Cruis'n blast™

Setup and Operations Manual

Nintendo®

RAW THRILLS™

Safety

Operation

Before operating game, read this manual. Failure to properly install and operate this game could result in malfunction or accident. Operate the game in accordance with the manual.

Transporting

The cabinet is very heavy. Because the monitor is high, the cabinet is also very top-heavy. Use appropriate care when moving or transporting cabinet. It contains fragile glass and electronic components. Avoid rough handling.

Handling Components

Many components are extremely sensitive to handling, environmental and Electrostatic Discharge (ESD) events—especially the computer. Do not handle it roughly. Before servicing, call your distributor and inquire about the PC warranty. Use proper ESD procedures when servicing. Protect components from harmful environmental conditions, such as extreme temperatures, excessive moisture or other damaging effects.

Disconnect_power

Always turn the power off and unplug the unit before servicing or making adjustments unless otherwise instructed. Installing or repairing components while power is on can damage the components and void the warranty.

Grounding

Avoid electrical shock. Do not plug in AC power until you have inspected and properly grounded the unit. Only plug into a grounded, three-wire outlet. Do not use a “cheater” plug or cut off the ground pin on the line cord.

Electrical Shocks

There is no isolation transformer in the cabinet. Disconnect AC power before servicing. However, be aware that lethal voltages can remain in the electronic components even when AC power is disconnected. Use extreme caution when servicing. Verify that there is a working ground connection. If the unit sustains water damage, cease using it immediately and unplug AC power.

Monitor

The monitor contains no user serviceable parts. Do not attempt to service the monitor.

Power Selector

Whenever applicable: Before installing game, ensure the voltage on the PC and power supply is set properly. There is a 115/230 VAC selector switch that must be set for the correct voltage for your site. The setting must match the line voltage at the installation site.

Power Cord

If the power cord is damaged or lost, replace it with an identical cord as supplied by the manufacturer or an authorized service agent.

Surge Supressor

It is recommended that you plug your game’s power cord into a surge suppressor to help protect from power surges that may damage sensitive electronic components.

WATER AND OTHER LIQUID SOURCE

Do not install game near sprinkler or other water jet sources. Do not use water jet to clean game. Keep minimum clearance behind game and wall for proper ventilation but also prevent access of liquid from spills and sprays from entering ventilation holes.

CONNECTORS

When servicing machine, ensure 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.

COMPUTER

The computer contains sensitive components, including a hard drive. Do not handle it roughly. Call your distributor before servicing its internal components. Ask about warranty information as it relates to the PC.
Do not turn the PC power switch on or off. It should remain permanently in the ON position.
Cycle AC power on or off with the cabinet power switch.
A dongle has been inserted into one of the USB ports. This is required for game play.
Do not remove the dongle except for troubleshooting purposes.

TEMPERED GLASS WARNING

When handling the LCD display glass cover take especial care and set the glass down softly on a flat surface free of debris. The edge of the glass is sensitive to hard impact. Shattered glass from the can travel long distances and cause bodily injury. Use proper procedures when handling broken materials.

HAZARD TO EPILEPTICS

A small portion of the population has an epileptic condition that may cause seizures. Affected persons experience seizures while watching some television pictures or playing certain video games. People who have not had seizures may still have an undetected epileptic condition. If anyone in your family has experienced epilepsy symptoms (seizures or loss of awareness), consult your physical before using video games. While children play video games, a parent should observe. Be alert to the following symptoms: dizziness, altered vision, eye or muscle twitching, involuntary movements, loss of awareness, disorientation or convulsions. If you or your child experiences these symptoms, discontinue use immediately and consult your physician.

MANUAL

Keep this manual available and ready for use. Please check our website www.rawthrills.com for the latest information regarding this and other Raw Thrills products. If the game fails to function properly, turn off the machine and unplug the AC line cord. Contact your local distributor. Your warranty, when applicable, lasts 60 days from your purchase date. You may not reproduce this document or any of its contents without written authorization from Raw Thrills, Inc. or Play Mechanix™ Inc.

SPECIFICATIONS

For reasons, such as performance, this product's specifications may change without notice. Federal patent, copyright and other intellectual property laws protect the content, devices and design of the game and its equipment.

Product Specifications

Electrical Power

United States, international and Japan
Inrush AC Current: 7 Amps
Operating AC Current: 5/2.5 Amps
Voltage: 100/115/230 VAC 50/60Hz

Electrical Safety Notice:
For continued protection against the risk of fire, use only specified fuse values.

Dimensions

Height: 93.50” (2.35 meters)
Width: 43.14” (1.20 meters)
Depth: 84.00” (2.013 meters)

ELECTICAL SAFETY NOTICE: REPLACE FUSE WITH SPECIFIED FUSE RATING ONLY. DO NOT REPLACE FUSE WITH HIGHER THAN SPECIFIED RATING.

RIO PCB FUSE GUIDE:
+5 VDC - 3 amp Slow Blow (RIO MCU, START BUTTON)
+12 VDC - 5 amp Slow Blow (COIN DOOR, COOLING FANS, DASH LED)
*+12 VDC - AUDIO POWER USES A THERMAL FUSE, RIO F3

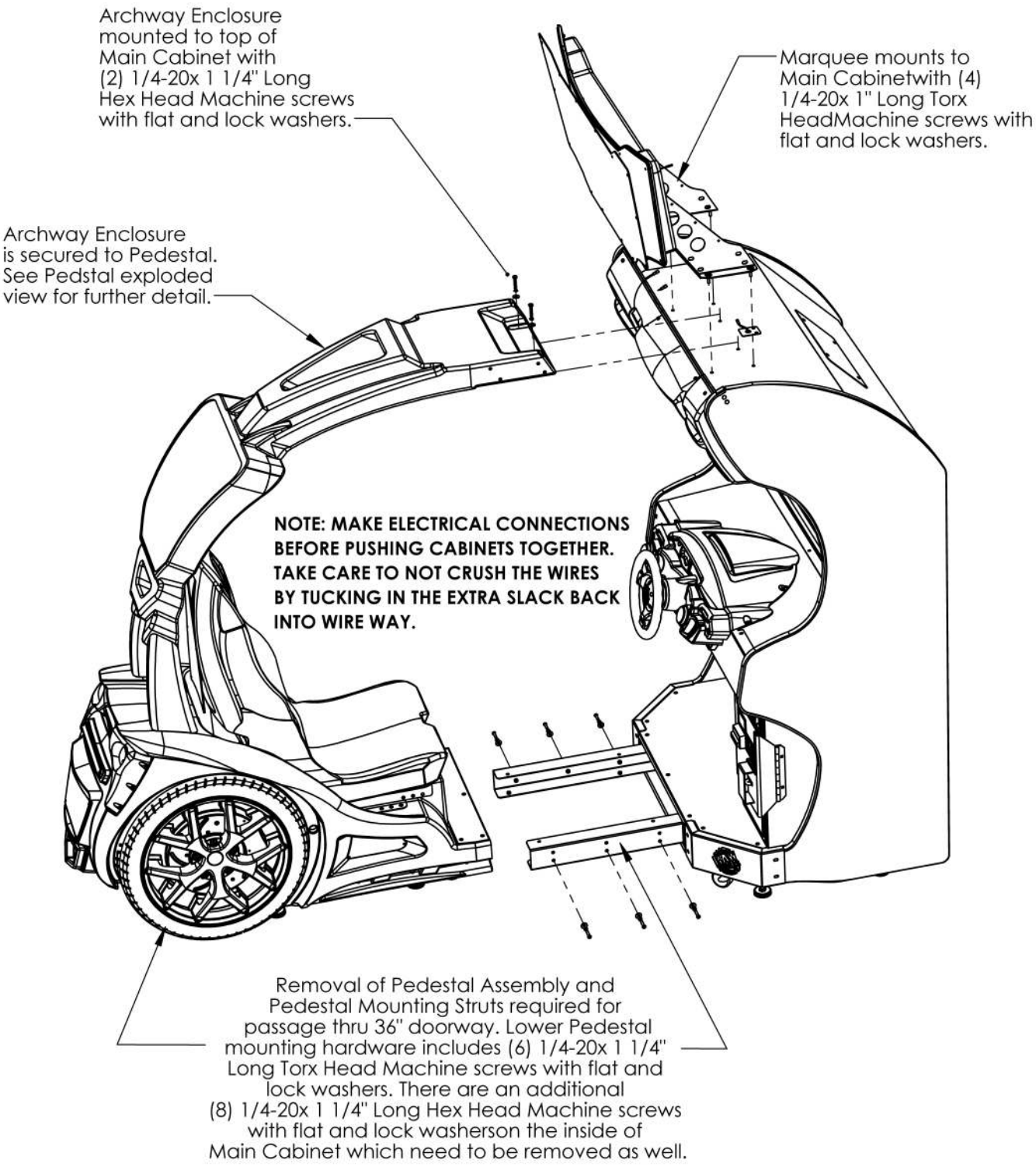
Temperature

50° F to 104° F
(10° C to 40° C)

Humidity

Must not exceed 95% relative humidity

SETUP


Archway Enclosure mounted to top of Main Cabinet with (2) 1/4-20x 1 1/4" Long Hex Head Machine screws with flat and lock washers.
Marquee mounts to Main Cabinetwith (4) 1/4-20x 1" Long Torx HeadMachine screws with flat and lock washers.
Archway Enclosure is secured to Pedestal. See Pedstal exploded view for further detail.
NOTE: MAKE ELECTRICAL CONNECTIONS BEFORE PUSHING CABINETS TOGETHER. TAKE CARE TO NOT CRUSH THE WIRES BY TUCKING IN THE EXTRA SLACK BACK INTO WIRE WAY.
Removal of Pedestal Assembly and Pedestal Mounting Struts required for passage thru 36" doorway. Lower Pedestal mounting hardware includes (6) 1/4-20x 1 1/4" Long Torx Head Machine screws with flat and lock washers. There are an additional (8) 1/4-20x 1 1/4" Long Hex Head Machine screws with flat and lock washerson the inside of Main Cabinet which need to be removed as well.

Check Electrical Settings

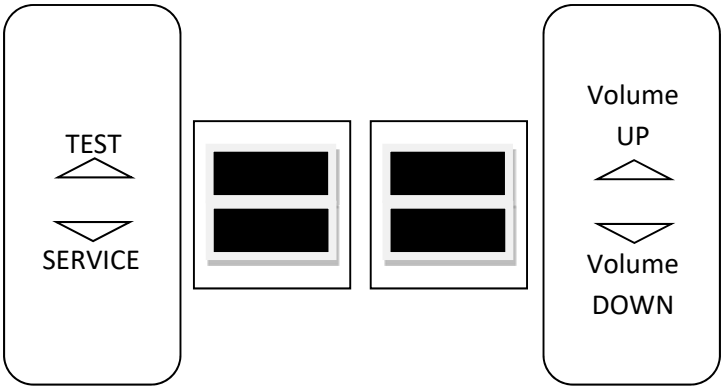
1. Verify the voltage in the nearest AC outlet.
2. Verify the AC outlet ground connection is present and working.

Startup Game

1. Plug in line cord to AC outlet.
2. Turn the power switch to ON.
3. Check that no component is excessively hot or emitting foul odors.
   If not, turn off AC power and disconnect line cord. Refer to the diagnostic section of this manual.

Diagnostics and Adjustments

The Service Button Panel has four buttons, which used to navigate the menu system. Additional test menu navigation options are also displayed on the screen.



TEST button enters diagnostic system**. IMPORTANT NOTE: You must hold down the TEST button for a least 2 seconds to Enter the Test Menu.**

- Either Start button or TEST button selects the highlighted option
- VOL DOWN button or moves down through menu or setting choices. (Service Panel VOL UP button or moves up through menu or setting choices.
- Service Button adds a single credit for each press or returns to previous screen on test mode.
- Test Menu screen navigation instructions and a description of each setting and adjustment option is displayed on the screen. All settings will be automatically saved upon exiting test mode.

Basic Functional Test On Initial Power Up

See the Diagnostic Section for further information.

1. Enter the Switch Test menu and verify all switches function.
2. Enter the Monitor Test menu and verify that video is acceptable.
3. Enter the Sound Test. Verify that speaker output is not distorted or missing.
4. Enter the Coin Meter Test and verify the operation of the coin meter.
5. Enter the Cabinet Lamps Test menu and verify that all cabinet lights work correctly.
6. Enter the Watchdog Test menu. This will automatically reboot the game. Verify that game loads and starts after rebooting.
7. Upon a successful reboot, you are ready to make adjustments to pricing, volume and other functions found in the Adjustments, Audits and Diagnostics section.
8. Take the time to play a test game to make sure that you are satisfied with your settings.

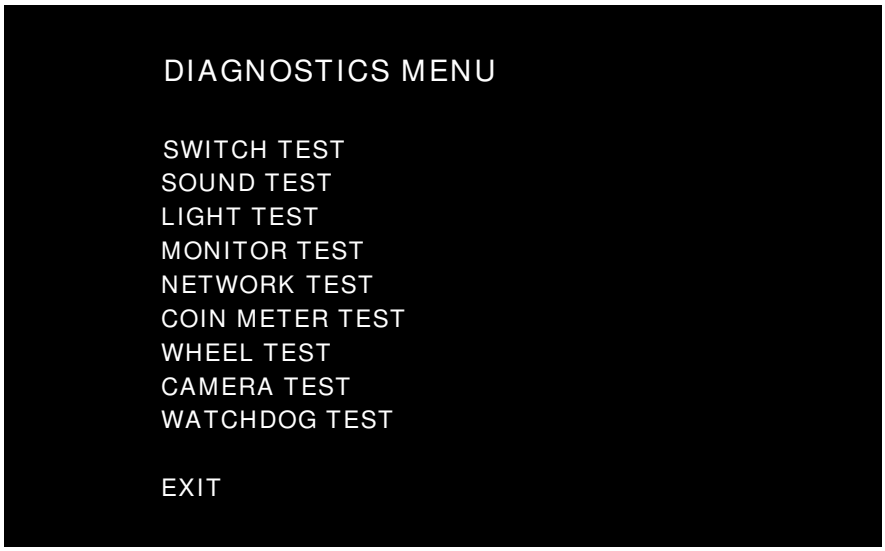
Adjustments, Audits and Diagnostics

Main Menu

Main Menu

Diagnostics Menu

This menu allows all game functions to be verified or diagnosed.

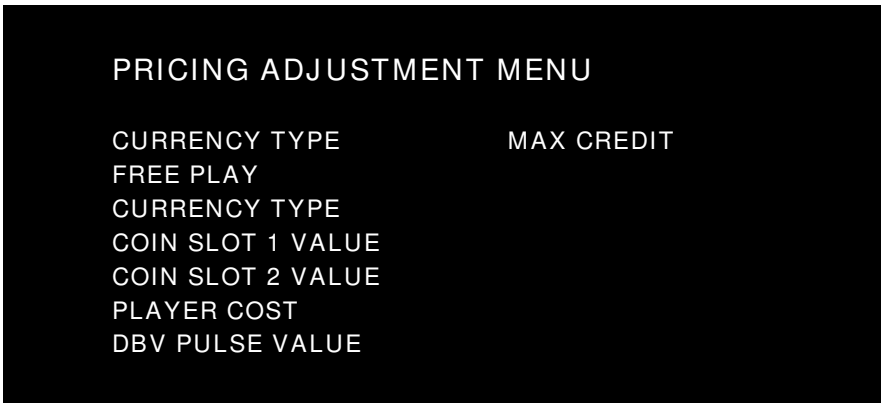


You can improve collections by periodically verifying proper game function and operation.

Main Menu

Pricing Adjustments Menu

This allows customization of coin values, currency denominations, bill pulse and swipe value.



Main Menu

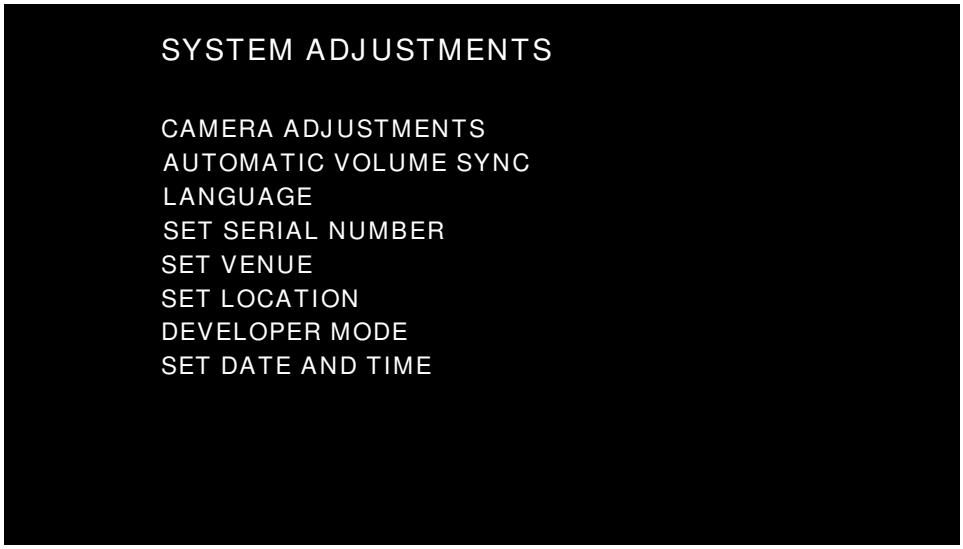
Game Adjustments

This menu allows for customization key game features and functionality.

Main Menu

System AdjustmentS

Adjust settings across linked games. Camera and volume adjustments/settings.



Main Menu

Network Adjustments

Turn Network (Game Linking) feature On or Off. Assign Network ID for each unit.

- "Network machine ID": A unique number identifying this machine from the others. This is also the player's number. (For example, machine ID 1 will be named "Player 1" during a game.)

Main Menu

Audits

Check game audits periodically to detect errors or game related issues. Information here can help diagnose intermittent issues which may affect earnings potential.

Main Menu

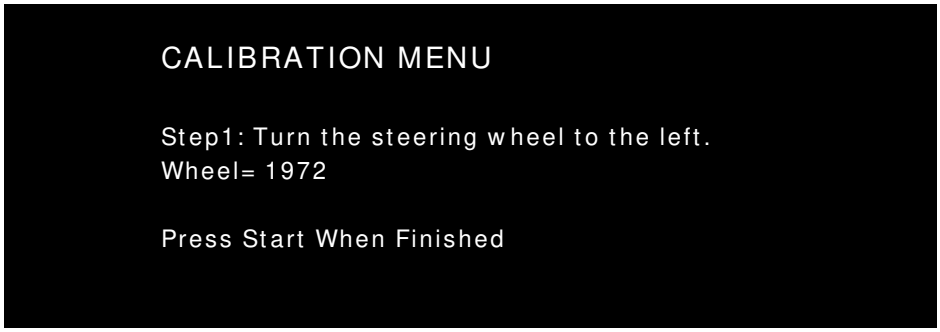
Utilities

Reset Audit items, saved data, credits or perform a factory reset. **Factory Reset will require a controls calibration**.

Main Menu

Calibration

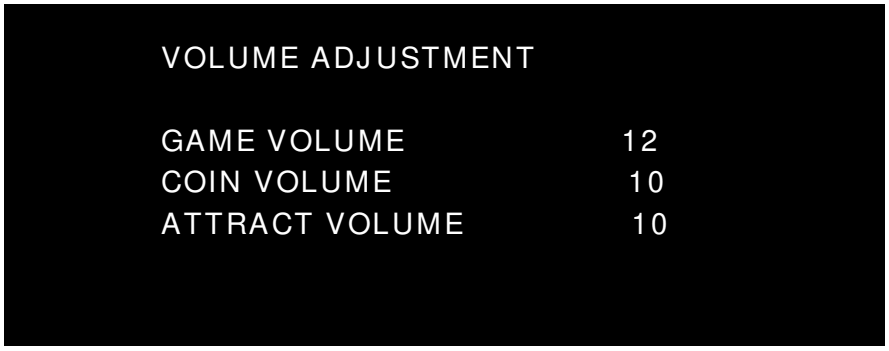
Calibration of controls is an important part of game maintenance and up-keep to ensure maximum earnings. Heavy play might affect the way analog controls behave over a long period of time. Calibrate controls as part of your regular collection and maintenance schedule.



Main Menu

Attract, Coin and Game Volume

Each of the following sound levels are independently controlled to suit your location preference. Attract sound is an important part of creating interested in the game during slow traffic periods. Game volume adds to the player's quality experience as well as generate interest from nearby spectators.

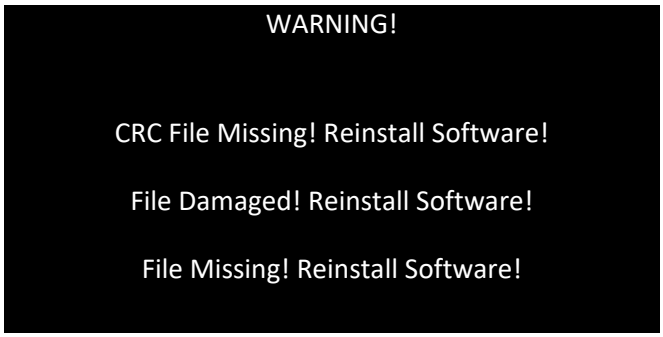


Maintenance

Hard Drive Recovery

Symptoms requiring hard drive recovery include

- File Test reports bad or missing files.
- Game fails to finish loading during startup.
- After resetting the AC power, an error is reported.
- Erratic Game or Attract Mode.
- The following screen:



The only way to repair corrupt files is to reinstall the software as described below:

COMPUTER

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

Do ***not*** use the PC on/off switch. Turn AC power on or off with the cabinet power switch.

1. With game and PC on, verify that the RIO board has power. If not, see Troubleshooting.
2. Open the Coin door.
3. Insert the recovery USB thumb drive (included in your game) into the open USB extension port on the test/service bracket.
4. Turn cabinet power switch to OFF. Wait 30 seconds.
5. Turn cabinet power switch to ON.
6. Select the “Cruis’n Blast” restore version from the menu and follow on screen instructions
7. If recovery does not begin, check to ensure USB Drive is inserted correctly and is not damaged.
8. Initial software loading may take several minutes. Check progress periodically.
   Do not interrupt power or reset the game during recovery.
9. When software has been loaded, a message indicates that restore is complete. When instructed to remove *USB Drive, remove the drive from the PC.*
10. Turn cabinet power switch off.
11. After 30 seconds, turn cabinet power switch on.
12. Game will reboot and enter the Atrract Mode.
13. Start a test game to make sure that game is operating normally.

BIOS Settings/Power Management

NOTICE

The PC ships with correct BIOS settings. Making changes to the BIOS different from the description below may adversely affect game functions.

This BIOS setting lets the PC automatically power up. With the setting enabled, the PC reboots when it detects AC power. This eliminates the need to manually turn the PC back on after power disruption.

Turn AC power on or off with the cabinet power switch. To access the BIOS Settings, you must insert a keyboard and hold the **F10** key while the PC is booting up. From the Menu, Select "BIOS Setup"

1. Turn cabinet power switch off.
2. Open rear of cabinet.
3. Connect a USB keyboard to the PC.
4. While holding the F10 key on the keyboard down, turn cabinet power switch on.
5. When the BIOS menu screen appears, make the following adjustments.
   Note: Below you will find the critical settings that are different than PC BIOS default settings. The settings below are critical for proper operation of the game. All other setting should be left to the PC default and do not require adjustment. For a full list of BIOS options, please contact your distributor.

   - **STORAGE > BOOT ORDER >**
     - UEFI Boot Sources
       - ATPI CD/DVD Drive
       - USB Floppy/CD
       - USB Hard Drive
     - Legacy Boot Sources
       - ATAPI CD/DVD Drive
       - USB Floppy/CD
       - Hard Drive
       - [DISABLED] Network Controller
   - **ADVANCE POWER OPTIONS > POWER-ON OPTIONS >**
     - After Power Loss : ON

Troubleshooting

Warning: Review safety chapter before making any adjustments to game.

Problem	Possible Cause	Solution
Game will not power up.	Game not plugged in	Plug game into AC outlet.
	Game not turned on	Turn on main power switch.
	Game fuse is blown.	Check and replace fuse.
	No power to receptacle	Test AC outlet and plug game into powered outlet.
	PC not turned on.	Turn ON main AC power switch. Depress AC resettable switch. Replace or swap 12VDC power supply or RIO pcb.
	PC BIOS set incorrectly.	See BIOS Settings chapter.
Buttons do not work	Faulty micro switch	Replace the micro switch on the button and re-test. Verify that the wires are connected to the correct spades on the micro switch
	Faulty wiring	Disconnect the cabinet from AC power. Verify that all wires are firmly connected to each button and the PCB. Verify that no wires are frayed or improperly shorting to ground. Verify that wires are connected to the correct spades on the micro switches.
	Faulty PCB	Ensure all connections to PCB are secure. Replace PCB if faulty.
Neither buttons nor audio work	PCB connected to faulty USB port (boot message may indicate not detected)	To test a USB port, turn off the game, disconnect the device from the port, and then connect the game dongle to the port. Reboot the game. A No Dongle message indicates the port is bad. If the game starts, the port is working. After the test, reconnect all devices to the correct USB ports and reboot.
No sound or bad sound	Bad connection	Check connection to speakers.
	Volume set too low	Use VOL UP button on Test panel to raise volume
	Faulty wiring	Verify all wires are firmly connected to the speakers, PCB, and green computer audio port.

		Verify that each wire is connected to the correct port and no wires are frayed or improperly shorting to ground.
	Blown speakers	Remove the grill and inspect each speaker for visible damage. Run the Sound Test from System Tests in the Operator Menu to verify each speaker is working.
	Reversed wires	A weak or low muffled sound is a sign of reversed speaker wires. Check for reversed wires on each speaker.
	Faulty PCB	To verify audio is working at the computer, connect stereo headphones to the green computer audio port.
Constant low audio hum	Faulty power supply	Check external DC supply and the PC supply.
	Open ground	Check all ground wires in cabinet. Ensure AC wall outlet is properly grounded
LCD display flicker or fail to light.	Bad connection	Check for snug connection at inverter or under topper bracket.
	Loose end caps	Tighten end caps.
Game does not load. Hard drive test reports “bad” or “missing” files. Game fails to finish loading. After resetting, game still reports an error. Game suggests inserting a boot **(USB DRIVE)** Erratic game mode or attract mode. WARNING! Data Files Corrupted. (Game Operation May Become Unstable.) Use “Test” Switch to Enter Test Mode and Run “File Test.” Press Start to Continue.	Hard drive failure	Recover hard drive. See Hard Drive Recovery procedure in Maintenance section.
Problem	**Possible Cause**	**Solution**
Game resets.	Bad file.	Run File Test. Restore hard drive.

Coin meter does not click during Test.	No pulse to meter	Check wiring from meter to RIO board.
	Faulty meter	Replace coin meter

Improper number of credits given when coins or bills are inserted	Incorrect setting in Adjustments	Adjust settings
	Faulty wiring	Disconnect cabinet from AC power. Verify wires are firmly connected to coin mech and bill validator and ground wires are properly connected. Verify no wires are frayed or shorting to ground.
	Faulty coin mech	Verify coin mech is not jammed. Ensure coin mech is properly aligned and latched to coin door.

Coin meter does not work	Blown fuse(s) on RIO PCB	Replace 5V on RIO PCB

Exits Test Mode every 3 seconds	Test button stuck in ON position	Slide or toggle button off after Test Menu appears

NO VIDEO message	Video cables not plugged in properly	Reattach and tighten power and video cable to monitor.

No Signal	Video or power cable not secure	Check and secure cable.
	PC not turned on	Turn PC power switch on. Ensure IEC cable tightly plugged in. Trace cable back to source to ensure continuity.

Dongle Not Present	Dongle missing or disconnected	Find dongle cable and reseat in USB port
	Faulty USB port	Insert dongle cable in different USB port

Connect RIO Board or *RIO Board Missing*	USB cable disconnected	Check USB connection from PC to RIO board
	No power to RIO board	Check for proper voltage (+5V, +12V) at P2 connector

	Possible Cause	**Solution**
Problem	Networking not enabled	Switch Network to "ON" in test menu => Network Adjustments
Single game won't link to other linked games	Two machines have the same network ID	Make sure all linked machines have different IDs. Make sure to allow the game to reboot itself (not power-cycle!) after changing network IDs.
	Networking not enabled	Switch Network to "ON" in test menu of all games => Network Adjustments
No games will link	Network hub or switch not powered.	Make sure network switch has power.

	Network hub or switch is faulty.	Replace network hub or switch.
	Multiple machines have the same network ID	Make sure all linked machines have different IDs. Make sure to allow the game to reboot itself (not power-cycle!) after changing network IDs.
No games will link Machine disconnected mid-game	Two games linked directly with network cable are linked with faulty cable.	If not using a hub or switch, make sure two games are linked with cross-over network cable.
	Temporary network failure	Allow the game to return to attract mode or the test menu. It will reconnect automatically.

SYSTEM DIAGRAM
AND
MECHANICAL ILLUSTRATIONS

Cruis'n ™ Blast™ & © 2016 Nintendo.

CRUIS'N BLAST — SYSTEM DIAGRAM

FAN 12V
12V
GND
CABINET COOLING FAN 3x

PARALLEL PORT
DB25
TO MTR DRIVE BRD
AUDIO OUT

TO DISPLAY
DVI
VIDEO OUT

USB-A
USB-A
USB-A
USB-A
SECURE KEY
USB CAMERA

RI/O

P1
1 12V FUSED
2 12V FUSED
3 5V FUSED
4 GND
5 GND
6 12V FUSED
7 12V FUSED
8 5V FUSED
9 GND
10 GND

1 12V AUDIO IN
2
3 GND AUDIO
4 GND DIG
5 GND DIG
6 GND DIG
7 5V IN
8
9
10 5V STBY
11
12 12V IN
13
14 GND DIG
15 GND PC
16 GND PC
17
18
19 5V STBY SW
20 PC PWR ON
P2

P11
USB-B

1
2 P1START
3
4
5
6
7
8 TUNES
9
10
11
12
13 VIEW 1
14
15
16 START1 LMP
17
18 VIEW 1 LMP
19 LEADER BOX
20 MARQUEE,DASH,SEATBACK,LICENSE
21 TUNES LMP
22 CAMERA LED
P8

1 STEER
2 GAS
3
4
5 AD 5V
6 AD GND
P6

AUDIO IN
P4
1 COIN_1 — GRY BRN
2 COIN_2 — GRY BLU
3 DBV — GRY ORG
4 TEST — BLU
5 SERVICE — VIO
6 VOL + — ORG RED
7 VOL - — ORG
8
9
10
11
12
13
14
15
16
17
18

P5
1 ROW 4 — BLU BLK
2 ROW 3 — BLU BRN
3 ROW 2 — BLU RED
4 ROW 1 — BLU ORG
5
6
7
8
9 COL 0 — BLU YEL
10 COL 1 — BLU GRN
11 COL 2 — BLU
12
13
14
15
16

P9
1 L SPKR(+) — GRY RED
2 L SPKR(-) — GRY BLK
3 R SPKR(+) — BRN RED
4 R SPKR(-) — BRN RED
5
6 WOOFER(+) — RED YEL(X2)
7 WOOFER(-) — BRN YEL(X2)
8

P7
1
2
3
4
5 RED
6
7
8
9
10
11
12
13 TAIL PIPE — PUR GRN
14 WHEEL RED — WHT RED
15 WHEEL GRN — WHT ORG
16 WHEEL BLU — WHT BLU
17 CAB RGB RED — PNK RED
18 CAB RGB GRN — PNK GRN
19 CAB RGB BLU — PNK BLU
20 TAIL LIGHT — PNK GRY
21 PED BLU LED
22
23
24

GND
DBV
12V
COIN 1
COIN 2
TEST
VOL+
VOL-
SERVICE
5V
BRN YEL
METER 999999
COIN_MTR
COIN DOOR
FIELD GND

KEYPAD
1 2 3 4 5 6 7
GRN ORG · RED · GRN BRN · GRN BLK · GRN BLU · GRN · GRN YEL
KEY-TEK

LEFT
RIGHT
PEDESTAL INTERFACE
RED YEL
BRN WHT
RED BLU
BRN BLU
(2X) 8 OHM SPEAKER IN PARALLEL
P1 AND P2 SEAT RUMBLE

RED — WHT
WHT — RED
BLK WHT — WHT
STEER

RED — RED
WHT — WHT
BLK WHT — BLK WHT
GAS -HALL EFFECT SENSOR

TO GENERAL ILLUMINATION (ALL CIRCUITS ARE FUSED USING 5A SLO-BLO)
TO DASH ASSEMBLY

(1)
12V
GND — BLK
12V — ORG

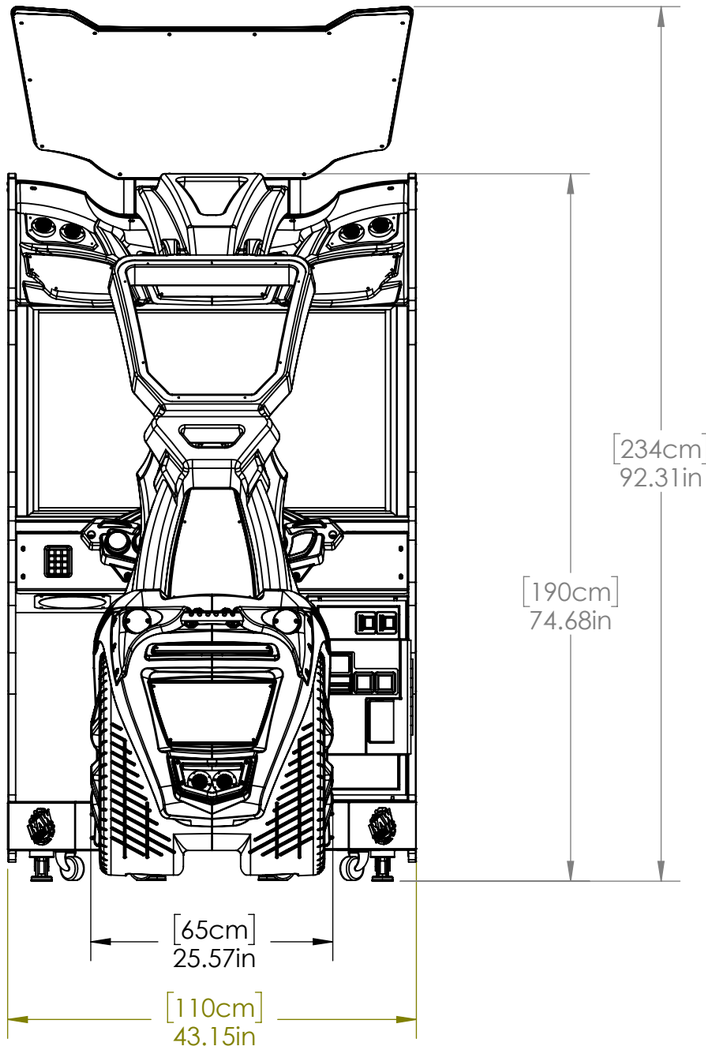
TO STEERING MOTOR
RED WHT 18AWG
BLK WHT 18 AWG
MOTOR OUT
MOTOR GND
STEER MTR DRIVE BD
18VAC MAX
+18V
0V
BLU BLK 18AWG
BLU 18AWG
PARALLEL PORT
TO PC

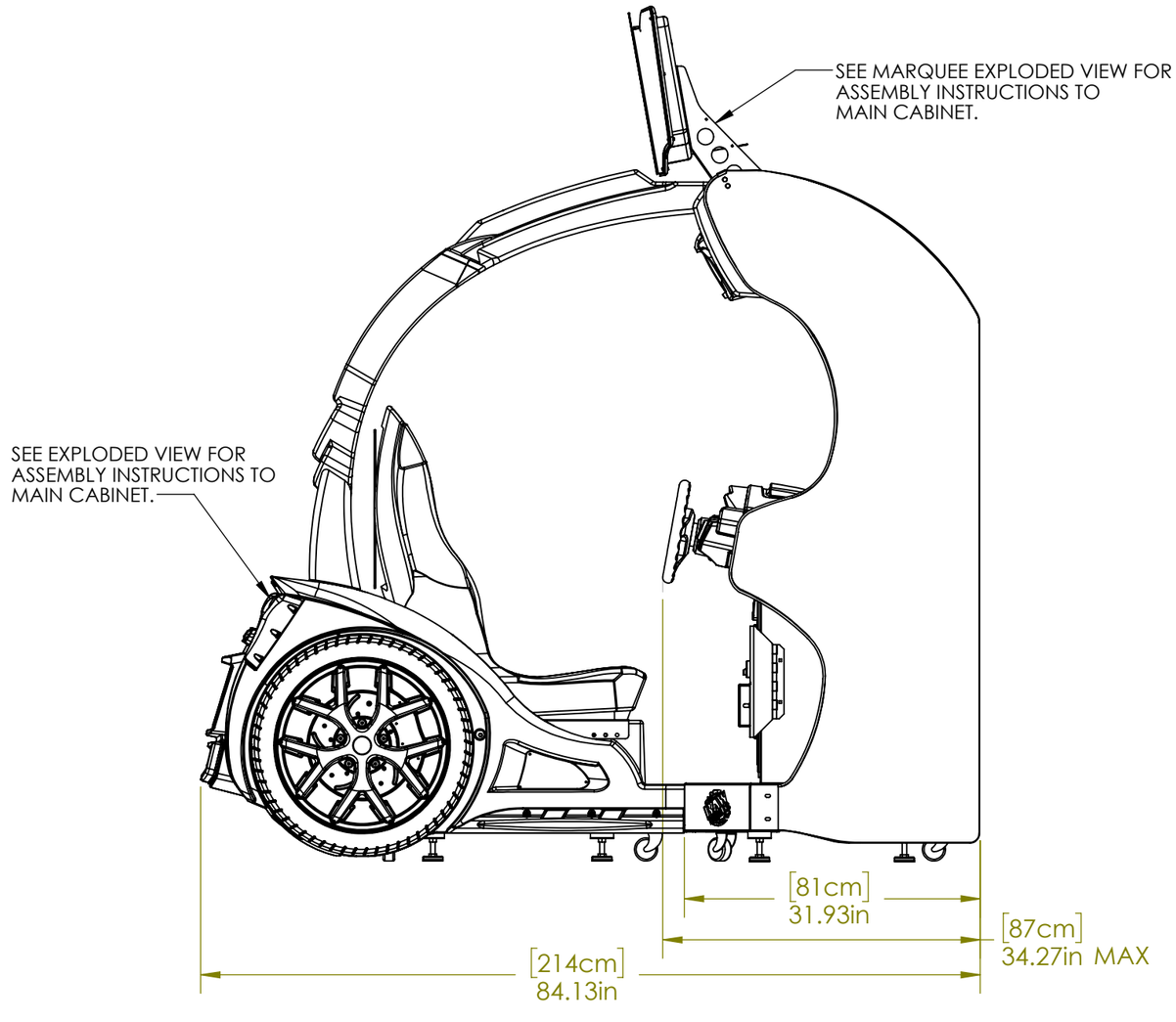
**5VDC REGULATOR PCB
12V
GND
RED
5V
5V
12VDC 320WATT
POWER SUPPLY
12V — ORG WHT
12V — ORG WHT

PC AC POWER
FG
~ ACV(N)
~ ACV(L)
GRN
VIO ORG
PC WATCHDOG RELAY
MAGNECRAFT
PN 6210AXXSZS-DC3
CAUTION: HIGH VOLTAGE!
~120/240 ACV
AC XFORMER
CAUTION: HIGH VOLTAGE!

CRUIS'N GAME ASSEMBLY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	MANUAL ASSEMBLY DETAILS & INSTRUCTIONS	7/20/2016	MJD





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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

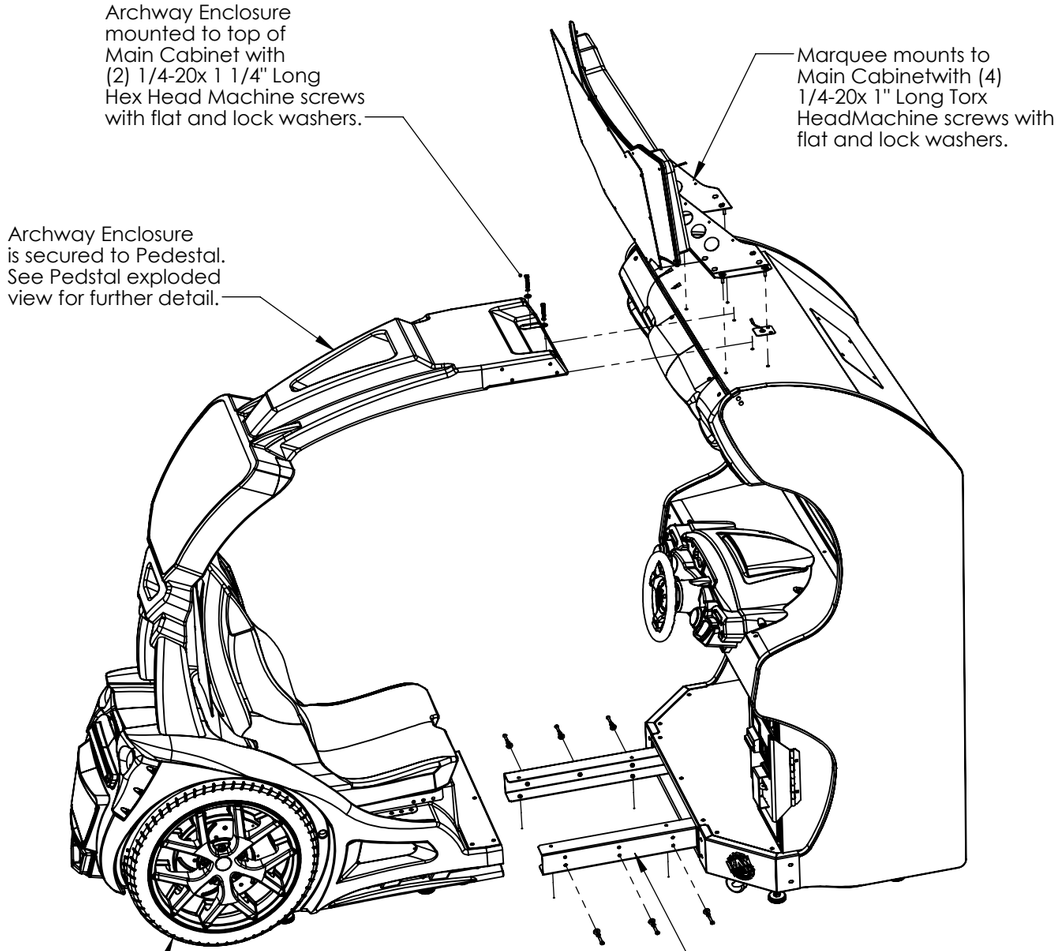
RAW THRILLS, INC

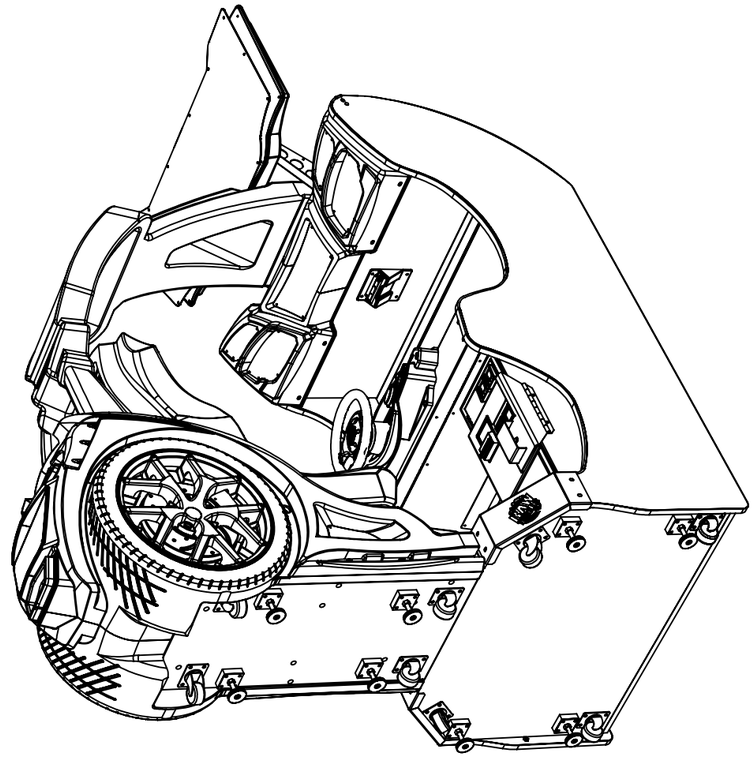
TITLE:
CRUIS'N ASSEMBLY DETAILS

SIZE	DWG. NO.	REV
B	CRUIS'N	1

SCALE: 1:16 WEIGHT: SHEET 1 OF 10

PEDESTAL AND MARQUEE MOUNTING TO MAIN CABINET ASSEMBLY





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		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

RAW THRILLS, INC

TITLE:

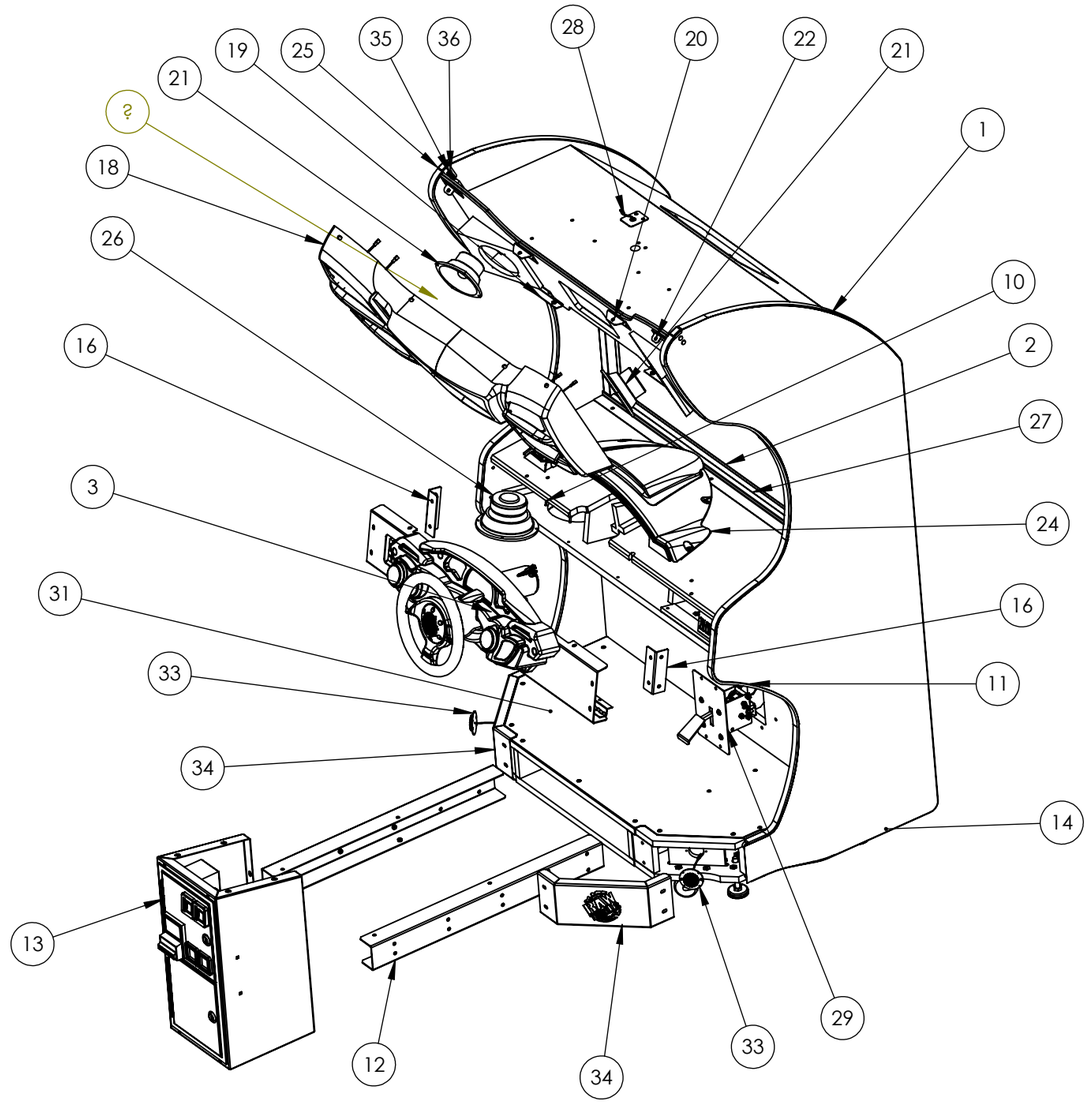
Cruis'n Assembly Details

SIZE	DWG. NO.	REV
B	Cruisn-Final-Assembly-Dwgs	1

SCALE: 1:16 WEIGHT: SHEET 2 OF 10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	601-00743-01	CRUISN Main Cabinet	1
2	Cruisn_Monitor_Assy	42"-Cruis'n_Monitor_Assembly	1
3	Cruisn-Dash-Assy	Cruisn-Dash-Assy (See Exploded)	1
4	Cruisn_RIO_ASSY	Cruis'n RIO/Board set Assembly	1
5	PC-Strap Assy	PC-Strap Assy.SLDASM	2
6	FanAssy	DC fan and wire guard assembly	3
7	Moto-GP_A-C Plate Assy	Moto-GP_A-C Plate Assembly	1
8	601-00746-01	Cruis'n Mid Back door	1
9	Cruisn Back Door Assy	Moto-GP 42" Back Door Assy	1
10	600-01786-01	GRILL-WOOFER-JP-55	1
11	603-00762-87	LED Cabside-Tmolding (87")	2
12	600-01777-01	Cruis'n Pedestal Strut (2) req'd	2
13	Cruis'n Vault Assy	Cruis'n Vault Assy	1
14	800-00007-00	2 -1/2" CASTER	2
15	800-00003-00	Leg Leveler Plate	2
16	600-01788-01	Cruis'n Dash Mounting Bracket (2)	2
17	LED-EXTRUSION-ASSY-40cm_16in	LED-EXTRUSION-ASSY-40cm (16in) Long	1
18	Speaker Bezel-Housing-Assy	Speaker Bezel-Housing-Assy (See Exploded)	1
19	600-01784-01	Cruis'n Speaker Bezel Bracket-Lower(2) req'd	2
20	600-01783-01	Cruis'n Speaker Bezel Bracket-Middle(2) req'd	2
21	2-1-10-00-00-000	5.25 Full Range Speaker, 8 ohm	2
22	600-01782-01	Cruis'n Speaker Bezel Bracket-Upper (2) req'd	2
23	600-01787-01	Cruis'n Rear Access plate	1
24	603-00778-01	Cruis'n-Hood-InjMolded	1
25	600-01795-01	LED T-Molding Clip (Straight)	2
26	2-1-11-00-00-000	SPEAKER-WOOFER-6.5" 4 OHm	1
27	600-01800-01	Cruis'n- Lower Monitor Bracket	1
28	01-1842	Moto-GP Header Harness Plate w Grommet	1
29	604-00052-01	Gas Pedal Assy	1
30	Cruis'n CAMERA BOX ASSY	Cruis'n CAMERA BOX ASSY (See Exploded)	1
31	600-01875-01	Cruis'n-Cabinet Tread Plate	1
32	RBG Camera Light Strip Assy	RBG Camera Light Strip Assy (4")	1
33	500-00204-01	RED LED Superpuck PCB	2
34	Cruis'n-Kick Plate Assy	Cruis'n-Kick Plate Assy COMMON 2 REQD	2
35	92356A263	92356A263/#8-32_1-1/4L Carriage Bolt Blk	4
36	94831A611	94831A611 #10-32 , 1/2" Flange Nut	4
37	810-00053-01-with base mount	Test Service Button Assy	1
38	600-00891-01	Securing Nylon Strap Plate	4
39	850-00021-00	HP705.SLDPRT	1
40	Foam Pad		1
41	600-01917-01	Cruis'n-UNDERDASH CLEAR PETG	1

CRUIS'N MAIN CABINET ASSEMBLY



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			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

RAW THRILLS, INC

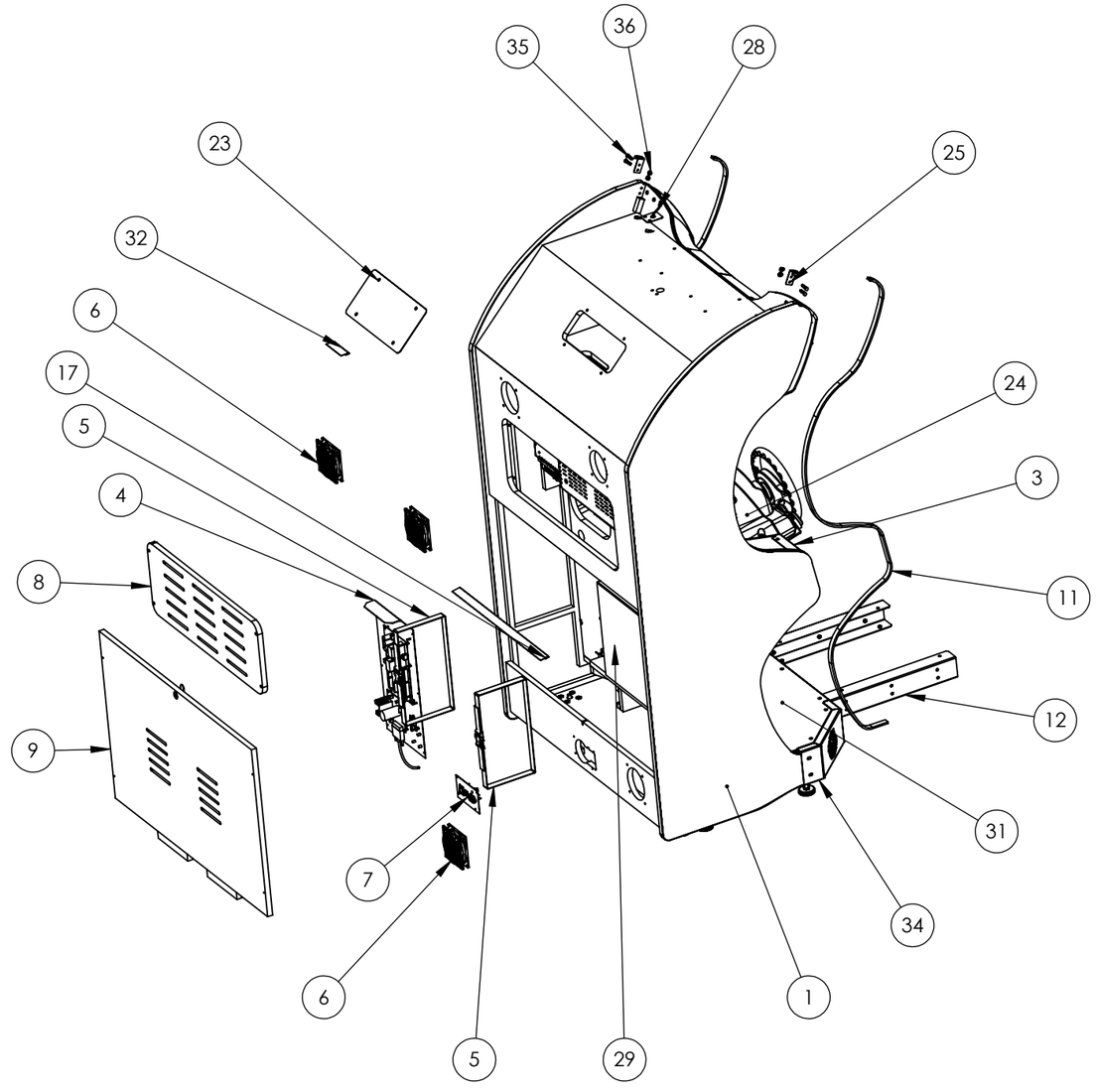
TITLE:

CRUIS'N-MAIN CABINET ASSY

SIZE	DWG. NO.	REV
B	Cruis'n Assy Details	1

SCALE: 1:16 | WEIGHT: | SHEET 3 OF 10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	601-00743-01	CRUISN Main Cabinet	1
2	Cruisn_Monitor_Assy	42"-Cruis'n_Monitor_Assembly	1
3	Cruisn-Dash-Assy	Cruisn-Dash-Assy (See Exploded)	1
4	Cruisn_RIO_ASSY	Cruis'n RIO/Board set Assembly	1
5	PC-Strap Assy	PC-Strap Assy.SLDASM	2
6	FanAssy	DC fan and wire guard assembly	3
7	Moto-GP_A-C Plate Assy	Moto-GP_A-C Plate Assembly	1
8	601-00746-01	Cruis'n Mid Back door	1
9	Cruisn Back Door Assy	Moto-GP 42" Back Door Assy	1
10	600-01786-01	GRILL-WOOFER-JP-55	1
11	603-00762-87	LED Cabside-Tmolding (87")	2
12	600-01777-01	Cruis'n Pedestal Strut (2) req'd	2
13	Cruis'n Vault Assy	Cruis'n Vault Assy	1
14	800-00007-00	2 -1/2" CASTER	2
15	800-00003-00	Leg Leveler Plate	2
16	600-01788-01	Cruis'n Dash Mounting Bracket (2)	2
17	LED-EXTRUSION-ASSY-40cm_16in	LED-EXTRUSION-ASSY-40cm (16in) Long	1
18	Speaker Bezel-Housing-Assy	Speaker Bezel-Housing-Assy (See Exploded)	1
19	600-01784-01	Cruis'n Speaker Bezel Bracket-Lower(2) req'd	2
20	600-01783-01	Cruis'n Speaker Bezel Bracket-Middle(2) req'd	2
21	2-1-10-00-00-000	5.25 Full Range Speaker, 8 ohm	2
22	600-01782-01	Cruis'n Speaker Bezel Bracket-Upper (2) req'd	2
23	600-01787-01	Cruis'n Rear Access plate	1
24	603-00778-01	Cruis'n-Hood-InjMolded	1
25	600-01795-01	LED T-Molding Clip (Straight)	2
26	2-1-11-00-00-000	SPEAKER-WOOFER-6.5" 4 OHm	1
27	600-01800-01	Cruis'n- Lower Monitor Bracket	1
28	01-1842	Moto-GP Header Harness Plate w Grommet	1
29	604-00052-01	Gas Pedal Assy	1
30	Cruis'n CAMERA BOX ASSY	Cruis'n CAMERA BOX ASSY (See Exploded)	1
31	600-01875-01	Cruis'n-Cabinet Tread Plate	1
32	RBG Camera Light Strip Assy	RBG Camera Light Strip Assy (4")	1
33	500-00204-01	RED LED Superpuck PCB	2
34	Cruis'n-Kick Plate Assy	Cruis'n-Kick Plate Assy COMMON 2 REQD	2
35	92356A263	92356A263/#8-32_1-1/4L Carriage Bolt Blk	4
36	94831A611	94831A611 #10-32 , 1/2" Flange Nut	4
37	810-00053-01-with base mount	Test Service Button Assy	1
38	600-00891-01	Securing Nylon Strap Plate	4
39	850-00021-00	HP705.SLDPRT	1
40	Foam Pad		1
41	600-01917-01	Cruis'n-UNDERDASH CLEAR PETG	1



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			ENG APPR.		
			MFG APPR.		
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		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

RAW THRILLS, INC

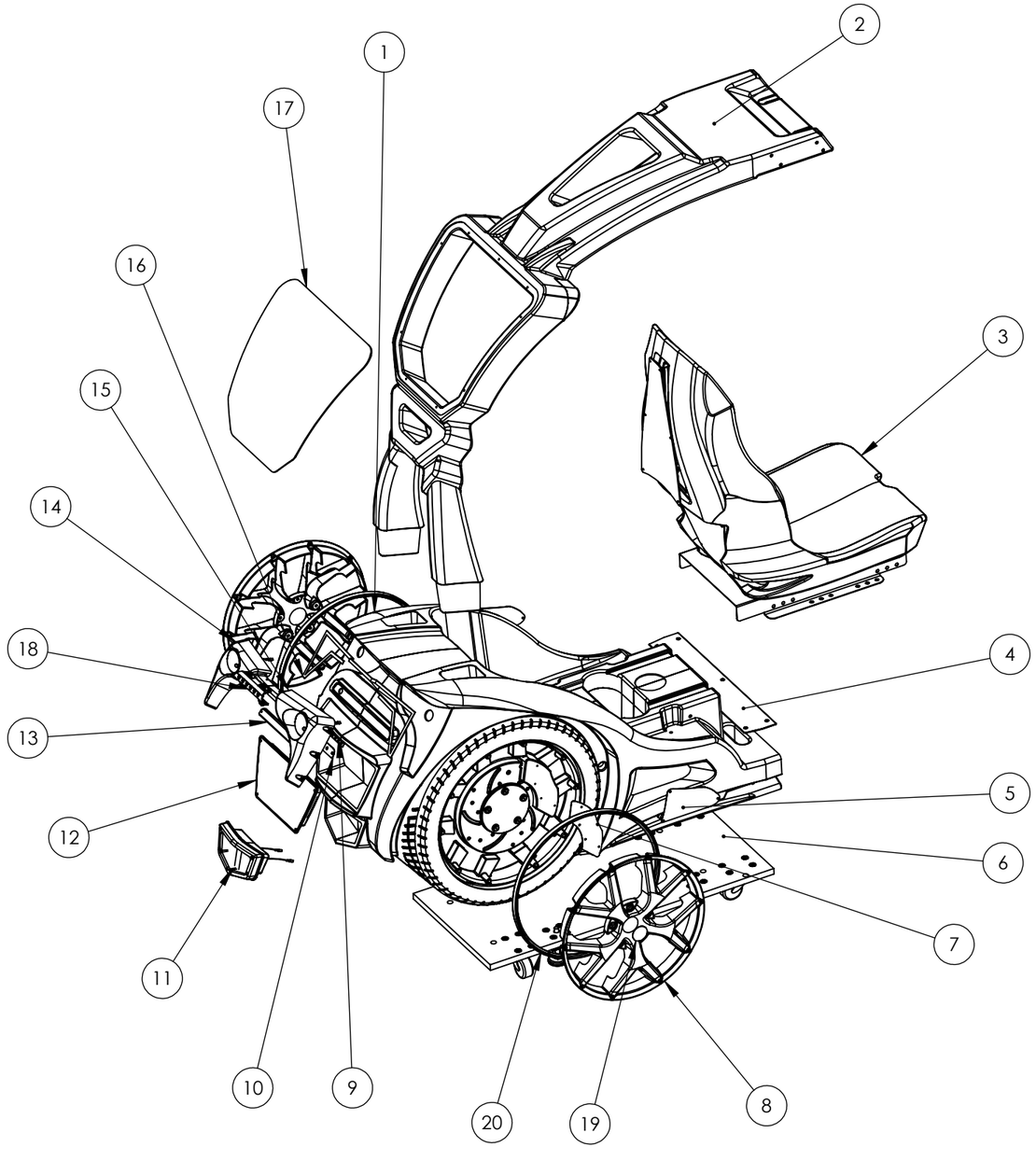
TITLE:

CRUIS'N-MAIN CABINET ASSY

SIZE	DWG. NO.	REV
B	Cruis'n Final Assy	1

SCALE: 1:16 WEIGHT: SHEET 4 OF 10

CRUIS'N PEDESTAL ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	603-00774-01	CRUIS'N SEAT PEDESTAL	1
2	603-00775-01	Cruis'n-UpperPedestal Arch-RotoMolded	1
3	CruisnSeatAssy	CruisnSeatAssy (See Details)	1
4	600-01876-01	Cruis'n-Pedestal Tread Plate	1
5	600-01885-01	Cruis'n-Pedestal Side Grill (2) req'd	2
6	Cruis'n Caster Panel Assy	Cruis'n Caster Plate Assy	1
7	606-01206-01	Cruis'n-Brake Caliper (2) Req'd	1
8	603-00769-01	Cruis'n - Wheel / Chrome (2) req'd	2
9	500-00113-10	Cruis'n - Brakelight RGB LED 10" (waterproof)	1
10	600-01881-01	Cruis'n-Ped Horizontal Light Mask	1
11	Cruis'n Tail Pipe-Assy	Cruis'n Tail Pipe-Assy (see exploded)	1
12	Cruis'n License-Plate-Assy	Cruis'n License-Plate-Assy (see exploded)	1
13	600-01882-01	Cruis'n-Ped Horizontal Light Overlay	1
14	RearTailLightAssy-L	RearTailLightAssy-L	1
15	RearTailLightAssy-R	RearTailLightAssy-R	1
16	500-00162-01-122CM	122CM Tail Light White LED.SLDPRT	1
17	606-01155-01_CURVED	Cruis'n-Rear Window (screened PETG)	1
18	603-00803-01	Cruis'n - Center Tail light Cover (IM)	1
19	606-01214-01	Cruis'n - Rnd Wheel Emblem (2)	2
20	WHEEL-LED T-MOLDING-ASSY	WHEEL-ROB -LED T-MOLDING-ASSY	2

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		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

RAW THRILLS, INC.

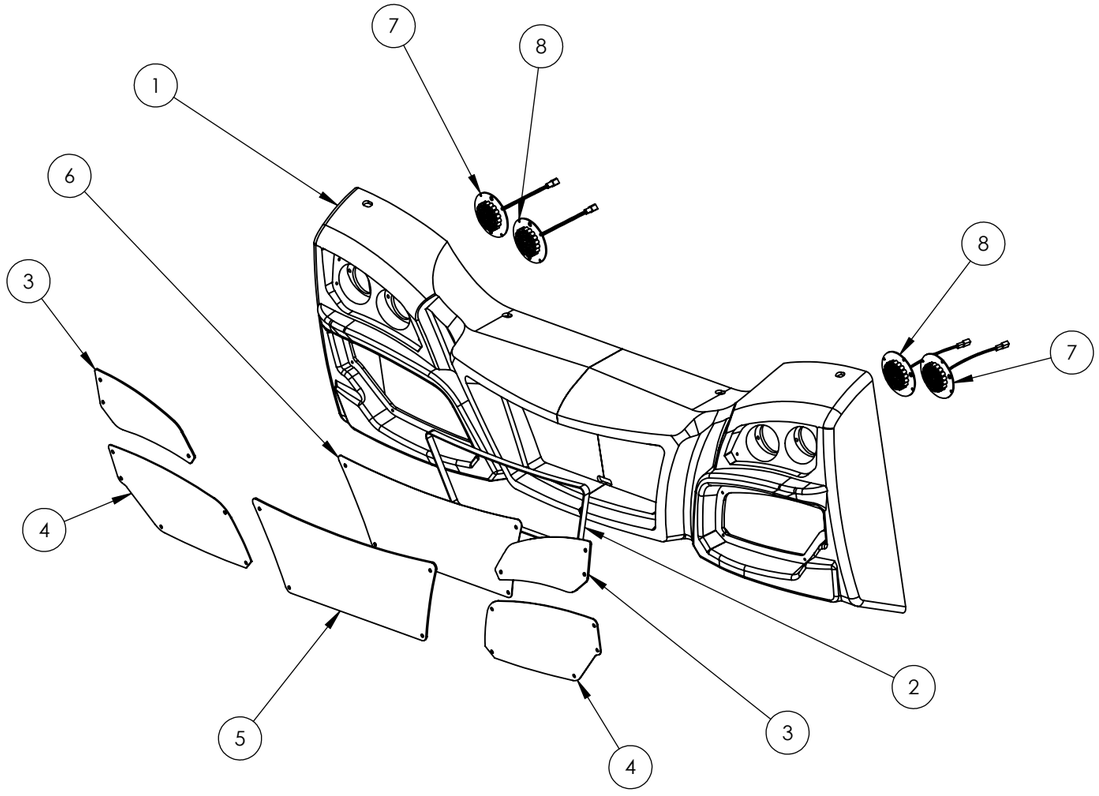
TITLE:

CRUIS'N ASSEMBLY DETAILS

SIZE	DWG. NO.	REV
B	Cruis'n Assy Details	1

SCALE: 1:16 WEIGHT: SHEET 5 OF 10

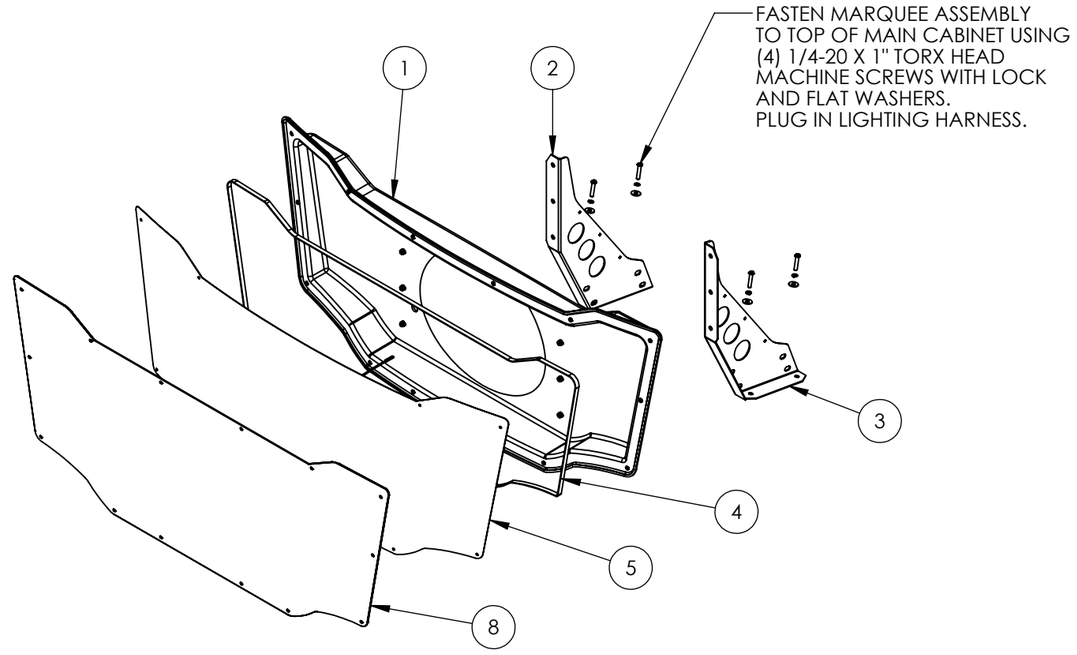
CRUIS'N SPEAKER BEZEL ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	603-00777-01	Cruis'n-Speaker Bezel-Vac Formed-RED	1
2	500-00162-73	LED Strip White w/Foam Tape 73CM	1
3	600-01878-01	Cruis'n-Bezel Light Lens (2) Req'd	2
4	600-01769-01	Cruis'n Speaker Grille (2)	2
5	600-01839-01	Cruis'n-Leader Overlay Panel	1
6	606-01121-01	Cruis'n-Leader Overlay Panel	1
7	500-00222-01	YELLOW LED Superpuck PCB	2
8	500-00221-01	PURPLE LED Superpuck PCB	2

CRUIS'N MARQUEE ASSEMBLY

SHIPPED SEPARATE-ASSEMBLY TO CABINET REQUIRED



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	603-00776-01	Cruis'n Marquee Vac Form w Inserts	1
2	600-01766-01	Cruis'n Header Bracket L	1
3	600-01765-01	Cruis'n Header Bracket R	1
4	500-00162-100	Cruis'n Marquee White LED Strip (100")	1
5	606-01124-01-	Cruisn Marquee Translight	1
6	600-01838-01-	Cruis'n-Marquee-Clear overlay	1
7	TORX 1-1_4	TORX 1-1/4 INCH, LOCK AND FLAT WASHER	4
8	600-01838-01	Cruisn Marquee Translight	1

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FINISH

NEXT ASSY | USED ON

APPLICATION | DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

RAW THRILLS, INC

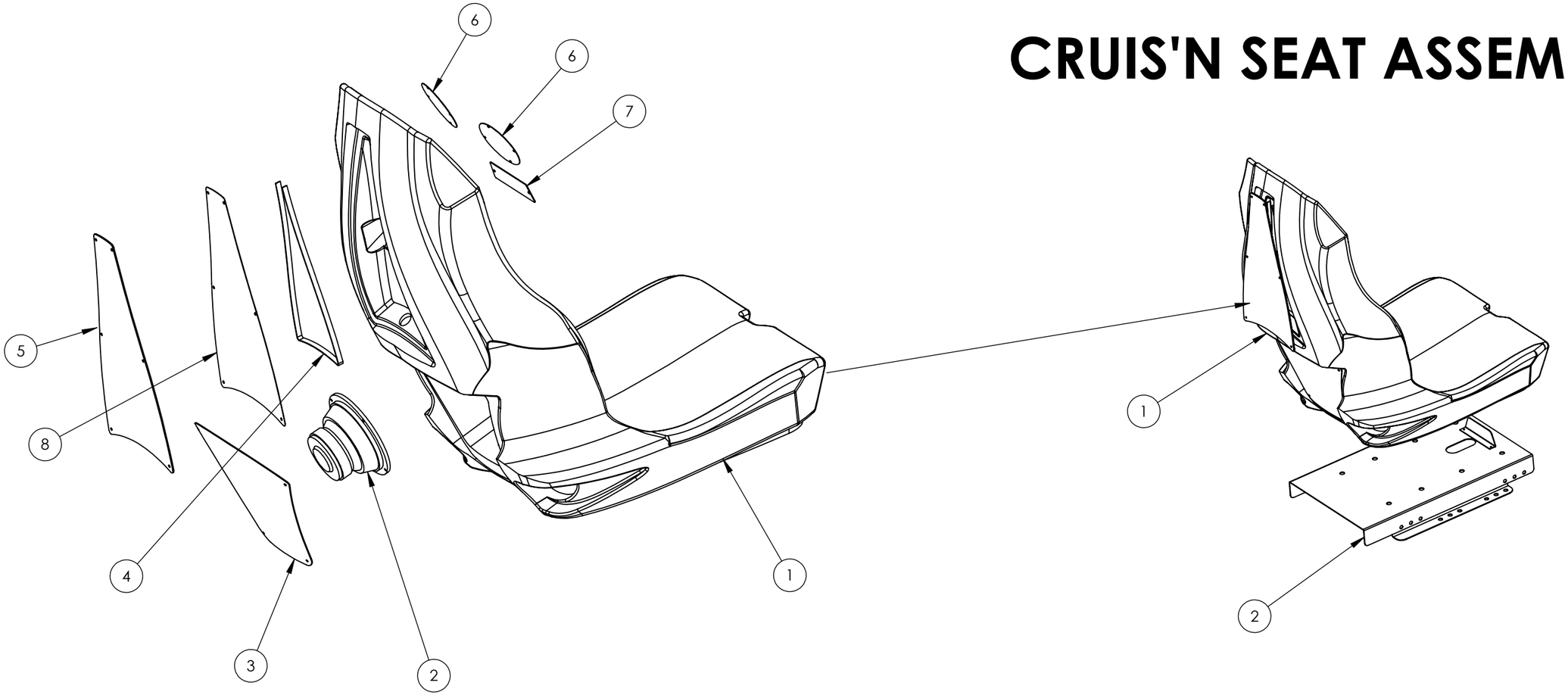
TITLE:

CRUIS'N-MARQUEE ASSY

SIZE	DWG. NO.	REV
B	CRUIS'N ASSY DETAILS	1

SCALE: 1:16 | WEIGHT: | SHEET 6 OF 10

CRUIS'N SEAT ASSEMBLY



CRUIS'N SEAT SUB-ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	603-00523-01	PLASTIC-SEAT-RED	1
2	2-1-11-00-00-000	SPEAKER-WOOFER-6.5" 4 OHm	1
3	600-00106-01-	WOOFER-GRILL	1
4	500-00162-01-86CM	Rear Seat White LED	1
5	600-01840-01-	Cruisn Seatback Clear Overlay	1
6	600-00105-01-	SEAT-HEADREST-SPEAKER-GRILL	2
7	600-01886-01	Cruis'n-Seat Blockout Plate	1
8	606-01122-01	Cruis'n Seatback Translight	1
9	600-01840-01	Cruis'n Seatback Clear Overlay	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CRUIS'N_SEAT-ASSY	CRUIS'N_SEAT-ASSY (see exploded)	1
2	600-01785-01	Cruis'n Seat Mounting Bracket-WELD	1

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MFG APPR.		
Q.A.		

COMMENTS:

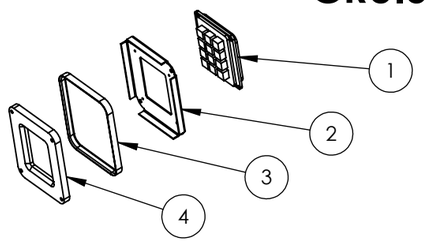
RAW THRILLS, INC

TITLE:
CRUIS'N SEAT ASSY DETAILS

SIZE	DWG. NO.	REV
B	CRUIS'N DETAILS	1

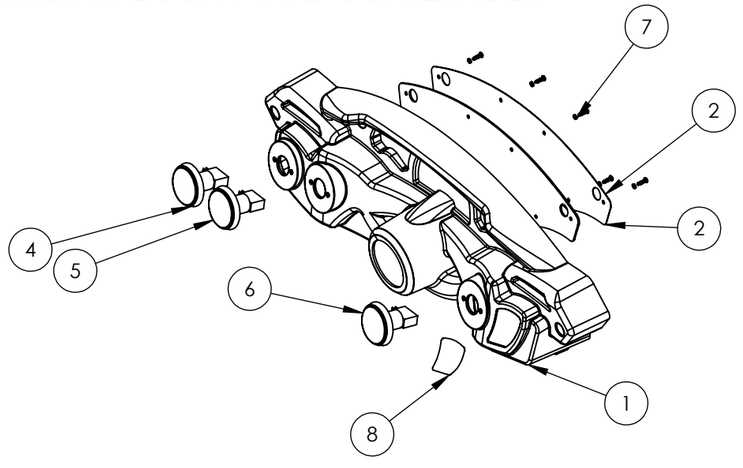
SCALE: 1:16 | WEIGHT: | SHEET 7 OF 10

CRUIS'N KEYPAD-ASSEMBLY



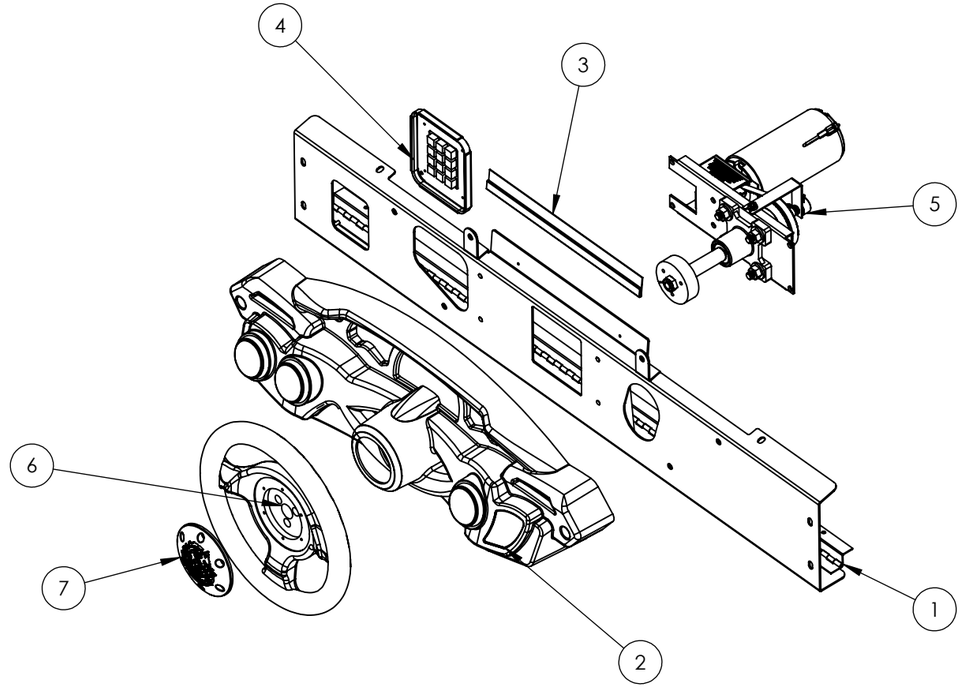
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	2-1-14-00-00-000	Telephone Keypad	1
2	600-01877-01	Cruis'n-Auxiliary Keypad Plate	1
3	500-00074-01	45 CM X1 RGB LED WEATHERPROOF Strip, Keypad (18")	1
4	600-01884-01	Cruis'n-Keypad Edgeglow	1

CRUIS'N DASH SUB-ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	603-00770-01	Cruis'n-Dash-InjMolded	1
2	606-01120-01	Cruisn Instrument Panel-White Styrene 30 mil	1
3	600-01843-01	Cruis'n-Dash Inst Panel-Clear overlay	1
4	702-00068-01	ROUND-TUNES BUTTON-ORG	1
5	702-00067-01	ROUND-VIEW BUTTON-BLUE	1
6	702-00066-01	ROUND-START BUTTON-GREEN	1
7	6-32 SCREW	6-32 PlasticScrew&NeopreneWasher	6
8	606-01119-01	Dash-Right Decal	1

CRUIS'N DASH ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	600-01699-01-ASSY	Cruis'n Control Panel Assembly	1
2	Dash-Shell-Assembly	Dash-Shell-Assembly(see exploded)	1
3	LED-EXTRUSION-ASSY-12in	LED-EXTRUSION-ASSY-12in	1
4	Cruis'n Keypad Assy	Cruis'n Keypad Assy (see exploded)	1
5	604-00002-00	HAPP-FFB-STEERING-ASSY	1
6	2-1-03-00-00-001	Happ Steering Wheel	1
7	603-00789-01	Cruis'n Steering Wheel Cap	1

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MFG APPR.		
Q.A.		

COMMENTS:

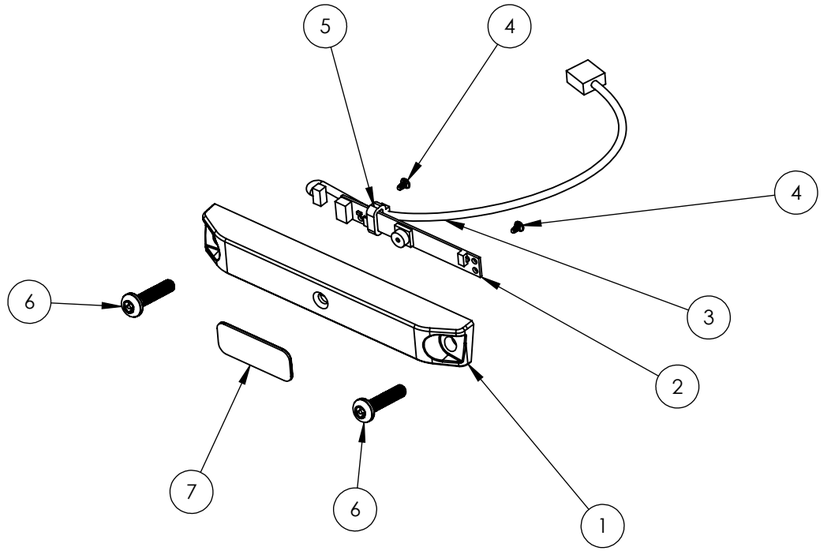
RAW THRILLS, INC

TITLE: CRUIS'N DASH ASSEMBLY

SIZE	DWG. NO.	REV
B	CRUIS'N ASSY	1

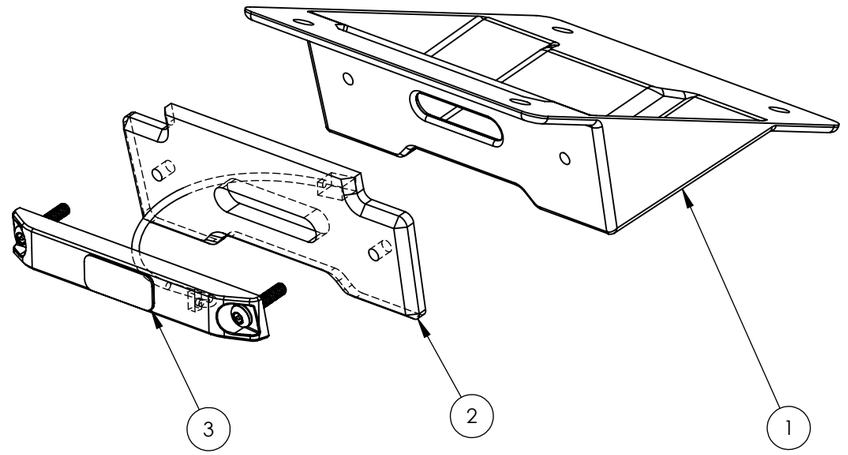
SCALE: 1:16 | WEIGHT: | SHEET 8 OF 10

CRUIS'N CAMERA SUB-ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	603-00764-01	Camera-Housing/Moto-GP.SLDPRT	1
2	500-00185-01	Moto-GP Webcam	1
3	810-00162-01	USB camera cable	1
4	99461A605	MMC 99461A605 Pan Head Phillips 18-8 Stainless Steel 1-32-#0 Drive	2
5	Camera-Tie Wrap	Camera-Tie Wrap	1
6	93701A408	8-32x3/4 TORXTAMPER-BLK	2
7	600-01790-01	Camera Dust Cover	1

CRUIS'N CAMERA BOX ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	603-00802-01	Cruis'n - Camera Box	1
2	600-01874-01	Cruis'n-Camera Acrylic Block	1
3	Camera-Housing-Assy	Moto-GP Camera Assembly(see exploded)	1

PROPRIETARY AND CONFIDENTIAL

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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

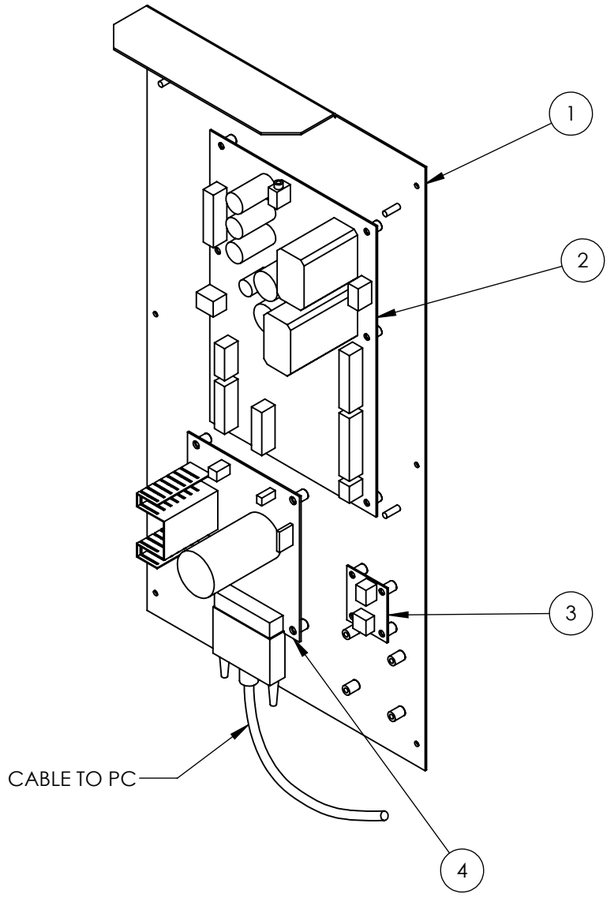
RAW THRILLS, INC

TITLE: Cruis'n CAMERA BOX ASSY (See Exploded)

SIZE	DWG. NO.	REV
B	Cruis'n Details	1

SCALE: 1:16 WEIGHT: SHEET 9 OF 10

CRUIS'N RIO-ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	600-01781-01	Cruis'n RIO-Mounting Plate	1
2	500-00040-01	RIO-board	1
3	500-00194-01	5V, 5A Switching Regulator PCB (12V input)	1
4	500-00037-01	Wheel-Driver Board	1

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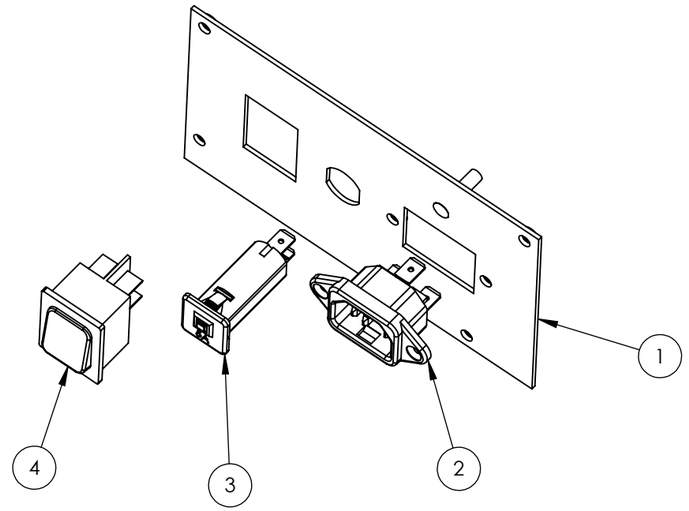
CRUIS'N A/C PLATE-ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	01-2291	PLATE, AC - LINE FILTER,CIRCUIT BREAKER, ON/OFF SW	1
2	Power Inlet Receptacle	IEC Appliance Inlet, Screw-on Mounting, Front Side, Quick-connect, 10A	1
3	T9-611-5A	CBE Circuit Breakers: 5AMP Circuit Breaker for Equipment thermal, Snap-in type, Fuseholder style, 1 pole	1
4	ON_OFF AC-SWITCH	Rated 16 amps @ 125 volts AC and 5 amps @ 30 volts DC. Maximum voltage is 250 AC and 72 DC. UL recognized and CSA certified.	1

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

NEXT ASSY | USED ON

APPLICATION | DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

RAW THRILLS, INC

TITLE:

CRUIS'N ASSEMBLY DETAILS

SIZE	DWG. NO.	REV
B	Cruisn-Final-Assembly-Dwgs	1

SCALE: 1:16 | WEIGHT: | SHEET 10 OF 10

FOR THE LATEST VERSION OF THIS DOCUMENT VISIT: WWW.RAWTHRILLS.COM

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