ON	ON	OFF	ON	OFF		OUT	
254	MEMORY CLEAR **	When the LED begins to blink the memory will be cleared.	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ETTHER B	1 OR S1 IN	ON

## NOTES:

RAM width is set by DIP switch all OFF / ON . MPU200 = ON. MPU-100, -17, -35, -133 = OFF

B1 and S1 jumpers set the CPU clock speed. B IN for 0.5MHz (Bally -17, -35, -133 and Stern MPU-100). S IN for 0.895MHz (Stern MPU-200)

Jumper shunt U2 Enable is removed when the U1 expanded ROM socket is used.

Clear audits with the Test and NMI Audit Clear buttons after switching games.

Starting in Revision 14 the game select dip switch is oreintated so UP is on and DOWN is off.

\*\* If you experience wrong sounds in a Stern Meteor use the MEMORY CLEAR software (DEC # 254). Power up and when the LED begins to blink the memory has been cleared.
\*\*\*\* DIP 21 Must be off when using original six digit displays in a game that supports seven digit displays.

## MPU Setup pictures at http://nvram.weebly.com/mpu.html