

	GAME	NOTES	GAME SELECTION DIP SWITCH S5								CPU CLOCK JUMPERS		RAM WIDTH S6					
			COMBO ROM 2023-07-22								A20	A19	A18	A17	A16	A15	A14	A13
	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 VB15	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	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					
148	Galaxy V008	Custom ROM. See website for info txt	OFF	ON	ON	OFF	ON	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 V22	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 V9	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	ON	OFF	ON	OUT	IN	ON				
129	Star Gazer Seymour Home V6	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					
115	Viper	Stock Rom. No free play	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	OUT	IN	ON					
116	Viper	Always free play	ON	OFF	OFF	OFF	ON	OFF	ON	ON	OUT	IN	ON					
	Bally Video and Special	REPLACING AS-2518-133 and Conversion Kits	DIP-1	DIP-2	DIP-3	DIP-4	DIP-5	DIP-6	DIP-7	DIP-8	B1	S1	DIP-1 TO DIP-4					
117	Baby Pacman	No free play.	ON	OFF	OFF	OFF	ON	OFF	ON	OFF	IN	OUT	OFF					
118	Granny and the Gators	No free play.	ON	OFF	OFF	OFF	ON	OFF	OFF	ON	IN	OUT	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	No free play.	ON	OFF	OFF	OFF	OFF	ON	ON	OFF	IN	OUT	OFF					
122	Goldball Home	Home ROM by Oliver O.	ON	OFF	OFF	OFF	OFF	ON	OFF	ON	IN	OUT	OFF					
123	Mystic Star	No free play	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	IN	OUT	OFF					
124	World Defender	No free play	ON	OFF	OFF	OFF	OFF	OFF	ON	ON	IN	OUT	OFF					
125	Super Bowl	No free play	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	IN	OUT	OFF					
126	Super Bowl	Custom Free play ROM by Quench	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	IN	OUT	OFF					
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		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	OUT	OFF					
133	Monroe Bowl	Monroe Ball Bowler	OFF	ON	ON	ON	ON	OFF	ON	OFF	IN	OUT	OFF					
254	MEMORY CLEAR **	When the LED begins to blink the memory will be cleared.	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	EITHER B1 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 orientated 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>