

IMPORTANT NOTE TO OPERATORS

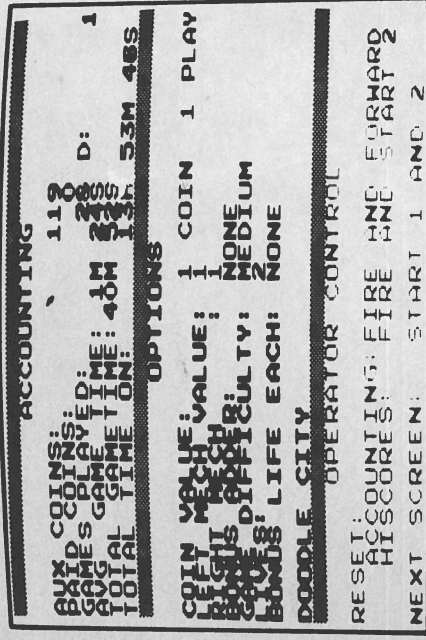
If the operators manual was not included in this game when you unpacked, contact your distributor to get a free copy. All Atari manuals for coin-operated games also include complete illustrated parts lists.

Self-Test Displays

Ten self-test displays provide a visual check of the following:

- Game accounting and option-switch information.
- Read-only memory (ROM) and random-access memory (RAM) circuit operation.
- Joystick and switch operation.
- Sound-generator circuit operation.
- Mathbox circuit operation.
- Dot-, vector-, and polygon-generator circuit operation.
- Character-generator circuit operation.
- Display operation.

When the self-test switch, located on the utility panel behind the coin door, is turned on the game enters the Self-Test Mode. After the last self-test display, the sequence starts over with Screen 2—Hardware and Switch Test. Turn the self-test switch off, then on again, to obtain Screen 1—Accounting and Options.



Screen 1—Accounting and Options

The Accounting and Options screen displays the accounting information and the option settings. The totals in the Accounting section of Screen 1 are those accumulated since the game was first turned on or last reset.

The following information is displayed in the Accounting section of Screen 1.

- **AUX COINS** shows the number of free coins selected by the auxiliary coin switch in the normal play mode.
- **PAID COINS** shows the total number of coins inserted into both game coin mechanisms.

- **GAMES PLAYED** shows the total number of free and paid games played. The number of Doodle City games played appears as **D: XXXX** on the same line. Add the Doodle City number to the number on the left to obtain the total games played.

- **AVG GAME TIME** shows the average time, in minutes and seconds, of all the games played.
- **TOTAL GAME TIME** shows the total time, in hours, minutes, and seconds, of all the games played.
- **TOTAL TIME ON** shows the total time, in hours, minutes, and seconds, the game has been on.

Resetting the Accounting Information. The accounting information can be reset by holding the FIRE button down and pushing the joystick forward.

Resetting the High Scores. We suggest that you reset the high-score table after any changes are made to the options which may affect the average game time. The high-score table displayed in the Attract Mode can be reset by simultaneously pressing the FIRE and Start 2 buttons.

Changing the Options. The Options section of Screen 1 shows the current option-switch settings. The options can be changed by resetting the option switches located on the central-processing unit (CPU) printed-circuit board (PCB).

Selecting the Options

Settings of the option switches are explained in Tables 1 and 2. Options preset at the factory are shown by the ◀ symbol. However, you may change the settings to suit your individual needs (see *Changing the Options*).

Table 1 describes the settings for the 8-toggle switch at location 5E on the CPU PCB. This switch selects both the bonus life intervals available and the game play options. Table 2 describes the settings for the 8-toggle switch on the CPU PCB at location 3J. This switch selects the game price options and the bonus adder.

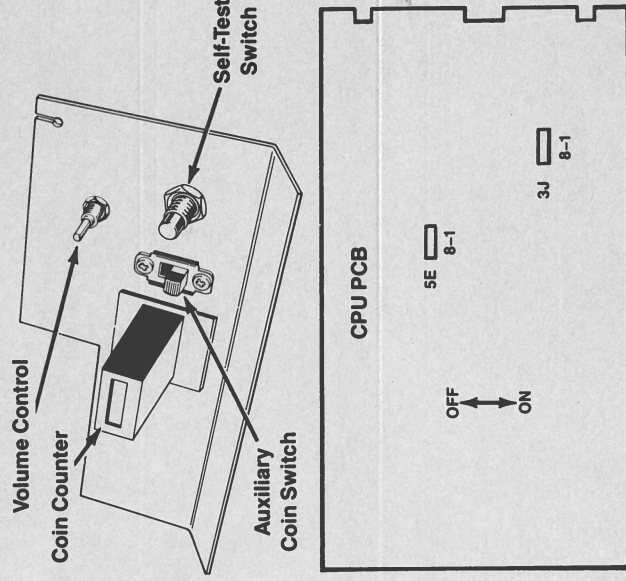


Table 1 Switch Settings for Bonus Interval and Play Options

Settings of 8-Toggle Switch on CPU PCB (at location 5E)							
1	2	3	4	5	6	7	8
Bonus Life Intervals							
	On	Off		On	Off		Option
	On	On		On	On		None
	Off	Off		Off	Off		20,000 ◀
	Off	On		Off	On		30,000
	On	Off		On	Off		50,000
Bonus Lives Per Coin							
	Off	On		On	Off		5 Lives
	Off	Off		Off	On		4 Lives
	On	On		On	On		3 Lives ◀
	On	Off		On	Off		2 Lives
Minimum Game Time Option							
		Off					90 Second Minimum Game Time on Level 1
		On					3 Lives (Limited Game Time) ◀
	On						Medium Difficulty Level ◀
	Off						Easy Difficulty Level
	On						Demonstration Mode On
	On						Demonstration Mode Off ◀
				On			Doodle City for 2 Minutes 10 Seconds ◀
				Off			Doodle City for 3 Minutes 5 Seconds

◀Manufacturer's recommended settings for American-made games.

Table 2 Switch Settings for Coin & Credit Options and Bonus Adder

Settings of 8-Toggle Switch on CPU PCB (at location 3J)							
1	2	3	4	5	6	7	8
Right Coin Mechanism							
	On			On			Option
	On			On			1 Coin for 1 Coin Unit ◀
	Off			Off			1 Coin for 4 Coin Units
	Off			On			1 Coin for 5 Coin Units
	Off			Off			1 Coin for 6 Coin Units
Left Coin Mechanism							
			On				1 Coin Unit for 1 Credit ◀
			Off				1 Coin Unit for 2 Credits
Coins Per Credit							
				On			1 Coin for 1 Credit ◀
				On			2 Coins for 1 Credit
				Off			3 Coins for 1 Credit
				Off			4 Coins for 1 Credit
Bonus Adder							
	On			On			No Bonus ◀
	On			Off			2 Coin Units for 1 Credit
	Off			On			3 Coin Units for 1 Credit
	Off			On			4 Coin Units for 1 Credit
	On			Off			5 Coin Units for 1 Credit
	Off			Off			4 Coin Units for 2 Credits
	Off			Off			No Bonus
	Off			Off			Free Play

◀Manufacturer's recommended settings for American-made games.