# "BIG BUG BLASTER!"



## **GAME OPERATION & INSTRUCTION MANUAL**

FOR ALL PARTS, SERVICE, AND TECHNICAL SUPPORT PHONE: 708-598-3720 FAX: 708-598-3720 WWW.FAMILYFUNCOMPANIES.COM

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**"BIG BUG BLASTER" REAR VIEW** 

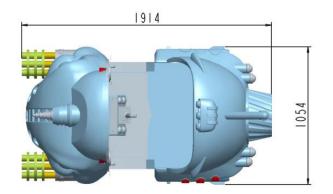
THIS GAME IS INTENDED FOR INDOOR USE ONLY

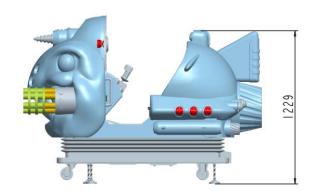
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## 1. SPECIFICATION

(1) Dimension: D 75.35", W 41.50", H 48.39" (D1914mm, W1054mm, H1229mm)





(2) Weight: 397 LBS. (180 KG)

(3) Voltage: AC 110V -120V, 60Hz; or; Euro 220-240V, 50Hz-;

(4) Power: 100W-500W (in operation, based on load, the higher the power required)

Note: Please refer to the nameplate at the back of game for the actual voltage

(5) Environment: (indoor) temperature; 14°F ~ 104°F (-10°C ~ +40°C); humidity ≤90%

Note: Game parameters are subject to change without notice.

## 2. INTRODUCTION

#### 2-1 OVERVIEW

Thank you for purchasing the "BIG BUG BLASTER" video game ride.

This owner's Manual is intended to provide detailed descriptions together with all the necessary information regarding the general operation of electronic assemblies, servicing control, spare parts, etc., pertaining to the game.

This manual is intended for the owner, operator, personnel and managers in charge of operation of the product. Operate the product after carefully reading and sufficiently understanding the instructions. If the product fails to function satisfactorily, non-technical personnel should under no circumstances attempt to service the internal system.

### To Maintain Safety:

To ensure the safe usage of the product, be sure to read the following before using the product. The following instructions are intended for the users, operators and the personnel in charge of the operation of the product. After carefully reading and sufficiently understanding the warning display and cautions, handle the product appropriately. Be sure to keep this operation manual nearby the product or elsewhere convenient for referring to it when necessary.

For the safe usage of the product, the following pictographs are used:

**^** 

Indicates: "HANDLE WITH CARE". In order to protect the human body and equipment, this display is attached to places where the instruction manual should be referred to.

Indicates: a "PROTECTIVE EARTH TERMINAL". Before operating the equipment, be sure to connect it to the ground. (The step may be omitted for products in which a power cable with earth is used.)

- Be sure to understand the contents of the displays before operating the equipment or reading the text.
  - **DANGER** Indicates that mishandling the product by disregarding this pictograph may cause severe injury or even death.
  - MARNING Indicates that mishandling the product by disregarding this warning may cause a potentially hazardous situation which can result in death or serious injury.
  - ⚠ CAUTION Indicates that mishandling the product by disregarding this caution may cause a slight hazardous situation which can result in personal injury and/or material damage.

#### 2-2 IMPORTANT SAFETY INFORMATION

- Unplug the game from the AC wall receptacle when servicing this product. Failure to do so could result in serious injury to yourself or others.
- Use only a GROUNDED AC receptacle. Failure to do so could result in improper operation or damage to the game and could void your warranty. If you are unsure that your AC receptacle is properly grounded, have a qualified electrician perform this check for you.
- ◆ Always be sure power to the game is turned off when doing even routine maintenance otherwise, moving parts could activate unexpectedly causing injury.
- This product is heavy, necessitated by the design. When moving this game, be sure you have adequate help. Use a suitable dolly or hand truck where practical.

#### **2-3 SET UP**

- ⇒ Be sure that the game is on a level surface. If the game is rocking unevenly on the floor adjust the legs to remove the rocking of the game.
- ⇒ Be sure to plug the game into the proper A.C. GROUNDED receptacle. Do not use long extension cords unless absolutely necessary and if so, be sure it is a heavy duty cord of at least 16 Ga. and no longer than 20 ft. Check the label on the back of the game to make sure the power requirements of the game match that of your location.
- Turn the game on and check to be sure there are no unusual sounds and that everything appears to be working correctly

## 3. PACKAGE CONTENTS

Be sure to check that you have received all packages indicated below.

#### Game Unit

#### Accessories

No.	Name	Specification	Picture	Qty.	Remark
1	Manual			1	English version
2	Key	GUO711		2	Ticket/DBV door、coin door、 coin box、monitor/PC service door
3	Power cord	UL/CE Version		1	Per request
4	Fuse	10A		1	10A For 110V ;
4	ruse	6.3A		1	6.3A For 220V

### 4. INSTALLATION

Check the parts list before installation. Verify that all parts that have been received and are in good condition

For indoor use only!

#### **4-1 LOCATIONS TO AVOID**



The machine is designed for indoor use only. Never install this machine outdoors or in any of the following:

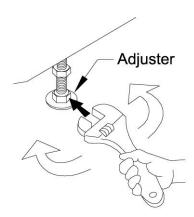
- Locations exposed to direct sunlight
- Locations subject to rain or water leakage.
- Unstable locations or locations subject to vibration.
- Dusty, hot, or damp locations.

#### 4-2 INSTALLING ON SITE

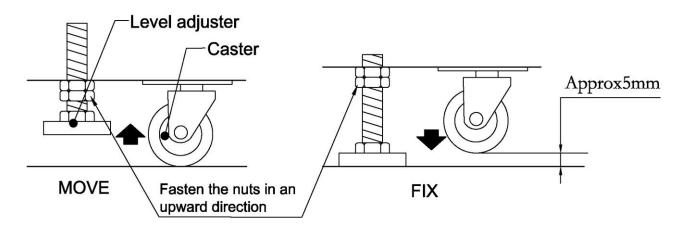
The machine must be fixed on level ground. The product is equipped with 4 casters and 4 adjusters. When installation position /site has been determined, have the adjusters come in direct contact with the floor.

Establish a gap of about 5 mm between the floor and the casters and adjust the unit so that it will remain level.

- 1) Move the product to the installation site.
- 2 Bring the adjusters into direct contact with the floor. Use a wrench to align the height of the adjusters until the cabinet is perfectly level.



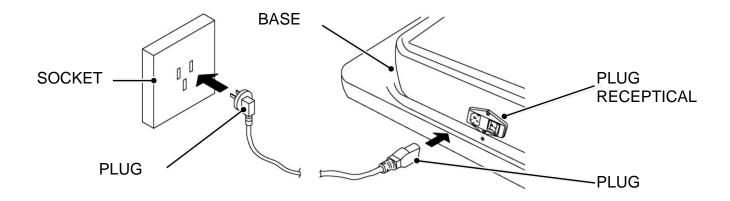
3 After setting, turn adjuster nuts upwards to tighten them and secure adjuster heights.



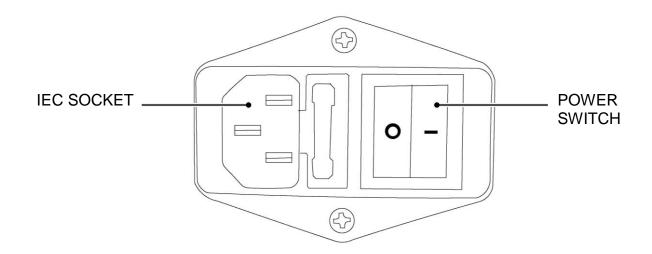
#### **WARNING**

- Disconnect game power before moving.
- Make sure all wheels are intact. Replace any wheels that are damaged or broken before moving the game.
- When moving the game, <u>DO NOT</u> slide the game across the floor.
- Ensure the game is level before connecting the power.
- To insure a long life of your product we recommend always wrapping the game with soft blankets for moving long distance to protect the finish.

## 5. CONNECTING THE POWER CORD

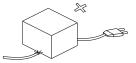


#### **5-1 PLUG RECEPTICAL**



### **WARNING**

• Do not put heavy items on power cord.



• Hold the power plug instead of the wire to draw the power cord out of the socket.



• Do not touch the power plug with wet hands.



• Do not draw or twist the cord or store near any high heat source.

• Do not place the cord where the player can easily trip over, or come in contact with it.



• Operate this game with the correct power and fuse configuration.

## 6. PARTS DESCRIPTION

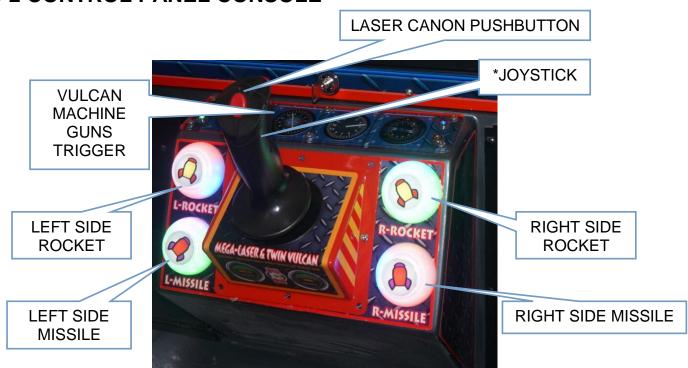
#### 6-1 GAME APPEARANCE AND FEATURES



- 1. BASE FRAME: Mechanical base below motion cabinet body.
- 2. SAFETY SKIRT: Keeps hands and feet away from the cabinet body base mechanism in order to protect players. Fiber Reinforced Plastic attaches between cabinet body and base.
- 3. "BIG BUG BLASTER" Fiberglass body.

- 4. MONITOR FRAME PC and I/O ACCESS: Opens from the bottom by unlocking using key #711. Inside, the main PC, I/O and other components are located for easy access.
- 5. TICKET MECH and OPTIONAL DBV DOOR: With lock C582, this door opens using key #711. Inside, the Entropy ticket mechanism and ticket bin are located (when installed) or the service area and electrical connection for the optional bill acceptor is found just inside the door.
- 6. LED LIGHTED AUDIO SPEAKERS (2)
- **7. COIN MECHANISM and COIN VAULT DOOR:** With lock C582, opens by key #711.
- 8. LOCKING COIN BOX (INSIDE): With lock C582, opens by key #711
- **9. CONTROL PANEL CONSOLE:** Player's control panel- all game play functions, joystick and pushbuttons.

#### 6-2 CONTROL PANEL CONSOLE



\*JOYSTICK: Controls the flight direction of "Big Bug Blaster". Also features the top pushbutton for firing the Laser Canon and pulling the trigger activates the twin Vulcan machine guns.

#### **6-2 TICKET MECHANISM (ENTROPY)**

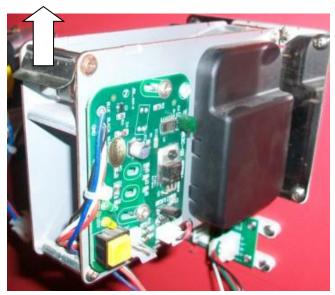
### **⚠** NOTE

For Ticket version only!

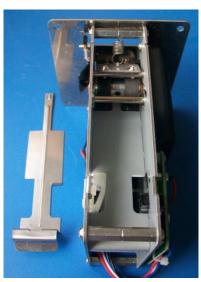
#### How to install the tickets;

Open the Ticket Door, place the Tickets into the TICKET HOLDER. Feed the Tickets into the TICKET MECH.

(1) Unclip and remove the Ticket retainer



Picture 1



Picture 2

Feed the tickets into the mechanism making sure that the ticket passes through the sensor.





Replace the ticket retainer to secure tickets into position.

Press the square YELLOW TEST button on the PCB at the side of the mechanism to draw tickets through the mechanism and out of the ticket door.

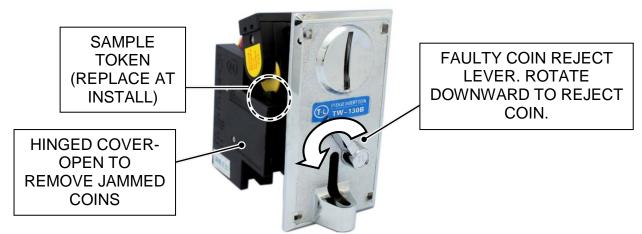
Close the Ticket Door, tear off any excess tickets.





6-4 ELECTRONIC COIN MECH TW-130B

When coin selector rejects a coin, rotate the coin reject lever as picture, coin will reject. If coin does not reject, open the coin selector from inside to take out the faulty coin.



- ◆ Take out the plastic coin from coin slot, displace the proper coin
- ◆ Hinged Cover: Prevent coin blocked and convenient cleaning.
- **♦ Coin diameter:** 20mm∼30mm
- ♦ Coin thickness: 1.7mm  $\sim$ 2.4mm
- ◆ Coin signal output: O.C
- **♦** Wire connection:
  - 1、Grey and \_\_\_\_\_ Red -DC+12V 2、White -COIN signal

**Code chart** 

- 3、Black Ground
- 4、Grey

Note: Information subject to changes without notification.

### 6-6 HOST PC and I/O LOCATION ACCESS;

Host PC and I/O's position is behind the game monitor;

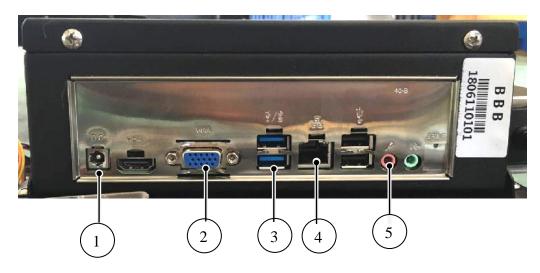


Open the monitor frame using key #711, Monitor will automatically raise up slowly by gas spring. Inside, you will find the Main PC and I/O as well as other components.





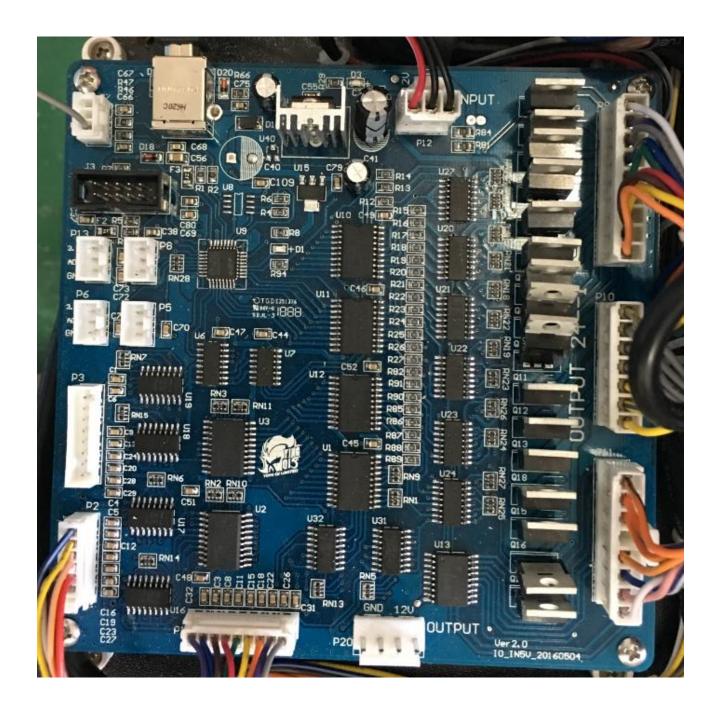
#### HOST COMPUTER- BACK PANEL



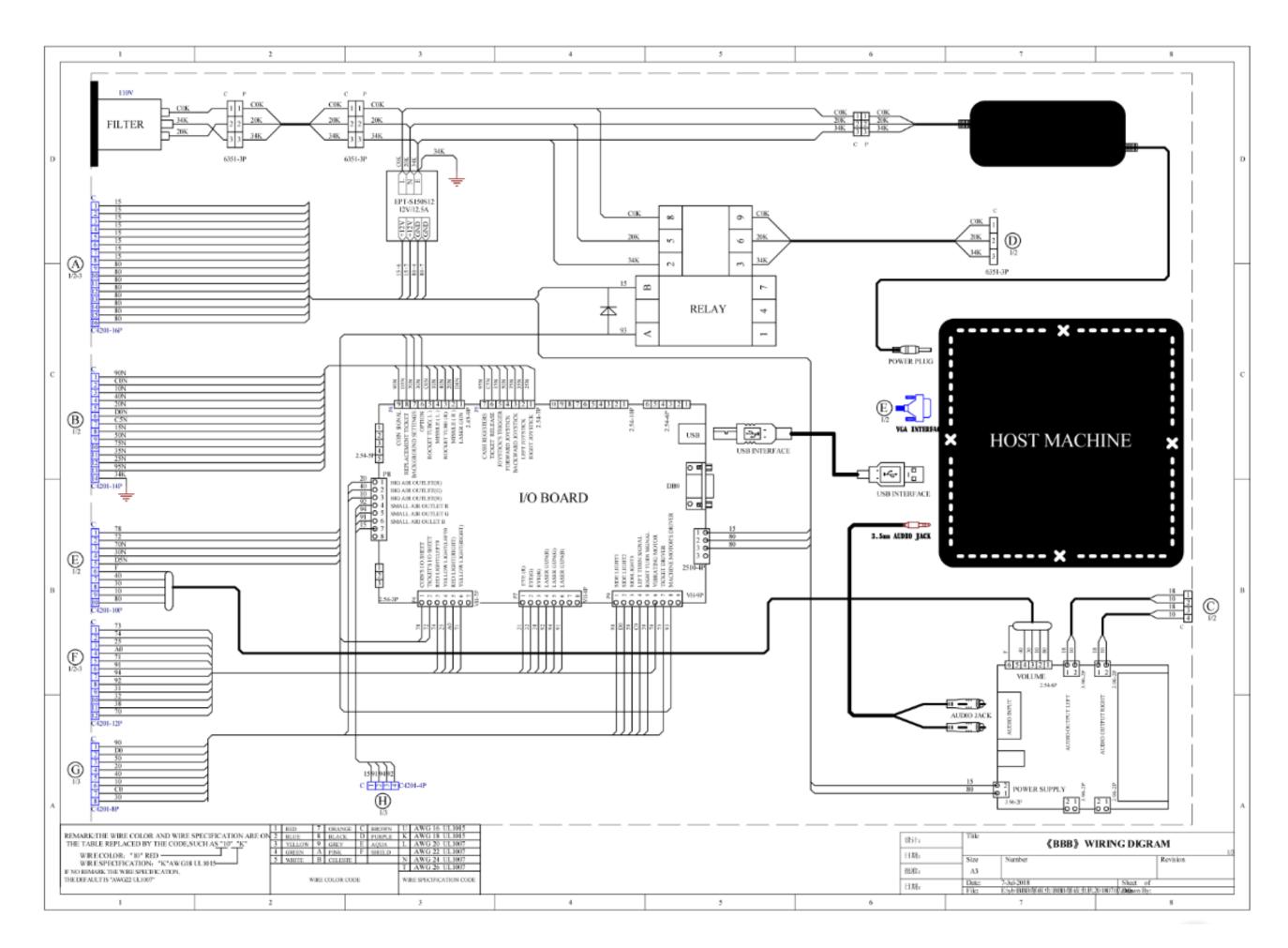
- 1 POWER INLET
- 2 VGA
- 3 USB
- **4 NETWORK CONNECTION**
- 5 USB (4)
- **5 AUDIO CONNECTION**

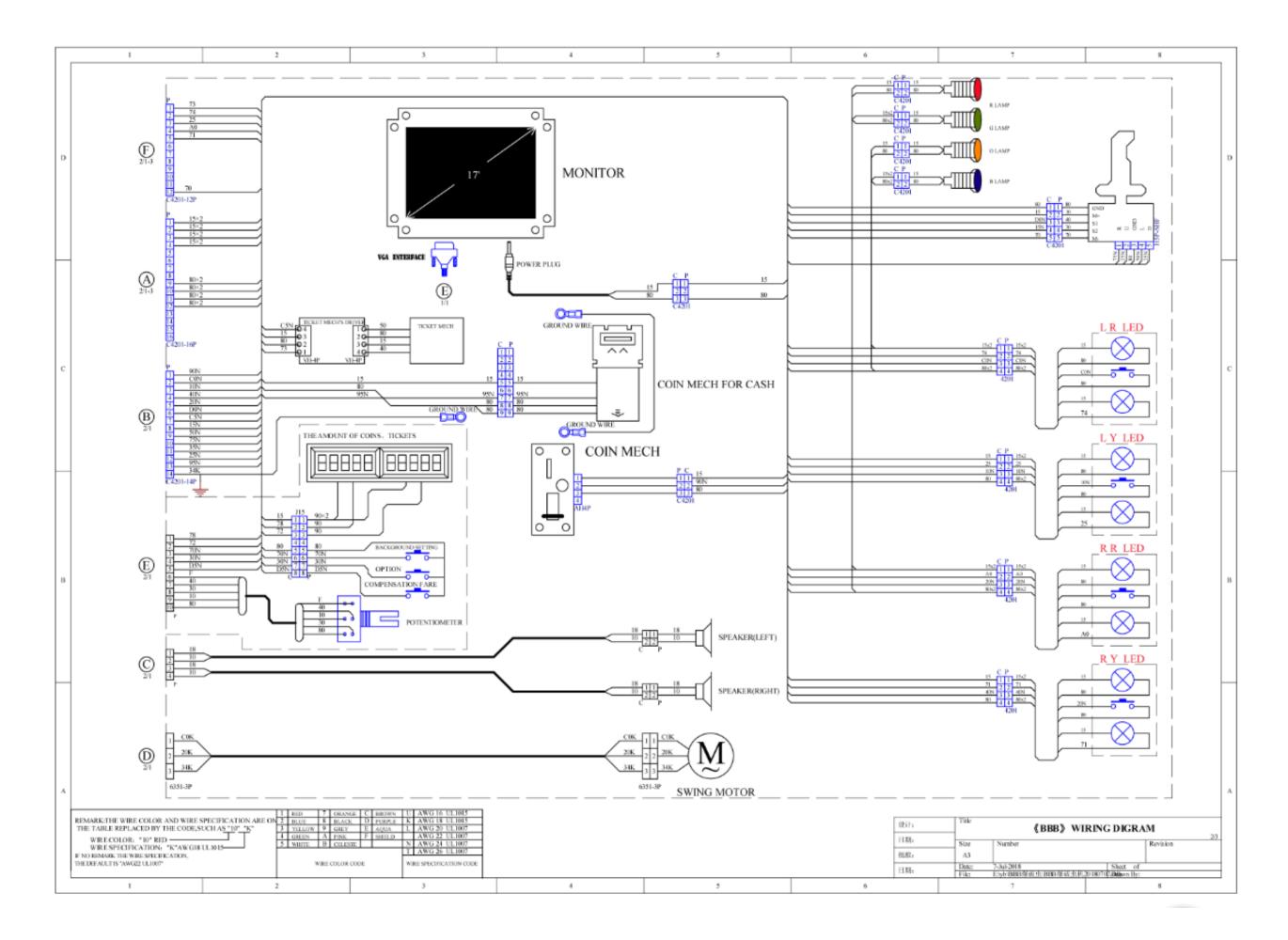
## 7. CONTROL SIGNAL AND INSTRUCTION

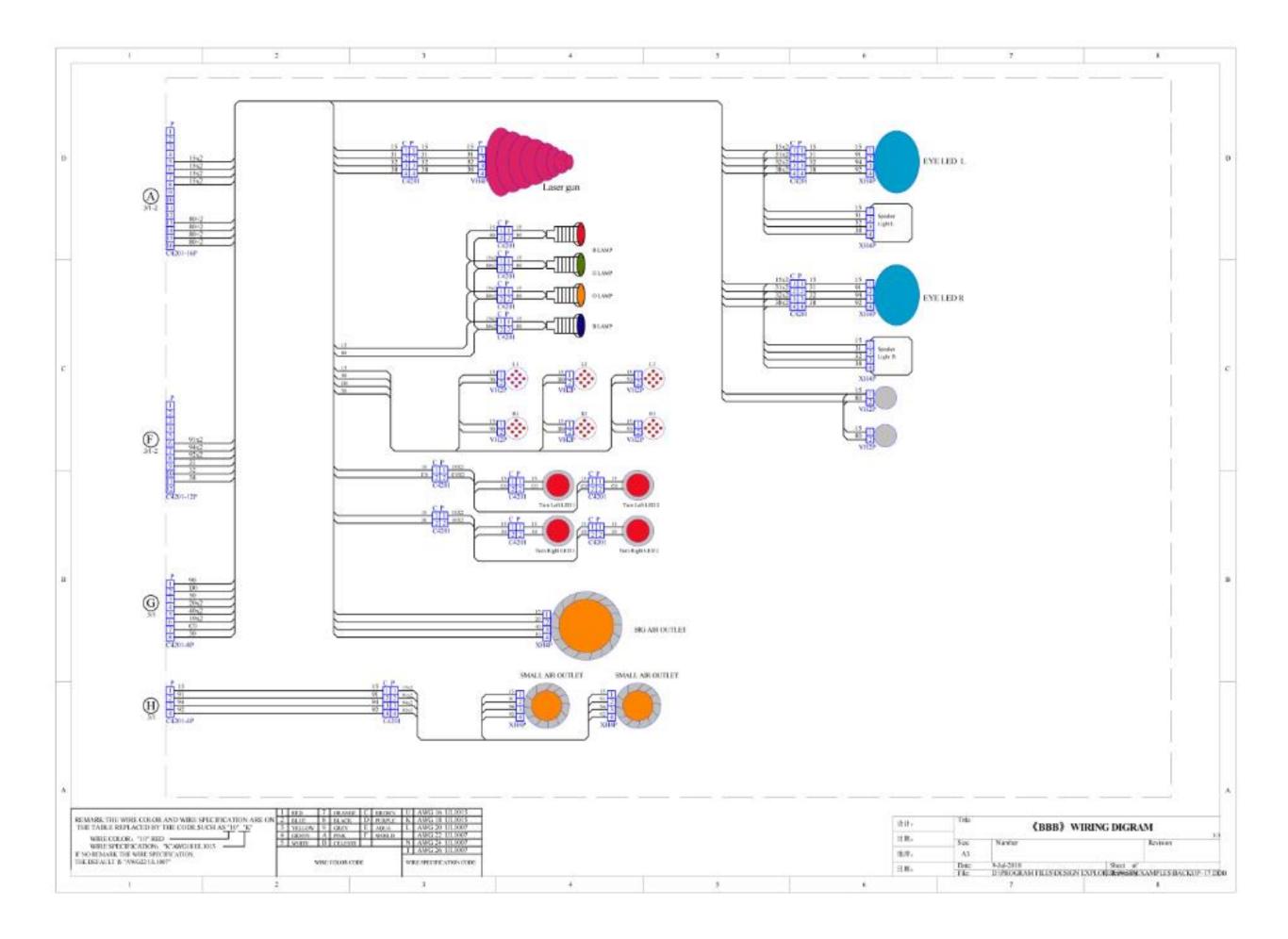
#### 7-1 PCB LAYOUT



Wiring diagram follows on the next page;







#### 7-2 HOW TO ENTER INTO MENUS

Open the coin door and you will see the Setting/Meter Panel at the top of coin box;



To enter the Menu state on screen (ONLY during non-game play)- Press: "MENU" inside the door on this Setting/Meter panel, then you will see the information screen as below.

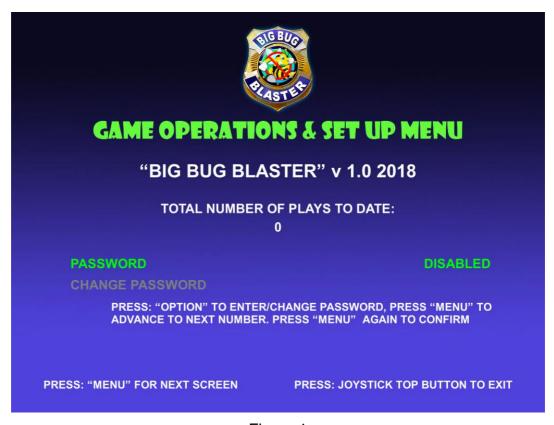


Figure 1

PRESS: "MENU" to advance through each setting. Then, "MENU" again for next screen.



Figure 2

Press: "MENU" To advance through each setting. Press; "OPTION", to select and then choose; "YES or NO" to change. Pressing "MENU" again confirms the option and advances to next line. Press; "MENU" following last selection to advance to the next screen.

Press the joystick top button to exit and return to normal game play at any time.

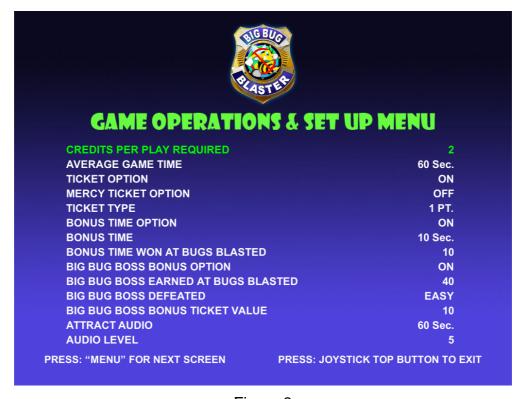


Figure 3

Press "OPTION" to modify parameter value, press; "MENU" to Select the next option:

	1
CREDITS PER PLAY REQUIRED	18
AVERAGE GAME TIME	30 Sec180 Sec
TICKET OPTION	ON/OFF
MERCY TICKET OPTION	08
TICKET TYPE	1PT/ 2PT
BONUS TIME OPTION	ON/OFF
BONUS TIME	5 Sec30 Sec
BONUS TIME WON AT BUGS BLASTED	540
BIG BUG BOSS BONUS OPTION	ON/OFF
BIG BUG BOSS EARNED AT BUGS BLASTED	1560
BIG BUG BOSS DEFEATED	EASY-HARD-HARDEST
BIG BUG BOSS BONUS TICKET VALUE	540
ATTRACT AUDIO	OFF/ 20——100
AUDIO LEVEL	110

Press the joystick top button to exit and return to normal game play at any time.

Press "OPTION" to Select the desired ticket payout level option .



Figure 4

Figure 5 is the screen of "GAME TEST FUNCTIONS"



Figure 5

TEST SCREEN NOTE! - Press the joystick top button to exit and return to normal game play at any time <u>EXCEPT</u> in this test screen MENU since the top joystick button is also within the test functions. To exit the TEST screen, advance through the MENU list and enter the next page where you can exit the screen normally.

## 8. INSTRUCTION OF GAME PLAY



## 1.Game on screen interaction;



## 2. Game play START;

1. Insert Credits required to start game play;



2. Use the Joystick to move left, right, and forward. Press Joystick button to use Laser Canon



3. Pull the Joystick trigger to firs the twin Vulcan machine guns. Use the control panel buttons to launch rockets and missiles;



4. Blast big bugs as you fly through the city. By blasting (operator adjustable) levels of bugs, you can earn bonus time and points towards tickets (when enabled).



5. Blasting an operator adjustable number of bugs, the player can earn the chance to battle the "BIG BUG BOSS" level;



6. At "BIG BUG BOSS" level of play, the player is awarded 20 seconds of additional play time and an operator adjustable "BIG BUG BOSS" ticket award for beating the "BIG BUG BOSS:



7. Following the defeat of the "BIG BUG BOSS", tickets are awarded (when enabled) and the GAME OVER sequence follows. Game over.



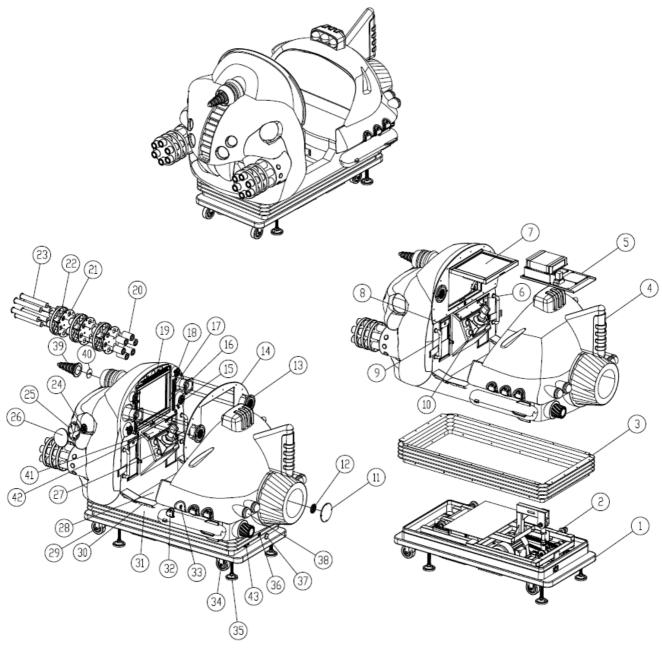
## 9. GENERAL TROUBLESHOOTING

Symptom	Possible Problem	Solution
	POWER	POWER
Sound Problems	Low Volume	Check Volume Control and adjust as
-No sound		necessary
-Low Sound	Faulty speaker harnessing	Check connections and/or repair
-Intermittent		harnessing
Sound	Faulty speaker	Check and/or replace speaker
	Faulty sound board or sound board	Check connections or Replace Sound
	harnessing	Board
	Faulty Main P.C. Board	Check and/or repair or replace Main P.C.
		Board
Game does not take	Coin switch out of adjustment	Re-form coin switch wire
or credit money	Coin mech dirty or improperly adjusted	Clean and adjust mech as necessary
correctly	Faulty Coin switch	Check and/or replace switch
	Faulty coin switch harness or connector	Check and/or repair harnessing
	Game improperly programmed	Check programming options and adjust
	Faulty Main P.C. Board or component	Repair and/or replace Main P.C. board

Ticket Dispenser	No tickets in the game	Refill ticket dispenser
_	C	-
not working	Tickets jammed in dispenser	Clear ticket jam
properly, or no	Ticket dispenser sensor blocked with	Clean off sensor
tickets being	debris	
dispensed	Poor connection on the ticket dispenser	Check and/or replace connectors
	Game improperly programmed	Check ticket programming options
	Faulty ticket dispenser	Replace dispenser
	Faulty ticket dispenser harnessing	Check and/or repair harnessing
	Faulty Main P.C. Board	Replace or repair Main P.C. Board
LED Light fail	Poor contact of terminal	Correct the connection
	LED light is burned out.	Replace the broken LED light with new
	No voltage output form power box	one.
		Replace with new power box
Game will not	Game power off	Check on/off switch and power cord
start.	Electrical Power Switch Open	Close Electrical Power Switch
	Main fuse blown	Check and/or replace fuse as necessary
	Power Supply problem or failure	Check Power Supply output and
		connections
	Faulty P.C. board or component	Repair and/or replace main P.C. board
Game stops or is	The power connector is disconnected.	Reconnect the connector securely.
stopped with	Possible faulty connection or short circuit.	Check all circuitry for faulty connections
nothing displayed		or short circuits.
in video monitor		

## 10. PART LIST

### **10-1 MAIN MECHANICAL LOCATION**



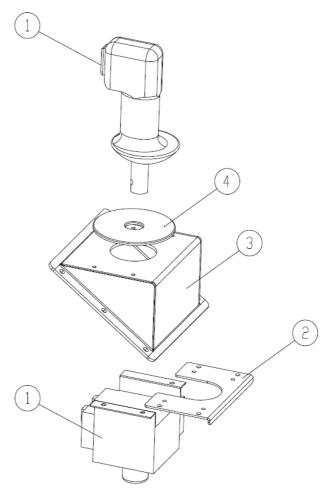
NO.	PART CODE FOR BASE FRAME	DESCRIPTION	QTY	SPECIFICATION	IMAGES
1	5-08-0001	BASE FRAME	1	FIBERGLASS	
2	YBJ-00-07	UNDERFRAME	1	COMPONENT ASSY	
3	1-61-6501	SKIRT	1	PVC	
4	5-65-0001	FIBER GLASS	1	FIBER REINFORCE PLASTIC	

5	YBJ-00-02	SET OF SOFTWARE,PC & I/O COMPONENT	1	COMPONENT ASSY	
6	BBB-1000	COIN DOOR ASSEMBLY	1	COMPONENT ASSY	
7	BBB-2000	MONITOR ASSEMBLY	1	COMPONENT ASSY	
8	BBB-3000	TICKET DOOR and OPTIONAL DBV ASSEMBLY	1	COMPONENT ASSY	
9	BBB-ASM-029	HANDRAIL	2	SUS304	
10	BBB-4000	JOYSTICK ASSEMBLY	1	COMPONENT ASSY	
11	1-56-6504	LARGE EXHAUST LAMP COVER	1	PMMA DIFFUSER COVER	
12	1-38-0014	RGB LIGHT BOARD	1	РСВ	
13	1-56-1701	SPEAKER COVER	2	CLEAR LED RING	
14	1-56-6502	MONITOR'S FACE PLATE	1	SILK SCREENED ACRYLIC	9
15	1-38-0042	WHITE LED LIGHT BORAD	2	РСВ	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
16	1-03-0001	SPEAKER	2	8 OHM, 5W	
17	1-38-0010	T8 LED (5 SET)	2	PCB	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
18	1-38-0042	WHITE LED LIGHT BORAD	2	PCB	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
19	1-38-0010	T8 LED (7 SET)	1	PCB	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$
20	BBB-ASM-027	OUTSIDE BARRELS OF VULCAN GUN HEAD	12	WELD COMPONENT	
21	1-56-6508	BACKING BOARD OF VULCAN GUN HEAD	6	BLACK ABS	
22	1-52-6504	COVER OF VULCAN GUN HEAD	6	ELECTROPLATED ABS	000

23	BBB-ASM-015	INSIDE TUBE OF VULCAN GUN HEAD	12	WELD COMPONENT	
24	1-38-0014	RGB LIGHT BOARD	2	PCB	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
25	3-55-6505	EYE FASTENED PANEL	2	SPCC WHITE	
26	1-56-6501	EYE COMPONENT	2	VACUUM FORMED ACRYLIC	
27	1-02-0103	COLOR LED ROUND PUSHBUTTON	4	COMPONENT	
28	BBB-S092	FLOOR PANEL	1	ALUMINIUM DIAMOND PLATE	
29	1-46-0011	CASTERS (WITH BRAKING)	2	UNIVERSAL WHEEL(4 INCH)	
30	BBB-S091	U -STYLE ALUMINIUM THRESHOLD PLATE	2	ALUMINIUM PLATE WITH DIAMOND PLATE PATTERN	
31	BBB-S039/BB B-S039M-R	RIGHT SIDE ALUMINIUM PLATE WITH DIAMOND PLATE PATTERN	1	ALUMINIUM PLATE WITH DIAMOND PLATE PATTERN	
32	BBB-S039/BB B-S039M-L	LEFT SIDE ALUMINIUM PLATE WITH DIAMOND PLATE PATTERN	1	ALUMINIUM PLATE WITH DIAMOND PLATE PATTERN	
33	1-52-6505	SIDE LAMP COVER	6	PC RED TRANSLUCENT	
34	1-38-0183	RED LED LIGHT BOARD FOR SIDE LAMP	6	PCB	29 CAR TOWN 0311
35	1-46-0011	FIXED CASTER	2	UNIVERSAL WHEEL (4")	
36	1-46-0012	DIRECTIONAL CASTER	2	DIRECTIONAL WHEEL (4")	
37	1-46-1002	ADJUSTER	4	M16 (HEIGHT 215	
38	1-38-0191	RGB SMALL LIGHT BOARD	2	PCB	
39	1-56-6503	SMALL EXHAUST LAMP COVER	2	PMMA DIFFUSER COVER	,
40	1-15-0038	BACK RED TAIL LAMP ASSY	4	DIRECTIONAL FLASHERS	
41	1-52-6503	LASER GUN	1	PC MOLDED PART	
42	1-38-0014	RGB LED BIG LIGHT BOARD	1	PCB	

	1-18-0028 FLASHING LIGHT(GREEN)			8.0	
42	1-18-0029	FLASHING LIGHT(RED)	4	SMALL CONTROL PANEL FLASHING COLOR LEDs.	8.0
43	1-18-0030	FLASHING LIGHT(YELLOW)	4	EACH COLOR PER ONE PIECE	
	1-18-0031	FLASHING LIGHT(BLUE)			20
44	1-56-6507	ACRYLIC FOR CONTROL PANEL CONSOLE	1	PMMA SILKSCREEN	
45	1-22-0003	POWER FILTER	1	FUSE 15A	200 m 100 m

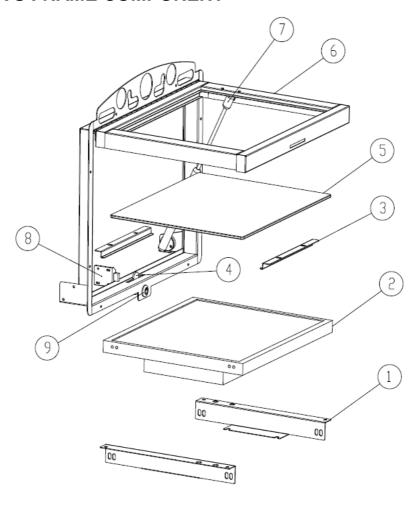
### **10-2 JOYSTICK COMPONENT**



NO.	PART CODE FOR BASE FRAME	DESCRIPTION	QTY	SPECIFICATION/ MATERIAL	IMAGES
1	1-03-0015	4-WAY JOYSTICK	1	SPCC	400
2	3-55-6506	JOYSTICK BASE PANEL	1	SPCC	

3	3-55-6501	JOYSTICK BASE ASSEMBLY	1	COMPONENT	
4	1-56-6506	JOYSTICK BASE COVER PIECE	1	BLACK ABS	

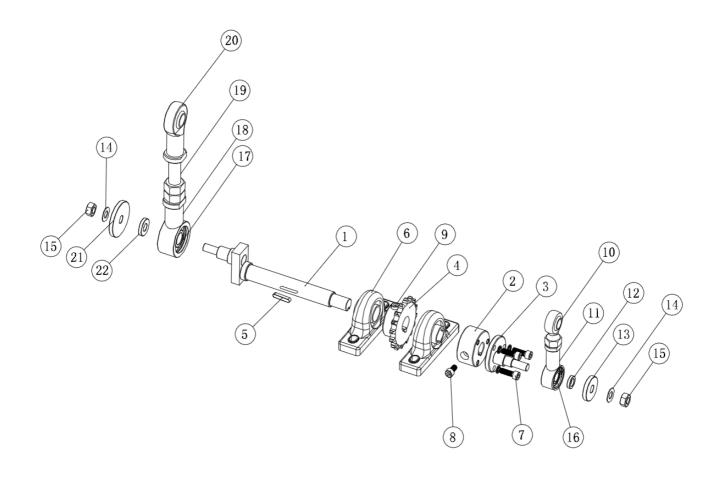
### **10-3 MONITOR'S FRAME COMPONENT**



NO.	PART CODE	DESCRIPTION	QTY	SPECIFICATION/ MATERIAL	IMAGES
1	BBB-S080	MONITOR BRACKET	2	SECC	
2	1-64-0002	MONITOR	1	17寸4:3/12V	
3	BBB-S013	FASTEN PLATE FOR GLASS	2	SECC	
4	BBB-S077	MONITOR FRAME ASSY LOCKING CAM	1	SUS304	

5	1-68-6501	GLASS FOR MONITOR	1	TEMPERED GLASS	
6	3-55-6504	MONITOR FRAME COVER	1	COMPONENT	
7	1-60-0278	GAS OPERATED CYLINDER SPRING	1	120N	
8	1-60-0271	SELF-LOCK/SELF-OPEN ASSY	1	33x58	3 3
9	1-50-0003	LOCK	1	THE LOCK NAMED C582 FOR THE KEY NAMED GU0711	Q D

### **10-4 ECCENTRIC BEARING**

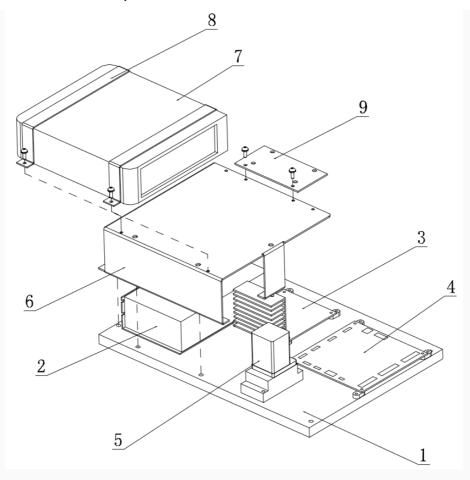


NO.	PART CODE	DESCRIPTION	QTY	SPECIFICATION/ MATERIAL	IMAGES
1	1-70-0815	DRIVE MOTION BEARING	1	Q235	1

2	1-70-0816	ECCENTRIC BLOCK A	1	Q235	
3	1-70-0817	D817 ECCENTRIC BLOCK B		Q235	
4	1-70-0818	DRIVE CHAIN GEAR	1	45#	10
5	1-60-0046	FLAT KEY (A TYPE)	1	6X6X32	
6	1-44-0097	UCP205 PILLOW BLOCK	2	UCP205	
7	1-67-0115	SOCKET CAP SCREWS	3	M8X25	
8	1-67-4121	SOCKET CAP SCREWS	1	M8X12	9
9	1-67-5401	SOCKET CAP SCREWS	1	M8X10	
10	1-44-0092	MOTION LINKAGE JOINT BEARING (IN TEETH)	1	SOP16	
11	1-70-0824	MOTION BEARING BUSHING B	1	Q235	
12	1-70-0834	21 INNER WASHER	1	РОМ	0
13	1-70-0835	41 OUTER WASHER	1	РОМ	
14	1-67-2020	FLAT WSHER	2	12X24X1.2	0
15	1-67-1105	NYLON LOCK NUT	2	M12	
16	1-44-0104	2202 SELF-ALIGNING BALL BEARING	1	2202	
17	1-44-0103	2304 SELF-ALIGNING BALL BEARING	1	2304	
18	1-70-0823	MOTION BEARING BUSHING A	1	Q235	6

19	1-70-0822	PULL ROD	1	Q235	
20	1-44-0091	MOTION LINKAGE JOINT BEARING (WITH GILB)	1	SOP20	
21	1-70-0833	60 OUTER WASHER	1	POM	0
22	1-70-0832	29 INNER WASHER	1	POM	0

## 10-5 SET OF SOFTWARE, MAIN PC and I/O COMPONENT

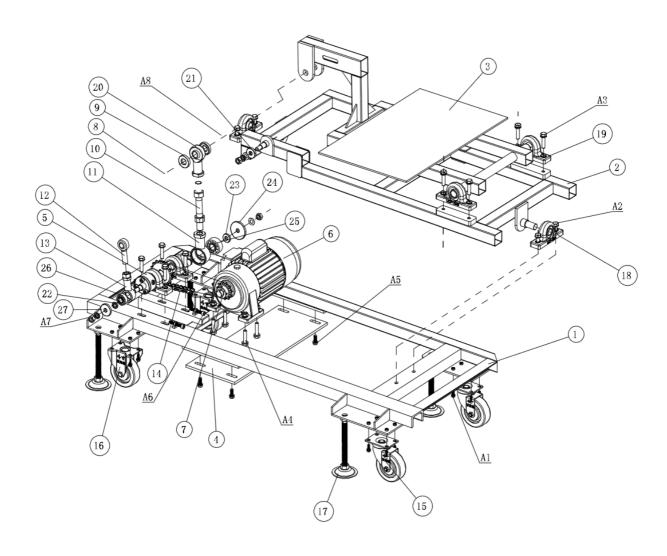


NO.	PART CODE	DESCRIPTION	QTY	SPECIFICATION/ MATERIAL	IMAGES
1	YBJ-007-01	ELECTRIC APPLIANCE INSTALL PLATE	1		
2	1-07-0019	POWER SUPPLY	1	SP-150-12	

3	1-63-0004	AMPLIFIER BOARD	1	GC-2.2	· Mile
4	1-78-6501	IO BOARD	1		
5	1-21-0001	RELAY	1	LJQX-38F/40A	5
6	3-55-0817	MAIN PC BOX HOLDER	1		
7	1-78-6501	MAIN PC BOX	1		
8	YBJ-003-05	FIXED BRACKET FOR MAIN PC BOX	2		
9	YBJ-003-09	FIXED BLOCK FOR POWER SOURCE	1		

Continued on next page;

### 10-6 MECHANICAL BASE ASSEMBLY



NO.	PART CODE	DESCRIPTION	QTY	SPECIFICATION/ MATERIAL	IMAGES
1	3-55-0854	BOTTOM MOTION FRAME ASSY	1	Q235	
2	3-55-0870	MAIN MOTION FRAME ASSY INCLUDING LEFT & RIGHT MOTION BRACKETS	1	Q235	
3	1-55-6503 3-55-6511	UPPER MOTION PLATE	1	Q235	
4	3-55-0878	MOTOR BASE PLATE		Q235	
5	YBJ-00-08	MOTION BEARING INSTALLMENT COMPONENT (COMPLETE DRIVE ASSY)	1		

6	1-01-0083	MOTOR (110V400W)	1	110V400W	
7	1-70-0819	MOTOR CHAIN DRIVE GEAR	1	45#	O
8	1-70-0820	HINGE PIN	1	Q235	
9	1-70-0825	SLEEVE OF MOTION LINKAGE JOINT BEARING	1	Nylon	
10	1-70-0822	PULL ROD	1	Q235	
11	1-70-0823	MOTION BEARING BUSHING A	2	Q235	6
12	1-44-0092	MOTION LINKAGE JOINT BEARING(OUT TEETH M16)	1		
13	1-70-0824	MOTION BEARING BUSHING B	1	Q235	
14	1-60-5002	CHAIN (5 QUANTILE CHAIN )	1	23 JOINT	
15	1-46-0011	UNIVERSAL CASTER (4")	2	REAR	
16	1-46-0012	DIRECTIONAL CASTER (4")	2	FRONT	
17	1-46-1002	ADJUSTER (LEVELER)	4		
18	1-44-0017	PILLOW BLOCK (UCP204)	2	UCP204	
19	1-44-0097	PILLOW BLOCK (UCP205)	4	UCP205	
20	1-44-0091	MOTION LINKAGE JOINT BEARING (INNER TEETH M20)	1	SOP20	
21	1-70-0826	SMALL WASHER FOR JOINT BEARING	1	NYLON	

22	1-70-0834	21 INNER NYLON WASHER	1	POM YBJ-010-23	0
23	1-70-0832	29 INNER NYLON WASHER	1	POM YBJ-010-21	0
24	1-70-0833	60 OUTER NYLON WASHER	1	POM YBJ-010-22	0
25	1-44-0104	SELF-ALIGNING CAPTIVE BALL BEARING	1	2202	
26	1-44-0103	SELF-ALIGNING CAPTIVE BALL BEARING	1	2304	
27	1-70-0835	41 OUTER NYLON WASHER	1	POM YBJ-010-24	

### 10-7 GRAPHIC MATERIALS-DECALS & LABELS

NO.	PART CODE	DESCRIPTION	QTY	SPECIFICATION/ MATERIAL	IMAGES
1	1-69-6507	Graphics on both sides of Control Panel	1	PP	
2	1-69-6502	Graphics on joystick base	1	PP	
3	1-69-6503	Graphics on missile	1	PP	MIGHTER BIG BUS BUSTER WITH THE STREET AND THE STREET STRE
4	1-69-6504	Graphics on Control Panel	1	PP	L-HOCKET RADGET
5	1-69-6505	Decals on body	1	Water Decal	
6	1-69-6506	Decals on Tail Fin	1	Water Decal	To reason and the second

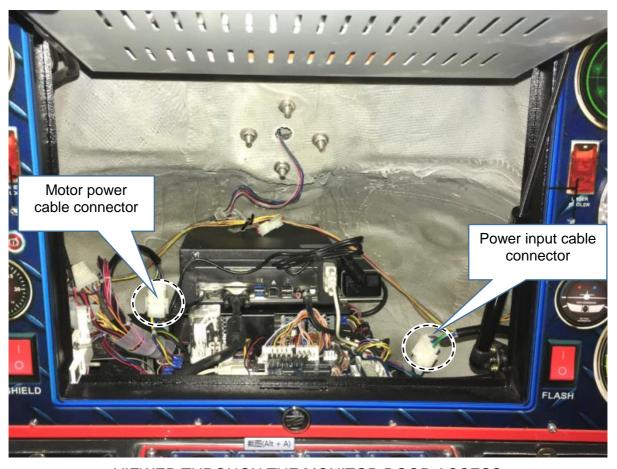
7	1-69-6509	Graphics on Meter Panel	1	PP	COIN TICKET  MENU OPTION TICKET CLEAR  - VOL + PRESS JOSTICK FOR BUTTON TO BUT MENU
8	1-69-0821	Warning Label 1	1	PP	KEEP HANDS AND FEET AWAY FROM ALL MOVING MECHANICAL PARTS  STING. INTERNATIONAL USA PO BOX 450, ELK GIBOYE, IL 800090-0450 USA
9	1-69-0819	Warning Label 2	1	PP	AVOID ELECTRICAL SHOCK!  ALWAYS POWER OFF THE MACHINE WHEN SERVICING OR CLEANING!  STING INTERNATIONAL USA TO BOX 450, ELK GROVE, IL 80009-0469 USA
10	1-69-0822	Voltage Label	1	PP	CAUTION! POWER SWITCH 110-120V
11	1-69-6508	Label on Ticket door	1	PP	TICKETS
12	1-69-6501	Laser Label (inside rear center port)	0.2		
13	1-69-0800	UCL Label (at coin door)	1	PP	
14	1-69-6511	12V Label (at DBV cable)	1	PP	12V 12V
15	1-69-6510	Serial and Rating Label	1	PP	Description of Market Control

# 11. REMOVING THE FIBERGLASS BODY- (NOTE- This step requires two people)

The fiberglass body must be removed when servicing the swing mechanism of the base. The method to remove the body when necessary is as follows:

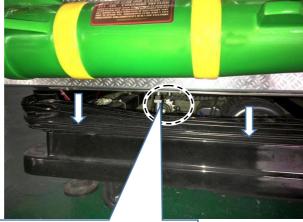
- 1. Turn the game on, and enter the MENU & OPTIONs screen by pressing the appropriate buttons on the meter panel inside the coin door. Scroll through the MENU items to show the TEST screen and activate the motor test. This will cycle the motor and while it is raised to the highest point, disconnect the power turning the game OFF while the body is at the highest position. Raising the body to the highest point makes the swing mechanism swing to the highest point, which is convenient to remove the fixed screw between the fiberglass body and the swing mechanism.
- 2. With the power supply disconnected, open the monitor maintenance door, disassemble the power input wire connector and motor power connector, and keep the connector closest to the

swing mechanism away from the PC, so as not to wind the wire when removing the fiberglass body.



VIEWED THROUGH THE MONITOR DOOR ACCESS

3. Remove the screws attaching the skirt to the underside of the body (not the base) at all points along the connection between the fiberglass and the skirt, and press the skirt toward the base according to the crease in order to collapse it down.





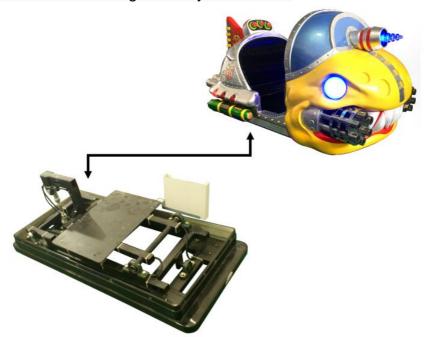
LOOK BETWEEN THE SKIRT AND BODY, BELOW THE SEAT, TO LOCATE THE RETAINING BOLT WHICH CONNECTS THE LONG DRIVE BEARING AND THE MOTOR TO THE UNDERSIDE OF THE BODY. REMOVE THE NUT.

Loosen the retaining bolt and nut between the fiberglass and the swing mechanism (circled above).NOTE- This step needs to be completed by two people! Have someone slightly lift the body in order to take the weight of the body off the retaining bolt so that it can be removed easily.

4. On the inside floor of the ride, remove the 4 screws on the pedal position of the fiberglass (The circle below).



5. With two people lifting straight up slowly, lift the fiberglass body away. This step needs to be done by two people for personal and equipment safety. The swing mechanism can be found and easily accessed after the fiberglass body is removed.



- 6. The swing mechanism can be checked, maintained and repaired after removing the fiberglass body. It is recommended to always properly grease the base mechanism using the zerk grease fittings at this time for easy access.
- 7. After finishing the inspection, maintenance and repair, install the machine in reverse order.

Continued on the next page;

#### Attention:

- Install the fiberglass body on the swing mechanism, aligning the position of the four screw holes inside the ride floor to the 4 holes in the swing base mechanism, making sure one hole is well aligned at first, and then drive the floor bolt down to make sure that the location is no longer offset, then rotating the body slightly to ensure proper alignment, insert and fasten the three remaining bolts.
- Be certain after complete installation and reassembly of the swing bearing below the seat, see that the power and motor connectors are connected properly behind the monitor. Check the motor test to move the ride and confirm everything has been properly reinstalled before reattaching the skirt between the base and the underside of the body.



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