



TEST, AUDITS, & WIRING MANUAL



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303 Paterson Plank Road
Carlstadt, New Jersey**



Main Phone: (201) 438-1300

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Part Phone: (800) 828-2048

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CAUTION:

- The specifications of this product are subject to change without notice for reasons such as performance. Visit: rawthrills.com for latest updates and information.
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Safety Instructions

Safety instructions apply to operators and service personnel. Read these instructions before preparing the video game machine (Video Game Machine) for play. Other safety instructions appear throughout this manual.

WARNING: TRANSPORTING THE VIDEO GAME MACHINE (Video Game Machine).

The Video Game Machine contains glass and fragile electronic devices. Use appropriate care when transporting . Avoid rough handling when moving the video game machine.

WARNING: DISCONNECT POWER.

Always turn the power OFF and unplug the Video Game Machine before attempting service or adjustments unless otherwise instructed. Installing or repairing components with the power switched ON can damage the components and void warranty.

WARNING: GROUND GAMES.

Avoid electrical shock! Do not plug in the video game machine until you have inspected and properly grounded the AC service outlet. Only plug into a grounded, three-wire outlet. Do not use a "cheater" plug, or cut off the ground pin on the line cord.

WARNING: AVOID ELECTRICAL SHOCKS.

This video game machine does not utilize an isolation transformer. Internal cabinet AC is not isolated from the external AC line. Dangerous High voltage is present inside the game when plugged into outlet. Always unplug before servicing.

WARNING: HANDLE FLOURESCENT TUBE AND LCD WITH CARE.

If you drop a fluorescent tube and it breaks, it will implode! Shattered glass can fly eight feet or more from the implosion.

WARNING: CHECK POWER SELECTOR SWITCH AND LAMPS.

Set the 115/230 VAC selector switch on the power supply for the correct line voltage on the installation site. Verify that the fluorescent lamps, 12V power supply, transformer and PC voltage selector switch are rated/set for the proper line voltage in your installation sit.

WARNING: USE PROPER FUSE.

Avoid electrical shock! Replacement fuses must be identically rated to the original fuse!

WARNING: ATTACH CONNECTORS PROPERLY.

Be sure all connectors mate properly. If connectors do not slip in easily, do not force them. Connectors are often keyed and only connect one way. Check for correct orientation.

WARNING: USE EXTREME CARE WHEN HANDLING PC.

The PC contains sensitive components such as a hard drive. Do not handle roughly. Call your distributor before servicing PC internal components. Ask about warranty information as it relates to the PC.

WARNING: FOR INDOOR USE ONLY.

The Video Game Machine is not designed for outdoor use or in the presence of water or moisture. Operate in dry and well ventilated areas away from sources of water or water jet. Do not wash games with water or any liquid.

WARNING: HAZARD TO EPILEPTICS.

A very small portion of the population has a condition which may cause them to experience epileptic seizures or have momentary loss of consciousness when viewing certain kinds of flashing lights or patterns that are present in our daily environment. These persons may experience seizures while watching some kinds of television pictures or playing certain video games. Peoples who have not had any previous seizures may nonetheless have an undetected epileptic condition.

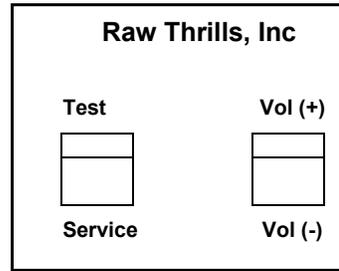
If you or anyone in your family has experienced symptoms linked to an epileptic condition (e.g., seizures or loss of awareness), immediately consult your physician before using any video games.

We recommend that parents observe their children while they play video games. If you or your child experience the following symptoms: dizziness, altered vision, eye or muscle twitching, involuntary movements, loss of awareness, disorientation, or convulsions, DISCONTINUE USE IMMEDIATELY and consult your physician.



SETUP AND TEST MENU

Locate the *Service Button Panel*. The Service Button Panel is made up of two rocker switches. Simply press the side of the switch indicated by the function you want to activate. It is mounted inside the coin door area on top of the cash box vault. Press the **TEST** button to access the **Test Menu**.



Menu Navigation:

Button	Action
Test or Keypad (#)	Enter Operator Screen/Select Item
Service or Keypad (*)	Exit Menu
Vol. (+) or Keypad (8)	Scroll up thru Menu items
Vol. (-) or Keypad (0)	Scroll down thru Menu items

MAIN MENU

The **Test Main Menu** appears when the **TEST** button is pressed.

```

Dirty Drivin' (tm) © 2010 Specular Interactive, Inc., and Raw Thrills, Inc. All rights reserved.
[Player 8 | Credits To Start: 1 | Credits: 1/4 | [v1.0e] | 3/16/2011 6:17:27 PM | Keypad ]
Main Menu
[v1.0e]
Build   Test Mar/23/2011.06:14pm.SPARE-PC
Program 4482-2350
Data    0131-2AF4
-----
Sound...
Calibration...
Adjustments...
Diagnostics...
-----
Audits...
Utilities...
Advanced...
-----
Help...
-----
Exit
-----

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN - Volume DOWN or 0
    
```

NOTICE: New settings are automatically saved upon exiting the adjustment menu. Exit the test menu normally by using the Service or Keypad (*). If power to the game is interrupted while making adjustments to the game, you may need to re-enter the new settings again.

Sound Menu

From the **Main Menu**, select **Sound** and enter to view volume adjustment options. Seat Rumble Strength is a function of the sub-woofer volume and how strong it vibrates the seat. Adjust Attract Volume to appropriate level best suited for the game's location. Reset Sound Defaults restores the factory volume setting.



Calibration

From the **Main Menu** select and enter **Calibration**. Select operation: Throttle or Wheel Calibration. Follow the screen prompts carefully. Check for proper calibration.



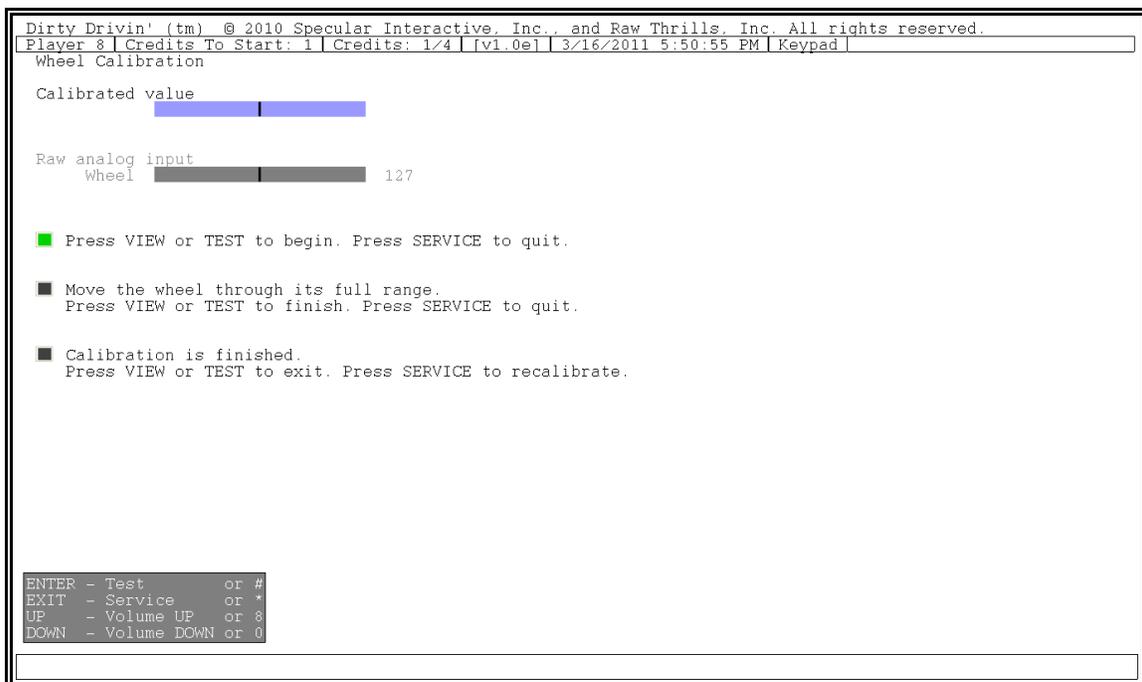
Throttle Calibration

From the **Calibration Menu** select and enter **Throttle Calibration**. The throttle controls the speed as well as forward and reverse direction of the Truck. It is also key in achieving jump tricks and maneuvers. Follow the instruction on screen for successful calibration. It is important to calibrate game controls to compensate for mechanical wear and tear. A properly functional game will result in optimal earnings and increased customers re-play.



Wheel Calibration

From the **Calibration Menu** select and enter **Wheel Calibration**. The steering wheel controls the left/right direction of the Truck. Follow the direction on the screen for proper wheel calibration.



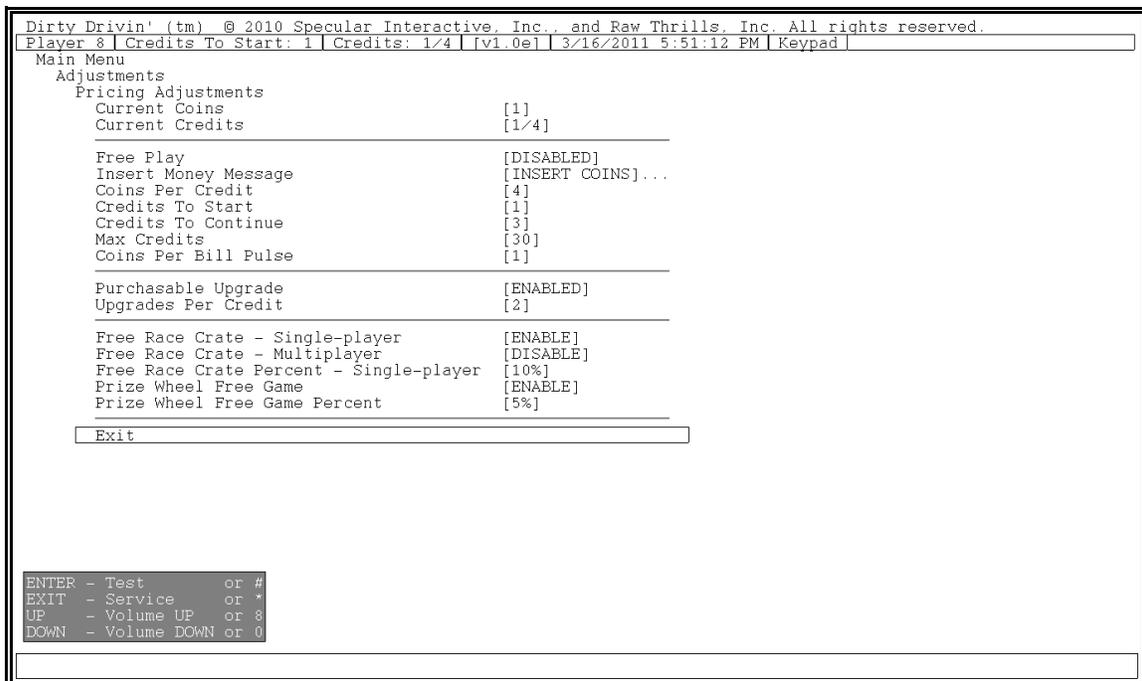
Adjustments

From the **Main Menu** select and enter **Adjustments**. Operator adjustable settings can be found in the sub-menu. Scroll and select the appropriate item within each sub-menu. Make changes to game settings as needed. Changes are automatically saved when you exit.



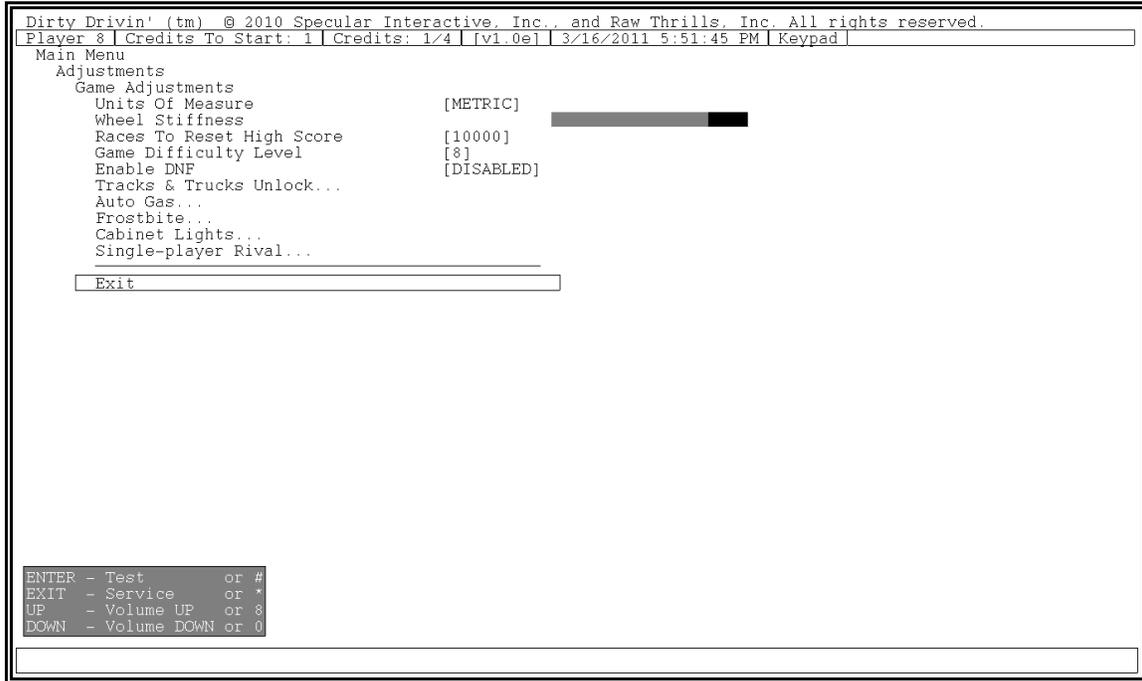
Pricing Adjustments

From the **Adjustment Menu** select and enter **Pricing Adjustments**. Game pricing will be overridden if **Free Play** is set to [ENABLE]. Select the correct "Insert Money Message" based on payment system at location.



Game Adjustments

From the **Adjustments Menu** select and enter **Game Adjustments**. Units Measure refers to Speed in miles (Imperial) or kilometers (Metric) per hour. Attract Mode Lights refers to the LED clusters activity when game is not in play. Wheel Stiffness refers to the amount of wheel centering force. Move the wheel left/right while adjusting the wheel strength in real time.



Network Adjustments

From the **Adjustments Menu** select and enter **Network Adjustments**. Assign a unique Player ID for each game attached to the network. If two games are assigned the same Player ID the games will not link correctly.



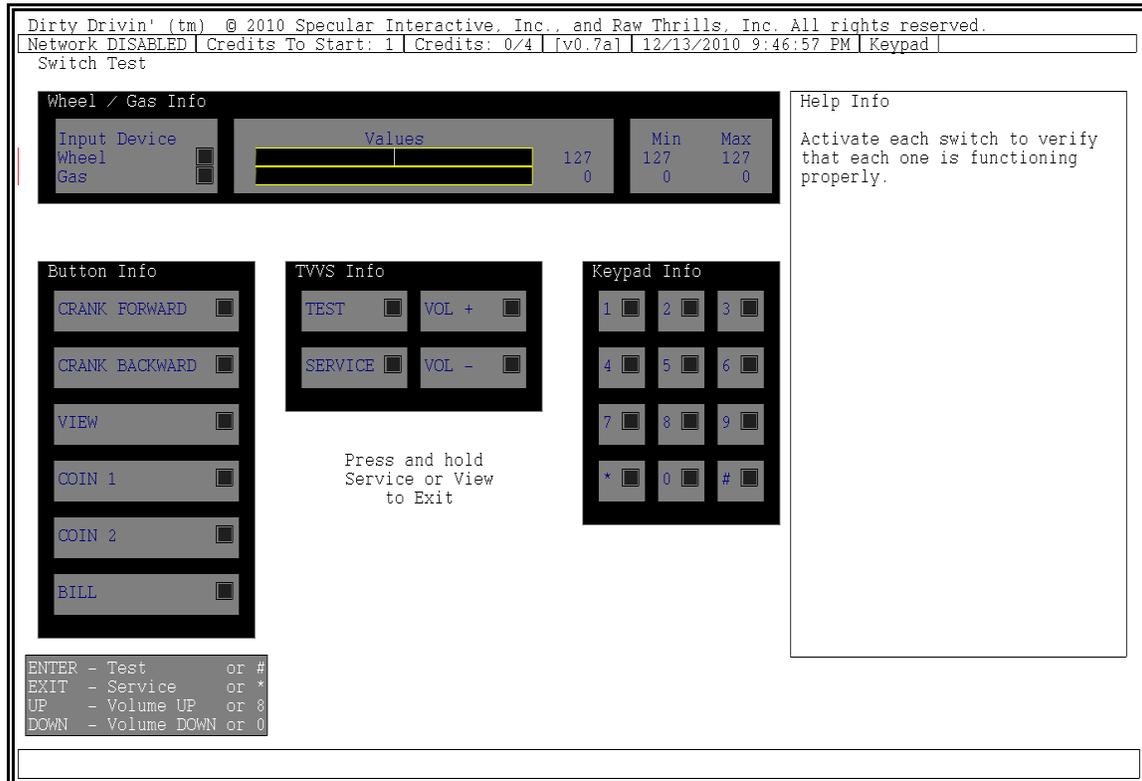
Diagnostics

From the **Main Menu** select and enter **Diagnostics**. All input and output functions of the game can be functionally tested by selecting and performing the appropriate test function.



Switch Test

From the **Diagnostics Menu** select and enter **Switch Test**. To aid in troubleshooting, an audible tone can be heard when a switch is activated. Switches that have been activated are also shown in a different shade. Press and hold **SERVICE** to Exit.



Lamp Test

From the **Diagnostics Menu** select and enter **Lamp Test**. Lamps increase the overall visual appeal of the game. They help to attract players as well as enhance their playing experience. Periodically test each controlled lamp. Turn on all lamps or control them individually.

```

Dirty Drivin' (tm) @ 2010 Specular Interactive, Inc., and Raw Thrills, Inc. All rights reserved.
Player 8 | Credits To Start: 1 | Credits: 1/4 | [v1.0e] | 3/16/2011 6:03:55 PM | Keypad |
Main Menu
Diagnostics
  Cabinet Light Test
    All Lights [OFF]
    _____
    Left Indicator 1 [OFF]
    Left Indicator 2 [OFF]
    Left Indicator 3 [OFF]
    Left Indicator 4 [OFF]
    Right Indicator 1 [OFF]
    Right Indicator 2 [OFF]
    Right Indicator 3 [OFF]
    Right Indicator 4 [OFF]
    Fog Light 1 [OFF]
    Fog Light 2 [OFF]
    Fog Light 3 [OFF]
    Fog Light 4 [OFF]
    Speaker 1 [OFF]
    Speaker 2 [OFF]
    Speaker 3 [OFF]
    Large Dials [OFF]
    Small Dial R [OFF]
    Small Dial L [OFF]
    Base [OFF]
    View Button [OFF]
    Extra [OFF]
    _____
    Exit
  
```

```

ENTER - Test or #
EXIT - Service or *
UP - Volume UP or 8
DOWN - Volume DOWN or 0
  
```

Sound Test

From the **Diagnostics Menu** select and enter **Sound Test**. Main Speakers refer to the two marquee speakers.

```

Dirty Drivin' (tm) @ 2010 Specular Interactive, Inc., and Raw Thrills, Inc. All rights reserved.
Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 9:47:26 PM | Keypad |
Main Menu
Diagnostics
  Sound Test
    Test Main Speakers: Low Sound ( 100 Hz) [OFF]
    Test Main Speakers: High Sound (1000 Hz) [OFF]
    Seat Woofer: Low Sound ( 100 Hz) [OFF]
    Seat Woofer: High Sound (1000 Hz) [OFF]
    _____
    Exit
  
```

```

ENTER - Test or #
EXIT - Service or *
UP - Volume UP or 8
DOWN - Volume DOWN or 0
  
```

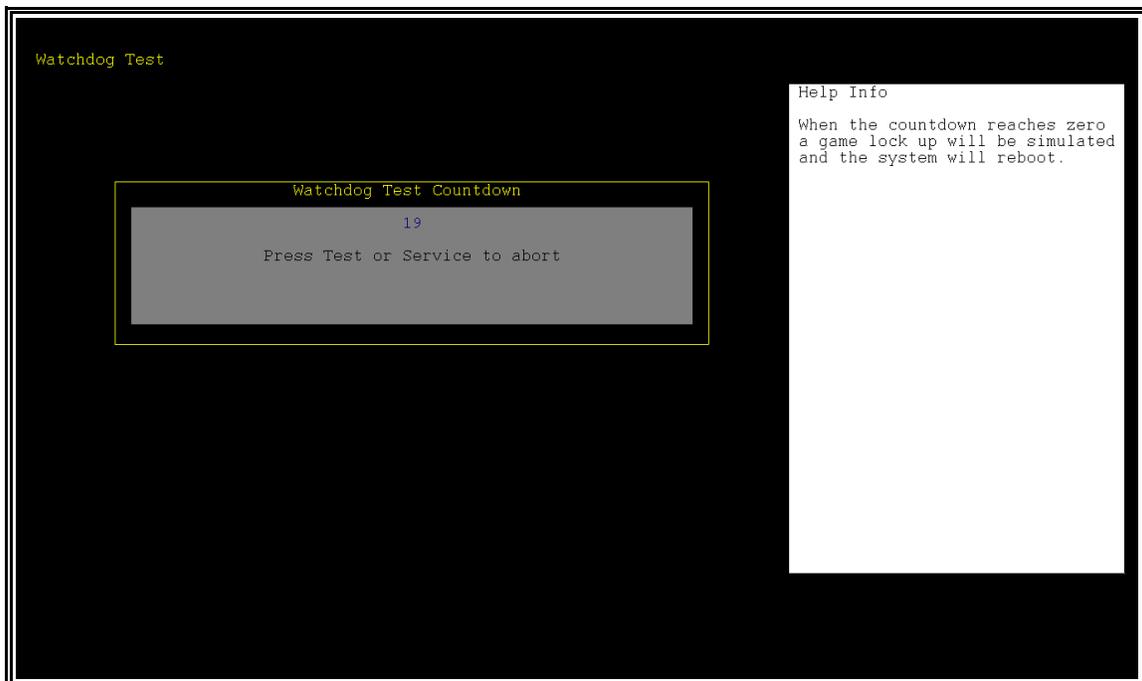
LCD Test

From the **Diagnostics** menu, select and enter **LCD Monitor Tests**. Verify correct color and purity for Red, Blue and Green screens. Check for proper graphics card and LCD controller synch using the inversion test. Follow the direction on the screen.



Watchdog Test

From the **Diagnostics Menu** select and enter **Watchdog Test**. The watchdog circuit allows for the PC to automatically re-boot in the event of a lock-up. This is an important feature that allows the game to be installed in unattended locations. The game will reboot to indicate that the test is successful.



Coin Meter Test

From the **Diagnostics Menu** select and enter **Coin Meter Test**. Advance the meter once using by pressing Test. Press the Service Button to exit the test.

Audits

From the **Main Menu** select and enter **Audits**.

```

Dirty Drivin' (tm) @ 2010 Specular Interactive, Inc., and Raw Thrills, Inc. All rights reserved.
Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:33:44 PM | Keypad |
Main Menu
Audits
  Coin Audits...
  Boot Audits...
-----
  Game Audits...
  Track Audits...
  Truck Audits...
-----
  Profile Audits...
  Profile Games...
-----
  Exit
-----

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN  - Volume DOWN or 0
    
```

Coin Audits

From the **Audit Menu** select and enter **Coin Audits**.

```

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Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:32:48 PM | Keypad |
Main Menu
Audits
  Coin Audits
    Current Credits          0/4
    -----
    Total Inserted Service Credits  0
    -----
    Slot 0 Coins             108
    Slot 1 Coins             0
    Total Slot Coins         108
    -----
    Bill Validator Coins      4
    -----
  Exit
-----

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN  - Volume DOWN or 0
    
```

Boot Audits

From the **Audit Menu** select and enter **Boot Audits**.

```

Dirty Drivin' (tm) © 2010 Specular Interactive, Inc., and Raw Thrills, Inc. All rights reserved.
Player 8 | Credits To Start: 1 | Credits: 1/4 | [v0.7a] | 3/16/2011 12:53:29 PM | Keypad |
Main Menu
Audits
  Boot Audits
    Total Boot Time                00:00:01:08
    Total Boots                    169
    Total Maintenance Reboots      0
    No I/O Board Detected on Boot  0
    Test-Mode Entries              56

    Watchdogs                      0
      Recent Watchdog Reboot
    Slow Frame Rate Reboot         0
      Recent Slow Frame Rate Reboot
    Lost Device Reboot            0
      Recent Lost Device Reboot
    Lost VSync Reboot             0
      Recent Lost VSync Reboot
    Race Too Long Reboot          0
      Recent Race Too Long Reboot

    Crash Log
      EIP                          00000000
      Exception                    00000000
      Address                      00000000
      Time
      Game code                    -1 Undefined
      Count                        0

Exit

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN - Volume DOWN or 0
  
```

Game Audits

From the **Audit Menu** select and enter **Game Audits**.

```

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Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:32:56 PM | Keypad |
Main Menu
Audits
  Game Audits
    Games Played                23
    Games Started              15
    Games Continued             8

    Single-player Races Timed Out (DNF) 0
    Multiplayer Races Timed Out (DNF) 0

    Profile Games              11
    Non-Profile Games          3

    Single-player Games        14
    Multiplayer Games          0

    Unfinished Games          22

    Total Free Games           0
      Free Games From Crate    0
      Free Games From Spin Wheel 0

    Time Game On               2:00:09
    Time In Attract Mode       0:56:44
    Time In Game               1:03:25

    Total Time In Race         0:30:21

Exit

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN - Volume DOWN or 0
  
```

Track Audits Summary

From the *Audit Menu* select and enter *Track Audits Summary*.

```

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Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:42:17 PM | Keypad |
Main Menu
Audits
  Track Audits

    Track Audits Summary - Single-player...
    Track Audits Summary - Multiplayer...

    Detailed Track Audits
    Thunder Mesa
    Brawlaseum
    Twisted Swisster
    Volcano Island
    Iron Circuit
    Revenge of the Nile
    Lost City
    Flipped Thunder Mesa
    Flipped Brawlaseum
    Flipped Twisted Swisster
    Flipped Volcano Island
    Flipped Iron Circuit
    Flipped Revenge of the Nile
    Flipped Lost City

    Exit

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN  - Volume DOWN or 0
  
```

Detailed Track Audits

From the *Track Audit Summary Menu* select and enter a specific track for more detailed audit information.

```

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Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:42:16 PM | Keypad |
Main Menu
Audits
  Track Audits
    Flipped Lost City
      Selected              0
      Single-player
      Best Score            0
      Worst Score           0
      Average Score         0
      Multiplayer
      Best Score            0
      Worst Score           0
      Average Score         0
      Single-player Placing Results
      1st Place             0      0.00%
      2nd Place             0      0.00%
      3rd Place             0      0.00%
      4th                   0      0.00%
      5th                   0      0.00%
      6th                   0      0.00%
      7th                   0      0.00%
      8th                   0      0.00%
      9th                   0      0.00%
      10th                  0      0.00%
      11 - 15th             0      0.00%
      16 - 20th             0      0.00%
      21 - 25th             0      0.00%
      26th +                0      0.00%
      Timed Out (DNF)      0      0.00%

      Exit

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN  - Volume DOWN or 0
  
```

Truck Audits

From the **Audit Menu** select and enter **Truck Audits**.

```
Dirty Drivin' (tm) © 2010 Specular Interactive, Inc. and Raw Thrills, Inc. All rights reserved.
Player 8 | Credits To Start: 1 | Credits: 1/4 | [v1.0e] | 3/16/2011 6:10:56 PM | Keypad
Main Menu
Audits
  Truck Audits
    Truck Audits Summary...
    Detailed Truck Audits
    Patriot...
    Battle Axe...
    Dune Buggy...
    Voodoo...
    Tycoon...
    Zuulu...
    Lock & Load...
    Go-Rilla...
    Riptide...
    Snake Bite...
    Bone Wagon...
  Exit

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN - Volume DOWN or 0
```

Truck Audits Summary

From the *Truck Audit Menu* select and enter *Truck Audits Summary*.

```

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Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:42:16 PM | Keypad |
Main Menu
Audits
  Truck Audits
    Dirty Drivin' (tm) @ 2010 Specular Interactive, Inc., and Raw Thrills, Inc. All rights reserved.
    Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:26:36 PM | Keypad |
    Main Menu
    Audits
      Truck Audits
        Truck Audits Summary
          Single-player Races
            ----- Name ----- | --Total Race Time-- | --Selected-- | ---1st--- | --Finishes-- | --Time Outs (DNF)--
            Patriot                | 0:02:04             | 1           | 0         | 1           | 0
            Battle Axe             | 0:06:12             | 5           | 2         | 3           | 0
            Dume Buggy            | 0:04:34             | 3           | 0         | 2           | 0
            Voodoo                 | 0:02:11             | 1           | 0         | 1           | 0
            Tycoon                 | 0:02:11             | 1           | 0         | 1           | 0
            Zuulu                  | 0:00:00             | 0           | 0         | 0           | 0
            Lock & Load           | 0:02:28             | 1           | 0         | 1           | 0
            Go-Rilla               | 0:02:09             | 1           | 0         | 1           | 0
            Riptide                 | 0:04:02             | 2           | 0         | 2           | 0
            Snake Bite             | 0:00:00             | 1           | 0         | 0           | 0
            Bone Wagon             | 0:04:25             | 3           | 0         | 2           | 0
          Multiplayer Races
            ----- Name ----- | --Total Race Time-- | --Selected-- | --Finishes-- | --Time Outs (DNF)--
            Patriot                | 0:00:00             | 0           | 0         | 0           | 0
            Battle Axe             | 0:00:00             | 0           | 0         | 0           | 0
            Dume Buggy            | 0:00:00             | 0           | 0         | 0           | 0
            Voodoo                 | 0:00:00             | 0           | 0         | 0           | 0
            Tycoon                 | 0:00:00             | 0           | 0         | 0           | 0
            Zuulu                  | 0:00:00             | 0           | 0         | 0           | 0
            Lock & Load           | 0:00:00             | 0           | 0         | 0           | 0
            Go-Rilla               | 0:00:00             | 0           | 0         | 0           | 0
            Riptide                 | 0:00:00             | 0           | 0         | 0           | 0
            Snake Bite             | 0:00:00             | 0           | 0         | 0           | 0
            Bone Wagon             | 0:00:00             | 0           | 0         | 0           | 0
          Exit
        ENTER - Test           or #
        EXIT  - Service        or *
        UP    - Volume UP      or 8
        DOWN  - Volume DOWN    or 0
    
```

Detailed Truck Audits

From the *Truck Audit Menu* select and enter *Detailed Truck Audits*. Select a Truck to view more details.

```

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Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:26:52 PM | Keypad |
Main Menu
Audits
  Truck Audits
    Bone Wagon
      Total Race Time          0:04:25
      Selected                  3
      Single-player
        Best Score              70400
        Worst Score             52000
        Average Score           61200
        Time Outs (DNF)         0
      Multiplayer
        Best Score              0
        Worst Score             0
        Average Score           0
        Time Outs (DNF)         0
      Exit
    ENTER - Test           or #
    EXIT  - Service        or *
    UP    - Volume UP      or 8
    DOWN  - Volume DOWN    or 0
  
```

Profile Audits

From the **Audit Menu** select and enter **Profile Audits**.

```

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Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:33:36 PM | Keypad |
Main Menu
Audits
Profile Audits

Profiles Created                               1

Profile Game Complete
-- Game Completion --|-- Number of Profiles --|-- Percent Profile --
  0 - 10 %                               1          100.00 %
 11 - 20 %                               0           0.00 %
 21 - 30 %                               0           0.00 %
 31 - 40 %                               0           0.00 %
 41 - 50 %                               0           0.00 %
 51 - 60 %                               0           0.00 %
 61 - 70 %                               0           0.00 %
 71 - 80 %                               0           0.00 %
 81 - 90 %                               0           0.00 %
 91 - 100 %                              0           0.00 %

Exit

ENTER - Test           or #
EXIT  - Service        or *
UP    - Volume UP      or 8
DOWN  - Volume DOWN    or 0
    
```

Profile Games Audit

From the **Audit Menu** select and enter **Profile Games**.

```

Dirty Drivin' (tm) @ 2010 Specular Interactive, Inc., and Raw Thrills, Inc. All rights reserved.
Player 8 | Credits To Start: 1 | Credits: 1/4 | [v1.0e] | 3/16/2011 6:11:05 PM | Keypad |
Main Menu
Audits
Profile Games

Profiles Created                               2

Profile Max Consecutive 1st Place             2
Profile Max Consecutive Non-1st Place         0

Profile Games Count
-- Game Count --|-- Number of Profiles --|-- Percent Profile --
  0                               2          100.00 %
  1                               0           0.00 %
  2                               1           50.00 %
  3                               0           0.00 %
  4                               0           0.00 %
  5                               0           0.00 %
  6                               0           0.00 %
  7                               0           0.00 %
  8                               0           0.00 %
  9                               0           0.00 %
 10                              0           0.00 %
 11 - 15                          0           0.00 %
 16 - 20                          0           0.00 %
 21 - 30                          0           0.00 %
 31 - 40                          0           0.00 %
 41 - 50                          0           0.00 %
 51 +                              0           0.00 %

Exit

ENTER - Test           or #
EXIT  - Service        or *
UP    - Volume UP      or 8
DOWN  - Volume DOWN    or 0
    
```

Utilities

From the **Main Menu** select and enter **Utilities**. It is often a good idea to clear audit information when a game has been moved to a new location or after a change in setting like price, difficulty level or similar.

```

Dirty Drivin' (tm) @ 2010 Specular Interactive, Inc., and Raw Thrills, Inc. All rights reserved.
Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:34:10 PM | Keypad |
Main Menu
  Utilities
    Clear Credits ...
    Clear Credit Audits...
    Clear Boot Audits...
    _____
    Clear Game Audits...
    Clear Track Audits...
    Clear Truck Audits...
    Clear Game, Track, and Truck Audits...
    _____
    Reset Free Race History...
    Reset High Scores...
    Clear Player Profiles...
    _____
    Maintenance Reboot...
    Change System Local Time...
    _____
    Factory Restore...
    _____
    Exit
  
```

```

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN  - Volume DOWN or 0
  
```

Help

From the **Main Menu** select and enter **Help**. This screen displays contact information for Technical Support on Dirty Drivin'.

```

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Network DISABLED | Credits To Start: 1 | Credits: 0/4 | [v0.7a] | 12/13/2010 10:34:27 PM | Keypad |
Main Menu
  Help
    Contact Information
    Contact Raw Thrills:
    service@rawthrills.com
    _____
    Exit
  
```

```

ENTER - Test      or #
EXIT  - Service   or *
UP    - Volume UP or 8
DOWN  - Volume DOWN or 0
  
```


Designed & Developed by Specular Interactive, Inc.

Steven Ranck
Andrew Silber
Detmar Peterke
Brian Silva
Dale Henderscheid
Gary Carbonell
Andrew E. Wilson
Jordan Edell
Anthony De Filippis

Additional Development

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Dan Stanfill
Andrew Rai
Thang Nguyen
Kaysaun Franklin
Nicole Chamness

Even More Development

Alex Green
Joseph Shunk
Robin Harr

Sound Recording Facilities

PCB Productions – Los Angeles, CA

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