SERVICE MANUAL

WINNERS' CUBE DX

STOP

IMPORTANT

▶ Please read the manual carefully and keep it in mind before using this machine.

▶ Put this manual within touch of your reference in anytime.

PRECAUTIONS FOR USE

The following safety precautions are given throughout this manual. They must be strictly followed to protect those who install, use or maintain this product as well as to protect players, visitors and property.

For safty reasons.
- The following suggestions should be adhered to:

> ⚠ WARNING
> Disregarding could result in serious injury.

> ⚠ CAUTION
> Disregarding could result in injury or product damage.

- **The following graphic suggestions describe the types of precautions to be followed.**

> ⚠
> Indicates a care should be taken.

> ⊘
> Forbidden.

> 🔌
> Indicates a matter which must be performed.

- **Precautions to be followed:**

Certain procedures require a qualified in-shop maintenance person or industry specialist. For such instructions, a qualified person must take care of the jobs.
- Otherwise an electric shock, machine trouble, or a serious accident may result.
- Replacing the machine parts, inspecting and maintaining the machines, and troubleshooting must be assigned only to a qualified in-shop maintenance person or industry specialist. This booklet gives instructions that hazardous jobs in particular must be handled by an industry specialist. Qualified in-shop maintenance person and industry specialist are defined as follows.

Qualified in-shop maintenance person
- A service staff shall have experience in operations of game machines. The staff shall be responsible for assembly, installation, inspection and maintenance of the machine.

Industry specialist
- An industry specialist must be engaged in designing, manufacturing, inspecting and servicing amusement machines. He or she must have an education in electrical, electronic and mechanical engineering, and routinely maintain and repair amusement machines.

PRECAUTIONS FOR USE

⚠ WARNING

Be sure to consult an industry specialist when setting up, moving or transporting this product.
- This product should not be set up, moved or transported by any one other than an industry specialist.
- When installing this product, set the 4 leg levelers evenly on the floor and make sure that the product is installed stably in a horizontal position. Unstable installation may result in injury or accident.
- When installing this product, do not apply undue force on movable parts. Otherwise, injury and accident may result, or the product may be damaged.

The machine for indoor usage only does not install outside. ⊘

Do not set the game machine up near emergency exits. ⊘

Protect the game machine from: ⊘
- Rain or moisture.
- Direct sunlight.
- Direct heat from air-conditioning and heating equipment, etc..
- Hazardous flammable substances.
- Otherwise an accident or malfunction may result.

Do not place containers holding chemicals or water on or near the game machine. ⊘

Do not place objects near the ventilating holes. ⊘

Do not bend the power cord by force or place heavy objects on it. ⊘

Never plug or unplug the power cord with wet hands. ⊘

Never unplug the game machine by pulling the power cord. ⊘

⚠ CAUTION

Be sure to use indoor wiring within the specified voltage requirements. For extension cord, use the specified rating or more.

Be sure to use the attached power cord.

Never plug more than one cord at a time into the electrical receptacle. ⊘

Do not lay the power cord where people walk through. ⊘

Be sure to ground this product. ⏚

Do not exert excessive force when moving the machine. ⊘

For proper ventilation, keep the game machine 100mm(4″) away from the walls.

Do not alter the system related dipswitch settings.

PRECAUTIONS FOR USE

⚠ WARNING

If there is any abnormality such as smoke, bad smell or abnormal noise being emitted from the machine, immediately turn OFF the main power switch and unplug the power cord from the receptacle to stop operating it.
- Using the machine in abnormal conditions could result in fire or accidents.

In case of abnormality

1. Turn OFF the main power switch.
2. Unplug the power cord from the receptacle.
3. Contact your nearest dealer.

Do not leave the power cord plugged in improperly or covered with dust.
- Doing so could resu t the power cord periodically.

⚠ CAUTION

Do not use this product anywhere other than industrial areas.
- Using in a residential area or an area next to a residential area could affect signal reception of radios, television sets, telephones, etc..

- Do not give shock the surface of glass products.

- Please do not play this game if
  - When you do drinking;
  - When your physical condition is not normal;
  - When you are in pregnancy;
  - When you have on a pulse controller;
  - When you have recently experienced a cramp or fainting away while watching TV.
- Avoid excessive force/shock while playing/moving the game.
- While do games, pay attention to surrounding.

Do not plug or unplug the power cord with wet hands.

In handling the power cord, follow the instructions below.

• Do not damage the power cord.	• Do not modify the power cord.
• Do not bend the power cord excessively.	• Do not twist the power cord.
• Do not heat the power cord.	• Do not pull the power cord.
• Do not bind the power cord.	• Do not stand on the power cord.
• Do not sandwich the power cord.	• Do not drive a nail into the power cord.

If the power cord or power plug becomes damaged, stop using the machine immediately and ask your nearest dealer to replace the parts.

PRECAUTIONS FOR USE

⚠ WARNING

Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.

When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.

Opening inside the machine shall be done by machine specialist only as high electric current is being sent inside. For game machine with monitor, a care should be taken while opening its back door. If not, a damage to the inside parts or the monitor may occur.

If the sub power switch of the service panel is turned OFF without turning OFF the main power switch of the power supply unit, some parts in the units remain live. When opening the back door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodeling.

To clean the game machine, wipe it with a soft cloth dampened in a neutral detergent.
- Using thinner of other organic solvent or alcohol may decompose the material.
- Electrical shock or equipment failure could be caused by water entering the inside of the machine.

⚠ CAUTION

Components in the game are sensitive to vibrations and impact. Care should be used when moving and transporting the game machine.
Be sure not to let the machine tip over.

Before moving the machine, be sure to turn OFF the main power switch, unplug the power cord from the receptacle and remove the power cord form the machine.

Before moving take the machine, off the levelers and move it on the casters.

Avoid excessive force while moving the machine.

PRECAUTIONS IN HANDLING

- When setting up, inspecting, maintaining, moving or transporting this product, follow the procedures and instructions set forth in this manual and perform such work safely.

- Do not set up, handle, inspect, maintain, move or transport this product under conditions equivalent to the condition of "WARNING" or "CAUTION" specified in this manual.

- If a new owner is to have this product as a result of transfer, etc., be sure to give this manual to the new owner.

CONTENTS

1. SPECIFICATION AND DIMENSION

1-1. DIMENSION

1720[mm]-68[inches]

1940[mm]-76[inches]

830[mm]-33[inches]

1123[mm]-44[inches]
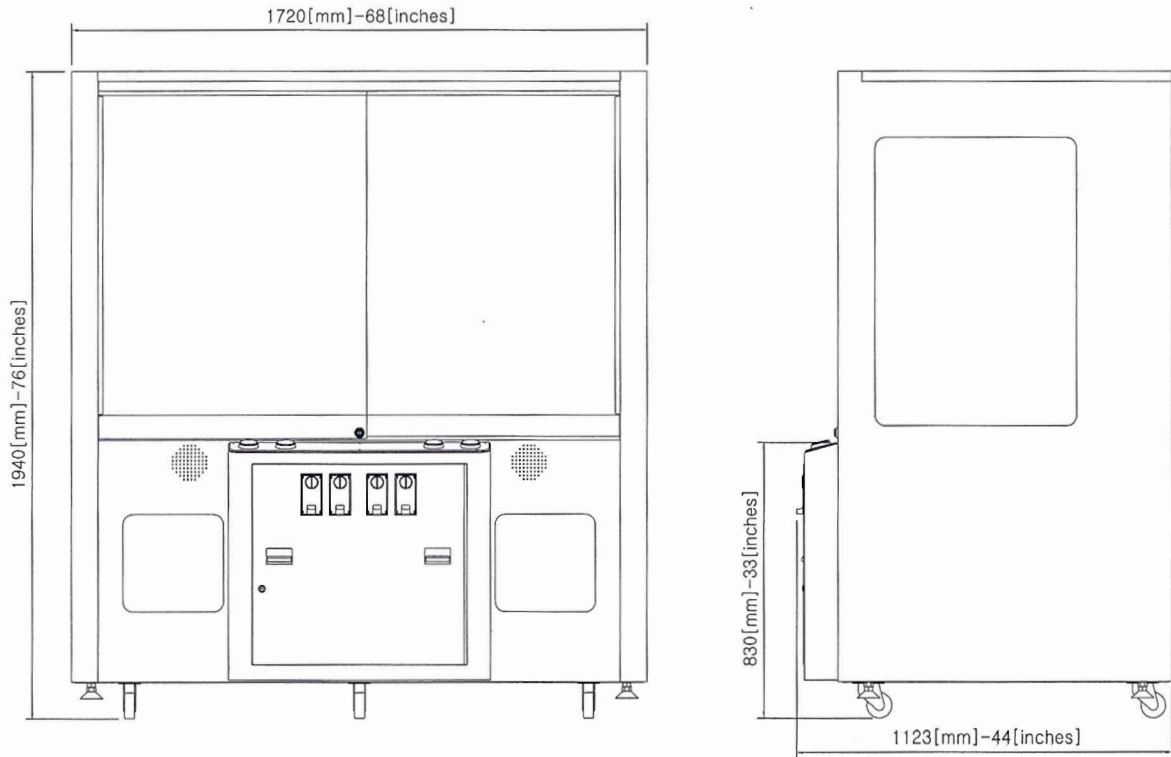
1-2. SPECIFICATION

DIMENSION (W x D x H)	1720 x 1123 x 1940 (mm)
PACKING DIMENSION (W x D x H)	1800 x 1150 x 2150 (mm)
WEIGHT (kg)	400 kg
VOLTAGE	AC 110V
FREQUENCY RANGE	60 Hz
CONSUMPTION	300 W

1-3. NAME OF PARTS & STICKER LOCATION

FRONT WONDOW GLASS

BUTTON PLATE

SPEAKER

PRIZE OUT ACRYL DOOR

COIN SELECTOR

FRONT FRAME PART

SIDE WINDOW GLASS

MAIN CABINET
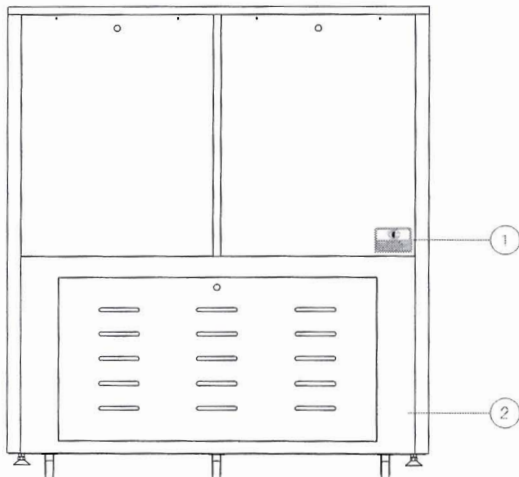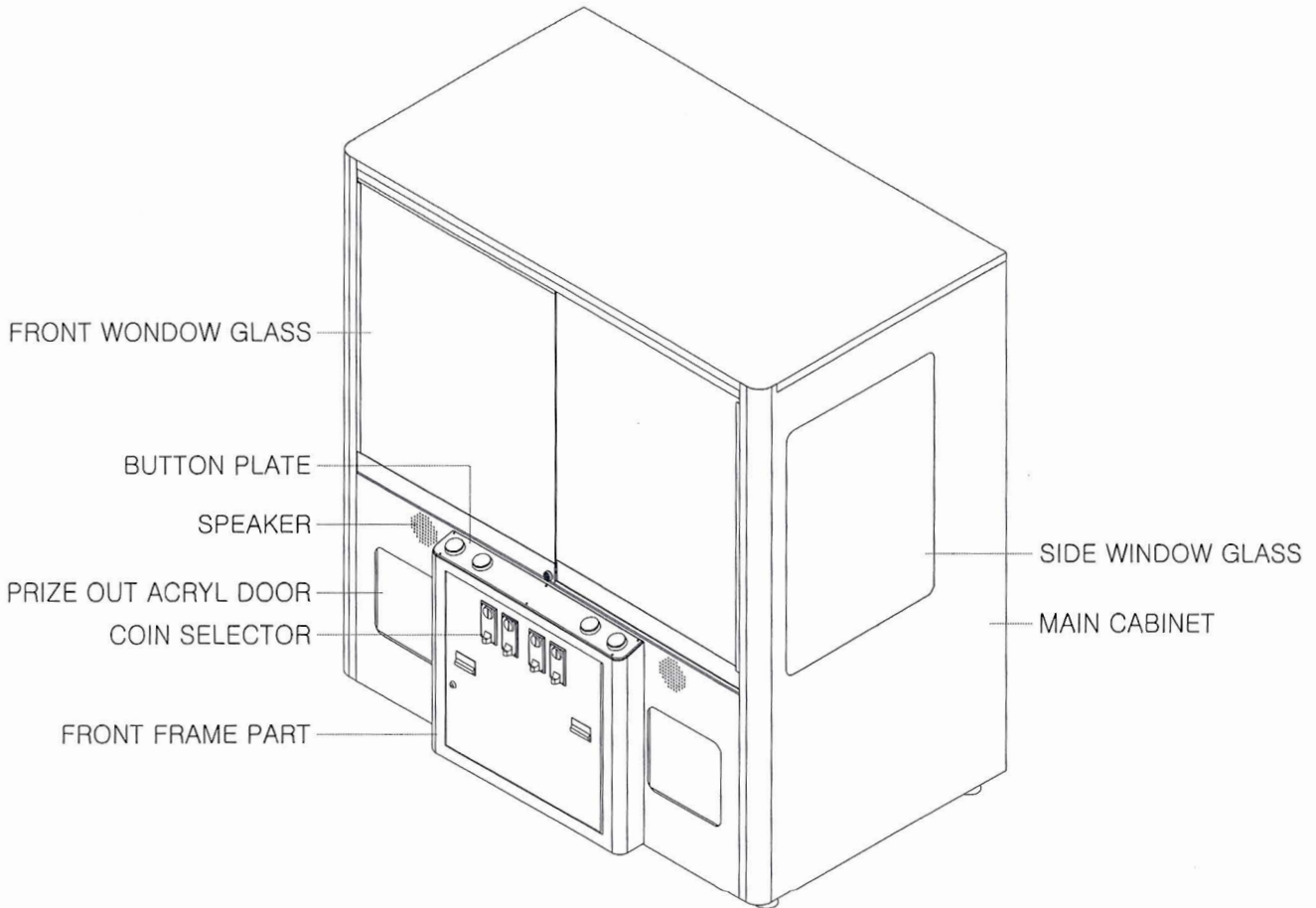
MODEL NAME	WINNER'S CUBE DX
POWER REQUIREMENTS	AC 검표지 정조, 60Hz
POWER CONSUMPTION	300W
WEIGHT (KG)	400Kg
CODE NO.	GWID0000001
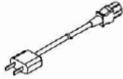
ANDAMIRO

XXXXXX-XXXXXXXXXX

Koyang-si, Kyouggi-do, Korea Phone:82-31-909-2114

⚠ CAUTION

COMPONENTS

NO.	PART NAME	SPEC.		QTY
1	AC POWER CORD	110V		1
2	KEY	6001		2
3	KEY	7001		2
4	KEY	8001		2
5	MANUAL	–		1

2. INSTALLATION

- Need to have installation place.
  Maintenance Zone & Play zone should have at least 2000mm x 1800mm each.

  (IMPORTANT)

- Once you set up the machine with required game-play area,
  when installing this product, set the 2 leg levelers evenly on the floor
  and make sure that it and you must fixed, The product is installed
  stably in a horizontal position by bracket.
  Otherwise the set winning percentage can be twisted.

MAINTENANCE
ZONE

1800[mm]

2000[mm]

PLAY ZONE
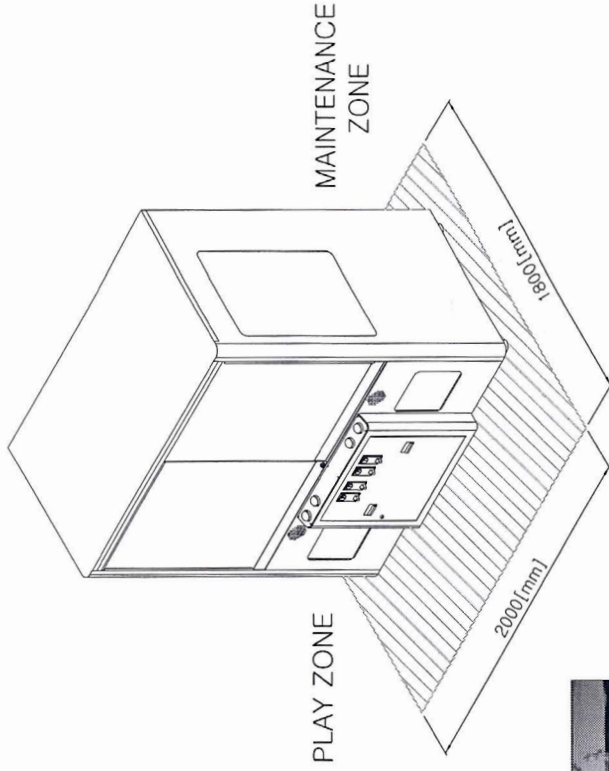
[How to installation]

CABLE TIE   SPONGE

1

2
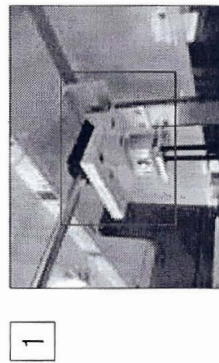
- 1 ~ 2 Remove package for each parts.

4 CALIBRATION SET UP

1

2
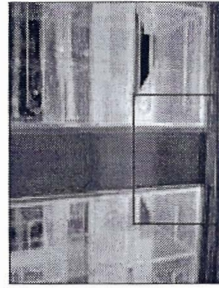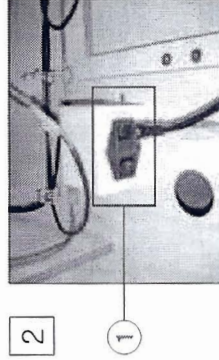
- Plug the ④ AC Power cord into the outlet of outside.

LCD

BRIGHT MENU /
  SELECT CLEAR
LEFT RIGHT
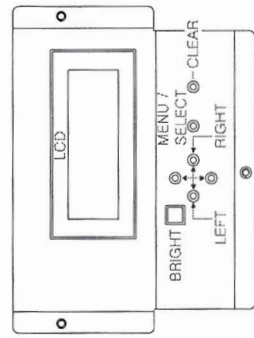
SET MENU : PLAYER-1

Y1 Base : 080
Press CLR to RESET

- Pole start position (Calibration)
  This value is set automatically from
  Calibration setting in Test menu

⚠ It may effect on payout rate if it's
  changed with ones pleases

1) Press "select button (Long Key)" for a while   Access to Set up menu
2) Press "down button" and then find Player-1P Y1 Base menu
3) Press "clear button" for a while It perform Calibration for 1Payer automatically
   – It takes 20 mimutes.
4) Press "right button" and then find Player-2P Y1 Base menu
5) Press "clear button" for a while It perform Calibration for 2Payer automatically
   – It takes 20 mimutes.

3. SET UP

3-1. SETUP METHOD

(1) OPEATIONAL MODE

1. There is "Control panel" when you open front door.
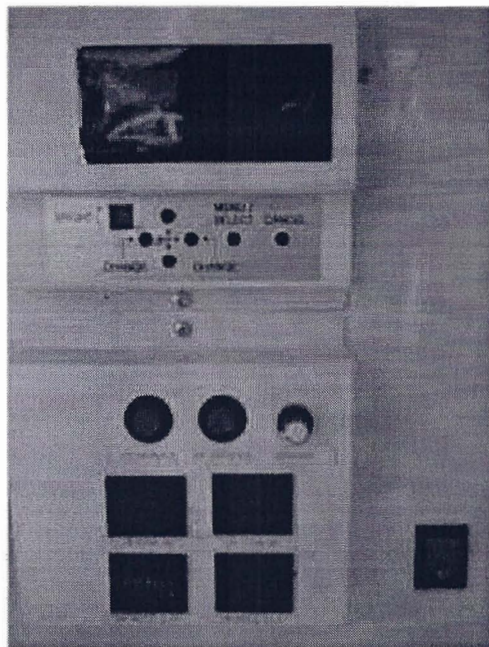
PICTURE A
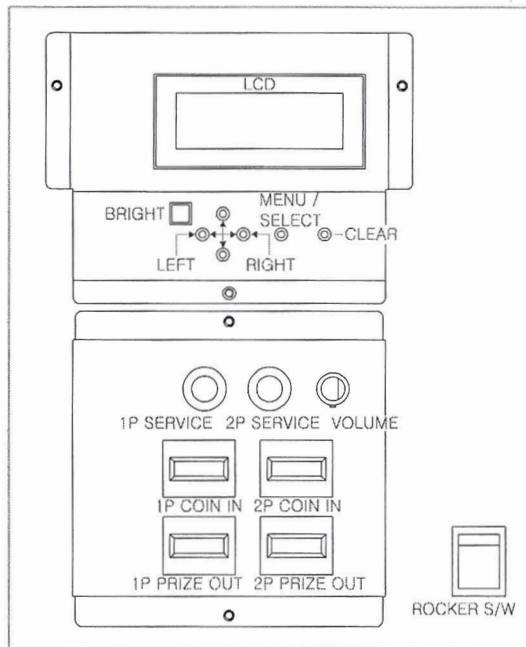
[CONTROL PANEL]

[BUTTON EXPLANATION]

- There are up / down / right / left / select / CLR buttons.

UP/DOWN	Change function.
LEFT/RIGHT	Change plyer-1 and Player-2 After pushing "Select" button, it will change value (-/+) In case of Long Key, the value is changed quickly.
SELECT	Select function, change & set value.
CLEAR	Initialize values, perform Calibration.

[OPERATION MENU]

- **STATUS MENU** : Display current game status.
- **SETUP MODE**
- **CALIBRATION SET UP**

3-2. STATUS MENU

- Change ROW by using [Up], [Dn] button.
- Change 1P, 2P by using [<], [>]
- Y? : The number of ROW
- RND : Payout
- CNT : The number of trial
- PRZ : the number of Prize out
- TOTAL : Total amount of trial

LCD DISPLAY	DESCRIPTION
STATUS : PLAYER-1/-2 ------------ TODAY : 00 TOTAL : 00	The number of playing
STATUS : PLAYER-1/-2 ------------ TOTAL OUT PRIZE 0	The number of Prize out
STATUS : PLAYER-1/-2 ------------ CREDIT COUNT 0	Credit count

* The number of prize out [ROW NO 1~6]

STATUS : PLAYER-1 ------------ Y?,RNb,CNT,PRZ,TOTAL 1 999 000 000 00000	*STATUS : PLAYER-1* ------------ Y?,RNb,CNT,PRZ,TOTAL 2 999 000 000 00000	*STATUS : PLAYER-1* ------------ Y?,RNb,CNT,PRZ,TOTAL 3 999 000 000 00000
STATUS : PLAYER-1 ------------ Y?,RNb,CNT,PRZ,TOTAL 4 999 000 000 00000	*STATUS : PLAYER-1* ------------ Y?,RNb,CNT,PRZ,TOTAL 5 999 000 000 00000	*STATUS : PLAYER-1* ------------ Y?,RNb,CNT,PRZ,TOTAL 6 999 000 000 00000

* The number of prize out [ROW NO 1~3]

STATUS : PLAYER-2 ------------ Y?,RNb,CNT,PRZ,TOTAL 1 999 000 000 00000	*STATUS : PLAYER-2* ------------ Y?,RNb,CNT,PRZ,TOTAL 2 999 000 000 00000	*STATUS : PLAYER-2* ------------ Y?,RNb,CNT,PRZ,TOTAL 3 999 000 000 00000

3-3. SETUP MENU : Press Select button for a while in normal mode.

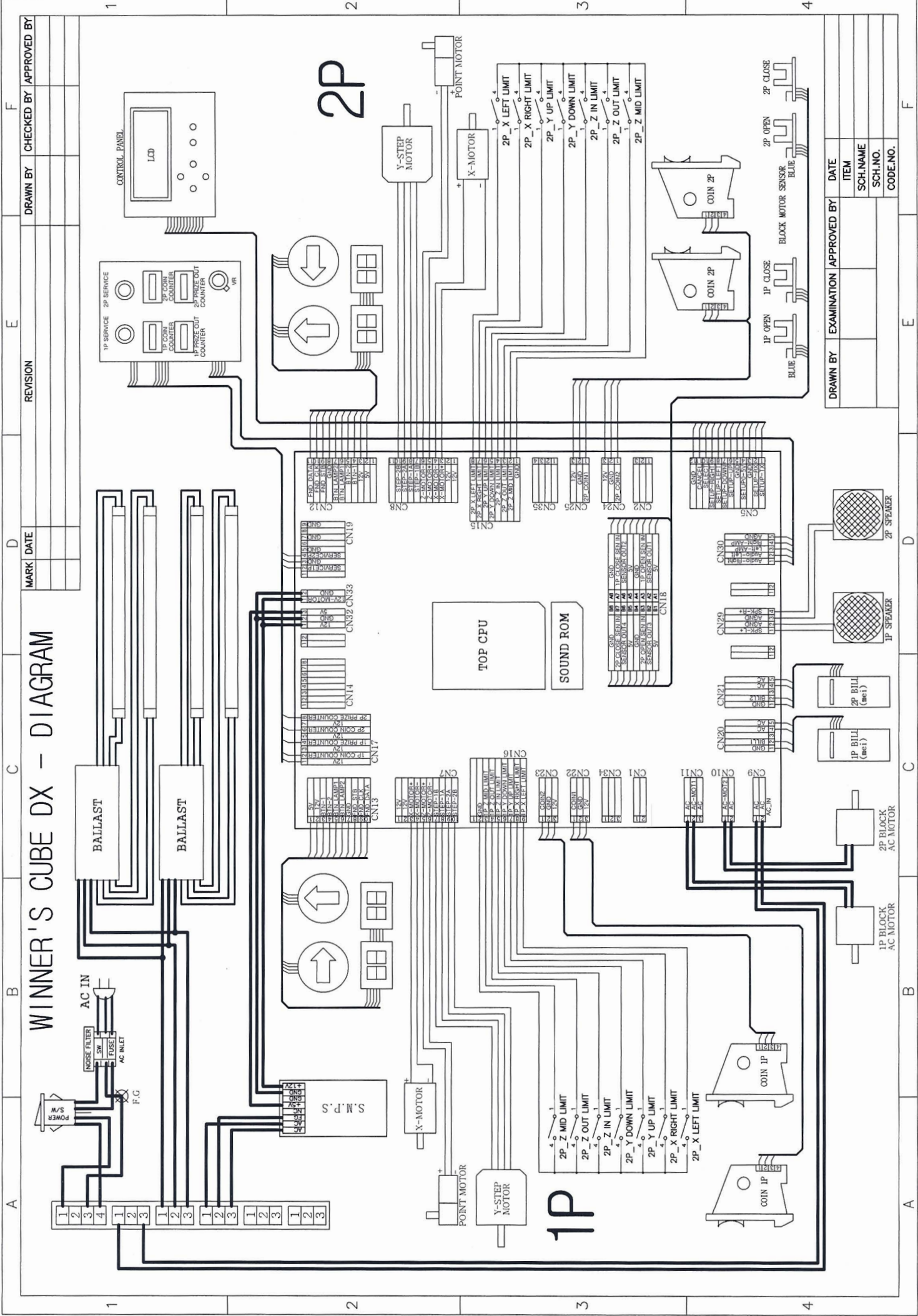| LCD DISPLAY		DESCRIPTION
1P	2P	
SET MENU : PLAYER-1 ------------ WINNER'S CUBE DX ANDAMIRO V1.15	*SET MENU : PLAYER-2* ------------ WINNER'S CUBE DX ANDAMIRO V1.15	Version display
SET MENU : PLAYER-1 ------------ Hole Yn Random 999	*SET MENU : PLAYER-2* ------------ Hole Yn Random 999	- Payout rate for each Row (Y1~Y6) - 1~999까지의 값으로 설정
SET MENU : PLAYER-1 ------------ Random Prize Mode No	*SET MENU : PLAYER-2* ------------ Random Prize Mode No	- Payout rate with Random type (NO/25%/50%75%)
SET MENU : PLAYER-1 ------------ Step Accuracy 2	*SET MENU : PLAYER-2* ------------ Step Accuracy 2	- The accuracy of Moving step : 1~10 (The high it's value, the more it is difficult)
SET MENU : PLAYER-1 Slit Margin 8 step	*SET MENU : PLAYER-2* Slit Margin 8 step	- The allowance of winning range : up and down allowance to judge winning
SET MENU : PLAYER-1 ------------ Y1 Base : 088 Press CLR to RESET	*SET MENU : PLAYER-2* ------------ Y1 Base : 099 Press CLR to RESET	- Pole start position (Calibration) This value is set automatically from Calibration setting in Test menu ⚠ It may effect on payout rate if it's changed with ones pleases
SET MENU : PLAYER-1 ------------ Credit Set 1 Credit 1 Coin	*SET MENU : PLAYER-2* ------------ Credit Set 1 Credit 1 Coin	- The number of coin per play
SET MENU : PLAYER-1 <1>/<2> Coin per Bill 1-Bill= 4 Coin	*SET MENU : PLAYER-2* <1>/<2> Coin per Bill 1-Bill= 4 Coin	- The number of Coin per signal from Bill accepter

LCD DISPLAY		DESCRIPTION
1P	2P	
SET MENU : PLAYER-1 Game Time 20 Sec	*SET MENU : PLAYER-2* Game Time 20 Sec	− Playing time limitation 　: 10~20Sec (Default:20sec)
SET MENU : PLAYER-1 Demo Sound Yes	*SET MENU : PLAYER-2* Demo Sound Yes	Demo sound On/Off
SET MENU : PLAYER-1 Random Type "B"Type	*SET MENU : PLAYER-2* Random Type "B"Type	− Payout mode 　2 type of payout mode (A, B) 　Atype : a winning chance is randomly given 　　　　 within N plays 　Btype : a wining chance is given at N Plays
SET MENU : PLAYER-1 Exit Menu Press the Select Key	*SET MENU : PLAYER-2* Exit Menu Press the Select Key	Save & Exit after pressing "Select" Button.

3-4. CALIBRATION SET UP : Press up/Down button for a while in normal mode

- Change ROW by using [Up], [Dn] button.
- Change 1P, 2P by using [<], [>]
- [CLEAR] : Perform

LCD DISPLAY		
1P	2P	
TEST MENU : PLAYER-1 Test All Rows > Press CLR Button <	*TEST MENU : PLAYER-2* Test All Rows > Press CLR Button <	- Double check of hole position using CLR button.
TEST MENU : PLAYER-1 Y-Calibration 088 (CLR=Reset)	*TEST MENU : PLAYER-2* Y-Calibration 099 (CLR=Reset)	- Modify value by using "SELECT" button, or set automatically with Calibration using "CLR" button.
TEST MENU : PLAYER-1 Factory Initialize Press the Clear Key	*TEST MENU : PLAYER-2* Factory Initialize Press the Clear Key	- Factory setting Go to factory setting.
TEST MENU : PLAYER-1 Initialize Setup Press the CLR Key	*TEST MENU : PLAYER-2* Initialize Setup Press the CLR Key	- Initialize setting Initialize setting by pressing CLR button for a while.
TEST MENU : PLAYER-1 Save Test Setup Press the Select Key	*TEST MENU : PLAYER-2* Save Test Setup Press the Select Key	Save test setup.
TEST MENU : PLAYER-1 Exit Menu Press the Select Key	*TEST MENU : PLAYER-2* Exit Menu Press the Select Key	- Save test menu and Exit Save test menu and Exit using Select button. In case "CLR" button is pressed for a while, All modified value will not be saved and Exit.

WINNER'S CUBE DX — DIAGRAM

WINNER'S CUBE DX wiring schematic diagram.

WINNERS' CUBE DX

ANDAMIRO®