

# SERVICE MANUAL



## CIRCUS BALL DROP™

Ver 1.0\_CEC



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- ▶ 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 safety 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

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 result 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 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

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 or 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 from the machine. 

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

Avoid excessive force while moving the machine.

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## 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.

# PRÉCAUTION D'EMPLOI

Les consignes de sécurité suivantes sont données dans ce manuel. Elles doivent être strictement suivies pour protéger ceux qui les installent. Utiliser ou entretenir ce produit pour la sécurité des utilisateurs, des visiteurs et des biens.

Pour des raisons de sécurité.

- **Les suggestions suivantes doivent être respectées:**

## **ATTENTION**

Le non-respect peut entraîner des blessures graves.

## **PRUDENCE**

Le non-respect peut entraîner des blessures ou des dommages au produit.

- **Les suggestions graphiques suivantes décrivent les types de précautions à prendre.**



Indique qu'attention est requise.



Interdit.



Indique que quelque chose doit être effectuée.

- **Les précautions à prendre :**

**Certaines procédures exigent une personne de maintenance qualifiée en atelier ou un spécialiste de l'industrie. Pour ces instructions, une personne qualifiée doit prendre soin des travaux.**

- Sinon, un choc électrique, un dysfonctionnement de la machine, ou un accident grave peut en résulter.
- Remplacement des pièces de machines, l'inspection et la maintenance des machines, et le dépannage doit être attribué qu'à une personne de maintenance qualifiée en atelier ou spécialiste de l'industrie. Cette brochure donne des instructions que les emplois dangereux, en particulier, doivent être traités par un spécialiste de l'industrie. La personne de maintenance qualifiée en atelier et le spécialiste de l'industrie sont définis comme suit.

### **La personne de maintenance qualifiée en atelier**

- Un personnel de service doit avoir de l'expérience dans les opérations de machines de jeux. Le personnel est responsable pour l'assemblage, l'installation, l'inspection et l'entretien de la machine.

### **Le spécialiste de l'industrie**

- Un spécialiste de l'industrie doit être engagé dans la conception, la fabrication, l'inspection et l'entretien des appareils d'amusement.  
Il ou elle doit avoir une formation en génie électrique, électronique et mécanique, et de maintenir régulièrement et de réparer les appareils d'amusement.

# PRÉCAUTION D'EMPLOI

## ATTENTION

Si il y a une anomalie comme fumée, mauvaise odeur ou bruit anormal émis par la machine,  couper immédiatement l'interrupteur principal et débranchez le câble d'alimentation de la prise pour arrêter son fonctionnement.

- L'utilisation de l'appareil dans des conditions anormales peut provoquer un incendie ou un accident.

En cas d'anomalie

1. Mettez l'interrupteur principal sur ARRÊT.
2. Débranchez le câble d'alimentation de la prise.
3. Contactez votre revendeur le plus proche.

**Ne pas brancher le câble d'alimentation incorrectement ou le laisser être recouvert de poussière.** 

Cela pourrait nuire le câble d'alimentation.

## PRUDENCE

**Ne pas utiliser ce produit ailleurs que dans les zones industrielles.** 

- L'utiliser dans une zone résidentielle ou d'une zone à côté d'un quartier résidentiel pourrait nuire à la réception des radios, téléviseurs, téléphones, etc.
- Ne donnez pas de choc à la surface d'un produit en verre.

- S'il vous plaît ne pas jouer à ce jeu.
  - Quand vous buvez;
  - Lorsque votre condition physique n'est pas normale;
  - Lorsque vous êtes dans une période de grossesse;
  - Lorsque vous avez un contrôleur d'impulsion;
  - Lorsque vous avez récemment subi une crampe ou évanouissement en regardant la télévision.
- Évitez une force excessive / un choc pendant la lecture / de déplacer le jeu.
- Quand vous jouez les jeux, faites attention aux alentours.

**Ne pas brancher ou débrancher le câble d'alimentation avec les mains mouillées.** 

**Dans la manipulation du câble d'alimentation, suivez les instructions ci-dessous.** 

- |  |   |
|--|---|
| • Ne pas endommager le câble d'alimentation.                 | • Ne pas modifier le câble d'alimentation.            |
| • Ne pas plier le câble d'alimentation de manière excessive. | • Ne tordez pas le câble d'alimentation.              |
| • Ne pas chauffer le câble d'alimentation.                   | • Ne tirez pas sur le câble d'alimentation.           |
| • Ne pas lier le câble d'alimentation.                       | • Ne montez pas sur le câble d'alimentation.          |
| • Ne pas prendre en sandwich le câble d'alimentation.        | • Ne pas mettre un clou dans le câble d'alimentation. |

**Si la fiche du câble d'alimentation ou est endommagé, cessez immédiatement d'utiliser la machine et demandez à votre revendeur le plus proche de remplacer les pièces.**

# PRÉCAUTION D'EMPLOI

## ATTENTION

**Assurez-vous de consulter un spécialiste de l'industrie lors de la mise en place, du déplacement ou le transport de ce produit.**

- Ce produit ne doit pas être mis en place, déplacé ou transporté par une quelconque autre qu'un spécialiste de l'industrie.
- Lors de l'installation de ce produit, installez 4 niveleurs de pieds uniformément sur le sol et assurez-vous que le produit est installé de façon stable dans une position horizontale. Une installation instable peut entraîner des blessures ou un accident.
- Lors de l'installation de ce produit, ne pas appliquer une force excessive sur les pièces mobiles. Sinon, des blessures et des accidents peuvent y résulter, ou le produit peut être endommagé.

**La machine pour une utilisation en intérieur uniquement, ne pas installer à l'extérieur.**



**N'installez pas la machine de jeu près des issues de secours.**



**Protéger la machine de jeu de:**



- L'humidité ou la pluie.
- La lumière directe du soleil.
- La chaleur directe de la climatisation et du chauffage, etc...
- Des substances inflammables dangereuses.
- Sinon, un accident ou un dysfonctionnement.

**Ne pas placer les récipients contenant des produits chimiques ou de l'eau sur ou près de la machine de jeu.**



**Ne placez pas d'objets à proximité des orifices de ventilation.**



**Ne pas plier le cordon d'alimentation par la force ou de placer des objets lourds au-dessus.**



**Ne jamais brancher ou débrancher le cordon d'alimentation avec les mains mouillées.**



**Ne jamais débrancher la machine de jeu en tirant le câble d'alimentation.**



## PRUDENCE

**Veillez à utiliser le câblage intérieur selon les exigences de tension spécifiées. Pour une rallonge, utilisez la notation spécifiée ou plus.**

**Veillez à utiliser le cordon d'alimentation fourni.**

**Ne jamais brancher plus d'un cordon à la fois dans la prise électrique.**



**Ne pas poser le cordon d'alimentation où les gens marchent à travers.**



**Soyez sûr de mettre à la terre ce produit.**



**Ne pas exercer une force excessive lors du déplacement de la machine.**



**Pour une ventilation correcte, garder la machine de jeu 100mm (4 ") loin des murs.**

**Ne pas modifier les réglages des commutateurs DIP liées au système.**

# PRÉCAUTION D'EMPLOI

## ATTENTION

Veillez à éteindre l'interrupteur d'alimentation principale et débranchez le cordon d'alimentation de la prise avant d'inspecter ou de nettoyer la machine. 

Lors du remplacement des pièces, veillez à utiliser une partie des spécifications correctes. Ne jamais utiliser de pièces autres que celles spécifiées. 

L'ouverture à l'intérieur de la machine doit être effectuée par le spécialiste de la machine seulement, comme le courant électrique élevé est transmis à l'intérieur. Pour la machine de jeu avec le moniteur, un soin doit être pris lors de l'ouverture de sa porte arrière. Si non, une détérioration des pièces à l'intérieur ou à l'écran peut se produire. 

Si l'interrupteur secondaire du panneau de service est éteint sans éteindre le commutateur d'alimentation principale de l'unité d'alimentation, certaines parties dans les unités restent sous tension. Lors de l'ouverture de la porte arrière, veillez à éteindre l'interrupteur d'alimentation principale et débranchez le cordon d'alimentation de la prise. 

Il est strictement conseillé de s'abstenir de démonter et de réparer des pièces qui ne sont pas indiqués dans ce manuel, ainsi que les paramètres et le remodelage. 

Pour nettoyer la machine de jeu, l'essuyer avec un chiffon doux imbibé avec un détergent neutre.

- L'utilisation plus mince d'un autre solvant organique ou de l'alcool peut décomposer le matériel.
- Un choc électrique ou une défaillance de l'équipement pourraient être causés par la pénétration de l'eau à l'intérieur de la machine.

## PRUDENCE

Les composants de la machine de jeu sont sensibles aux vibrations et aux chocs. Il faut faire attention lors du déplacement et le transport de la machine de jeu.   
Veillez à ne pas laisser la machine se renverser.

Avant de déplacer la machine, veillez à éteindre l'interrupteur d'alimentation principale, débranchez le cordon d'alimentation de la prise et débranchez le cordon d'alimentation de la machine. 

Avant de déplacer la machine, la mettre hors des niveleurs et le déplacer sur les roulettes.

Éviter une force excessive lors du déplacement de la machine.

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## PRÉCAUTIONS LORS DU MANIEMENT

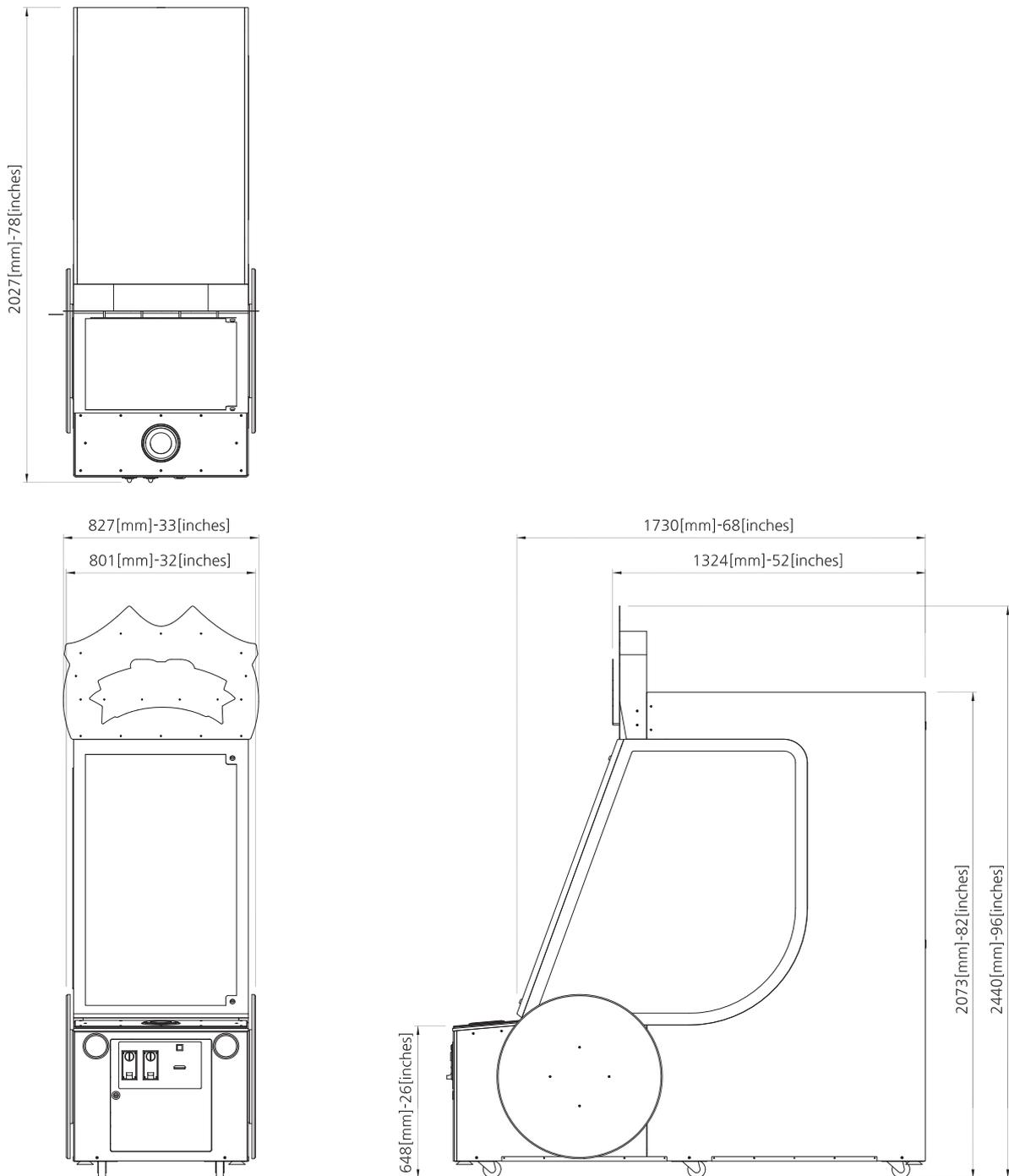
- Lors de la mise en place, l'inspection, l'entretien, déplacement ou le transport de ce produit, suivez les procédures et les instructions énoncées dans ce manuel et effectuer ce travail en toute sécurité.
- Ne pas mettre en place, manipuler, inspecter, entretenir, déplacer ou transporter ce produit dans des conditions équivalentes à l'état de "ATTENTION" ou "PRUDENCE" spécifiée dans ce manuel.
- Si un nouveau propriétaire obtient ce produit à la suite d'un transfert, etc., soyez sûr de donner ce manuel au nouveau propriétaire.

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# 1. SPECIFICATION AND DIMENSION

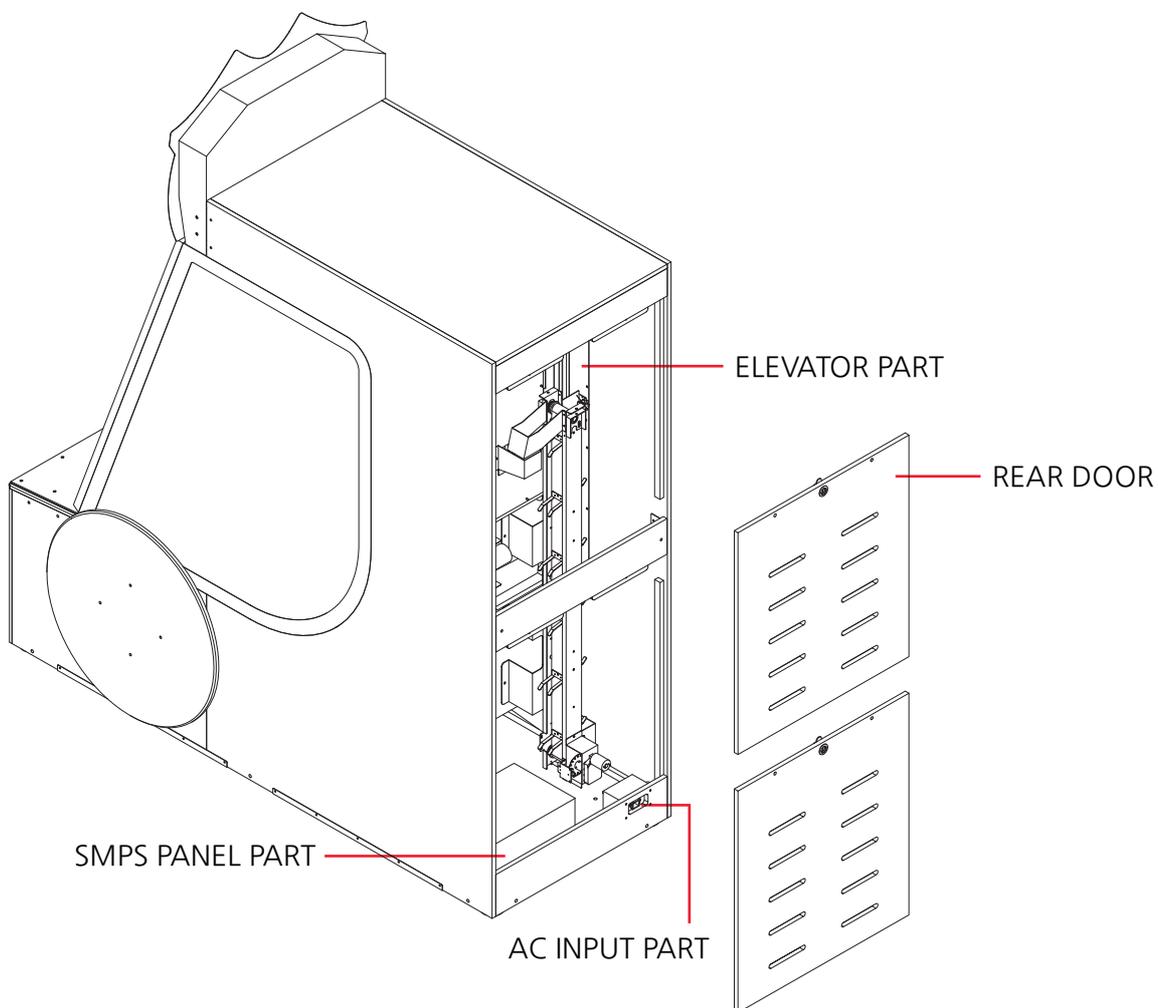
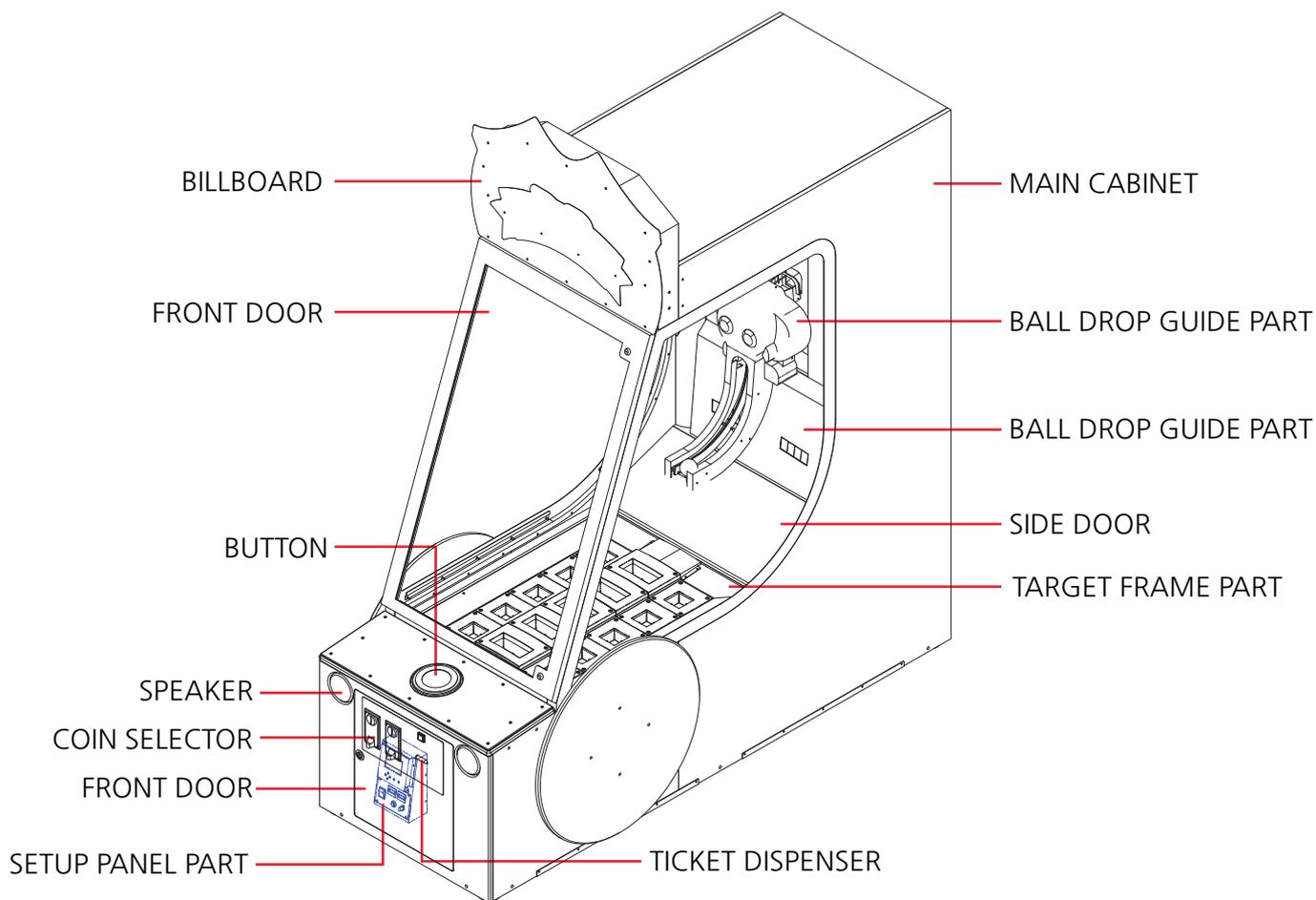
## 1-1. DIMENSION



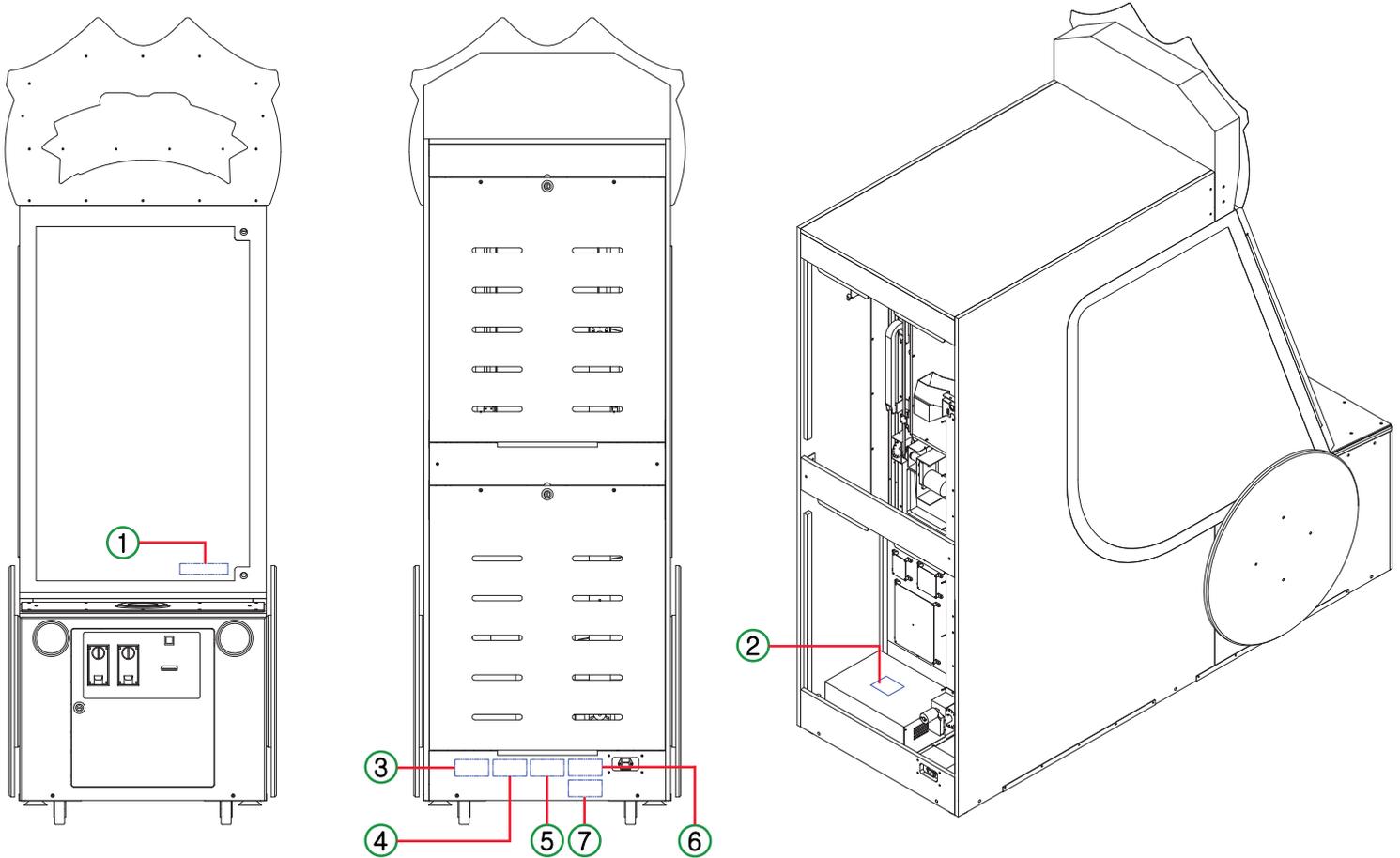
## 1-2. SPECIFICATION

|                               |  |
|-------------------------------|--|
| DIMENSION (W x D x H)         | 948 x 2027 x 2410 (mm)                             |
| PACKING DIMENSION (W x D x H) | 850 x 2150 x 2260 (mm)                             |
| WEIGHT (kg)                   | 282kg [ WEIGHT INCLUDING : 326 kg ]<br>PACKAGING ] |
| VOLTAGE                       | AC 120V  |
| FREQUENCY RANGE               | 60Hz   |
| CONSUMPTION                   | 230 W  |
| CERTIFICATION                 | -  |

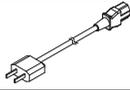
### 1-3. NAME OF PARTS



## 1-4. STICKER LOCATION



## 1-5. COMPONENTS

| NO. | PART NAME     | SPEC.  | QTY |
|-----|---------------|--|-----|
| 1   | AC POWER CORD | -           | 1   |
| 2   | BALL          | -           | 10  |
| 3   | KEY           | 6001, 7001  | 2   |
| 4   | BOLT          | M6 x 20L    | 5   |
| 5   | WRENCH        | 2.5mm, 4mm  | 2   |
| 6   | MANUAL        | -           | 1   |

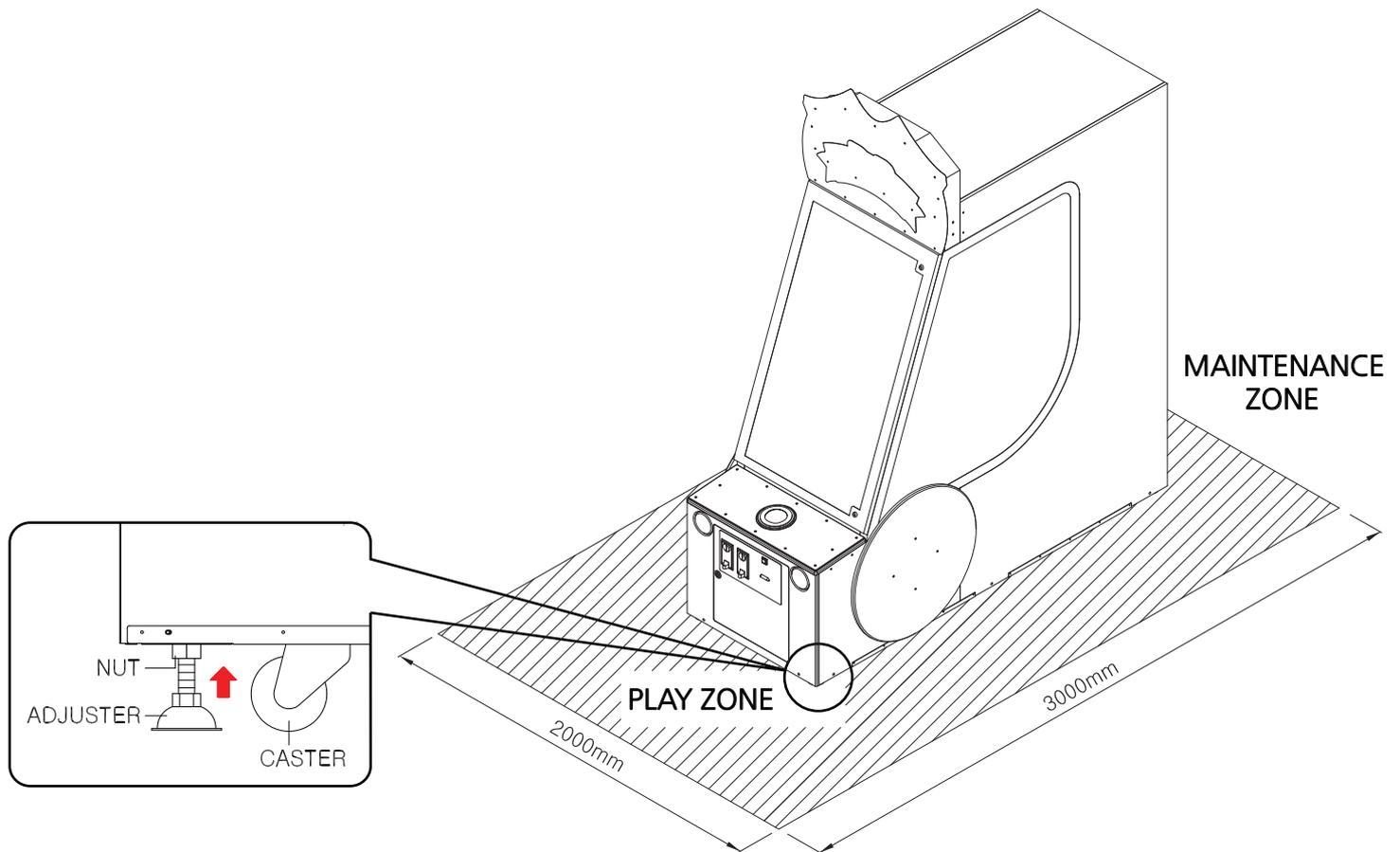
## 2. INSTALLATION

### 2-1. INSTALLATION SPACE

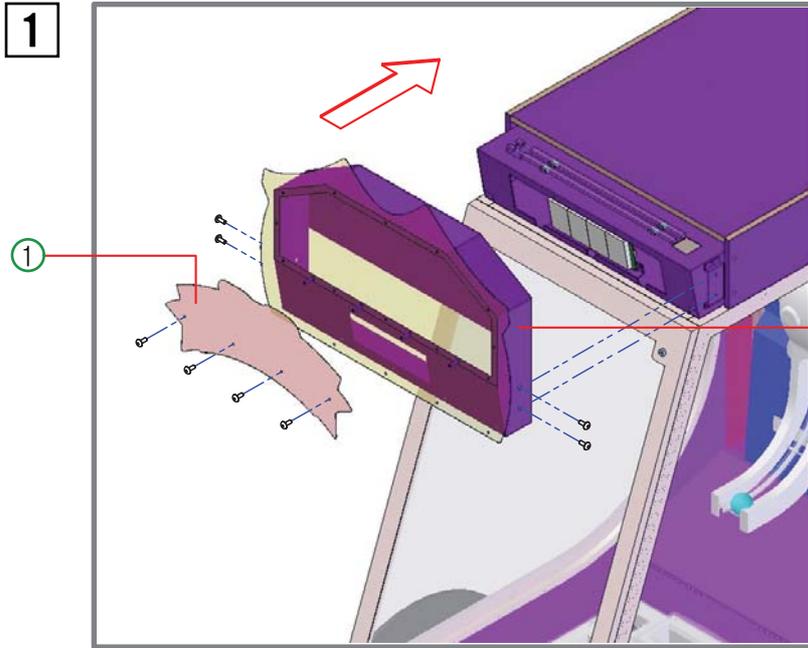
- Need to have installation place.  
Maintenance Zone & Play zone should have at least 2000mm x 3000mm each.

#### IMPORTANT

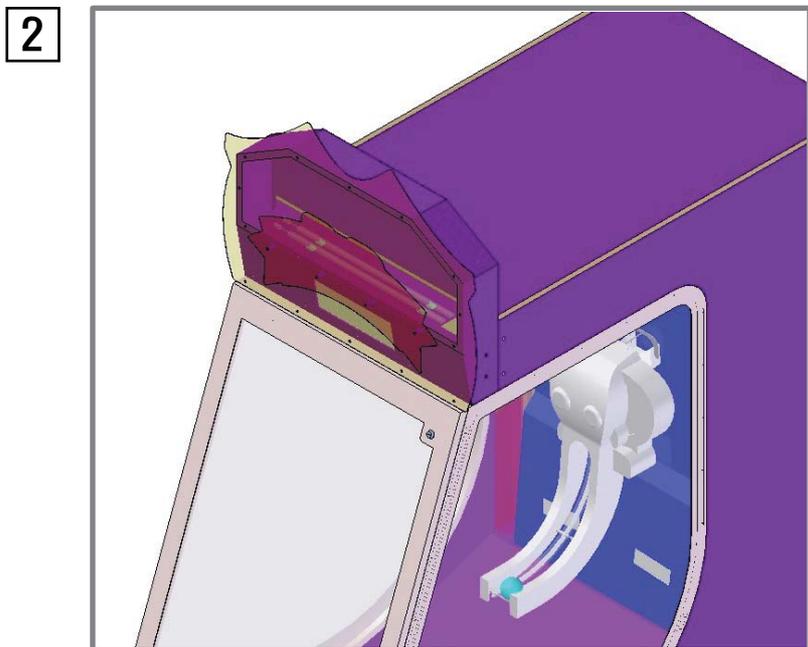
- Once you set up the machine with required game-play area, when installing this product, set the 4 leg levelers evenly on the floor and make sure that the product is installed stably in a horizontal position. Otherwise the set winning percentage can be twisted.



## 2-2. HOW TO INSTALL

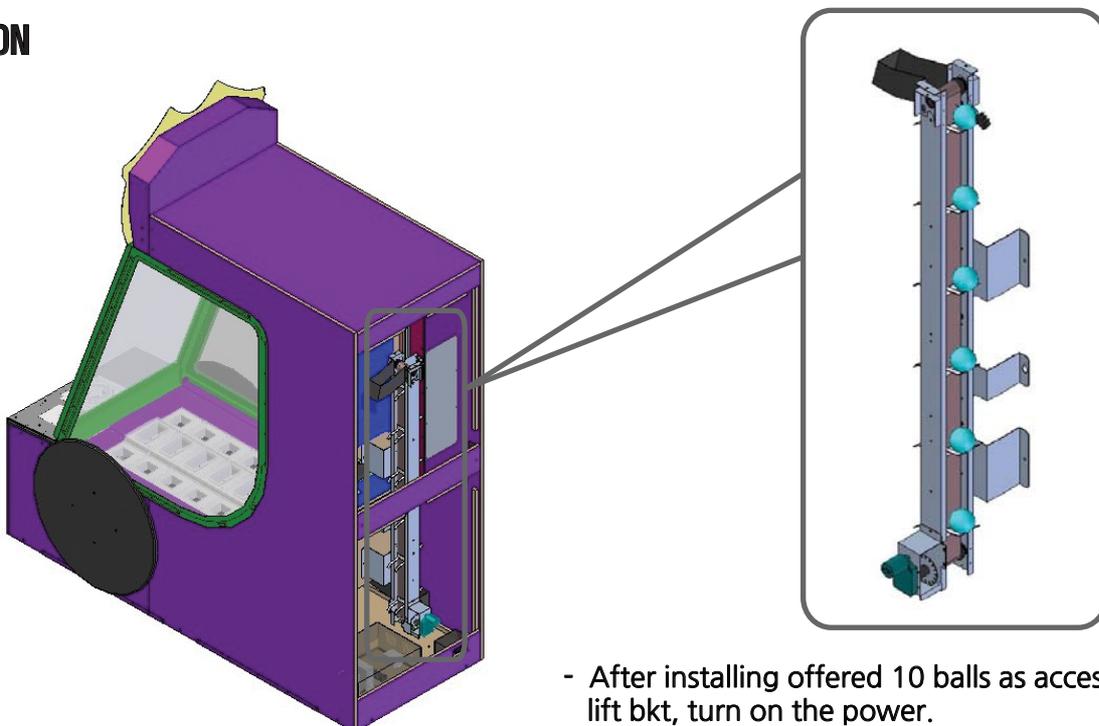


- After assembling ① BILLBOARD ACRYL WITH BILLBOARD FRAME, [M4bolts, 4 places] Combine ② BILLBOARD FRAME ASS'Y With ③ BILLBOARD INNER FRAME. [M6bolts, 4 places]



- You complete it like picture.

### \* CAUTION



- After installing offered 10 balls as accessories in elevator lift bkt, turn on the power.

### 3. GAME CHARACTERISTICS

---

- 3-1. One Button action, simple to play!
- 3-2. Multiple bonus features and shining LED light effects!
- 3-3. Gorgeous circus themed cabinet and realistic jungle sounds add to the players' excitement!

### 4. HOW TO PLAY

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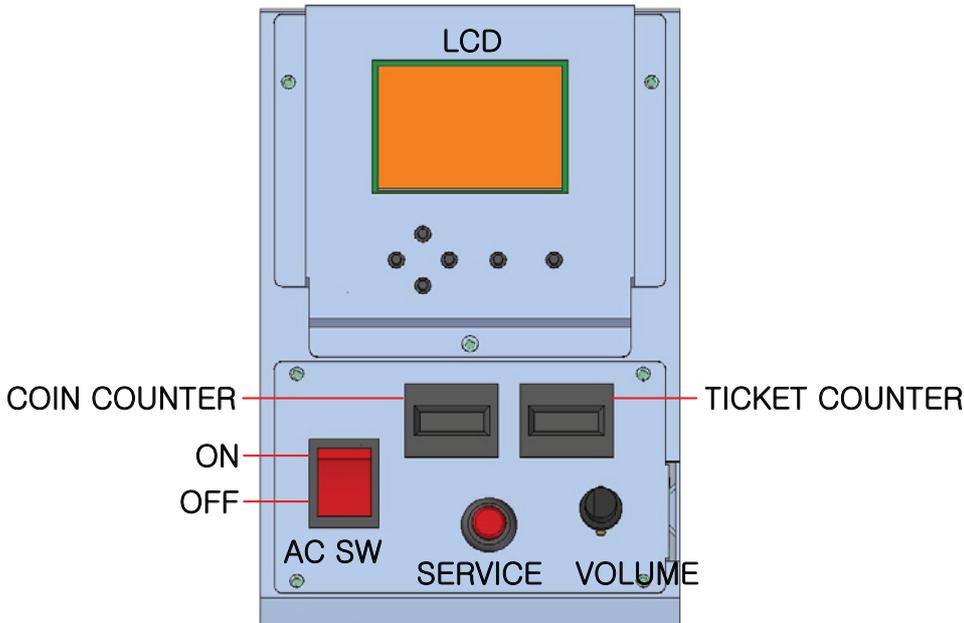
- 4-1. After coin inserting, elephant head moves up and down.
- 4-2. At this time, push the ball drop button, elephant head stop and release ball from elephant nose.
- 4-3. Of 15hole, distributed ticket in the successive hole is dispensed.
- 4-4. Of 15hole, super bonus hole dispense displayed ticket in the billboard fnd, bonus ball is eventhall.
  - \* 3 ball is released from elephant nose automatically in the event game.  
Automatically released 3balls dispense distributed ticket in the successive all hole.

# 5. SETUP SETTINGS

## 5-1. MACHINE SETUP

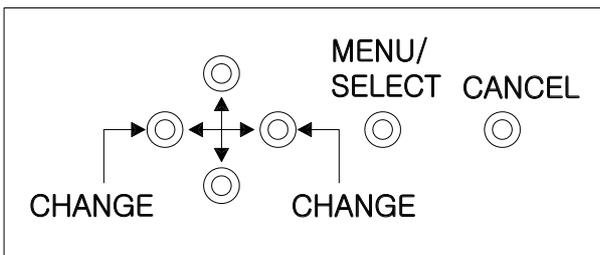
### 1. HOW TO ENTER SETUP MENU

- 1 There is "Control panel" inside cabinet. User may set any setting using following.



[ CONTROL PANEL ]

### 2. SETUP BUTTON LAYOUT



- 1) [ ↑ ↓ ] Up/Down Key : Menu Up/Down move
- 2) [ ← → ] Left/Right Key : Set value Left/Right change
- 3) MENU/SELECT key : Set up Menu mode, Select perform
- 4) CANCEL key : Exit

### [ OPERATION MENU ]

| PUSH MENU BUTTON . [SELECT BUTTON: ACCESS] |                              |
|--|------------------------------|
| #OPERATING OPTIONS#                        |                              |
| PROGRAM SETTINGS                           | SETUP MODE                   |
| CLEAR MODE                                 | CLEAR MODE                   |
| BOOKKEEPING DATA                           | BOOKKEEPING                  |
| FACTORY SETTING                            | INITIALIZING FACTORY SETTING |
| TEST MODE                                  | TEST MODE                    |
| EXIT                                       | EXIT TO GAME                 |

## 5-2. SETUP MODE

| PROGRAM SETTINGS |        |   |   |
|------------------|--------|---|---|
| LCD DISPLAY      |        | DESCRIPTION   | RANGE   |
| ★ CREDIT/COIN    | 1/1    | COIN PER CREDIT.  | FREE, 1/1, 1/2, 1/3, 1/4, 1/5<br>1/6, 1/7, 1/8, 1/9, 1/10,<br>2/1, 3/1, 4/1, 5/1  |
| ★ GAME TIME      | 30     | GAME PLAY TIME  | 5 ~ 100 (SECOND)  |
| ★ BONUS BALLS    | 3      | BALL NUMBERS TO DISPENSE FOR BONUS BALLS<br>(IF YOU SET IN "OFF", DON'T USE BONUS BALL EVENT)                             | "OFF", 1 ~ 10   |
| ★ SCORE TYPE     | CEC    | SETTING OF GOALIN HOLE SCORE DISPENSATION KIND<br><b>TYPE: 1 ~ 14 SET UP</b><br><b>[SEPARATION #2] Ref to SCORE TYPE.</b> | NO SETTING CHANGE.  |
| ★ SCORE DETAIL   | =>     | DETAIL SETTING OF GOALIN HOLE SCORE.<br><b>[SEPARATION #1] SCORE DETAIL SETUP REFERANCE.</b>                              | SET EACH GOALIN HOLE SEPARATELY<br>IF VALUE IS CHANGED IN HERE, 'USER' WORD IS DISPLAYED IN FRONT OF SCORE TYPE SETTING VALUE |
| ★ S-BONUS VALUE  | 100    | SUPER BONUS INITIAL VALUE.  | CHANGEABLE FROM 10 TO S-BONUS LIMIT VALUE<br>(10 unit increasing)   |
| ★ S-BONUS LIMIT  | 500    | Super Bonus MAXIMUM VALUE   | CHANGEABLE FROM S-BONUS VALUE TO 9999 VALUE<br>(10 unit increasing)   |
| ★ S-B INCREMENT  | 0      | INCREMENT VALUE PER SUPER BONUS GAME  | 0 ~ 50<br>(1 unit increasing)   |
| DIFFICULTY       | NORMAL | SETTING OF GAME LEVEL.<br>(TICKET CHANGING ABOUT +-1~2 TICKET IN AVERAGE TICKET ISSUE DISPENSATION)                       | EASY – EASY PROGRESS (+1~2)<br>NORMAL – NORMAL PROGRESS(0)<br>HARD – HARD PROGRESS (-1~2)                                     |
| MERCY TICKET     | 0      | MERCY TICKET DISPENSE NUMBERS<br>(NON-WINNING SCORE, DISPENSATION TICKET)   | 0 ~ 10<br>(1 unit increasing)   |
| TICKET/SCORE     | 1/1    | SETTING OF TICKET NUMBER PER SCORE<br>NONE: DON'T USE TICKET  | NONE, 1/1, 1/2,   |

|  |   |  |
|--|---|--|
| <b>ATTRACT VOLUME 50</b>   | DEMO SOUND VOLUME                                   | OFF , 10 ~ 100<br>(10 unit increasing)                                 |
| <b>ATTRACT ACTION 15</b>   | SETTING OF DEMO GAME<br>PROGRESS(ELEPHANT MOVEMENT) | OFF , 5, 10, 15, 20, 30, 40, 50, 60<br>(PER MINUTE)                    |
| <b>ELEPHANTSPEED NORM</b>  | SETTING OF ELEPHANT MOVEMENT.                       | SLOW, NORM(NORMAL), FAST   |
| <b>SAVE AND EXIT</b>   | SAVE AND EXIT                                       | PUSH SELECT BUTTON, PRACTICE<br>AFTER MOVEMENT [YES] or [NO]<br>CURSOR |
| <b>CANCEL AND EXIT</b>   | CANCEL AND EXIT                                     |  |
| <b>WARNING ★ if you change the value of setting marked by ★, All of the internal BOOKKEEPING DATA will be deleted.</b> |   |  |

\* SELECT "Score Detail" of SET UP MODE AND TO BELOWED SET UP BY SELECT BUTTON.

### #1 (SETUP MODE) SCORE DETAIL SET UP

SELECTED GOAL IN HOLE NUMBER DISPLAYS ON TIME FND SCREEN (H-01 ~ H-15)

SET UP SCORE DISPLAYS ON TICKET FND

THE LED COLOR OF GOAL IN HOLE IS WHITE

GOALIN HOLE 01 IS STARTED FROM LEFT SIDE OF START BUTTON (Front Door).

**[WARNING-1] BASIC GAME AVERAGE POINTS AND TICKET DISPENSE NUMBERS MAY VARY IF YOU CHANGE THE SET UP AS BELOW.**

| LCD DISPLAY    | DESCRIPTION   | RANGE   | DEFAULT          |
|----------------|---|---|------------------|
| Hole – 01      | GOAL-IN HOLE 01 SCORE SET UP  | 0 ~ 500   | 1                |
| Hole – 02      | DISPLAYS SUPER BONUS HOLE<br>( In case Hole No is changed on S-BONUS HOLE, display is also changed. ) |   | SUPER BONUS HOLE |
| Hole – 03      | GOAL-IN HOLE 03 SCORE SET UP  | 0 ~ 500   | 10               |
| Hole – 04      | GOAL-IN HOLE 04 SCORE SET UP  | 0 ~ 500   | 20               |
| Hole – 05      | DISPLAY BONUS BALL HOLE<br>( In case Hole No is changed on BONUS BALL HOLE, display is also changed.) |   | BONUS BALL HOLE  |
| Hole – 06      | GOAL-IN HOLE 06 SCORE SET UP  | 0 ~ 500   | 2                |
| Hole – 07      | GOAL-IN HOLE 07 SCORE SET UP  | 0 ~ 500   | 3                |
| Hole – 08      | GOAL-IN HOLE 08 SCORE SET UP  | 0 ~ 2000  | 7                |
| Hole – 09      | GOAL-IN HOLE 09 SCORE SET UP  | 0 ~ 500   | 3                |
| Hole – 10      | GOAL-IN HOLE 10 SCORE SET UP  | 0 ~ 500   | 2                |
| Hole – 11      | GOAL-IN HOLE 11 SCORE SET UP  | 0 ~ 2000  | 5                |
| Hole – 12      | GOAL-IN HOLE 12 SCORE SET UP  | 0 ~ 500   | 2                |
| Hole – 13      | GOAL-IN HOLE 13 SCORE SET UP  | 0 ~ 500   | 1                |
| Hole – 14      | GOAL-IN HOLE 14 SCORE SET UP  | 0 ~ 2000  | 3                |
| Hole – 15      | GOAL-IN HOLE 15 SCORE SET UP  | 0 ~ 500   | 1                |
| BONUSBALL HOLE | SETTING OF BONUS BALL EVENT   | "None" : DO NOT USE<br>SELECT AMONG THE 05,<br>08, 11, 14 HOLE NUMBER | 05 (HOLE)        |
| S-BONUS HOLE   | SETTING OF SUPER BONUS BALL EVENT   | USE SELECT AMONG THE<br>02, 05 HOLE NUMBER                            | 02 (HOLE)        |

|                 |  |  |
|-----------------|--|--|
| SAVE AND EXIT   | SAVE AND EXIT<br><b>(IF YOU SAVE PROGRAM SETTING, YOU CAN SAVE VALUE TOGETHER)</b> | PUSH SELECT BUTTON, PRACTICE AFTER MOVEMENT [YES] or [NO] CURSOR |
| CANCEL AND EXIT | CANCEL AND EXIT  |  |

### CLEAR MODE

- IF YOU DELETE GAME DATA, YOU CAN SAVE GAME SETTING VALUE.

| LCD DISPLAY   | DESCRIPTION                                      | RANGE  |
|---------------|--|--|
| CLEAR TICKETS | CLEAR TICKETS                                    | PUSH SELECT BUTTON, PRACTICE AFTER MOVEMENT [YES] or [NO] CURSOR |
| CLEAR CREDITS | CLEAR CREDITS AND BALLS                          |  |
| CLEAR DATA    | CLEAR GAME-DATA<br>(GAME SETTING VALUE IS SAVED) |  |
| EXIT          | EXIT   |  |

### BOOKKEEPING DATA

| LCD DISPLAY  | DESCRIPTION  |
|--|--|
| == BOOKKEEPING ==<br>GAMES<br>TICKETS<br>AVERAGE                           | GAME INFO DISPLAY<br>. GAMES : TOTAL GAME PLAYED NUMBERS<br>. TICKETS : TOTAL DISPENSED TICKETS NUMBERS<br>. AVERAGE : AVERAGE DISPENSED TICKET NUMBER PER GAME  |
| == TOTAL CREDITS ==<br>COINS<br>SERVICE<br>CREDITS                         | TOTAL CREDIT PLAY INFO DISPLAY<br>. TOAL INSERTED COINS DISPLAY<br>. TOTAL SERVICE BUTTON TIMES DISPLAY<br>. TOTAL CREDIT DISPLAY  |
| == MULTI BONUS ==<br>EVENT<br>SCORE  | MULTI BONUS PLAY INFO DISPLAY<br>. MULTI BONUS TIMES DISPLAY<br>. TOTAL ACQUIRED SCORES ON MULTIBONUS DISPLAY  |
| == SUPER BONUS ==<br>SUCCESS<br>SCORE<br>DIRECT                            | SUPER BONUS PLAY INFO DISPLAY<br>. SUPER BONUS CHALLENGED TIMES DISPLAY<br>. SUPER BONUS SUCCEED TIMES DISPLAY<br>. NUMBER OF DIRECT GOALIN BALL IN THE SUPER BONUS GOALIN HOLE<br>(AFTER SHOOTING VALL, GOALIN IN THE 1 SECOND) |
| ** VER INFO USA-C **<br>V _ _ _ _ _<br>RUNTIME h:mm:ss<br>PLAYTIME h:mm:ss | VERSION & GAME OPERATING HOUR INFORMATION DISPLAY<br>. VERSION INFO<br>TOTAL EQUIPMENT POWER ON STATUS TIME DISPLAY(hour:min:sec)<br>. TOTAL GAME PLAY TIME DISPLAY (hour:min:sec)   |
| CANCEL BUTTON : EXIT   |  |

**FACTORY-SETTINGS** INITIALIZING TO FACTORY SETTING VALUE (ALL DATA CLEAR AND SET UP TO THE BASIC DATA VALUE ON GAME SET-UP)

| LCD DISPLAY (PRACTICE)  | LCD DISPLAY (PRACTICE)   |
|---|--|
| <p><b>FACTORY-SETTING</b></p> <p>ARE YOU SURE?</p> <p>[YES] or [NO]</p> <p>MOVE CURSOR AND PRACTICE</p> | <p><b>FACTORY-SETTING</b></p> <p>[YES] or [NO]</p> <p>MOVE CURSOR AND PRACTICE</p> |



### 5-3. TEST MODE

| TEST MODE                      |   |  |  |
|--------------------------------|---|--|--|
| LCD DISPLAY                    | SET VALUE   | DESCRIPTION  |  |
| INPUT TEST                     | [=>]  | ACCESS TO INPUT TEST MODE  |  |
| FND & LAMP                     | LAMP, FND, LED MOVING TEST  |  |  |
|                                | "OFF"   | LAMP OFF   |  |
|                                | "ON"  | LAMP ON (THIS VALUE IS SAVED ON THE OTHER TEST MODE FOR YOUR REFERENCE.)   |  |
|                                | "STEP"  | LAMP   | ENTIRE ON, OFF BLINKING -> THE UP ON-> THE RIGHT ON -> THE LEFT ON-> TICKET 1 LAMP ON SEQUENCE REPETITION  |
|                                |   | FND  | ENTIRE ON, OFF BLINKING -> NUMBER COUNT 1111 ~ 9999 -> S-BONUE FND: 1111 / TICKETS FND : 2222 / TIME FND : 3333 / CREDIT FND : 44 SIGN SEQUENCE REPETITION |
|                                |   | LED  | ENTIRE ON, OFF BLINKING -> RED -> GREEN -> BLUE -> WHITE LIGHTING SEQUENCE REPETITION  |
| "ON/OFF"                       | ENTIRE ON, OFF REPETITION   |  |  |
| ELEPHANT (BALL DROP EQUIPMENT) | MOVEMENT TEST OF ELEPHANT SHOOTING BALL EQUIPMENT (IF YOU PUSH SELECT BUTTON WITHOUT SETTING ARTICLE CHANGE ON THE MOVE, IT IS STOP.)   |  |  |
|                                | "STOP"  | STOP   |  |
|                                | "MOVE"  | UP/DOWN REPETITION MOVE  |  |
|                                | "UP"  | MOVE TO UP-SIDE  |  |
|                                | "DONW"  | MOVE TO DOWN-SIDE  |  |
|                                | TIME FND SIGN : [0000] SHOW OPERATING HOUR UP TO Up, Down Limit S/W<br>TICKET FND SIGN: [0000] BALL SENSOR IN ORDER FROM LEFT, UP S/W, DOWN S/W, DISPLAY ENCODER SENSOR STATUS AS 0.1 |  |  |
| SOLENOID                       | TEST FOR SOLENOID MOVEMENT STATUS   |  |  |
|                                | "OFF"   | SOLENOID BASIC STATUS  |  |
|                                | "ON"  | SOLENOID PULLED SATUS  |  |
|                                | "WAIT"  | STANDING BY STATUS UNTIL NEXT ON IS POSSIBLE   |  |
|                                | TIME FND DISPLAY : AFTER SOLENOID OPERATING, WAITING HOUR COUNT TO NEXT OPERATING<br>TICKETS FND DISPLAY : SOLENOID OPERATING STATUS DISPLAY  |  |  |
| ELEVATOR                       | TEST FOR BALL ELEVATOR MOVENT   |  |  |
|                                | "OFF"   | BALL ELEVATOR STOP OR HOLD STATUS  |  |
|                                | "ON"  | BALL ELEVATOR MOVE<br><b>CAUTION! THERE IS A PLOBLEM ABOUT BALL JAMMED, IF OVER 2 BALL ARE CAME, IT OPERATE SOLENOID AUTOMATICALLY AND DISPENSE BALL.<br/>PLEASE MOVE ELEPHANT TO UP-SIDE IN ORDER TO CONTINUATIVE TEST.</b> |  |

|            |  |  |
|------------|--|--|
|            | TIME FND DISPLAY: [E0S0] ENCODER SENSOR FORM LEFT, UP-SIDE BALLS/W STATUS DISPLAY<br>TICKET FND DISPLAY: BALL ELEVATOR OPERATING STATUS DISPLAY<br>S-BONUS FND DISPLAY: UP-SIDE BALL S/W CHECKING HOUR INTERVAL DISPLAY                      |  |
| GOALIN IO  | GOAL IN IO BOARD & GOAL IN LED HOLE TEST   |  |
|            | "RESET"  | GOALIN IO BOARD BOOT AGAIN. AFTER BLINKING LED WHITE IT CHANGES TO Red, Green, Blue, Yellow, Cyan, Magenta, Black MODE.                            |
|            | "SENSOR"   | SENSOR TEST IT BLINK TO 1PEACE EACH AS LED Green COLOR IF IT RECOGNIZES SENSOR, IT REMAINS TO LED Red AND IF IT SEPARATE, IT DISPLAY LED ANMATION. |
|            | TIME FND DISPLAY : [u1.00] GOALIN IO BOARD FIRMWARE VIRSION DISPLAY<br>TICKETS FND DISPLAY: [0000] HEXADECIMAL OF GOIN HOLE SENSOR STATUS DISPLAY<br>S-BONUS FND DISPLAY: [n100] GOALIN IO BOARD AND COMMUNICATION STATUS RATE DISPLAY       |  |
| COIN       | "OFF", "ON"  | COIN MACHINE MOVEMENT (MOVEMENT STATUS AND INSERTED COUNT DISPLAY ON TIME, FICKET FND)   |
|            | TIME FND DISPLAY : COIN MACHINE 1 NUMBER, SENSOR STATUS CHECK COIN COUNT DISPLAY FROM LEFT<br>TICKETS FND DISPLAY: COIN MACHINE 2 NUMBER, SENSOR STATUS CHECK COIN COUNT DISPLAY FROM LEFT.<br>S-BONUS FND DISPLAY: OPERATING STATUS DISPLAY |  |
| TICKET     | "OFF", "ON"  | TEST FOR TICKET MOVEMNT ( BASIC 3 TICKETS)   |
|            | TIME FND DISPLAY: [b0s0] Empty BUTTON STATUS FROM LEFT, TICKET DISPENSATION SENSOR STATUS DISPLAY<br>TICKETS FND DISPLAY: DISPENSED TICKET COUNT 3, 2, 1 DISPLAY<br>S-BONUS FND DISPLAY: TICKET TEST OPERATING STATUS DISPLAY                |  |
| SOUND TEST | [=>]   | ACCESS TO SOUND TEST MODE  |
| EXIT       | EXT TO SETUP MODE  |  |

**TEST MODE -> INPUT TEST**

YOU CAN EXIT FROM Input Test IF YOU PUSH SELECT OR CANCEL BUTTON FOR MORE THAN 1 SECOND

| LCD DISPLAY          | STATUS   | DESCRIPTION                   |
|----------------------|--|-------------------------------|
| GAME BUTTON          | Off, On  | GAME BUTTON STATUS            |
| TICKET SENSOR        | Off, On  | TICKET DISPENSE SENSOR STATUS |
| TICKET BUTTON        | Off, On  | TICKET DISPENSE BUTTON STATUS |
| COIN 1 SENSOR        | Off, On  | COIN 1 SENSOR STATUS          |
| COIN 2 SENSOR        | Off, On  | COIN 2 SENSOR STATUS          |
| SETUP UP             | Off, On  | SETUP UP BUTTON STATUS        |
| SETUP DOWN           | Off, On  | SETUP DOWN BUTTON STATUS      |
| SETUP LEFT           | Off, On  | SETUP LEFT BUTTON STATUS      |
| SETUP RIGHT          | Off, On  | SETUP RIGHT BUTTON STATUS     |
| SETUP SELECT         | Off, On  | SETUP SELECT BUTTON STATUS    |
| SETUP CANCEL         | Off, On  | SETUP CANCEL BUTTON STATUS    |
| SERVICE BUTTON       | Off, On  | SETUP BUTTON STATUS           |
| 0 : 0000000000000000 | INNER SWITCH, SENSOR STATUS 0, 1 VALUE CONFIRM |                               |
| 1 : 0000000000000000 | 0 – NO INPUT                                   |                               |
| 7 : 0000000000000000 | 1 – INPUT EXIST                                |                               |

**TEST MODE -> SOUND TEST**

| LCD DISPLAY | SET VALUE             | DESCRIPTION   |
|-------------|-----------------------|---|
| TEST        | "Channel"             | THE VOICE OF One, Two, ~ Eight GENERATES CHANNEL BY CHANNEL |
|             | "BGM"                 | BGM GENERATING TEST   |
|             | "FX"                  | SOUND EFFECT GENERATING TEST                                |
|             | "VOC"                 | VOICE GENERATING TEST                                       |
| -EXIT-      | EXIT TO PREVIOUS MENU |   |

**EXIT**

EXIT TO PREVIOUS MENU (SETUP MODE) (EXIT MENU)

SELECT BUTTON : PERFORM

## 5-4. ERROR CODE

| Error Code | TIME Fnd Display | ErrorS  | DESCRIPTION   | REMEDY  |
|------------|------------------|---|---|---|
| E0-1       |                  | <b>SETUP LCD</b>                              | NO SET UP LCD RESPONSE  | SET UP LCD CHECK<br>(GAME PLAYS ON NORMAL STATUS)   |
| E0-2       |                  | <b>SYSTEM</b>                                 | FAILURE OF READING & WRITING<br>SAVED SET UP DATA MEMORY                                    | IF THE ERROR CONTINUES AFTER<br>POWER On, Off AGAIN, REPLACE THE<br>MAIN BOARD)   |
| E0-3       |                  |   | SAVED SET UP DATA PROBLEM   | ACCESS TO SET UP MODE AND CHECK<br>AND CONFIRM THE SET UP AND THEN<br>SAVE (IF THE ERRR CONTINUES,<br>REPLACE THE MAIN BOARD) |
| E0-4       |                  |   | FAILURE OF READING & WRITING<br>SAVED GAME DATA MEMORY                                      | IF THE ERROR CONTINUES AFTER<br>POWER On, Off AGAIN, REPLACE THE<br>TOP CPU BOARD)  |
| E1-1       |                  | <b>COIN<br/>MACHINE</b>                       | COIN 1 SENSOR SIGNAL EXIST  | CHECK THE COIN MACHINE 1 (COIN<br>SWITCH STATUS CHECK)  |
| E1-2       |                  |   | COIN 2 SENSOR SIGNAL EXIST  | CHECK THE COIN MACHINE 2 (COIN<br>SWITCH STATUS CHECK)  |
| E2-1       |                  | <b>GOALIN<br/>IO BOARD</b>                    | NO COMMUNICATION  | 1. IO BOARD STATUS INSPECTION. (LED<br>BLINKS)<br>2. INSPECT WIRES  |
| E2-2       |                  |   | NO GOALIN SENSOR INPUT<br>SIGNAL<br>(NO CONSECUTIVE GOALIN<br>3 TIMES SIGNAL IN A GAME)     | 1. BALL JAMMED INSPECTION<br>2. GOALIN SENSOR STATUS INSPECTION.  |
| E2-3       |                  |   | GOALIN SENSOR SIGNAL COME<br>CONTINUOUSLY   | 1. HARNESS INSPECTION..<br>2. GOALIN IO PCB SENSOR INSPECTION.  |
| E4-1       |                  | <b>BALL INSTALL<br/>SENSOR<br/>(SOLENOID)</b> | AFTER DISPENSING ELEVATOR<br>BALL, NO BALL INSTALLATION<br>SENSOR SIGNAL                    | 1. BALL INSTALLATION SENSOR<br>INSPECTION<br>2. BALL DISPENSATION INSPECTION.   |
| E4-2       |                  |   | AFTER SHOOTING BALL,<br>BALL INSTALLATION SIGNAL EXIST<br>CONTINUOUSLY..                    | 1. BALL INSTALLATION SENSOR<br>INSPECTION<br>2. SOLENOID OPERATING INSPECTION   |
| E5-1       |                  | <b>BALL DROP<br/>MOVING<br/>DEVICE</b>        | NO MOTOR OPERATING OR<br>NO ENCODER SENSOR SIGANL<br>HAVE A PROBLEM ABOUT<br>UP/DOWN SWITCH | 1. MOTOR OPERATING INSPECTION.<br>2. MOTOR ENCODER INSPECTION.<br>3. UP/DOWN SWITCH INSPECTION.                               |
| E5-2       |                  |   | HAVE A PROBLEM ABOUT<br>UP/DOWN SWITCH  | 1. MOTOR OPERATING INSPECTION.<br>2. UP RESTRICTION SWITCH<br>INSPECTION.   |
| E5-3       |                  |   | HAVE A PROBLEM ABOUT<br>DOWN RESTRICTION SWITCH   | 1. MOTOR OPERATING INSPECTION.<br>2. DOWN RESTRICTION SWITCH<br>INSPECTION.   |
| E5-4       |                  |   | UP/DOWM RESTRICTION SWITCH<br>SIGNAL EXIST AT THE SAME TIME                                 | UP/DOWN RESTRICTION SWITCH<br>INSPECTION.   |

|             |   |                     |   |  |
|-------------|---|---------------------|---|--|
| <b>E6-1</b> |  | <b>ELEVATOR</b>     | NO CHANGE ENCODER SIGNAL                      | 1. CHECK THE MOTOR OPERATING<br>2. CHECK THE ENCODER SENSOR STATUS       |
| <b>E6-2</b> |  |                     | NO SIGNAL OF UP-SIDE BALL SWITCH              | 1. CHECK THE BALL EXISTENCE<br>2. CHECK THE UP SWITCH STATUS             |
| <b>E6-3</b> |  |                     | UP-SIDE BALL SWITCH SIGNAL EXIST CONTINUOUSLY | 1. CHECK THE UP-SIDE BALL SWITCH<br>2. BELT TENSION CHECK(BELT ROTATION) |
| <b>Et-1</b> |  | <b>TICKET ERROR</b> | NO TICKET                                     | CHECK TICKETS OR MOVENET   |
| <b>Et-2</b> |  |                     | TICKET OBSTRUCTED                             | CHECK TICKET OBSTRUCTED OR DEEP SWITCH STATUS                            |

## 5-5. PAYOUT TABLE

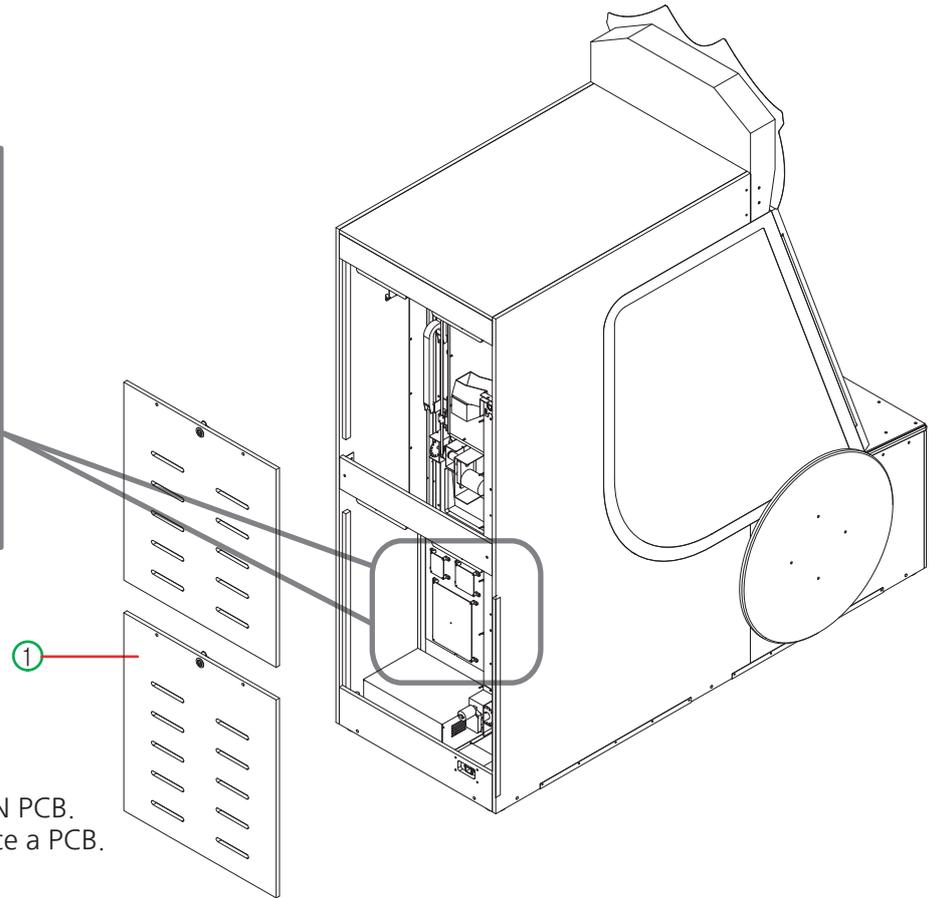
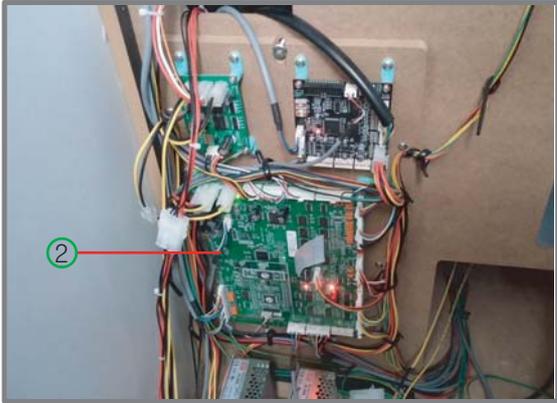
### [[SEPERATION #2] SCORE TYPE TABLE

STANDARD DISPENSATION TABLE OF AVERAGE TICKET ISSUE QUANTITY PER 1 GAME.  
 BONUS BALLS HOLE IS WON SCORE RANDOMLY AND BONUS BALLS EVENT PROGRESS  
 (BONUS BALLS EVENT – AUTOMATICALLY SETTING BALL DISPENSE AND WIN GOALIN HOLE SCORE)

| SCORE TYPE CEC |                        |   |
|----------------|------------------------|---|
| 1              | 3                      | 1 |
| 2              | 5                      | 2 |
| 3              | 7                      | 3 |
| 2              | Bonus Ball             | 2 |
| 1              | <b>SUPER<br/>BONUS</b> | 1 |
| FRONT BUTTON   |                        |   |

## 6. HOW TO REPLACE MAJOR COMPONENTS

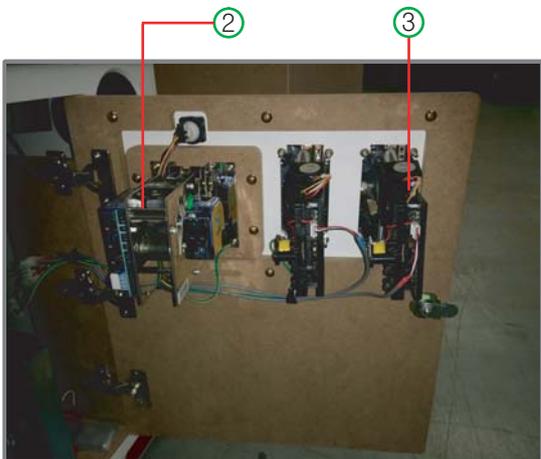
### 6-1) Replacing MAIN PCB



- (1) Open the ① FRONT DOOR, There is a ② MAIN PCB.  
After separate a connected connector, replace a PCB.
- (2) Reassemble them in reverse order.

| NO. | PART NAME      | SPEC. | CODE NO.    |
|-----|----------------|-------|-------------|
| ②   | MAIN PCB ASS'Y | -     | AICU0PCB001 |

### 6-2) Replacing COIN SELECTOR & TICKET DISPENSER

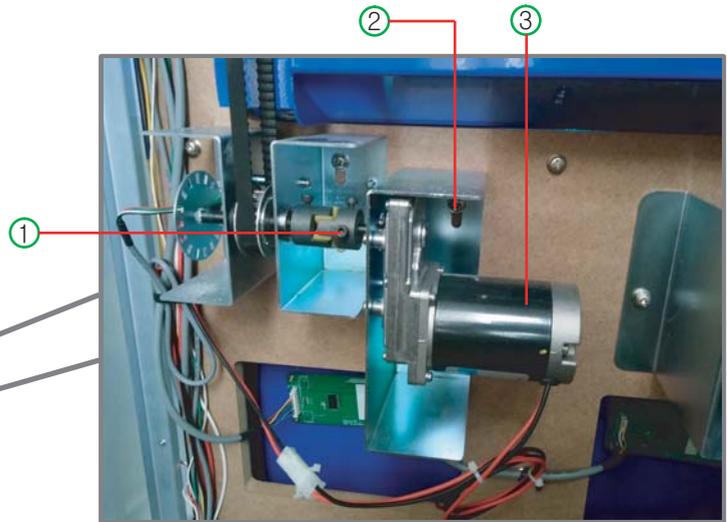
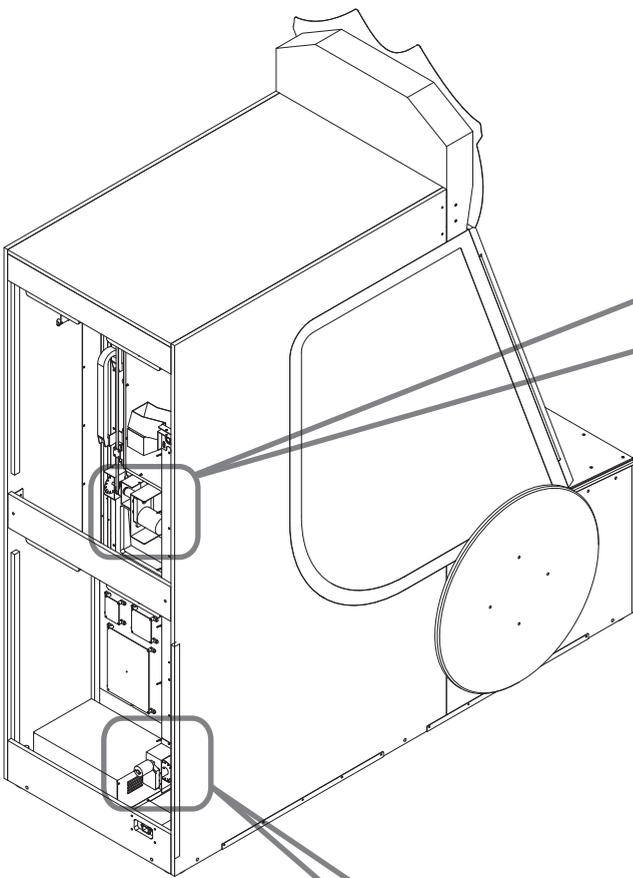


- (1) Open the ① FRONT DOOR.
- (2) Separate a connected connector.
- (3) Separate the bolt or bolt&nut. [M4bolts, 4places]
- (4) Reassemble them in reverse order after replacement.

| NO. | PART NAME        | SPEC.   | CODE NO.    |
|-----|------------------|---------|-------------|
| ②   | COIN SELECTOR    | TW-333  | MZZZ0COS045 |
| ③   | TICKET DISPENSER | TL-002H | MZZZ0TID007 |

## 6-3) Replacing MOTOR

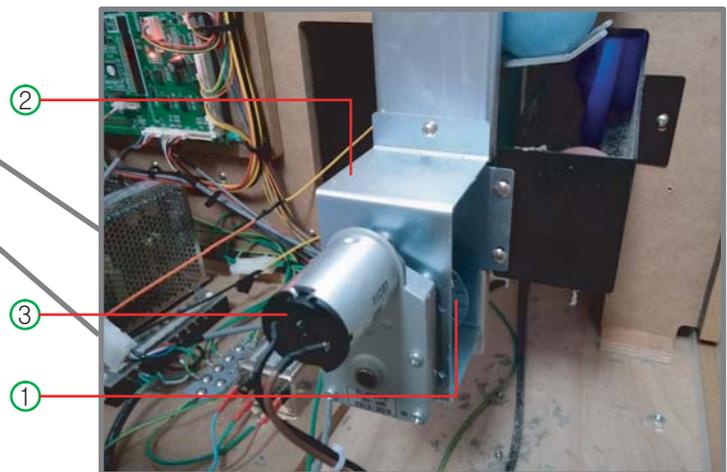
### (1) Replacing Y MOTOR



- (1) Open the rear door using the key.
- (2) Separate the connected connector with motor.
- (3) ① Separate the coupling using the wrench and,
- (4) ② Separate the Y MOTOR part ass'y [M6bolts, 2places]
- (5) ③ Separate the connected connector with MOTOR ass'y, after replacing, assembles in reverse order. [M4bolts, 4places]

| NO. | PART NAME | SPEC.            | CODE NO.    |
|-----|-----------|------------------|-------------|
| ③   | MOTOR     | KGY-060-K6DG15N1 | MZZZ0MOT083 |

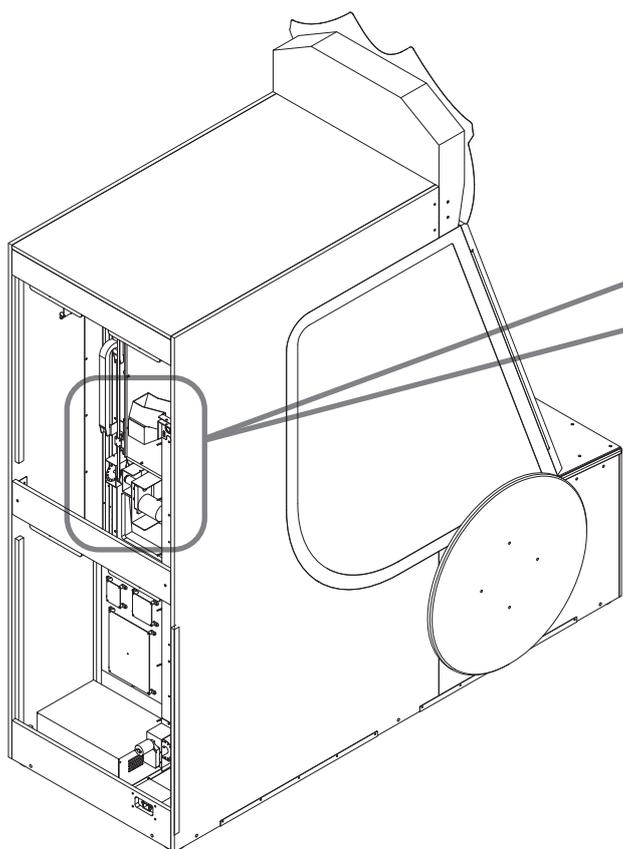
### (2) Replacing ELEVATOR MOTOR



- (1) Separate the connected connector with MOTOR,
- (2) ① Separate the coupling using the wrench and
- (3) ② Separate the ELEVATOR MOTOR BKT. [M4bolts, 2places]
- (4) ③ After MOTOR replacing, assemble in reverse order. [M4bolts, 4places]

| NO. | PART NAME | SPEC.            | CODE NO.    |
|-----|-----------|------------------|-------------|
| ③   | MOTOR     | KGE-3448-050-12V | MZZZ0MOT084 |

## 6-4) Replacing SOLENOID



- (1) Open the rear ① DOOR using the key.
- (2) ② Separate the Y MOVING BASE COVER BKT. [M4bolts, 8places]
- (3) ③ Separate the connected connector with SOLENOID.
- (4) ④ After separating captive bolt SOLENOID BASE BKT. [M4bolts, 4places]
- (5) Separate the SOLENOID [M4bolts, 4places]
- (6) After replacing, assemble in reverse order.

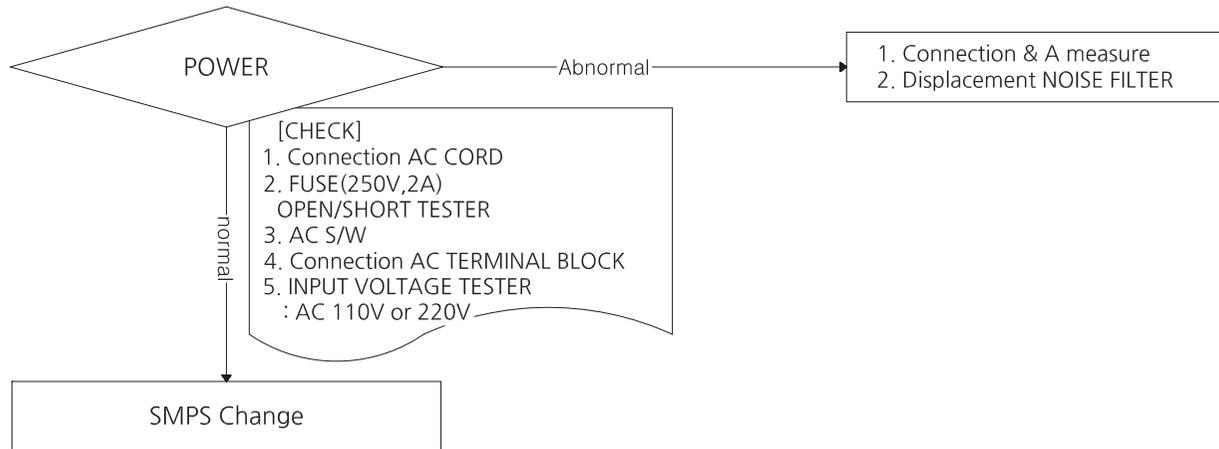
| NO. | PART NAME        | SPEC.    | CODE NO.    |
|-----|------------------|----------|-------------|
| ③   | TUBULAR SOLENOID | M 32022L | AREE0ASS001 |

\* Reassemble them in reverse order and check performance of the game.

## 7. TROUBLESHOOTING

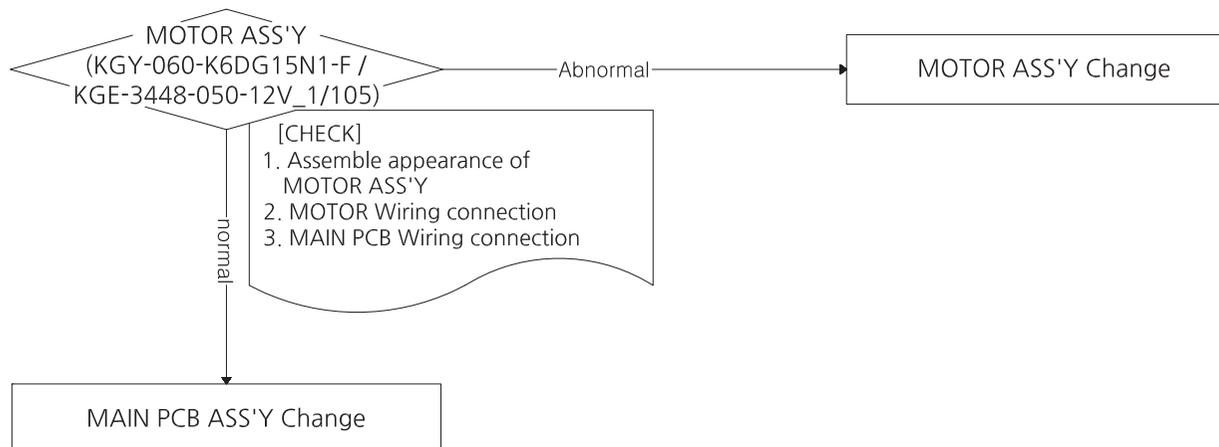
### 7-1. IN CASE OF POWER FAILURE

\*Common: Check the input voltage, check wiring



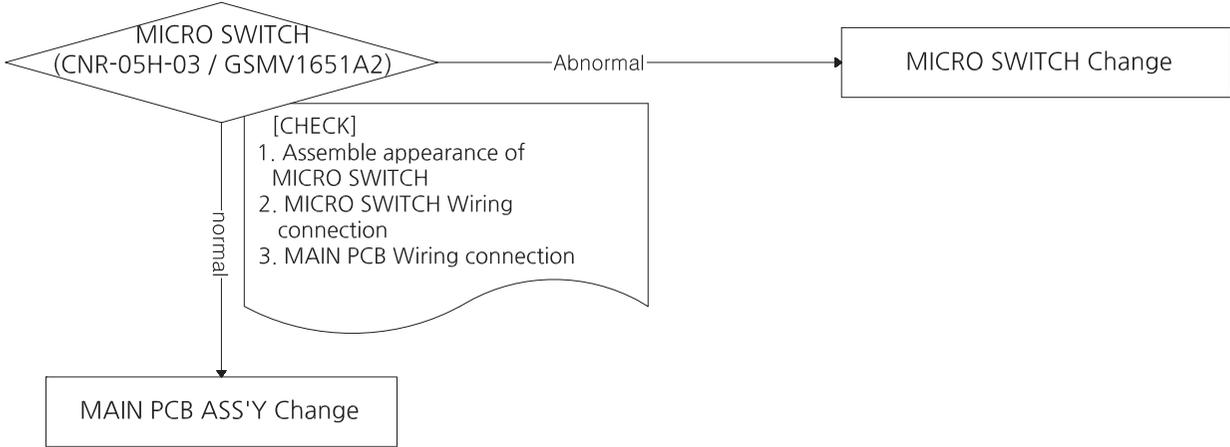
### 7-2. MOTOR ERROR

\*Common: Check the input voltage, check wiring



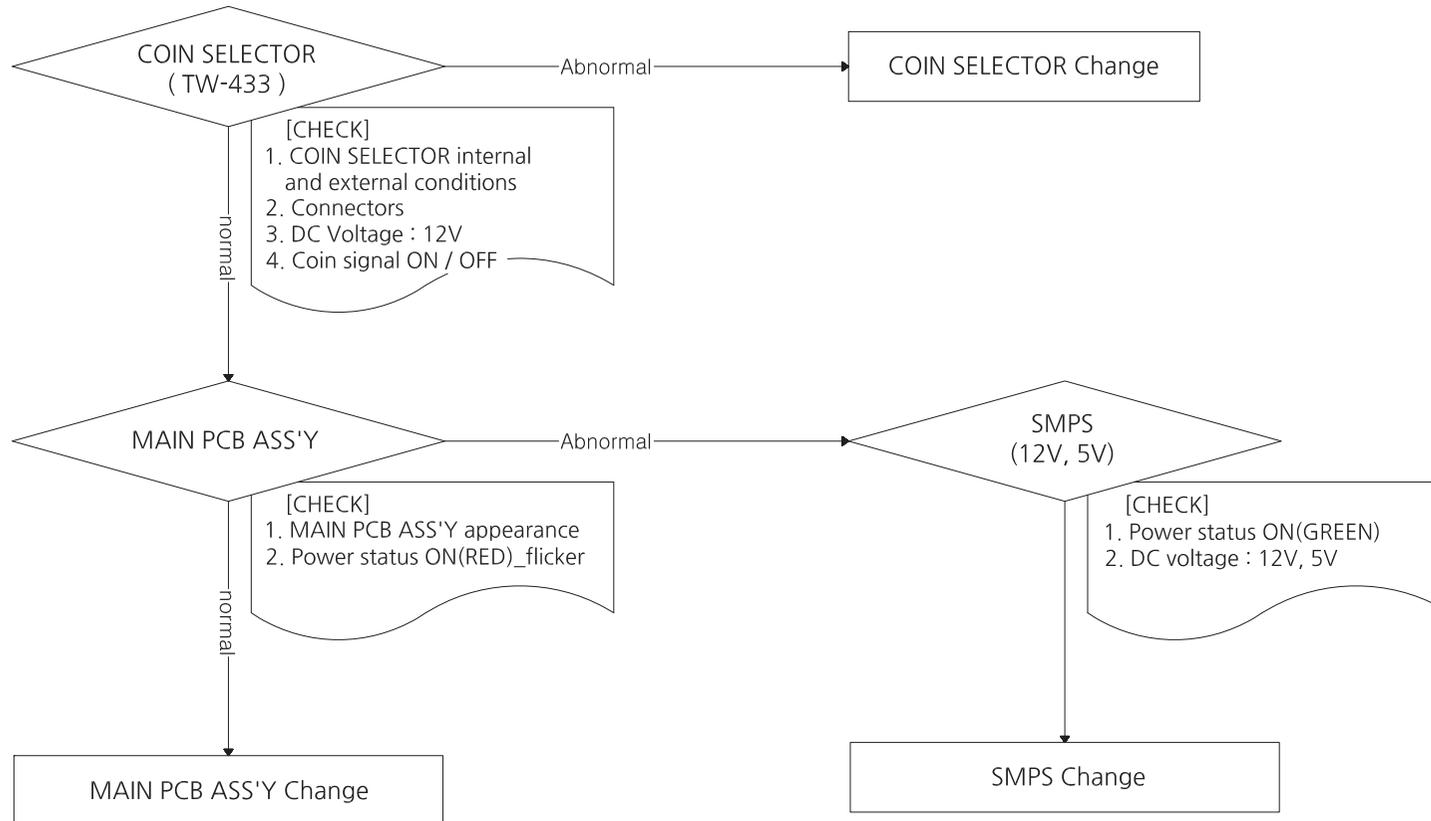
# 7-3. MICRO SWITCH ERROR

\*Common: Check the input voltage, check wiring



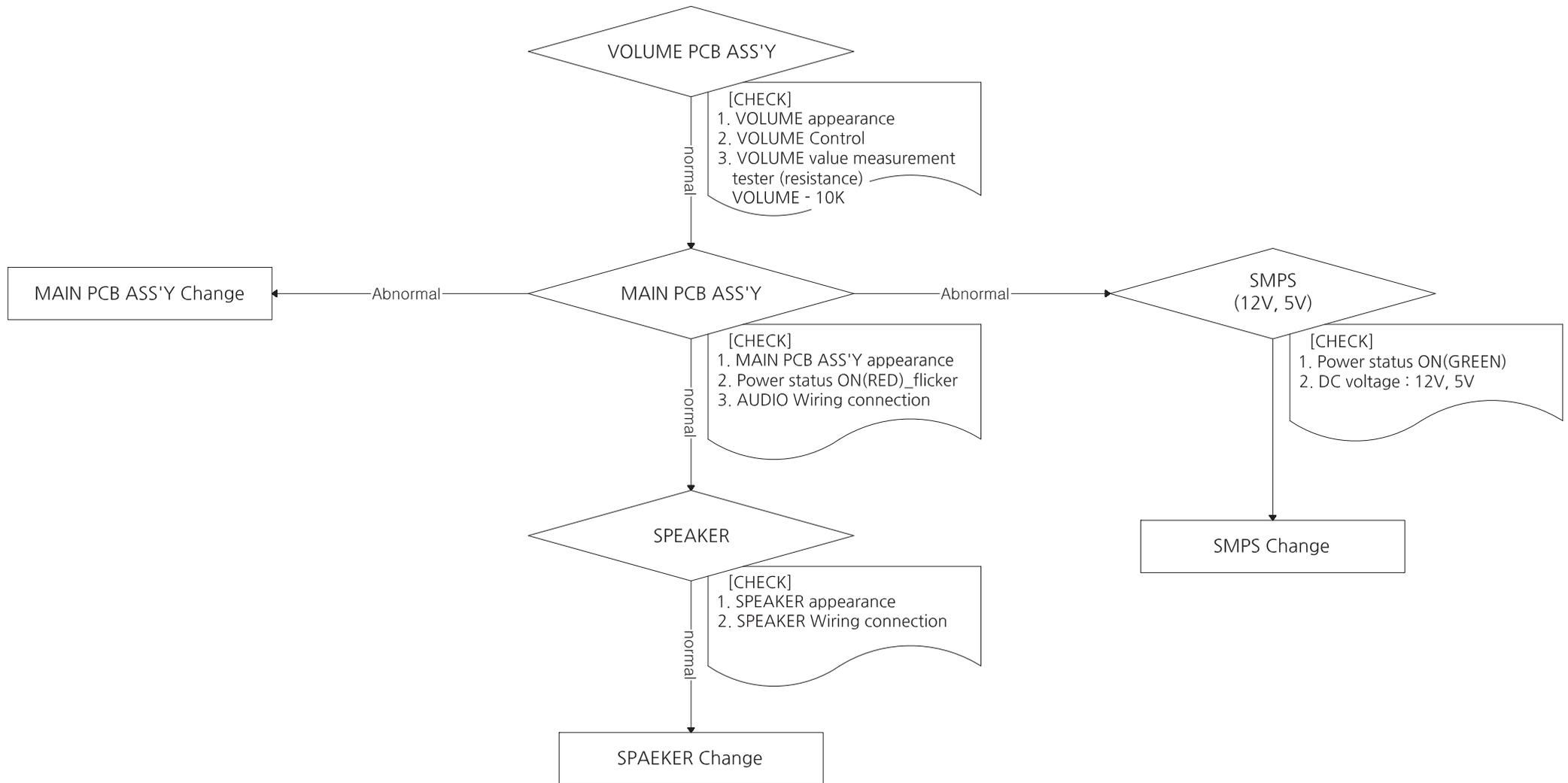
## 7-4. COIN SELECTOR ERROR

\*Common: Check the input voltage, check wiring



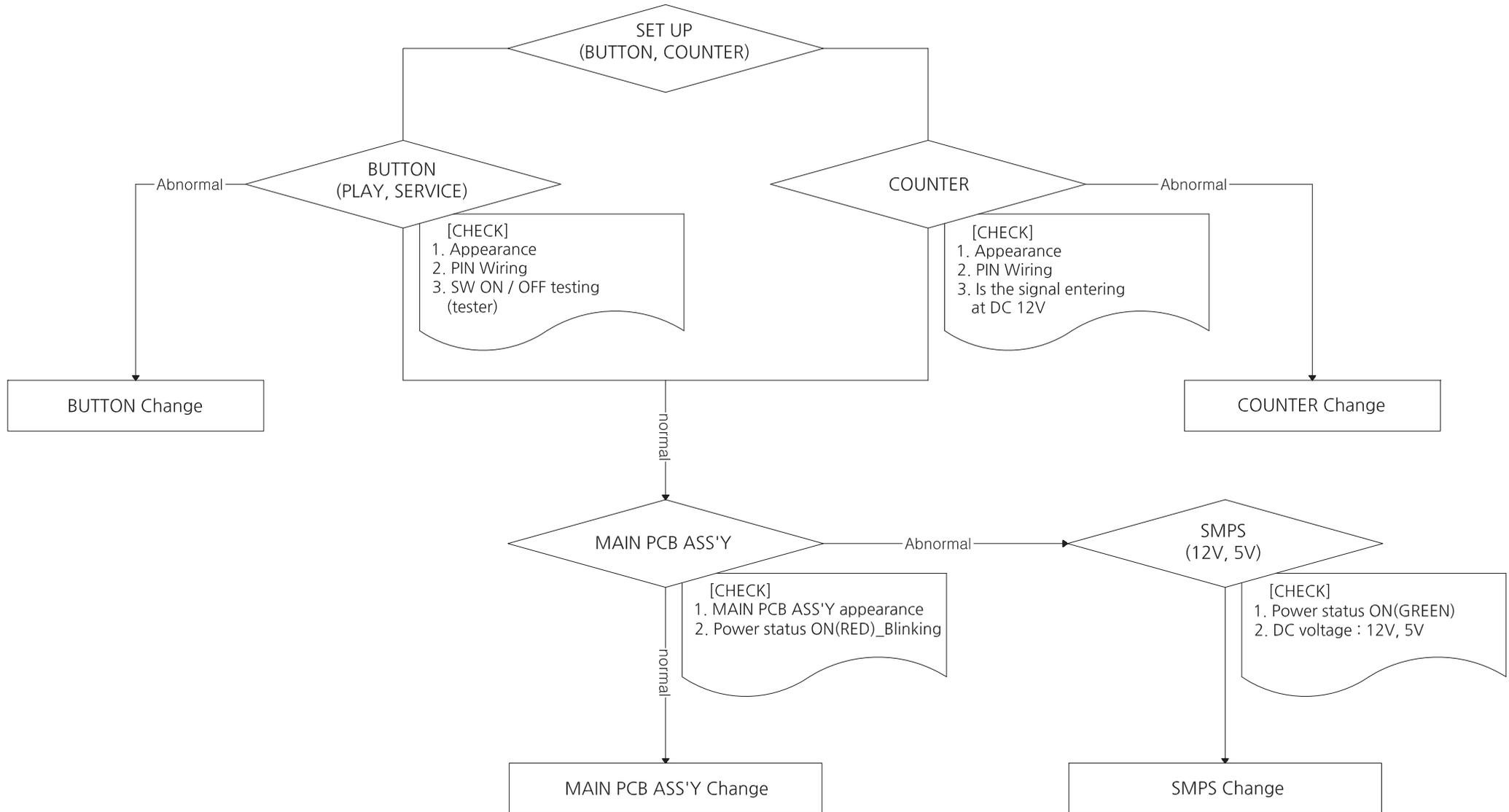
# 7-5. SOUND ERROR

\*Common: Check the input voltage, check wiring



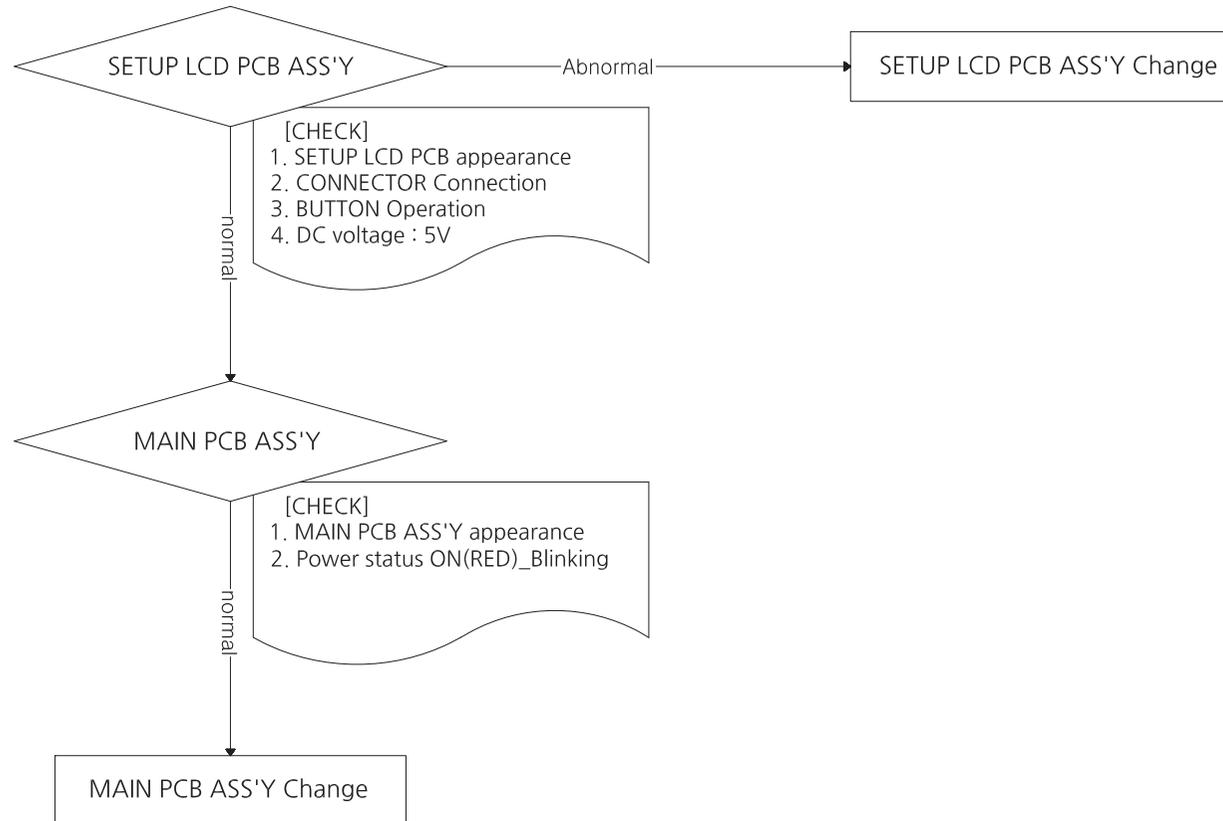
## 7-6. BUTTON & COUNTER ERROR

\*Common: Check the input voltage, check wiring



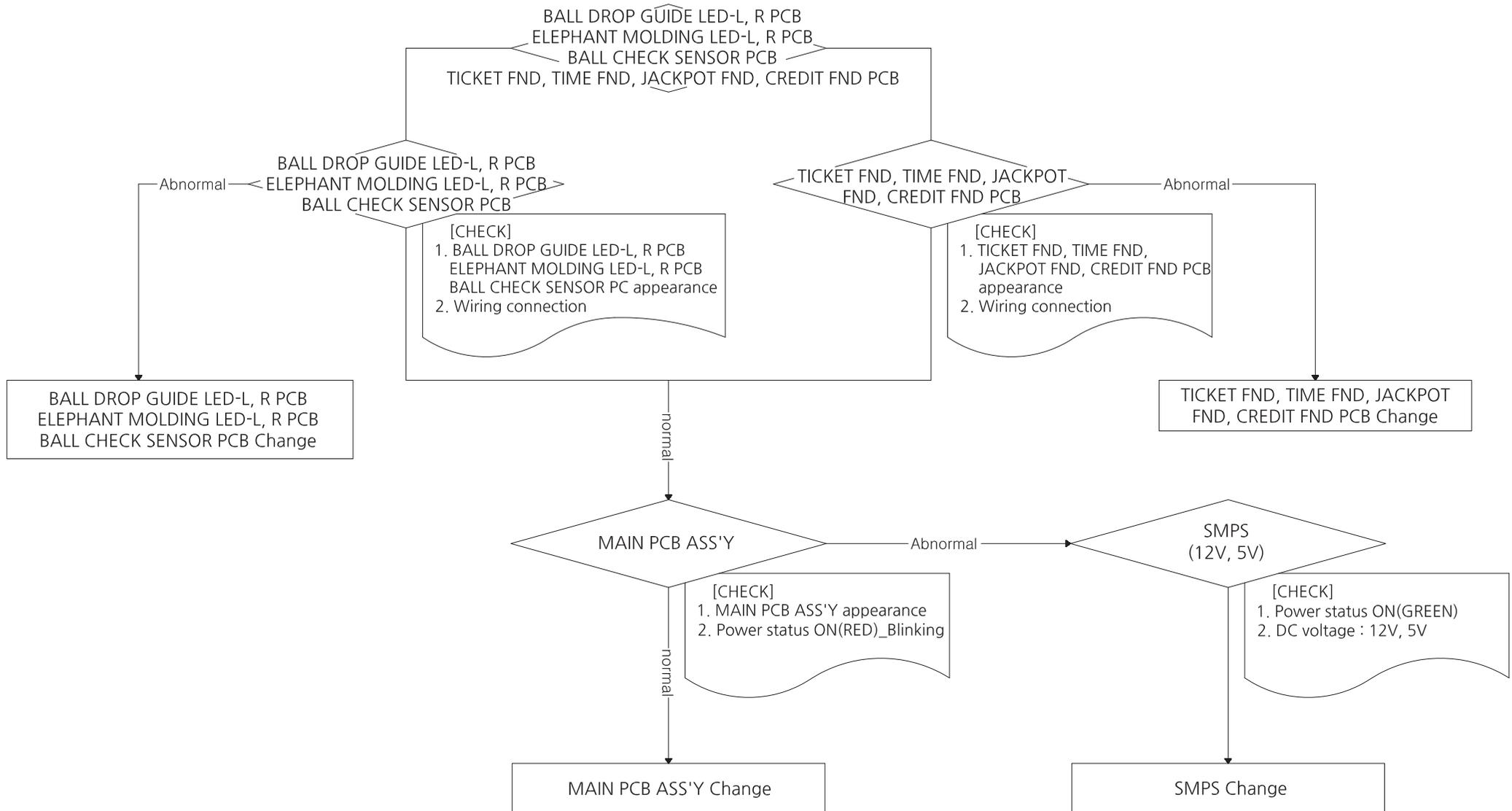
## 7-7. SETUP LCD PCB ERROR

\*Common: Check the input voltage, check wiring



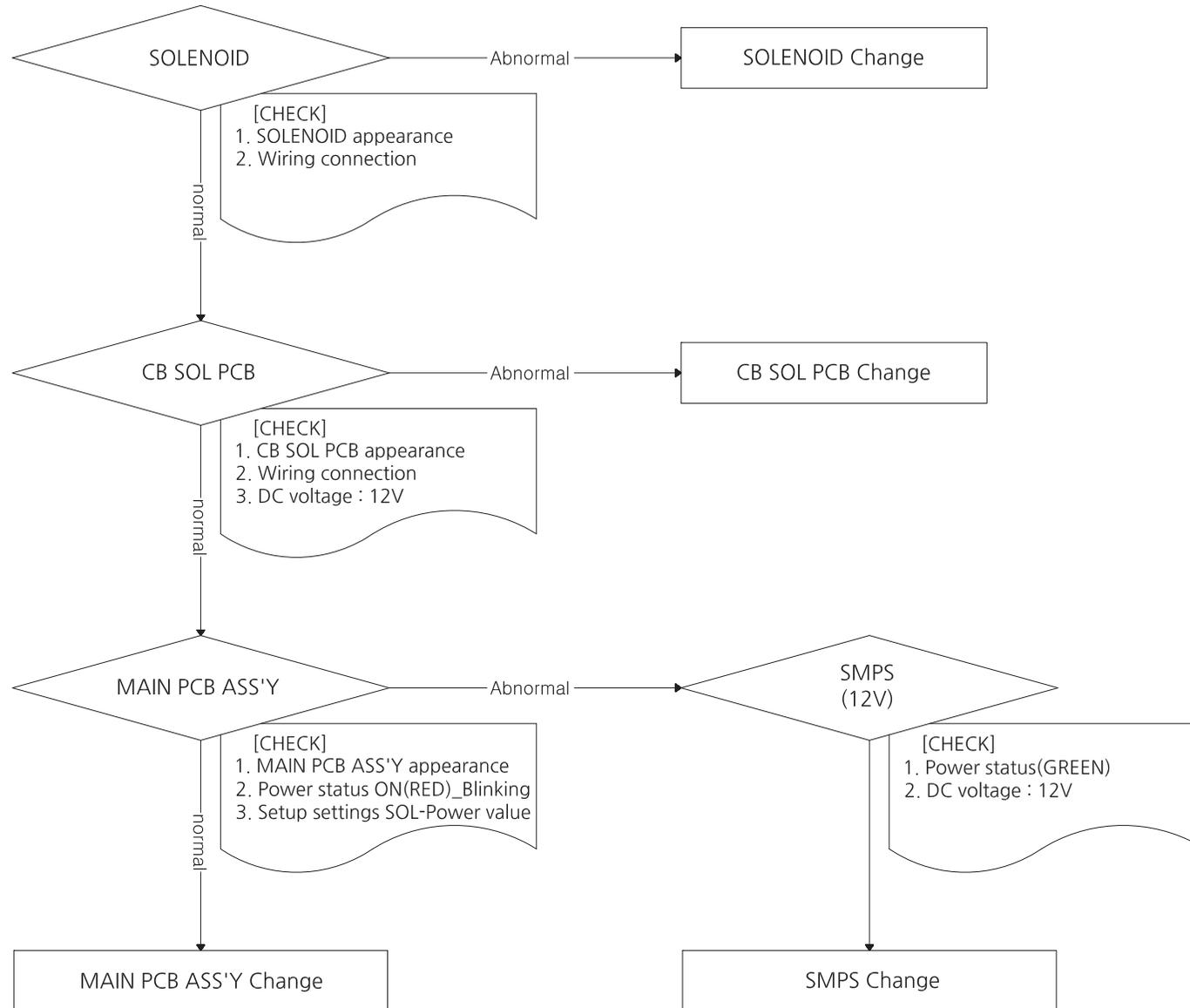
# 7-8. BALL DROP GUIDE LED-L, R PCB / ELEPHANT MOLDING LED-L, R PCB / BALL CHECK SENSOR PCB / TICKET FND, TIME FND, JACKPOT FND, CREDIT FND PCB ERROR

\*Common: Check the input voltage, check wiring



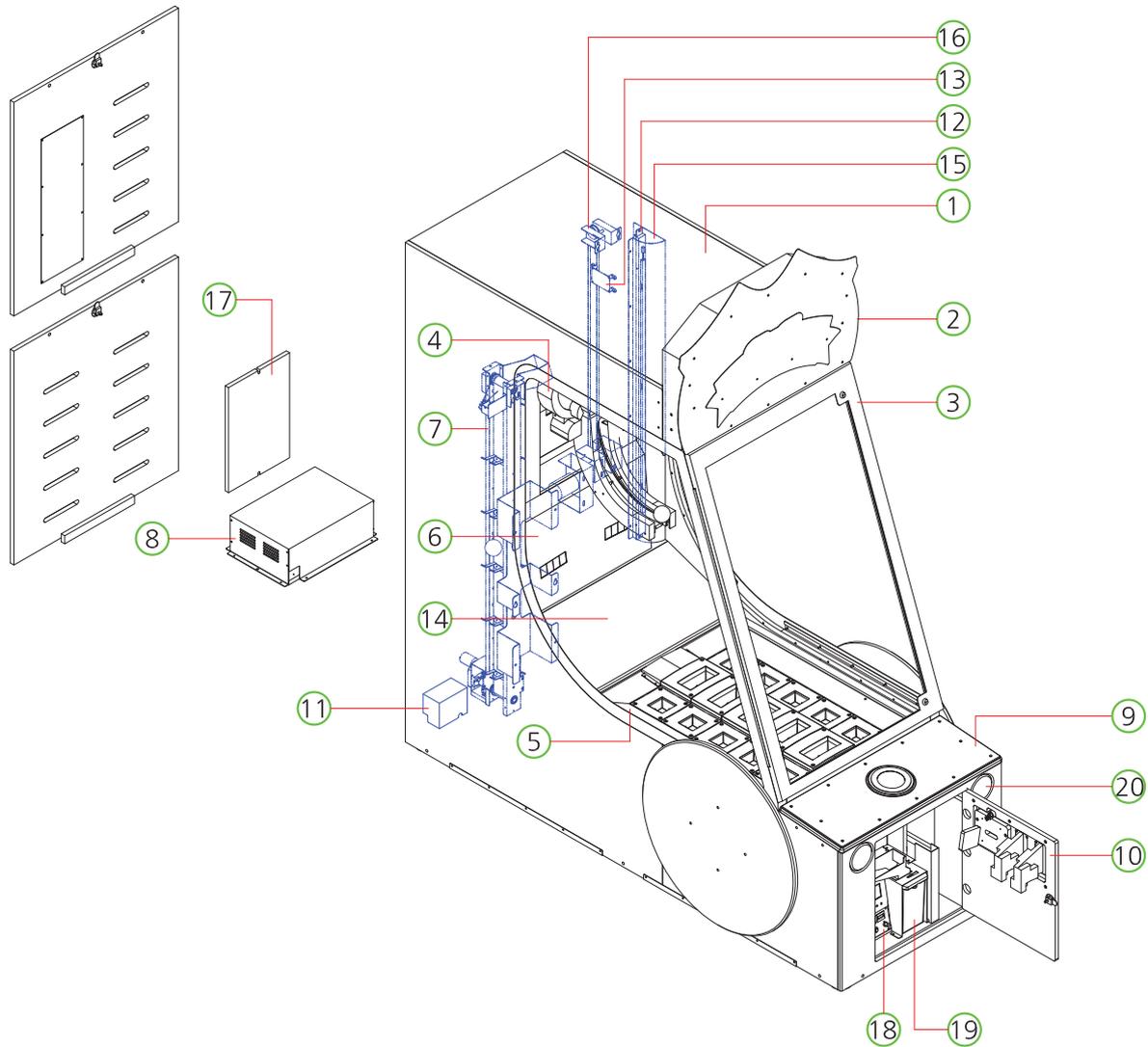
## 7-9. SOLENOID ERROR

\*Common: Check the input voltage, check wiring



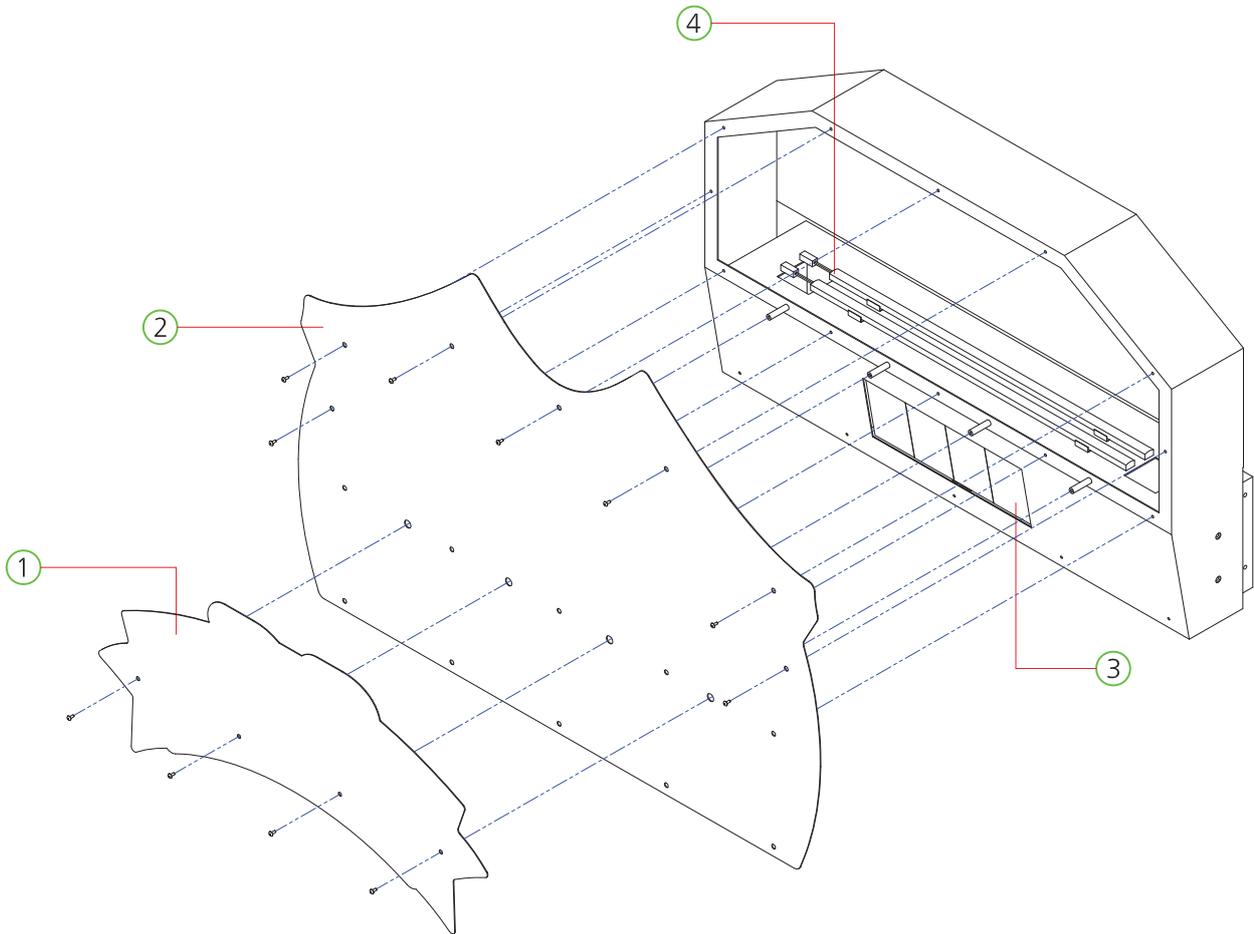
# 8. EXPLODED VIEW

## 8-1. MAIN CABINET



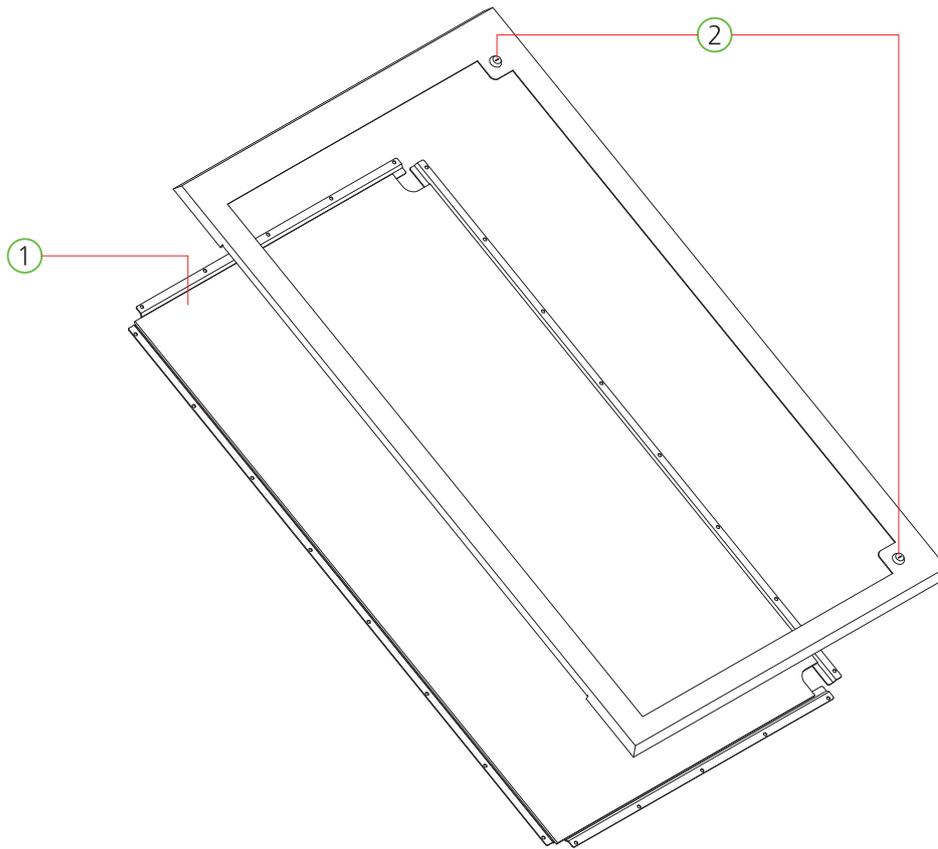
| NO. | PART NAME                 | SPEC.      | QUANTITY | CODE NO.    |
|-----|---------------------------|------------|----------|-------------|
| 1   | MAIN CABINET PART         | -          | 1        | -           |
| 2   | BILLBOARD PART            | -          | 1        | -           |
| 3   | FRONT WINDOW DOOR PART    | -          | 1        | -           |
| 4   | BALL DROP GUIDE PART      | -          | 1        | -           |
| 5   | TARGET FRAME PART         | -          | 1        | -           |
| 6   | TICKET FND BKT PART       | -          | 1        | -           |
| 7   | ELEVATOR PART             | -          | 1        | -           |
| 8   | SMPS PANEL PART           | -          | 1        | -           |
| 9   | BUTTON PANEL PART         | -          | 1        | -           |
| 10  | FRONT DOOR PART           | -          | 1        | -           |
| 11  | AC INPUT PART             | -          | 1        | -           |
| 12  | INNER CONER LED LAMP PART | -          | 2        | -           |
| 13  | DISPLAY COPY PCB ASS'Y    | -          | 1        | AGST0PCB008 |
| 14  | SIDE WINDOW               | GLASS-5.0t | 1        | MREE0GLA001 |
| 15  | INNER CONER COVER ACRYL   | PET-1.0t   | 2        | MREE0ACR007 |
| 16  | Y MOTOR PART              | -          | 1        | -           |
| 17  | MAIN BOARD PCB PART       | -          | 1        | -           |
| 18  | SETUP PANEL PART          | -          | 1        | -           |
| 19  | COIN BOX                  | SMALL      | 1        | MDRE0PLA007 |
| 20  | SPEAKER                   | -          | 2        | -           |

## 8-2. BILLBOARD PART

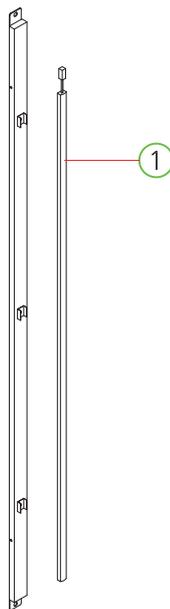


| NO. | PART NAME           | SPEC.      | QUANTITY | CODE NO.    |
|-----|---------------------|------------|----------|-------------|
| 1   | BILLBOARD ACRYL     | ACRYL-1.0t | 1        | MREE0ACR005 |
| 2   | BILLBOARD FND ACRYL | ACRYL-1.0t | 1        | MREE0ACR006 |
| 3   | FND PCB ASS'Y       | ACRYL-1.0t | 1        | AFND0PCB011 |
| 4   | LED BAR             | 450        | 2        | AZZZ0PCB124 |

### 8-3. FRONT WONDOW DOOR PART

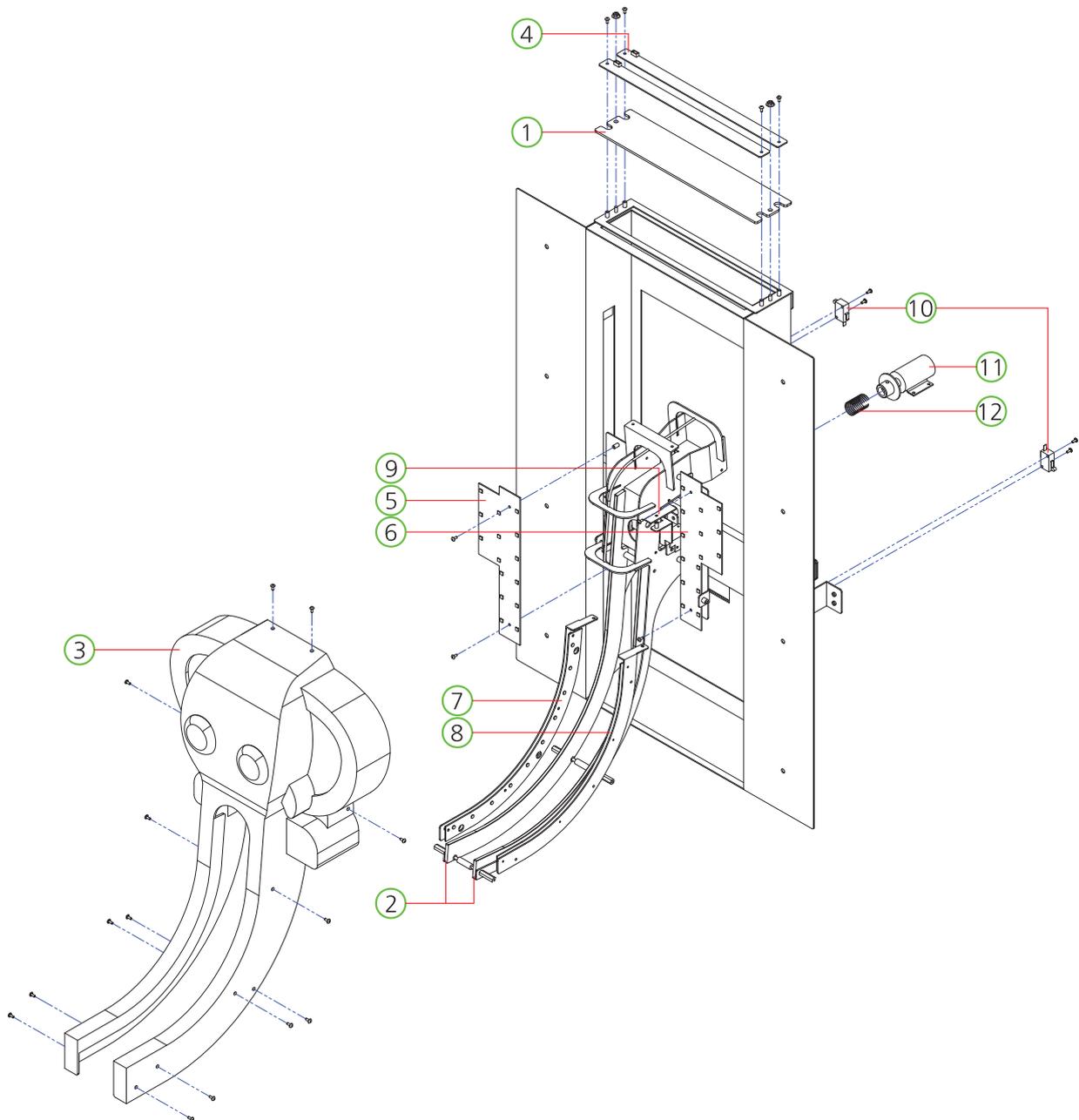


| NO. | PART NAME    | SPEC.      | QUANTITY | CODE NO.    |
|-----|--------------|------------|----------|-------------|
| 1   | FRONT WINDOW | GLASS-5.0t | 1        | MREE0GLA001 |
| 2   | KEY ASS'Y    | 7001       | 2        | MZZZ0KEY076 |



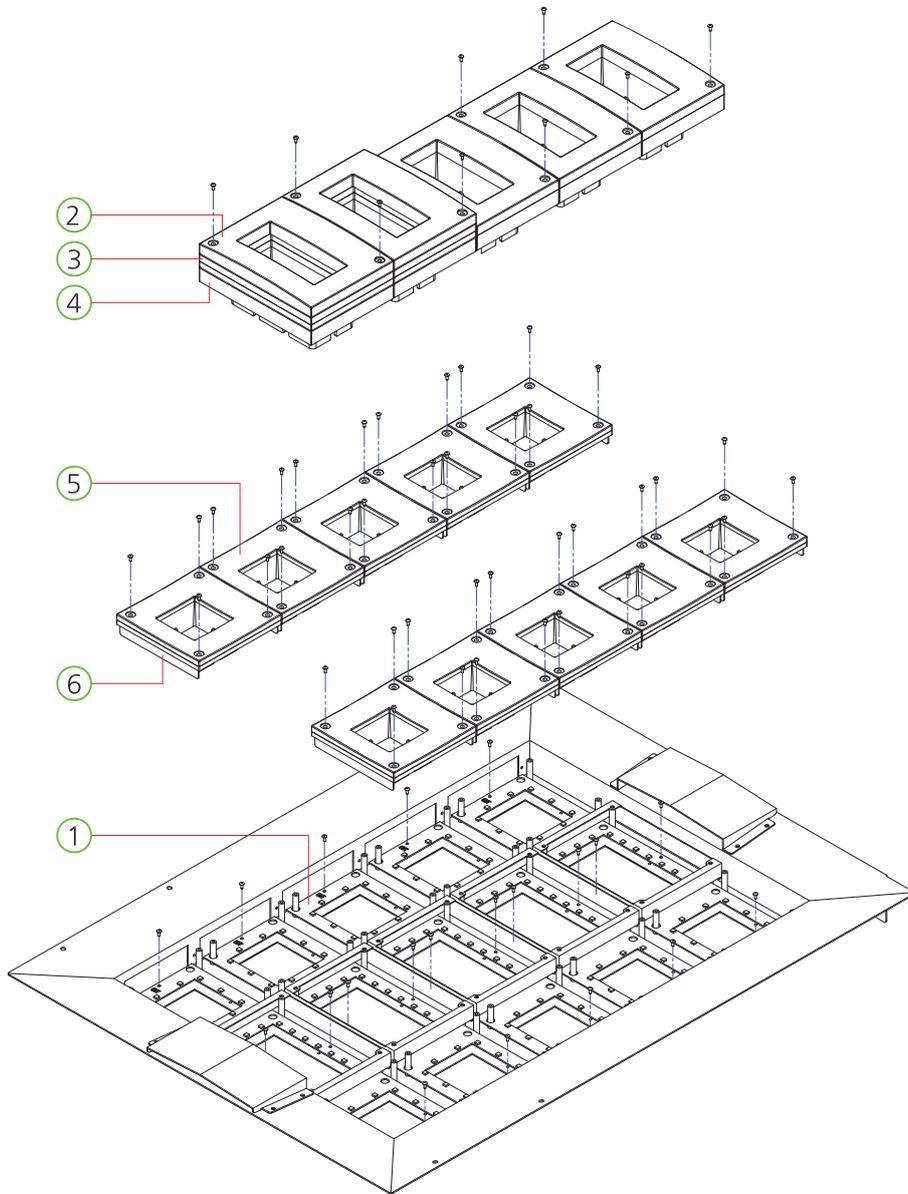
| NO. | PART NAME | SPEC. | QUANTITY | CODE NO.    |
|-----|-----------|-------|----------|-------------|
| 1   | LED BAR   | 900   | 2        | AZZZ0PCB128 |

## 8-5. BALL DROP GUIDE PART



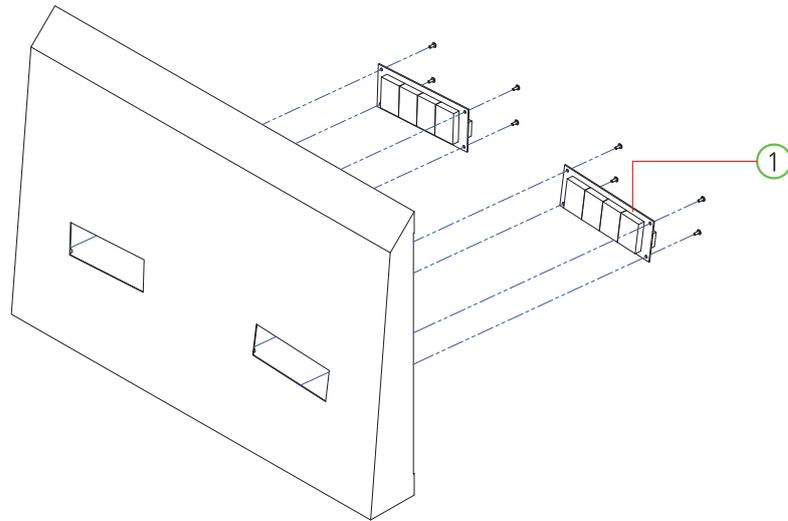
| NO. | PART NAME                        | SPEC.      | QUANTITY | CODE NO.    |
|-----|----------------------------------|------------|----------|-------------|
| 1   | Y MOVING TOP LED COVER ACRYL     | ACRYL-3.0t | 1        | MREE0ACR002 |
| 2   | BALL DROP GUIDE RAIL ACRYL       | ACRYL-5.0t | 1        | MREE0ACR001 |
| 3   | ELEPHANT MOLDING                 | -          | 1        | MREE0MOL001 |
| 4   | MIDDLE DOOR LED PCB ASS'Y        | -          | 2        | AM190PCB003 |
| 5   | ELEPHANT MOLDING LED PCB-L ASS'Y | -          | 1        | AREE0PCB006 |
| 6   | ELEPHANT MOLDING LED PCB-R ASS'Y | -          | 1        | AREE0PCB007 |
| 7   | BALL DROP GUIDE LED PCB ASS'Y-L  | -          | 1        | AREE0PCB004 |
| 8   | BALL DROP GUIDE LED PCB ASS'Y-R  | -          | 1        | AREE0PCB005 |
| 9   | BALL CHECK SENSOR PCB ASS'Y      | -          | 1        | AREE0PCB003 |
| 10  | MICRO SWITCH                     | GSMV1651A2 | 2        | MELE0MIC021 |
| 11  | TUBULAR SOLENOID                 | M 32022L   | 1        | AREE0ASS001 |
| 12  | SOLENOID RETURN SPRING           | -          | 1        | MREE0SPR002 |

## 8-6. TARGET FRMAE PART



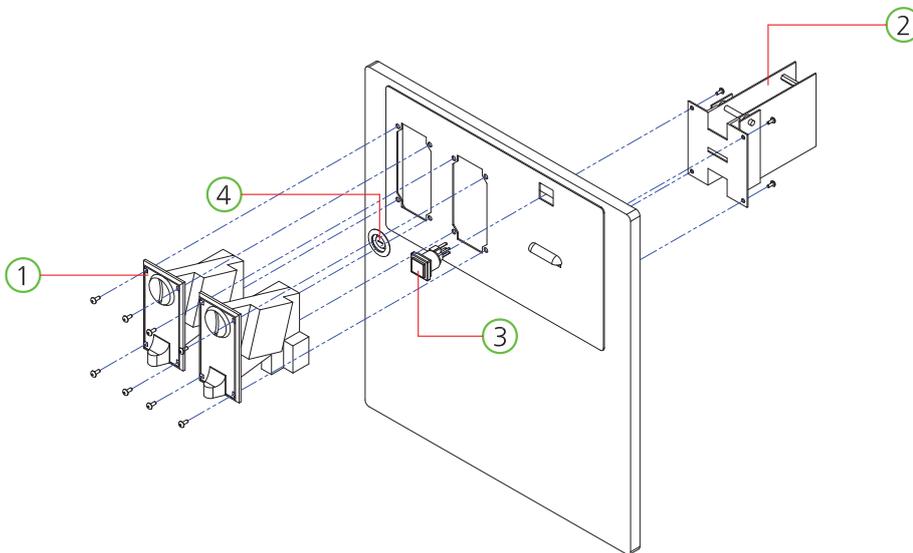
| NO. | PART NAME               | SPEC.      | QUANTITY | CODE NO.    |
|-----|-------------------------|------------|----------|-------------|
| 1   | TARGET SENSOR PCB ASS'Y | -          | 1        | AREE0PCB009 |
| 2   | TARGET ACRYL-A          | -          | 5        | MREE0PLA002 |
| 3   | TARGET A-LIFT ACRYL     | ACRYL-10.t | 4        | MREE0ACR008 |
| 4   | TARGET ACRYL-A BASE     | -          | 5        | MREE0PLA001 |
| 5   | TARGET ACRYL-B          | -          | 10       | MREE0PLA004 |
| 6   | TARGET ACRYL-B BASE     | -          | 10       | MREE0PLA003 |

## 8-7. TICKET FND BKT PART



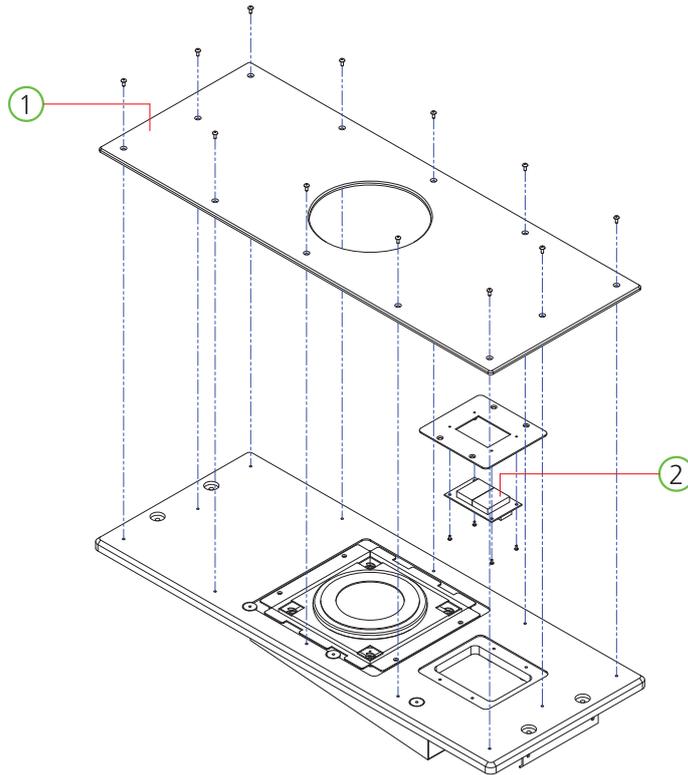
| NO. | PART NAME     | SPEC. | QUANTITY | CODE NO.    |
|-----|---------------|-------|----------|-------------|
| 1   | FND PCB ASS'Y | -     | 2        | AFNDOPCB004 |

## 8-8. FRONT DOOR PART

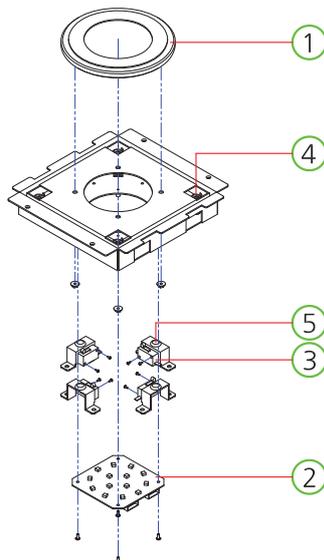


| NO. | PART NAME        | SPEC.           | QUANTITY | CODE NO.    |
|-----|------------------|-----------------|----------|-------------|
| 1   | COIN SELECTOR    | TW-333          | 2        | MZZZ0COS045 |
| 2   | TICKET DISPENSER | TL-002H         | 1        | MZZZ0TID007 |
| 3   | BUTTON SWITCH    | AMIPB-26SH R12D | 1        | MMUM0BUT002 |
| 4   | KEY ASS'Y        | 7001            | 1        | MZZZ0KEY076 |

## 8-9. BUTTON PANEL PART

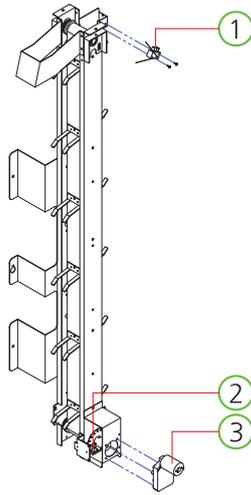


| NO. | PART NAME          | SPEC.      | QUANTITY | CODE NO.    |
|-----|--------------------|------------|----------|-------------|
| 1   | BUTTON PANEL ACRYL | ACRYL-5.0t | 1        | MREE0ACR004 |
| 2   | FND PCB ASS'Y      | -          | 1        | AFND0PCB003 |



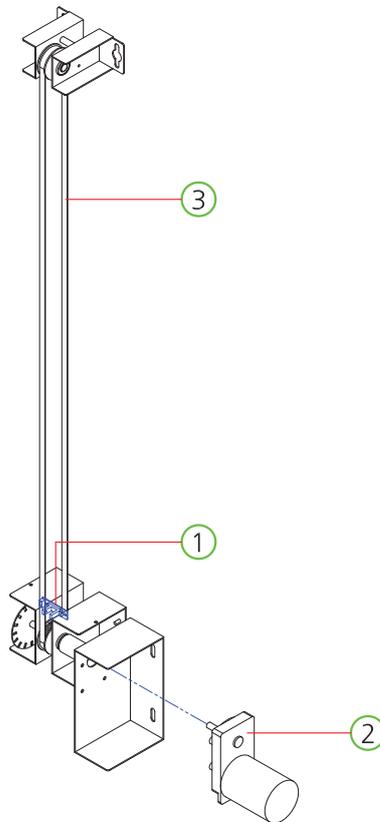
| NO. | PART NAME                 | SPEC.         | QUANTITY | CODE NO.    |
|-----|---------------------------|---------------|----------|-------------|
| 1   | DROP BUTTON ACRYL         | -             | 1        | MREE0ACR003 |
| 2   | TOP CASE LED PCB ASS'Y    | -             | 1        | APCX0PCB009 |
| 3   | MICRO SWITCH              | GSMV1651A2    | 1        | MELE0MIC021 |
| 4   | DROP BUTTON RETURN SPRING | -             | 4        | MREE0SPR001 |
| 5   | PLUG CUSHION RUBBER       | KD-96R-9, 6mm | 4        | MCIR0RUB001 |

## 8-10. ELEVATOR PART



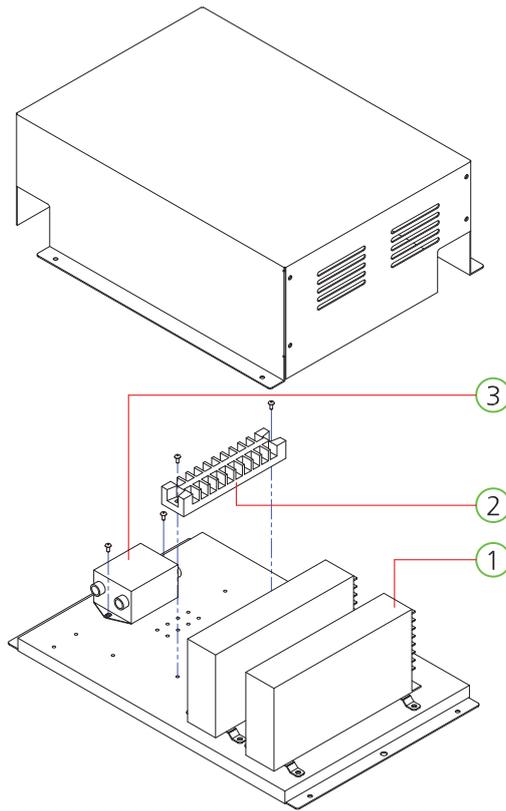
| NO. | PART NAME             | SPEC.                  | QUANTITY | CODE NO.    |
|-----|-----------------------|------------------------|----------|-------------|
| 1   | MICRO SWITCH          | CNR-05H-03             | 1        | MELE0MIC002 |
| 2   | PHOTO INT-1 PCB ASS'Y | -                      | 1        | ACIR0PCB011 |
| 3   | MOTOR                 | KGE-3448-050-12V_1/105 | 1        | MZZZ0MOT084 |

## 8-11. Y MOTOR PART



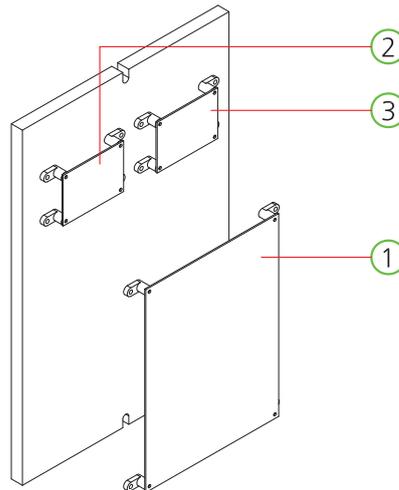
| NO. | PART NAME             | SPEC.            | QUANTITY | CODE NO.    |
|-----|-----------------------|------------------|----------|-------------|
| 1   | PHOTO INT-1 PCB ASS'Y | -                | 1        | ACIR0PCB011 |
| 2   | DC MOTOR              | KGY-060-K6DG15N1 | 1        | MZZZ0MOT083 |
| 3   | TIMMING BELT          | 754XL-037        | 1        | MZZZ0BEL022 |

## 8-12. SMPS PANEL PART



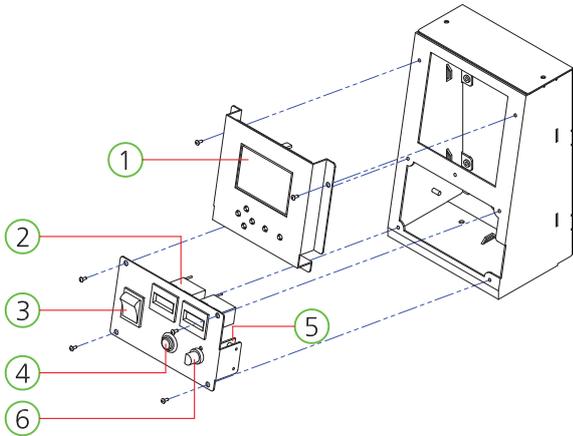
| NO. | PART NAME      | SPEC.    | QUANTITY | CODE NO.    |
|-----|----------------|----------|----------|-------------|
| 1   | POWER SMPS     | D120A    | 2        | MELE0SMP045 |
| 2   | TERMINAL BLOCK | 250V 10P | 1        | MELE0TEB003 |
| 3   | NOISE FILTER   | ES1-F10  | 1        | MELE0NOI006 |

## 8-13. MAIN BOARD PCB PART



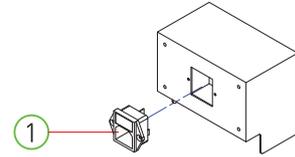
| NO. | PART NAME            | SPEC. | QUANTITY | CODE NO.    |
|-----|----------------------|-------|----------|-------------|
| 1   | MAIN PCB ASS'Y       | -     | 1        | AICU0PCB001 |
|     | SOUND ROM PCB ASS'Y  | -     | 1        | AICU0PCB004 |
|     | CPU B PCB ASS'Y      | -     | 1        | ALOB0PCB009 |
| 2   | EXT MOTOR ASS'Y      | -     | 1        | ASLG0PCB008 |
| 3   | TARGET I/O PCB ASS'Y | -     | 1        | AREE0PCB008 |

## 8-14. SETUP PANEL PART



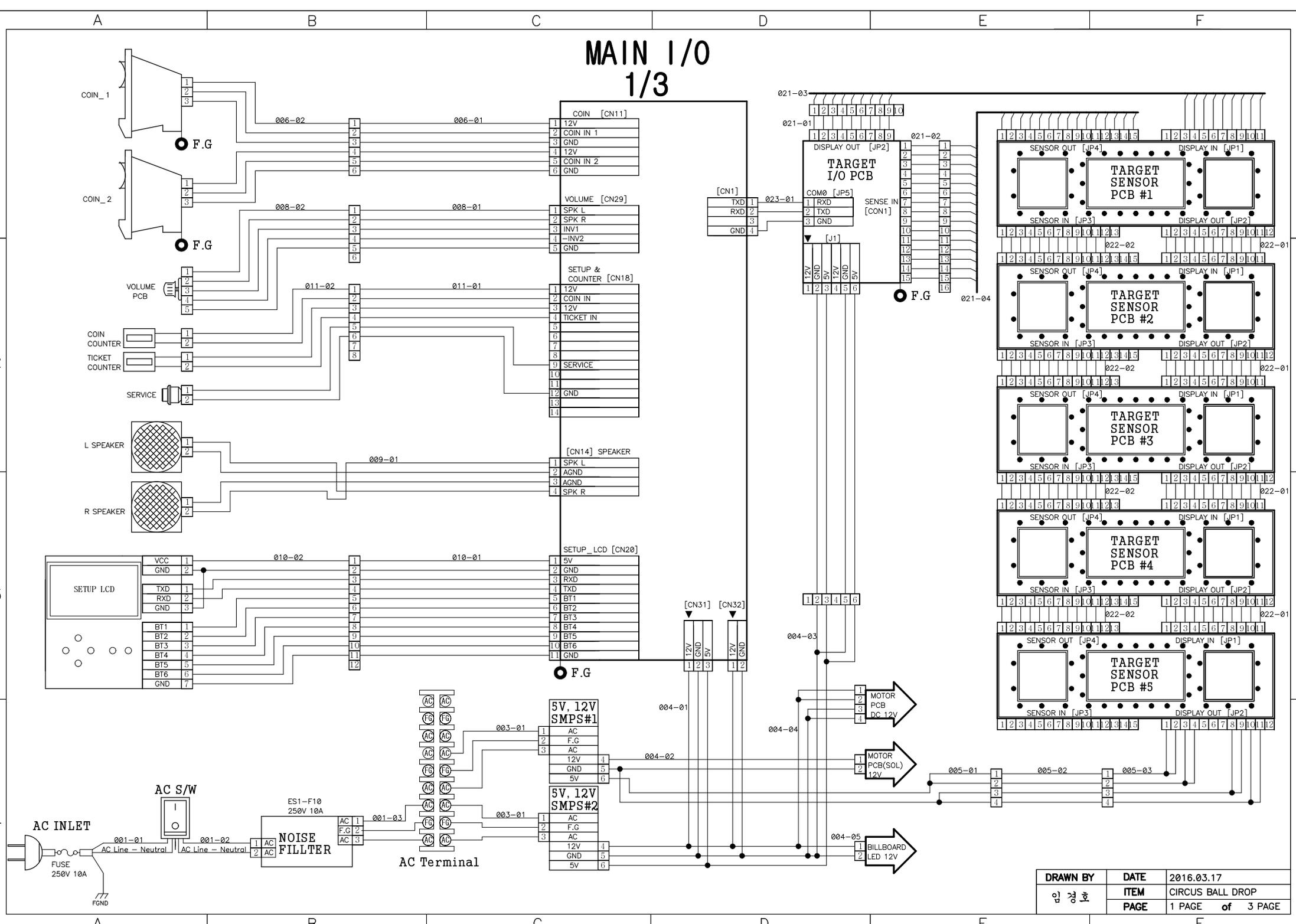
| NO. | PART NAME           | SPEC.    | QUANTITY | CODE NO.    |
|-----|---------------------|----------|----------|-------------|
| 1   | SETUP LCD PCB ASS'Y | -        | 1        | AZZZ0PCB113 |
| 2   | COUNTER             | AMMC-712 | 2        | MZZZ0COS045 |
| 3   | ROCKER SWITCH       | T-125 4P | 1        | MELE0SWI004 |
| 4   | PUSH BUTTON SWITCH  | DS412R   | 1        | MELE0PUS006 |
| 5   | VOLUME PCB ASS'Y    | -        | 1        | AHM20PCB016 |
| 6   | VOLUME KNOB         | -        | 1        | MELE0VOL007 |

## 8-15. AC INPUT PART



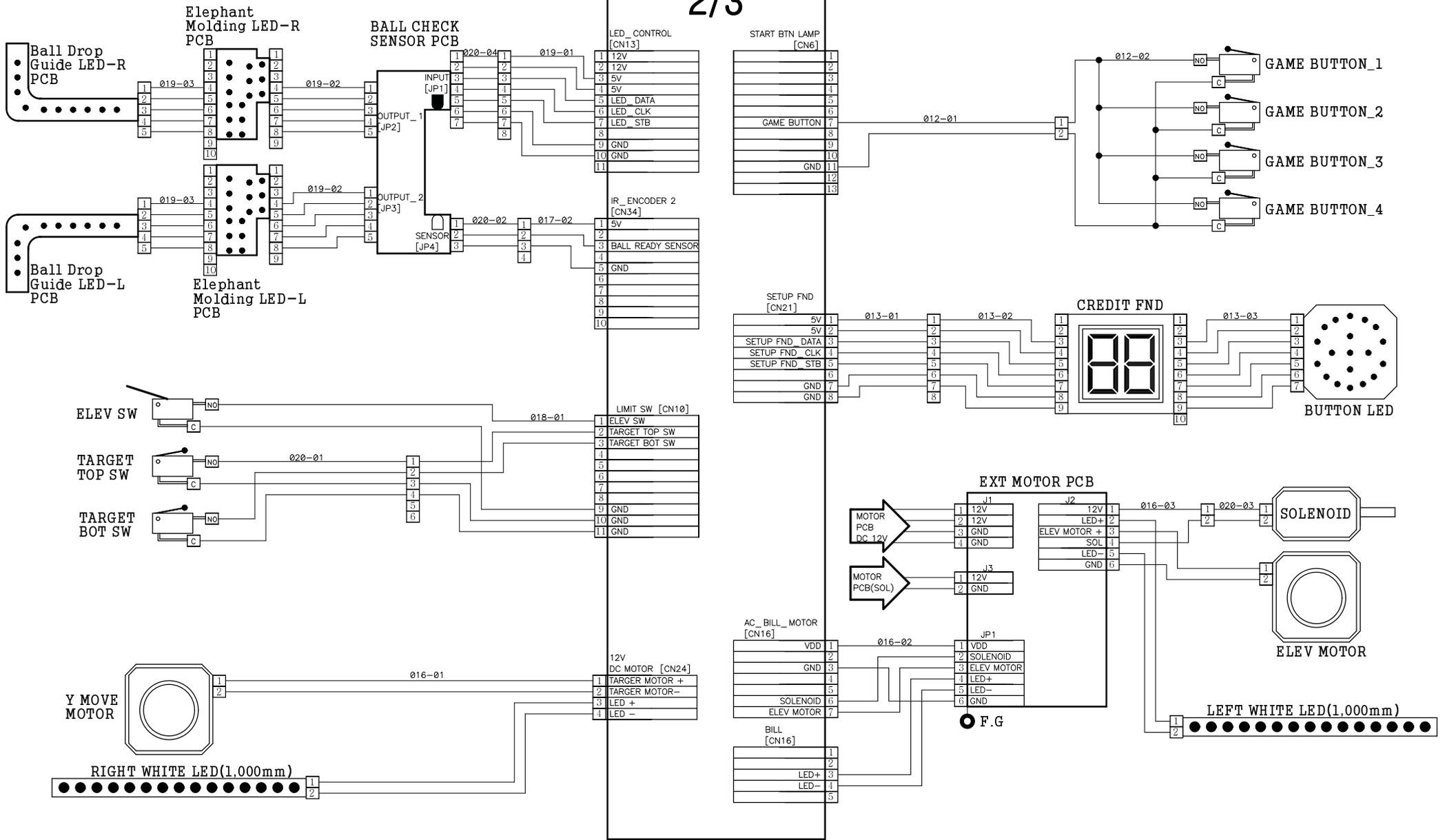
| NO. | PART NAME | SPEC.   | QUANTITY | CODE NO.    |
|-----|-----------|---------|----------|-------------|
| 1   | AC INPUT  | DAC-13H | 1        | MELE0SWI015 |
|     | FUSE      | 10A     | 1        | MELE0FUS018 |

# MAIN I/O 1/3

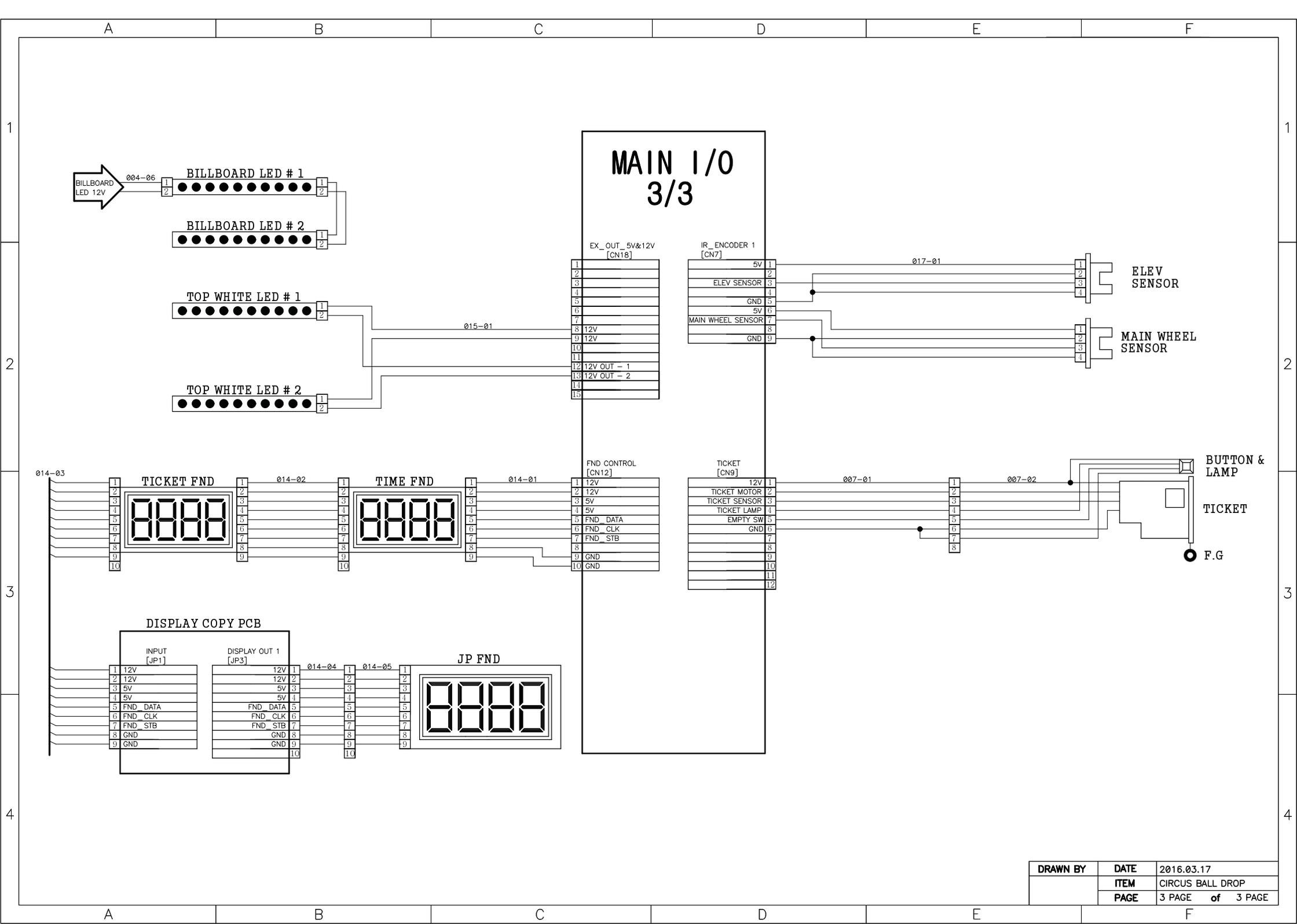


|                 |      |                  |
|-----------------|------|------------------|
| DRAWN BY<br>임경호 | DATE | 2016.03.17       |
|                 | ITEM | CIRCUS BALL DROP |
|                 | PAGE | 1 PAGE of 3 PAGE |

# MAIN I/O 2/3



|          |      |                  |
|----------|------|------------------|
| DRAWN BY | DATE | 2016.03.17       |
|          | ITEM | CIRCUS BALL DROP |
|          | PAGE | 2 PAGE of 3 PAGE |



|          |      |                  |
|----------|------|------------------|
| DRAWN BY | DATE | 2016.03.17       |
|          | ITEM | CIRCUS BALL DROP |
|          | PAGE | 3 PAGE of 3 PAGE |



## **ANDAMIRO WARRANTY POLICY**



Andamiro warrants to the original purchaser that all of its products will be free from defects in material and workmanship.

**The Key Components that Andamiro warrants for a period of one year from ship date are as follows ; SMPS, Main PCB, IO PCB, Motor, Sensor PCB, Solenoid.**

For any key components within the warranty period, Andamiro will repair or replace defective components free of charge.

When placing a warranty request, the customer is requested to furnish the following information:

1. Name of the game.
2. Serial Number of the game.
3. A Detailed Description of the defect/s experienced.

This warranty does not apply to the defects caused due to misuse or abuse of the product.

Any alterations made to game or game parts will void this warranty.

For warranty details on our product range please visit our website, [www.andamiro.com](http://www.andamiro.com).

ANDAMIRO CO., LTD.  
[www.andamiro.com](http://www.andamiro.com)



Please complete the following request form to place a warranty request and send it to ANDAMIRO Korea either by fax (Fax No: +82-31-908-7548) or by e-mail. The e-mail address of the person in charge of each region is shown in our web-site, [www.andamiro.com](http://www.andamiro.com)

For the on-line request, please visit our web-site, [www.andamiro.com](http://www.andamiro.com) and click "Customer Service" and then click "Contact Us" in which you shall find the e-mail address of the person in charge of each region.

**1. Company Name :** \_\_\_\_\_

**2. Mailing Address :** \_\_\_\_\_

\_\_\_\_\_

**3. E-Mail Address :** \_\_\_\_\_

**4. Phone No :** \_\_\_\_\_

**5. Name of the person in charge :** \_\_\_\_\_

**6. Description of the product defects**

6-1 ) Name of the Game : \_\_\_\_\_

6-2 ) Serial No : \_\_\_\_\_

6-3 ) Date of Purchase : \_\_\_\_\_

6-4 ) Detailed description of the product defects.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Remarks: If possible, please provide us with related photos and videos which will be greatly appreciated to verify the cause of the problem.



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