

CHAPTER TWO

### ADJUSTMENT, DIAGNOSTIC & AUDIT MENUS

#### **MENU SYSTEM**

#### WHAT IS THE MENU SYSTEM?

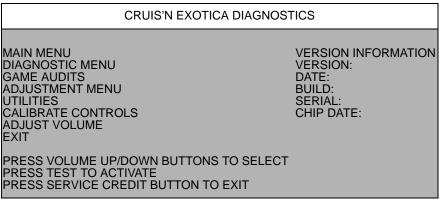
The game's Menu System is a series of auditing, game adjustments and diagnostic screens. You can easily access and apply these screens to optimize game performance. For instance...

- Use game audit screens to assess game performance.
- Use adjustment screens to help you customize game performance. For example, you can restore factory default game settings. You can also calibrate player controls for player accuracy.
- Use diagnostic screens to verify proper equipment operation.

#### **ACCESSING THE MENU SYSTEM**

Open the coin door. Locate and press the TEST MODE switch. The game system will exit game Attract Mode and enter Diagnostic Mode. The system runs a brief self-test, and then displays the Main Menu. The Main Menu is the opening screen of the Menu System.

Game audits, adjustments and diagnostics are line items on the Main Menu. Selecting an item opens its submenu. Every submenu presents various options that you may act upon.



TYPICAL MAIN MENU SCREEN

#### **MENU LAYOUT**

Observe that each menu screen basically uses the same layout. The game ID, Serial Number, and Date of Manufacture will appear on most of the menu screens. These numbers will be helpful to factory personnel when referring to your game for parts or service.

- The block at the top of each screen displays the current menu title.
- Data, such as menu items and video reports, etc., appears in the center of the screen.
- Messages, for example explanations and active control functions, etc., appear at the bottom of the screen.

#### **MENU NAVIGATION TOOLS**

Use the operator control buttons located inside the coin door to navigate menus. Press the Volume Up or Volume Down buttons to scroll through the menu options.

Notice the options sequentially become highlighted. Press the Test button to select a highlighted option and access the next menu level. **NOTE:** Only one highlighted option can be selected at a time.

To return to play mode, select Exit and press the Test button while in the Main Menu screen.

Main Menu, continued	
Diagnostics Menu	

#### **DIAGNOSTIC MENU**

To verify the condition of the electrical and electronic hardware in the game, select Diagnostics Menu at the Main Menu. Diagnostic tests assist you in checking and adjusting the game's major systems. It is important to periodically run diagnostics to improve and maintain game performance and player satisfaction.

DIAGNOSTIC MENU
SWITCH TEST MOTION TEST DIP SWITCH TEST CPU BOARD TEST SOUND BOARD TEST LINKING TEST STEERING WHEEL TEST MONITOR TEST BURN-IN TEST LAMP TEST LED TEST EXIT TO MAIN MENU
PRESS VOLUME UP/DOWN BUTTONS TO SELECT PRESS TEST TO ACTIVATE PRESS SERVICE CREDIT BUTTON TO EXIT

Use the Volume Up or Volume Down button to highlight the desired Diagnostic Menu option and press the Test button to enter.

Main Menu	
Diagnostic Menu, continued	
Switch Test Menu	

#### **SWITCH TEST**

To verify proper operation of switch and button inputs in the game, select SWITCH TEST at the Main Menu.

SV	VITCH TEST		
PRESS SERVICE CREDIT TO EXIT POT READING STEERING WHEEL XXX GAS PEDAL XX BRAKE PEDAL XX	CMOS VALUE MIN XX XX XX	CENTER XXX XXX	MAX XXX XX XXX
VIEW 1 VIEW 2 VIEW 3 START	SHIFT 1 SHIFT 2	SHIFT 3 SHIFT 4	
COIN 1 LEFT COIN 2 RIGHT COIN 3 CENTER COIN 4 RADIO	TEST VOLUME UP VOLUME DOWN SERVICE CREDIT		KEYPAD 123 456 789 -0-

Diagnostic Menu, continued

Switch Test Menu, continued

Use the Volume Up or Volume Down button to highlight the Switch Test option and press the Test access it. Press any switch on the control panel or coin door to cause the corresponding indicator on the screen to illuminate. Each illuminated square represents one completed switch circuit.

#### Main Menu

Diagnostic Menu, continued

**Motion Test** 

#### **MOTION TEST**

To verify functionality of motion seat controls, select MOTION TEST at the Main Menu.



#### **NOTICE**

Selecting any test from the Motion Test Menu will activate the seat causing it to automatically begin to move on its own. Use caution when conducting tests from this menu.

Use the Volume Up or Volume Down button to highlight the Motion Test option and press the Test button to access it. Use the Service Credits button at any time to exit the Motion Test and return to the Main Menu.

MOTIO	N TEST			
HOME POSITION OPERATIONS TEST	MOTION ERRORS: X			
TILT LEFT TILT RIGHT TILT FORWARD TILT BACK CLEAR MOTION ERRORS BURN-IN TEST	MOTION VERSION: X ERROR: CODE: X			
PRESS VOLUME UP/ DOWN BUTTONS TO SELECTOR SERVICE CREDIT BUTTON TO EXIT				

**HOME POSITION** automatically centers the motion seat so that it is positioned upright and does not tilt at any angle.

**OPERATIONS TEST** automatically cycles through each of the other test options.

**TILT LEFT** automatically tilts the seat at a left leaning angle.

**TILT RIGHT** automatically tilts the seat at a right leaning angle.

**TILT FORWARD** automatically tilts the seat at forward-facing angle.

TILT BACK AUTOMATICALLY TILTS THE SEAT IN A BACKWARD-FACING ANGLE.

**CLEAR MOTION ERRORS** erases any errors form memory.

**BURN-IN TEST** diagnoses intermittent circuit board problems. This test automatically cycles non-stop and *cannot* be stopped by pressing the Service Credit button.

Main Menu	
Diagnostic Menu, continued	
DIP Switch Test	

#### **DIP SWITCH TEST**

To verify the functionality of both 8-position DIP switches on the CPU Board, select DIP SWITCH TEST at the Main Menu. Observe immediate on-screen results by changing the setting on a switch.

Use the Volume Up or Volume Down button to highlight the DIP Switch Test option and press the Test button to access it. The current settings appear on-screen. Consult the table on the next page to determine if changes are required. The default switch positions are all OFF for standard operation.

A vertical bar next to the switch position column indicates a common switch function.

DIP SWI	TCH TEST	
DIP SWITCH 1	DIF	SWITCH 2
1 OFF DEDICATED 2 OFF MOTION OFF 3 OFF UPRIGHT CABINET 4 OFF WHEEL INVERT OFF 5 OFF 32M ROM NORMAL 6 OFF LINK DISABLED 7 OFF SHARED LINK GAME # 8 OFF SHARED LINK GAME #	1 OFF 2 OFF 3 OFF 4 OFF 5 OFF 6 OFF 7 OFF 8 OFF	USA 1 3 COINS/ 1 CREDIT
PRESS ANY BUTTON TO	EXIT	

TYPICAL DIP SWITCH SCREEN

#### **Setting Table for DIP Switch 1**

FUNCTION	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
DEDICATED KIT *	OFF ON							
MOTION DISABLED MOTION ENABLED		<b>OFF</b> ON						
UPRIGHT STYLE CABINET SIT DOWN STYLE CABINET			OFF ON					
WHEEL INVERT DISABLED** WHEEL INVERT ENABLED	SEE	NOTES	BELOW	<b>OFF</b> ON				
32M ROM NORMAL 16M ROM					OFF ON			
LINK DISABLED LINK ENABLED						<b>OFF</b> ON		
LINKING ID NUMBER MASTER (GAME NUMBER 1) SLAVE (GAME NUMBER 2) SLAVE (GAME NUMBER 3) SLAVE (GAME NUMBER 4)							OFF ON OFF ON	OFF OFF ON ON

<sup>\*</sup>DIP 1, Switch 1 must be set to the ON position in order for proper kit operation.

\*\*DIP 4, Switch 1 must be set to OFF for *Cruis'n USA™* and *Cruis'n World™* game conversions; DIP 4, Switch 1 must be set to ON position for *OffRoad Challenge™* game conversions in order to reverse wheel motion and allow the shifter to be read as Normally Closed.

Diagnostic Menu, continued

**DIP Switch Test, continued** 

#### **Game Adjustments for Linked Operation**

To avoid confusion, we recommend that all adjustments be set to identical values before Video Game Machines (VGMs) are linked. VGMs might operate incorrectly if this is not the case, with the following exceptions:

**NOTE:** All cabinets must have compatible software in order to link properly. Unlock the coin door and press the TEST button. The software version number is found on the Main Menu screen in game diagnostics. It does not matter what version is installed as long as all version numbers are the same.

- 1. **Linked VGMs must all have compatible software versions.** Newer versions may contain instructions that previous versions do not have, causing them to halt or reset at random. On-screen messages will indicate that different versions are in use when the linking feature is enabled for each.
- 2. The graphic effects and added attractions for the slave cabinets must be the same as the master. All games must have these features enabled or all must have them disabled. Mixed settings, for example road kill or a show girls setting, can cause games to become unsynchronized during competition and lead to incorrect final results (i.e., two first place finishes with different times, collisions with unseen objects, etc.).
- 3. The linking feature overrides some of the individual software settings. For instance, the master (VGM #1) sets and controls the difficulty level for all linked slaves. The difficulty level reported by the slave games may not match the setting of the master game.
- 4. The linked game with the highest ranking determines software settings. Adjustments such as bonus times will be controlled by the games in decreasing identification order. For example, if four games are linked, slave game #3 will always override game #4 but have no effect on games #1 or #2. This permits games to have different standards to help equalize players with different skill levels.

The linking cables attach to a connector on a metal bracket located under the CPU Board Assembly at the rear of the cabinet. Unlock and remove the cabinet rear door for linking access.

#### **Notes on Linking:**

- 1. For a 2-way link, the leftmost VGM is the master (#1); the second VGM is slave #2. One linking cable is required.
  - •For a 3-way link, the left VGM is the master (#1); the center and right VGMs are slaves #2 and #3. Two cables are required.
  - •For a 4-way link, the leftmost VGM is the master (#1); the left center VGM is slave #2, right center machine is #3, and the right most machine is slave #4. Three linking cables are required.
- 2. The linking feature will **not** function if the master is not turned on and in normal game play mode. If the master is turned off, disconnected from the linking cable, or in any other mode of operation (offline, diagnostics, etc.), none of the slaves will be able to link.

Main Menu	
Diagnostic Menu, continued	
DIP Switch Test, continued	

- The linking feature will function for all other VGMs if one of the slaves is not turned on and in normal game play mode. If any slave is turned off, disconnected from the linking cable, or in any other mode of operation (offline, diagnostics, etc.), the linking ability of other slaves will not be affected.
- •The linking feature will function for some VGMs, and not others, if all of the link activity switches are not enabled or the software version numbers are not the same. The master game will not recognize other games with disabled linking or different link identification numbers.

#### **Game Adjustments for Coinage**

#### **Setting Table for DIP Switch 2**

COUNTRY CODE	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
USA GERMANY FRANCE CANADA SWITZERLAND ITALY UK SPAIN AUSTRALIA JAPAN TAIWAN AUSTRIA BELGIUM SWEDEN FINLAND NETHERLANDS NORWAY DENMARK HUNGARY GENERAL	OFF* ON OFF ON ON ON	OFF* OFF ON OFF ON OFF ON OFF ON OFF ON OFF OFF	OFF* OFF OFF ON ON ON OFF OFF OFF OFF OFF OF	OFF* OFF OFF OFF OFF ON ON ON ON ON OFF OFF	OFF* OFF OFF OFF OFF OFF OFF OFF OFF OFF			
USA1/GER1/FR1/SPN1/AUSTRIA//1/GEN1 USA3/GER1/FR1/SPN1/AUSTRIA//1/GEN3 USA7/GER1/FR1/SPN1/AUSTRIA//1/GEN5 USA8/GER1/FR1/SPN1/AUSTRIA//1/GEN7 CAN1/SW1/ITL1/UK1/JPN1/TWN1/BLGN1 CAN2/SW2/ITL2/UK2/JPN2/TWN2/BLGN2 CAN3/SW3/ITL3/UK3/JPN3/TWN3/BLGN3 NTRLNDS1/ FNLD1/NWY1/DNMK1/HUN1 NTRLNDS2						OFF ON OFF ON OFF ON OFF ON	OFF OFF ON OFF OFF OFF	

#### **DIP SWITCH SETTING FOR COINAGE**

There are many ways to select the type and quantity of currency recognized by the game machine.

- 1. The most common coin combinations for several countries are pre-programmed and may be selected from the table when Standard Pricing is activated (see Adjustments, pg. 16).
- 2. DIP Switch settings may be changed with the power switched on. Set any switch and then observe the screen to verify that the desired selection is enabled. **NOTE:** If CMOS Coin Settings are active (set to ON), switch settings for an individual Country will have no effect.
- 3. Some European countries may accept currency used in other countries. The most popular coinage settings are listed beneath 'Other' in the Standard Pricing Table.

Cruis'n Exotiga™ 7

Diagnostic Menu, continued

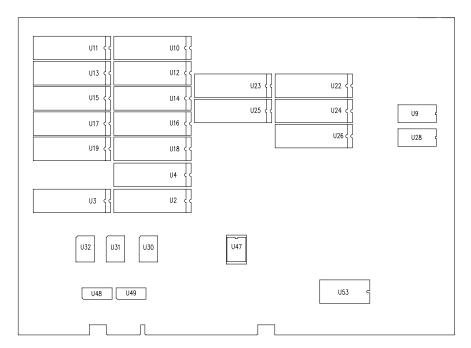
**DIP Switch Test, continued** 

- 4. Alternate settings are listed beneath 'General' in the Standard Pricing Table.
- 5. Default settings are denoted by an (\*). Switches 1 through 5 select country codes. Switches 6 and 7 are used to select one of four modes for each country.

### Main Menu Diagnostic Menu, continued CPU Board Test

#### **CPU BOARD TEST**

To verify proper operation of memory circuits, select CPU BOARD TEST at the Main Menu. This test checks the memory circuits in a manner similar to the Start-Up Test. A pattern representing the layout of the RAM and ROM circuits on the CPU Board will appear on-screen while the video circuits are tested.



TYPICAL CPU RAM & ROM PATTERN

Use the Volume Up or Volume Down button to highlight CPU Board Test and press the Test button. The memory circuits are shown as gray with a white outline. During the test, good ICs are colored green; faulty ICs are colored red. Press the Service Credits button to return to the Diagnostic Menu.

Main Menu	
Diagnostic Menu, continued	
Sound Board Test	

#### **SOUND BOARD TEST**

To verify proper operation of sound components, select SOUND BOARD TEST at the Main Menu. This test allows you to access and listen to the sounds used in the game.

SOL	JND BOARD TEST
UP DOWN SERVICE CREDIT	TO CHANGE MUSIC TO TRIGGER SOUND EFFECTS TO EXIT
TUNE SPEED LOOP	
SOUND EFFECT GIRL SPEECH	

Use the Volume Up or Volume Down button to highlight the Sound Board Test option and press the Test button. Press Service Credit to return to the Diagnostic Menu when finished.

Main Menu	
Diagnostic Menu, continued	
Linking Test	

#### **LINKING TEST**

To verify communications between the game machine and others connected to it, select Linking Test at the Main Menu.

LINKING TEST				
MACHINE 1 MASTER MACHINE 2 SLAVE MACHINE 3 SLAVE MACHINE 4 SLAVE	ACTIVE ACTIVE ACTIVE ACTIVE			
TOTAL TRANSMISSIONS TOTAL ERRORS	X X			
LINK ENABLED LINKED GAME NUMBER	X			
PRESS TEST TO CLEAR EF PRESS SERVICE CREDITS				

Use the Volume Up or Volume Down button to highlight the Linking Test option and press the Test button. This test runs automatically and will display all results on-screen.

Press Service Credit to clear errors and restart the test cycle. Press the Test button to exit from this menu screen.

Diagnostic Menu, continued

**Steering Wheel Test** 

#### STEERING WHEEL TEST

To verify the proper directional movement of the steering wheel, select Steering Wheel Test at the Main Menu. Make sure hands and other objects are clear of the steering wheel when this test is selected because the wheel will automatically rotate on its own. Follow the on-screen instructions.

#### STEERING WHEEL TEST

TURN WHEEL LEFT
PRESS TEST TO CONTINUE

TURN WHEEL RIGHT
PRESS TEST TO CONTINUE

Use the Volume Up or Volume Down button to highlight Steering Wheel Test and press the Test button. The steering wheel immediately turns to the left. Press the Test button a second time and the wheel turns to the right and will automatically return to the Diagnostic Menu.

#### Main Menu

Diagnostic Menu, continued

**Monitor Test** 

#### MONITOR TEST

To verify color clarity of the monitor, select Monitor Test at the Main Menu.

Use the Volume Up or Volume Down button to highlight the desired monitor test and press the Test button. Repeatedly press the Test button to cycle through test screens and automatically return to the Main Menu. Watch for the following results on-screen during this test.

**COLOR BARS.** Observe 4 color bars in different shades appear on-screen as aids in adjusting the green, blue, and red color levels. Each color should appear sharp and clear. Check video brightness and contrast.

The **CROSSHATCH PATTERNS** test fills the screen with a series of dots within a grid. Observe the dots are perfectly round and that both the grid and dots are clear. Inspect monitor convergence, linearity, and screen size.

If any of the tests show a need for CRT adjustment, use the proper knobs on the Monitor Controls board.

#### Main Menu

Diagnostic Menu, continued

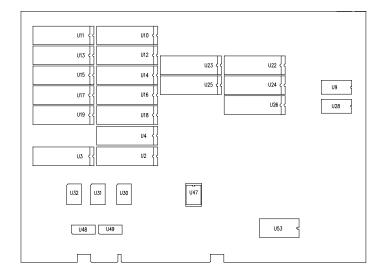
**Burn-In Test** 

#### **BURN-IN TEST**

To properly diagnose intermittent CPU Board problems, select Burn-In Test at the Main Menu. This test cycles non-stop through the CPU Board Test.

A pattern representing the layout of the RAM and ROM circuits on the CPU Board will appear on-screen while the video circuits are tested.

## Main Menu Diagnostic Menu, continued Burn-In Test, continued



Use the Volume Up or Volume Down button to highlight Burn-In Test and press the Test button to activate. The Burn-In Test will stop and display an error message on-screen if an error is detected.

Inputs from the control buttons are ignored during Burn-In. The Burn-In Test cannot be halted from the menus. To halt the test switch off power to the game machine and then power back up.

### Main Menu Diagnostic Menu, continued Lamp Test

#### **LAMP TEST**

To detect intermittent or faulty incandescent bulbs, select Lamp Test at the Main Menu. This test ensures that the incandescent bulbs critical to game operation function properly.

Use the Volume Up or Volume Down button to highlight Lamp Test and press the Test button. During the test observe the selected lamp switches turn *on* or *off* when the corresponding selection is made.

LAMP TEST

TURN ALL LAMPS
TURN OFF ALL LAMPS
TURN ON START
TURN ON VIEW 1
TURN ON VIEW 2
TURN ON VIEW 3
TURN ON MARQUEE LAMP 1
TURN ON MARQUEE LAMP 2

PRESS VOLUME UP/DOWN TO SELECT
PRESS TEST BUTTON ACTIVATE
PRESS SERVICE CREDIT TO BUTTON EXIT

Diagnostic Menu, continued

Lamp Test, continued

#### **Notes on the Lamp Test**

- 1. The RADIO button is not illuminated and requires no lamp test.
- 2. The MARQUEE LAMPS are located inside the lighted header as part of the Deluxe Linking Kit.
- 3. To override individual tests select either TURN ON or TURN OFF ALL LAMPS. The lamps also automatically switch off when the Service Credit button is pressed to exit this screen.

Press the Service Credit button to return to the Diagnostic Menu.

#### Main Menu

Diagnostic Menu, continued

**LED Test** 

#### **LED TEST**

To verify the proper functionality of the Dashboard LEDs, select LED Test at the Main Menu. This test allows you to control and test the illumination of the LED's located on the dash PCB.

Use the Volume Up and Volume Down buttons to highlight the LED Test and press the Test button. Observe the following activity on the dash PCB.

#### LED TESTS

LEDS ON LEDS OFF LEDS CYCLE

PRESS VOLUME UP/DOWN TO SELECT PRESS TEST BUTTON TO ACTIVATE PRESS SERVICE CREDIT BUTTON TO EXIT

Select **LEDs ON** to simultaneously turn on all LED's. LEDs will remain illuminated until switched off. Select **LEDs OFF** to simultaneously turn off all LED's. LEDs will not be illuminated during this phase. Select **LEDs CYCLE** to sequentially cycle through and turn each LED on and off, originating on the left-hand side of the dashboard PCB. Press the Service Credit button to halt the cycle.

#### Main Menu

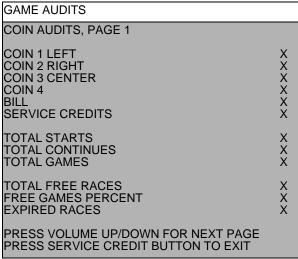
**Game Audits** 

#### **GAME AUDITS**

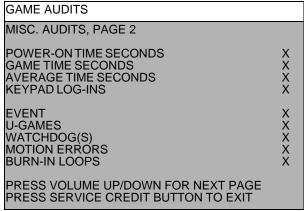
Press the Volume Up or Volume Down button to highlight Game Audits in the Main Menu and press the Test button. To move between pages in an Audit Table, press the Volume Up or Volume Down button. Press the Test or Start button to return to the Main Menu from this screen.

The Game Audits table displays play statistics. The Audit item is listed on the left side of the table and the amount of play appears on the right side. Record <u>all</u> statistics prior to performing any service or repairs.

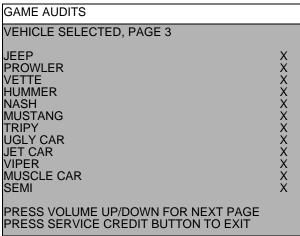
**Game Audits, continued** 



**AUDIT TABLE, PAGE 1** 

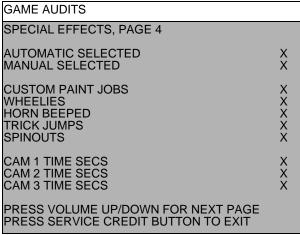


**AUDIT TABLE, PAGE 2** 

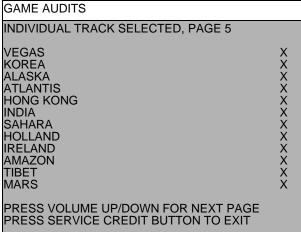


**AUDIT TABLE, PAGE 3** 

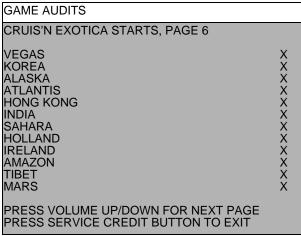
Game Audits, continued



AUDIT TABLE, PAGE 4

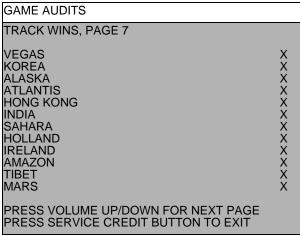


**AUDIT TABLE, PAGE 5** 

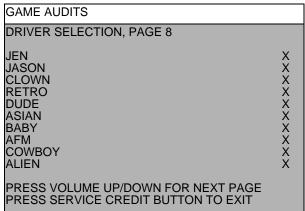


**AUDIT TABLE, PAGE 6** 

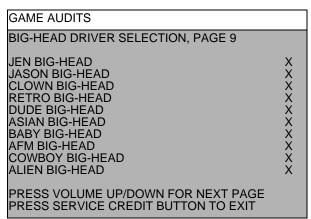
**Game Audits, continued** 



AUDIT TABLE, PAGE 7



**AUDIT TABLE, PAGE 8** 



**AUDIT TABLE, PAGE 9** 

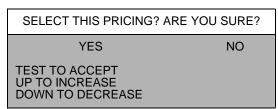
Main Menu	
Adjustment Menu	

#### **ADJUSTMENT MENU**

To optimize game performance and earnings or to change the look or sound of the game, select the Adjustment Menu at the Main Menu. The Attract Mode features, Game Pricing and Game difficulty may also be customized, along with awarding free races to encourage players. *Free game player incentives may reduce earnings*. **NOTE:** Individual Game Adjustments are explained in more detail on the following pages.

Press the Volume Up or Volume Down button to highlight the desired Adjustments Menu option on the Main Menu and press the Test button. Use these screens to optimize game performance and earnings.

The Adjustments Menu offers several options. Press the Volume Up or Volume Down button to highlight an option and press the Test button. Each time an option on the menu is activated you are provided with multiple setting choices. Use the Volume Up or Down button to change the current value setting and observe a confirmation box as shown below appears.



TYPICAL CONFIRMATION BOX

Press the Volume Up or Volume Down to make your selection, then press the Test button to lock in the setting. Selecting NO cancels any changes changed values and returns the previous values to memory.

ADJUSTMENT VALUES	
STANDARD PRICINGUSA 1 CUSTOM PRICING FREE PLAY FIRST PLACE GETS FREE RACE START TIME BONUS SECONDS CHECKPOINT BONUS SECONDS ATTRACT MODE SOUNDS INITIAL ENTRY MINIMUM VOLUME LEVEL STEERING WHEEL POWER SPEED IN MPH OR KPH KEYPAD ACTIVE MANUAL TRANS DISABLED SHOW ROADKILL SHOW ENDING SHOW GIRLS HIGH SCORE RESET GAME DIFFICULTY MAXIMUM CREDITS MULTI-PLAYER FREE RACES PRESS VOLUME UP/DOWN TO SELECT PRESS TEST BUTTON TO ACTIVATE PRESS SERVICE CREDIT BUTTON TO EXIT	ON OFF OFF ON 75 20 OFF ON 11 5 MPH OFF ON ON ON 5000 5 30 OFF

Main Menu	
Adjustment, continued	
Pricing Table,	

Use the Pricing Table illustrated below as a guide to select and/or verify the desired coin credit setting(s).

NAME	START	CONTINUE	CREDITS/COIN	COIN 1	COIN 2	COIN 3	COIN4	BILL
ANTILLES	2	2	1/25¢, 4/1G	.25¢	1G	1		1
AUSTRALIA 1	2	2	1/3X20¢, 2/\$1.00	.20¢	\$1.00		+	
AUSTRALIA 2	1	1	1/5X20¢, 1/\$1.00	.20¢	\$1.00			
AUSTRIA 1	2	2	1/5Sch, 2/10Sch	5 Sch	10 Sch		+	
AUSTRIA 2	2	2	1/2X5Sch, 3/2X10Sch	5 Sch	10 Sch			
BELGIUM 1	2	2	1/20BF	20BF	20BF		+	
BELGIUM 2	2	2	3/20BF	20BF	20BF			
BELGIUM 3	2	2	2/20BF	20BF	20BF			
BELGIUM ECA	2	2	1/20BF	50BF	20BF	5BF		
CANADA 1	2	2	1/2 x 25¢, 3/\$1	25¢	25¢	OB.		
CANADA 2	2	2	1 / 2 x 25¢, 3 / \$1	25¢	\$1.00			
CANADA 3	2	2	3 / \$1.00, 6 / \$2.00	\$1.00	\$2.00			
CANADA ECA	2	2	1 / 2 x 25¢, 3 / \$1	25¢	Ψ2.00	\$1.00	\$2.00	
DENMARK	2	2	3/5DKr, 7/10DKr	5DKr	10DKr	ψ1.00	Ψ2.00	
FINLAND	2	2	1/1Fmk	1Fmk	5Fmk		-	
FRANCE 1	2	2	2/5Fr, 5/10Fr	5Fr	10Fr		+	_
FRANCE 2	2	1	2/5Fr, 4/10Fr	5Fr	10Fr			
FRANCE 3	2	1	1/5Fr, 3/10Fr	5Fr	10Fr			
FRANCE 4	2	1	1/5Fr, 2/10Fr	5Fr	10Fr		1	1
FRANCE 5	2	1	2/5Fr, 5/10Fr, 11/2 X 10Fr	5Fr	10Fr		1	1
FRANCE 6	2	Ľ	2/5Fr, 4/10Fr, 9/2 X 10Fr	5Fr	10Fr		1	1
FRANCE 7	2		1/5Fr, 3/10Fr, 7/2 X 10Fr	5Fr	10Fr		1	
FRANCE 8	2	[1	1/5Fr, 2/10Fr, 5/2 X 10Fr	5Fr	10Fr		1	1
FRANCE 9	2	[1	1/3 X 1Fr, 2/5Fr	1Fr	5Fr		1	1
FRANCE 10	2	[1	1/2 X 1Fr, 3/5Fr	1Fr	5Fr		1	1
FRANCE 11	2	1	1/3 X 1Fr, 2/5Fr, 5/2 X 5Fr	1Fr	5Fr			
FRANCE 12		1	1/2 X 1Fr, 3/5Fr, 7/2 X 5Fr	1Fr	5Fr			
FRANCE ECA 1	1	1	2/5Fr, 5/10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 2	1	1	2/5Fr, 4/10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 3	1	1	1/5Fr, 3/10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 4	1	1	1/5Fr, 2/10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 5	1	1	2/5Fr, 5/10Fr, 11/2 X 10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 6	1	1	2/5Fr, 4/10Fr, 9/2 X 10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 7	1	1	1/5Fr, 3/10Fr, 7/2 X 10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 8	1	1	1/5Fr, 2/10Fr, 5/2 X 10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 9	1	1	1/3 X 1Fr, 2/5Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 10	1	1	1/2 X 1Fr, 3/5Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 11	1	1	1/3 X 1Fr, 2/5Fr, 5/10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 12	1	1	1/2 X 1Fr, 3/5Fr, 7/10Fr	1Fr	5Fr	10Fr	20Fr	
FRANCE ECA 13	1	1	1/10Fr, 2/20Fr, 4/30Fr	1Fr	5Fr	10Fr	20Fr	
FREE PLAY	i			None	None	None	None	None
GERMANY 1	2	2	1/1DM, 6/5DM	1DM	5DM	140110	140110	140110
GERMANY 2	2	1	1/1DM, 7/5DM	1DM	5DM			
GERMANY 3	2	1	1/1DM, 8/5DM	1DM	5DM			
GERMANY 4	2		1/1DM, 5/5DM	1DM	5DM			
GERMANY 5	2	1,	1/1DM, 6/5DM	1DM 1DM	5DM 5DM		1	1
	2	2	1/1DM, 6/5DM 1/1DM, 2/2DM, 6/5DM	1DM 1DM	2DM	5DM	1	1
GERMANY ECA 1	2	1		1DM 1DM	2DM 2DM	5DM	1	
GERMANY ECA 2	1	1,	1/1DM, 2/2DM, 6/5DM				1	1
GERMANY ECA 3	1 -	12	1/1DM, 2/2DM, 6/5DM	1DM	2DM	5DM	+	
HUNGARY	2	2	1/2X10Ft, 3/2X20Ft	10Ft	20Ft			1
ITALY	2	2	1/500Llt	500Llt	500Llt	ļ	1	
JAPAN 1	2	2	1/100Yen	100 Yen	100 Yen		1	1
JAPAN 2	2	2	2/100Yen	100 Yen	100 Yen		1	1
JAPAN 3	1	1	1/100Yen	100	100		1	1
JAPAN 4	1	1	2/100Yen	100	100		1	
JAPAN 5	1	1	4/100Yen	100	100		1	1
JAPAN 6	1	1	1/2X100Yen	100	100			
NETHERLANDS	2	2	1/1HFI, 3/2.5HFI	1HFI	2.5HFI			
NEW ZEALAND 1	1	1	1/\$1	\$1	\$2			
NEW ZEALAND 2	1	1	2/\$1	\$1	\$2		1	
NORWAY	2	2	3/5NKr, 6/10NKr	5NKr	10NKr	1		
SPAIN 1	2	2	1/100Pta, 6/500Pta	100Pta	500Pta	İ	1	
SPAIN 2	2	2	1/100Pta, 5/500Pta	100Pta	500Pta	1	1	
SWEDEN	2	2	1/3X1SKr. 2/5SKr	1SKr	5SKr	1	+	1
SWITZERLAND 1	2	2	1/1SFr, 6/5SFr	1SFr	5SFr	1	+	+
SWITZERLAND 2	2	2	1/1SFr, 7/5SFr	1SFr	5SFr		1	1
SWITZERLAND 3	2	2	1/1SFr. 8/5SFr	1SFr	5SFr		1	1
UK ECA 1	1	1	1/50p, 3/£1.00	£1.00		20n	10n	£2.00
ON LOA I	1 1	1'	1/30p, 3/21.00	21.00	50p	20p	10p	22.00

#### CHAPTER 2 DIAGNOSTICS

NAME	START	CONTINUE	CREDITS/COIN	COIN 1	COIN 2	COIN 3	COIN4	BILL
UK ECA 2	1	1	1/50p, 2/£1.00	£1.00	50p	20p	10p	£2.00
UK ECA 3	1	1	1/30p, 2/50p, 5/£1.00	£1.00	50p	20p	10p	£2.00
UK 4	1	1	1/50p, 3/£1.00	£1.00	50p			
UK 5	1	1	1/50p, 2/£1.00	£1.00	50p			
UK ECA 6	1	1	1/30p, 2/50p, 4/£1.00	£1.00	50p	20p	10p	£2.00
UK ECA 7	1	1	3/£1.00	£1.00	50p	20p	10p	£2.00
UK ECA 8	1	1	1/50p, 2/£1.00, 4/£2.00	£1.00	50p	20p	10p	£2.00
USA1	1	1	1/3X25¢	25¢	25¢			\$1.00
USA2	1	1	1/4X25¢	25¢	25¢			\$1.00
USA3	1	1	1/25¢	25¢	25¢			\$1.00
USA4	1	1	1/50¢, 3/\$1.00	25¢	25¢			\$1.00
USA5	2	1	1/50¢, 4/\$1.00	25¢	25¢			\$1.00
USA6	1	1	1/50¢	25¢	25¢			\$1.00
USA7	1	1	1/50¢, 3/\$1.00	25¢	25¢			\$1.00
USA8	2	2	1/50¢, 4/\$1.00	25¢	25¢			\$1.00
USA9	3	2	1/25¢, 4/\$1.00	25¢	25¢			\$1.00
USA10	3	3	1/25¢, 4/\$1.00	25¢	25¢			\$1.00
USA11	4	2	1/25¢, 4/\$1.00	25¢	25¢			\$1.00
USA12	4	3	1/25¢, 4/\$1.00	25¢	25¢	1		\$1.00
USA13	4	4	1/25¢, 4/\$1.00	25¢	25¢			\$1.00
USA ECA	3	3	1/25¢, 4/\$1.00	\$1.00	25¢	10¢	05¢	\$1.00
USA 15	2	1	1/25¢	25¢	25¢			\$1.00

Main Menu	
Adjustment, continued	
Custom Pricing Menu	

Use the Custom Pricing Menu to specify pricing settings other than the ones listed in the Standard Pricing Table. Custom Pricing can also be used to select the amount of credits required to start a game and the amount of credits required to continue a game.

Press the Volume Up or Volume Down button to highlight an option, i.e. Left Chute, Minimum Units, etc., and press the Test button. Next, use the Volume Up or Down button to adjust the current value setting, then press the Test button to lock in the setting. Selecting NO cancels any changes changed values and returns the previous values to memory.

CUSTOM PRICING MENU	
LEFT CHUTE UNITS RIGHT CHUTE UNITS CENTER CHUTE UNITS FOURTH CHUTE UNITS BILL CHUTE UNITS UNITS PER CREDIT UNITS FOR BONUS MINIMUM UNITS CREDITS TO START CREDITS TO CONTINUE LEFT CHUTE COUNTER RIGHT CHUTE COUNTER CENTER CHUTE COUNTER FOURTH CHUTE COUNTER BILL CHUTE COUNTER SHOW FRACTIONS SELECT CUSTOMER PRICING EXIT TO MAIN MENU	X X X X X X X X X X X X X X X X X Y E S NO
PRESS VOLUME UP/ DOWN TO SELECT PRESS TEST BUTTON TO ACTIVATE PRESS SERVICE CREDIT BUTTON TO EXIT	

Main Menu	
Adjustment, continued	
Custom Pricing Menu, continued	

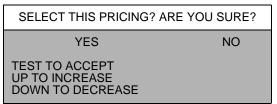
The following table clarifies Custom Pricing Menu terms...

SCREEN TERM	DEFINITION
CHUTE UNITS	Currency inserted accumulates units. This adjustment specifies the quantity of units given for each coin or bill in each coin chute.
UNITS PER CREDIT	Units needed to accumulate a credit.
UNITS FOR BONUS	Units awarded after a player has accumulated enough points for a bonus.
MINIMUM UNITS	No credits will be awarded until the minimum required currency units have been accumulated.
CREDITS TO START	Units needed to enter game play.
CREDITS TO CONTINUE	Units needed to continue game play.
CHUTE COUNTER	Total number of units accepted by a chute.
SHOW FRACTIONS	Fractional credits are observable in credit screen when YES is selected.
CUSTOMER PRICING	Selecting YES enables custom pricing and overrides default settings.

Main Menu	
Adjustment Menu, continued	

To further optimize game performance and earnings, select the desired option on the Adjustment Menu. Press the Volume Up or Volume Down button to highlight the desired Adjustments Menu option on the Main Menu and press the Test button. Use these screens to optimize game performance and earnings.

Each time an option on the menu is activated you are provided with multiple setting choices. Use the Volume Up or Down button to change the current value setting and observe a confirmation box as shown below appears.



TYPICAL CONFIRMATION BOX

Press the Volume Up or Volume Down to make your selection, then press the Test button to lock in the setting. Selecting NO cancels any changes changed values and returns the previous values to memory.

Adjustment, continued

Free Play Menu

#### Free Play

This option selects free play. The setting choices for this adjustment are:

- -On
- -Off
- -Factory Setting: Off

#### Main Menu

Adjustment, continued

First Place Awards Free Game Menu

#### **First Place Awards Free Game**

Awards a player a free game upon a first place finish. The setting choices are:

- -On
- -Off
- -Factory Setting: On

#### Main Menu

Adjustment, continued

Start Time Bonus Seconds Menu

#### **Start Time Bonus Seconds**

Determines the initial amount of time a player is given to finish a race. The setting choices are:

-Maximum: 90 -Minimum: 60 -Factory Setting: 75

#### Main Menu

Adjustment, continued

**Checkpoint Bonus Time Menu** 

#### **Checkpoint Bonus Time**

Awards a player a time bonus for passing a checkpoint. The setting choices are:

-Maximum: 10 -Minimum: 25 -Factory Setting: 20

Adjustment, continued

**Attract Sound** 

#### **Attract Sound**

This option selects the attract mode sounds. The setting choices for this adjustment are:

- -On
- -Off
- -Factory Setting: Off

#### Main Menu

#### Adjustment, continued

Initial Entry Menu

#### **Initials Entry**

This enables players to enter their initials following a successful race. The setting choices are:

- -On
- -Off
- -Factory Setting: On

#### Main Menu

#### Adjustment, continued

**Minimum Volume Level Menu** 

#### **Minimum Volume Level**

This determines the minimum volume level of the game sounds. The setting range is:

-Maximum: 30 -Minimum: 0 -Factory Setting: 11

#### Main Menu

#### Adjustment, continued

**Steering Wheel Power Menu** 

#### **Steering Wheel Power**

This selects the amount of power provided to steering. The setting range is:

-Maximum: 10 -Minimum: 1 -Factory Setting: 5

Adjustment, continued

Speed in MPH or KPH Menu

#### Speed in MPH or KPH

This determines the speedometer setting in miles per hour or kilometers per hour. The setting range is:

- -MPH
- -KPH
- -Factory Setting: MPH

#### Main Menu

Adjustment, continued

**Manual Trans Disabled Menu** 

#### **Manual Trans Disabled**

This provide control of the manual transmission option. The setting range is:

- -On
- -Off
- -Factory Setting: Off

#### Main Menu

Adjustment, continued

**Keypad Active Menu** 

#### **Keypad Active**

This determines whether a player is allowed to use the keypad for inputs. The setting range for a kit is:

- -On
- -Off
- -Factory Setting: Off

#### Main Menu

Adjustment, continued

**Show Roadkill Menu** 

#### **Show Roadkill**

This determines if dead animals are shown in the game. The setting range is:

- -On
- -Off
- -Factory Setting: On

Adjustment, continued

**Show Ending Menu** 

#### **Show Ending**

This determines if an image of the President is shown upon completion of a game. The setting range is:

- -On
- -Off
- -Factory Setting: On

#### Main Menu

Adjustment, continued

**Show Girls Menu** 

#### **Show Girls**

This determines if "sexy" girls are shown at various points in the game. The setting range is:

- -On
- -Off
- -Factory Setting: On

#### Main Menu

Adjustment, continued

**High Score Reset Menu** 

#### **High Score Reset**

This determines the number of points required to reset the high score. The setting range is:

Maximum: 25000
 Minimum: 1000
 Factory Setting: 5000

#### Main Menu

Adjustment, continued

**Game Difficulty Menu** 

#### **Game Difficulty**

This determines the level of difficulty for the game. The setting range is:

-Easiest 0 -Hardest 9 -Factory Setting: 5

Adjustment, continued

**Maximum Credits Menu** 

#### **Maximum Credits**

This allows the operator to select the maximum number of credits allotted. The setting range is:

-Maximum: 99 -Minimum: 1 -Factory Setting: 30

#### Main Menu

Adjustment, continued

Multi-Player Free Races Menu

#### **Multi-Player Free Races**

Awards free game to top player in a 2, 3, 4 or more player race. The setting range is:

- -Off
- -2 Player
- -3 Player
- -4 Player
- -Factory Setting: Off

#### Main Menu

Utilities

#### **UTILITIES**

To clear bookkeeping memory and reset factory defaults, select Utilities at the Main Menu. Press the Volume Up or Volume Down button to highlight the Utilities option on the Main Menu, then press the Test button. Press the Service Credit button to return to the Main Menu from this screen.

#### **UTILITIES MENU**

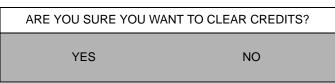
CLEAR CREDITS
CLEAR GAME AUDITS
RESET HIGH SCORES
RESET HIGH SCORES, PLAYER STATS
DEFAULT ADJUSTMENTS
FULL FACTORY RESTORE
EXIT TO MAIN MENU

PRESS VOLUME UP/VOLUME DOWN TO SELECT PRESS TEST BUTTON TO ACTIVATE PRESS SERVICE CREDIT BUTTON TO EXIT

#### **UTILITIES MENU**

The Utilities Menu offers several options. Press the Volume Up or Volume Down button to highlight an option, then press the Test button. Each time an option on the menu is activated you are provided with multiple setting choices. Use the Volume Up or Volume Down button to change the current value setting and observe a confirmation box as shown appears.

### Main Menu Utilities, continued



TYPICAL CONFIRMATION BOX

Press the Volume Up or Volume Down button to select YES or NO, then press the Test button to lock in the setting. Selecting NO cancels any changes values and returns the previous values to memory.

**NOTE**: Record the numbers before they are cleared. These values cannot be restored once erased.

Main Menu	
Utilities, continued	
Clear Credits Menu	

#### **Clear Credits**

Press the Volume Up or Volume Down buttons to highlight the Clear Credits option on the Main Menu, then press the Test button. This returns all credit values to zero and removes credit amounts from memory.

- Yes
- No

## Main Menu Utilities, continued Clear Game Audits Menu

#### **Clear Game Audits**

Press the Volume Up or Volume Down buttons to highlight the Clear Game Audits option, then press the Test button. This returns all audit values to zero and removes totals from memory.

- Yes
- No

# Main Menu Utilities, continued Reset High Scores Menu

#### **Reset High Scores**

Press the Volume Up or Volume Down buttons to highlight the Reset High Scores option on the Main Menu, then press the Test button. This deletes all high scores and removes player identities from memory.

- Yes
- No

Utilities, continued

Reset High Scores Menu, Player Stats

#### Reset High Scores, Player Stats

Press the Volume Up or Volume Down buttons to highlight the Reset High Scores, Player Stats option on the Main Menu, then press the Test button. This deletes player identities and high scores accessed only via game keypad. **This Utilities option NOT applicable to kit upgraded games.** 

- Yes
- No

#### Main Menu

Utilities, continued

**Full Factory Restore Menu** 

#### **Default Adjustments**

Press the Volume Up or Volume Down buttons to highlight the Default Adjustments option on the Main Menu, then press the Test button. This sets the adjustments back to their original values.

- Yes
- No

#### Main Menu

Utilities, continued

**Full Factory Restore Menu** 

#### **Full Factory Restore**

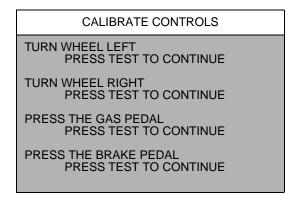
Press the Volume Up or Volume Down buttons to highlight the Full Factory Restore option on the Main Menu, then press the Test button. This returns every variable in the game to the original factory settings.

- Yes
- No

**Calibrate Controls** 

#### **CALIBRATE CONTROLS**

To calibrate the steering wheel and pedals, select Calibrate Controls at the Main Menu. Press the Volume

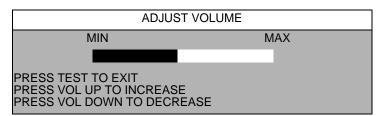


Up or Volume Down button to highlight the Control Calibration option on the Main Menu, then press the Test button. Follow the instructions on screen.

Main Menu
Adjust Volume

#### **ADJUST VOLUME**

To select a desirable volume level, select Volume Level at the Main Menu. Press the Volume Up or Volume Down button to highlight the Adjust Volume option on the Main Menu, then press the Test button. Remember that the minimum sound level is set under Game Adjustments.



Press the Volume Up button to increase, or the Volume Down button to decrease the sound level of the game. Press the Test button to lock the volume level at the selected value and return to the Main Menu.

CRUIS'N EXOTICA™

#### **NOTES**