Set up and Service Manual

Version: PXP-A2-01





- ★ Please read this manual before operating your game.
- Please keep this manual in good condition for future reference.



Injoy Motion Corp. Copyright © 2013 All rights reserved

Need parts or service, please contact us:

Injoy Motion Corp.



Technical support: +886-2-2267-6317

Fax: +886-2-2267-5906

E-mail: support@injoymotion.com

Note

- The product specifications are subject to change without notice.
- This game content, equipment and design protected by law, including patents, copyrights and intellectual property rights.
- Unauthorized reproduction of this document or any of its contents is strictly prohibited.



SGS Reference No: RD/2013/70013C

Page 1 of 1

VERIFICATION OF COMPLIANCE to the requirements of

EMC Directive 2004/108/EC

: RD/2013/70013C Verification Report No.

: PROJECT X-PHER AIR TWIN Representative Model

Series Model(s) : X AIR TWIN-Z

(X=ALLIED TANK ATTACK, PROJECT X-PHER,

TOP GUNNER; Z=1, 2, 4)

: AIR Series Motion Simulator Product Name

Applicant : Injoy Motion Corp.

: 48, Yongping Street, Tucheng District, New Taipei City 236, Taiwan Address of Applicant

Test Report Number : RD/2013/70013 : July 26, 2013 Date of Issue

Applicable Standards : SGS Onsite Test Standard: 2012

EN 61000-6-2: 2005, EN 61000-6-4: 2009

Conclusion

In the opinion of SGS, the equipment complies with the principle requirement of the above standards and following directive:

Electromagnetic Compatibility Directive 2004/108/EC

Note: The verification is only valid for the equipment and configuration tested and in conjunction with the test data described in the Test Report.

The CE mark as shown below can be used, under the responsibility of the manufacture, after completion an EC Declaration of Conformity and compliances with all relevant EC Directives.

Authorized Signatory:

SGS TAIWAN LTD.

Technical Manager

Jason Lin

TWB1139795



ADVANCED SAFETY PRODUCT ASP TECHNOLOGY CORP

8F.-1,No.1, Zhongzheng Rd., Tucheng Dist., New Taipei City 23670, Taiwan(R.O.C.) TEL:886-2-22613919, FAX:886-2-22613918, E-mail:ASP.twn@gmail.com

VERIFICATION OF CONFORMITY

We Hereby Certify that

The following mentioned product has been tested in typical configuration by ASP.

Applicant:

INJOY MOTION CORP.

No. 48, YONGPING ST., TUCHENG DIST.,
NEW TAIPEI CITY 236, TAIWAN(R.O.C.)

Product Type:

AIR SERIES MOTION SIMULATOR

Model Name:

X AIR TWIN-Z
(X=Top gunner, Project X-Pher, Allied Tank Attack; Z=1, 2, 4)

Is in compliance with the European Council Directive 2006/95/EC.

The submitted samples comply with the requirements of the following standard(s):

EN 60950-1:2006+A12:2011

CE

This verification refers only to the units submitted for test. The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

Signed for and on behalf of ASP Technology

Kevin Ku/ Manager. ASP Technology Corp. Oct. 14, 2013

The technical report issued by ASP will support you affix the CE marking.

TCF No.: 3731

Verification Of Conformity

EC DECLARATION OF CONFORMITY

INJOY MOTION CORP.

No. 48, YONGPING St., TUCHENG DIST.,

NEW TAIPEI CITY 236, TAIWAN(R.O.C.)

(Name / Address)

We herewith declare that the following designated product type:

Product Type:

AIR SERIES MOTION SIMULATOR

Product Name:

X AIR TWIN-Z

(X=Top gunner, Project X-Pher, Allied Tank Attack; Z=1, 2, 4)

Conform with the essential requirement of the relevant European Directive: - LVD Directive: 2006/95/EC

They are based on the following standards:

 EN 60950-1:2006+A12:2011 - Information technology equipment – Safety - Part 1: General requirements.

MANUFACTURER / IMPORTER

(Surname, forename) (Company Stamp)

20/3.11.05 Taiwan

(Date and place)

CE

TCF No.: 3731

Declaration Of Conformity

Index

1. General Information 1.1 Safety Notes	
1.2 Specifications	
2. Installation	
2.1 Checklist	
2.2 Installation	9
3. Game setting (Operator menu)	
3.2 Game Options	20
3.3 Joystick Setting	21
3.4 Volume setting	23
3.5 Device Test	23
3.6 Save & Exit	24
3.7 System Recovery	25
4. Trouble shooting	
4.2 General issues	26
4.3 Display	29
4.4 Sound	29
4.5 Control	30
4.6 Technical Support	32
Appendix A: How to connect tubes	
Appendix B: Clean the two way drain valve Appendix C: Connection for coin accepter	

1. General Information

1.1 Safety Notes

Please read the following instructions carefully before using the game.



Using separate power supply for this machine



Handling with care

The game contains glass and fragile electronic equipment, should be very careful when handling



Be sure to turn off the power before maintenance



Earth Connection

To avoid electrical shock! Please use earth connection.



Using connectors properly
Check direction before connect



Move PC with care

1.2 Specifications

Installed Dimensions (LxWxH)	227x159x196cm	
Approximate Weight	733kg	
Voltage & Power Requirement	(1) AC 110VAC, 50/60Hz, 2000W (2) AC 220VAC, 50/60Hz, 2000W	

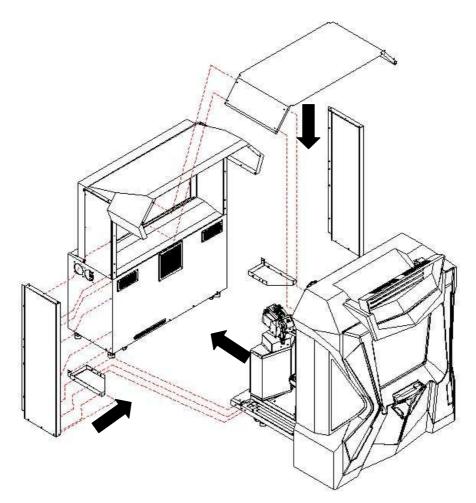
Note: The power cord should be connected to a dedicated 15A/220V circuit. No other game should share the circuit with this game.

2. Installation

2.1 Checklist

Item (For 1 machine)	Q'ty
TV cabinet (monitor base)	1
Cockpit (seat base)	1
Accessories	5
(top/ right corner/ left corner/ left side/ right side metal plate)	
Service manual (with CD)	1
Other parts kit (plug adapter, keys)	1

Note: This machine must be installed indoor, need to maintain a distance of 1 m with the wall. Make sure the unit stands are placed flat on the ground and the machine is not moving when playing.

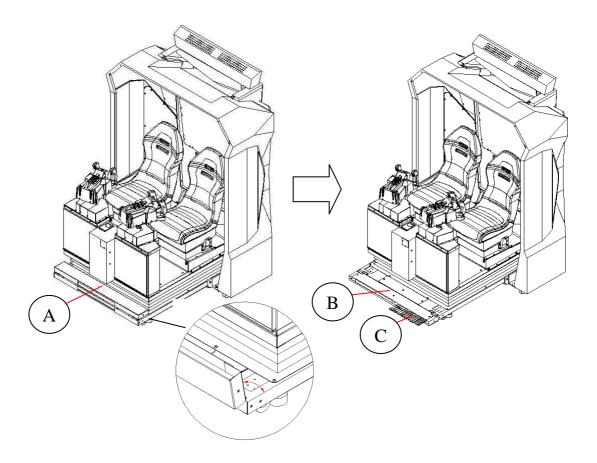


Assembly Diagram

2.2 Installation

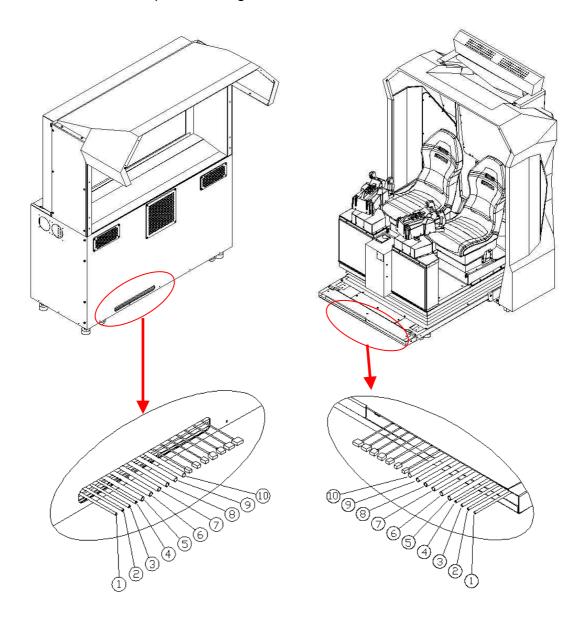
Step1: Inspect the exterior of the cabinet for any damage.

Step2: Open case (a) until horizontal position. Then open case cover (B), and take out tubes and all connectors (C).



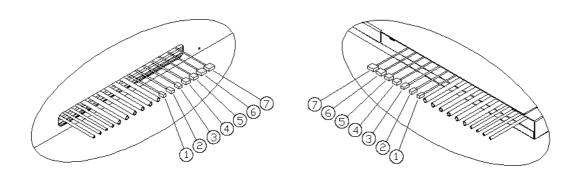
Step3: Connecting the tubes

Move the cockpit close to TV cabinet, and connect the tubes ①~⑩ from TV cabinet to cockpit according to the same color and size.



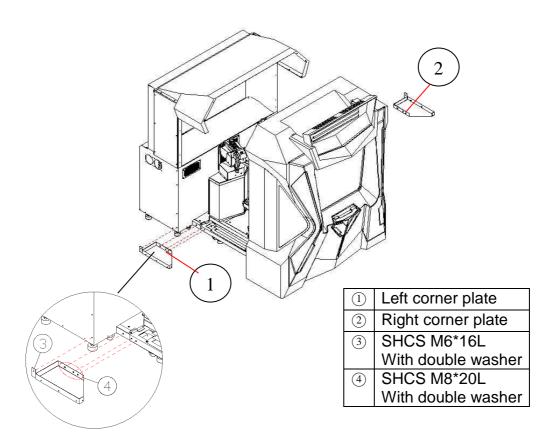
1	ψ6 Black Tube	6	ψ10 Orange Tube
2	ψ6 Orange Tube	7	ψ10 Blue Tube
3	ψ6 Blue Tube	8	ψ10 Red Tube
4	ψ6 No-color Tube	9	ψ10 No-color Tube
(5)	ψ10 Black Tube	10	ψ10 Transparent-Blue Tube

Step4: Connecting the connectors $\bigcirc \sim \bigcirc$ from TV cabinet to cockpit by the same pin-number and the same name tag.

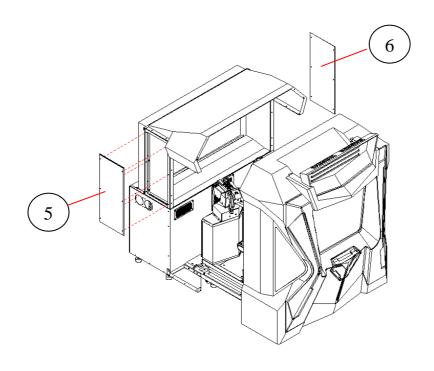


Number	Shape	Pin	Tag name
	4 3 2 2 1 1	4	SysGH
2	6 5 4 2 3 2 1 1	6	Coin Power
3	6 5 4 2 3 2 1 1	6	BL
4	8765 4321	8	Coin EX
(5)	8765 4321	8	START
6	[4 [3[2]] [0 9 8] 7 6 5 4 3 2 1	14	VR
7	16543121109 87654321	16	BTN&SB

Step5: Move the cockpit close to TV cabinet. Use screws ③ ④ to combine left/right corner plate ① ② to the machine.

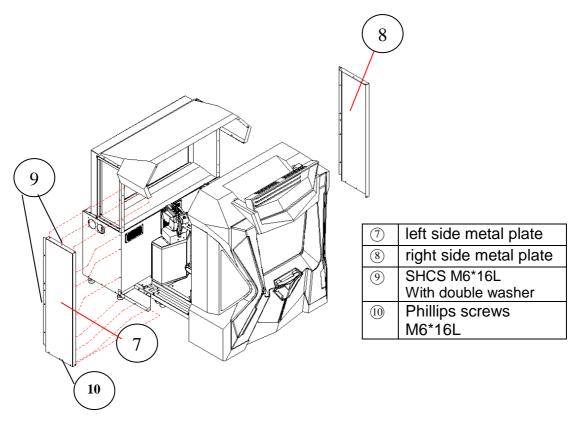


Step6: Remove acrylic cover 5 6, and keep their screws

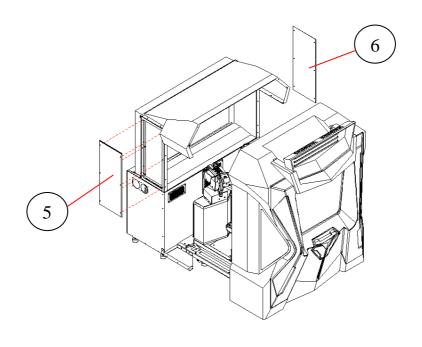


©2013 Injoy Motion Corp.

Step7: Use screws 9 10 to combine the left/right side metal plate 7 8 to the machine.

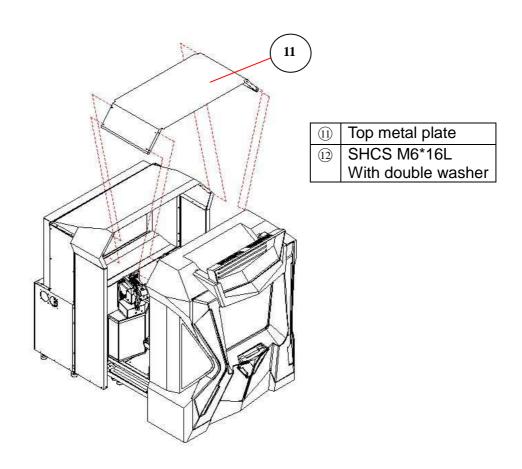


Step8: Attach the acrylic cover 5 6 to the machine, and use the screws in step6 to fix it.

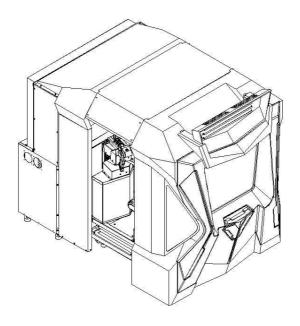


©2013 Injoy Motion Corp.

Step9: Use screws to combine top metal plate the with the machine.



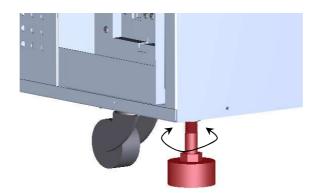
Step10: Assembly done.



©2013 Injoy Motion Corp.

Step11: Move the cabinet to the installation site, check that the width of the pathway need to be more than 1m.

Step12: When the cabinet is in it's final position, adjust the unit stands with the spanner, so that all casters are raised from the floor. Then fix the lock nut with the spanner to ensure the stands do not move.



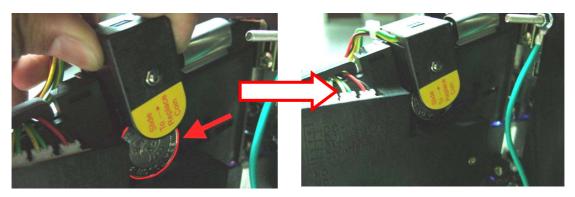
Step13: Connect the AC power cord from the cabinet to the AC wall outlet.



- 1. The power cord should be connected to a dedicated 15A /220Vcircuit.
- 2. No other game should share the circuit with this game

Coin Acceptor Setting

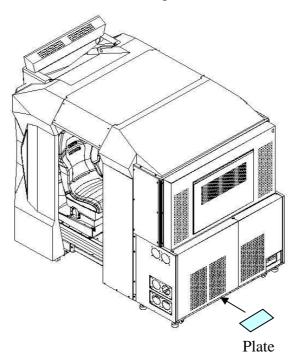
Step14: Pull up the slider of the coin acceptor and insert the coin into the coin acceptor. Release the slider to fix the coin acceptor.



Step15: Check the Coin Acceptor Setting. (Select "NO" on top switch, "SLOW" on bottom switch)

Placement for external plate

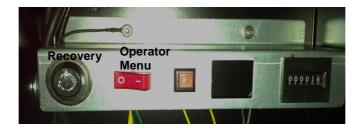
Step16: Put a plate on the floor and right under the drain valve.



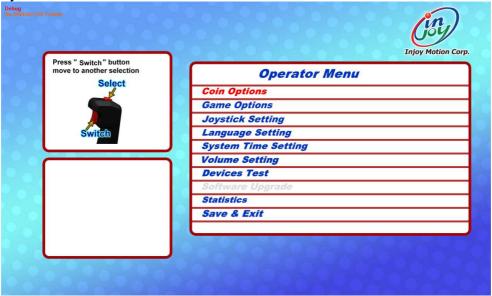
Note: The air compressor tank drains water after machine power off. So it is suggested to put a container on the floor and right under the drain valve to catch the water. Generally, a plastic plate around 25x20x3 cm (LxWxH) is suggested.

3. Game setting (Operator menu)

To access Operator Menu, after the Power is switched ON and the screen shows "insert coin", find the red operator menu switch located inside the coin box, switch it to "I" position to enter.



Then you will see below screen.



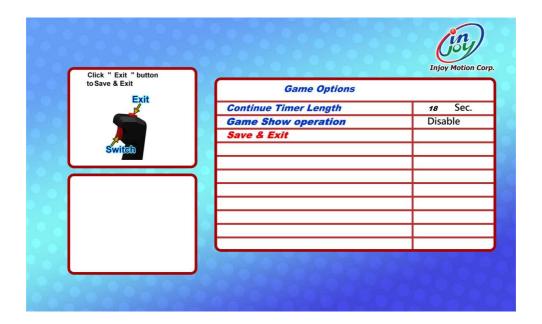
3.1 Coin Options

- 1. "Coins per Play" allows you to set how many coins it will take for a player to start a game. The factory default setting value is 4 coins per play.
- 2. "Coins per Continue" allows you to charge a different price for continue-play from the first game play. The factory default setting value is 4 coins per play.
- **3.** "Currency Type" is not to select the currency of a country, but allows selection of the forms of currency
- **4.** "Coins per Pulse (Coin Acceptor 1)" allows you to adapt different currency acceptors. The default value is 1.
- 5. "Coins per Pulse (Coin Acceptor 2)" allows you to adapt different currency acceptors. The default value is 1.



3.2 Game Options

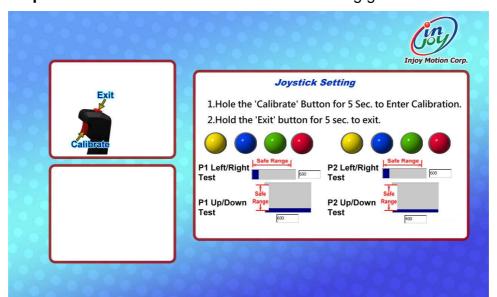
- 1. "Continue Timer Length" no function.
- 2. "Game Show Operation" Enable sets free game play. Click "+" or "-" button to "Enable" or "Disable" this function.



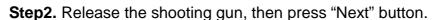
3.3 JOYSTICK SETTING

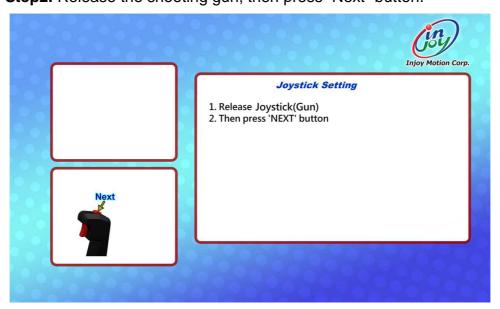
If the potentiometer value is out of safe range after installation, it will result in error. Please fine tune the potentiometer values to make it work in the safe range and do the calibration.

To calibrate the joystick, follow the directions on the screen and go through the steps below.

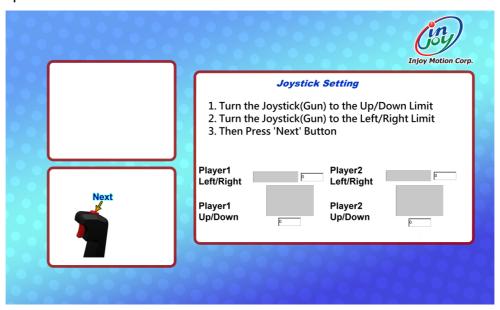


Step1. Hold the "Calibrate" button on the shooting gun to calibrate it.

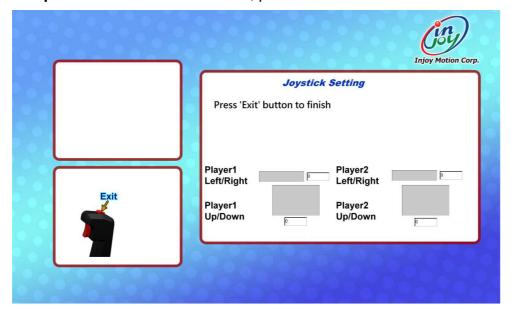




Step3. Turn the shooting gun to the up, down & left, right limit and then press "Next" button.

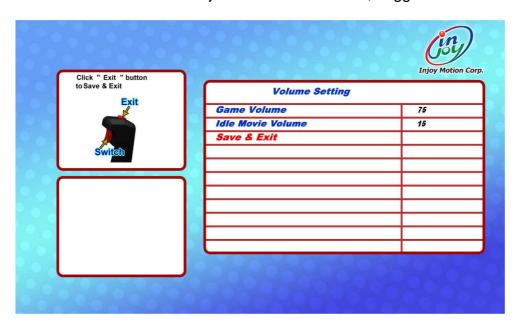


Step4. After finish the calibration, press "Exit" button to finish.



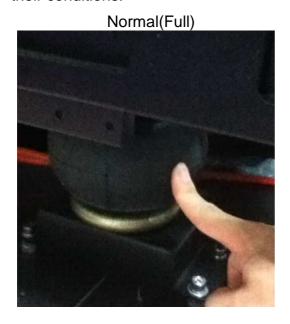
3.4 Volume setting

"Game Volume" can adjust the system volume, suggestion 75~85. "Idle Movie Volume" can adjust Idle Movie volume, suggestion 15~35.



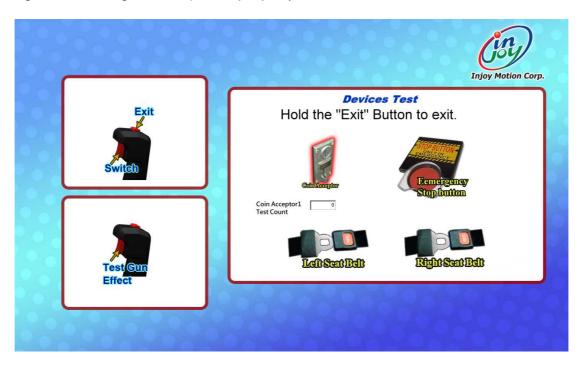
3.5 Device Test

After entering device test, all airbags will be aerated, and we can check their conditions.





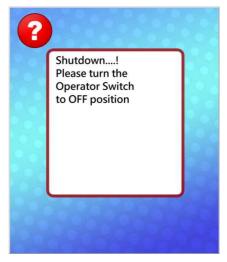
Check if all device (coin accepter, emergency stop button, left seat belt, right seat belt, gun effect) work properly as well.



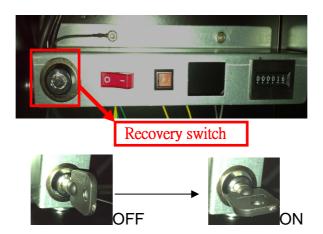
3.6 Save & Exit

After the setup is completed, please select "Save & Exit", and then select "Yes". Lastly, switch the red operator menu switch back to "O" position and turn off the machine. Then wait for 30secs and turn on machine power.





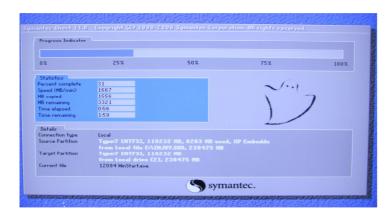
3.7 System Recovery



Step1: When the screen shows "insert coin", Use the key specified for recovery switch and turn it right.

Step2: Turn the machine off, wait for 30 seconds

Step3: Turn on the power, and you will see the screen as below. When recovery is in progress, do not turn off the power, or the system will be destroyed permanently.



Step4: If success, will see screen as below.

Please pull out USB flash disk
Then turn off the power!!

C:>>_

Step5: Turn the key left and take it out.

Step6: Turn the machine off, wait for 30 seconds

Step7: Turn on the power. <Finish>

©2013 Injoy Motion Corp.

4. Trouble shooting

4.1 Error code

EC001

Description	Calibration fail on left gun's X axis	
C	ause	Troubleshooting
1. potentiom dead zor		Make sure the potentiometer is working in the operating range, value increase/decrease smoothly, and then re-enter the game operation menu to do the calibration again.
2. faulty pote	entiometer	Change the potentiometer of the gun and enter the game operation menu to calibrate again.

EC002

Description	Calibration fail on left gun's Y axis	
C	ause	Troubleshooting
1. potentiom dead zor		Make sure the potentiometer is working in the operating range, value increase/decrease smoothly, and then re-enter the game operation menu to do the calibration again.
2. faulty pote	entiometer	Change the potentiometer of the gun and enter the game operation menu to calibrate again.

EC003

Description	Cockpit card car	n not be recognized
C	ause	Troubleshooting
1. faulty USE	3 cable	Replace the USB cable
2. faulty USE motherbo		Plug the USB cable to another USB port on the motherboard
2. faulty coc	kpit card	Replace the cockpit card.

EC005

Description	Calibration fail of	on right gun's X axis
C	ause	Troubleshooting
1. potentiom dead zor		Make sure the potentiometer is working in the operating range, value increase/decrease smoothly, and then re-enter the game operation menu to do the calibration again.
2. faulty pote	entiometer	Change the potentiometer of the gun and enter the game operation menu to calibrate again.

EC006

Description	Calibration fail of	on right gun's Y axis
C	ause	Troubleshooting
1. potentiom dead zor		Make sure the potentiometer is working in the operating range, value increase/decrease smoothly, and then re-enter the game operation menu to do the calibration again.
2. faulty pote	entiometer	Change the potentiometer of the gun and enter the game operation menu to calibrate again

4.2 General issues

Problem	Solution
No power	Make sure the power cord is connected and voltage is correct.
	Make sure the breaker is "ON".
	Make sure the power switch of the air compressor is "ON".
No motion	Make sure the output valve of the air compressor is "ON".
No motion	Make sure the green light on all pneumatic valves light up.
	Go to operator menu Device Test to test all airbags.
	Make sure no other game share the power circuit with this game.
PC shut down	Make sure the computer's power cord is well connected.
suddenly	Reconnect memory stick, graphic card in the computer.
	Change the PC power supply.
PC Crash	Restart the PC.
Machine overheat	Check all fans work properly.
Machine Overneat	Ensure no objects block the vents.
	Remove stuck coins.
Can not insert coin	Go to operator menu check Coin Setting.
33	Reinstall reference coin.
Can not recover	Make sure recovery USB disk is connect in the PC.
system	Contact Injoy Motion Corp. to change the hard disk.
	Check the connection between cockpit card and OP switch.
Can not enter operator menu	Recover the system.

4.3 Display

Problem	Solution
	Update graphic card's driver.
	Check the connection for the monitor.
No screen	Clean and reconnect the graphic card.
	Contact Injoy Motion Corp. to change the graphic card.
	Contact Injoy Motion Corp. to change the LCD.
	Check the power cord and power switch on the PC.
No screen and no sound	Take out the PC and test it on the desk with external monitor and keyboard.
	Contact Injoy Motion Corp for more information.
White screen	Make sure USB cable between cockpit card and pc is well connected.
Lag problem	Update graphic card's driver and restart the PC.
Lag problem	Contact Injoy Motion Corp. to change the graphic card.
Resolution is not right	Change resolution to1280x768.
LCD abnormal	Contact Injoy Motion Corp. to change the LCD.

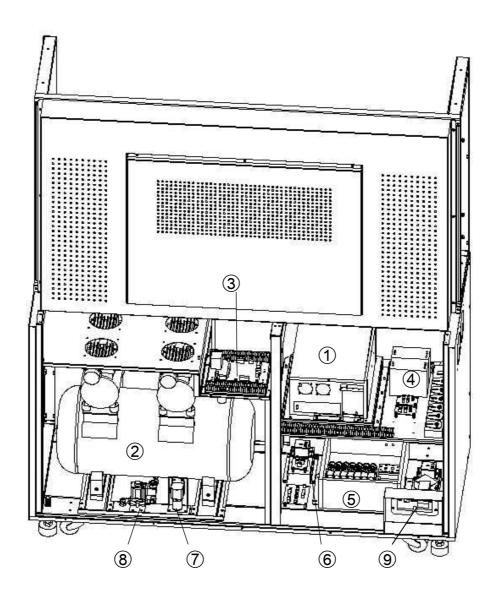
4.4 Sound

Problem	Solution		
No sound in game	Go to operator menu and change <i>Volume Setting</i> . Adjust amplifier volume.		
	Check the connection for audio amplifier and speaker.		
	Contact Injoy Motion Corp. to change the audio amplifier.		
Poor sound in game	Contact Injoy Motion Corp. to change the audio amplifier.		
air leak could be heard	Listen carefully to the air compressor, air bags, tubes, drain valve and water filter to find out where's air leak. Then check if the connection is loose or something broken.		
	Put your hand under the control cabinet, right under the drain valve and water filter to feel if there's air leak.		

4.5 Control

Problem	Solution		
Button failure	Change micro switch.		
	Check wire connecting.		
	Contact Injoy Motion Corp. to change the cockpit card.		
The moving for the target on the screen is abnormal	Go to operator menu Joystick Setting and do the calibration.		
	Check the potentiometer for the joystick.		
Airbag does not work properly in the game.	Go to operator menu Device Test and check if all airbags work fine.		
	Make sure the power switch of the air compressor is "ON".		
	Check if air compressor works properly.		
	Make sure all green lights on pneumatic valves light up.		
	Contact Injoy Motion Corp. for further support.		

Main Parts



1	PC	6	Air control card
2	Air compressor	7	Water filter
3	Cockpit card	8	Drain valve
4	Power supply	9	Input AC power
(5)	Pneumatic valve		

4.6 Technical Support

Service center: Injoy Motion Corp.

Phone: +886-2-2267-6317

Fax: +886-2-2267-5906

Time: 9:00AM~6:00PM (GMT+8), Monday to Friday

E-mail: support@injoymotion.com

When you contact technical support, please provide the following information so that we can understand the situation and solve your problem as soon as possible, thank you for your cooperation:

Appendix A: How to connect tubes

1. Insert

A. Insert the tube to the end.

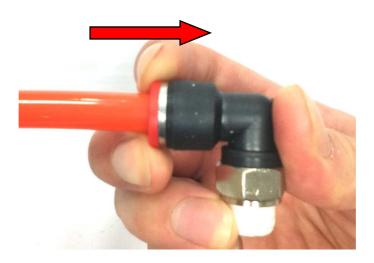


B. Finish

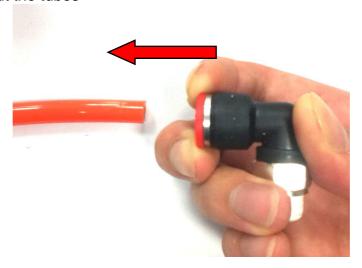


2. Pull out

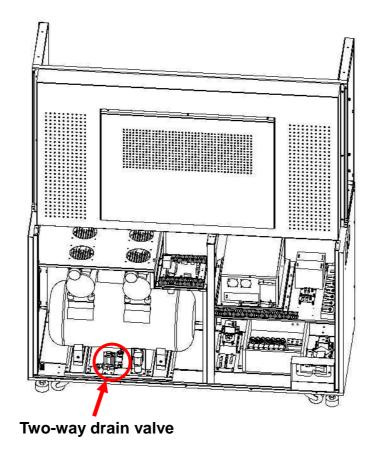
A. Push the releasing ring in the front of the quick coupler.



B. Pull out the tubes



Appendix B: Clean the two-way drain valve



Follow the steps below to clean the pathway inside the drain valve:

1. Remove the metal piece



2. Remove the body-part



3. Remove 4 screws



4. Remove the core-part



©2013 Injoy Motion Corp. 36

5. Clean the two-way valve inside



6. Install the core-part



7. Install 4 screws



©2013 Injoy Motion Corp. 37

8. Install the body-part

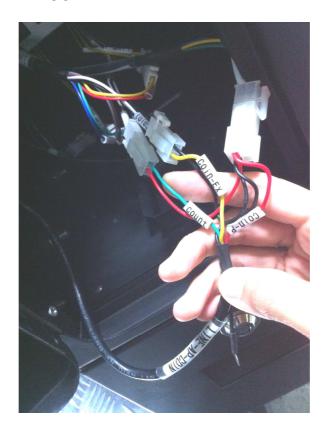


9. Install the metal piece <Finish>



Appendix C: Connection for coin accepter

LINE-AP-COIN is the main cable for the coin accepter. There are three branches for LINE-AP-COIN:



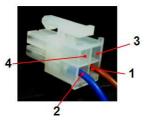
1. "Coin-P" input power 12V to the coin accepter.

Connector assignment:

Pin1: 12VDC (red)

Pin2: ground (black)

Pin3: none Pin4: none



2. "Coin-Ex" output credit signal from the coin accepter

Connector assignment:

Pin1: credit pulse Pin2: ground (black)

3. "Count" output coin count to the counter

output count to the count

Connector assignment: Pin1: coin count

Pin2: 12VDC (red)

