



## MOTION

NFS-75-1001



**Operation & Service Manual** 

Version 1.0

## \* Read this manual before use

## **General Remark**

If you encounter any difficulties or if you need support on how to update and/ or install your Hot Wheels King of the Road product, we invite you to contact your local distributor or reach us at <u>techsupport@aagmes.com</u> or by calling our support line +1-450-824-1671

Adrenaline Amusements Team

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## **Chapter 01 - Preface**

# *Please read this page before preparing your NFS Heat Takedown Arcade product for game play.*

The following safety instructions apply to all game operators and service personnel. Specific warnings and cautions will be included throughout this manual.

Use the following safety guidelines to help protect the system from potential damage and to ensure your personal safety:

- Electronic components in the game cabinet run on 110V AC 60Hz (220V/ 50Hz in most of Europe, the Middle East and the Far East delivered units).
- To help prevent electric shock, plug the system into a properly grounded power source. These cables are equipped with 3-prong plugs to help ensure proper grounding. Do not use adapter plugs or remove the grounding prong from a cable. If you must use an extension cable, use a 3-wire cable with properly grounded plugs. We do recommend a 15A rated current or higher power cord.
- To help protect your system from sudden increases and decreases in electrical power, use a surge suppressor, line conditioner or Uninterruptible Power Supply (UPS).
- Be sure nothing rests on the system's cables and that the cables are not located where they can be stepped on or tripped over.
- Keep your system far away from radiators and other heat sources.
- Do not block cooling vents.

### **Precaution for Game Operation**

Adrenaline Amusements Inc. assumes no liability for injuries incurred while playing our games.

Operators should be aware that certain health and physical conditions may make people susceptible to injury when playing video games.





To avoid electrical shock, unplug the cabinet before performing installation or service procedures.

If a power cord is damaged, it must be replaced by the equivalent power cord available from your distributor.



Adrenaline Amusement Inc. assumes no liability for any damages or injuries incurred while setting up or servicing the cabinet. Only qualified service personnel should perform installation or service procedures.

### **Environmental Conditions**

Cabinet is intended for indoor use only. Be sure to keep the cabinet dry and maintain operating temperatures of 59° - 86°F (15° - 30°C).

### **Electrical Power**

This game cabinet is shipped configured as either 120V or 230V and is not user switchable. Do not attempt to change the voltage switches on the power supplies to change the required voltage.

Warning: Before obtaining access to terminals, all supply circuits must be disconnected.

United States/Canada				
Voltage Operating				
120V AC 60 Hz	20 Amps (10 Amps per entry)			

International			
Voltage	Operating		
230 AC 50 Hz	10 Amps (5 Amps per entry)		



## **Chapter 02 - Game Features**

Are you fast enough to scape the cops? Do you have the skills to take the wheels and drift? Push the Nitrous and takedown your enemies on the streets and become the king of Palm City.

### How to Play

- Use the steering wheel to drive the racetracks.
- Use the pedals to accelerate and drift.
- Collide with other players and the cops to take them down!
- Collect and push the nitrous to escape and win the race.





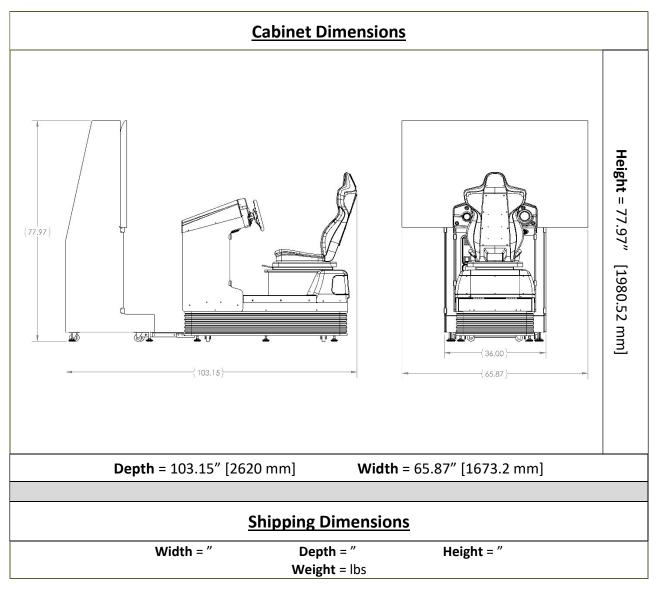


## **Chapter 03 – Unit Features**

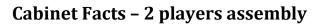
## **Hardware Features**

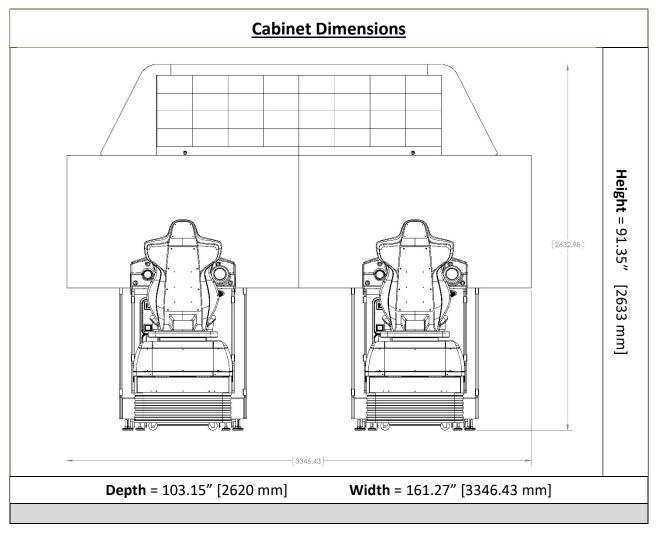
- 1 to 2 Players Game
- Steering wheels & accelerator pedals for each player
- 75 inches LCD Screen

## **Cabinet Facts - 1 player version**







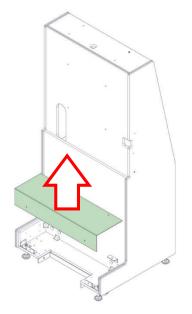




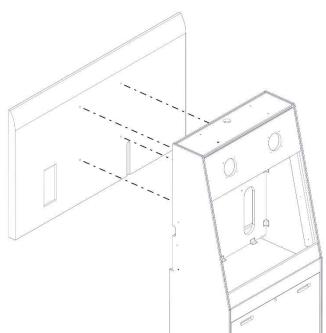
## **Chapter 04 – Unit Installation**

### How to assemble your NFS Heat Takedown - Motion

**1)** Start by removing the base cover. Unscrew the 4 black screws and lift up the cover, keep the screws for step 6.

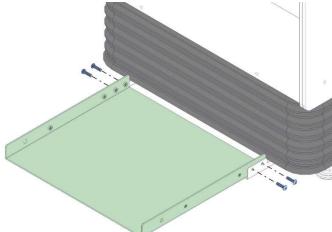


**2)** Open the upper back door and install the screen using the MS-PP-ZS-M8X45MM bolts and the FW-Z-3/8-1 washers. Is strongly recommended to be two technicians for this step.

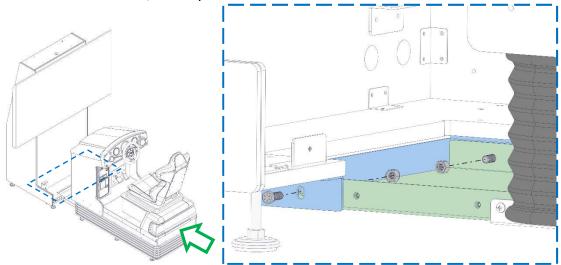




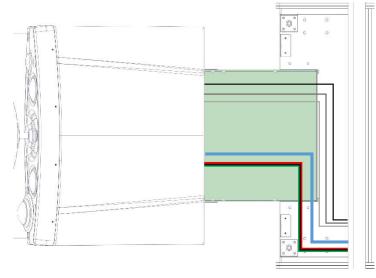
**3)** Install the wire cover base to the seat module using four BS-HRO-BS-1/4-20x1 screws.



**4)** Place the seat module in front the screen and install it using the HS-HH-ZS-3/8-16X1 bolts and the NN-ZS-3/8-16 Nylon-locknuts.



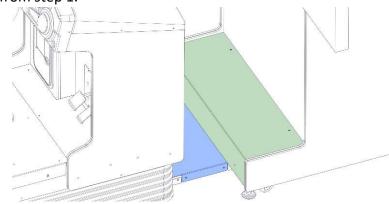
5) Connect the cables and the air tube from the seat module to the screen module.



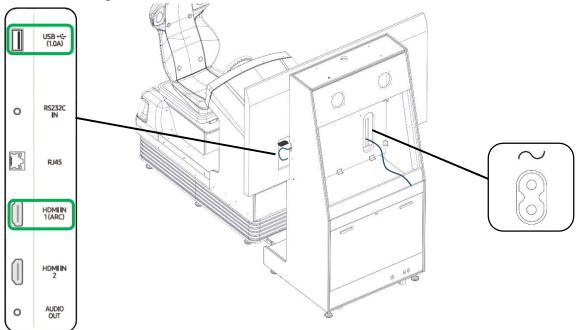
-USB Cable -LED's power source -I/O board cable -Power cable -AIR Tube



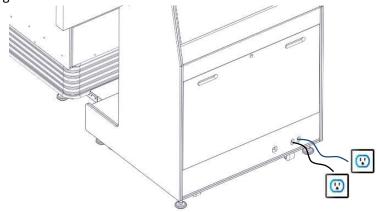
6) Install the wire cover using four BS-HRO-BS-1/4-20x1 screws and the base cover using the screws from step 1.



7) Go to the back of the machine and install the TV's power and the HDMI cable and plug in the USB Dongle.



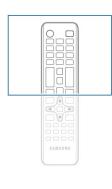
8) Plug the arcade into the power source. It's important to connect the air compressor to a separate power plug.





#### NFS Heat Takedown - Motion V1.0 Chapter 04 – Unit Installation

9) Power on the TV and press "HOME" on the remote control.



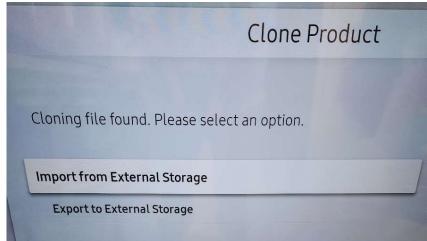


10) Select the Clone Product menu.





**11)** Then select the "Import from External Storage" option.



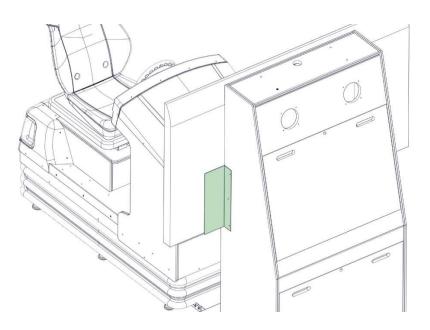


**12)** The settings transfer is done once you see this message on the screen. Select OK to restart and apply the changes. If no buttons are pressed in the next 10 seconds, your product will restart automatically.



If you have any question about the Clone Product procedure, go to the page 54 on your tv manual. **13)** Remove the USB from the tv and install the tv's plate using the three MS-PP-BS-10-24X1

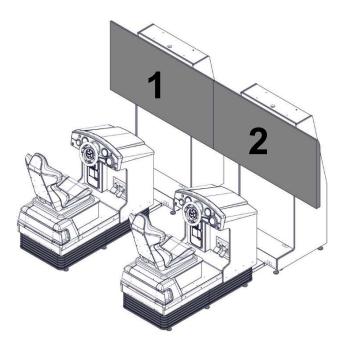
screws.



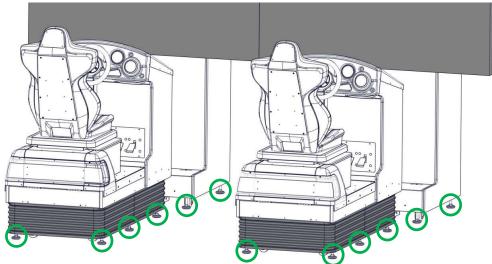


### How to assemble and connect two NFS Heat Takedown - Motion

1) Place the machines beside each one. The first arcade to the left will be the player #1.

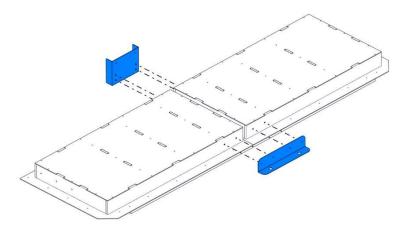


2) When you are pleased by the arrangement of the machines, secure them by fixing all the leveling mounts of each arcade.

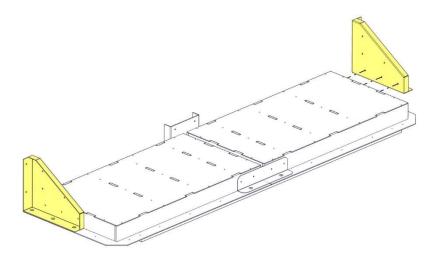




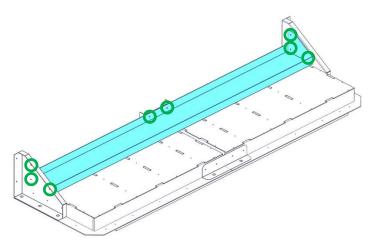
**3)** Install the two center reinforcement brackets using four black 10-24 screws.



4) Install the two leg brackets on each side of the header using six black 10-24 screws.

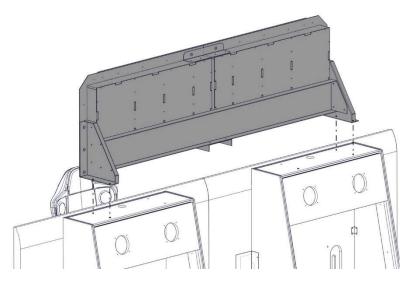


**5)** Install the reinforcement beam between the two leg brackets with the ¼-20 screws & nuts.

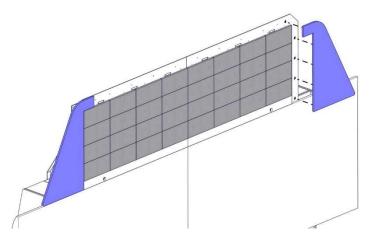




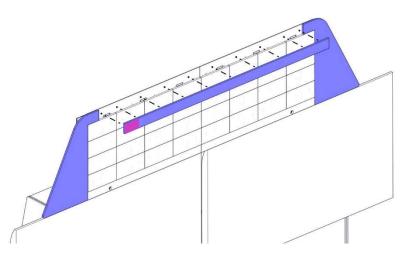
6) with someone's help lift and install the header using the ¼-20 hex bolts.



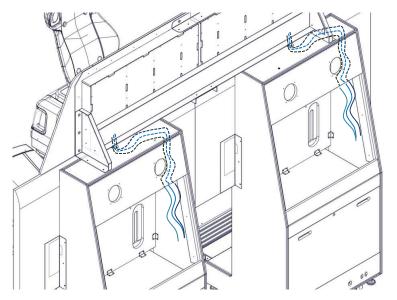
7) Install the header's laterals decorations on each screen using five #6 x ½ screws.



8) Install the header's central decoration using ten #6 x ½ screws. Verify the orientation before installation.

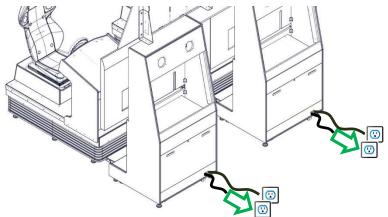


9) Connect on each side the USB, Ethernet, and power cables for the header.



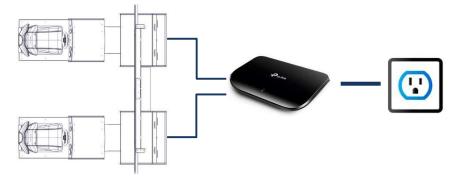


10) Connect the compressors and the machines to the power source.



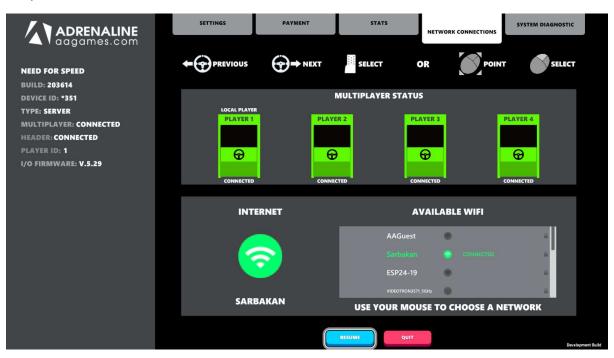
<u>IMPORTANT</u>: Plug the compressor to a separated circuit, don't use the same circuit of the machine.

**11)** Connect the two machines together by using the ethernet cables and modem.





**12)** Use the operator menu to change the ID of each machine. To access the operator menu, push the white bottom who is inside the coin door of each machine.

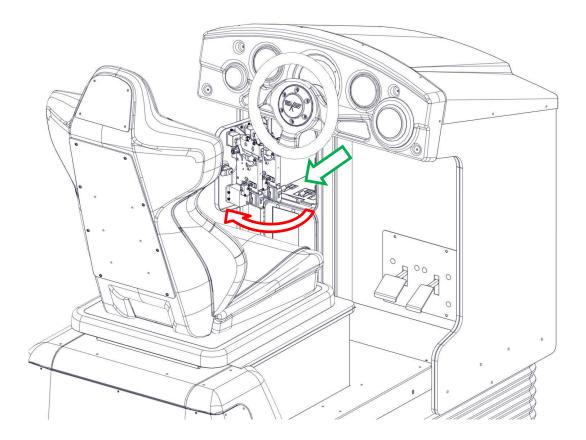




## **Chapter 05 – Operator Menu**

## **Operator Menu**

Access the Operator Menu by pressing the white operator menu button behind the coin door.





#### NFS Heat Takedown - Motion V1.0 Chapter 05 – Operator Menu

#### SETTINGS

ADRENALINE aagames.com	SETTINGS	PAYMENT	STATS		NETWORK	SYSTEM DIAGNOSTIC
NEED FOR SPEED			SELECT	OR	POINT	SELECT
BUILD: 203614 DEVICE ID: *351		Game Audio V	( - l		-	
TYPE: SERVER				= 15		
MULTIPLAYER: CONNECTED		Attract Audio	Volume	= 15		
HEADER: CONNECTED		Language	<	English		
PLAYER ID: 1		Take Picture	01	N OF	F	
I/O FIRMWARE: V.5.29		Toogle Music	0	N OF	F	
		Toogle SFX	01	N OF	F	
		Toogle VO	0	N OF	F	
		Speed Format	<	МРН	•	
		Use Seat Moti	on Ol	N OF	F	
		Machine ID		- 1	•	
			CLEAR CREDITS			
		_				
			RESUME	QUIT		Development Build

<b>Operator Menu</b>	<u>Values</u>	What It Does	
Game Audio Volume	1-20	Adjusts the in-game audio volume. "0" will mute the game.	
Attract Audio Volume	0-20	Adjusts the volume of the voice attract loop. "0" will mute	
Language	English/Français	Switches the game and the menu's language	
Take Picture	On / Off	Takes pictures of each player at the start of the game	
Toggle Music	On / Off	Toggles in-Game Music On or Off	
Toggle SFX	On / Off	Toggles in-Game Sound Effects On or Off	
Toggle VO	On / Off	Toggles in-Game Voices On or Off	
Speed Format	МРН / КРН	Toggles speed indicator from MPH to KPH	
Use Seat Motion	On / Off	On Motion cabinets to toggle motion Off	
Machine ID	1-4	Sets the Machine ID, Set games 1-4 (left to right)	
Payment Type	Credit / Card	Changes the credit type. "Credits" = Coins and	
		"Card" = Card Reader. This will change the in-game text	
		accordingly.	
Clear Credits		Resets the Inserted credits to 0 if more than 40 credits are	
		entered.	
Resume Game		Exits the Operator Menu and returns to the game.	
Quit Game		Exits the game and returns to the Windows desktop.	



#### NFS Heat Takedown - Motion V1.0 Chapter 05 – Operator Menu

#### PAYMENT

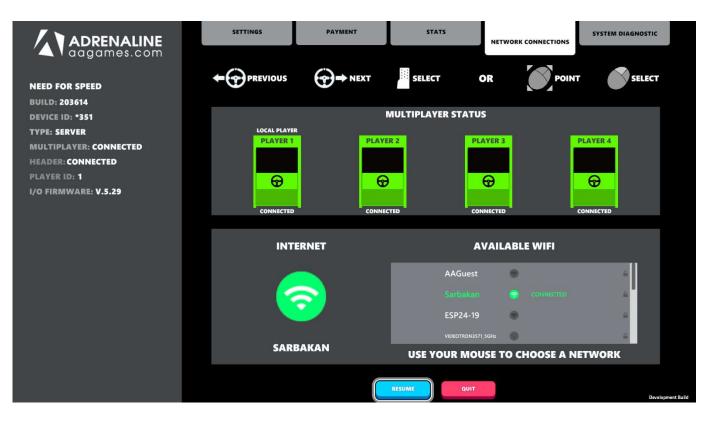
ADRENALINE aagames.com	SETTINGS	PAYMENT	STATS		NETWORK CONNECTIONS	SYSTEM DIAGNOSTIC
NEED FOR SPEED			SELECT	OR	POINT	SELECT
BUILD: 203614 DEVICE ID: *351		Swipes Per G	ame		1 🖕	
TYPE: SERVER		Payment Typ		Card	2	
MULTIPLAYER: CONNECTED HEADER: CONNECTED			CLEAR CREDITS			
PLAYER ID: 1						
I/O FIRMWARE: V.5.29						
			RESUME	UIT		Development Build

<b>Operator Menu</b>	<u>Values</u>	What It Does	
Credit per Game	1-20	Set Price per Play	
Payment Type	Credit / Card	Changes the credit type. "Credits" = Coins and	
		"Card" = Card Reader. This will change the in-game text	
		accordingly.	
Clear Credits		Resets the Inserted credits to 0 if more than 40 credits are	
		entered.	
Resume Game		Exits the Operator Menu and returns to the game.	
Quit Game		Exits the game and returns to the Windows desktop.	



#### NFS Heat Takedown - Motion V1.0 Chapter 05 – Operator Menu

#### etwork Connections



## The left menu

#### The left menu is a guick status overview of the state of the cabinet.

	quick status overview of the state of the casiliet.
BUILD	This is the version number of the game software
DEVICE ID	The unique ID of your machine
ТҮРЕ	This will tell you if this machine is the server or a client
MULTIPLAYER	If the cabinet is connected or not to other games.
HEADER	If the computer sees a header connected to its video cable
PLAYER ID	The position of the cabinet. Cabinet 1 must be the completely at the left of the setup and cabinet 4 at the right end. Each game must have a different ID.
I/O FIRMWARE	The firmware version of the I/O board

### **Network connections sections**

The game is using a local wired network for Multiplayer play. It is strongly recommended to connect each game to your local Wi-Fi internet access. This will enable the game to download updates automatically.



## **Multiplayer status**

#### The upper part of this screen will indicate the status of your cabinets.

Red cabinet indicates that this cabinet is not plugged to the rest of the network via the network switch and green indicates that everything is fine.

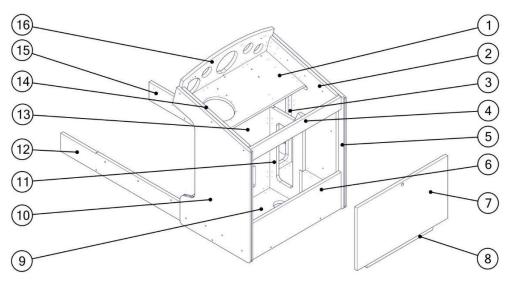
## Available wi-fi

#### The lower part of the screen will allow you to connect to an available WIFI network.

The network must be password protected. You move to the network you want to connect to, press the pedal, then enter the network's password. The icon below the "Internet" label will tell you if you are connected or not to the WIFI network and the signal strength.

## **Chapter 06 - Parts**

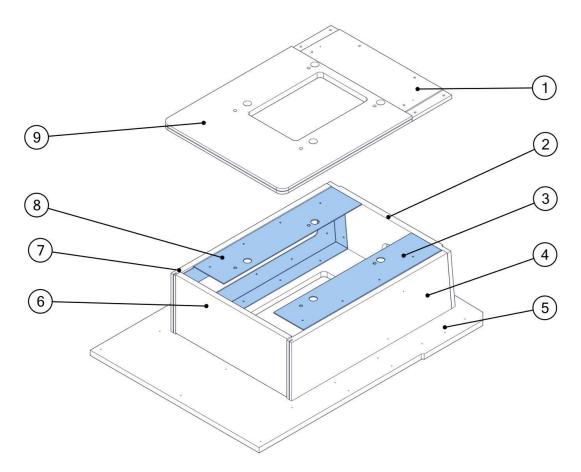
## **Motion cabinet**



Ref	Part Description	Part #	QTY
1	Speaker Mounting Panel Melamine Dash & Coin Cabinet	NFSM-02-0031-15	1
2	Printed Plywood Left Sides Dash & Coin Cabinet	NFSM-02-0031-11	1
3	Cash Door Mounting Panel Melamine Dash & Coin Cabinet	NFSM-02-0031-06	1
4	Right Side Printed Melamine Dash & Coin Cabinet	NFSM-02-0031-10	1
5	Left Side Printed Melamine Dash & Coin Cabinet	NFSM-02-0031-03	1
6	Back Bottom Melamine Dash & Coin Cabinet	NFSM-02-0031-08	1
7	Back Door Melamine Dash & Coin Cabinet	NFSM-02-0031-09	1
8	Back Door Stoper Melamine Dash & Coin Cabinet	NFSM-02-0031-14	1
9	Plywood Floor Dash & Coin Cabinet	NFSM-02-0031-01	1
10	Right Side Printed Melamine Dash & Coin Cabinet	NFSM-02-0031-04	1
11	Cash Door Side Panel Melamine Dash & Coin Cabinet	NFSM-02-0031-13	1
12	Printed Plywood Right Sides Dash & Coin Cabinet	NFSM-02-0031-16	1
13	Pedal Panel Melamine Dash & Coin Cabinet	NFSM-02-0031-05	1
14	Right Side-Lining Melamine Dash & Coin Cabinet	NFSM-02-0031-12	1
15	Printed Plywood Left Sides Dash & Coin Cabinet	NFSM-02-0031-02	1
16	Dash Mounting Panel Melamine Dash & Coin Cabinet	NFSM-02-0031-07	1



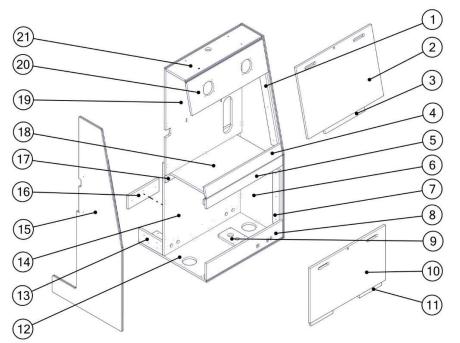
## Seat Cabinet



Ref	Part Description	Part #	QTY
1	Top Back Melamine Seat Cabinet	NFSM-02-0032-08	1
2	Back Melamine Seat Cabinet	NFSM-02-0032-04	1
3	Left Seat Reinforcement	NFSM-01-0029	1
4	Printed Melamine Left Side Seat Cabinet	NFSM-02-0032-02	1
5	Plywood Floor Seat Cabinet	NFSM-02-0032-01	1
6	Front Melamine Seat Cabinet	NFSM-02-0032-05	1
7	Printed Melamine Right Side Seat Cabinet	NFSM-02-0032-03	1
8	Right Seat Reinforcement	NFSM-01-0028	1
9	Top Melamine Seat Cabinet	NFSM-02-0032-06	1



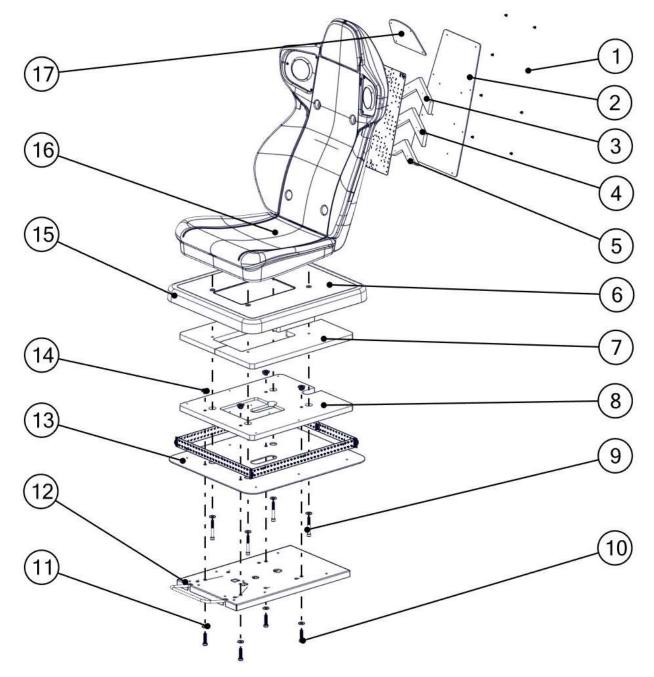
## Screen Cabinet



Ref	Part Description	Part #	QTY
1	Upper Door Stopper Screen Melamine Cabinet	NFSM-02-0003-13	2
2	Upper Door Screen Melamine Cabinet	NFSM-02-0003-10	1
3	Upper Door Support Screen Melamine Cabinet	NFSM-02-0003-12	1
4	Upper Middle Back Screen Melamine Cabinet	NFSM-02-0003-9	1
5	Lower Middle Back Screen Melamine Cabinet	NFSM-02-0003-8	1
6	Left Side Screen Melamine Cabinet	NFSM-02-0003-2	1
7	Lower Door Stopper Screen Melamine Cabinet	NFSM-02-0003-15	2
8	Back EMI Mounting Screen Melamine Cabinet	NFSM-02-0003-6	1
9	Multi Compressor Base	NFSM-02-0012	1
10	Lower Back Door Screen Melamine Cabinet	NFSM-02-0003-7	1
11	Lower Door Support Screen Melamine Cabinet	NFSM-02-0003-14	2
12	Screen Cabinet Plywood Floor	NFSM-02-0003-1	1
13	Cover Support Screen Melamine Cabinet	NFSM-02-0003-4	2
14	Printed Melamine Screen Cabinet Front Panel	NFSM-02-0003-5	1
15	Right Side Screen Melamine Cabinet	NFSM-02-0003-17	1
16	Cover Stopper NFSM	NFSM-02-0003-20	1
17	Electronic Shelf Support Screen Melamine Cabinet	NFSM-02-0003-18	2
18	Inside Electronic Shelf Screen Melamine Cabinet	NFSM-02-0003-16	1
19	Back Screen for Screen Melamine Cabinet	NFSM-02-0003-19	1
20	Screen Melamine Cabinet Fans Holder	NFSM-02-0003-11	1
21	Screen Melamine Top Cabinet	NFSM-02-0003-3	1



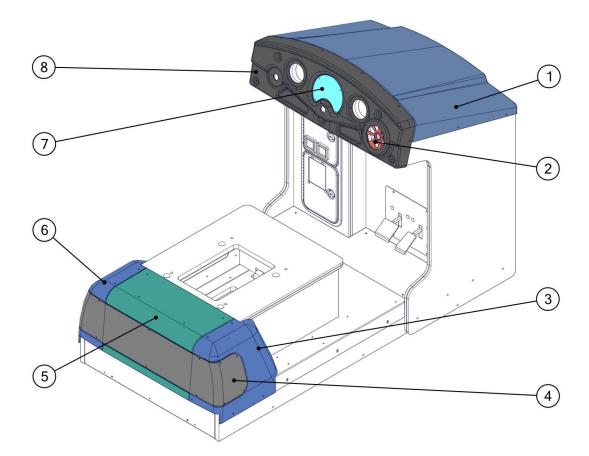
## Seat assembly





Ref	Part Description	Part #	QTY
1	Rounded Head Screw, Phillips, Black M4-0.7X6MM	MS-PRO-BS-M4-0.7X6MM	8
2	Back Seat Led Cover	NFSM-07-0017	1
3	Back Upper Arrow LED Shim	NFSM-02-0006-01	1
4	Back Middle Arrow LED Shim	NFSM-02-0006-02	1
5	Back Bottom Arrow LED Shim	NFSM-02-0006-03	1
6	Seat Sticker Cover	NFSM-09-0002	1
7	Top Seat Base	NFSM-02-0002-01	1
8	Bottom Seat Base	NFSM-02-0002-02	1
9	Socket Head Screw, Black-Oxide, Steel, M8-1.25x65MM	MS-HSO-BS-M8x65MM	4
10	Hex Head Screw, Yellow Zinc, 3/8-16x3/4"	HS-HH-YS-3/8-16x3/4	4
11	Flat Washer, 3/8", USS, Zinc, 1" OD	FW-Z-3/8-1	8
12	Seat Slider	AAG-01-0007	1
13	Seat LED Bottom Cover	NFSM-07-0010	1
14	Tee Nuts, Zinc Plated, 3/8"-16, 0.501" Installed Length	TN-Z-3/8-16	4
15	Seat LED Cover	NFSM-07-0009	1
16	Black Mold Seat	AAG-07-0008	1
17	Seat Back Top Plate	NFSM-07-0018	1

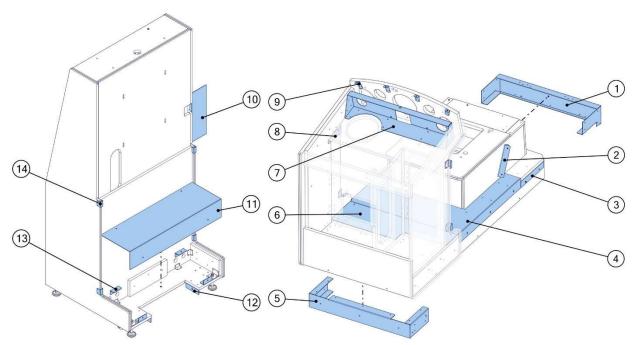
## **Plastic Parts**



Ref	Part Description	Part #
1	Car Hood	NFSM-07-0026
2	Push Button PCB Holder	NFSM-07-0001
3	Rear Seat Right Cover	NFSM-07-0036
4	Rear Seat Base Cover	NFSM-07-0040
5	Rear Seat Center Cover	NFSM-07-0037
6	Rear Seat Left Cover	NFSM-07-0035
7	Dash Cadran Center	NFSM-07-0045
8	Dash, Need for Speed Motion	NFSM-07-0022



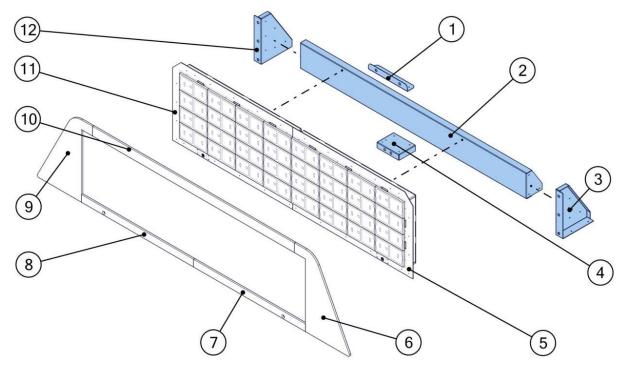
## **Metal Parts**



Ref	Part Description	Part #	QTY
1	Rear Frame	NFSM-01-0042	1
2	Front Rear Cover Bracket	NFSM-01-0025	2
3	Rear Cover Bracket	NFSM-01-0026	2
4	Seat Plate	NFSM-01-0036	1
5	Front Base Frame	NFSM-01-0043	1
6	Pedal Floor Protector	NFSM-01-0015	1
7	Steering Wheelbase	NFSM-01-0012	1
8	LED Side Cover	NFSM-01-0061	1
9	Front Dash Bracket	NFSM-01-0013	4
10	Screen Rear Cover Plate	NFSM-01-0033	1
11	Base Cover for Cabinet	NFSM-01-0005	1
12	Wire Cover Bracket	NFSM-01-0004	2
13	Base Cover for Bottom Holder	NFSM-01-0008	4
14	Exterior LED Holder	NFSM-01-0060	8



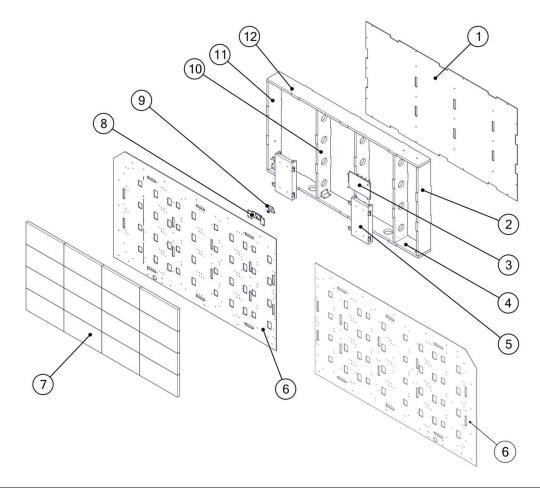
## Header



Ref	Part Description	Part Number	QTY
1	Header Top Bracket	NFSM-01-0017	1
2	Display Bottom Bracket	NFSM-01-0120	1
3	Right Header Support	NFSM-01-0118	1
4	Header Center Base	NFSM-01-0021	1
5	Need For Speed Motion Header Player 2	NFSM-06-0003	1
6	Plastic Right Side Contour Header	NFSM-07-0011-1	1
7	Plastic Bottom Right Contour Header	NFSM-07-0011-3	1
8	Plastic Bottom Left Contour Header	NFSM-07-0011-4	1
9	Plastic Left Side Contour Header	NFSM-07-0011-2	1
10	Plastic Top Contour Header	NFSM-07-0011-5	1
11	Need For Speed Motion Header Player 1	NFSM-06-0002	1
12	Left Header Support	NFSM-01-0119	1



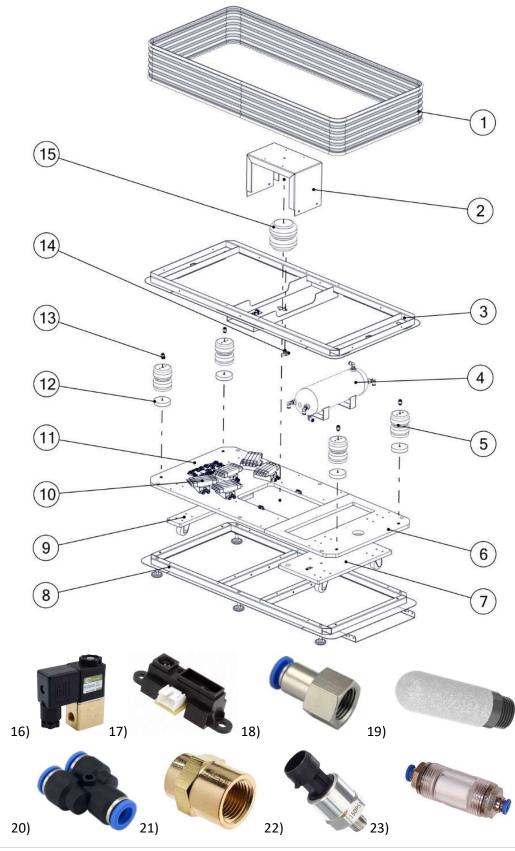
## • NFSM-06-0002/3- Header Player



Ref	Part Description	Part Number	QTY
1	Plastic Screen Rear Panel, Need for Speed Motion	NFSM-07-0014	1
2	Side, PVC Foam 12mm Header Screen Frame	NFSM-07-0020-5	1
3	Programmed Led Matrix Card, Receiving Card	AAG-14-0032-PROG	1
4	Bottom, PVC Foam 12mm Header Screen Frame	NFSM-07-0020-3	1
5	Switching Power Supply 5V, 200W, 110/220V Manual Selection	AAG-13-0031	2
6	Plastic Left Back Screen Plate (PLAYER 1)	NFSM-07-0013	1
0	Plastic Right Back Screen Plate (PLAYER 2)	NFSM-07-0012	1
7	Display Module, 64x32', RGB LED - 4mm pitch	AAG-14-0004-DISPLAY	16
8	Camera Bracket, NFSM	NFSM-01-0020	1
9	Mini camera USB, 1.3 Megapixel, 2.8mm Lens	AAG-10-0001	1
10	Center, PVC Foam 12mm Header Screen Frame	NFSM-07-0020-4	3
11	Side With Hole Inserts, PVC Foam 12mm Header Screen Frame	NFSM-07-0020-2	1
12	Top, PVC Foam 12mm Header Screen Frame	NFSM-07-0020-1	1



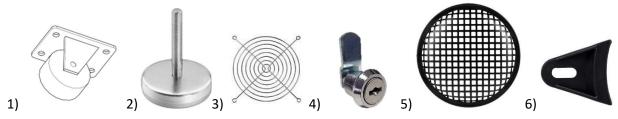
## Pneumatic system





Ref	Part Description	Part Number	QTY
1	Accordion Seal, 0.65" x 4" With Steel	AAG-05-0049	1
2	Center Bottom Plate, Need for Speed Motion	NFSO-01-0011	1
3	Upper Frame Weld, Need for Speed Motion	NFSO-01-0020	1
4	2.0 Gallon Air Tank	AAG-05-0041	1
5	Small Air Spring, Model: 2B2200, Need for Speed Motion	AAG-05-0044	4
6	Front Plywood Floor Panel	NFSO-02-0001-1	1
7	Tank Plywood Base Floor Panel	NFSO-02-0001-3	1
8	Bottom Frame Weld, Need for Speed Motion	NFSO-01-0110	1
9	Shim Plywood for Leveler on Floor Panel	NFSO-02-0001-4	1
10	Pack Solenoid Valves with Intake	AAG-05-0042	5
11	Back Plywood Floor Panel	NFSO-02-0001-2	1
12	Shim Plywood for Small Air Spring on Floor Panel	NFSO-02-0001-5	4
13	Male, Straight Push in Fittings, 3/8", 1/4 NPT	AAG-05-0035	20
14	Male, Elbow Push in Fittings, 3/8", 1/4 NPT	AAG-05-0037	7
15	Big Air Spring, Model: 2B6956, Need for Speed Motion	AAG-05-0045	1
16	Drain Solenoid Valve, 12V	AAG-05-0051	1
17	Optical Sensor, 4-30 Cm, Analog	AAG-05-0054	2
18	Female, Straight Push in Fittings, 3/8", 1/4 NPT	AAG-05-0036	5
19	Pneumatic Air Silencers 1/4	AAG-05-0040	5
20	Union Y Inch, Composite, Push to Connect, Fittings 3/8"	AAG-05-0038	2
21	Pipe Fitting, Reducing Coupling, Brass, 1/4" F NPT x 1/8" F NPT	PF-RC-B-1/4Fx1/8F	1
22	Modified Pressure Transducer, 150 PSI, 1/8 NPT	AAG-05-0050-MOD	2
23	3/8 Push-In Serviceable Filter	AAG-05-0059	5

## **Mechanical Parts**



Ref	Part Description	Part #
1	General Duty Rubber Caster, 2-1/2"	INV-F25083
2	Leg Leveler 1/2"-13 x 4" Thread, 2-3/8" Base Diameter	INV-62805K-39
3	Grill 120mm	ADR-GRILLE-120MM
4	Cam Lock for Panel Thickness up to 23mm	ADR-14-2010
5	8" Waffle Style Speaker Grill	ADR-269-2112
6	Plastic Grill Clamp for Woofer	AAG-05-0055

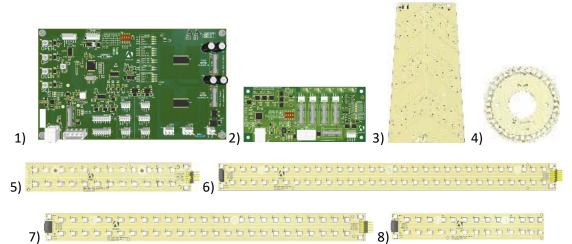


## Sound system



Ref	Part Description	Part #
1	Round Black Speaker, 8 Ohm, 3.3"	AAG-13-0025
2	GSR 8SW-4 8'' Poly Cone Subwoofer 4 Ohm	ADR-292-480
3	Audio Bass Shaker 50 Watts	AAG-13-0027
4	7.1 Audio Amplifier Board, Need for Speed	AAG-04-0066

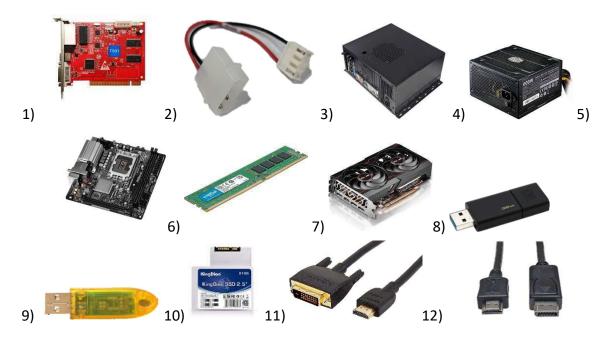
## **Electronic boards**



Ref	Part Description	Part #
1	Program I/O Board Assembly With 4 Analog Input for Hot Wheels	AAG-04-0001-PROG-NFS
2	12V RGB LED Controller with Outputs	AAG-04-0015-12RL
3	Back seat Arrow, NFS	AAG-14-0022
4	Push-Button RGB Led Ring, NFS	AAG-14-0011
5	Back Seat RGB Strip Start, NFS	AAG-14-0021
6	Side Seat RGB Strip, NFS	AAG-14-0018
7	Front Seat RGB Strip, NFS	AAG-14-0019
8	Back Seat RGB Strip End	AAG-14-0020



## **Computer parts**



Ref	Part Description	Part Number
1	Led Matrix Controller – sending card	AAG-14-0039
2	T901 PC Card Power Cable	AAG-03-0185
3	Metal Pc Box Casing For NFS	AAG-01-0010
4	Power Supply 600W, (Or 500W) For PC Box	AAG-11-0001
5	Motherboard Asrock, B660M, S1700,12TH	AAG-11-0026
6	Crucial RAM, DDR4, 3200, 8GB, DIMM	AAG-11-0025
7	Sapphire Video card, Radeon, RX6600, 8 GB, GDDR6	AAG-11-0023
8	Restore USB Key NFS	ADR-11-2014-NFS-B660M
9	Yellow Dongle	TF-04-1212
10	Hard Drive Need for Speed, ASROCK B660M	INV-11-1027-NFS-B660
11	HDMI to DVI (M) cable	
12	DisplayPort Male to HDMI Male Cable, 28AWG	INV-DP-HDMI-06K







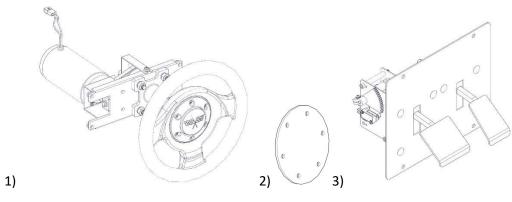
11)

Ref	Part Description	Part Number
1	Power Bar 5 positions	INV-05-1242
2	Multi-Stage Filter 10A	ADR-817-1321-ND
3	Switching Power Supply <b>12V</b> , 320W	AAG-13-0029
5	Switching Power Supply <b>24V</b> , 320W	AAG-13-0028
4	Kit for Fan 138CFM With Harness, 120mm	ADR-FAN-120MM-02-KIT
5	Miniature Round Pushbutton, White Center	ADR-49-0577-01
6	Meter, 12V, 7 Digit with Bracket	ADR-42-08012-072
7	7-Port USB, 3.0 Hub, Type A Female USB	AAG-11-0011
8	NFS fuses board	AAG-04-0068
9	White Jumbo Round Button, RGB, Translucent Bezel	AAG-13-0026
10	Red Large Round Button with Led White Lamp, Include 'Motion Stop'	AAG-13-0032
11	Programmed Led Matrix Card, Receiving Card	AAG-14-0032-PROG



#### NFS Heat Takedown - Motion V1.0 Chapter 06 – Parts

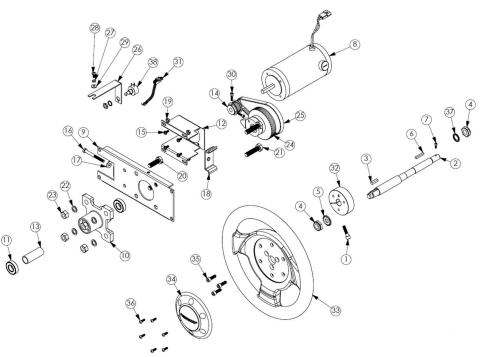
# **Steering wheels**



Ref	Part Description	Part Number
1	Steering Wheel with Motor Assembly	AAG-13-0002
2	Center Wheel Sticker, Need for Speed	NFS-09-0003
3	Dual Pedal with Potentiometer On Gas, Need for Speed	AAG-13-0023

# Steering Mechanism Assembly Parts available from Suzohapp

TEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	43-0341-00	SCREW 1/4-28 X 1" SHC BLK OX
2	1	50-4014-00	SHAFT, 270 DEG. ACTIVE WHEEL
3	1	43-0305-00	KEY 3/16 SQUARE x .74 LG FOR ACTIVE STEERING
4	2	43-0232-00	NUT, HEX NYLOCK 1/2-20
5	1	43-0340-00	LOCKWASHER M12 SERRATED EXTERNAL TOOTH
6	1	50-2092-00	KEY, SHAFT 4MM × 4MM × 25MM
7	1	43-1170-00	SCREW, #6-32 × 3/8" SHCS
8	1	50-4043-00	MOTOR & CONNECTOR ASY.
9	1	50-4016-00	WHEEL MTG BRACKET 270 DEG ACTV WHEEL
10	1	50-8129-00	DIECAST HOUSING FOR STEERING WHEEL W/O
11	2	50-8130-00	BEARING BALL 6002zz .59 ID X 1.259 OD X .35 THK
12	1	50-8455-00	MOTOR MOUNTING BRACKET FEEDBACK WHEEL
13	1	50-2659-00	BEARING SPACER
14	1	50-4040-00	PULLEY 1/5 PITCH 16 TEETH ALL ALUMINUM 3/8 I
15	4	43-0188-00	SCREW 8-32 X 3/8" HWHMS SEMS
16	1	43-0576-00	SCREW M6 X 60MM HHCS PARTIAL THREAD ZING
17	1	90-1208-00	5/16 FLAT WASHER .06T ZINC PLT
18	1	50-2545-00	BRKT M6 BELT TIGHTENER FEEDBACK
19	4	42-0093-00	NUT, 10-32 HEX SEMS, ZINC PLTD
20	2	43-0117-00	SCREW M10 X M30 HHCS GRADE 8.8
21	2	43-0978-00	SCREW M10 X 40MM HHCS
22	4	43-0034-00	LOCKWASHER M10 RIBBED
23	4	43-0035-00	NUT HEX M10
24	1	50-4045-PL	STOPPER PIE CAM & PLASTIC PULLEY
25	1	50-4041-90	TIMING BELT FOR STEERING WHEEL URETHANE STEEL
26	1	50-4018-00	POT MOUNTING BRACKET 270 DEG ACTIVE WHEEL
27	1	50-4032-00	SPACER, POT MTG. BRACKET
28	1	43-0184-00	SCREW 10-32 X 3/8" PPHMS
29	1	43-0995-00	WASHER 10 SAE FLAT ZP
30	2	43-1059-00	SCREW 8-32 X 5/8" SHCS W/NYLOK PATCH BLK OX
31	1	50-4089-00	HARNESS WHEEL 3 PIN IDC POT
32	1	50-2525-00	SPLIT HUB FOR 5/8" SHAFT & 1/4-20 TAP
33	1	50-1035-00HD	HOOP, SOFT
34	1	50-4135-00	WHEEL CAP FOR SOFT HOOP WITH NAMCO LOGO
35	3	43-0328-00	SCREW 1/4-20 X 3/4" SHCS BLK OX
36	6	43-0284-00	SCREW 8-32 X 1/2" TORX BHCS BLK OX
37	1	43-1554-00	STAR WASHER M14 EXTERNAL TOOTH
38	1	96-4916-00	LONG LIFE POT WITH NUT AND WASHER 5K 320

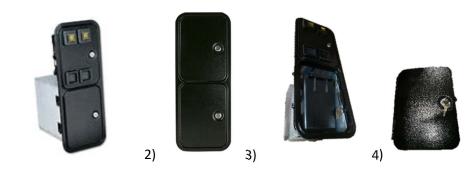




### NFS Heat Takedown - Motion V1.0 Chapter 06 – Parts

# Doors

1)



Ref	Part Description	Part Number
1	Door Assembly with Two Upper Mech Holder, Round Corner, Universal Logo	ADR-40-0038-KA
2	Door and Frame Assembly with Blank Upper and Bottom Door, Round Corner	ADR-40-0128-00KA
3	Door Assembly with One Upper Mech Holder, Round Corner, Universal Logo, NO Bottom Door	ADR-40-0512-06NMKA
4	Round Corner Blank Door Only	ADR- 42-3145-100C15

# Wiring Harnesses

Part Description	Part Number
Harness For NFS Police Red and Blue Lights	AAG-03-0143
Harness For NFS Seat Speaker	AAG-03-0150
Harness For NFS Audio Amp Front Speaker	AAG-03-0137
Harness For NFS & NFSM Front speaker Audio Amp	AAG-03-0138
Harness Coin Door Need for Speed	AAG-03-0136
Harness For NFS Backseat LED/Licences Plate to Cabinet	AAG-03-0142
Harness For NFS PSU 12V to Seat LED	AAG-03-0141
Harness For NFSM Audio Amp Power	AAG-03-0140
Harness 68" SuperSaber to SPADE TERM Yellow	AAG-03-0158
Dash LEDs Harness, Need for Speed	AAG-03-0166
Seat LEDs Harness, Need for Speed	AAG-03-0165
Harness For NFS Audio Amp Power	AAG-03-0139
Harness For PSU Power, Blox Breaker	BLX-03-0014



# Hardware Kit



Ref	Part Description	Part #	Qty
1	Button Head Hex Drive Screw, 3/8"-16 Thread, 2-1/2" Long	BS-HRO-BS-3/8-16x2-1/2	4
2	Round Head, Machine Screw, Phillips/ Quadrex, 1/4-20X3"	MS-PRO-ZS-1/4-20X3	2
3	Flat Washer, 1/4", USS, Zinc	FW-Z-1/4-USS	2
4	Keyboard + Mouse	INV-11-1015	1



# **Chapter 07 – Diagrams & Schematics**

# **Computer section**

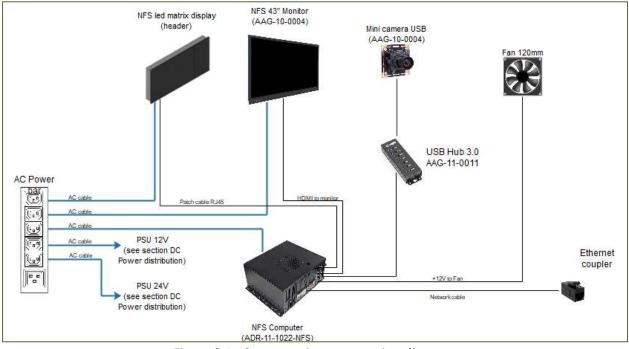


Figure 8.1 : Computer interconnection diagram



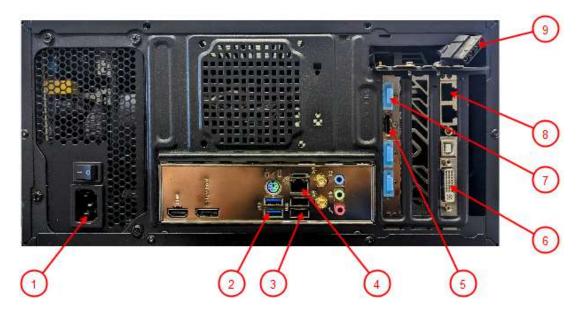


Figure 8.2: Computer connections

Item	Description					
1	AC Power Inlet					
2	USB port to USB hub					
3	USB port to Windows license dongle <sup>1</sup>					
4	Ethernet network port					
5	HDMI port connected to DVI port (Item 6)					
6	DVI port connected to (Item 5)					
7	Display port to 43" monitor (HDMI)					
8	RJ45 conn. to Led matrix display (header) <sup>2</sup>					
9	12V Power-supply connector to 12V fan					

Note<sup>1</sup>: USB hub must be connected in a blue connector.

Note<sup>2</sup>: The led matrix display should be connected in the upper connector as shown on the figure.



# 12V/24V Power distribution

The following figure shows all the items connected to the fuses board. The harnesses' part numbers are specified in red.

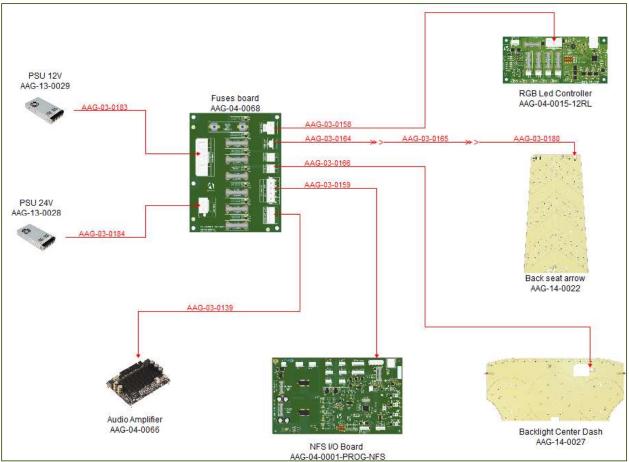
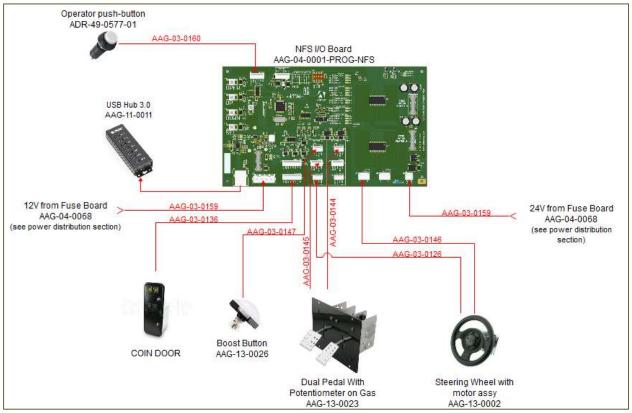


Figure 8.4: 12V/24V power distribution diagram



# I/O board section



The following figure shows all the items connected to the IO board.

Figure 8.5: I/O board interconnection diagram



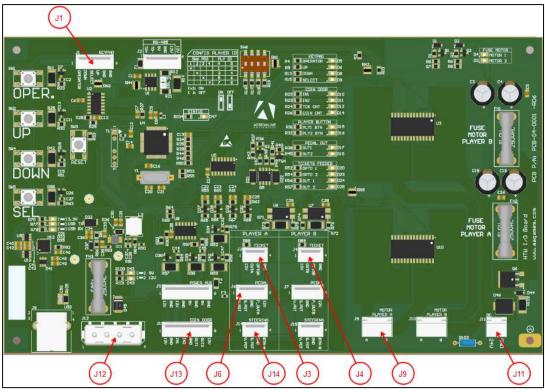


Figure 8.6: I/O board connectors locations

## Pin Definition:

#### J1: Operator Button (AAG-03-0160)

Pin	1	2	3	4	5	6
Definition	OPER.	n/c	n/c	n/c	GND	n/c
Color	RED				BLACK	

## J3: Boost Button (AAG-03-0147)

Pin	1	2	3	4
Definition	12V	OUTB	OPTOB	GND
Color	RED	BLACK	WHITE	GREEN

\*Note: pin 1-2 push-button light, pin 3-4 push-button contact.

### J4: Brake Pedal switch (AAG-03-0144)

Pin	1	2	3	4
Definition	n/c	n/c	OPTOB	GND
Color			RED	BLACK



#### NFS Heat Takedown - Motion V1.0 Chapter 07 – Parts

#### J6: Gaz Pedal potentiometer (AAG-03-0145)

Pin	1	2	3	4	5
Definition	V.POT	S.POT	GND	n/c	n/c
Color	RED	WHITE	BLACK		

### J9: Steering wheel motor (AAG-03-0146)

Pin	1	2	3
Definition	А	n/c	В
Color	RED		BLACK

### J11: 24V Supply (AAG-03-0159)

Pin	1	2
Definition	24V	GND
Color	RED	BLACK

### J12: 12V Supply (AAG-03-0159)

Pin	1	2	3	4
Definition	12V	GND	n/c	n/c
Color	RED	BLACK		

### J13: Coin Door (AAG-03-0136)

Pin	1	2	3	4	5	6	7	8
Definition	12V	GND	IN1	IN2	GND	OUT1	OUT2	12V
Color	RED	BLACK	RED	YELLOW	BLUE	ORANGE	BROWN	GREEN

### J14: Steering wheel potentiometer (AAG-03-0126)

Pin	1	2	3	4
Definition	V.POT	S.POT	GND	n/c
Color	RED	GREEN	BLACK	

# Coin door wiring connection

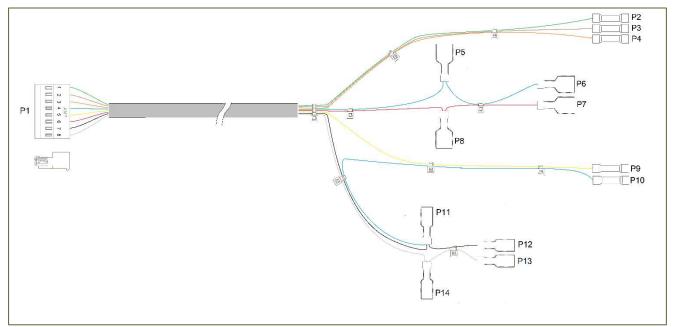


Figure 8.7: Coin door harness AAG-03-0136

Connection Chart					
Wire color	From	То	Function		
Green	P1-1	P2	12V coin counter		
Brown	P1-2	P3	Coin counter output 2		
Orange	P1-3	P4	Coin counter output 1		
Blue	P1-4	P5-P6	Common coin input 1 & 2		
Yellow	P1-5	P9	Coin input 2		
Red	P1-6	P7-P8	Coin input 1		
black	P1-7	P11-P12	GND		
white	P1-8	P13-14	12V		
blue	P11-P12	P10	GND		



# Audio section

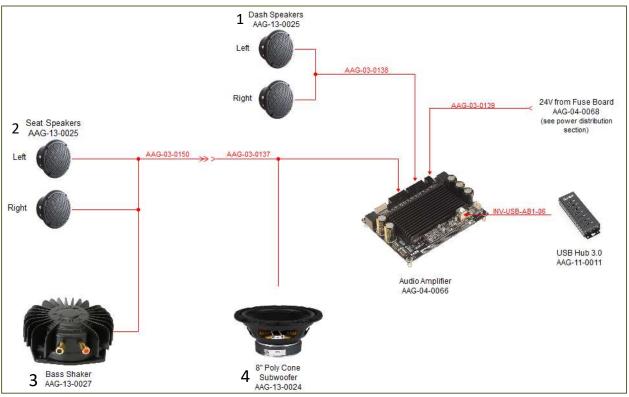
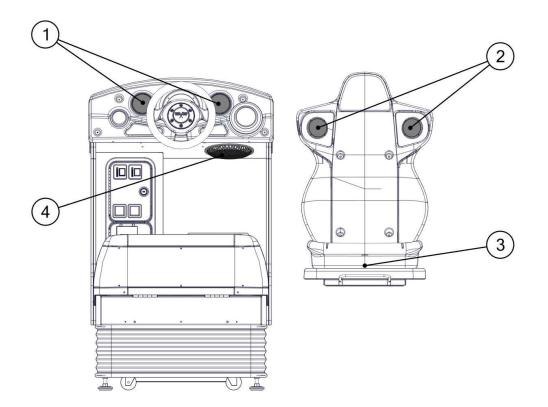


Figure 8.8: Audio connection diagram





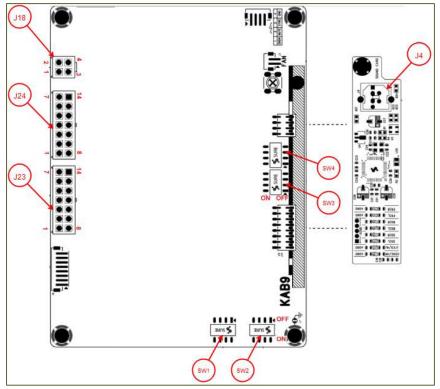


Figure 8.9: Audio amplifier connector location

## Pin Definition:

Pin	1	2	3	4
Definition	GND	GND	24V	24V
Color	BLACK	BLACK	RED	RED

## J23: Shaker, Subwoofer & seat speakers (AAG-03-0137)

Pin	1	2	3	4	5	6	7
Definition	SHAKER+	SUB+	n/c	n/c	SEAT L+	SEAT R+	n/c
Color	RED	RED			RED	RED	
Pin	8	9	10	11	12	13	14
Definition	SHAKER-	SUB-	n/c	n/c	SEAT L-	SEAT R-	n/c
Color	BLACK	BLACK			BLACK	BLACK	

## J24: Dash speakers (AAG-03-0138)

Pin	1	2	3	4	5	6	7
Definition	n/c	n/c	n/c	n/c	DASH L+	DASH R+	n/c
Color					RED	RED	
Pin	8	9	10	11	12	13	14
Definition	n/c	n/c	n/c	n/c	DASH L-	DASH R-	n/c
Color					BLACK	BLACK	

#### NFS Heat Takedown - Motion V1.0 Chapter 07 – Parts

Dip-switch settings:

SW1-1	SW1-2	SW1-3	SW1-4
ON	OFF	OFF	OFF
SW2-1	SW2-2	SW2-3	SW2-4
ON	ON	ON	ON
SW3-1	SW3-2	SW3-3	SW3-4
OFF	OFF	OFF	OFF
SW4-1	SW4-2	SW4-3	SW4-4
OFF	OFF	OFF	OFF

# Led controller section.

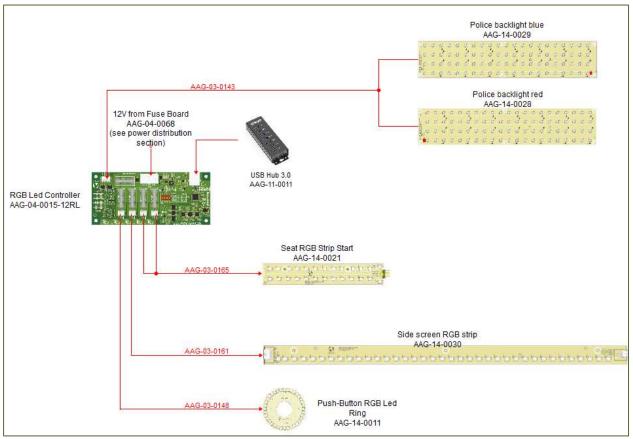


Figure 8.10: Led controller connection diagram.



### NFS Heat Takedown - Motion V1.0 Chapter 07 – Parts

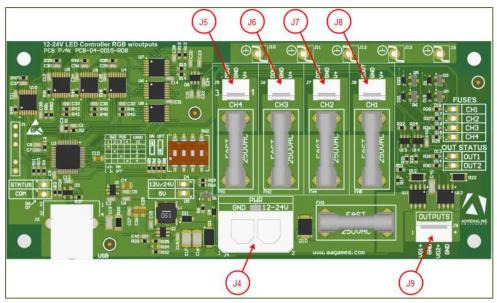


Figure 8.11: Led controller connector location.

# Pin description

J4: 12V Supply (A	AG-03-0158)			
Pin	1	2		
Definition	GND	12V		
Color	BLACK	RED		
J9:	Police backlight	t red & blue	(AAG-03-0143)	
Pin	1	2	3	4
Definition	12V	OUT1	12V	OUT2
Color	RED	BLACK	RED	BLACK
*No	ote: pin 1-2 red	police, pin 3	3-4 blue police.	
J5::	Seat RGB strip	ower row "(	CH4" (AAG-03-0164)	1
Pin	1	2	2	ļ
Definition	12V	GND	DOUT	
Color	BROWN	BLUE	WHITE	
J6: :	Seat RGB strip	upper row "	CH3" (AAG-03-0164)	-
Pin	1	2	2	
Definition	12V	GND	DOUT	
Color	RED	BLACK	GREEN	
J7: :	Side TV screen	RGB strip "C	H2" (AAG-03-0161)	-
Pin	1	2	2	
Definition	12V	GND	DOUT	
Color	RED	BLACK	GREEN	
J8:	Boost button R	GB ring "CH	1" (AAG-03-0148)	-
Pin	1	2	2	ļ
Definition	12V	GND	DOUT	
Color	RED	BLACK	GREEN	

# **Chapter 08 – Software Recovery**

If your unit software needs to be restored, please follow those instructions.

- Connect a USB keyboard to the motherboard.
- Connect the provided USB Recovery flash disk is in a *Black* USB port.
- Power on the unit and press F11 on the keyboard to display the boot menu.
- Choose the UEFI: USB device ~16GB

The process takes 25-30 minutes, and the unit will reboot back in the game at the end. The Wireless credentials will need to be re-entered and Operator settings will be back at the default ones.



# **Chapter 09 – Card Reader**

Configure your Operator settings as seen in Chapter 5 - Operator Menu.

## **Embed System**

If you are using an Embed system, you need to connect your harnesses to Adrenaline Amusements I/O board & harnesses. You should refer to the Embed instructions manual for wiring pin-out.

The typical Embed settings are *Standard* except:

-Ticket Mech Type: Dumb DC

-Drive Polarity: Positive

-Notch Polarity: Negative

-Game ticket notch width = 6 (60ms)

-Game ticket notch spacing = 24 (240ms)

-Game Drive Threshold = 15 (1.5V or 1500mV)

-Drive Debounce = 40ms



# **Chapter 10 – Troubleshooting**

# Troubleshooting

## \* <u>NOTE: When requesting a warranty replacement, you will be asked to</u> give the unit's serial number from the back of the unit.

## Video Troubleshooting

No Picture or Display	There might have loose or faulty connections between the monitor and the computer. Make sure the DVI cable is connected properly in the computer's video card and in the monitor connector.
Problem	Verify that the computer is powered on. The fan on the side of the computer case should be spinning as a reference, if it's not spinning press the Power Button on the front of the computer.

## Audio Troubleshooting

Low Volume / No	Increase the volume in the game by pressing the Operator Button and adjusting the volume options in the Operator Menu. You might also Quit the game to Windows desktop and increase the volume via the Speaker icon on the bottom right of your screen.
Sound	Verify the USB connection between the computer and the audio amplifier. Verify the fuse of the audio amplifier on the fuse board.



If the sound still not playing in all the speakers, please do the following procedure:

1. Right click on the sound icon in the task bar and select "Open Sound settings."



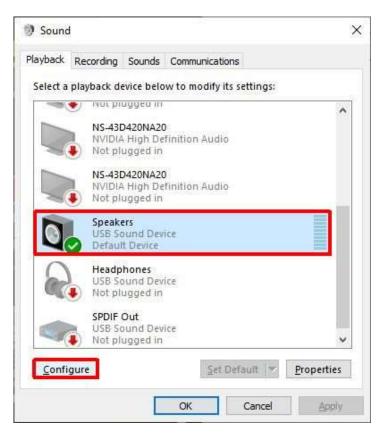
2. Click on the "Sound Control Panel".

		- 0 X
Settings		- U ×
යි Home	Sound	
Find a setting	Choose your output device	Related Settings
System	Speakers (USB Sound Device)	Bluetooth and other devices
	Some apps are using custom output settings. You can customize these in advanced sound settings.	Microphone privacy settings
🖵 Display	Device properties	Ease of Access audio settings
句)) Sound	Volume	
Notifications & actions	۵») 100	
D Focus assist	∆ Troubleshoot Manage sound devices	
🖒 Power & sleep	manage sound devices	
📼 Storage	Choose your input device	
B Tablet mode	Microphone (USB Sound Device) $\sim$	
目 Multitasking	Some apps are using custom input settings. You can customize these in advanced sound settings.	
X Shared experiences	Device properties	
🛱 Clipboard	Test your microphone	
>< Remote Desktop	▲ Troubleshoot	
① About	Manage sound devices	
	Advanced sound options $ \frac{\Phi_{0}}{\Phi_{0}} App volume and device preferences Customize app volumes and the speakers or devices they use.$	
	contentine approximent and the speakers of defines they does	

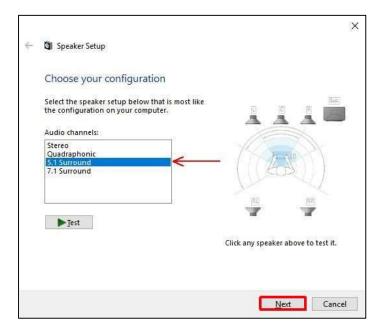


#### NFS Heat Takedown - Motion V1.0 Chapter 10 – Service & repair

3. Select "Speakers USB Sound Device" and click on "Configure".



4. Select "5.1 Surround" and click on "Next".

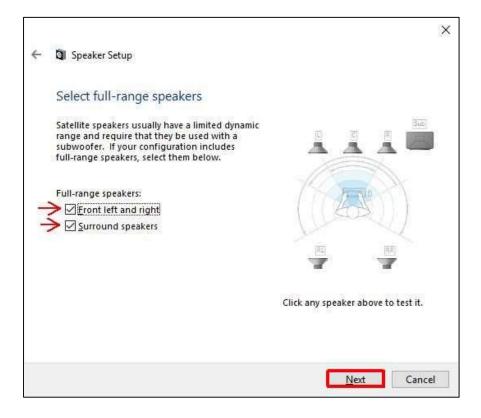




5. Select "Center", "Subwoofer", "Rear pair" and click on "Next".

Customize your configuration Check the boxes below to indicate which speakers are present in your surround configuration. Optional speakers: Subwoofer Side pair Rear pair	Speaker Setup	
speakers are present in your surround configuration. Optional speakers: Center Subwoofer Side pair	Customize your configuration	
✓ Center ✓ Subwoofer Side pair	speakers are present in your surround	
	Center Subwoofer Side pair	
Click any speaker above to test it		Click any speaker above to test it.

6. Select "Front left and right", "Surround speakers" and click on "Next".





7. Click on "Finish"

		×
4	Speaker Setup	
	Configuration complete	
	If you click "Finish" your new settings will be applied to this audio device. To make further changes, you can use the Properties dialog or run this wizard again.	
	Einish Car	ncel



# Computer not powering at boot.

If your computer is not powering on by itself at boot, you'll need to verify the Bios Setting.

-Power off the computer.

-Plug a USB keyboard and a USB mouse.

-Press the power button on the computer.

Press and hold F2 on the keyboard until you see the Bios screen.

/ERecti 2 MODE B660M-ITX/ac 4.04 12th Gen Intel (R) Core (TN) 13-12100F Processor Speed: 3300Hiz	CPU Temperature	me RGB (ON) M/B Temperatur	re 38.0 ℃	Adwanced Mode (F6) Switch To Advanced Mode
Total Memory: 8G8	54.0 °C	CPU Voltage	0.952 V	Mon 01/23/2023
DRAM Information	Fan Status		Boot Priority	
00R4_A1: Cructal 8G8 (3200)	CPU_FAN1	CHA_FAN1	Windows Boot Man KINGSTON SA400S	
DDR4_B1: None	1800	1976	Wind s Boot Har	
Storage Configuration				
SATA3_0: N/A	CHA_FAN2 N/A		É	
SATA3_1: N/A				
SATA3_2: KINGSTON SA400S37120G	CPU Fan 1	Catting		
SATA3_3: N/A				
M2_1: N/A	Stand	ard		
WO Support Disabled	Tools Instant Internet			
	FAN-Tasti	c Tuning		1 1

-Press on F6 or using a mouse click on advanced.

/ISReck	Polychrom	e AGBI KOND	English	Advenced Node (F6)
B660M-ITX/ac 4.04				Switch To Advanced Mode
12th Gen Intel(R) Core(THD 13-12100F			38.0 °C	11:1/
Processor Speed: 3300HHz		CPU Voltage	0.952 V	Mon
Total Memory: 8G8	54.0 °C			01/23/2023
DRAM Information	Fan Status	6	oot Priority	
0084_A1: Crucial 808 (3200)	CPU_FANL 1800	CHA_FANL 1976	Hindows Boot Rat	
COR4_81: None	1900	1910	Wind s Boot Ha	Niger
Storage Configuration				
SATA3_D: N/A	CHL_FAN2 N/A		N.E.	
SATA3_1: N/A			100	
SATA3_2: KINGSTON SA4005371205	CPU Fan 1 1	Setting		
SATA3_3: N/A	12 PM II		1 1 2	
M2_1: N/4	Standa	rd		al an
VMD Support Disabled	Tools		-ALS	
	Instant	Flesh	Same 2	
	Internet	Flash		
1	FAN-Tastic	Tuning		1 10



-Then click on Chipset Configuration.

			/ISRec			Ea	sy Mode (F6)
Main	🍐 OC Tweaker	Advanced	X Tool	⊕ H/W Monitor	Security	ن Boot	D Exit My Favorite
<ul> <li>CPU Configura</li> <li>Chipset Configura</li> <li>Storage Configura</li> <li>Super IO Configura</li> <li>ACPI Configura</li> <li>USB Configura</li> <li>Trusted Comparison</li> <li>AMD Graphic</li> <li>UEFI Configurati</li> </ul>	iguration figuration figuration ration ation uting Driver Health					ription re Chipset Settings.	
<pre>0 UEFI Setup Style 0 Active Page on N 0 Full HD UEFI</pre>				Easy Mode Main Auto Eng	7 C	ails via OR code Mon 01/23/2023, 09:20	:03

-Go to the bottom of that page, click/select the line Restore AC Power Loss, click on the drop box where it displays "Power Off" and select Power On.

/ISRock LIEFI							
🗮 Main 🚯 OC Tweaker	Advanced	<b>X</b> Too1	O H/W Monitor	🖲 Security	<b>U</b> Boot	I Exit	
Advanced\Chipset Configuration				G	My Favorite	Easy Mode (F6)	
DMI ASPM Support			Disabled				
I PCH DMI ASPM Support			Enabled				
				1	Description		
I Share Memory			Auto		ect the power state		
🚺 IGPU Multi-Monitor	Power On selected, the s			the	power will remain	in off when the	
I Intel(R) Ethernet Controller I211					stem will start to boot		
I Onboard HD Audio			Auto				
Front Panel			HD				
I WAN Radio			Enabled				
I Deep Sleep			Disabled	Get	details via OR cod	e 🔛	
I Restore on AC/Power Loss			Power Off				
					Reserve	10000	
			Eng	lish	Sun 01/27/2019.	06:56:44	



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-On your keyboard press on f10 and then click on OK to confirm and save the settings. Or go to the Exit tab, click save and Exit.

	/ISRect	LEFI	
📰 Main 🏟 OC Tweaker 🖄 Adva	nced 🔀 Too1	O H/W Monitor	Security U Boot Exit
<ul> <li>I Save Changes and Exit</li> <li>I ← Discard Changes and Exit</li> <li>I ← Discard Changes</li> <li>I ← Load UEFI Defaults</li> </ul>			<pre>I Description Exit system setup after saving the</pre>
<ul> <li>Launch EFI Shell from filesystem device</li> <li>Boot Override</li> <li>UEFI: Generic Flash Disk 8.07, Partition 2</li> <li>USB: Generic Flash Disk 8.07</li> </ul>	Save Changes Save configuration changes		
		English	Get details via OR code





## Customers must provide the unit serial number when claiming any warranty request.

Adrenaline Amusements (AAGames) warrants this Arcade unit (Including accessories) against defects in material or workmanship as follows:

This unit has a 1-year warranty against defective hardware from date of delivery.

Other than abuse or improper servicing, Adrenaline Amusements covers at no charge the replacement parts including standard shipping.

We offer an advanced replacement program, and the customers have 30 days from delivery date to return back the defective equipment at their fees or they will be charged automatically for the replacement parts.

# Improper servicing or abuse will VOID existing warranties.

All warranty request needs to be validated with our technical support department.

After the 1-year warranty, Adrenaline Amusements offers repairs & sales services options. Please contact the technical support department for information.

Adrénaline Amusements Inc. 2273 Antonio-Héroux Street Terrebonne, QC J6X 4R3 Canada +1.450.824.1671

