

VR AGENT-TWIN

User Manual



AWARNING =

- For safety reasons, please read the manual first before plugging in machine.
- Please keep this manual properly for convenient reference as needed.

About This Manual

Thank you for purchasing this product.

The manual describes how to install, set up, use and maintain the product. The main purpose of the manual is to instruct how to operate the product correctly and safely. Please follow all the safety and warning instructions in the manual to avoid personal injury and product damage.

This product may only be maintained by a technician. A technician mainly refers to a person who has obtained a certificate/qualification related to mechanical engineering, electrical engineering or at a level equal to that of technical school graduates, and is engaged routinely in the maintenance, management, repair of amusement machine.

When transferring the ownership of this product, be sure to provide this manual with the machine.

For further information about the game and repair (including consumables), please contact our company.

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1. Safety Precautions

1.1 Warning Stickers

In order to avoid injury to related people and damage to property, please observe the followings:

PLEASE READ FIRST

The following marks can be used to indicate the magnitudes of risk and damage caused by ignorance or improper operation:



means "may result in serious injury or death"



means "may result in minor injury or property damage"

Serious Injury: refers to the situations in which medical treatment from a trained medical professional should be sought immediately.

Minor Injury: refers to the cases that self-administered medical treatment would be sufficient to treat injuries that may occur

Property Damage: refers to the damage of premises, facility, structure(s), and/or possessions



- Please make sure the place line has been grounded before product installation, setup, testing, operation or repair.
- This machine is designed for indoor use only. Never install the machine outdoors. Meanwhile, please avoid the following locations indoor:
 - Direct sunlight, water leakage, damp and high temperature places.
 - Near Flammable, volatile, or/and dangerous substance.
 - Slope, unstable places or locations subject to frequent vibration.
 - Near emergency exit, fire extinguisher or similar equipment.
- The rear part has the vent for heat emission from PC or screen. Don't place anything nearby to avoid game failure.
- Provide a space of minimum 30cm between the rear of the machine and the wall for good ventilation and heat emission.

1.3 Safety Precautions

The owner shall pay attention to the followings when placing, checking and repairing machine to ensure player's security and avoid damage:



- Please check the voltage is 110V or 220V before the machine connectes to the power supply, or it may cause a fire or electric shock.
- Make sure to plug the game into 110V or220V main outlet to avoid fire and elecrtic shock.
- Make sure to turn off the power when performing maintenance and service to avoid electric shock or short circuit.
- Do not unplug or plug the plug instantly.
- Do not touch the power plug with a wet hand to avoid electric shock.
- Do not expose the power cord/grounding line on the passageway. Failure to do this will damage the power cord, causing electric shock or short circuit.
- Do not place anything near to the power cord to avoid fire.
- Do not pull the power cord when unplugging, please hold the plug to avoid power cord damage, causing fire or electric shock.
- In case of power cord damage, please contact the local distribution for replacement
- Only use fuse and spare parts specified by our company
- Connect the connector firmly and tighten the screws.
- Do not dismount, replace or convert the product without our permission in order to avoid damage and human injury due to improper operation.
- Check and maintain the machine regularly.
- Keep "WARNING stickers" clean and legible. Replace it immediately when the words are not legible or the dirt cannot be removed.
- Please connect our service center when performing any work that is not described in this manual, and follow the instruction provided.



- In order to avoid injury and accident during play, the following people shall not play the game :
 - People who are injured or less mobile.
 - Person with poor health condition, such as hypertension or heart disease.
 - Person wearing high-heeled or slippery shoes.
 - Person who's feet cannot touch the stepping base.
 - Pregnant woman, drunk people.
- When a player feels uncomfortable during play, remind the person to have a break, or stop playing.
- Make sure the player reads the Warning labels and other indications, and plays in accordance with the instructions to avoid accidents such as electric shock and short circuit.
- Bystander shall not operate any button when the player is playing the game to avoid unnecessary trouble.



Transporting

- When transporting teh machine with an elevator, be sure to employ "Lift Point" to prevent accident and damage to the machine.
- To present movement when transporting the machine on a vehicle, please fix the casters and fully retract the adjusters. Failure to do this may cause damage to the machine.
- When carrying the machine with a forklift, be sure to insert the fork to fork position and lift stably or it may cause accident and damage to the machine.
- The glass and LCD screen are fragile. Avoid voilent vibration or shock when transporting.

Moving

- Before moving the machine, unplug the power plug to prevent accident. Do not damage the cord.
- Pay attention to the obstructions and uneven surface when moving the machine to prevent accident and damage to the machine.
- Fully retract all adjusters before moving to prevent accident and hazard.
- Make sure to use at least two persons to conduct the above work to avoid accident and injury.
- Pay attention to the moving direction, see fig.







Pay attention to the following when placing the machine.



- Place the machine on the flat and slip resistant area.
- Use the adjusters to fix the machine (See Diagram A).
 - 1. Loosen the nuts for the adjusters(clockwise), tighten the bolts with a wrench (clockwise).
 - 2. Tighten the nut firmly (counter clockwise) and fix it well.

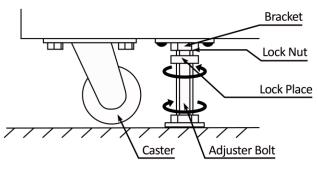
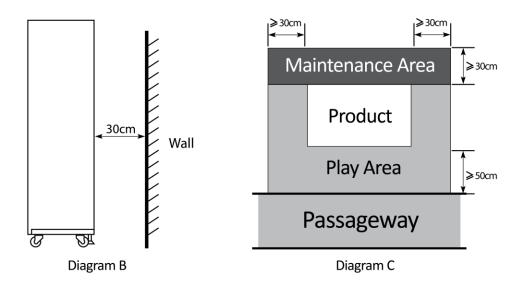


Diagram A

■ Provide a space of minimum 30cm between the rear of the machine and the wall for good ventilation and heat emission (see Diagram B and C).



2. Product Description

2.1 Product Specification

Location	Indoor Only
Dimension	3500(W) x 2730(D) x 2355(H)mm
Rated Voltage, Frequency	AC220V 50Hz /60Hz
	AC110V 60Hz
Power Consumption	1350W
■ Weight	642kg
■ Temperature Range	5~40 °C

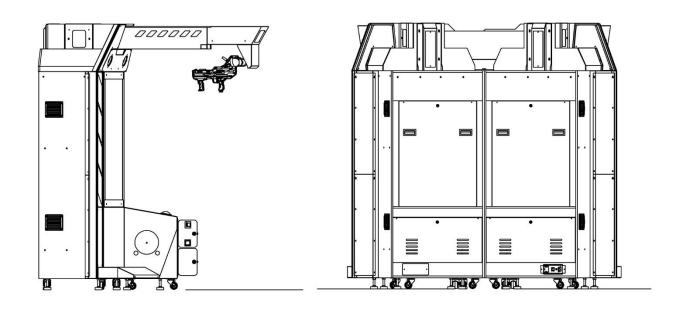
^{*110}V voltage can be set through the transformer and fuse. Please contact the distributor for details. NOTE: The contents herein described are subject to change without notice.

▶ Front View ▶ Side View 3500mm ▶ 2730mm

2.2 Cabinet Overview

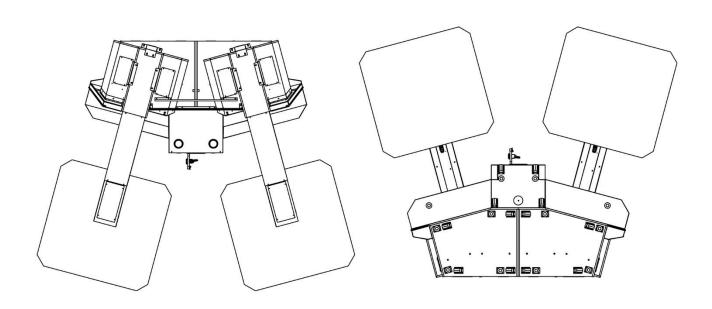
➤ Side View

► Rear View



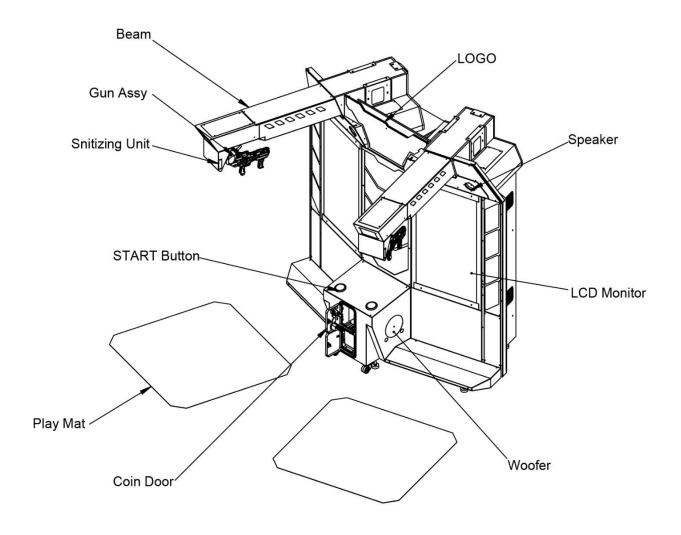
► Top View

► Bottom View

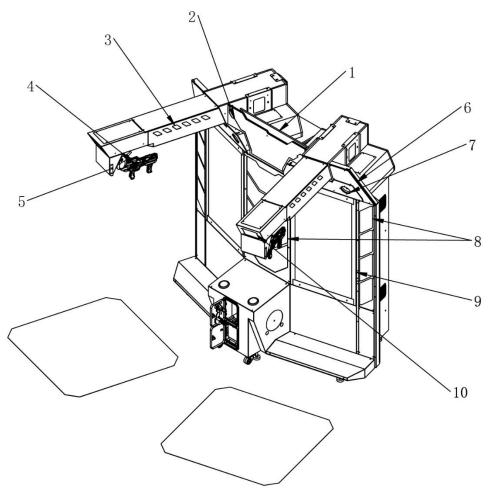


2.3 Parts Name

2.3.1 – Cabinet Component List

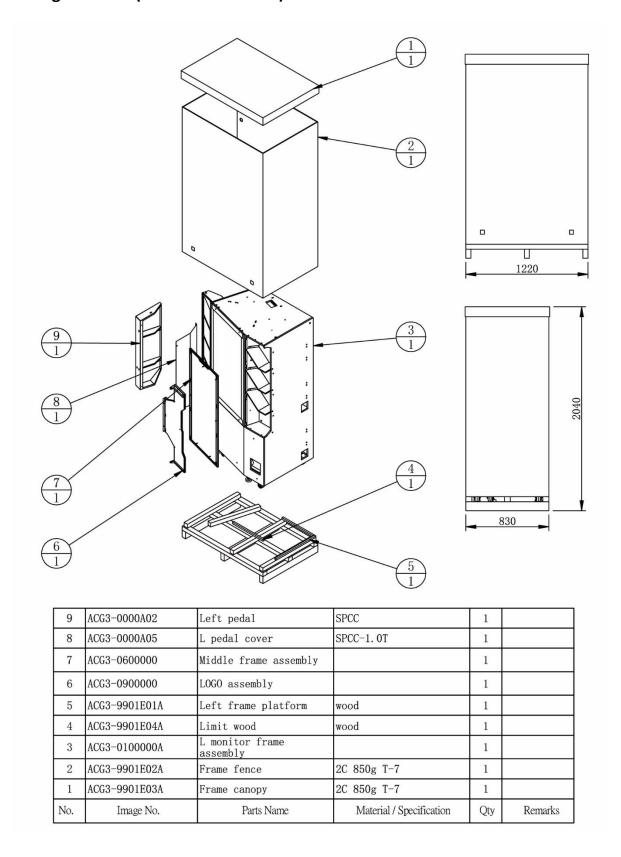


2.3.2 – Cabinet LED List

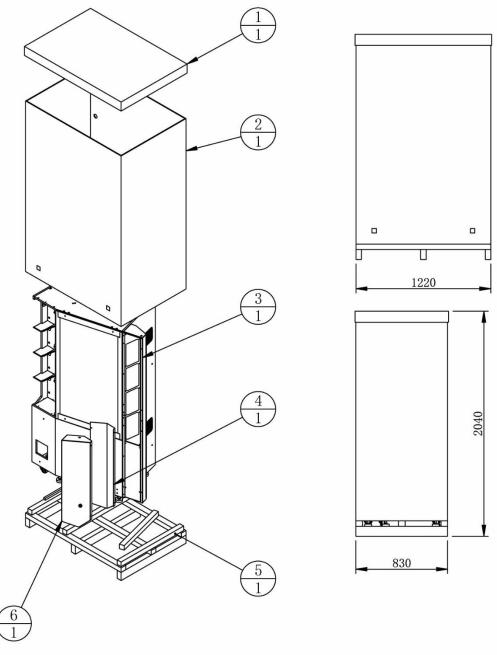


No.	name	specification	
1	5050 soft light	DC12V White L=900mm	
1	5050 Soft fight	DC12V White L=400mm	1
2	5050 soft light	SK6812 L=50+50+50mm	2
3	5050 soft light	DC12V RGB L=650mm	4
4	5050 soft light		
5	Disinfection lamp		
6	5050 soft light	SK6812 chip soft strip lamp L=450mm	2
7	5050 soft light	DC12V RGB L=400mm	
8	5050 soft light	SK6812 chip soft strip lamp L=200 SK6812 chip soft strip lamp L=1800mm	
9	5050 soft light		
10	10 5050 soft light DC12V White L=150mm		2

Packing Carton 1 (Main Cabinet Left): 1220 X 830 X 2040MM

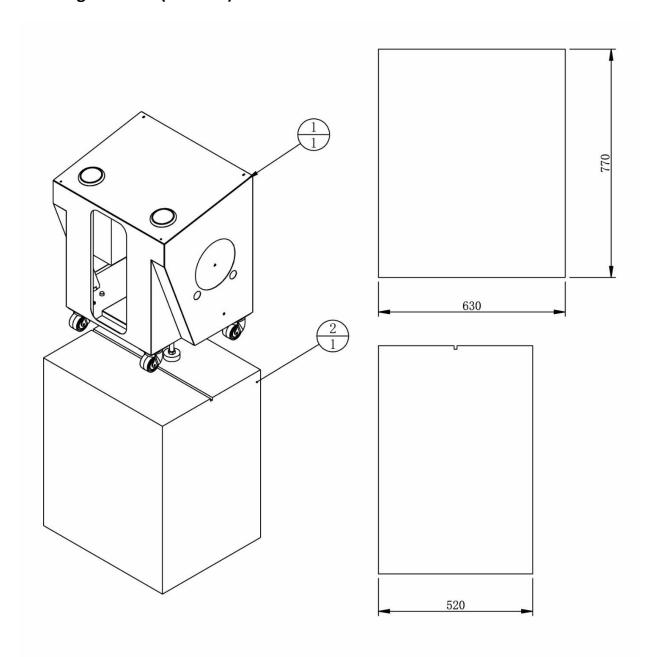


Packing Carton 2 (Main Cabinet Right): 1220 X 830 X 2040MM



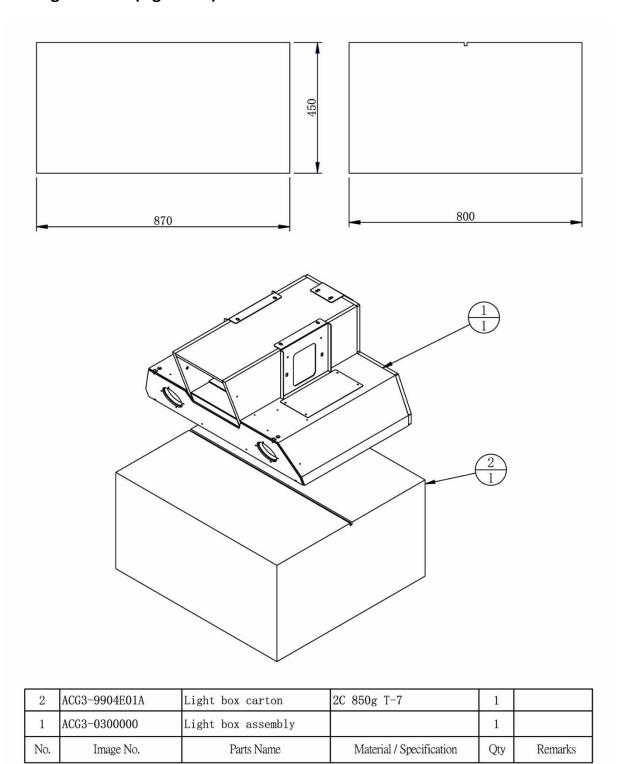
6	ACG3-0000A03	Right pedal	SPCC	1	
5	ACG3-9902E01A	Right frame platform	wood	1	
4	ACG3-0000A06	Right pedal cover	SPCC-1. OT	1	
3	ACG3-0700000A	R monitor frame assembly		1	
2	ACG3-9901E02A	Frame fence	2C 850g T-7	1	
1	1 ACG3-9901E03A Frame canopy		2C 850g T-7	1	
No.	Image No.	Parts Name	Material / Specification	Qty	Remarks

Packing Carton 3 (Console): 630 X 770 X 520MM

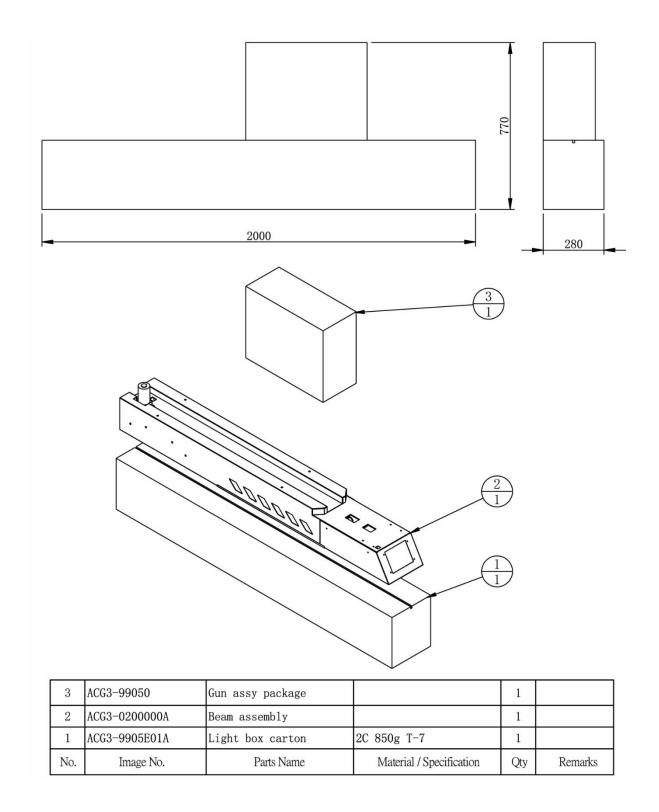


2	ACG3-9903E01A	Console carton	3C 1100g T-10	1	
1	ACG3-0400000	Console assembly		1	
No.	Image No.	Parts Name	Material / Specification	Qty	Remarks

Packing Carton 4 (Light Box): 870 X 800 X 450MM



Packing Carton 5 (Crossbeam): 2000 X 280 X 770MM



2.5 Packing List

Please check the following items after purchasing our product. If any part is missing or damaged, please contact our salesperson.

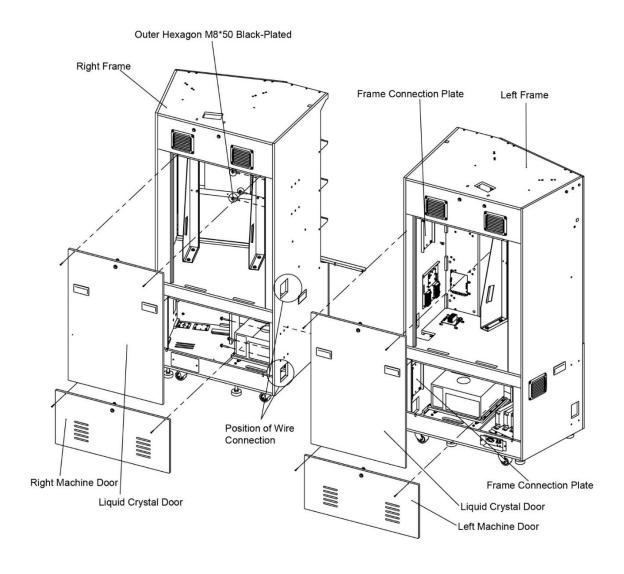
No.	Name	Material/Specification	Quantity	Remarks
1	AC Cable	3m (1.0m m³) (Slanted foot)	1	
2	Lexus key		2	
3	Cross flat head screw	M4*16 (Black)	18	
4	Hex socket cap screws	M4*12 (Chrome)	12	
5	Hex socket cap screws	M4*12 (Black)	8	
6	Hexagon triple combination	6*16*12*1.2(Black)	12	
7	Hexagon triple combination	8*30*16*1.5 (Black)	20	
8	External hex socket screw	M8*50 (Black)	20	
9	External hex socket screw	M8*40 (Black)	20	
10	Spring washer	M8 (Black)	40	
11	Plain washers	ф8*ф22*2.0 (Black)	40	
12	User Manual		1	

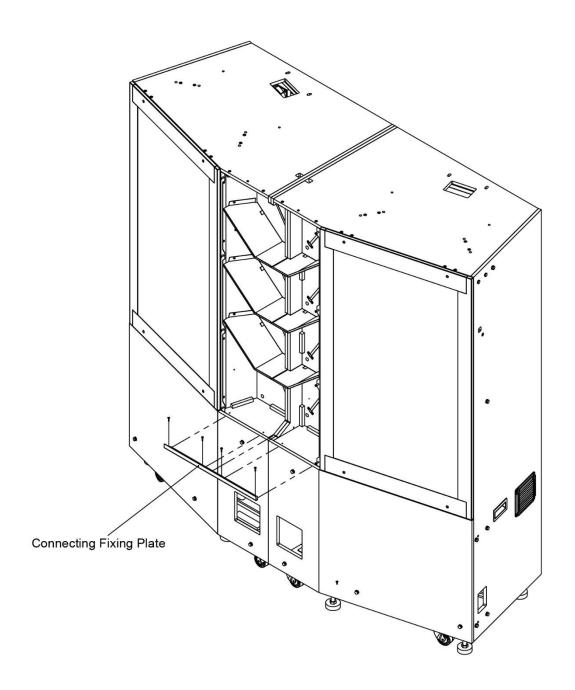
2.6 Install Direction

2.6.1 – Installation of Cabinet

Step 1: Connect the left and right frames

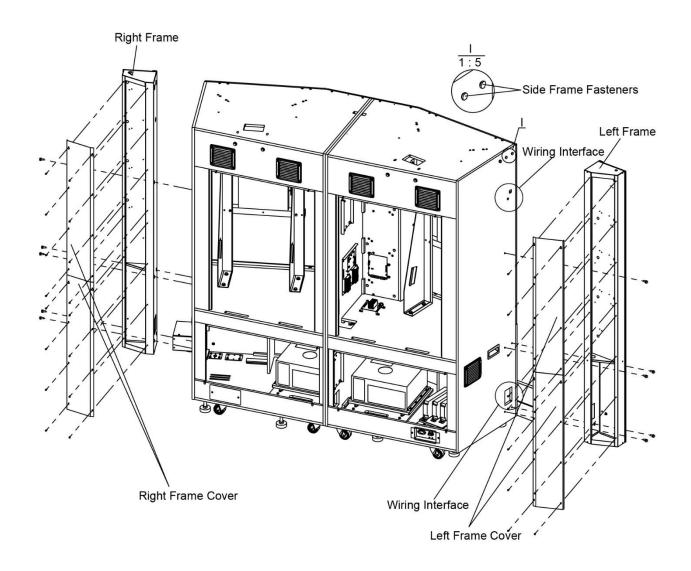
- 1. Remove 4 Socket head cap screws(M4*35) for liquid crystal door at right frame and right machine door for later use.
- 2. Remove four 4 Socket head cap screws(M4*35) for liquid crystal door at left frame and left machine door for later use.
- 3. Remove two liquid crystal doors with the key, place the left and right machine doors for later use.
- 4. Lock the connecting plate of frame body with 8 outer hexagon M8*50 black-plated screws (with spring washer and flat washer).
- 5. Lock the fixing plate with 4 large cross flat heads M4*16 black-plated screws.
- 6. Connect all cable connectors and connect network cables for PC at right frame.





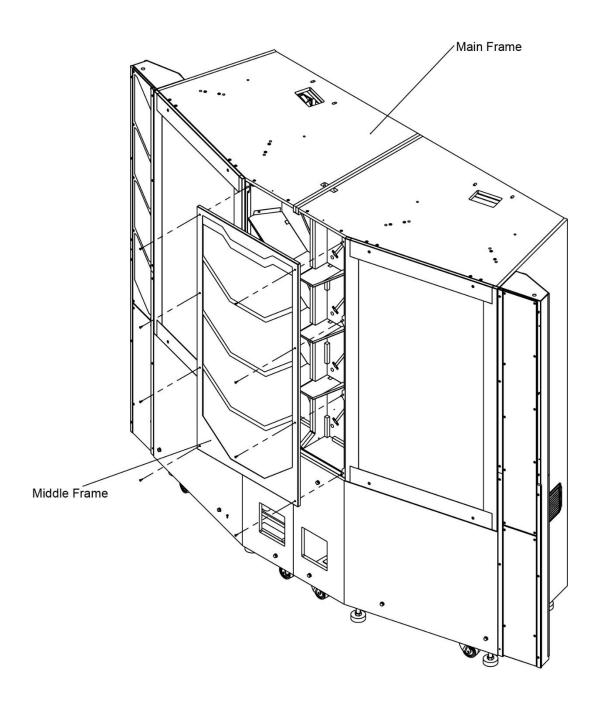
Step 2: Connect the left and right frames to the main frame

- 1. Remove 16 Socket head cap screws(M4*12) on the right frame and remove two right frame covers for later use.
- 2. Remove 16 Socket head cap screws(M4*12) on the left frame and remove two left frame covers for later use.
- 3. Hang the left frame on two side frame fasteners (note: the above wires must pass through the holes in the figure to facilitate subsequent wire connections) and connect the wires at three places above and below the left frame.
- 4. Hang the right frame on two side frame fasteners (note: the above wires must pass through the holes in the figure to facilitate subsequent wire connections) and connect the wires at three places above and below the right frame.
- 5. Lock the left frame with 5 outer hexagonal three-combination M8*30 black-plated screws.
- 6. Lock the right frame with 5 outer hexagonal three-combination M8*30 black-plated screws.
- 7. Lock the two left frame covers with 16 Socket head cap screws(M4*12).
- 8. Lock the two right frame covers with 16 Socket head cap screws(M4*12).



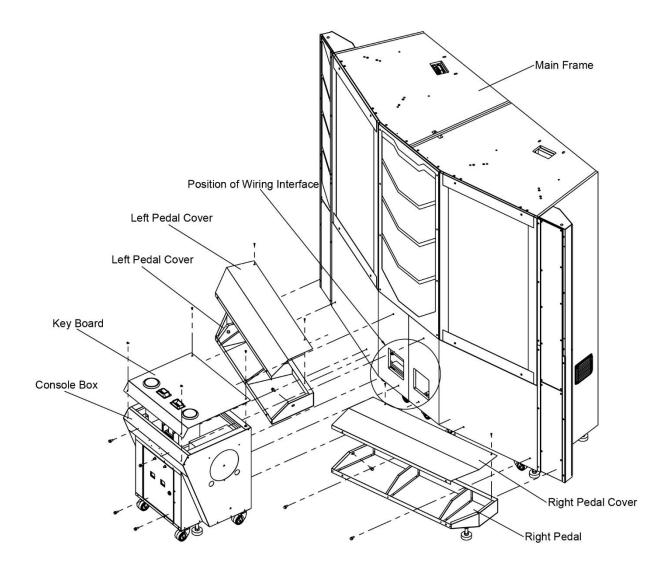
Step 3: Connect the middle frame to the main frame

- 1. Connect wires at two places above the middle frame and at the main frame (two persons are required to work together).
- 2. Lock the middle frame to the main frame via using eight M4 flat head hex screws.



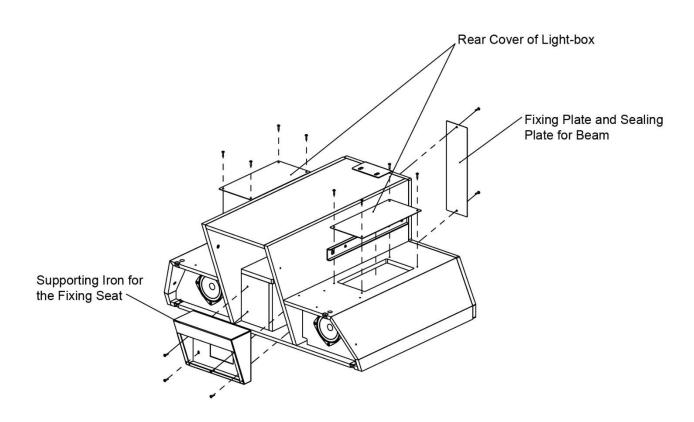
Step 4: Connect the left and right pedals with console box and main frame

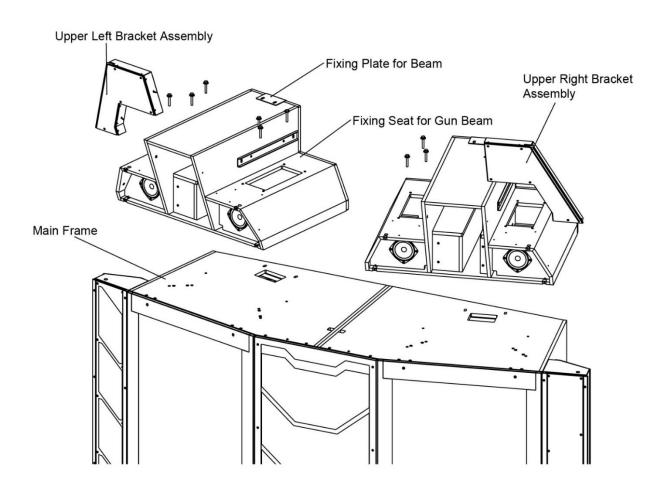
- 1. Remove 4 Socket head cap screws(M4*12) the right pedal and remove the cover of right pedal for later use.
- 2. Remove 4 Socket head cap screws(M4*12) on the left pedal and remove the cover of left pedal for later use.
- 3. Remove 4 Socket head cap screws(M5*12) on the keyboard and remove the keyboard for later use.
- 4. Lock the console box on the main frame via using 4 outer hexagonal three-combination M8*30black-plated screws.
- 5. Connect the wires at console box and the main frame.
- 6. Lock the right pedal on the main frame and console box via using 3 outer hexagonal three-combination M8*30 black-plated screws.
- 7. Lock the left pedal on the main frame and console box via using 3 outer hexagonal three-combination M8*30 black-plated screws.
- 8. Lock the right pedal cover on the right pedal with 4 Socket head cap screws(M4*12).
- 9. Lock the left pedal cover on the left pedal with 4 Socket head cap screws(M4*12).
- 10. Connect the wires at keyboard and the console box and lock the keyboard on the console box with 4 Socket head cap screws(M5*12).



Step 5: Connection of the fixing seat for gun beam and the main frame

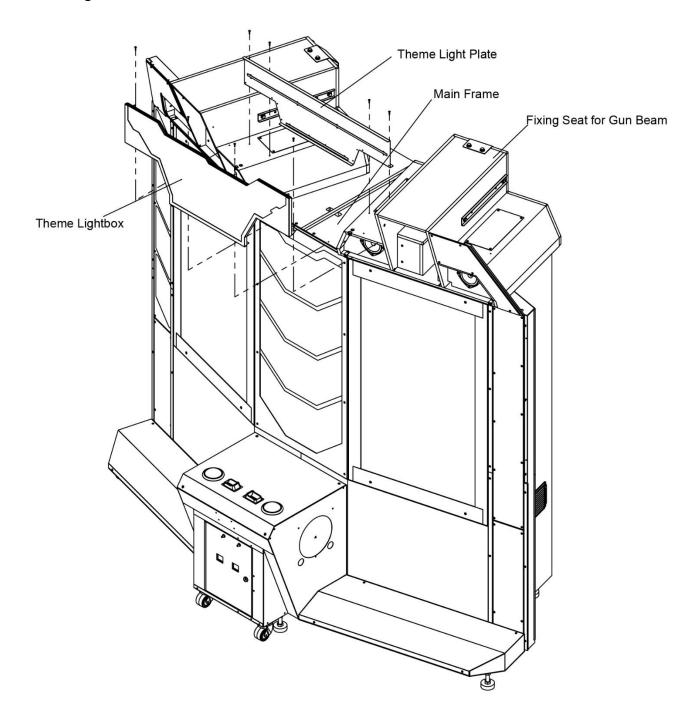
- 1. Remove 4 Cross combination screws(M4*20) for supporting iron of the fixing seat and remove them for later use.
- 2. Remove 8 Socket head cap screws(M4*20) on two rear covers of lightbox and remove them for later use.
- 3. Remove 2 Socket head cap screws(M4*12) on the fixing plate and sealing plate for beam and remove them for later use.
- 4. Use twelve M8*50 outer hexagon screws (with spring washers and flat washers) to lock the two fixing seats for gun beam on the main frame respectively (this operation shall be caried out by at least two persons, and two herringbone ladders are required).
- 5. Use six M4*16 (black-plated) cross large flat head screw to fix the left and right upper bracket components to the fixing seat of gun beam respectively and connect the wire (herringbone ladder is required for this operation).
- 6. Use four M8*40 hex screws to fix the two beam fixing plates on the main frame respectively (herringbone ladder is required for this operation).
- 7. Use 16 Socket head cap screws(M4*20) to fix four rear covers of light boxes on the fixing seat for gun beam respectively.





Step 6: Connect the theme lightbox, theme light board and main frame

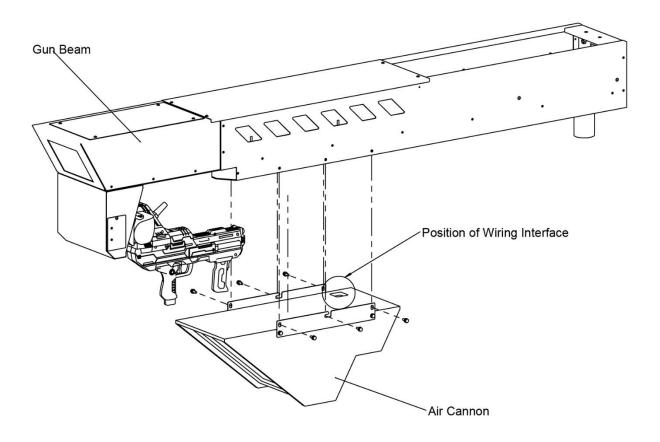
- 1. Use four M4*16 (black-plated) cross large flat head screws to fix the theme lightbox on the fixing seat for gun beam and the main frame (this operation shall be caried outby two persons via cooperation, and two herringbone ladders are required), connect the wire, pay attention to the distinction between left and right.
- 2. Use four M4*16 (black-plated) cross large flat head screws to fix the theme lamp board to the fixing seat for gun beam and connect the wires.



Note: Move the machine to the placement position, and unscrew all the feet!

Step 7: Connect the air cannon to the gun beam

- 1. Connect the wires between air cannon and the gun beam.
- 2. Use six M6*16 (black-plated) outer hexagon screws to fix the air cannon on the gun beam (do not clamp the wire).

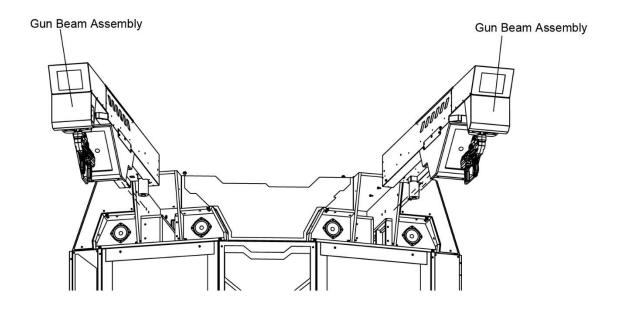


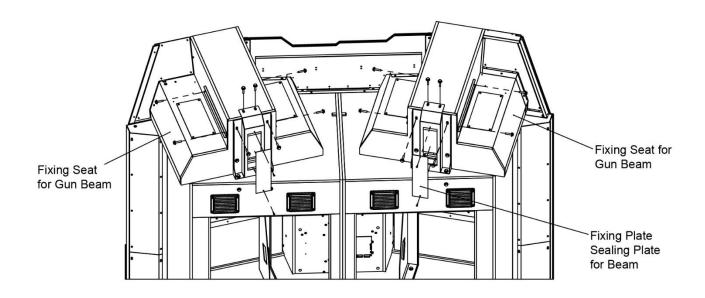
Step 8: Connection of gun beam assembly and the fixing seat for gun beam

1. Put the gun beam assembly slowly into the fixing seat for gun beam (note: clean up wires at the rear to prevent it from being clamped) and fix it on the fixing seat for gun beam with eight M8*40 hex screws (with spring washers and flat washers).

(This operation requires at least 3 persons and 2 herringbone ladders).

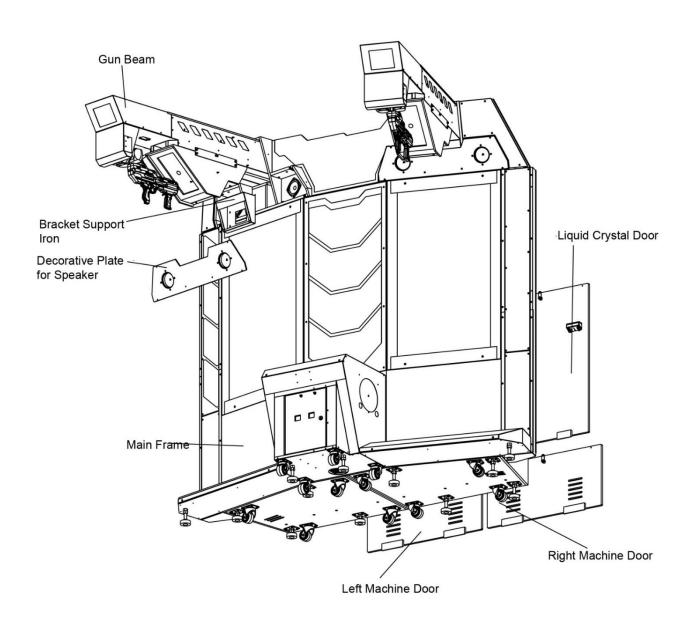
2. Connect all the wires at the rear, and then fix the two fixing plates and sealing plates for beam on the fixing plate for beam with 4 screws respectively (herringbone ladder is required).





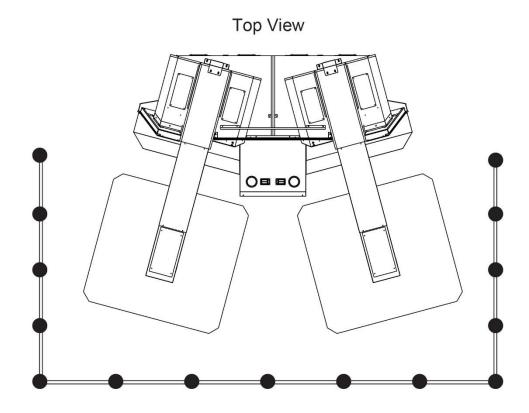
Step 9: Installation of decorative plate for speaker and supporting iron for the fixing seat

- 1. Use 4 Cross combination screws(M4*20) each to fix two supporting irons for fixing seat on the fixing seat for gun beam respectively
- 2. Connect the wires between decorative plate for speaker at one side and the fixing seat for gun beam, lock and fix it with six M4*12 (chrome-plated) hex large flat head screws.
- 3. Connect the wires between decorative plate for speaker at another side and the fixing seat for gun beam, lock and fix it with six M4*12 (chrome-plated) hex large flat head screws.
- 4. Lock 2 liquid crystal doors on main frame with four screws.
- 5. Use 4 Cross combination screws(M4*20) to lock the left machine on the main frame.
- 6. Use 2 Socket head cap screws(M4*35) to lock the right machine on the main frame.



Safety Range of Installation

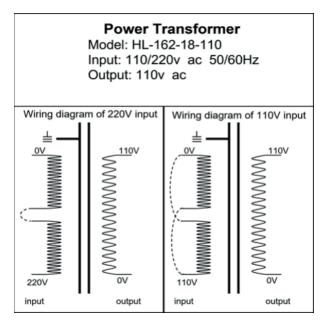
Safety Range

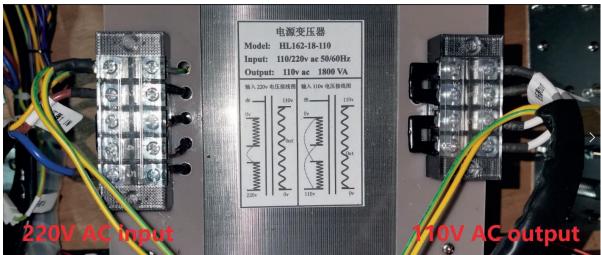


Suggestions: After installing the machine, please set a certain warning range to remind other players not to approach the player who is playing the game, so as to avoid injury.

Special attention: When special case occurs in shipment, please check "Installation guide" in attachment box of shipment, and make assembly according to installation guide; special supplement will not be made in this instruction.

2.6.2 – Installation of Transformer Wiring Switch







2.7 Warranty

Scope

- Inquiry regarding product can be assisted for free.
- The warranty scope for consumables and durables may differ from product to product. Please contact our after-sales service center for detailed information. The right of final interpretation is reserved.

■ Exclusive

- Damage caused by force majeure.
- Failure caused by carelessness, such as water contact, falling down, toppling, knocking.
- Failure caused by disobeying the instructions in this manual.
- Failure caused by operating the machine on inappropriate site.
- Change the original design and configuration for the game without notice.
- Failure to perform regular service and clean.
- Failure to fix the product in line with the manual's requirement.
- Malfunction or part damage caused by electromagnetic interference other electronic equipments generated.

■ Non-warranty Consumables

- Light tube and bulb
- Button lamp and switch
- Fragile items
- Solenoid
- Other spare parts

3. Game Description and AO MENU

3.1 Game Description

3.1.1 GAME FEATURE

- Immersive Missions with unique VR aiming Control with Haptic Rumble feedback
- Up to 4 players linked play
- 5 Exotic Stages with Final Stage to face the BOSS
- 2 Game Modes:
 - -1 Player Solo
 - -Multiplayer (support link-play up to 4 players at a time)
- Game Difficulties: Easy, Normal and Hard
- Air cannon system for enhanced VR experience
- Full LED illuminated Cabinet

3.1.2 GAME CONTENT

<u>Scenes</u>

There are total of **5** scenes:

• 1 - Nightclub



• 2 - Tunnel



• 3 - Factory



• 4 - Warehouse



• 5 - BOSS Stage

Stages

• There are total of **5** stages.

Difficulties

• There are 3 levels of difficulties: Easy, Normal and Hard

Game Modes

- 1 PLAYER SOLO
- MULTIPLAYER (support link-play up to 4 players at a time)

3.2 Game Flow

3.2.1 Front-End MENU

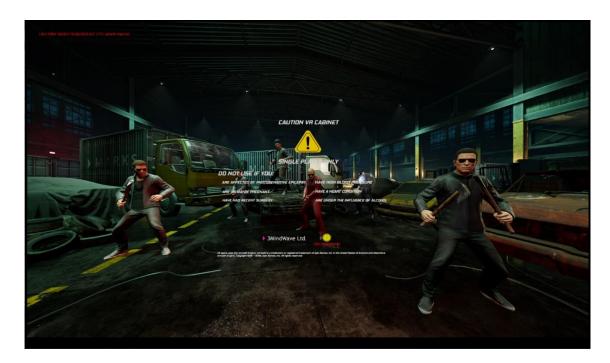
(1) Insert Coin Page

Insert coin page will be appeared to ask player to insert coins and start the game.



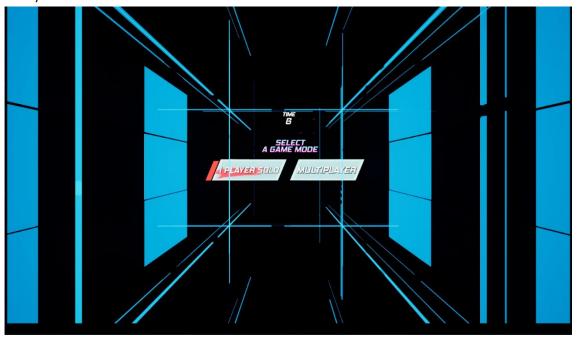
(2) Warning Message

A warning screen will appear after game is started.



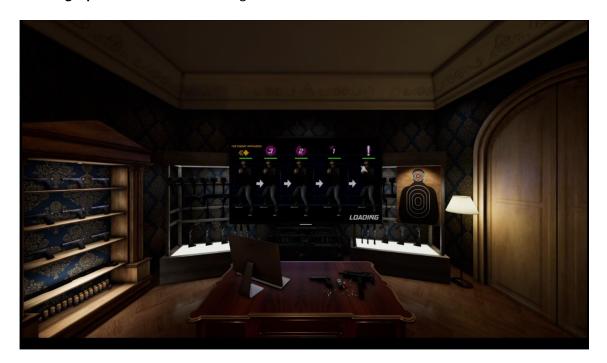
(3) Select Game Mode

The game has two game modes: **1 PLAYER SOLO** and **MULTIPLAYER** (support link-play up to 4 players at a time)



(4) Loading Screen

Learning Tips will be shown in loading screen.



3.2.2 In-Game HUD

(5) In-Game HUD

Game START

Game starts at once right after the loading is finished.



UI Screen

During the game, status of the player will be displayed around the screen.





1 - Game countdown time	5 - Enemy's health
2 - Player's health	6 - Enemy's weak point(s)
3 - Number of bullets	7 - Enemy position locator
4 - Countdown enemy attack time	

3.2.3 Back-End MENU

(6): Player Result

The game ends when the player completes the stage or has no life remaining or time is up.

After the game is over, the performance of all players in the stage will be displayed.



3.3 USB Drive Patching

USB Patching Steps:

- 1. Create a directory named [VRAgentUpdate] in the USB (for example, U:\VRAgentUpdate\), and copy the new game update software to this directory.
- 2. Turn off the host computer of the VR Agent machine.
- 3. Please insert the USB Drive into the host computer of VR AGENT machine.
- 4. Restart the host computer of the VR AGENT machine, the game launcher will automatically start and install updates from the USB drive.
- 5. After USB patching is completed, please remove the USB drive from VR AGENT machine.

3.4 Operator MENU

Arcade Operator

1. Under the game **Title Screen**, press the [**Menu**] key of the coin control box to enter the [**Arcade Operator**], the **main arcade operator** menu is shown as below.



2. In the main menu screen, use the [LEFT] and [RIGHT] arrow buttons to select a menu item, press the [START] button to enter the **sub-menu list**.

The main menu includes the following settings:

- Game Settings
- Bookkeeping Settings
- Credit Settings
- Input Settings
- Output Settings
- Clock Settings
- Network Settings
- Language Settings
- Reset All Settings
- 3. Use the [LEFT] and [RIGHT] arrow buttons to select the preference of the selected sub-menu item. Select [Back] at the bottom of the sub-menu list to go back to main menu screen.
- 4. Setup is saved automatically.
- 5. To exit the **arcade operator** user interface, press the [**MENU**] button. It will go back to the game title screen with new settings.

3.4.1 Game Settings



1. Enter [Game Settings], you can set the following items:

Setting Items	Setting Content
Player Life	1-99
Difficulty	1/2/3 (1 = the easiest)
Dynamic Difficulty	On/Off
Reset Settings	Reset
Back	Back

3.4.2 Bookkeeping Settings



1. Enter [Bookkeeping Settings], you can check the following items:

Setting Items	Check Content
Play Info	/
	Total Time On
	Total Coin In
	Total Credit In
	Total Credit Continues
	Total Service Credit
	Total Service Credit Continues
	Total Play
	Single Player Plays
	Multi Player Plays
	Single Player Continue
	Multi Player Continue
Total Average Game Time	1
	Average Game Time Singleplayer
	Average Game Time Multiplayer
Hourly Income	Total Income by Hour
Daily Income	Monday to Sunday
Total	Total Amount of Income
Reset Record/High Score	Reset Record/High Score to 0
Reset Settings	Reset
Back	Back

3.4.3 Credit Settings



1. Enter [Credit Settings], you can set the following items:

Setting Items	Setting Content
Credit Count	0-24
Service Credits	0-24
Clear Credits	Clear Credit to 0
Entry Type	Coin/Card Swipe
Credit Settings	Free Play/ X Coins X Credit
Continue Settings	Same as Credit Settings/ X Coins X Credit
Reset Settings	Reset
Back	Back

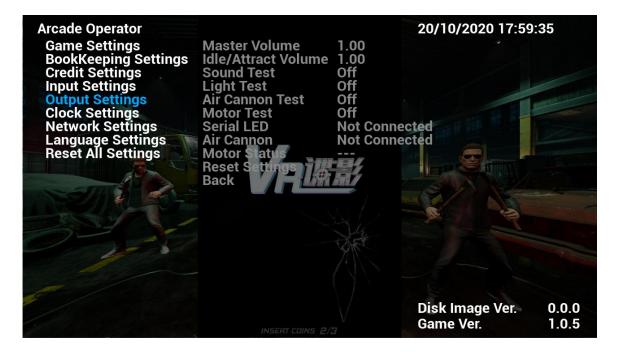
3.4.4 Input Settings



1. Enter [Input Settings], you can set the following items:

Setting Items	Setting Content
Trigger Button	On/Off
Reload Button	On/Off
Start Button	On/Off
Down	On/Off
Option Cycle / Select	On/Off
Test / Exit	On/Off
Back / Service	On/Off
IO Board	Connected/Not Connected
Gun Board	Connected/Not Connected
Reset Settings	Reset
Back	Back

3.4.5 Output Settings



1. Enter [Output Settings], you can set the following items:

Setting Items	Setting Content
Master Volume	0-1
Idle/Attract Volume	0-1
Sound Test	Off/Left/Right/Sub
Light Test	Off/Gun Rack/Gun/ Monitor Side Left/ Monitor Side Right/ Logo
	Left/ Logo Right
Air Cannon Test	On/Off
Motor Test	On/Off
Serial LED	Connected/Not Connected
Air Cannon	Connected/Not Connected
Motor Status	(Alert)/ Top (Alert) / Bottom (Alert)
Reset Settings	Reset
Back	Back

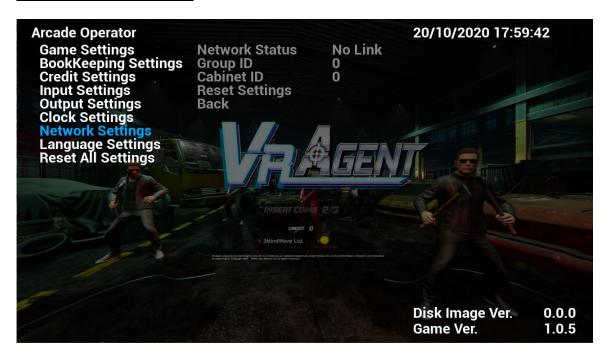
3.4.6 Clock Settings



1. Enter [Clock Settings], you can set the following items:

Setting Items	Setting Content
Year	Year
Month	Month
Date	Date
Hour	Hour
Minute	Minute
Second	Second
Apply	Apply
Back	Back
	PLEASE NOTE: Setting the time or date to the past will require the
	game to restart.

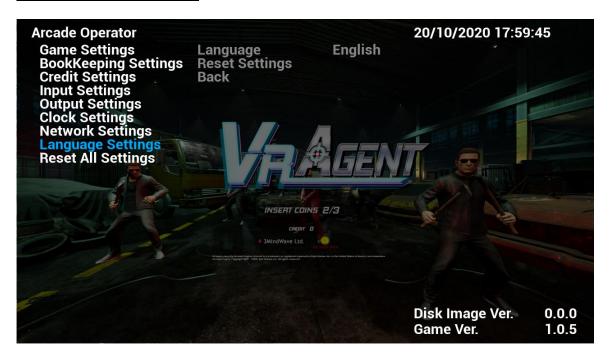
3.4.7 Network Settings



1. Enter [Network Settings], you can set the following items:

Setting Items	Setting Content	
Network Status	Linked/Linked [X] Cabs / No Link	
Group ID	1/2/3/4	
Cabinet ID	1/2/3/4	
	The operator will need to operate the AO button of the cabinet in order to connect to other cabinets (the available cabinet IP(s) will be displayed for connection) and set other group ID(s) and other cabinet ID(s) for the connected cabinets When there is no other cabinet connected, it will be displayed as	
Other Cabinet(s) ID	[]	
Other Group(s) ID	1/2/3/4	
Other Cabinet(s) ID	1/2/3/4	
Reset Settings	Reset	
Back	Back	

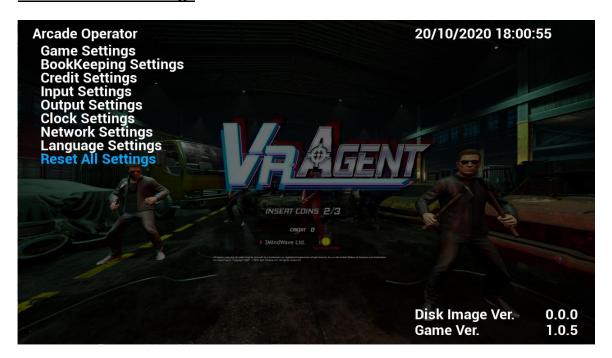
3.4.8 Language Settings



1. Enter [Language Settings], you can set the following items:

Setting Items	Setting Content	
Language	/	
	English	
	简体中文(Simplified Chinese)	
	繁體中文 (Traditional Chinese)	
Reset Settings	Reset	
Back	Back	

3.4.9 Reset All Settings



On the "Reset All Settings" page, you can reset all settings to the factory settings.

1. Select [Reset All Settings] and press the [START] button to restore all the settings in the arcade to the default values. At the same time, all the records in the arcade will be cleared.

4. Warnings and Errors

4.1 VR Aim Controller Warning

• Do not pull the VR Aim Controller.



4.2 PCB Error

• I/O Connection Error



Cabinet ID Error



• VR HMD Connection Error



• Gun Connection Error



5. Maintenance and Service

Maintenance and Service

Even though the machine works normally for a long time, the fault will occur. Therefore, please perform routine check and maintenance concerning the following to ensure a long-term use.

- External Inspection
 - Stick "Warning" stickers correctly, keep it legible.
 - Firmly tighten the bolt for each adjuster.
 - Tighten screws for speaker assembly.
 - Tighten the signboard firmly.
 - Check if the screws fixing the parts loose.
 - Check if the connectors loose or missing.
- Operation Inspection (With power on)
 - Sound is normally emitted from the speakers or not.
 - Fluorescent lamps and LED and button lamps light up or not.
 - Coin acceptor works properly or not.
 - Lifting and falling devices work properly or not.
 - YZ sensor works properly or not.

After completing all the checks, operate the game again and check the above items with full care!

- Servicing (conducted by a technician only)
 - Cut off the main power supply to avoid injury or electric shock when performing maintenance.
 - Please contact our service center when performing any work that is not specified in this Manual, and follow the instruction provided by the service center.
 - For consumables and spare parts (including screws), please use products specified by 3MindWave Limited.
 - Even though the main power is cut off, there is still high temperature and high pressure in the power board and the monitor. The person will be burnt or get an electric shock if he touches such parts. Please pay full attention to avoid contact.
 - Be sure to cut off the main power when you alter a spare part or unplug a connector.

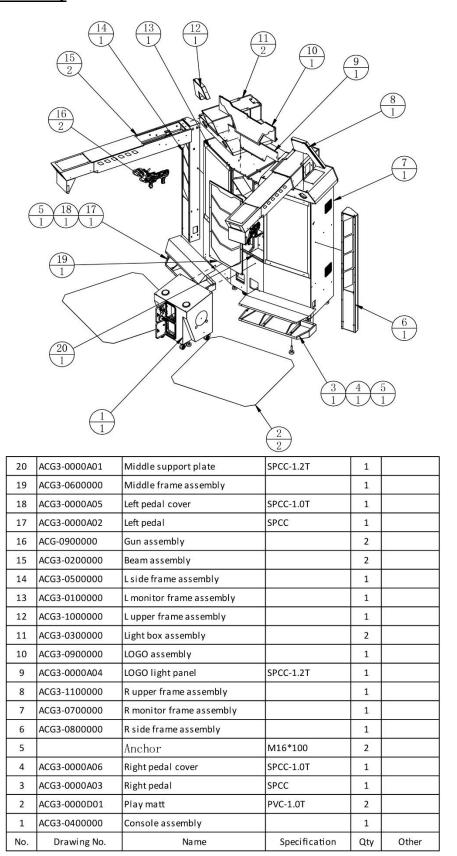
6. Assembly

6.1 Assembly Tree Diagram

ACG3-0000000 Cabinet assembly	ACG3-0100000 L monitor frame assembly	ACG3-0101000 L wooden frame assembly
		ACG3-0102000 Monitor glass assembly
		ACG3-0103000 Monitor assembly
		ACG3-0104000 PC assembly
		ACG3-0105000 PC door assembly
		ACG3-0106000 Monitor door assembly
		ACG3-0107000 Transformer assembly
		ACG3-0108000 AC power box assembly
		ATV-0214000 Fan assembly
		,
	ACG3-0200000 Beam assembly	ACG3-0201000 Motor assembly
		ACG3-0202000 Slide assembly
		ACG3-0203000 Guide wheel assembly
		ACG3-0204000 Disinfection assembly
		ACG3-0205000 Synchronous pulley assembl
	ACG3-0300000 Light box assembly	ACG3-0301000 Light box wooden assembly
	ACG3-0400000 Console assembly	ACG3-0401000 Console frame assembly
	Properties the same read education and education and an education of the same and t	ACG3-0402000 Console panel assembly
		ACG3-0403000 Woofer assembly
		ACG3-0404000 Fan rear assembly
		ACG3-0405000 Service panel assembly
	ACG3-0500000 L side frame assembly	
	ACG3-0600000 Middle frame assembly	
	need vovoov situate iranic assembly	
	ACG3-0700000 R monitor frame assembly	ACG3-0701000 R wooden frame assembly
		ACG3-0102000 Monitor glass assembly
		ACG3-0103000 Monitor assembly
		ACG3-0104000 PC assembly
		ACG3-0105000 PC door assembly
		ACG3-0106000 Monitor door assembly
		ATV-0214000 Fan assembly
	ACG3-0800000 R side frame assembly	
	ACG3-0900000 LOGO assembly	
	ACG3-1000000 L upper frame assembly	
	ACG3-1100000 R upper frame assembly	
	ACG-0900000 Gun assy	

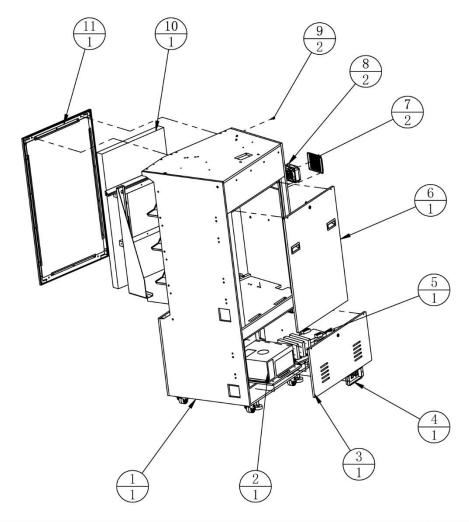
6.2 General Assembly Diagram

6.2.1 Cabinet Assembly



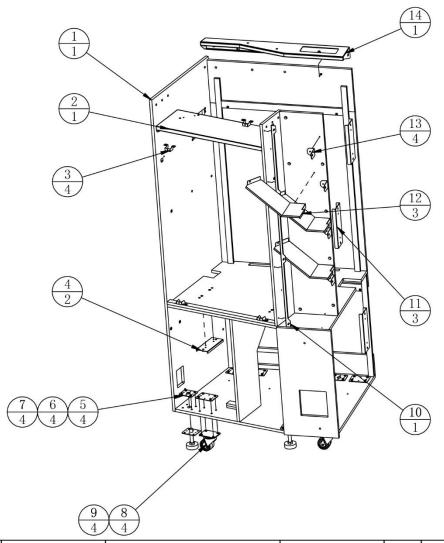
6.3 L Monitor Frame Assembly

6.3 L Monitor Frame Assembly



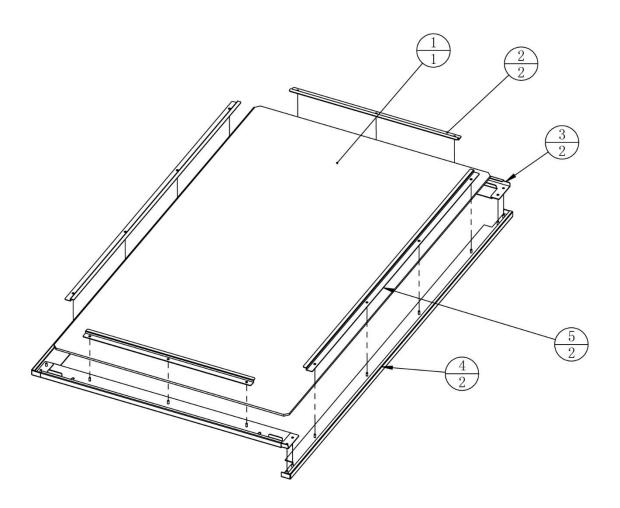
11	ACG3-0102000	Monitor glass assembly		1	
10	ACG3-0103000	Monitor assembly		1	
9	ACG3-0100A01	Side frame fixings	Q235	2	
8	ATV-0214000	Fan assembly		2	
7		Plastic net	253-5460	2	
6	ACG3-0106000	Monitor door assembly		1	
5	ACG3-0107000	Transformer assembly		1	
4	ACG3-0108000	AC power box assembly		1	
3	ACG3-0105000	PC door assembly		1	
2	ACG3-0104000	PC assembly		1	
1	ACG3-0101000	L wooden frame assembly		1	
No.	Drawing No.	Name	Specification	Qty	Other

6.3.1 L Wooden Frame Assembly



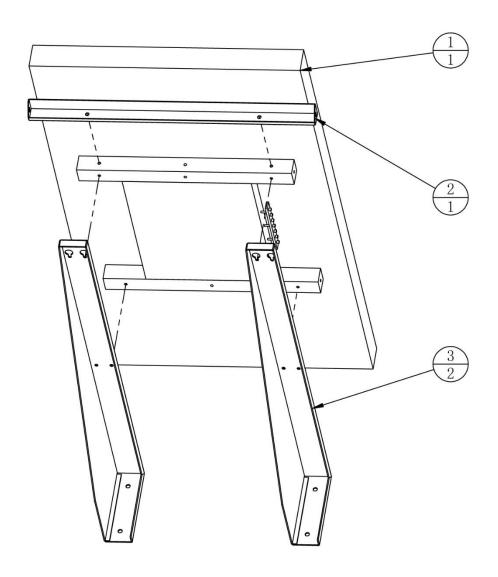
14	ACG3-0101A02	Left reinforcing plate	SECC-2.5T	1	
13	ACG3-0101A08	Frame connecting 2	SECC-1.5T	4	
12	ACG3-0101A03	Middle diaphragm 1	SECC-1.2T	3	
11	ACG3-0101A04	Frame connecting 1	SECC-2.0T	3	
10	ACG3-0101A05	Middle frame plate	SPCC-1.2T	1	
9	ATV-0201A06	Casters fixed iron	SPCC-2.0T	4	
8		Casters	2.5'	4	
7		Anchor	M16*100	4	
6	ATV-0201A07	Anchor plate	SPCC-2.0T	4	
5	ATV-0201A05	Anchor fixing iron	SPCC-2.0T	4	
4	ACG3-0101A01	Monitor reinforcing plate	SPCC-2.0T	2	
3	ACG3-0101A06	Glass frame plate	SPCC-1.2T	4	
2	ACG3-0101A07	Light box support		1	
1	ACG3-0101B01	L wooden frame	MDF	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.3.2 Monitor Glass Assembly



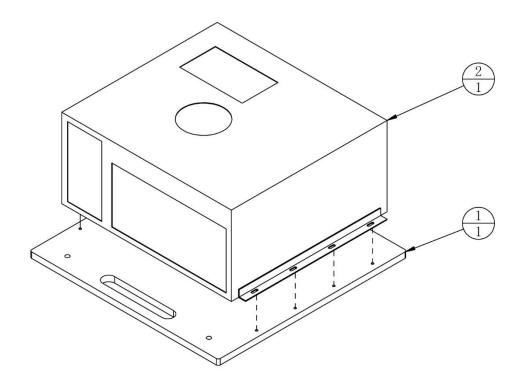
5	ACG3-0102A02	Glass batten 1	SPCC-1.2T	2	
4	ACG3-0102A04	Glass frame 2	SPCC-1.5T	2	
3	ACG3-0102A01	Glass frame 1		2	
2	ACG3-0102A03	Glass batten 2	SPCC-1.2T	2	
1	ACG3-0102C01	Monitor glass	Glass-5.0T	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.3.3 Monitor Assembly



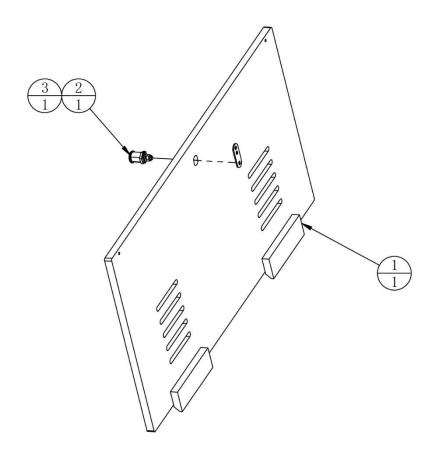
3	ACG3-0103A01	Monitor bracket	SECC-2.5T	2	
2	ACG3-0103A02	Monitor support plate	SPCC-1.5T	1	
1		Monitor	49'	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.3.4 PC Assembly



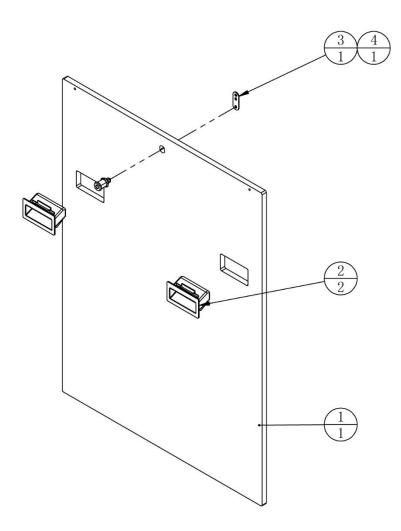
2		PC	IPC-3WM002	1	
1	ACG3-0104B01	PC plate	MDF-15.0T	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.3.5 PC Door Assembly



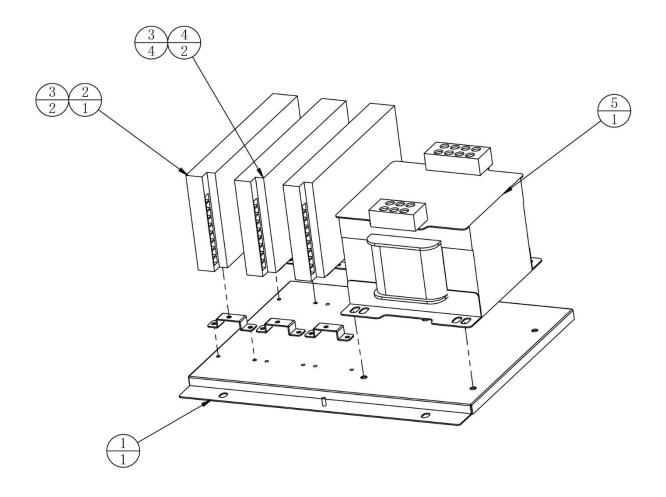
3		Lock plate	5cm	1	
2		Lock	5555-K	1	
1	ACG3-0105B01	PC door	MDF-15.0T	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.3.6 Monitor Door Assembly



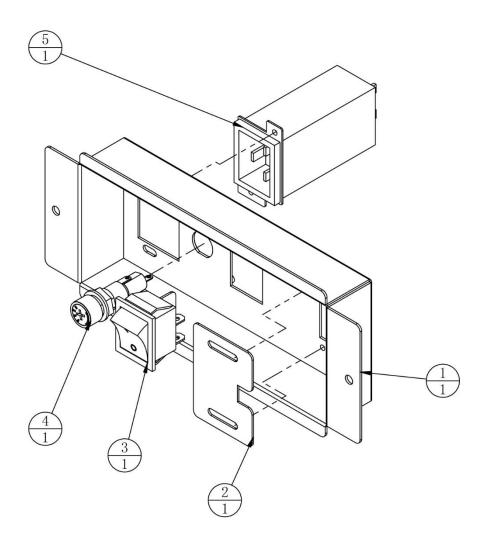
4		Lock	5555-K	1	
3		Lock plate	5cm	1	
2		Clasp		2	
1	ACG3-0106B01	Monitor door	MDF-15.0T	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.3.7 Transformer Assembly



5		Transformer	HL162-18-110	1	
4		Power supply	LRS-150-24	2	
3	ATV-0203A01	Power supply plate	SECC-1.2T	6	
2		Power supply	LRS-350-12	1	
1	ACG3-0107A01	Transformer plate	SECC-1.2T	1	
No.	Drawing No.	Name	Specification	Qty	Other

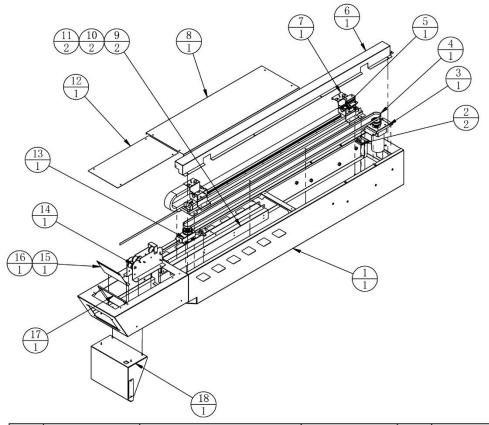
6.3.8 AC Power Box Assembly



5		Filter	YUNPEN YMA20A	1	
4		Fuse cartridge	MF527A	1	
3		Power button	4P KCD7-2211N	1	
2	ATV-0208A02	Cable cover	SPCC-1.0T	1	
1	ACG3-0108A01	AC power box	SPCC-1.2T	1	
No.	Drawing No.	Name	Specification	Qty	Other

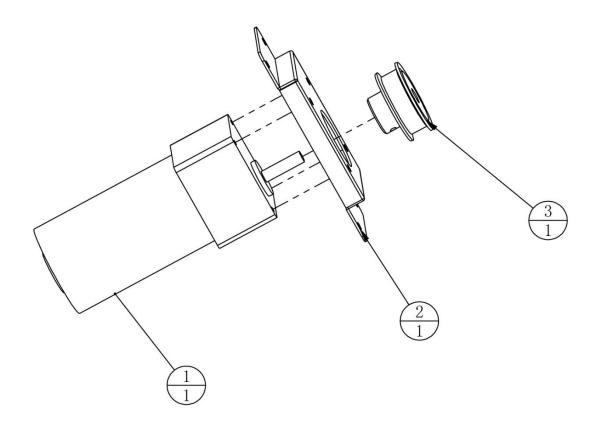
6.4 Beam Assembly

6.4 Beam Assembly



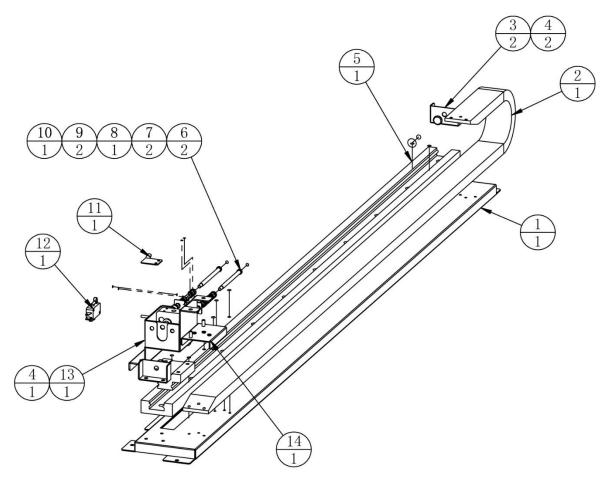
18	ACG3-0204000	Disinfection assembly		1	
17	ACG3-0200D01	Beam end plate	PMMA-5.0T	1	
16		5050 LED	DC 12V RGB 150	1	
15	ACG3-0200A04	Beam end lamp plate	SPCC-1.2T	1	
14	ACG3-0203000	Guide wheel assembly		1	
13	ACG3-0205000	Synchronous pulley assembly		1	
12	ACG3-0200A03	Upper cover 2	SPCC-1.0T	1	
11		5050 LED	DC 12V RGB 650	2	
10	ACG3-0200D02	Beam shading plate	PMMA-3.0T	2	
9	ACG3-0200A07	Beam light panel	SECC-1.2T	2	
8	ACG3-0200A02	Upper cover 1	SPCC-1.0T	1	
7	ACG3-0202000	Slider assembly		1	
6	ACG3-0200A06	Belt cover	SECC-1.0T	1	
5	ACG3-0200A01	Belt retainer	SPCC-1.5T	1	
4		Synchronous belt	S5M-2670-10	1	
3	ACG3-0201000	Motor assembly		1	
2		Sensor	KI1303-AALF	2	
1	ACG3-0200A05	Support frame		1	
No.	Drawing No.	Name	Specification	Qty	Other

6.4.1 Motor Assembly



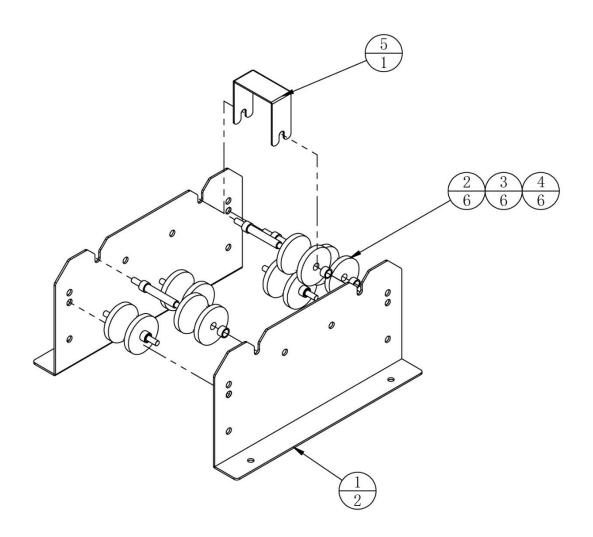
3	ACG3-0201A02	Synchronous pulley 1	5083	1	
2	ACG3-0201A01	Motor plate	SPCC-1.5T	1	
1		Motor	Z2D25-24GN-30s/2GN30K	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.4.2 Slide Assembly



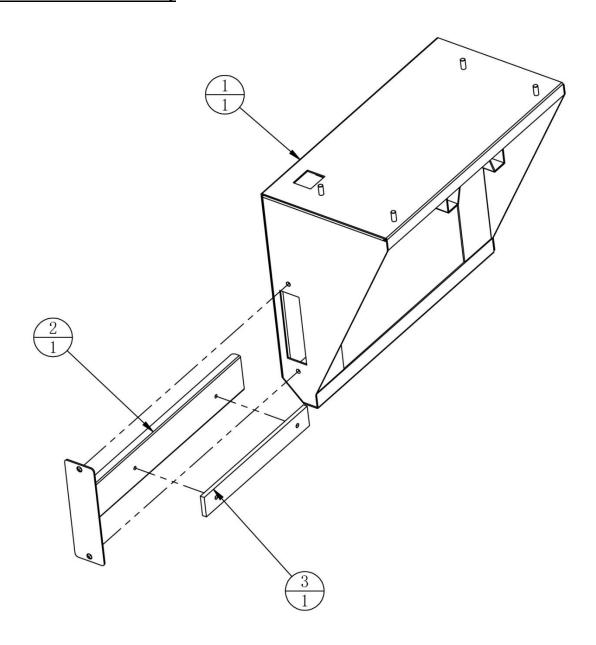
14	ACG3-0202A06	Chain slot plate	SPCC-1.2T	1	
13	ACG3-0202A01	Guide plate		1	
12		Switch	RV-165-1C25(3P)	1	
11	ACG3-0202A05	Switch plate	SPCC-1.0T	1	
10	ACG3-0202A09	Bearing limit plate	SPCC-1.0T	1	
9		Bearing	LM5UU	2	
8	ACG3-0202A03	Guide block	AL	1	
7	ACG3-0202A04	Guide spring	65Mn	2	
6	ACG3-0202A02	Guide rod	Q235	2	
5		Guide	SGR15+SGB15-3 1120	1	
4		Rubber pad	∮8.5*∮6.8*∮14.5*H6mm	3	
3	ACG3-0202A07	Limit plate	SPCC-1.2T	2	
2		Drag chain	10*30/18/1400	1	
1	ACG3-0202A08	Guide rail plate	SPCC-1.2T	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.4.3 Guide Wheel Assembly



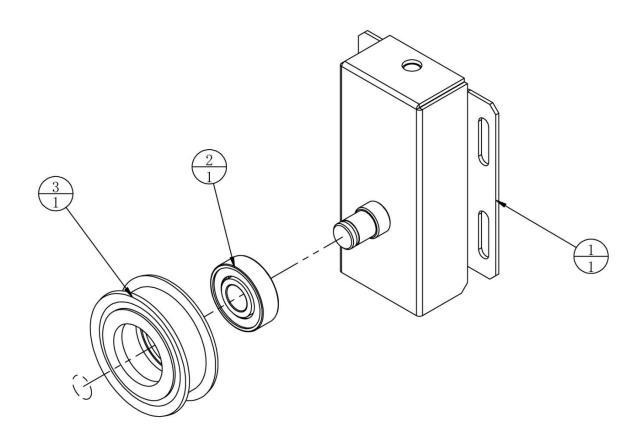
5	ACG3-0203A04	Rope limit plate	SPCC-1.2T	1	
4	ACG3-0203A03	Spacer	Q235	6	
3	ACG3-0203A02	Guide wheel shaft	Q235	6	
2		Pulley	U 1.2'	6	
1	ACG3-0203A01	Guide wheel plate	SPCC-1.5T	2	
No.	Drawing No.	Name	Specification	Qty	Other

6.4.4 Disinfection Assembly



3		Disinfection lamp	GS3535UVCA-M5 UVC	1	
2	ACG3-0204A02	Disinfection lamp plate		1	
1	ACG3-0204A01	Disinfection lamp holder		1	
No.	Drawing No.	Name	Specification	Qty	Other

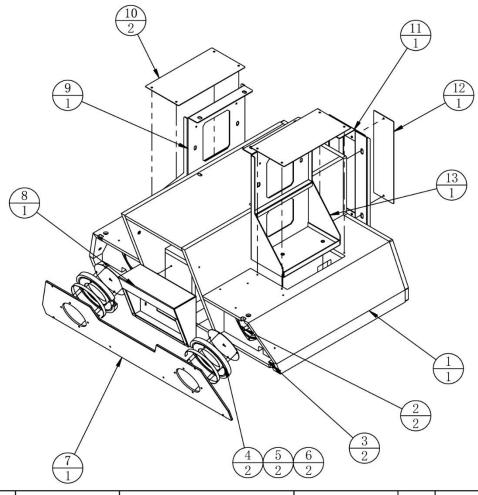
6.4.5 Synchronous Pulley Assembly



3	ACG3-0205A02	Synchronous pulley 2	5083	1	
2		Bearing	6000-2Z	1	
1	ACG3-0205A01	Belt pulley plate		1	
No.	Drawing No.	Name	Specification	Qty	Other

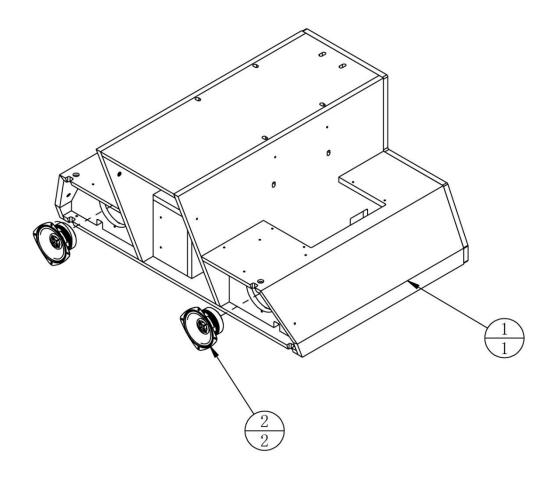
6.5 Light-box Assembly

6.5 Light-box Assembly



13	ACG3-0300A09	Beam side plate 2	SPCC-2.0T	1	
12	ACG3-0300A08	Light box rear cover	SPCC-1.2T	1	
11	ACG3-0300A03	Beam fixing plate	SPCC-2.0T	1	
10	ACG3-0300A05	Light box upper cover	SPCC-1.2T	2	
9	ACG3-0300A04	Beam side plate 1	SPCC-2.0T	1	
8	ACG3-0300A06	Beam support plate	SPCC-2.0T	1	
7	ACG3-0300D01	Speaker cover	PMMA-5.0T	1	
6	ACG3-0300A07	Speaker net		2	
5		5050 LED	DC12V RGB 400	2	
4	ACG3-0300D02	Light guide plate	PMMA-15.0T	2	
3	ACG3-0300A02	Fixing plate 2	SECC-1.2T	2	
2	ACG3-0300A01	Fixing plate 1	SECC-1.2T	2	
1	ACG3-0301000	Light box wooden assembly		1	
No.	Drawing No.	Name	Specification	Qty	Other

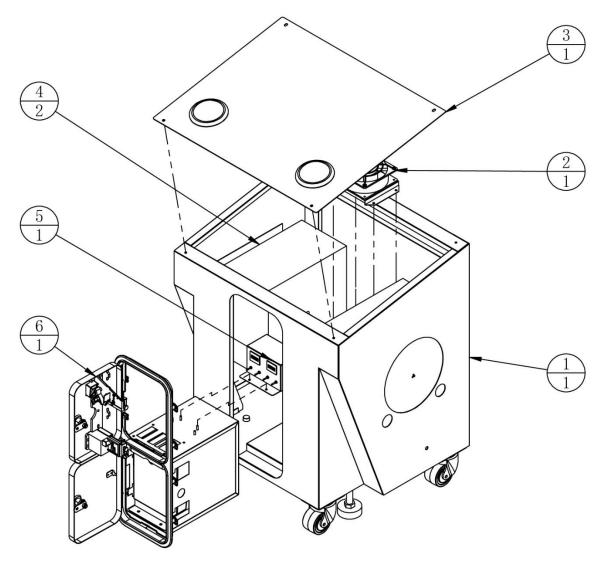
6.5.1 Light-box Wooden Assembly



2		Speaker	4' 4Ω 40W	2	
1	ACG3-0301B01	Light box frame		1	
No.	Drawing No.	Name	Specification	Qty	Other

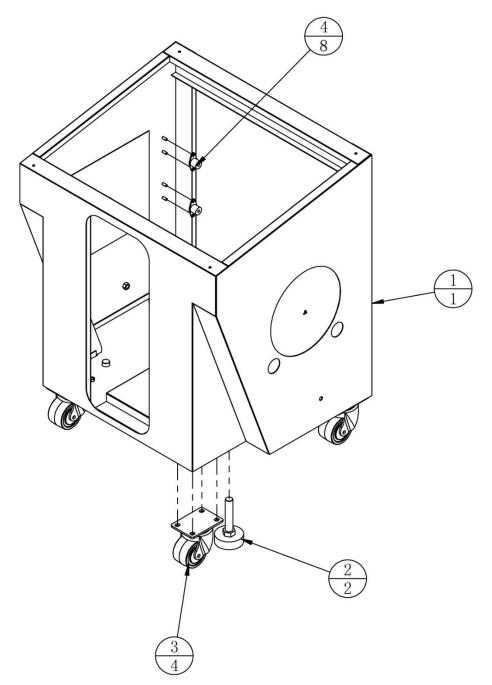
6.6 Console Assembly

6.6 Console Assembly



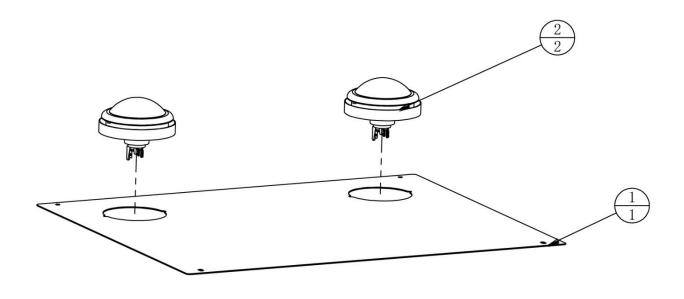
6		Coin door	10429800	1	
5	ACG3-0405000	Service panel assembly		1	
4	ACG3-0403000	Woofer assembly		2	
3	ACG3-0402000	Console panel assembly		1	
2	ACG3-0404000	Fan rear assembly		1	
1	ACG3-0401000	Console frame assembly		1	
No.	Drawing No.	Name	Specification	Qty	Other

6.6.1 Console Frame Assembly



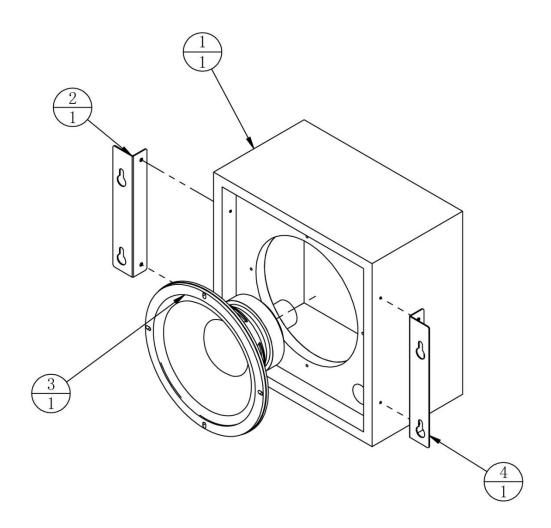
4		Foot base		8	
3		Casters	2.5'	4	
2		Anchor	M16*100	2	
1	ACG3-0401A01	Console		1	
No.	Drawing No.	Name	Specification	Qty	Other

6.6.2 Console Panel Assembly



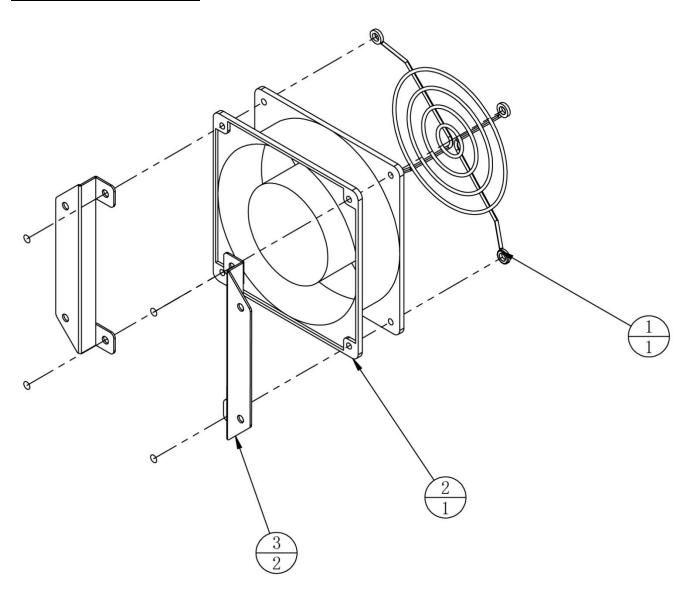
2		Button	∮100-DOME-CW凸	2	
1	ACG3-0402A01	Console cover	SPCC-1.2T	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.6.3 Woofer Assembly



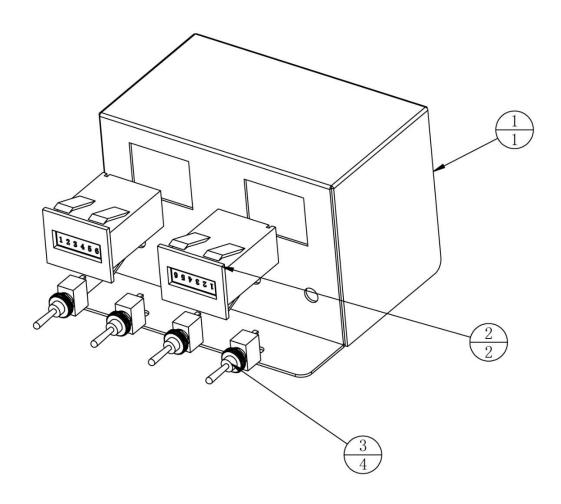
4	ACG3-0403A01	Woofer plate 1	SECC-1.2T	1	
3		Woofer	8吋8Ω/120W	1	
2	ACG3-0403A02	Woofer plate 2	SECC-1.2T	1	
1	ACG3-0403B01	Woofer box	MDF-15.0T	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.6.4 Fan Rear Assembly



3	ACG3-0404A01	Fan plate	SPCC-1.2T	2	
2		Fan	SENSDAR SD12038M2B DC24V 0.35A	1	
1		Fan net	120*120	1	
No.	Drawing No.	Name	Specification	Qty	Other

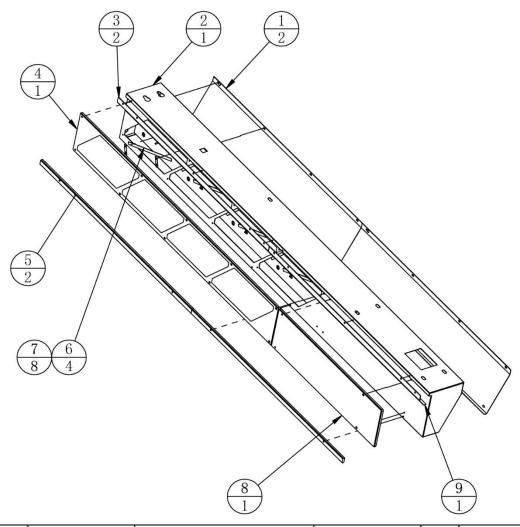
6.6.5 Service Panel Assembly



3		Switch	3P KNX123D	4	
2		Counter	DC 5V	2	
1	ACG3-0405A01	Service panel	SECC-1.2T	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.7 L Side Frame Assembly

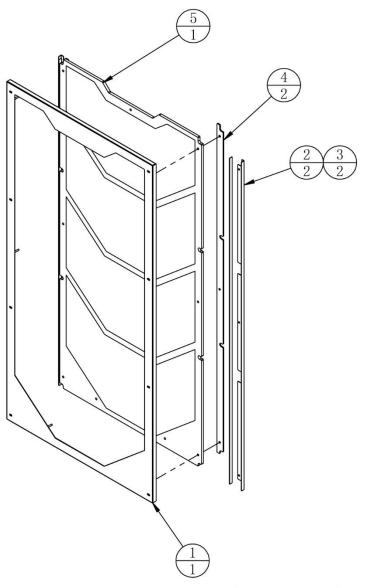
6.7 L Side Frame Assembly



9		5050 LED	SK6812 1800	1	
8	ACG3-0500D03	Lower left trim	PMMA-8.0T	1	
7	ATV-0101D02	LED plate	PVC-0.5T	8	
6		5050 LED	SK6812 250	4	
5	ACG3-0500D01	Side light guide plate	PMMA-8.0T	2	
4	ACG3-0500D02	Upper left trim	PMMA-8.0T	1	
3	ACG3-0500A03	Light cover	SPCC-1.2T	2	
2	ACG3-0500A01	Left side frame	SPCC	1	
1	ACG3-0500A02	Left frame cover	SPCC-1.0T	2	
No.	Drawing No.	Name	Specification	Qty	Other

6.8 Middle Frame Assembly

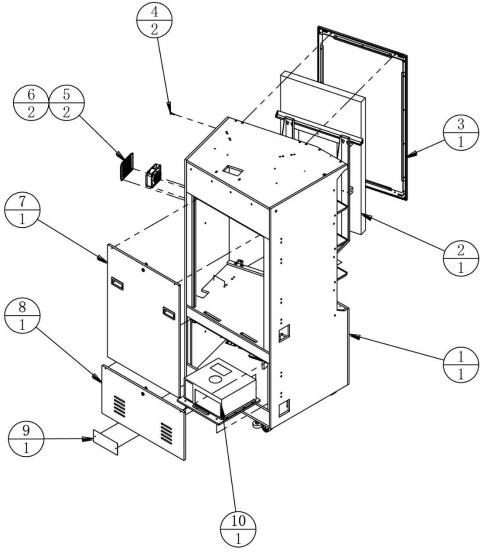
6.8 Middle Frame Assembly



5	ACG3-0600D01	Middle trim panel	PMMA-8.0T	1	
4	ACG3-0600D02	Base plate	PMMA-3.0T	2	
3		5050 LED	SK6812 1200	2	
2	ACG3-0600A02	Middle light plate	SPCC-1.2T	2	
1	ACG3-0600A01	Middle frame	SPCC-1.5T	1	
No.	Drawing No.	Name	Specification	Qty	Other

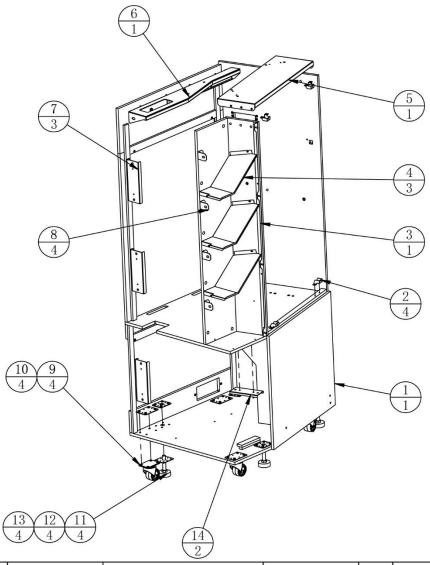
6.9 R Monitor Frame Assembly

6.9 R Monitor Frame Assembly



10	ACG3-0104000	PC assembly		1	
9	ACG3-0700A01	Down cover	SPCC-1.2T	1	
8	ACG3-0105000	PC door assembly		1	
7	ACG3-0106000	Monitor door assembly		1	
6	ATV-0214000	Fan assembly		2	
5		Plastic net	253-5460	2	
4	ACG3-0100A01	Side frame fixings	Q235	2	
3	ACG3-0102000	Monitor glass assembly		1	
2	ACG3-0103000	Monitor assembly		1	
1	ACG3-0701000	R wooden frame assembly		1	
No.	Drawing No.	Name	Specification	Qty	Other

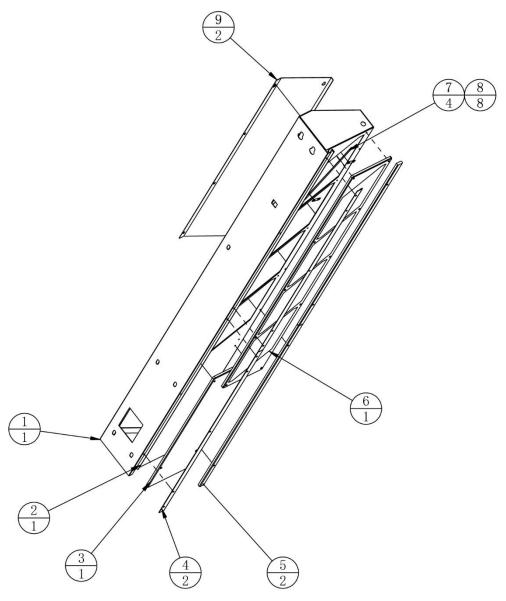
6.9.1 R Wooden Frame Assembly



14	ACG3-0101A01	Monitor reinforcing plate	SPCC-2.0T	2	
13	ATV-0201A05	Anchor fixing iron	SPCC-2.0T	4	
12	ATV-0201A07	Anchor plate	SPCC-2.0T	4	
11		Anchor	M16*100	4	
10	ATV-0201A06	Casters fixed iron	SPCC-2.0T	4	
9		Casters	2.5'	4	
8	ACG3-0701A04	Frame connecting 4	SECC-1.5T	4	
7	ACG3-0701A03	Frame connecting 3	SECC-2.0T	3	
6	ACG3-0701A02	Right reinforcing plate	SECC-2.5T	1	
5	ACG3-0101A07	Light box support		1	
4	ACG3-0701A01	Middle diaphragm 2	SECC-1.2T	3	
3	ACG3-0101A05	Middle frame plate	SPCC-1.2T	1	
2	ACG3-0101A06	Glass frame plate	SPCC-1.2T	4	
1	ACG3-0701B01	R wooden frame	MDF	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.10 R Side Frame Assembly

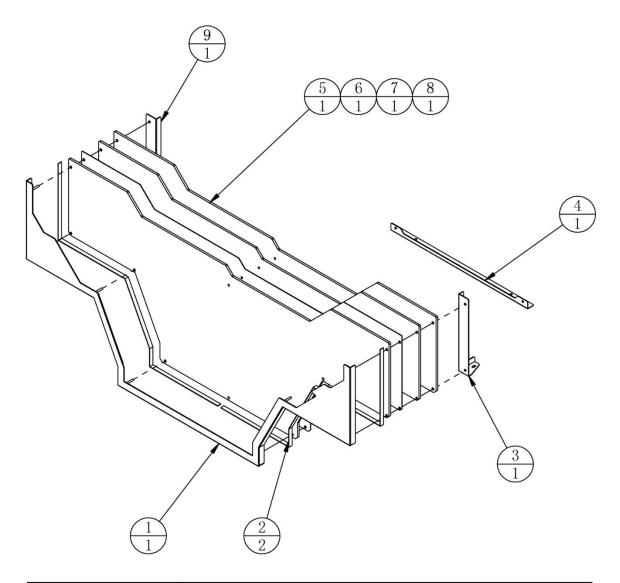
6.10 R Side Frame Assembly



9	ACG3-0800A02	Right frame cover	SPCC-1.0T	2	
8	ATV-0101D02	LED plate	PVC-0.5T	8	
7		5050 LED	SK6812 250	4	
6	ACG3-0800D02	Upper right trim	PMMA-5.0T	1	
5	ACG3-0500D01	Side light guide plate	PMMA-8.0T	2	
4	ACG3-0500A03	Light cover	SPCC-1.2T	2	
3	ACG3-0800D01	Lower right trim	PMMA-5.0T	1	
2		5050 LED	SK6812 1800	1	
1	ACG3-0800A01	Right side frame	SPCC	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.11 LOGO Assembly

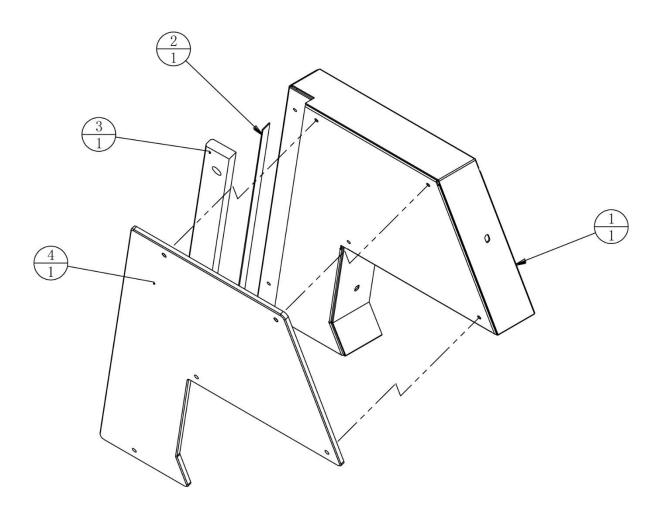
6.11 LOGO Assembly



No.	Drawing No.	Name	Specification	Qty	Other
1	ACG3-0900A01	LOGO frame		1	
2		5050 LED	SK6812 850	2	_
3	ACG3-0900A02	LOGO R support	SPCC-1.5T	1	
4	ACG3-0900A03	LOGO D support	SPCC-1.5T	1	
5	ACG3-0900D04	Background	PMMA-5.0T	1	
6	ACG3-0900D03	LOGO light guide plate	PMMA-8.0T	1	
7	ACG3-0900D02	LOGO printing	PMMA-3.0T	1	
8	ACG3-0900D01	LOGO carving	PMMA-5.0T	1	
9	ACG3-0900A04	LOGO L support	SPCC-1.5T	1	

6.12 L Upper Frame Assembly

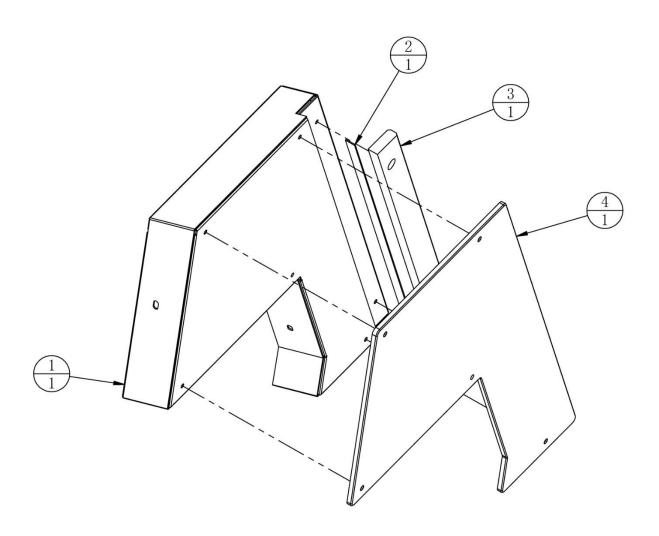
6.12 L Upper Frame Assembly



4	ACG3-1000D02	L top trim	PMMA-5.0T	1	
3	ACG3-1000D01	Upper L light guide	PMMA-10.0T	1	
2		5050 LED	SK6812 450	1	
1	ACG3-1000A01	L upper frame	SPCC	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.13 R Upper Frame Assembly

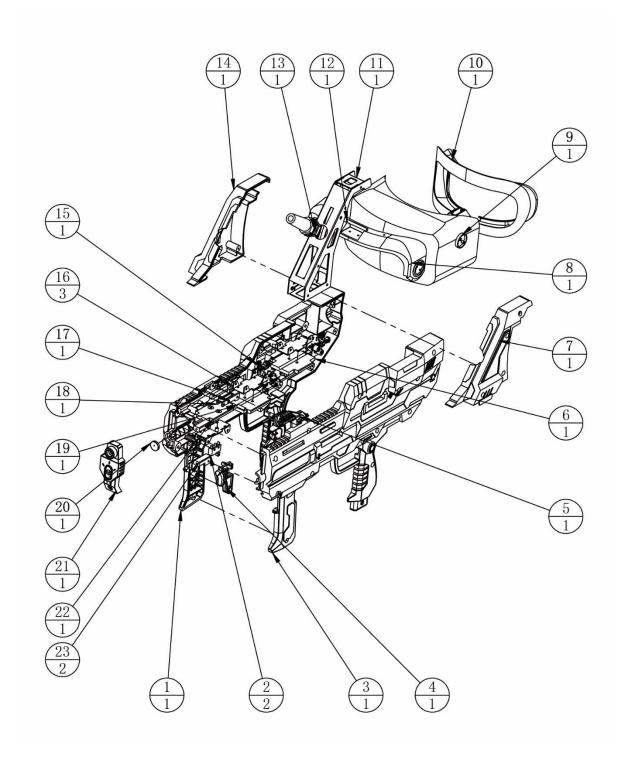
6.13 R Upper Frame Assembly



4	ACG3-1100D02	R top trim	PMMA-5.0T	1	
3	ACG3-1100D01	Upper R light guide	PMMA-10.0T	1	
2		5050 LED	SK6812 450	1	
1	ACG3-1100A01	R upper frame	SPCC	1	
No.	Drawing No.	Name	Specification	Qty	Other

6.14 Gun Assembly

6.14.1 Gun Parts Diagram

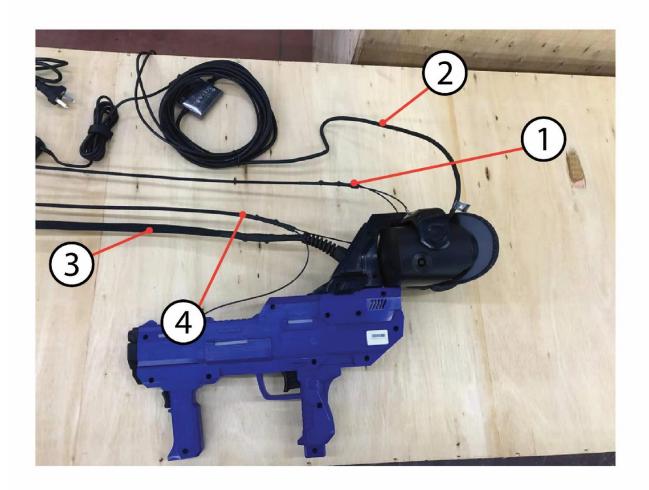


6.14.1 Gun Parts Diagram

Gun Parts Table:

			T		1
23	ACG-0900A01	Sheath block	AL	2	
22	ACG-0900D01	Light guide acrylic 1	PMMA	1	
21	ACG-0900C06	Sheath		1	
20	ACG-0900D04	Sensor acylic	PMMA-3.0T	1	
19	ACG-0900A02	Clamp post 1	SUS304	1	
18	ACG-0900A06	Front holder	SECC-1.0T	1	
17	ACG-0900D02	Light guide acrylic 2	PMMA	1	
16	ACG-0900A03	LED plate	SECC-1.0T	3	
15		GUN Sub	B0-100A	1	
14	ACG-0900C09	Frame cover R	ABS	1	
13		Buckle		1	
12	ACG-0900A05	Clamp post 2	SUS304	1	
11	ACG-0900A04	HMD support frame	SECC-1.2T	1	
10	ACG-0900C12	Patch		1	
9		VR HMD	HP Reverb G2	1	
8	ACG-0900C11	HMD frame	ABS	1	
7	ACG-0900C10	Frame cover L	ABS	1	
6	ACG-0900D03	Light guide acrylic 3	PMMA	1	
5	ACG-0900C08	Shoot trigger	ABS	1	
4	ACG-0900C07	Reload trigger	ABS	1	
3	ACG-0900C02	Gun cover L	ABS	1	
2		Switch	ss-01gl2-e	2	
1	ACG-0900C01	Gun cover R	ABS	1	
No.	Drawing No.	Name	Specification	Qty	Other

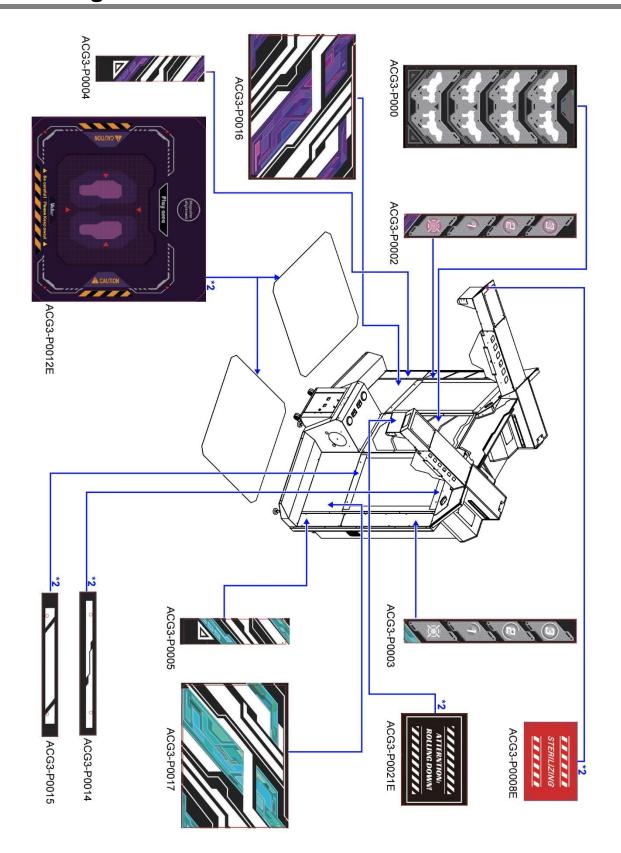
6.14.2 Gun Wires and Cables



4	ACG3-1200G01	Gun assy wire rope 1		1	
3	ACG3-1200L01	Gun control wire		1	
2	ACG3-1200H04-01	VR HMD wire	Reverb G2	1	
1	ACG3-1200G02	Gun assy wire rope 2		1	
No.	Drawing No.	Name	Specification	Qty	Other

7. Printing Pattern

7.1 Printing Pattern of Cabinet



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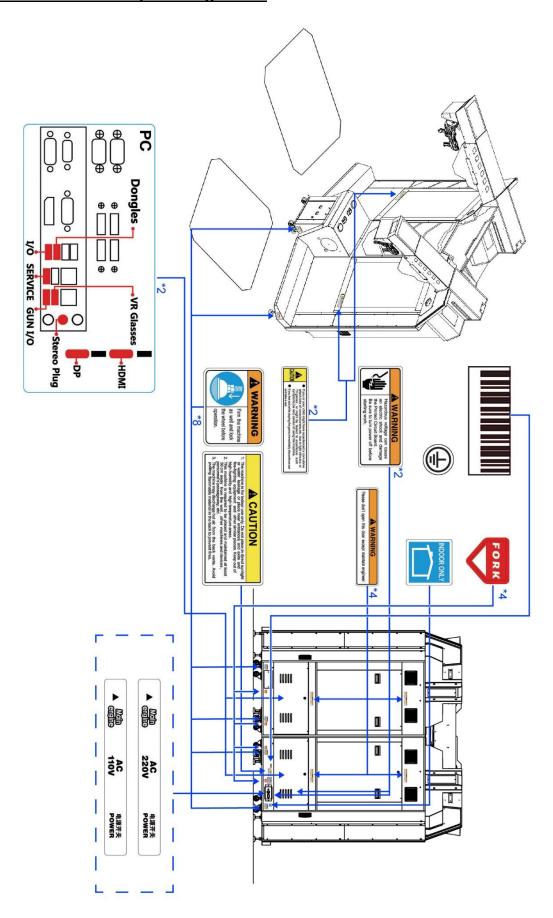
7.2 Caution/Warning Labels

7.2.1 Definition of Private Labels (PL)

PL – Private Label. A private label product is manufactured by a contract or third-party manufacturer and sold under a retailer's brand name. Private label brands are exclusive to a retailer, which can help target a specific audience.

This is in contrast to buying products from other companies with their brand names on them.

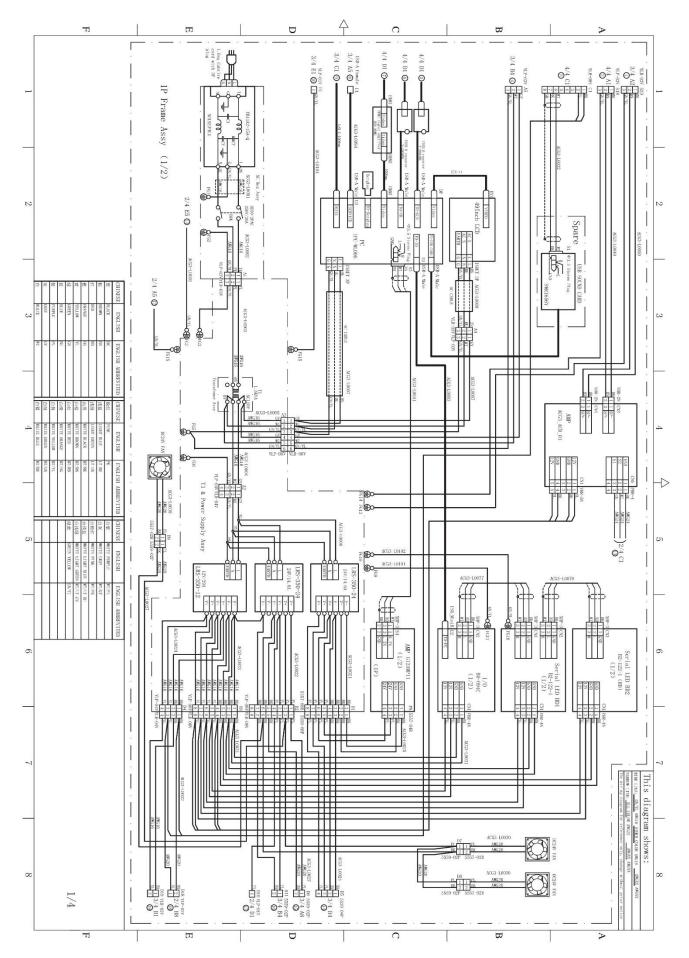
7.2.2 Location of Caution/Warning Labels



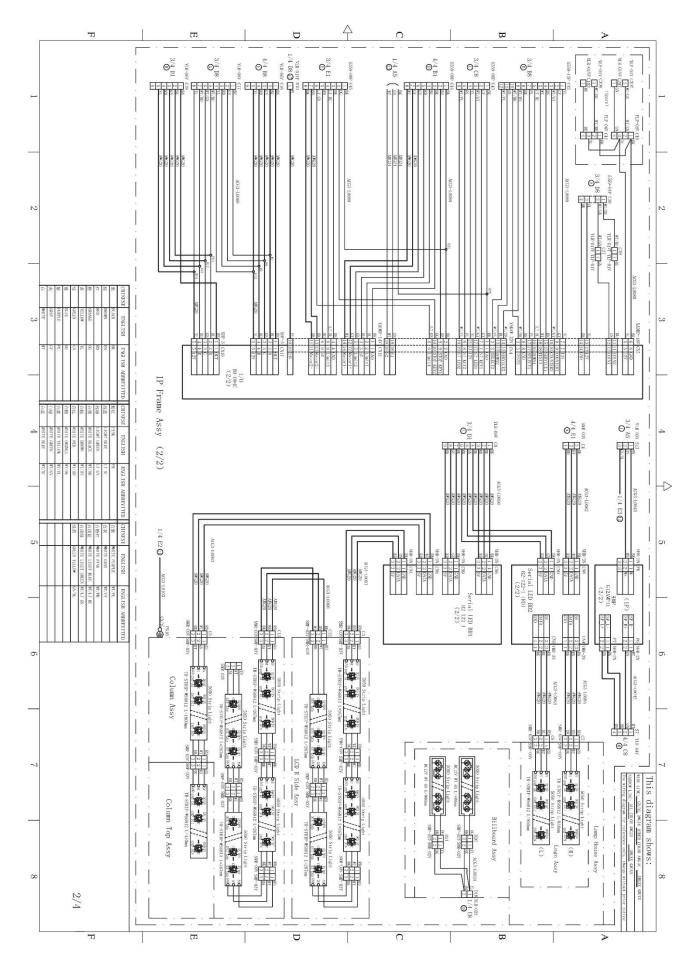
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8. Wiring Diagram

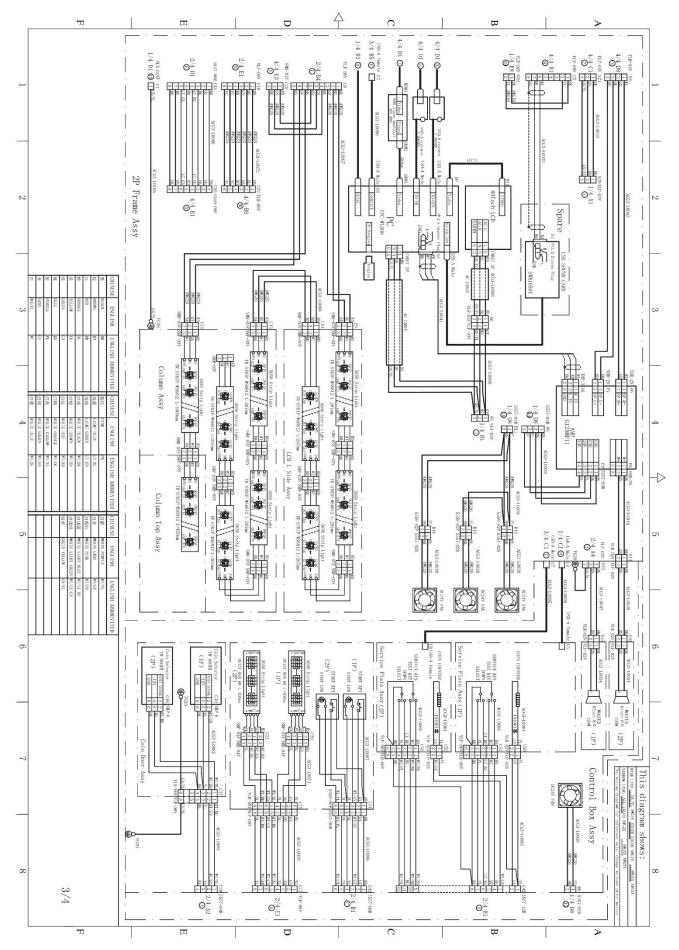
Wiring Diagram 1-4



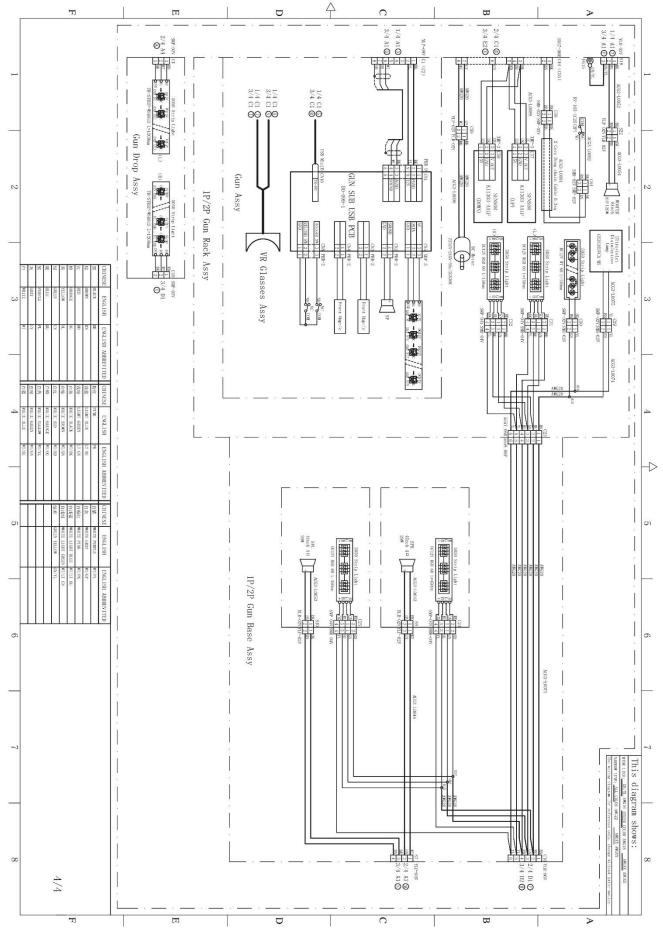
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Main/General: 847-364-9787 Part Sales: 224-265-4287 Technical Support: 224-265-4283





VR AGENT TWIN User Manual

