

SERVICE MANUAL







Ver 1.0



[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.

ISSUE DATE:Apr. 13, 2022

PRODUCT INFO	PART INFO	SUPPORT INFO	NEW PRODUCT INFO
			

※ QR(SUPPROT) - Leaflets, manuals, solution(error code,trouble shooting document, watch&solve)

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

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 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 and 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.

- * **Electromagnetic wave may cause unexpected noise from speaker.**

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, and 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

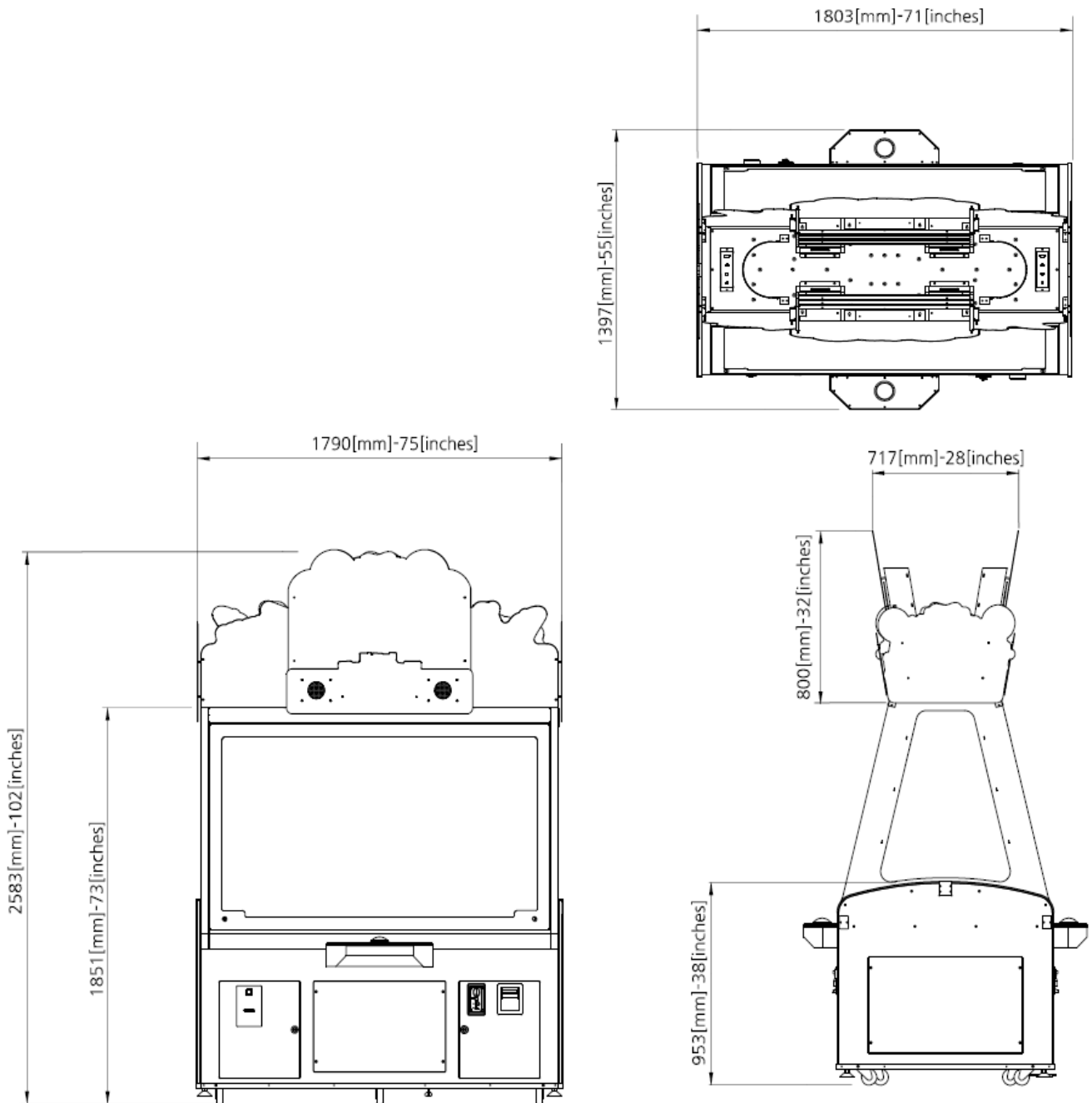
- Lors de la mise en place, l'inspection, l'entretien, déplacement ou le transport de ce produit, suivez les procédures et les instructions énoncées dans ce manuel et effectuer ce travail en toute sécurité.
- Ne pas mettre en place, manipuler, inspecter, entretenir, déplacer ou transporter ce produit 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

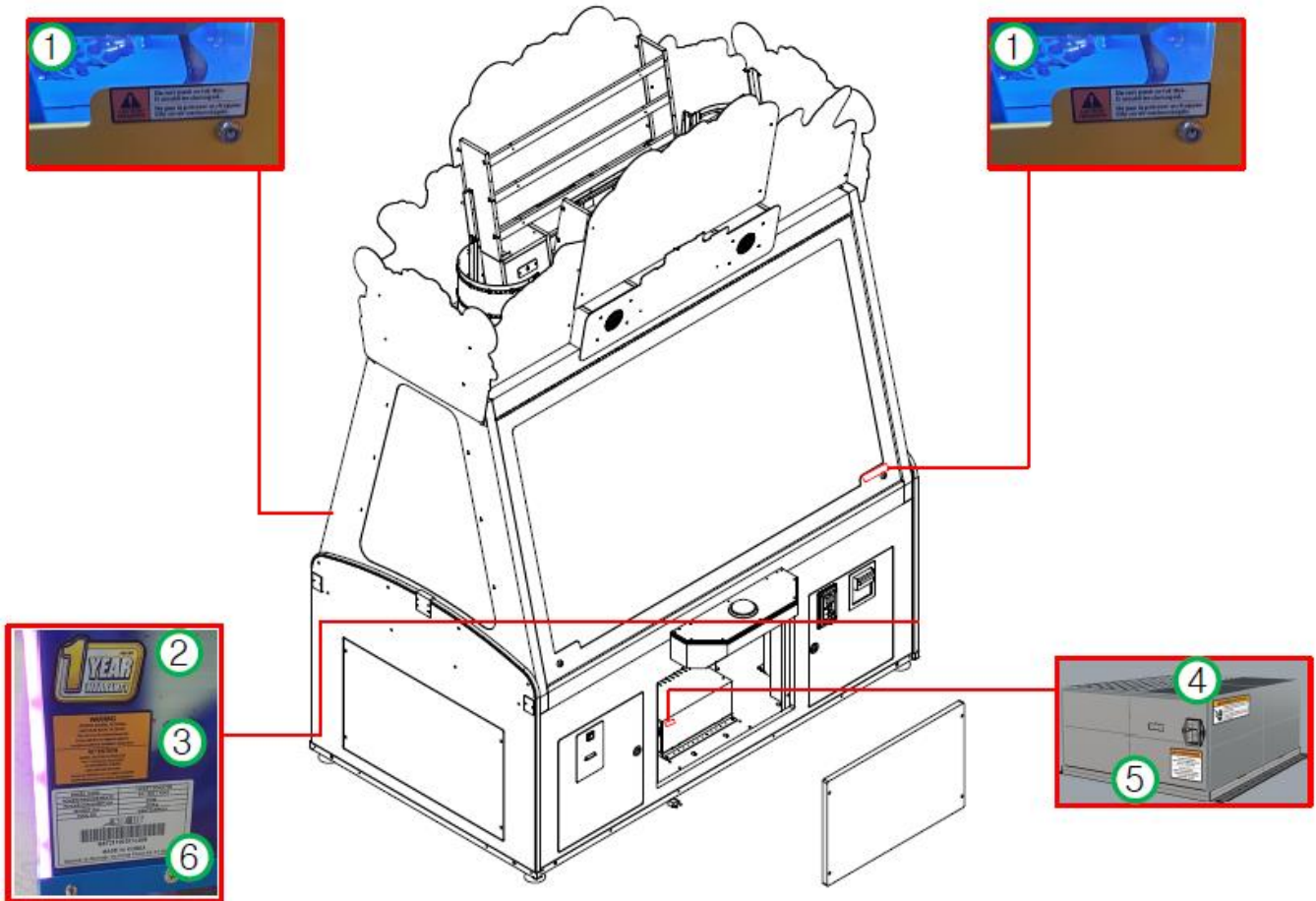
1) DIMENSION



2) SPECIFICATION

ITEM	DETAILS	
VOLTAGE	AC 120V	AC 230V
FREQUENCY RANGE	60 Hz	50/60 Hz
CONSUMPTION	450 W	
INSTALL DIMENSION(W*D*H)	1803*1397*2583mm , 71*55*102 inch	
PACKING DIMENSION(W*D*H)	1900*1190*2250mm , 75*47*89 inch	
WEIGHT(kg), packing weight(kg)	432 kg, 460kg	
CERTIFICATION	ETL	CE, CB
* NOTE : This product is a free bolt product.(AC 120-230V)		

3) STICKER LOCATION



▼ 1	▼ 2	▼ 3
▼ 4	▼ 5	▼ 6
		<p>Certification Label</p>

2 INSTALL INFORMATION

1) INSTALLATION SPACE

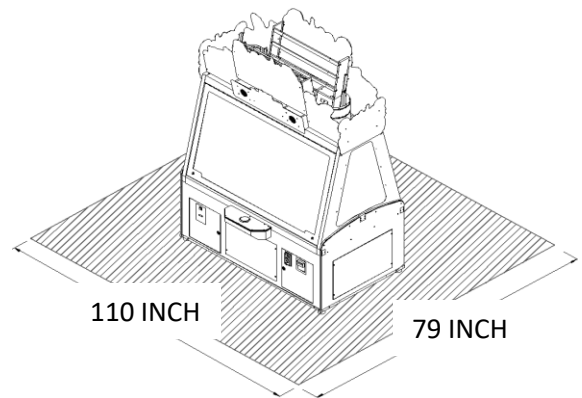
- ※ Maintenance zone & Play zone distance maintenance
: should have at least 2800 mm * 2000mm each

2) MAINTAIN PRODUCT FLATNESS

- ※ After installation is complete
: adjust the 4 adjuster so that the product is stably leveled.

3) IMPORTANCE

- ※ This product should be indoor use and out of direct sunlight.



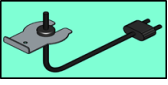














3 UNPACKING

1) PACKING LOCATION

	▼ 1	ASS'Y- B_TITLE	ASS'Y- B_SIDE LIGHT LED	
	▼ 2			
	▼ 3			
▼ 4	▼ 5			

2) COMPONENTS

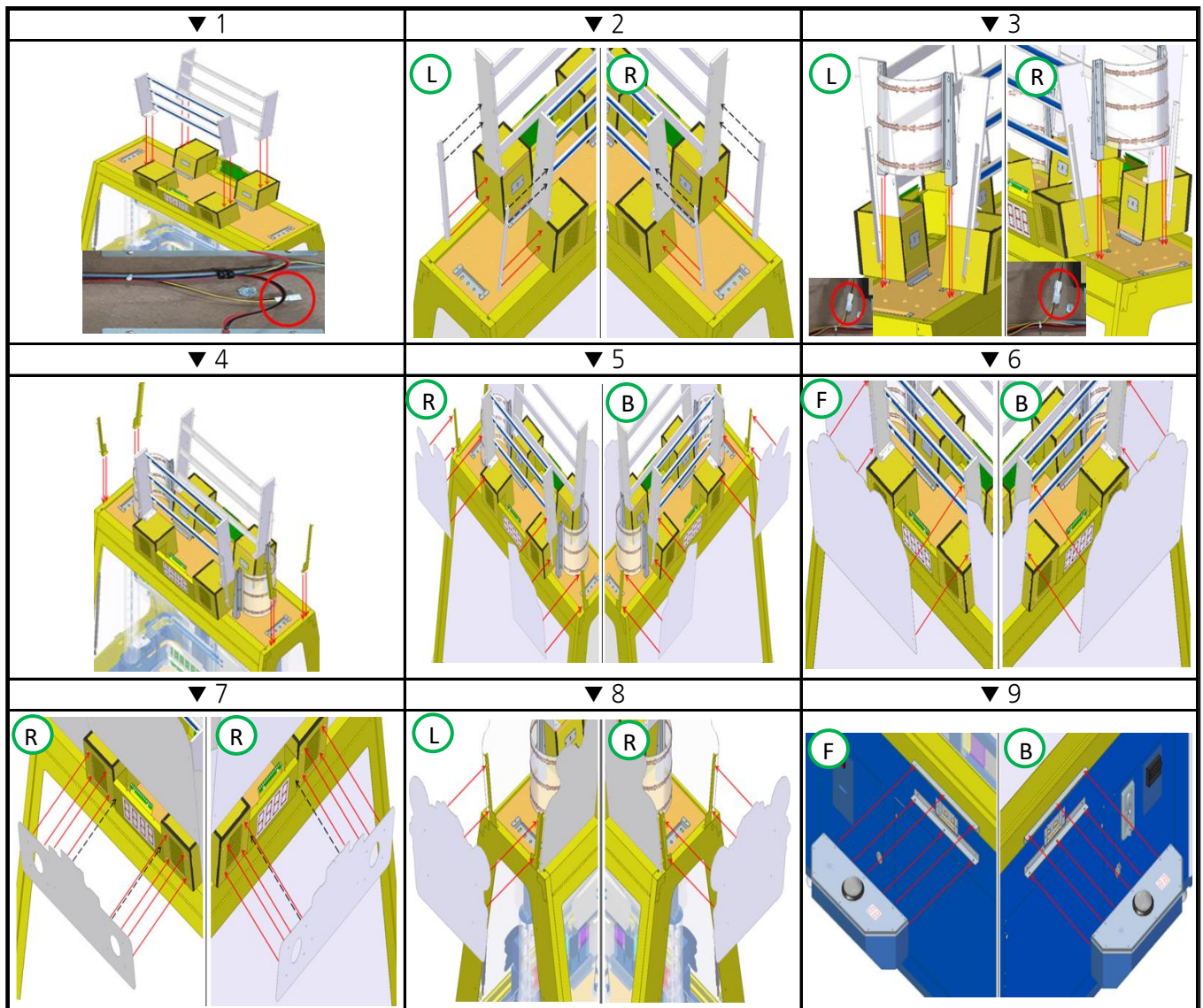
no	PART NAME	Q'TY	SPARE	no	PART NAME	Q'TY	SPARE
1	AC POWER CORD	1		7	TH_NI M4*8	52	
2	KEY 7001	2		8	TH_NI M4*16	24	
3	MANUAL	1		9	TH_NI M4*20	8	
4	WRENCH 3,4,5 mm	1 EACH		10	TH_NI M4*10 WRENCH	12	
5	BALL	10		11	STICKER	2 EACH	
6	ERROR CODE	1		12	SCREW - 4TYPES OF SPARE		

▼ 1	▼ 2	▼ 3	▼ 4	▼ 5	▼ 6			
								
▼ 7, 8, 9	▼ 10	▼ 11						
								

4 INSTALL

1) HOW TO INSTALL(BILLBOARD)

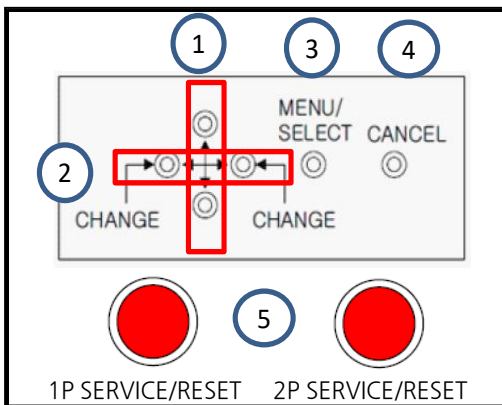
no	PROCESS	ITEM	Q'ty	BOLT	SPEC	Q'ty	BOLT	SPEC	Q'ty
1	ASSEMBLE	ASS'Y- B_TITLE PART	2	TH_NI	4*16	8			
	CONNECT	WIRING 1P,2P	2						
2	ASSEMBLE	B_DECO FIX BKT	4	TH_NI	4*8	8	TH_NI	4*16	8
3	ASSEMBLE	ASS'Y- B_SIDE LIGHT LED PART	2	TH NI	4*20	8			
	CONNECT	WIRING	2						
4	ASSEMBLE	B_SIDE POP FIX BKT R, L	4	TH_NI	4*8	8			
5	ASSEMBLE	B_DECO ACRYL R, L	4	TH_NI	4*8	16			
6	ASSEMBLE	B_TITLE COVER ACRYL		TH_NI	4*8	8			
7	ASSEMBLE	B_BIGWIN FND COVER ACRYL	2	TH_NI	4*16	16	TH_NI	4*8	4
8	ASSEMBLE	B_SIDE POP COVER ACRYL	2	TH_NI	4*8	8			
9	ASSEMBLE	ASS'Y- BUTTON TOTAL PART	2	RENCH	4*10	12			
10	POWER ON	NOTE : Make sure to check whether the voltage is 120V or 230V before turning it on.							



* L: LEFT, R: RIGHT, F: FRONT, B: REAR

5 SETUP SETTINGS

▶ SETUP BUTTON LAYOUT



BUTTON	NOTE
1. UP/DOWN	MENU UP/DOWN MOVE
2. LEFT/RIGHT	CHANGE SETTING VALUE
3 MENU/SELECT	SETUP MENU MODE, SELECT AND PERFORM
4. CANCEL	EXIT
5. SERVICE/RESET	Normally service in. In case of error, use this button to clear error. * 1 credit increase by pressing one servic in.

1) OPERATING OPTIONS

PRESS MENU BUTTON. [MENU/SELECT BUTTON: TO ENTER]		
1	PROGRAM SETTINGS	SETUP MODE
2	CLEAR MODE	CLEAR MODE
3	BOOKKEEPING DATA	VIEW GAME DATA
4	FACTORY SETTING	INITIALIZING TO FACTORY SETTING
5	TEST MODE	TESET MODE
7	EXIT	EXIT TO OPERATION OPTIONS

2) PROGRAM SETTINGS

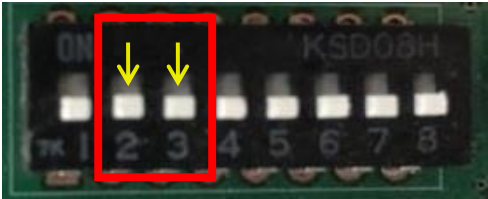
LCD DISPLAY	DESCRIPTION	RANGE	DEFAULT
CREDIT / COIN	SETTING NUMBER OF CREDIT PER COIN	FREE, 1~10/1	1/1
PLAYS / BILL	SETTING NUMBER OF PLAYS PER BILL	1 ~ 10	1
GAME TIME	SETTING FOR GEME TIME OVER	10 ~ 99 (SECONDS)	30
LIFE TIME	SETTING TRAIN MOVING IN DEMO ON : TRAIN RUNS ALL THE TIME. OFF : TRAIN ALWAYS STOPS. INT : MEANS INTERVAL. TRAIN WAITS FOR THE SET TIME. (AFTER WAITING TIME, DO 3 LAPS AND WAIT AGAIN)	ON , OFF, INT 1MIN, INT 5MIN, INT 10MIN, INT 30MIN, INT 1HRS, INT 3HRS	INT 10MIN
LED COUNT	IF ALL OF THE LAMPS OF TRAIN SCORE BOARD ARE "OFF", THE LAMPS ARE RANDOMLY "ON" ACCORDING TO THIS SETTING VALUE AT THE BEGINNING (THIS SETTING IS AVAILABLE IN SINGLE MODE OF GAME TYPE ONLY)	0 ~ 5	2
SUPER BONUS	SETTING FIRST STARTING VALUE(NUMBER) OF SUPER BONUS	30 ~ 9999 (INCREASES BY 10)	1000
SUPER LIMIT	SETTING LIMIT VALUE(NUMBER) OF SUPER BONUS	30 ~ 9999 (INCREASES BY 10)	2000
SB-INCREMENT	SETTING INCREASING VALUE(NUMBER) OF SUPER BONUS (PER 1 PLAY)	0 ~ 50 (INCREASES BY 1)	0

TRAIN TYPE	SET TRAIN SPEED NONE : DEFAULT SPEED. SLOW : SET SLOW SPEED. MIDDLE : SET MIDDLE SPEED. FAST : SET FAST SPEED. RANDOM : AT EASY OR HARD MODE IN DIFFICULTY, SET RANDOM SPEED. (NOT IN NORMAL MODE)	NONE, SLOW, MIDDLE, FAST, RANDOM	NONE
DIFFICULTY	SETTING GAME DIFFICULTY EASY : NO CONTROL OF PROBABILITY NORMAL : CONTROL PROBABILITY OF RED ZONE ONLY. HARD : CONTROL PROBABILITY OF RED AND GREEN ZONE.	EASY, NORMAL, HARD	NOMAL
TARGET SCORE	SETTING TICKET SCORE OF EACH CABIN	TABLE BELOW	

LCD DISPLAY	DESCRIPTION	RANGE	DEFAULT		
			INT	NJ	CE
TYPE	REFER TO THE SCORE TABLE BELOW	0 ~ 1 (INCREASED BY 1)	0	0	0
TARGET 1 SCORE	SETTING SCORE 1 CABIN OF TRAIN	0 ~ 200 (INCREASED BY 1)	50	50	8
TARGET 2 SCORE	SETTING SCORE 1 CABIN OF TRAIN	0 ~ 200 (INCREASED BY 1)	20	20	4
TARGET 3 SCORE	SETTING SCORE 1 CABIN OF TRAIN	0 ~ 200 (INCREASED BY 1)	30	30	6
TARGET 4 SCORE	SETTING SCORE 1 CABIN OF TRAIN	0 ~ 200 (INCREASED BY 1)	10	10	2
TARGET 5 SCORE	SETTING SCORE 1 CABIN OF TRAIN	0 ~ 200 (INCREASED BY 1)	100	100	10
TARGET 6 SCORE	SETTING SCORE 1 CABIN OF TRAIN	0 ~ 200 (INCREASED BY 1)	10	10	2
TARGET 7 SCORE	SETTING SCORE 1 CABIN OF TRAIN	0 ~ 200 (INCREASED BY 1)	30	30	6
TARGET 8 SCORE	SETTING SCORE 1 CABIN OF TRAIN	0 ~ 200 (INCREASED BY 1)	20	20	4
TARGET 9 SCORE	SETTING SCORE 1 CABIN OF TRAIN	0 ~ 200 (INCREASED BY 1)	50	50	8
SAVE AND EXIT	SAVE AND EXIT	BY PRESSING SELECT BUTTON, PERFORM BY MOVING THE CURSOR TO [YES] OR [NO]			
CANCEL AND EXIT					

MERCY TICKET	SETTING NUMBER OF TICKETS TO BE DISPENSED IN CASE OF TRY AGAIN	0 ~ 20 (INCREASES BY 1)	2
TICKET/SCORE	SETTING TICKET RATIO PER SCORE NONE : AUTOMATICALLY REDUCING TICKET COUNTS WITHOUT DISPENSING TICKETS.	NONE, 1/1, 1/2	1/1
ATTRACT VOLUME	USE OF DEMO SOUND AND SETTING VOLUME. OFF : NO SOUND 10 ~ 100 : RATIO OF SOUND VOLUME(%)	OFF , 10 ~ 100 (INCREASED BY 10)	60
SAVE AND EXIT	SAVE AND EXIT	BY PRESSING SELECT BUTTON, PERFORM BY MOVING THE CURSOR TO [YES] or [NO]	
CANCEL AND EXIT	CANCEL AND EXIT		

< DEFAULT DIP S/W SETTING > - DEFAULT VALUE AFTER DIP S/W 2, 3 ON AND DO FACTORY SETTING



	INT		NJ		CE	
DIP 2	OFF		ON		OFF	
DIP 3	OFF		OFF		ON	
SCORE TYPE	DEFAULT		DEFAULT		DEFAULT	
	TYPE	0	TYPE	0	TYPE	0
	AVERAGE	33	AVERAGE	33	AVERAGE	10
	TARGET 1	50	TARGET 1	50	TARGET 1	8
	TARGET 2	20	TARGET 2	20	TARGET 2	4
	TARGET 3	30	TARGET 3	30	TARGET 3	6
	TARGET 4	10	TARGET 4	10	TARGET 4	2
	TARGET 5	100	TARGET 5	100	TARGET 5	10
	TARGET 6	10	TARGET 6	10	TARGET 6	2
	TARGET 7	30	TARGET 7	30	TARGET 7	6
	TARGET 8	20	TARGET 8	20	TARGET 8	4
	TARGET 9	50	TARGET 9	50	TARGET 9	8
MERCY	2	MERCY	2	MERCY	1	
BIG-WIN VALUE	1000		1000		500	
BIG-WIN LIMIT VALUE	2000		2000		1000	
BIG-WIN INCREMENT	0		0		0	

SCORE TABLE PER TYPE	INT		NJ		CE	
TYPE	0	1	0	1	0	1
AVERAGE	33	46	33	46	10	15
BIG WIN	1000	1000	1000	1000	500	500
BIG WIN LIMIT	2000	2000	2000	2000	1000	1000
BIG WIN INCREMENT	0	0	0	0	0	0
TARGET 1	50	70	50	70	8	14
TARGET 2	20	30	20	30	4	10
TARGET 3	30	50	30	50	6	12
TARGET 4	10	20	10	20	2	8
TARGET 5	100	150	100	150	10	20
TARGET 6	10	20	10	20	2	8
TARGET 7	30	50	30	50	6	12
TARGET 8	20	30	20	30	4	10
TARGET 9	50	70	50	70	8	14
MERCY TICKET	2	2	2	2	1	2

* INITIALIZING TO FACTORY SETTING VALUE, TARGET SCORE SET TO DEFAULT VALUE

3) CLEAR MODE : GAME DATA AND BOOKKEEPING CAN BE DELETED

LCD DISPLAY	DESCRIPTION	EXECUTION
CREAR TICKETS	Delete remaining tickets to be dispensed now	BY PRESSING SELECT BUTTON, PERFORM BY MOVING THE CURSOR TO [YES] or [NO]
CLEAR PLAYS	DELETE REMAINING PLAYS(CREDIT)	
CLEAR DATA	GAME ALL GAME DATA AND BOOKKEEPING DATA INCLUDING CREDITS AND TICKET	
EXIT	Exit	

4) BOOKKEEPING

LCD DISPLAY	DESCRIPTION	LCD DISPLAY	DESCRIPTION
COIN IN 1P : 0 2P : 0 TOTLA : 0	NUMBER OF COIN IN (1P, 2P, TOTAL)	--- TICKET OUT --- 1P : 0 2P : 0 TOTLA : 0	NUMBER OF TICKET OUT (1P, 2P, TOTAL)
--- BILL IN --- 1P : 0 2P : 0 TOTLA : 0	NUMBER OF BILL IN (1P, 2P, TOTAL)	-- SUPER BONUS -- 1P : 0 2P : 0 TOTLA : 0	NUMBER OF WINNING SUPER BONUS (1P, 2P, TOTAL)
--- SERVICE IN --- 1P : 0 2P : 0 TOTLA : 0	NUMBER OF SERVICE IN AND PLAYS (1P, 2P, TOTAL) (SERVICE BUTTON INCREASES BY 1 PLAYS)	--- TRY AGAIN --- 1P : 0 2P : 0 TOTLA : 0	NUMBER OF TRY AGAIN (1P, 2P, TOTAL)
--- GAME PLAYS --- 1P : 0 2P : 0 TOTLA : 0	NUMBER OF GAME PLAY (1P, 2P, TOTAL)	- TARGET 1(~9) WIN - 1P : 0 2P : 0 TOTLA : 0	NUMBER OF WINNING 1(~9) CABIN (1P, 2P, TOTAL)
--- VER INFO ---	VERSION INFORMATION		
CANCEL BUTTON : EXIT			

5) FACTORY - SETTING : Initialize to factory setting

※ CAUTION : Clear all data and set to default value of game set

6) TEST MODE

TEST ITEMS	SETTING ITEMS	DESCRIPTIONS
INPUT TEST	[=>]	ENTER INTO THE CHECK MODE OF INPUT STATUS EACH SENSOR CAN BE CHECKED BY 1~9 SOUND(BOTH 1P, 2P) #SOUND 1 : BALL SHOOTING MOTOR SENSOR #SOUND 2 : BALL IN SENSOR #SOUND 3 : BALL OUT SENSOR #SOUND 4 : BALL RETURN CHECK SENSOR #SOUND 5 : TRAIN CABIN POSITION CHECK SENSOR #SOUND 6 : TRAIN CABIN BALL CHECK SENSOR #SOUND 7 : BALL RAIL CHECK SENSOR #SOUND 8 : TRAIN SPEED CONTROL START POSITION SENSOR #SOUND 9 : TRAIN SPEED CONTROL END POSITION SENSOR #SOUND 10 : TRAIN MAIN MOTOR ENCODER DIVIDING POINT SENSOR #SOUND 11 : BALL ELEVATOR MOTOR ENCODER DIVIDING POINT SENSOR
FND & LAMP		OPERATION TEST FOR LAMP, FND, LED
	OFF	TOTALLY TURN OFF
	STEP	OVERALL ON/OFF FLICKERING
	ON	TOTALLY LIGHT ON
MOT TRAIN	ON/OFF	OVERALL ON/OFF REPETITION
		TRAIN MAIN MOTOR OPERATION TEST. RUN BY SELECT BUTTON (ALSO BY GAME BUTTON)
	OFF	STOP TRAIN MAIN MOTOR
	ON	START TRAIN MAIN MOTOR
		BIGWIN FND [■ ■ ■ ■] : DISPLAY THE TIME TAKEN FOR ONE LAP OF THE TRAIN TICKET FND [■ □ □ □] : DISPLAY COUNTS OF MAIN MOTOR DIVIDING POINT SENSOR(0~F) [□ ■ □ □] : DISPLAY COUNTS OF TRAIN SPEED CONTROL STARTING POINT SENSOR(0~F) [□ □ ■ □] : DISPLAY COUNTS OF TRAIN SPEED CONTROL END SENSOR(0~F) [□ □ □ ■] : DISPLAY COUNTS OF TRAIN CAR CHECK SENSOR (0 ~ F) CREDIT FND [■ ■] : DISPLAY COUNTS OF MAIN MOTOR DIVIDING POINT SENSOR
MOT ELEVATOR		BALL ELEVATOR MOTOR OPERATION TEST. RUN BY SELECT BUTTON (ALSO BY GAME BUTTON)
	OFF	STOP TRAIN MAIN MOTOR
	ON	START TRAIN MAIN MOTOR
		BIGWIN FND [■ ■ ■ ■] : DISPLAY MOTOR STATUS " On " "OFF " TICKET FND [■ □ □ □] : DISPLAY STATUS OF BALL RETURN SENSOR (0, 1) [□ □ □ ■] : DISPLAY STATUS OF BALL ELEVATOR MOTOR DIVIDING POINT SENSOR (0, 1) CREDIT FND [■ ■] : DISPLAY COUNTS OF BALL ELEVATOR MOTOR DIVIDING POINT SENSOR
		BALL SHOOTER MOTOR OPERATION TEST. AFTER SELECTING THE MOTOR BY LEFT, RIGHT BUTTON AND RUN BY SELECT BUTTON (ALSO BY GAME BUTTON)
MOT SHOOTER	ALL	1P, 2P BALL SHOOTER MOTOR ON
	1P	1P BALL SHOOTER MOTOR ON
	2P	2P BALL SHOOTER MOTOR ON

MOT SHOOTER		BIGWIN FND [■ ■ ■ ■] : DISPLAY MOTOR STATUS “ On ” “OFF ” TICKET FND [■ □ □ □] : DISPLAY STATUS OF BALL SHOOTER MOTOR SENSOR (0, 1) [□ ■ □ □] : DISPLAY STATUS OF BALL IN SENSOR (0, 1) [□ □ ■ □] : DISPLAY STATUS OF BALL OUT SENSOR (0, 1) [□ □ □ ■] : DISPLAY STATUS OF BALL RAIL SENSOR (0, 1) CREDIT FND [■ ■] : DISPLAY CHECK COUNTS OF BALL SHOOTER MOTOR SENSOR
COIN		COIN MACHINE TEST. BY SELECT BUTTON BOTH OF 1P, 2P ON AND OFF BY 1P, 2P GAME BUTTON ON AND OFF SEPARATELY
	ON, OFF	COIN MACHINE ON, OFF
		BIGWIN FND [■ ■ ■ ■] : DISPLAY STATUS OF COIN MACHINE “ On “, “OFF “, “Err ” TICKET FND [■ □ □ □] : DISPLAY STATUS OF POWER OF COIN SENSOR (0 or 1) [□ □ □ ■] : DISPLAY STATUS OF COIN SENSOR (0 or 1) CREDIT FND [■ ■] : DISPLAY CHECK COUNTS OF COIN SENSOR (REPEATLY COUNTING 00 ~ 99)
BILL		BILL MACHINE TEST. BY SELECT BUTTON BOTH OF 1P, 2P ON AND OFF BY 1P, 2P GAME BUTTON ON AND OFF SEPARATELY
	ON, OFF	BILL ACCEPTOR ON, OFF
		BIGWIN FND [■ ■ ■ ■] : DISPLAY STATUS OF BILL ACCEPTOR “ On “, “OFF “ TICKET FND [■ □ □ □] : DISPLAY STATUS OF POWER OF BILL ACCEPTOR (0 or 1) [□ □ □ ■] : DISPLAY STATUS OF BILL ACCEPTOR SENSOR (0 or 1) CREDIT FND [■ ■] : DISPLAY CHECK COUNTS OF BILL ACCEPTOR SENSOR (REPEATLY COUNTING 00 ~ 99)
TICKET		TICKET MACHINE TEST AFTER SELECTING TICKET MACHINES BY LEFT, RIGHT BUTTON AND TEST BY SELECT BUTTON. BY 1P, 2P SERVICE AND GAME BUTTON ON AND OFF SEPARATELY (3 TICKETS DISPENSING)
	ALL	TEST ALL TICKET MACHINES (3 TICKETS DISPENSING)
	1P, 2P	TEST 1P AND 2P TICKET MACHINES(3TICKETS DISPENSING)
		BIGWIN FND [■ ■ ■ ■] : DISPLAY STATUS OF TICKET MACHINE “ On “, “OFF “, “Err ” TICKET FND [□ □ □ ■] : DISPLAY COUNTS OF DISPENSED TICKETS CREDIT FND : [■ □] : DISPLAY STATUS OF BUTTON OF TICKET MACHINE (0, 1) [□ ■] : DISPLAY STATUS OF SENSOR OF TICKET MACHINE (0, 1)
COUNTER		COUNTER MACHINE TEST. AFTER SELECTING COUNTER MACHINES BY LEFT, RIGHT BUTTON AND 1 COUNT UP BY SELECT BUTTON
	ON, OFF	TEST ALL TICKET COUNTERS. 1 COUNT UP EACH IN ORDER OF 1P ► 2P
SOUND TEST		SOUND TEST AFTER SELECTING SPEAKERS BY LEFT, RIGHT BUTTON AND TEST BY SELECT BUTTON (PLAY, STOP)
	CH	PLAY VOICE One ~ Eight BY EACH SPEAKER CHANNEL 1P LEFT : 1, 5 / 1P RIGHT : 2, 6 / 2P LEFT : 3, 7 / 2P RIGHT : 4, 8
	BGM	BGM SOUND TEST
	SFX	SFX SOUND TEST
	VOC	VOC SOUND TEST
EXIT		EXIT TO OPERATING OPTIONS

6 MAINTENANCE

1) Precautions for turning on the power.

: When it is newly turned on after power is turned off, the power must be turned on after 10 seconds.

2) When installing the device

: Connect the device with a ground outlet to which fg is connected.

3) Main board management.

: Dust removal on the main board will be carried out once a month.

4) Basic product management : Clean it regularly

5) This product should only be used for indoor use

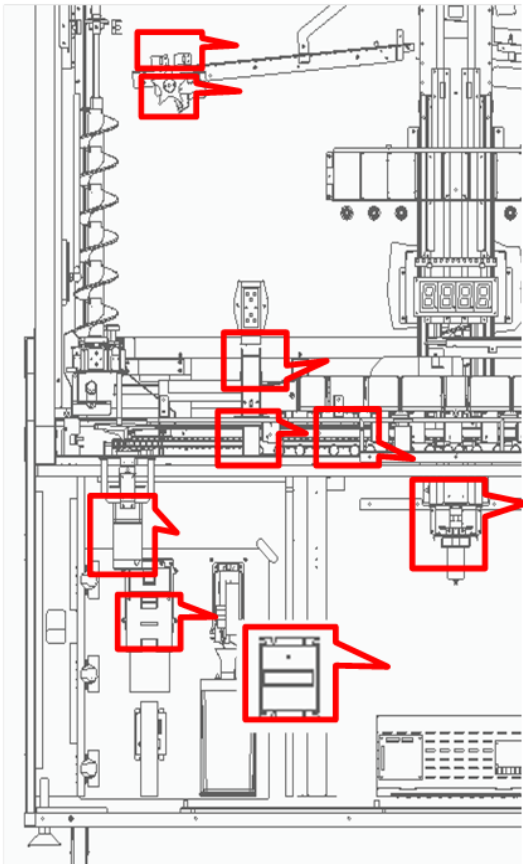
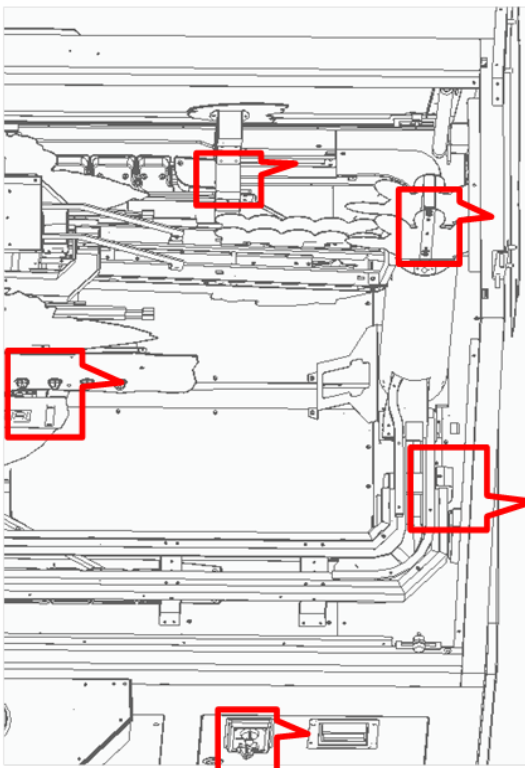
7 SOLUTION

1) ERROR CODES

SPONGEBOB TICKET COASTER

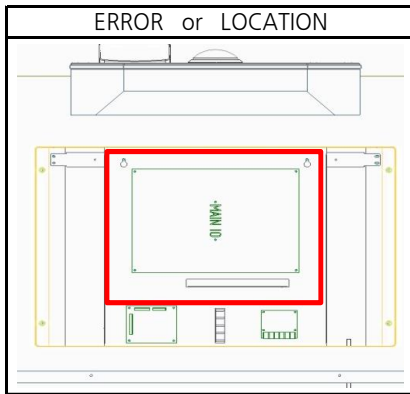
CODE	ERROR	NOTE
E.02	SYSTEM	SETUP SAVE DATA PROBLEM
E.03	SYSTEM	GAME SAVE DATA PROBLEM
E.11	COIN MACHINE	Coin sensor signal problem
E.13	BILL ACCEPTOR	Bill sensor signal problem
E.31	MAIN(TRAIN) MOTOR	Motor or encoder sensor problem
E.32	MAIN(TRAIN) SEQUENCE CHECK SENSOR	Sensor signal problem
E.33	TRAIN SPEED CONTROL START SENSOR	Sensor signal problem
E.34	TRAIN SPEED CONTROL END SENSOR	Sensor signal problem
E.41	BALL ELEVATOR MOTOR	Motor or encoder sensor problem
E.42	BALL RETURN SENSOR	Sensor signal problem
E.51	BALL SHOOTER SENSOR	Sensor signal problem
E.61	BALL IN SENSOR	Sensor signal problem
E.62	BALL OUT SENSOR	Sensor signal problem
E.63	BALL RAIL SENSOR	Sensor signal problem
E.64	BALL SUCCESS SENSOR	Sensor signal problem
HELP	TICKET	No ticket or motor, sensor problem

※ NORMALLY ERROR CODE WILL BE DISPLAYED AT PLAYER'S TICKETS FND / BIGWIN FND.

VIEW FRONT		VIEW UPPER	
	Er.61,62		Er.64
	Er.51		Er.33
	Er.64		Er.42
	Er.32		Er.63
	Er.34		
	Er.41		
	Er.31		
	HELP		
	Er.13		Er.11

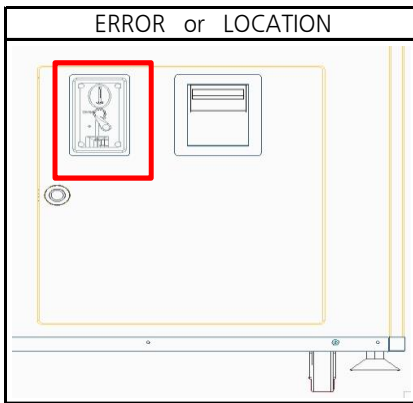
2) TROUBLESHOOTING

(1) SYSTEM ERROR (Er.02 , Er.03)



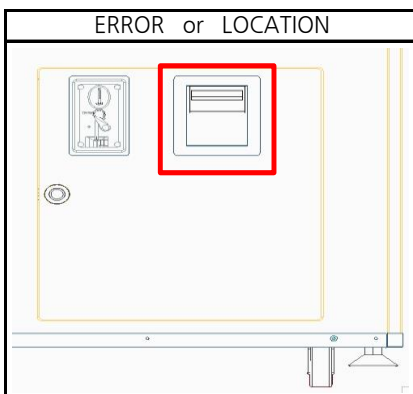
► SOLUTION			
1. CHECK : 1) Recheck after power off/on 2) Recheck after factory set 3) MAIN PCB replacement			
PART NAME		CODE	
MAIN I/O PCB ASS'Y		ASBT0ASS001	

(2) COIN MACHINE ERROR (Er.11)



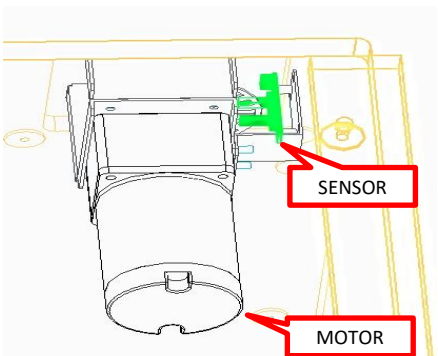
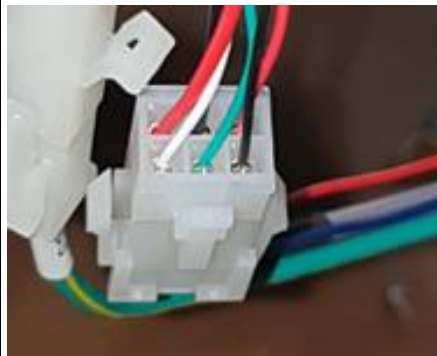
► SOLUTION			
1. TEST MODE → COIN TEST 2. CHECK : 1) Check whether COIN JAM 2) Check the cable connection status 3) REPLACE COIN MACHINE 4) MAIN PCB replacement			
PART NAME		CODE	
COIN SELECTOR		MZZZ0COS052	MAIN I/O PCB ASS'Y ASBT0ASS001

(3) BILL ACCEPTOR ERROR (Er.13)



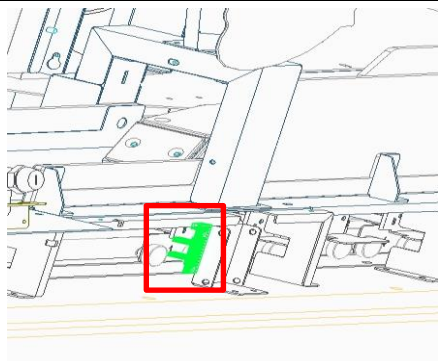
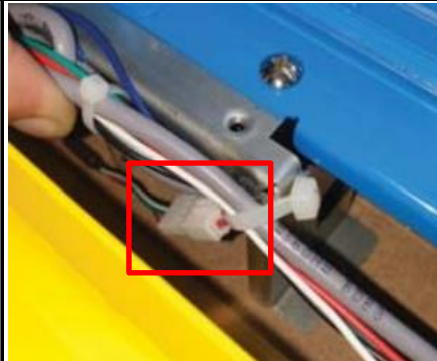
► SOLUTION			
1. TEST MODE → BILL TEST 2. CHECK : 1) Check whether BILL JAM 2) Check the cable connection status 3) REPLACE BILL ACCEPTOR 4) MAIN PCB replacement			
PART NAME		CODE	
MAIN I/O PCB ASS'Y		ASBT0ASS001	

(4) MAIN(TRAIN) MOTOR & SENSOR ERROR(Er.31)

ERROR or LOCATION	P1	P2							
		<table border="1"> <tr><td>3</td><td>2</td><td>1</td></tr> <tr><td>6</td><td>5</td><td>4</td></tr> </table>	3	2	1	6	5	4	
		3	2	1					
6	5	4							
		1	5V						
		2	GND						
		3	4.5V or more						
		4	4.5V or more						
		5	0.1V or less	detect					
			4.5V or more	undetected					
		6	GND						

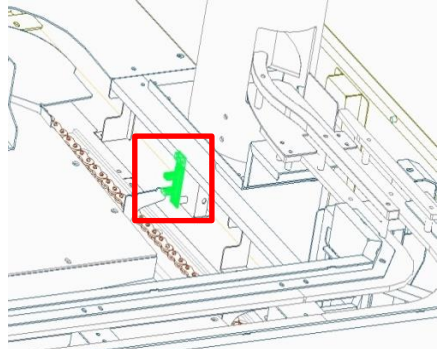

► SOLUTION			
<p>1. TEST MODE → MOT TRAIN TEST</p> <ul style="list-style-type: none"> ▶ TICKET FND : First digit change confirmation ▶ CREDIT FND : branch sensor display <p>2. CHECK :</p> <ol style="list-style-type: none"> 1) Check the assembly status of couplings and other motor connection devices 2) Check the cable connection (P1) 		<ol style="list-style-type: none"> 3) Check chain and fixture deformation 4) Motor voltage measurement (P2) 5) MOTOR replacement 6) Sensor PCB voltage measurement (P2) 7) SENSOR PCB replacement 8) MAIN PCB replacement 	
PART NAME	CODE	PART NAME	CODE
GEAR HEAD	MZZM0MOT019	MOTOR	MZZM0MOT016
PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103	MAIN I/O PCB ASS'Y	ASBT0ASS001

(5) MAIN(TRAIN) SEQUENCE CHECK SENSOR ERROR (Er.32)

ERROR or LOCATION	P1	P2					
		<table border="1"> <tr><td>1</td></tr> <tr><td>2</td></tr> <tr><td>3</td></tr> <tr><td>4</td></tr> </table>	1	2	3	4	
		1					
2							
3							
4							
		1	4.5V or more				
		2	4.5V or more				
		3	0.1V or less	detect			
			4.5V or more	undetected			
		4	GND				

► SOLUTION			
<p>1. TEST MODE → MOT TRAIN TEST</p> <ul style="list-style-type: none"> ▶ TICKET FND : 4th digit change confirmation <p>2. CHECK :</p> <ol style="list-style-type: none"> 1) Check the assembly status of chain and train injection moldings 2) Check the cable connection (P1) 		<ol style="list-style-type: none"> 3) Check Part Deformation (P1) 4) Sensor PCB voltage measurement (P2) 5) SENSOR PCB replacement 6) MAIN PCB replacement 	
PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103	MAIN I/O PCB ASS'Y	ASBT0ASS001

(6) TRAIN SPEED CONTROL START SENSOR ERROR (Er.33)

ERROR or LOCATION	P1	P2																
		<table border="1"> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> </table>	1		2		3		4									
1																		
2																		
3																		
4																		
		<table border="1"> <tr><td>1</td><td>4.5V or more</td><td></td></tr> <tr><td>2</td><td>4.5V or more</td><td></td></tr> <tr><td>3</td><td>0.1V or less</td><td>detect</td></tr> <tr><td></td><td>4.5V or more</td><td>undetected</td></tr> <tr><td>4</td><td>GND</td><td></td></tr> </table>	1	4.5V or more		2	4.5V or more		3	0.1V or less	detect		4.5V or more	undetected	4	GND		
1	4.5V or more																	
2	4.5V or more																	
3	0.1V or less	detect																
	4.5V or more	undetected																
4	GND																	

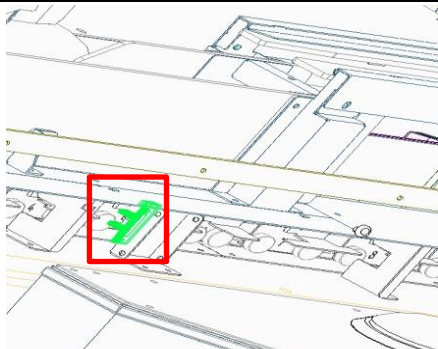
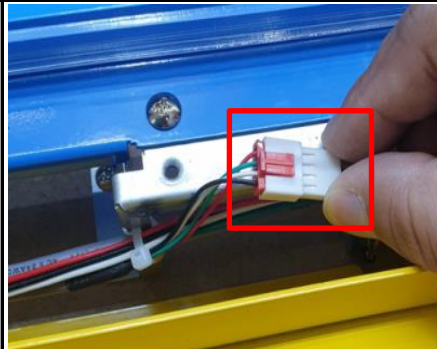
► SOLUTION

1. TEST MODE → MOT TRAIN TEST
 - TICKET FND : Check the second digit change
2. CHECK :
 - 1) Check the assembly status of chain and train injection moldings
 - 2) Check the cable connection (P1)

- 3) Check Part Deformation (P1)
- 4) Sensor PCB voltage measurement (P2)
- 5) SENSOR PCB replacement
- 6) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103	MAIN I/O PCB ASS'Y	ASBT0ASS001

(7) TRAIN SPEED CONTROL END SENSOR ERROR (Er.34)

ERROR or LOCATION	P1	P2																
		<table border="1"> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> </table>	1		2		3		4									
1																		
2																		
3																		
4																		
		<table border="1"> <tr><td>1</td><td>4.5V or more</td><td></td></tr> <tr><td>2</td><td>4.5V or more</td><td></td></tr> <tr><td>3</td><td>0.1V or less</td><td>detect</td></tr> <tr><td></td><td>4.5V or more</td><td>undetected</td></tr> <tr><td>4</td><td>GND</td><td></td></tr> </table>	1	4.5V or more		2	4.5V or more		3	0.1V or less	detect		4.5V or more	undetected	4	GND		
1	4.5V or more																	
2	4.5V or more																	
3	0.1V or less	detect																
	4.5V or more	undetected																
4	GND																	

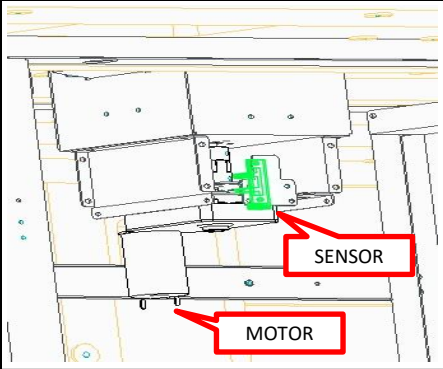
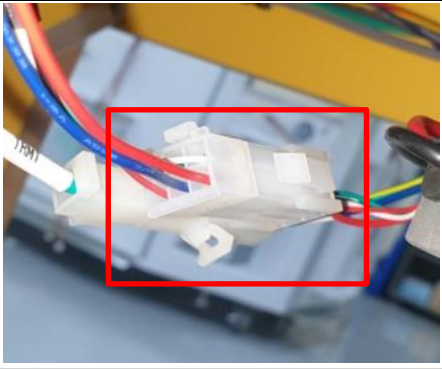
► SOLUTION

1. TEST MODE → MOT TRAIN TEST
 - TICKET FND : 3rd digit change confirmation
2. CHECK :
 - 1) Check the assembly status of chain and train injection moldings
 - 2) Check the cable connection (P1)

- 3) Check Part Deformation (P1)
- 4) Sensor PCB voltage measurement (P2)
- 5) SENSOR PCB replacement
- 6) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103	MAIN I/O PCB ASS'Y	ASBT0ASS001

(8) BALL ELEVATOR MOTOR & SENSOR ERROR(Er.41)

ERROR or LOCATION	P1	P2							
		<table border="1"> <tr> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> </tr> </table>		4	5	6	1	2	3
4	5	6							
1	2	3							
		1	11V or more						
		2	GND						
		3	4.5V or more						
		4	4.5V or more						
		5	0.1V or less detect						
			4.5V or more undetected						
		6	GND						

► SOLUTION

1. TEST MODE → MOT ELEVATOR TEST
 - BIGWIN FND : Check "ON" display
 - TICKET FND : 4th digit change confirmation
 - CREDIT FND : branch sensor display

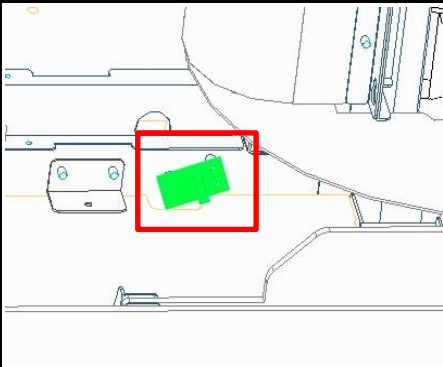

2. CHECK :

- 1) Check the assembly status of couplings and other motor connection devices

- 2) Check the cable connection (P1)
- 3) Check chain and fixture deformation
- 4) Motor voltage measurement (P2)
- 5) MOTOR replacement
- 6) Sensor PCB voltage measurement (P2)
- 7) SENSOR PCB replacement
- 8) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
MOTOR	MZZM0MOT008	PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103
MAIN I/O PCB ASS'Y	ASBT0ASS001		

(9) BALL RETURN SENSOR ERROR (Er.42)

ERROR or LOCATION	P1	P2									
		<table border="1"> <tr> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td></td> </tr> </table>		1		2		3		4	
1											
2											
3											
4											
		1	4.5V or more								
		2	4.5V or more								
		3	0.1V or less detect								
			4.5V or more undetected								
		4	GND								

► SOLUTION

1. TEST MODE → INPUT TEST
 - Output sound upon sensor recognition: 4

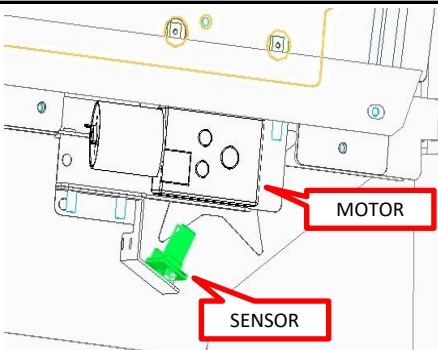

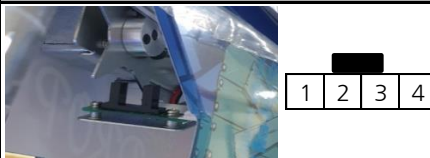
2. CHECK :

- 1) Check for ball jams & balls
- 2) Check the cable connection (P1)

- 3) Check Part Deformation (P1)
- 4) Sensor PCB voltage measurement (P2)
- 5) SENSOR PCB replacement
- 6) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
ELEVATOR DISK SENSOR PCB ASS'Y	AGHP0PCB020	MAIN I/O PCB ASS'Y	ASBT0ASS001

(10) BALL SHOOTER MOTOR & SENSOR ERROR (Er.51)

ERROR or LOCATION	P1	P2																			
	 <table border="1"> <tr><td>1</td><td>4V or more</td></tr> <tr><td>2</td><td>GND</td></tr> </table>	1	4V or more	2	GND	 <table border="1"> <tr><td>1</td><td>4.5V or more</td><td></td></tr> <tr><td>2</td><td>4.5V or more</td><td></td></tr> <tr><td>3</td><td>0.1V or less</td><td>detect</td></tr> <tr><td></td><td>4.5V or more</td><td>undetected</td></tr> <tr><td>4</td><td>GND</td><td></td></tr> </table>	1	4.5V or more		2	4.5V or more		3	0.1V or less	detect		4.5V or more	undetected	4	GND	
1	4V or more																				
2	GND																				
1	4.5V or more																				
2	4.5V or more																				
3	0.1V or less	detect																			
	4.5V or more	undetected																			
4	GND																				


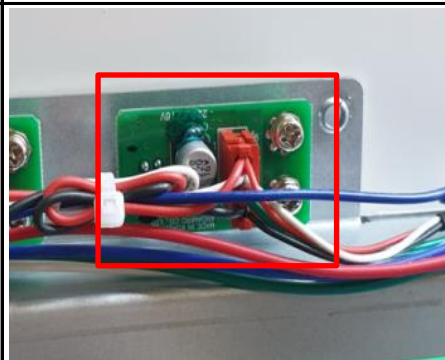
► SOLUTION

1. TEST MODE → MOT TRAIN TEST
 - BIGWIN FND : Check "ON" display
 - TICKET FND : Check first digit change
 - CREDIT FND : Check the number of balls fired
2. CHECK :
 - 1) Assembling the motor, checking the assembly status of parts

- 2) Check the cable connection (P1,P2)
- 3) Check Part Deformation (P1)
- 4) Motor voltage measurement (P1)
- 5) MOTOR replacement
- 6) Sensor PCB voltage measurement (P2)
- 7) SENSOR PCB replacement
- 8) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT170	PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103
MAIN I/O PCB ASS'Y	ASBT0ASS001		

(11) BALL IN SENSOR ERROR (Er.61)

ERROR or LOCATION	P1	P2																							
		<table border="1"> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> </table> <table border="1"> <tr><td>1</td><td>4.5V or more</td><td></td></tr> <tr><td>2</td><td>4.5V or more</td><td></td></tr> <tr><td>3</td><td>0.1V or less</td><td>detect</td></tr> <tr><td></td><td>4.5V or more</td><td>undetected</td></tr> <tr><td>4</td><td>GND</td><td></td></tr> </table>	1		2		3		4		1	4.5V or more		2	4.5V or more		3	0.1V or less	detect		4.5V or more	undetected	4	GND	
1																									
2																									
3																									
4																									
1	4.5V or more																								
2	4.5V or more																								
3	0.1V or less	detect																							
	4.5V or more	undetected																							
4	GND																								


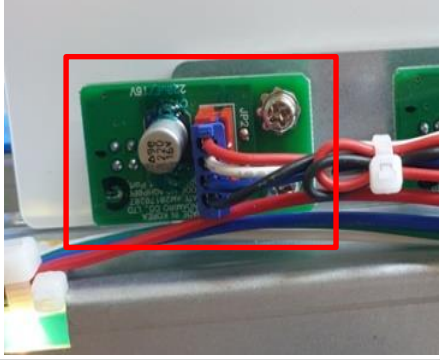
► SOLUTION

1. TEST MODE → MOT SHOOTER TEST
 - TICKET FND : Check the second digit change
2. CHECK :
 - 1) make sure the ball is there
 - 2) If there's no ball, put the ball on top, clear the error, and retest.

- 3) Check cable & connector connection status (P1)
- 4) Sensor PCB voltage measurement (P2)
- 5) SENSOR PCB replacement
- 6) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
ELEVATOR DISK SENSOR PCB ASS'Y	AGHP0PCB020	MAIN I/O PCB ASS'Y	ASBT0ASS001

(12) BALL OUT SENSOR ERROR (Er.62)

ERROR or LOCATION	P1	P2																										
		<table border="1"> <tr><td>1</td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td></tr> </table> <table border="1"> <tr><td>1</td><td>4.5V or more</td><td></td></tr> <tr><td>2</td><td>4.5V or more</td><td></td></tr> <tr><td rowspan="2">3</td><td>0.1V or less</td><td>detect</td></tr> <tr><td>4.5V or more</td><td>undetected</td></tr> <tr><td>4</td><td>GND</td><td></td></tr> </table>	1			2			3			4			1	4.5V or more		2	4.5V or more		3	0.1V or less	detect	4.5V or more	undetected	4	GND	
1																												
2																												
3																												
4																												
1	4.5V or more																											
2	4.5V or more																											
3	0.1V or less	detect																										
	4.5V or more	undetected																										
4	GND																											

► SOLUTION

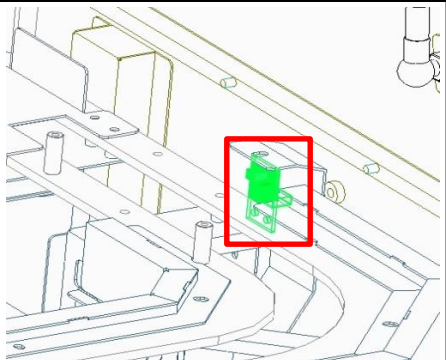
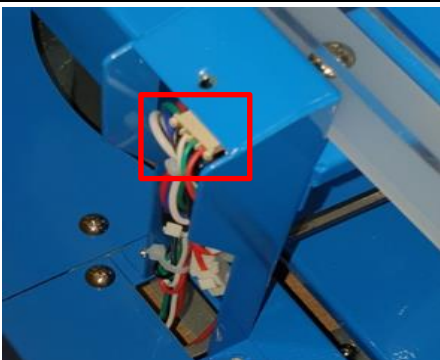
1. TEST MODE → MOT SHOOTER TEST
 ► TICKET FND : 3rd digit change confirmation

2. CHECK :
 1) Check if there is a ball jam, stagnant ball, or ball
 2) If there's no ball, put the ball on top, clear the error, and retest.

3) Check cable & connector connection status (P1)
 4) Sensor PCB voltage measurement (P2)
 5) SENSOR PCB replacement
 6) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
ELEVATOR DISK SENSOR PCB ASS'Y	AGHP0PCB020	MAIN I/O PCB ASS'Y	ASBT0ASS001

(13) BALL RAIL SENSOR ERROR (Er.63)

ERROR or LOCATION	P1	P2																		
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4	3	2	1																	
1	4.5V or more																			
2	4.5V or more																			
3	0.1V or less	detect																		
	4.5V or more	undetected																		
4	GND																			

► SOLUTION

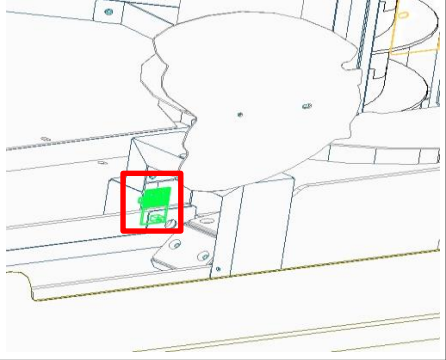
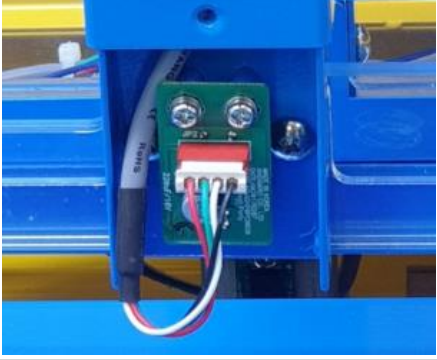
1. TEST MODE → INPUT TEST
 ► Speaker sound upon sensor recognition: 7

2. CHECK :
 1) Check if there is a ball jam, stagnant ball, or ball
 2) Check cable & connector connection status (P1)

3) Check part deformation
 4) Sensor PCB voltage measurement (P2)
 5) SENSOR PCB replacement
 6) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
ELEVATOR DISK SENSOR PCB ASS'Y	AGHP0PCB020	MAIN I/O PCB ASS'Y	ASBT0ASS001

(14) BALL SUCCESS SENSOR ERROR (Er.64)

ERROR or LOCATION	P1	P2																										
		<table border="1"> <tr><td>1</td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td></tr> </table> <table border="1"> <tr><td>1</td><td>4.5V or more</td><td></td></tr> <tr><td>2</td><td>4.5V or more</td><td></td></tr> <tr><td rowspan="2">3</td><td>0.1V or less</td><td>detect</td></tr> <tr><td>4.5V or more</td><td>undetected</td></tr> <tr><td>4</td><td>GND</td><td></td></tr> </table>	1			2			3			4			1	4.5V or more		2	4.5V or more		3	0.1V or less	detect	4.5V or more	undetected	4	GND	
1																												
2																												
3																												
4																												
1	4.5V or more																											
2	4.5V or more																											
3	0.1V or less	detect																										
	4.5V or more	undetected																										
4	GND																											

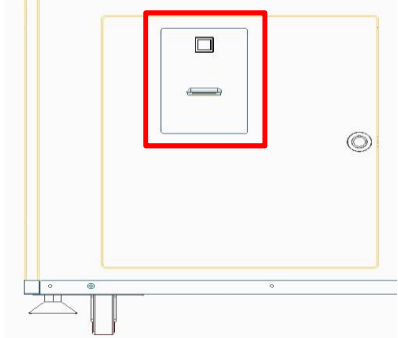
► SOLUTION

1. TEST MODE → INPUT TEST
 - Speaker sound upon sensor recognition: 6
2. CHECK :
 - 1) Check for foreign objects and balls
 - 2) Check cable & connector connection status (P1)

- 3) Check part deformation
- 4) Sensor PCB voltage measurement (P2)
- 5) SENSOR PCB replacement
- 6) MAIN PCB replacement

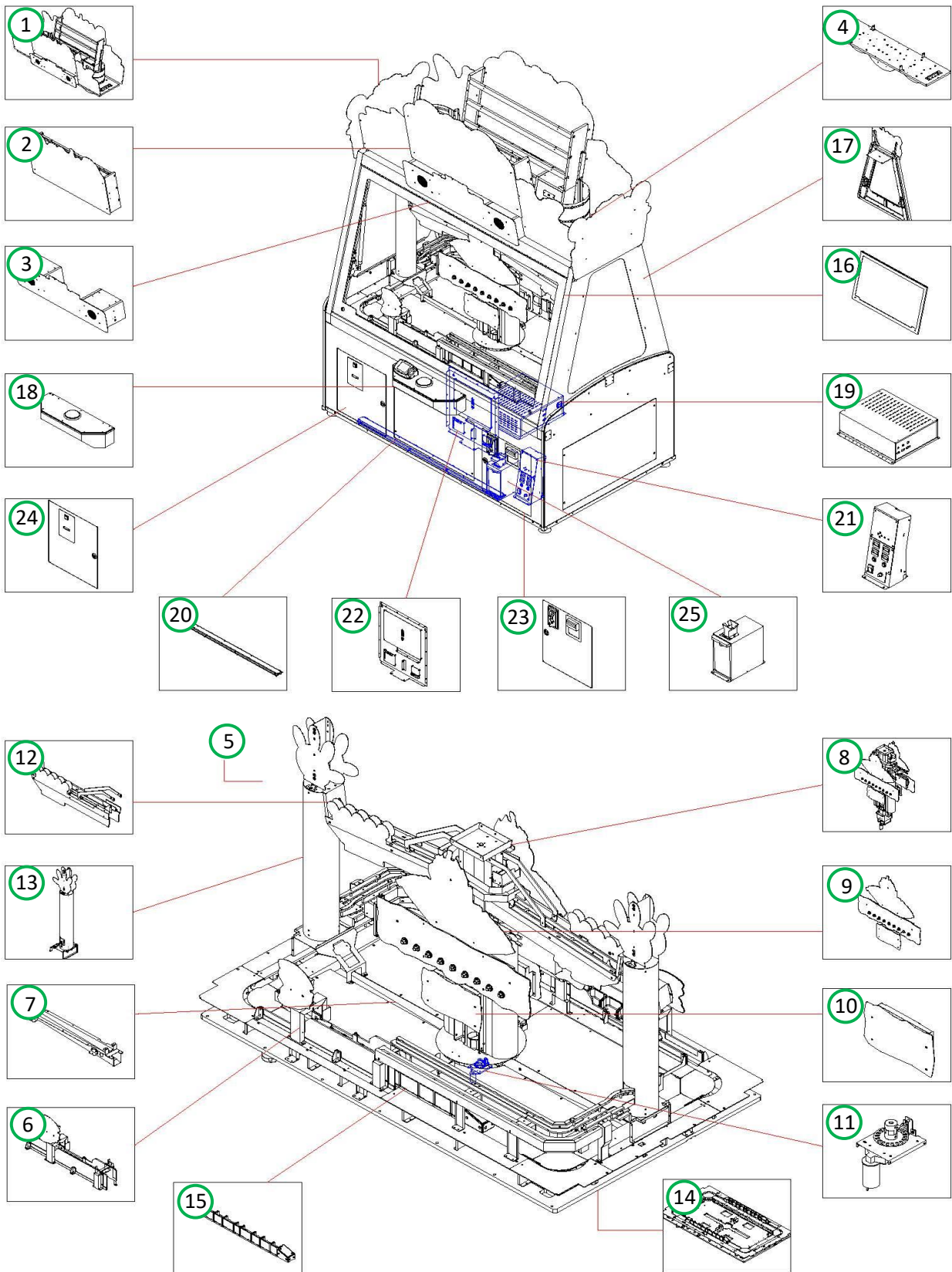
PART NAME	CODE	PART NAME	CODE
ELEVATOR DISK SENSOR PCB ASS'Y	AGHP0PCB020	MAIN I/O PCB ASS'Y	ASBT0ASS001

(15) TICKET ERROR (HELP)

ERROR or LOCATION	► SOLUTION		
	<ol style="list-style-type: none"> 1. TEST MODE → TICKET TEST 2. CHECK : <ol style="list-style-type: none"> 1) Check whether TICKET JAM 2) Check the cable connection status 3) REPLACE TICKET DISPENSER 4) MAIN PCB replacement 		
PART NAME	CODE	PART NAME	CODE
MAIN I/O PCB ASS'Y	ASBT0ASS001	TICKET DISPENSER	MZZZ0TID010

8 EXPLODED VIEW

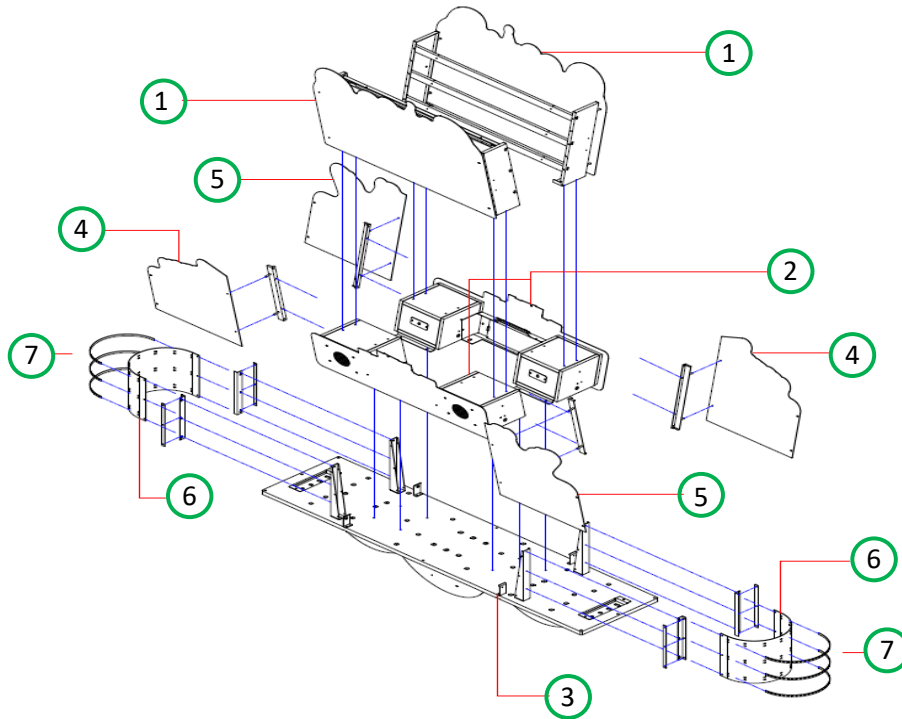
► FULL DESCRIPTION



NO	PART NAME	SPEC	Q'TY	PAGE
1	BILLBOARD TOTAL PART	-	1	
2	ASS'Y BILLBOARD TITLE PART	-	2	
3	ASS'Y-BILLBOARD BIGWIN SPEAKER PART	-	2	
4	ASS'Y-BILLBOARD BOTTOM PLATE PART	-	2	
5	ASS'Y-GAME PLAYFIELD TOTAL PART	-	1	
6	ASS'Y-TRAIN SIDE FENCE PART	-	2	
7	ASS'Y-BALL RETURN CHUTE PART	-	2	
8	ASS'Y-BALL LIFT SCREW PART	-	2	
9	ASS'Y-BALL LIFT SCREW TRAIN LED PART	-	2	
10	BALL LIFT SCREW SCORE FND PART	-	2	
11	BALL LIFT SCREW MOTOR PART	-	1	
12	ASS'Y-UPPER RAIL PART	-	2	
13	ASS'Y-BALL SCREW PIPE PART	-	2	
14	ASS'Y-CHAIN MAIN PLATE PART	-	1	
15	ASS'Y-TRAIN TOTAL PART	-	2	
16	ASS'Y-CABINET DOOR TOTAL PART	-	2	
17	ASS'Y-CABINET SIDE FRAME TOTAL PART	-	2	
18	ASS'Y-BUTTON TOTAL PART	-	2	
19	ASS'Y-POWER SMPS BOX PART	-	1	
20	ASS'Y-BOTTOM LED PART	-	2	
21	ASS'Y-CONTROL PANEL TOTAL PART	-	1	
22	ASS'Y-MAIN BOARD PART	-	1	
23	ASS'Y-CABINET COIN DOOR PART	-	2	
24	ASS'Y-CABINET TICKET DOOR PART	-	2	
25	ASS'Y-COIN BOX PART	-	1	

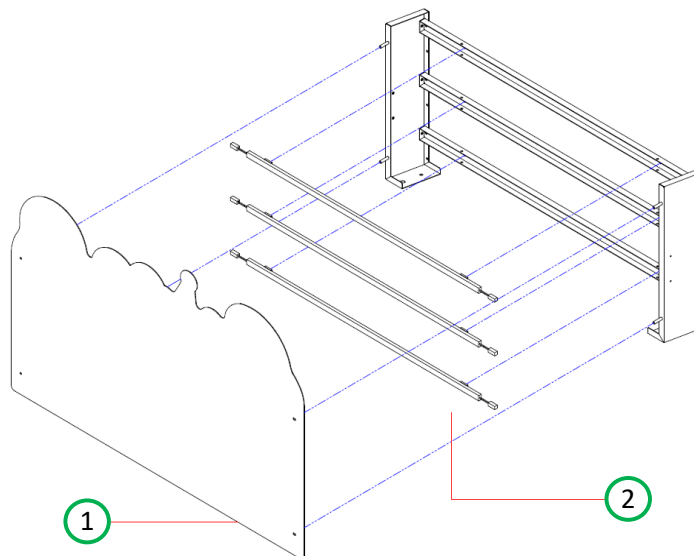
► DETAILED EXPLANATION

1) BILLBOARD TOTAL PART



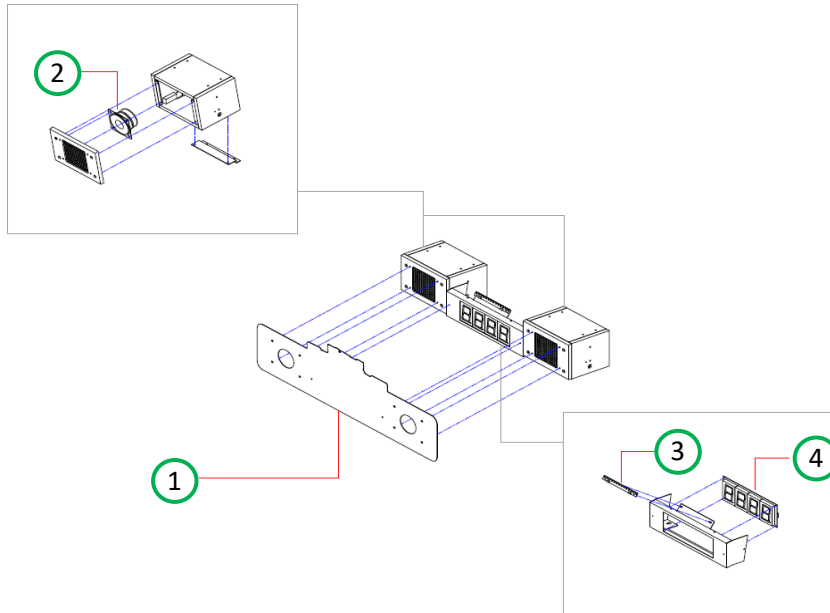
NO	PART NAME	SPEC	Q'TY	CODE NO
1	ASS'Y-BILLBOARD TITLE PART	-	2	-
2	ASS'Y-BILLBOARD BIGWIN SPEAKER PART	-	2	-
3	ASS'Y-BILLBOARD BOTTOM PLATE PART	-	1	-
4	BILLBOARD DECO ACRYL-L	PET 1.5t	2	ASBT0ACP010
5	BILLBOARD DECO ACRYL-R	PET 1.5t	2	ASBT0ACP011
6	BILLBOARD SIDE FLEXIBLE LED PET ACRYL	PET 1.0t	2	MSBT0ACR011
7	BILLBOARD FLEX_LED PCB	LR_27	6	MELE0LED095

2) ASS'Y BILLBOARD TITLE PART



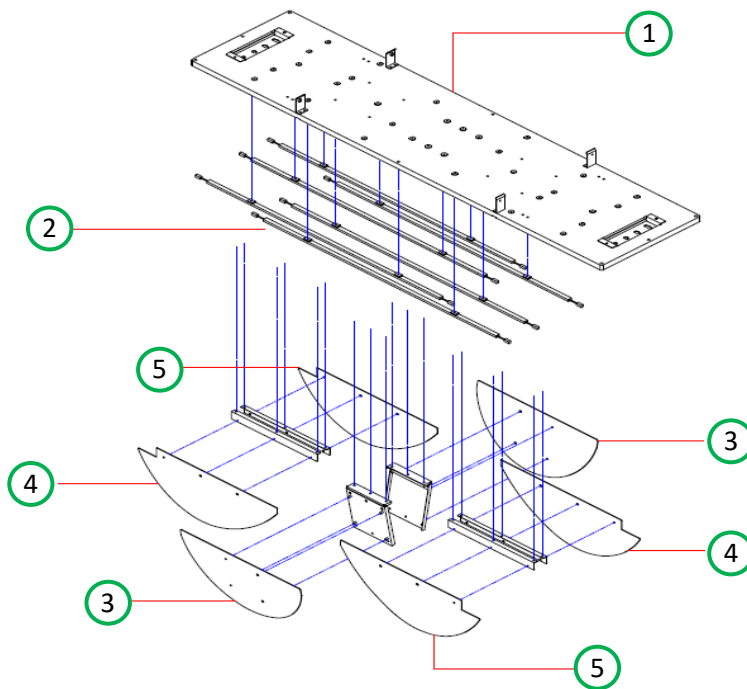
NO	PART NAME	SPEC	Q'TY	CODE NO
1	BILLBOARD TITLE COVER ACRYL	-	1	ASBT0ACP013
2	LED BAR 12V ASS'Y	710MM	3	AZZ0PCB165

3) ASS'Y- BILLBOARD BIGWIN SPEAKER PART



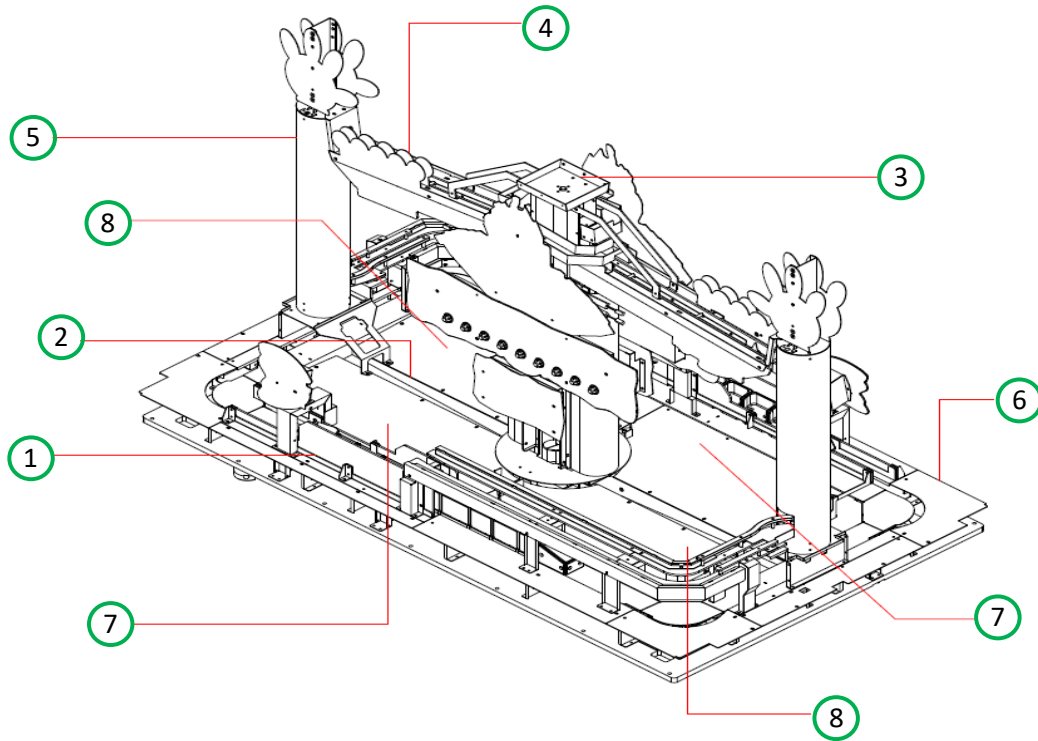
NO	PART NAME	SPEC	Q'TY	CODE NO
1	BILLBOARD BIGWIN FND COVER ACRYL	PET 1.5t	1	ASBT0ACP006
2	SPEAKER	4.5INCH	2	MZZZ0SPE021
3	JWIE LED PCB	-	1	AJIE0PCB006
4	FND PCB	6390-04	3	AFND0PCB011

4) ASS'Y- BILLBOARD BOTTOM PLATE PART



NO	PART NAME	SPEC	Q'TY	CODE NO
1	BILLBOARD BOTTOM PLATE	MDF-20t, YELLOW SHEET	1	MSBT0WOO001
2	LED BAR 12V ASS'Y	910MM	6	AZZZ0PCB128
3	BILLBOARD BLS TOP COVER ACRYL	PET 1.5t	2	ASBT0ACP007
4	BILLBOARD CENTER DECO ACRYL-L	PET 1.5t	2	ASBT0ACP008
5	BILLBOARD CENTER DECO ACRYL-R	PET 1.5t	2	ASBT0ACP009

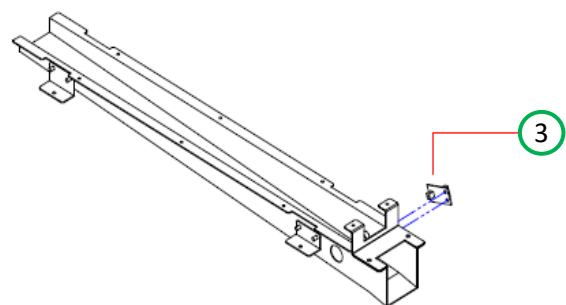
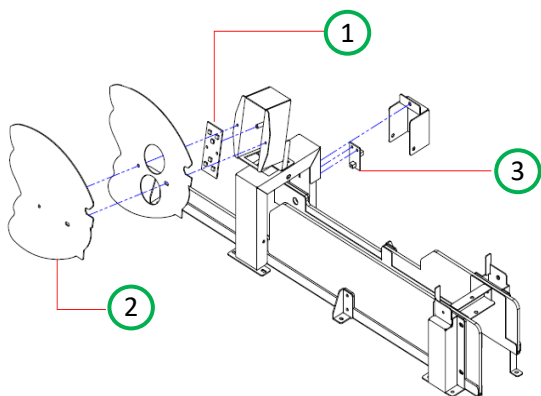
5) ASS'Y- GAME PLAYFIELD TOTAL PART



NO	PART NAME	SPEC	Q'TY	CODE NO
1	ASS'Y-TRAIN SIDE FENCE PART	-	2	-
2	ASS'Y-BALL RETURN CHUTE PART	-	2	-
3	ASS'Y-BALL LIFT SCREW PART	-	1	-
4	ASS'Y-UPPER RAIL PART	-	2	-
5	ASS'Y-BALL SCREW PIPE PART	-	2	-
6	ASS'Y-CHAIN MAIN PLATE PART	-	1	-
7	PLAYFIELD INNER COVER ACRYL-L	PET 1.5t	2	ASBT0ACP017
8	PLAYFIELD INNER COVER ACRYL-R	PET 1.5t	2	ASBT0ACP018

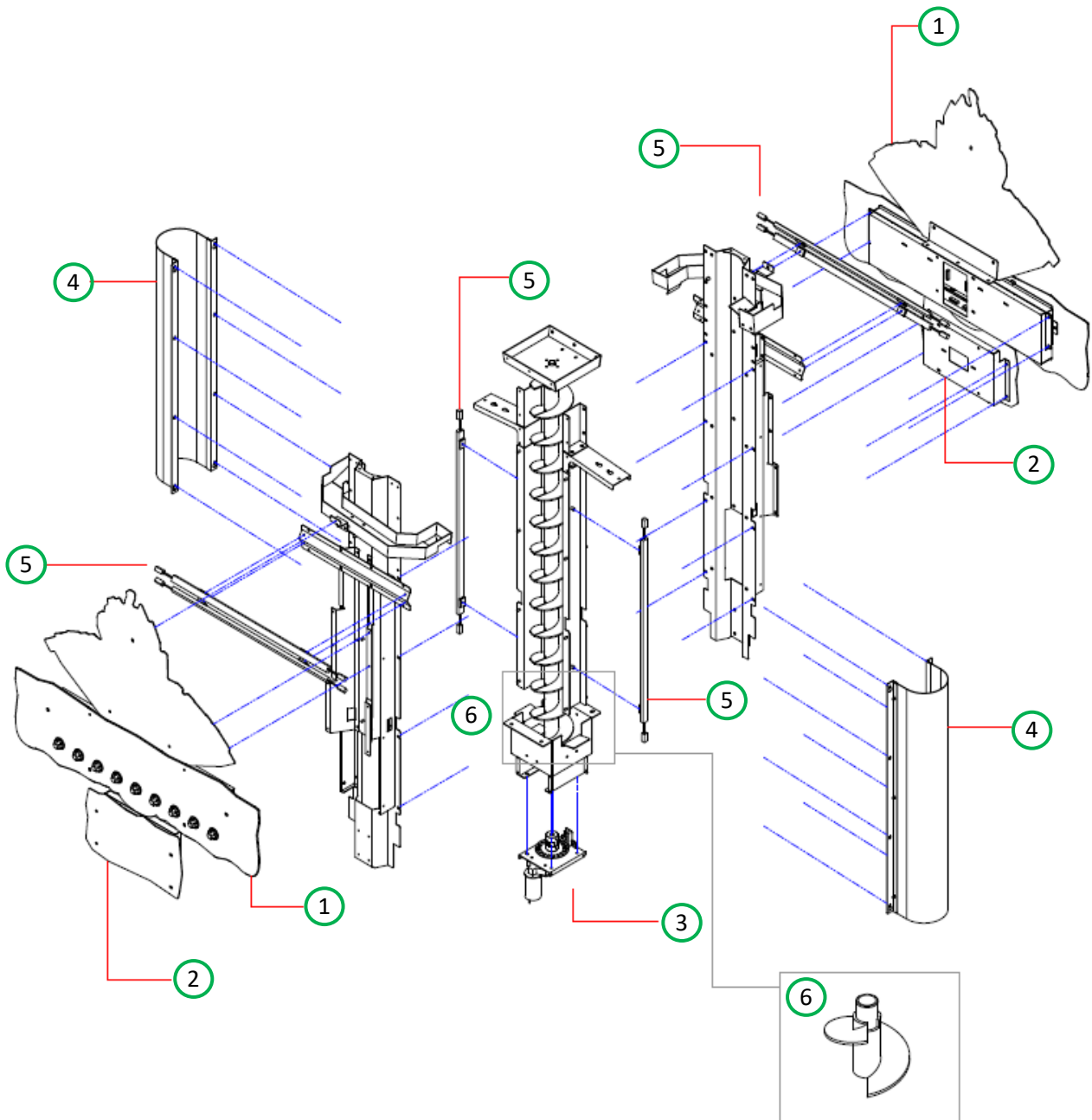
6) ASS'Y- GAME PLAYFIELD TOTAL PART

7) ASS'Y- GAME PLAYFIELD TOTAL PART



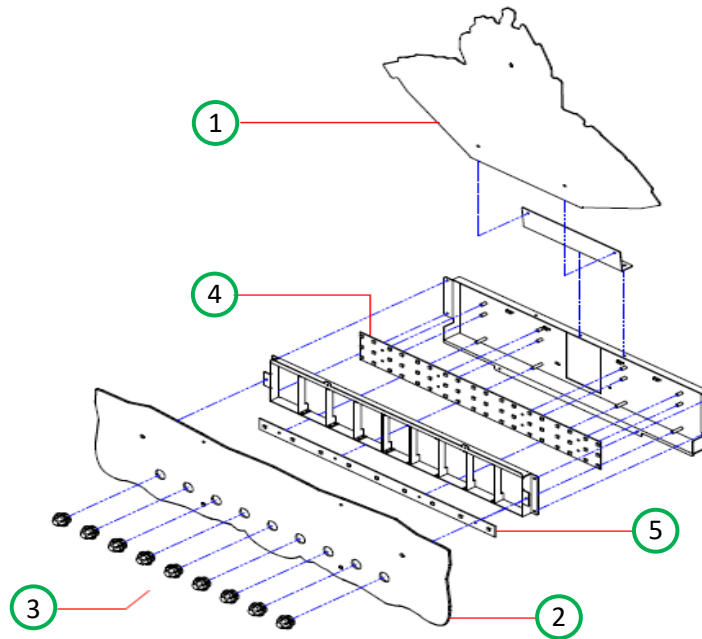
NO	PART NAME	SPEC	Q'TY	CODE NO
1	TRAIN BALL CHECK UPPER LED PCB	-	1	ATTT0PCB009
2	TRAIN BALL CHECK UPPER LED COVER	ACRYL-1.5t	1	ASBT0ACP037
3	ELEVATOR DISK SENSOR PCB	-	1	AGHP0PCB020

8) ASS'Y- BALL LIFT SCREW PART



NO	PART NAME	SPEC	Q'TY	CODE NO
1	ASS'Y-BALL LEFT SCREW TRAIN LED PART	-	2	-
2	ASS'Y-BALL LEIFT SCREW SCORE FND PART	-	2	-
3	ASS'Y-BALL LIFT SCREW MOTOR PART	-	1	-
4	BILLBOARD BIGWIN FND COVER ACRYL	-	1	-
5	LED BAR 12V ASS'Y	460MM	6	AZZZ0PCB124
6	SCREW	PC ABS BLACK	13	MDOS0PLA001

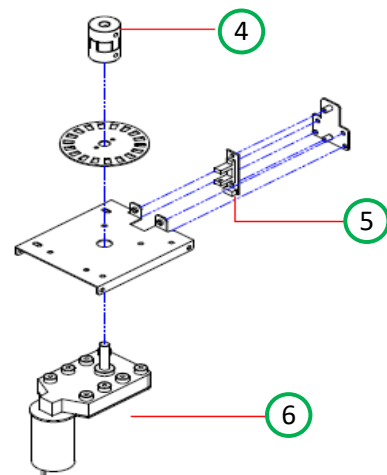
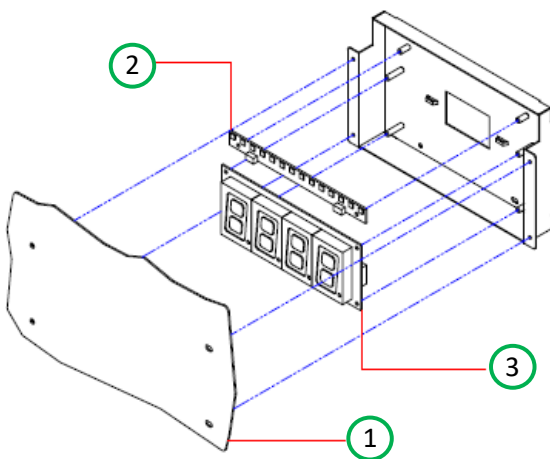
9) ASS'Y- BALL LIFT SCREW TRAIN LED PART



NO	PART NAME	SPEC	Q'TY	CODE NO
1	BALL LIFT SCREW SUPER BONUS COVER ACRYL	PET-1.5t	1	ASBT0ACP002
2	BALL LIFT SCREW TRAIN LED COVER ACRYL	ACRYL-2.7t	1	ASBT0ACP003
3	LED CAP	Φ20	9	MZZZ0PLA037
4	TRAIN SCORE LED PCB	-	1	ASBT0PCB002
5	TRAIN SCORE CAP LED PCB	-	1	ASBT0PCB003

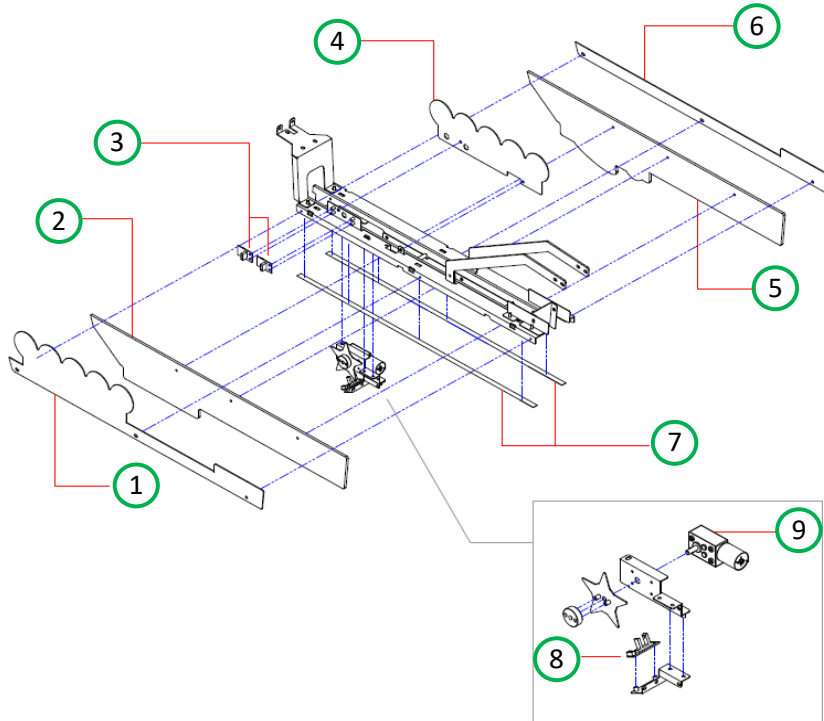
10) ASS'Y- BALL LIFT SCREW SCORE FND PART

11) ASS'Y- BALL LIFT SCREW MOTOR PART



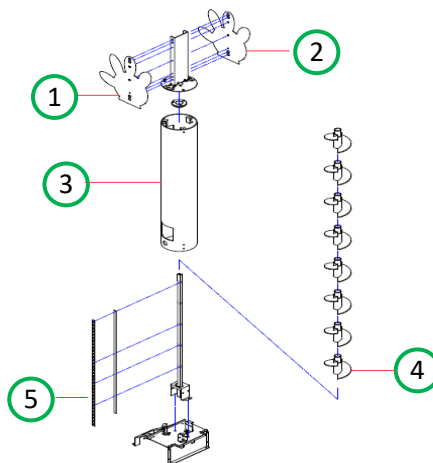
NO	PART NAME	SPEC	Q'TY	CODE NO
1	BALL LIFT SCREW SCORE FND COVER ACRYL	PET-1.5t	1	ASBT0ACP001
2	JWIE LED PCB	-	1	AJIE0PCB006
3	FND PCB	3856-4	1	AFND0PCB007
4	COUPLING	CR050	1	AZZZ0COP003
5	PHOTO-INT1 PCB	ANGLE TYPE	3	AZZZ0PCB103
6	MOTOR	KGE-062-KD3657U1	1	MZZM0MOT008

12) ASS'Y- UPPER RAIL PART



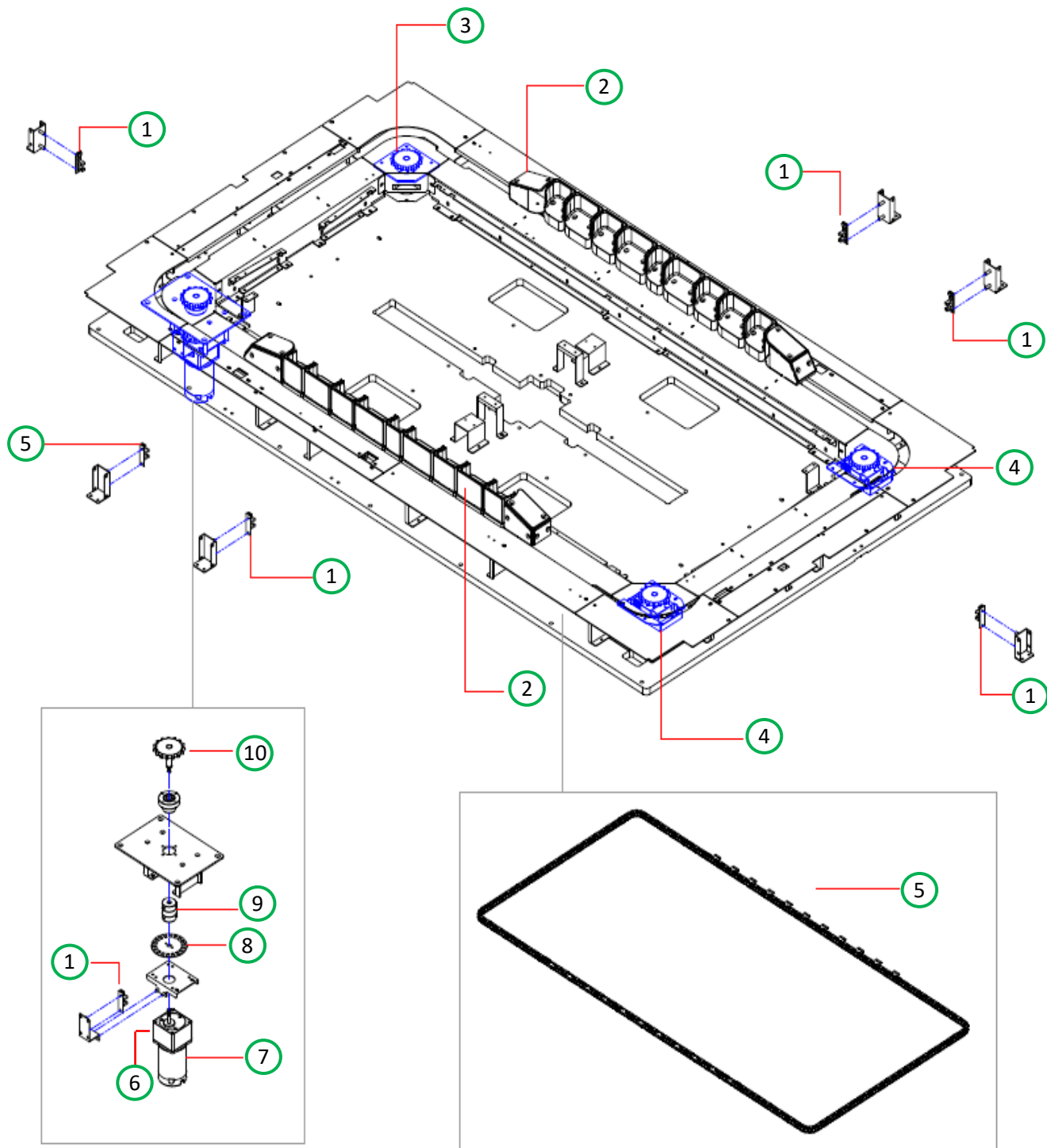
NO	PART NAME	SPEC	Q'TY	CODE NO
1	UPPER RAIL LED COVER ACRYL-R	PET-1.5t	1	ASBT0ACP033
2	UPPER RAIL LED DISPLAY ACRYL-L	ACRYL-4.7t	1	ASBT0ACP034
3	ELEVATOR DISK SENSOR PCB	-	2	AGHP0PCB020
4	UPPER RAIL SENSOR COVER ACRYL	PET-1.5t	1	ASBT0ACP036
5	UPPER RAIL LED DISPLAY ACRYL-R	ACRYL-4.7t	1	ASBT0ACP035
6	UPPER RAIL LED COVER ACRYL-L	PET-1.5t	1	ASBT0ACP032
7	FLEX_LED	LR_35	2	MELE0LED099
8	PHOTO-INT1 PCB	-	1	ACIROPCB011
9	MOTOR	KWA-KD2531U1-0150	1	MZZZ0MOT170

13) ASS'Y- BALL SCREW PIPE PART



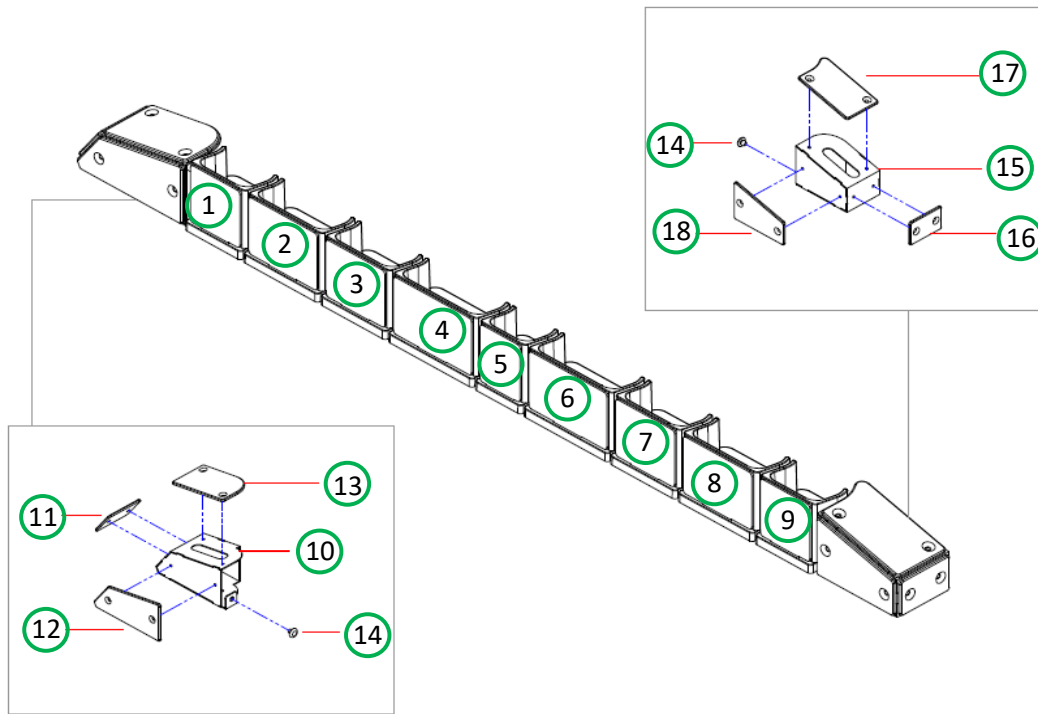
NO	PART NAME	SPEC	Q'TY	CODE NO
1	BALL SCREW PIPE UPPER ACRYL-R	PET-1.5t	1	ASBT0ACP005
2	BALL SCREW PIPE UPPER ACRYL-L	PET-1.5t	1	ASBT0ACP004
3	BALL SCREW PIPE ACRYL	PC PIPE-3t	1	MSBT0ACR009
4	SCREW	ACETAL	8	MSBT0PLA001
5	FLEX_LED	LR_32	1	MELE0LED098

14) ASS'Y- BALL SCREW PIPE PART



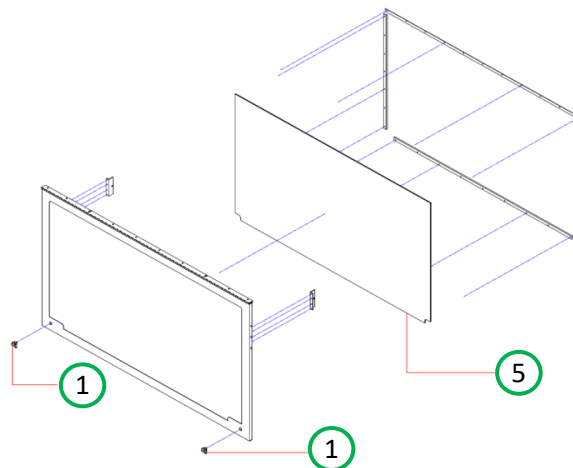
NO	PART NAME	SPEC	Q'TY	CODE NO
1	PHOTO-INT1 PCB	ANGLE TYPE	9	AZZ0PCB103
2	ASS'Y-TRAIN TOTAL PART	-	2	-
3	ASS'Y-IDLE SPROCET PART	-	1	MSBT0PRO006
4	ASS'Y-TENSION SPROCET PART	-	2	MSBT0PRO012
5	CHAIN	RS40_328LINK	1	MSBT0CHA001
6	MOTOR GEAR HEAD	K6G30C	1	MZZM0MOT019
7	MOTOR	K6DG15N1	1	MZZM0MOT016
8	MOTOR SPROCKET ENCODER BKT	GI-1.2t	1	MSBT0MEP167
9	COUPLING	JOC30	1	MZZZ0COP002
10	SPROCKET_RS40_15t	-	1	MSBT0PRO006-01

15) ASS'Y- TRAIN TOTAL PART



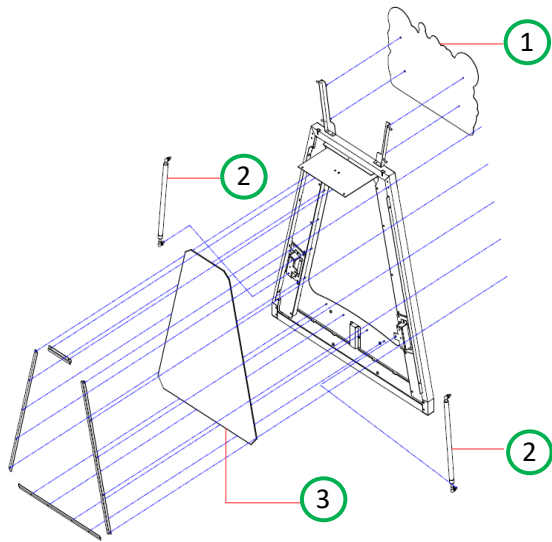
NO	PART NAME	Q'TY	CODE NO	NO	PART NAME	Q'TY	CODE NO
1	TRAN-A ASS'Y(REDF)	1	ASBT0ASS002	10	TRAIN HEAD BKT-L	1	MSBT0MEP205
2	TRAN-B ASS'Y(PINK)	1	ASBT0ASS004	11	TRAIN HEAD FRONT ACRYL-L	1	ASBT0ACP019
3	TRAN-C ASS'Y(BLUE)	1	ASBT0ASS006	12	TRAIN HEAD SIDE ACRYL-L	1	ASBT0ACP020
4	TRAN-D ASS'Y(CYAN)	1	ASBT0ASS008	13	TRAIN HEAD TOP ACRYL-L	1	ASBT0ACP021
5	TRAN-E ASS'Y(YELLOW)	1	ASBT0ASS010	14	PLUG CUSHION RUBBER	1	MCIR0RUB001
6	TRAN-D ASS'Y(PURPLE)	1	ASBT0ASS009	15	TRAIN HEAD BKT-R	1	MSBT0MEP231
7	TRAN-C ASS'Y(GRAY)	1	ASBT0ASS007	16	TRAIN HEAD FRONT ACRYL-R	1	ASBT0ACP039
8	TRAN-B ASS'Y(IUMINESCENCE)	1	ASBT0ASS005	17	TRAIN HEAD TOP ACRYL-R	1	ASBT0ACP022
9	TRAN-A ASS'Y(GREEN)	1	ASBT0ASS003	18	TRAIN HEAD SIDE ACRYL-F	1	ASBT0ACP038

16) ASS'Y- CABINET DOOR TOTAL PART

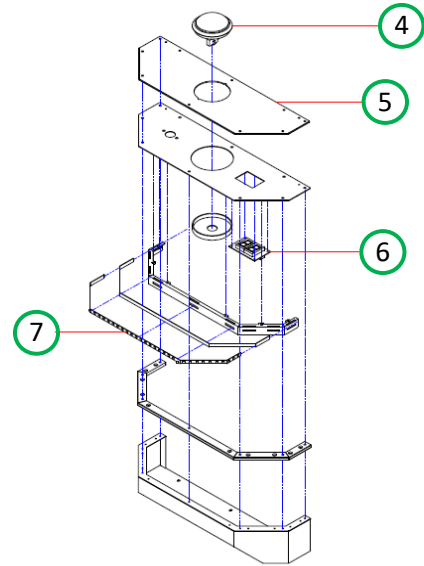


NO	PART NAME	SPEC	Q'TY	CODE NO
1	KEY ASS'Y	-	1	MZZZ0KEY076
2	CABINET DOOR GLASS	GLASS-5t	1	MSBT0GLA001

17) ASS'Y- CABINET SIDE FRAME TOTAL PART

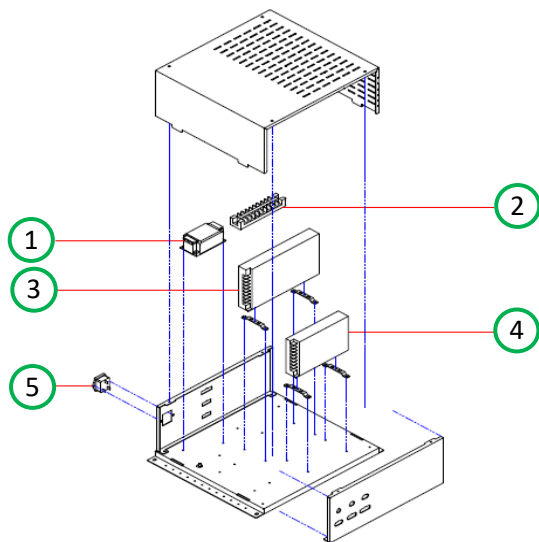


18) ASS'Y- BUTTON TOTAL PART

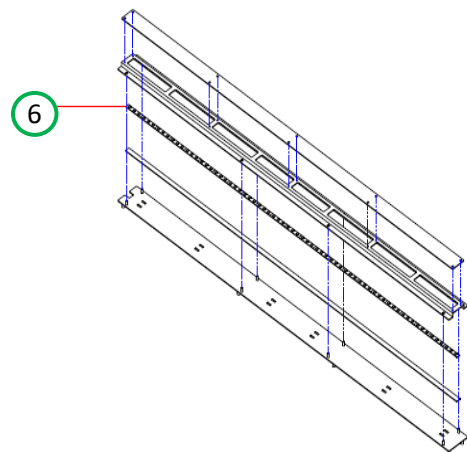


NO	PART NAME	SPEC	Q'TY	CODE NO
1	BILLBOARD SIDE POP COVER ACRYL	PET-1.5t	1	ASBT0ACP012
2	GAS SPRING	GSB-22X761-30KG	2	MZZZ0SHO014
3	CABINET SIDE GLASS	GLASS-5t	1	MSBT0GLA002
4	BUTTON SWITCH	CWB 401	1	MZZZ0BUT080
5	BUTTON LED COVER ACRYL	ACRYL-2.7t	1	ASBT0ACP014
6	FND PCB	2941-2	1	AFND0PCB003
7	FLEX_LED	LR_36	1	MELE0LED101

19) ASS'Y- POWER SMPS BOX PART

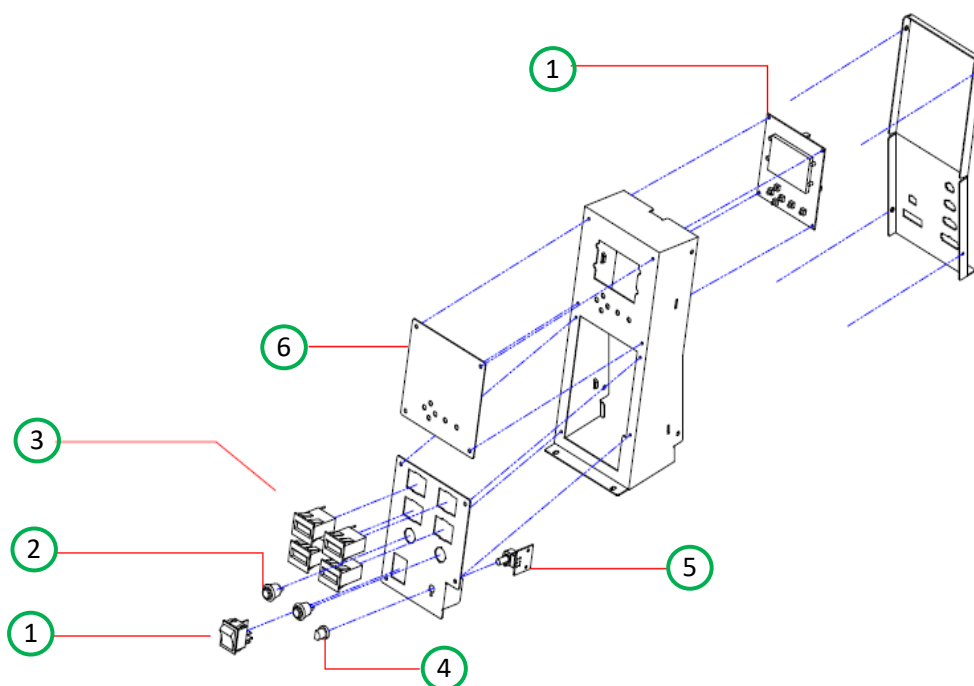


20) ASS'Y- BOTTOM LED PART



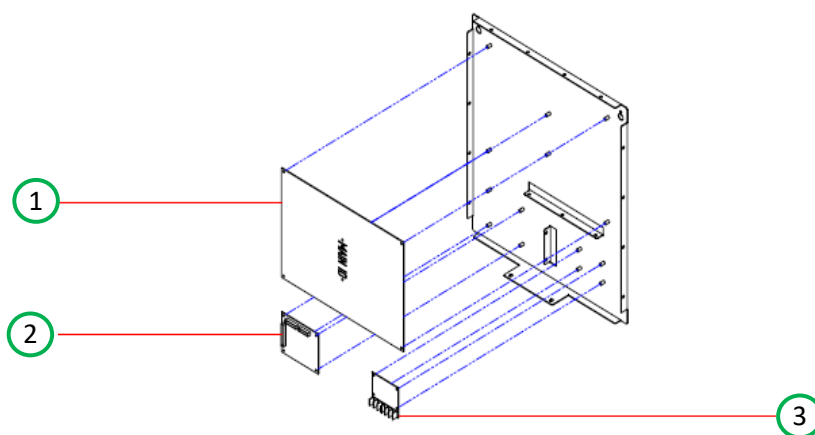
NO	PART NAME	SPEC	Q'TY	CODE NO
1	NOISE FILTER	RNS-2010	1	MELE0NOI009
2	TERMINAL BLOCK	250V 10P	1	MELE0TEB003
3	POWER SMPS	RSP-320-12V	1	MELE0SMP109
4	POWER SMPS	LRS-150F-5V	1	MELE0SMP096
5	ROCKER SWITCH	R595KDF	1	MELE0SWI021
6	FLEX_LED	LR_69	1	MELE0LED102

21) ASS'Y- CONTROL PANEL TOTAL PART



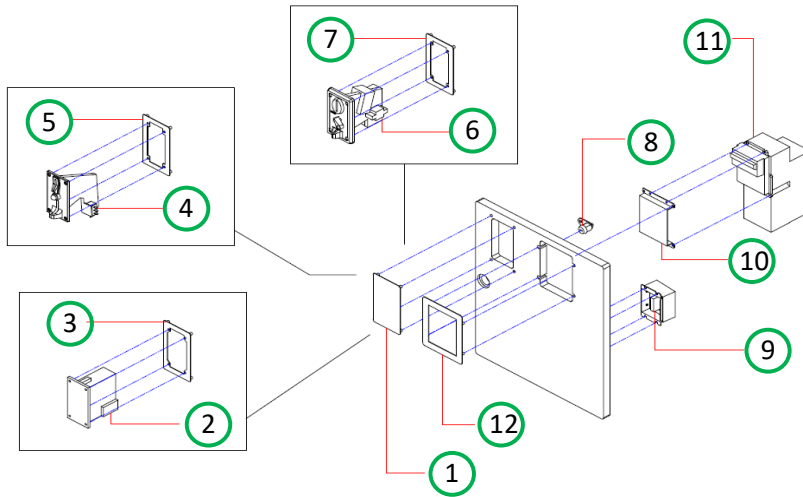
NO	PART NAME	SPEC	Q'TY	CODE NO
1	ROCKER SWITCH	R595KDF	1	MELE0SWI021
2	PUSH BUTTON SWITCH	DS-412R ROHS	2	MELE0PUS006
3	COUNTER	-	4	MZZZ0COU002
4	VOLUME KNOB	CAP BLUE	1	MELE0VOL007
5	VOLUME PCB	-	1	AHM20PCB016
6	COUNTROL PANEL COVER ACRYL	6390-04	1	ASBT0ACP015
7	SETUP LCD	6390-04	1	AZZZ0PCB113

22) ASS'Y- MAIN BOARD PART



NO	PART NAME	SPEC	Q'TY	CODE NO
1	MAIN IO PCB	-	1	ASBT0PCB001
2	WS2812B IO PCB	-	1	ASBT0PCB004
3	RGB PWM PCB	RGB_CTRL-G2GSTC0131	1	MZZZ0000629

23) ASS'Y- CABINET COIN DOOR PART

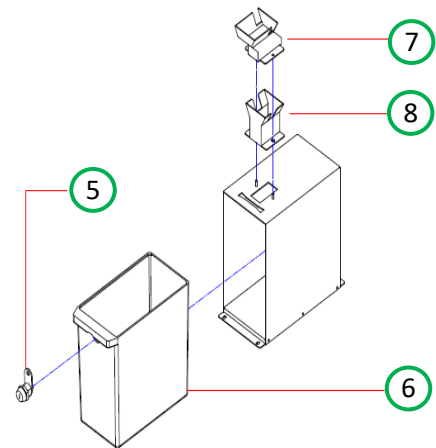
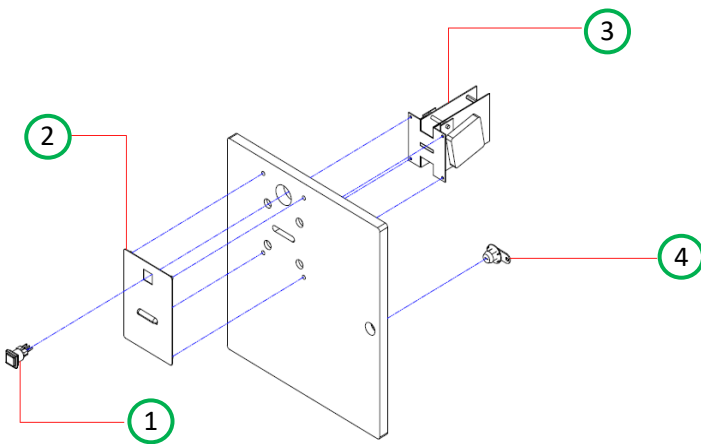


* OPTION

NO	PART NAME	Q'TY	CODE NO	NO	PART NAME	Q'TY	CODE NO
1	COIN FIX COVER BKT	1	MSBT0MEP159	7	COIN FIX BKT-TW389	1	MSBT0MEP223
2	COIN SELECTOR	1	-	8	ASS'Y KEY	1	MZZZ0KEY092
3	COIN FIX BKT-NAMCO	1	MSBT0MEP235	9	MEI ACCEPTOR RELAY BKT	1	ASBP0ASS051
4	COIN SELECTOR	1	MZZZ0COS028	10	BILL ACCEPTOR COVER BK	1	MSBT0MEP069
5	COIN FIX BKT-CEC	1	MSBT0MEP234	11	MEI BILL ASS'Y	1	ASBP0ASS051
6	CONI SELECTOR	1	MZZZ0COS052	12	BILL ACCEPTOR FIX BKT	1	MSBT0MEP070

24) ASS'Y- CABINET TICKET DOOR PART

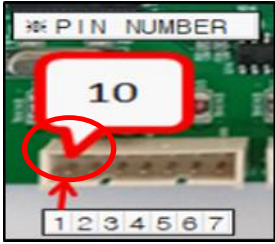
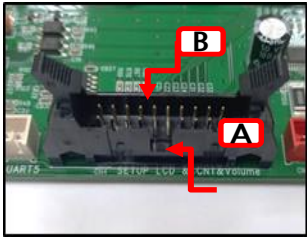
25) ASS'Y- COIN BOX PART



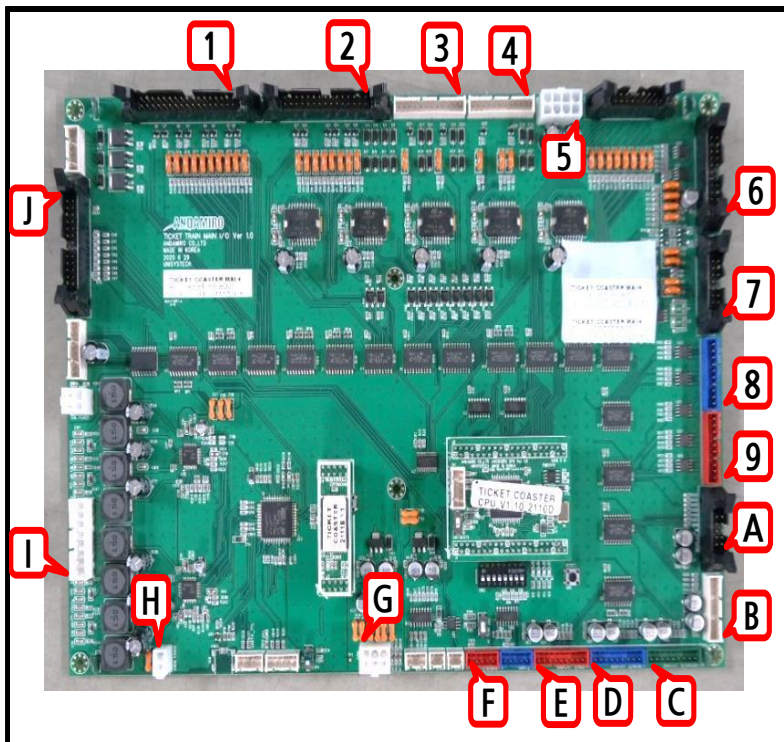
NO	PART NAME	SPEC	Q'TY	CODE NO
1	TICKET BUTTON SWITCH	-	1	MMUM0BUT002
2	TICKET DOOR BKT	SPCC-1.2t	1	MSBT0MEP186
3	TICKET DISPENSER	CLE	1	MZZZ0TID010
4	KEY ASS'Y	-	1	MZZZ0KEY092
5	KEY ASS'Y	-	1	MZZZ0KEY076
6	COIN BOX	-	1	MDRE0PLA007
7	COIN CUHUTE BKT(NAMCO)	GI-1.2t	1	MSBT0MEP233
8	COIN CUHUTE BKT	GI-1.2t	1	MSBT0MEP158

9 PCB CONNETCOR LOCATION

► pin information

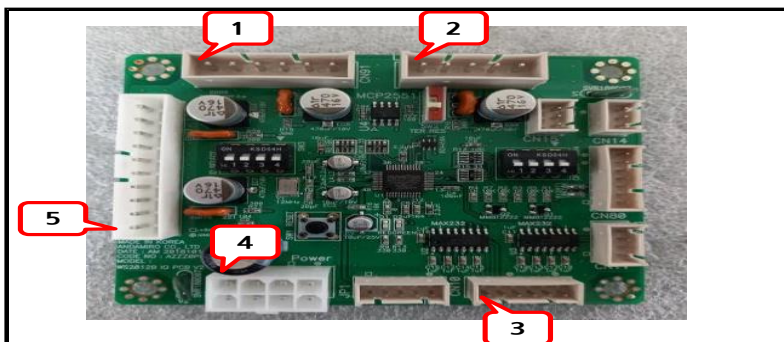
1	2	pin description
		1.The arrow point means the contact pin number 1 2.direction of hirose connector

1) MAIN I/O PCB ASS'Y



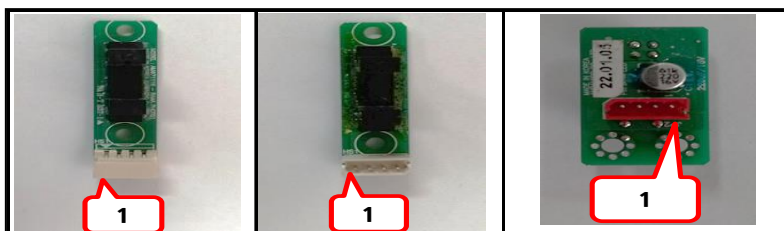
n o	FUNCTION	LOCATI ON	PIN
1	TRAIN & BALL POSITION SENSOR(SUCCESS, COLLECT)	CN5	34
2	SHOOT MOTOR & SENSOR BALL IN/OUT, RAIL SEN	CN8	30
3	BALL ELV MOT & SENSOR	CN15	12
4	TRAIN MOTOR & SENSOR	CN2	4
5	MOTOR POWER 12V	RCA1	2
6	TICKET	CN14	20
7	COIN & BILL	CN6	14
8	2P WHITE LED(MAIN CONT)	CN4	10
9	1P WHITE LED(MAIN CONT)	CN5	10
A	CREDIT FND & SUCCES LED	CN13	10
B	2P BIGWIN FND	CN12	9
C	1P BIGWIN FND	CN11	9
D	2P SCORE FND & LED	CN10	8
E	1P SCORE FND & LED	CN9	8
F	UART(2813B IO PCB)	CN1	5
G	MAIN POWER 5V, 12V	CN28	6
H	AUDIO POWER 12V	CN27	2
I	SPEAKER	CN26	8
J	SETUP & COUNTER & VOL	CN4	26

2) WS2813B IO PCB ASS'Y

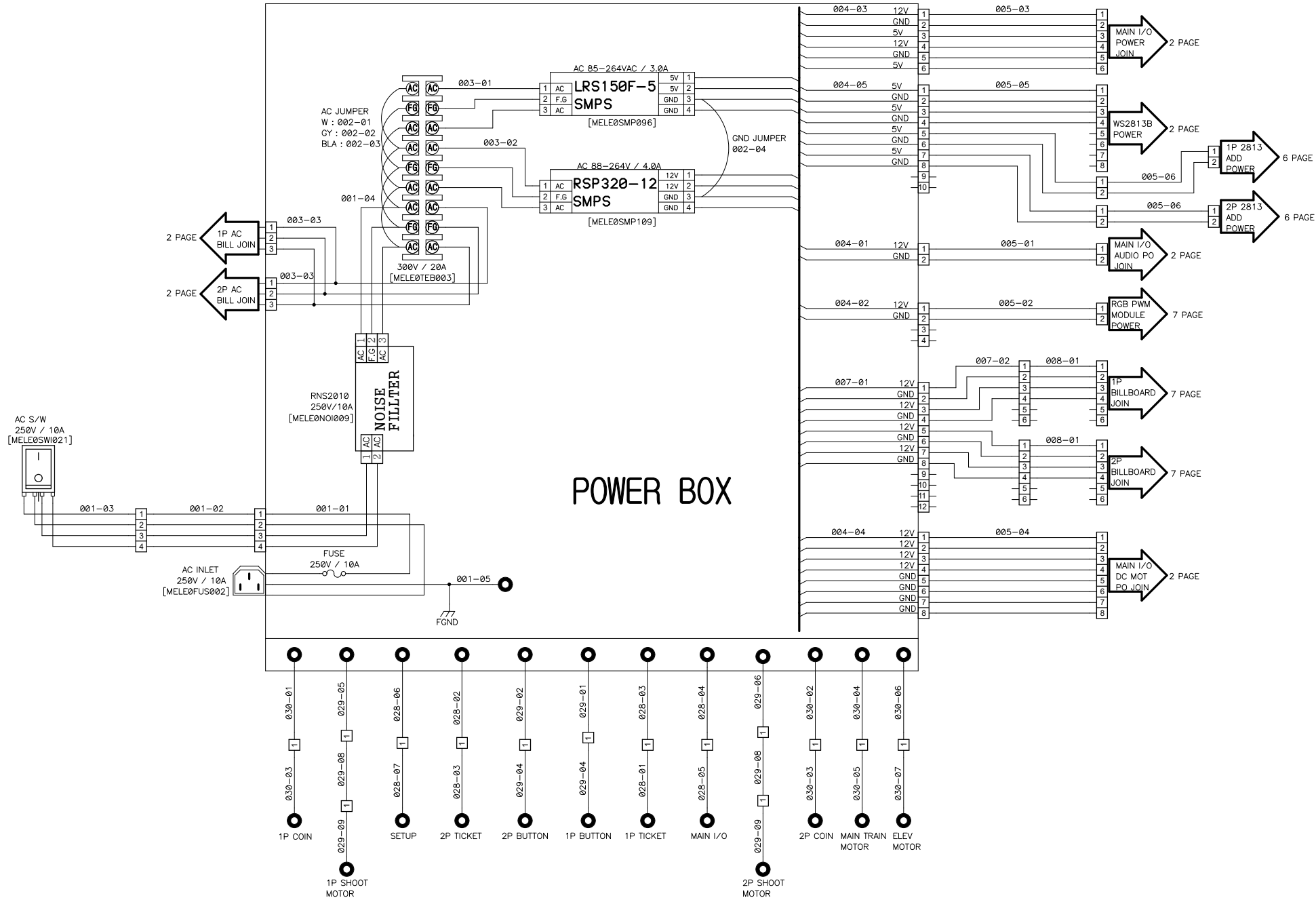


n o	FUNCTION	LOCATI ON	PIN
1	1P BOTTOM RAIL & ELV LED	LED2	6
2	1P SCORE CAP LED & UPPER RAIL LED	LED1	5
3	UART(MAIN PCB)	JP10	6
4	POWER 5V	POWER	8
5	2P BOTTOM RAIL & ELV LED 2P SCORE CAP LED & UPPER RAIL LED	LED3	10

3) SENSOR PCB ASS'Y



n o	FUNCTION	PIN No	PIN
1	POWER 5V	1	4
2	ENABLE VOLTAGE	2	4
3	SENSOR OUT VOLTAGE	3	4
4	GND	4	4



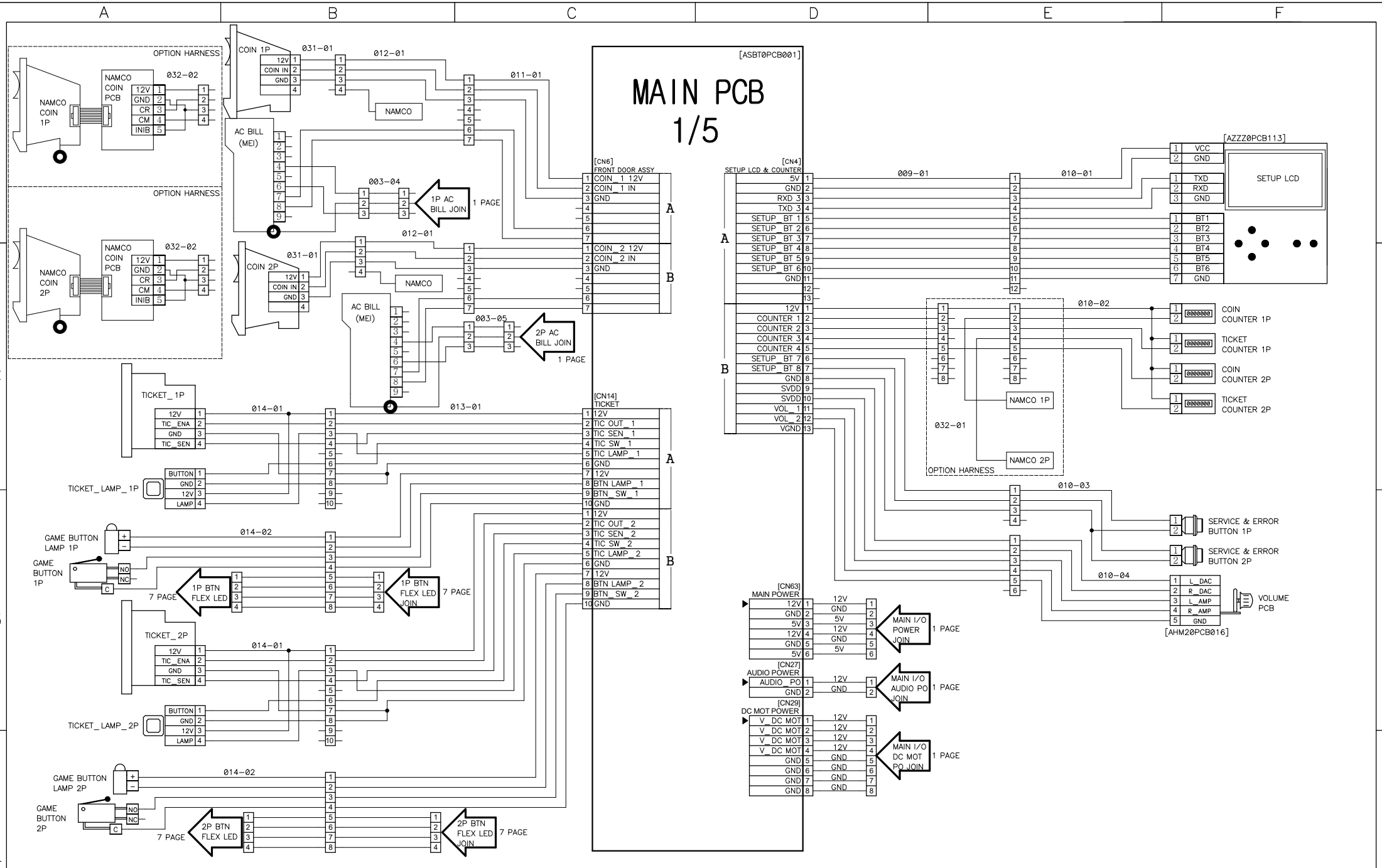
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MAIN PCB 1/5



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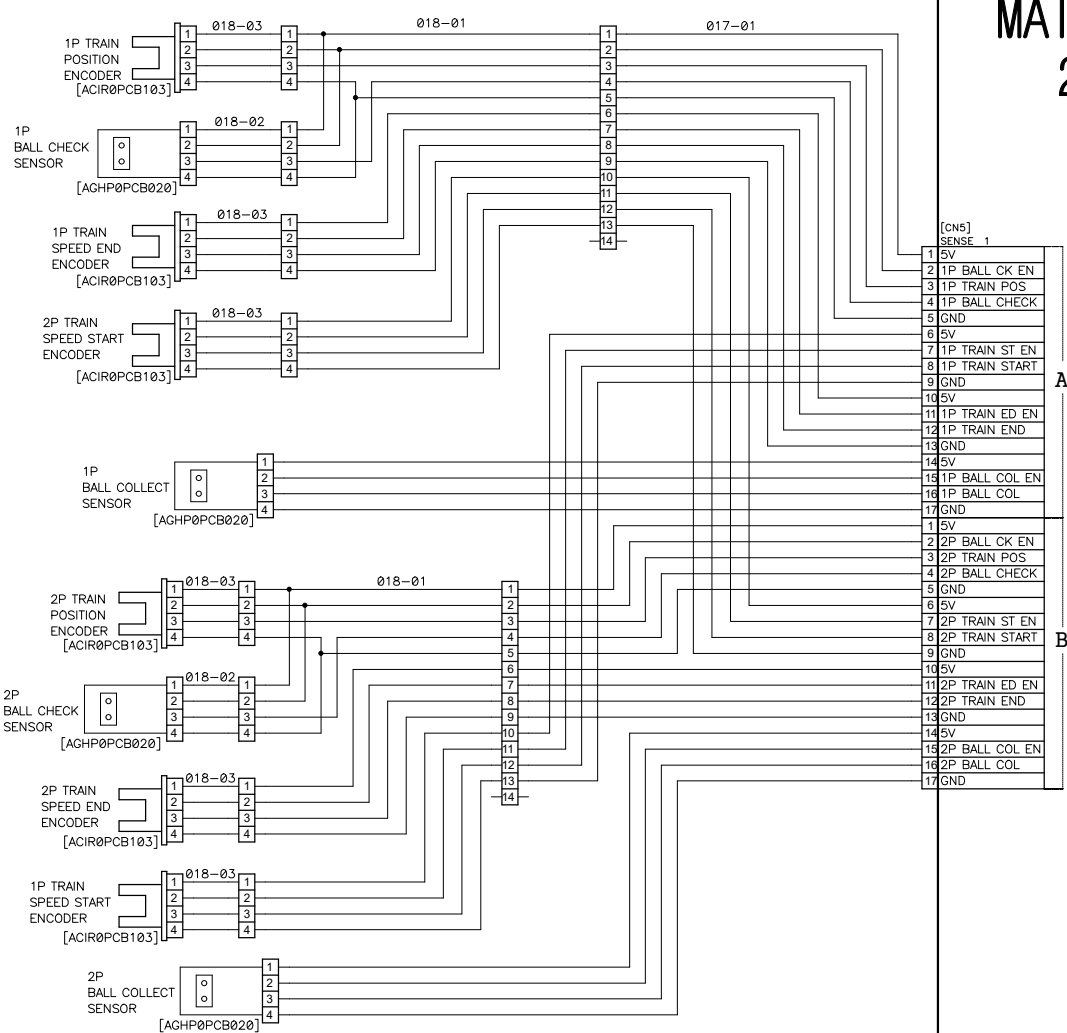
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				DATE	2022.03.17



MAIN PCB 2/5

[ASBT0PCB001]

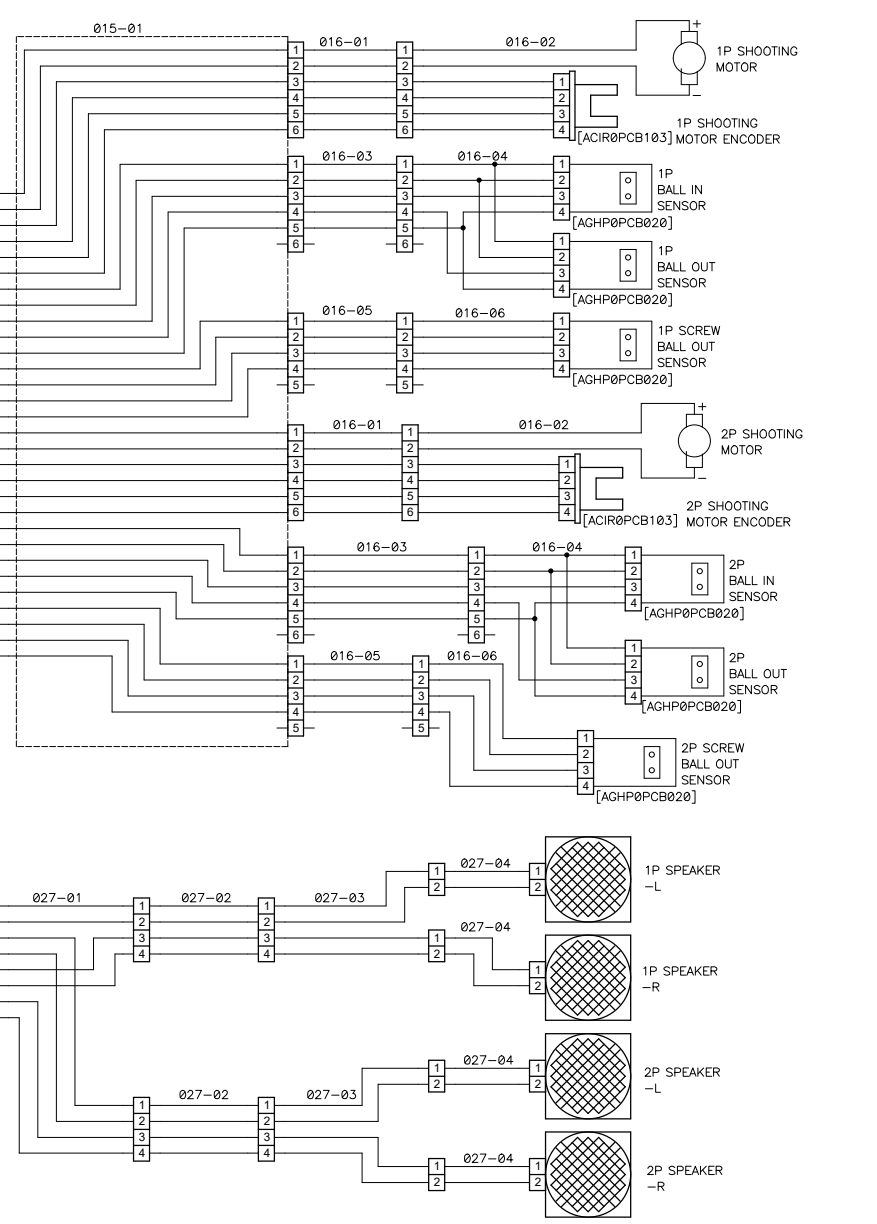


[CN5] SENSE 1

1	5V
2	1P BALL CK EN
3	1P TRAIN POS
4	1P BALL CHECK
5	GND
6	5V
7	1P TRAIN ST EN
8	1P TRAIN START
9	GND
10	5V
11	1P TRAIN ED EN
12	1P TRAIN END
13	GND
14	5V
15	1P BALL COL EN
16	1P BALL COL
17	GND
18	5V
19	2P BALL CK EN
20	2P TRAIN POS
21	2P BALL CHECK
22	GND
23	5V
24	2P TRAIN ST EN
25	2P TRAIN START
26	GND
27	5V
28	2P TRAIN ED EN
29	2P TRAIN END
30	GND
31	5V
32	2P BALL COL EN
33	2P BALL COL
34	GND

[CN8] SHOOTING MOTOR

1	1P ST MOTOR+
2	1P ST MOTOR-
3	VCC 3
4	1P MOT INT IN
5	1P MOT INT IN
6	GND 6
7	VCC 7
8	1P BALL EN
9	1P BALL IN
10	1P BALL OUT
11	GND 11
12	VCC 12
13	1P RAILOUT EN
14	1P RAILOUT IN
15	GND 15
16	2P ST MOTOR+
17	2P ST MOTOR-
18	VCC 3
19	2P MOT INT EN
20	2P MOT INT IN
21	GND 6
22	VCC 7
23	2P BALL EN
24	2P BALL IN
25	2P BALL OUT
26	GND 11
27	VCC 12
28	2P RAILOUT EN
29	2P RAILOUT IN
30	GND 15



[CN26] SPEAKER

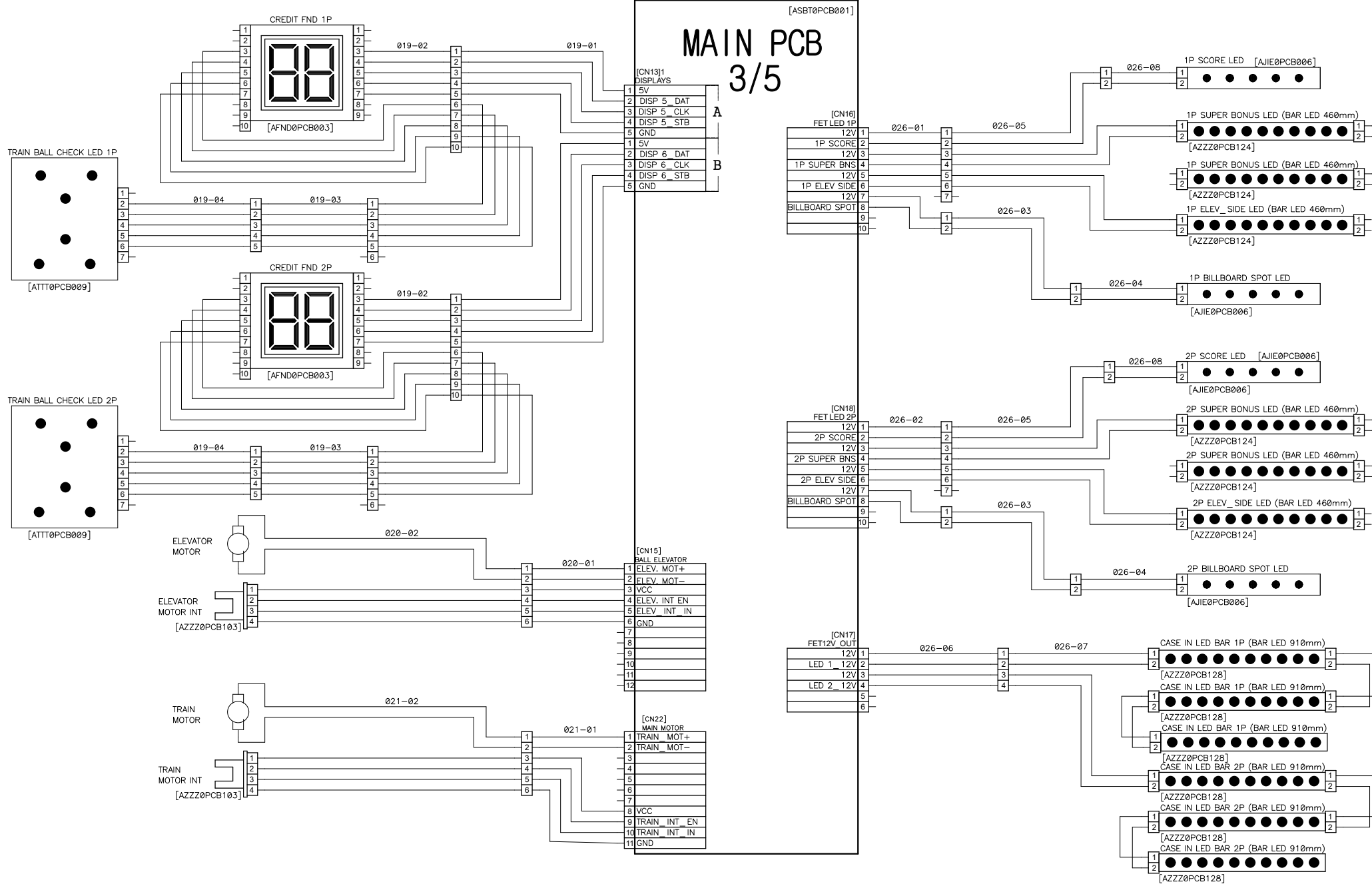
1	OUT A 1
2	OUT A 2
3	OUT B 1
4	OUT B 2
5	OUT C 1
6	OUT C 2
7	OUT D 1
8	OUT D 2

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MAIN PCB 4/5

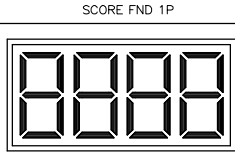
[ASBT0PCB001]

[CN9]
DISPLAY 1

12V	1
12V	2
5V	3
5V	4
DISP 1 DAT	5
DISP 1 CLK	6
DISP 1 STB	7
GND	8
GND	9

022-01	1
023-01	2
023-02	3
	4
	5
	6
	7
	8
	9
	10

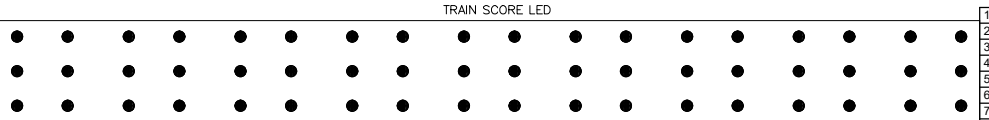
023-01	1
023-02	2
	3
	4
	5
	6
	7
	8
	9
	10



[AFND0PCB007]

023-03	1
023-04	2
023-05	3
	4
	5
	6
	7
	8
	9
	10

TRAIN SCORE LED



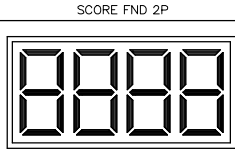
[ASBT0PCB002]

[CN10]
DISPLAY 2

1	1
2	2
5V	3
5V	4
DISP 2 DAT	5
DISP 2 CLK	6
DISP 2 STB	7
GND	8
GND	9

022-02	1
023-01	2
023-02	3
	4
	5
	6
	7
	8
	9
	10

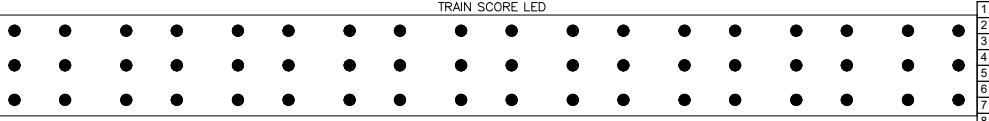
023-01	1
023-02	2
	3
	4
	5
	6
	7
	8
	9
	10



[AFND0PCB007]

023-03	1
023-04	2
023-05	3
	4
	5
	6
	7
	8
	9
	10

TRAIN SCORE LED



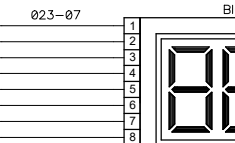
[ASBT0PCB002]

[CN11]
DISPLAY 3

12V	1
12V	2
5V	3
5V	4
DISP 3 DAT	5
DISP 3 CLK	6
DISP 3 STB	7
GND	8
GND	9

022-03	1
023-06	2
023-07	3
	4
	5
	6
	7
	8
	9
	10

023-06	1
023-07	2
	3
	4
	5
	6
	7
	8
	9
	10



[AFND0PCB011]

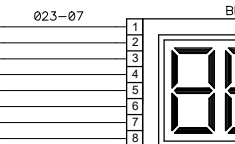
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

[CN12]
DISPLAY 4

12V	1
12V	2
5V	3
5V	4
DISP 4 DAT	5
DISP 4 CLK	6
DISP 4 STB	7
GND	8
GND	9

022-04	1
023-06	2
023-07	3
	4
	5
	6
	7
	8
	9
	10

023-06	1
023-07	2
	3
	4
	5
	6
	7
	8
	9
	10



[AFND0PCB011]

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

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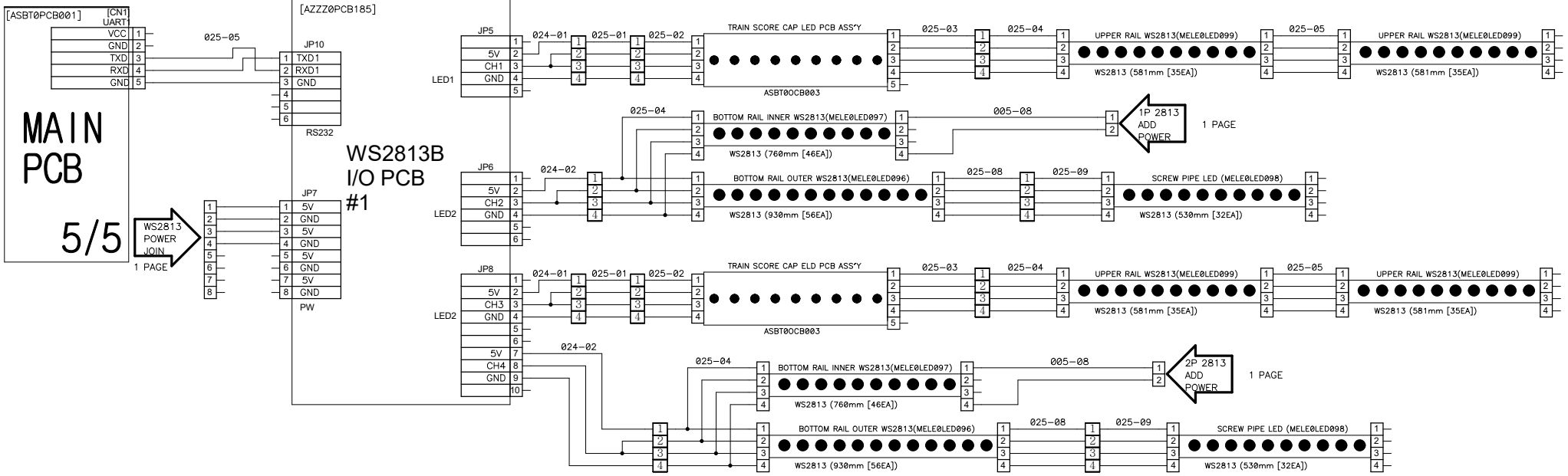
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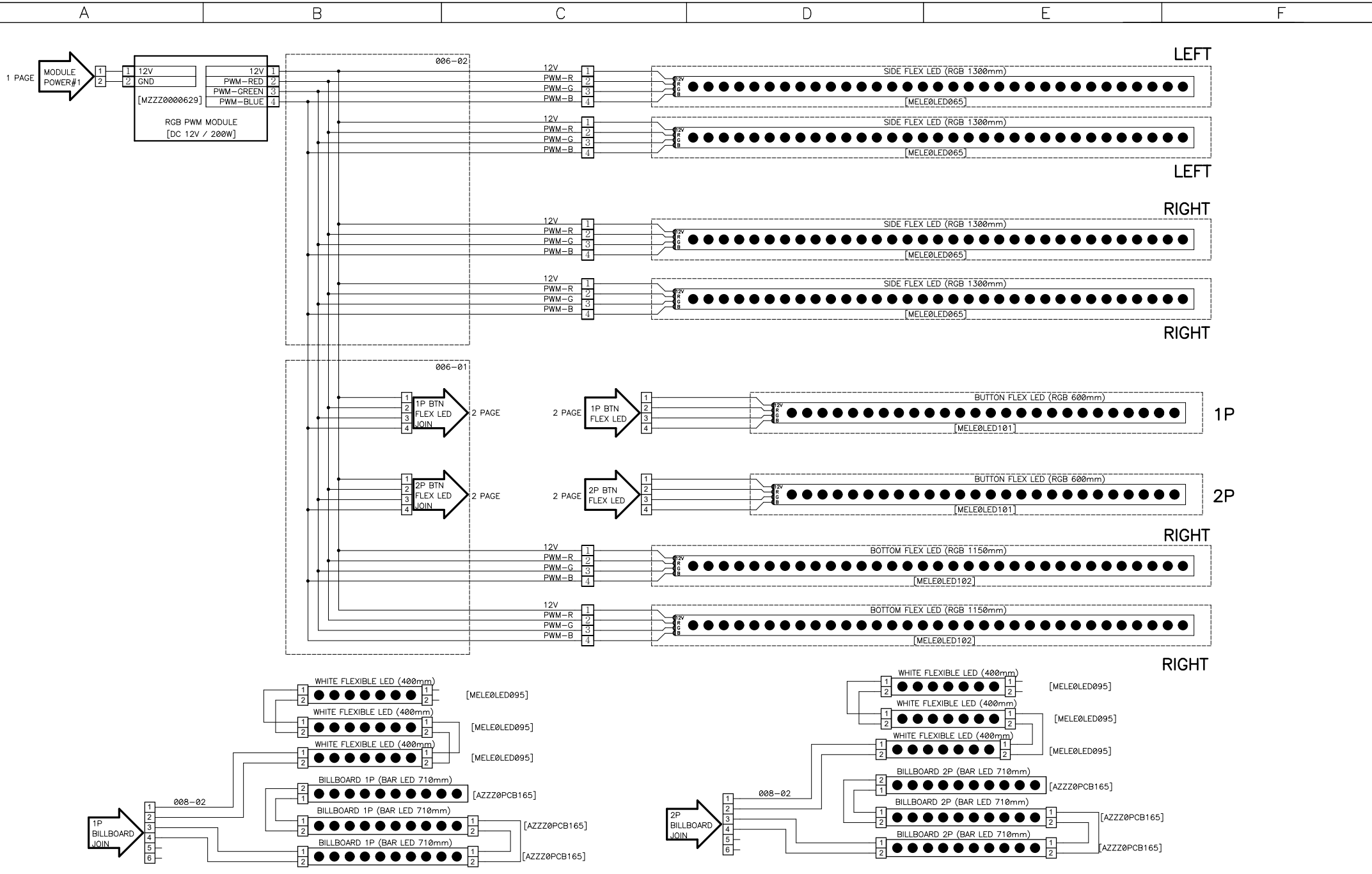
DATE 2022.03.17



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

Andamiro warrants the parts from date of shipment as follows.

- **One Year Limited Warranty : Electronic Boards**
- **6 Months Limited Warranty : Moving Parts**

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.

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