

SERVICE MANUAL



Ver 1.0



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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

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.

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 conseiller 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.

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.

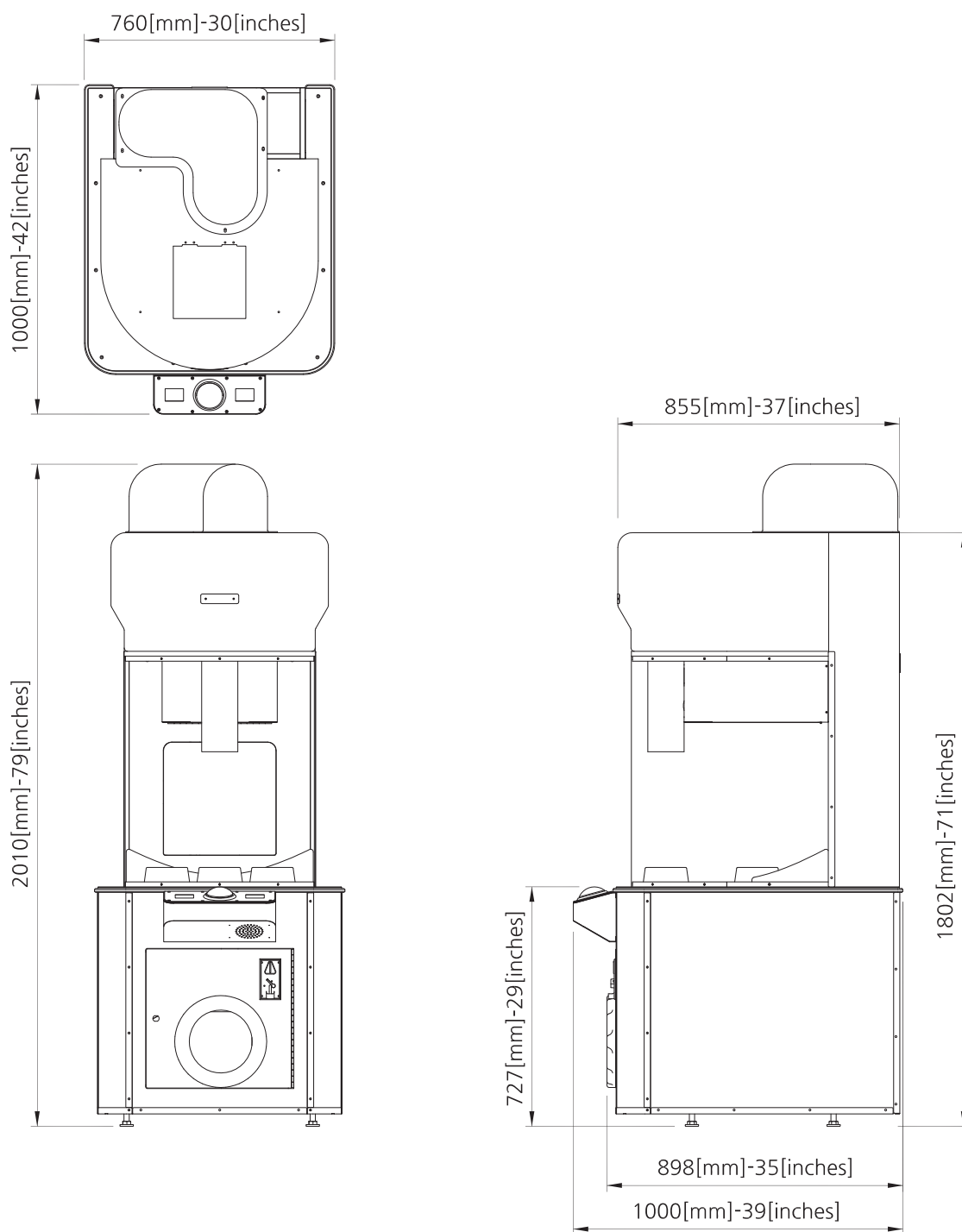
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1. SPECIFICATION AND DIMENSION

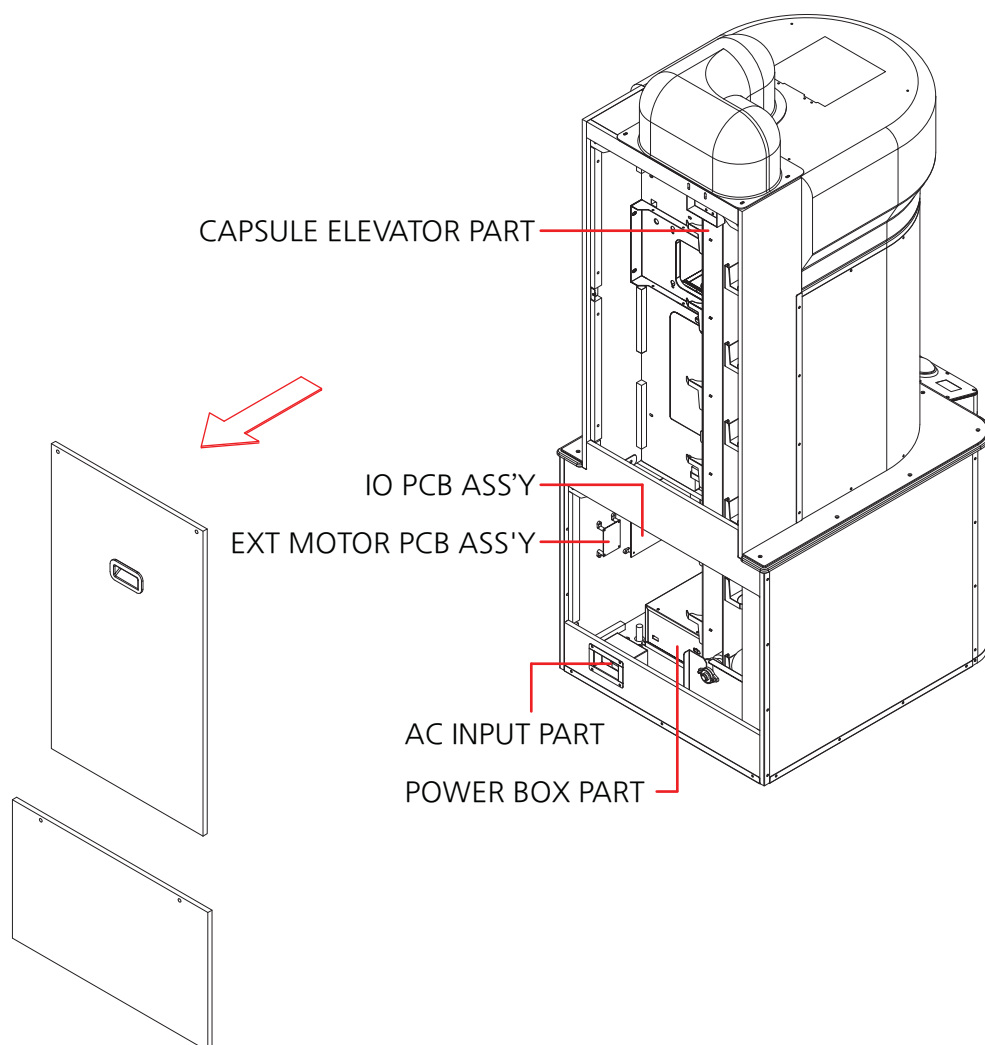
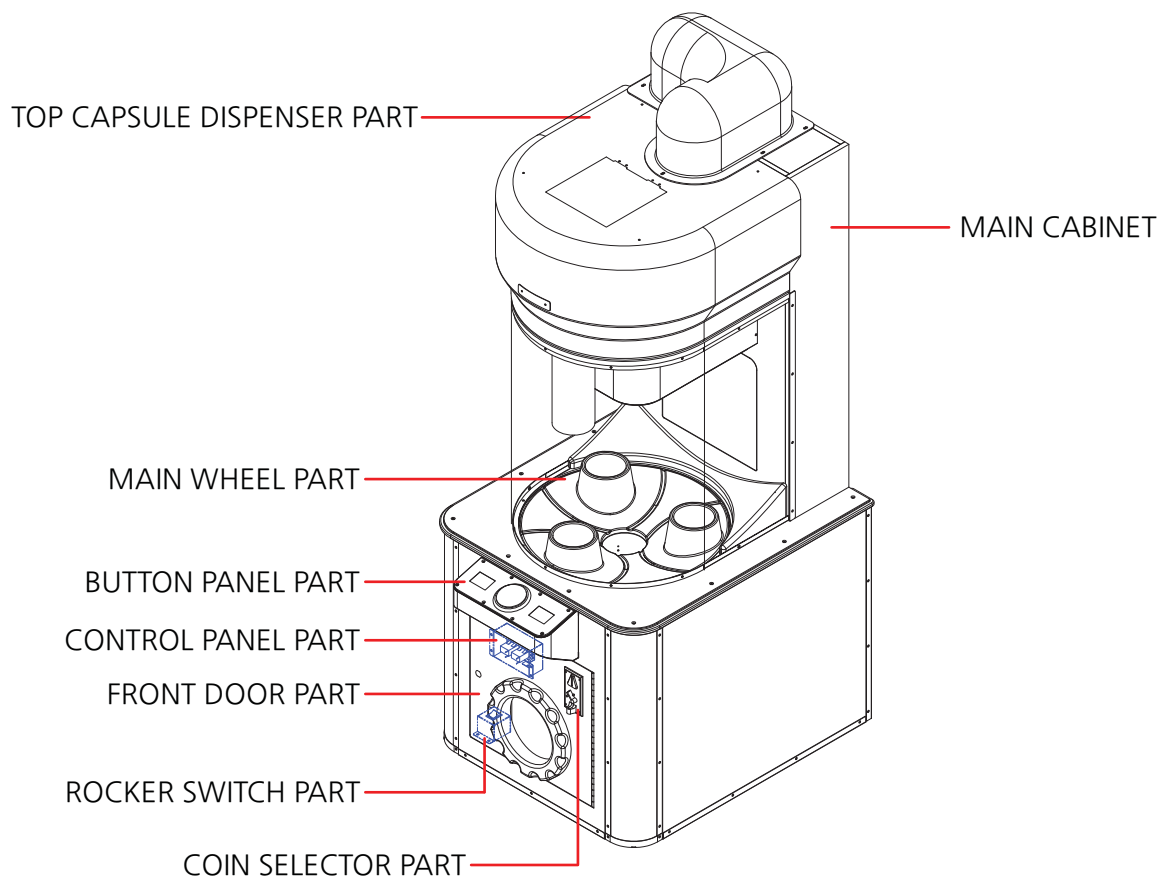
1-1. DIMENSION



1-2. SPECIFICATION

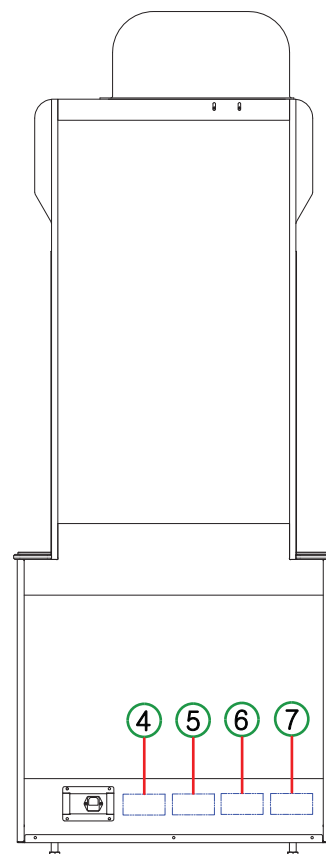
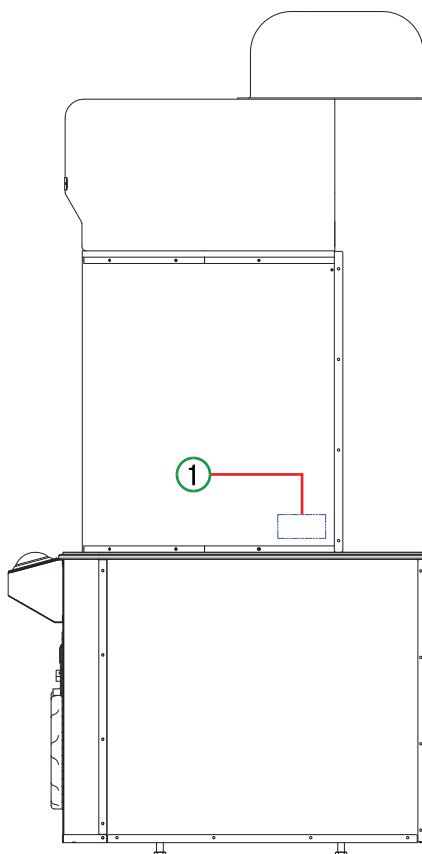
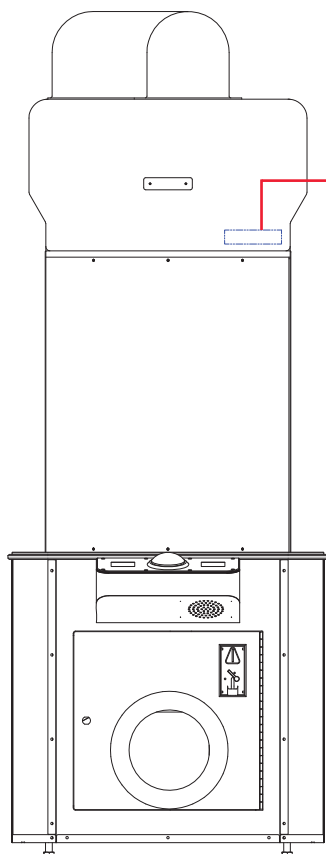
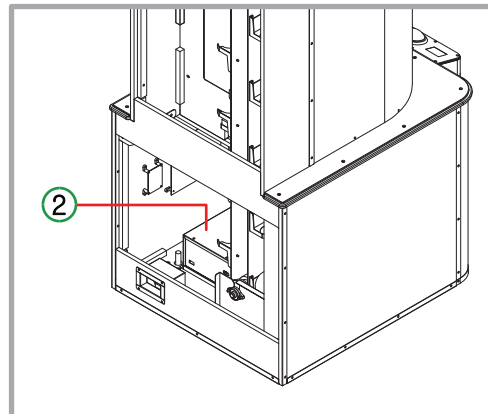
DIMENSION (W x D x H)	760 x 1000 x 1802 (mm)
PACKING DIMENSION (W x D x H)	860 x 1100 x 2200 (mm)
WEIGHT (kg)	145 kg [WEIGHT INCLUDING : 170 kg] PACKAGING
VOLTAGE	AC 120V
FREQUENCY RANGE	60Hz
CONSUMPTION	120 W
CERTIFICATION	-

1-3. NAME OF PARTS



1-4. STICKER LOCATION

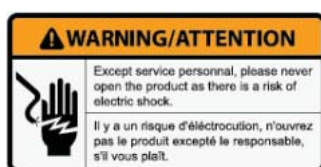
* SMPS PANEL



1



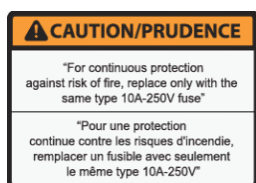
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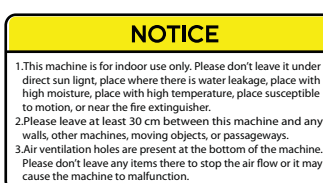
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4



5



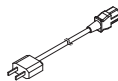
6



7

MODEL NAME	-
PRODUCT S/N	-
MAIN BOX S/N	-
LOD S/N	-
CERTIFICATE	-
MADE IN KOREA	
Koyang-st, Kyunggi-do, Korea Phone: 82-81-909-2100	

1-5. COMPONENTS

NO.	PART NAME	SPEC.	QTY
1	AC POWER CORD	- 	1
2	KEY	- 	2 EACH
3	MAIN WHEEL SENSOR	- 	1
4	MICRO SWITCH	- 	1
5	PRIZE OUT SENSOR	- 	1 SET
6	MANUAL	- 	1

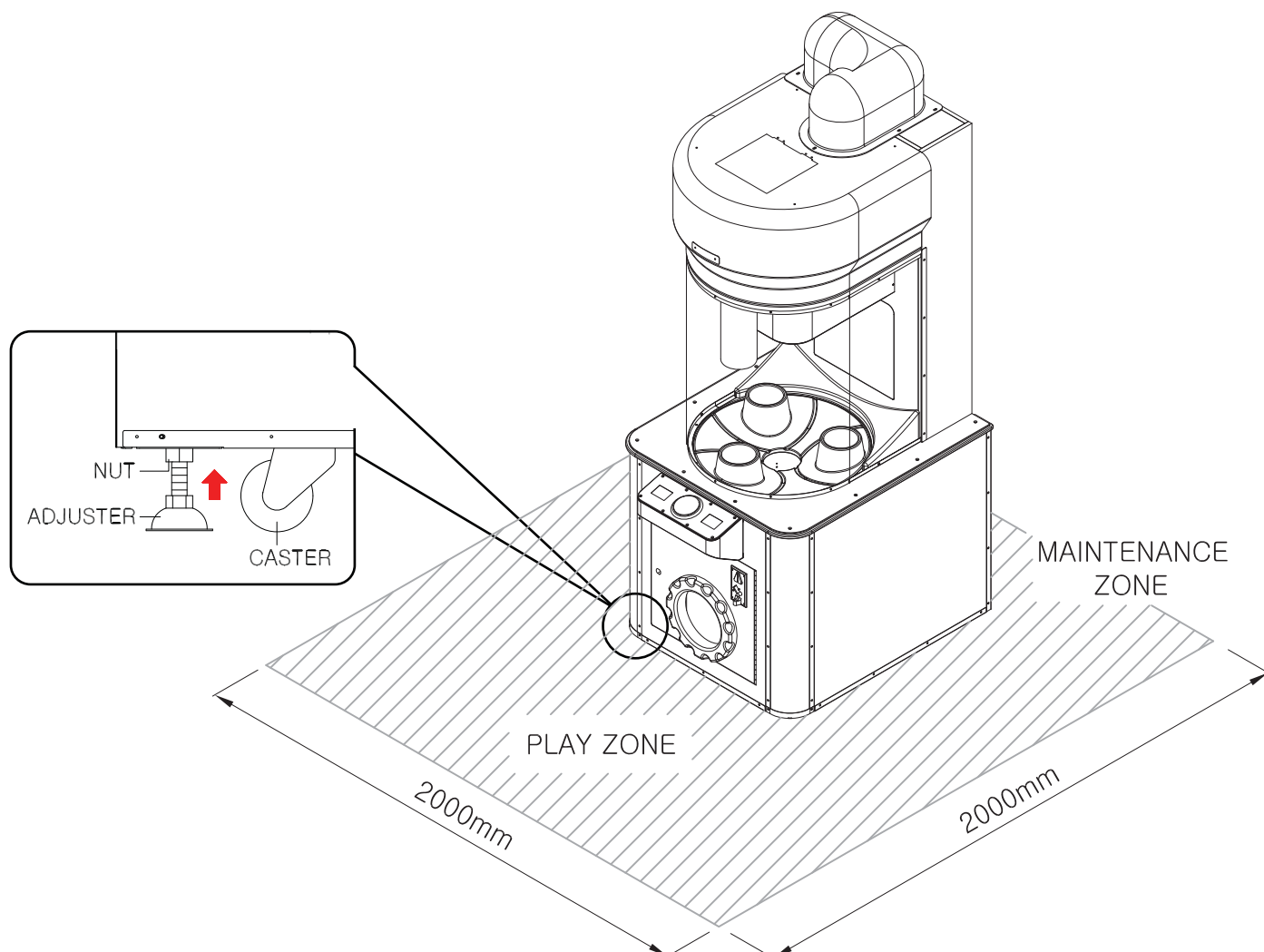
2. INSTALLATION

2-1. INSTALLATION SPACE

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

***IMPORTANT**

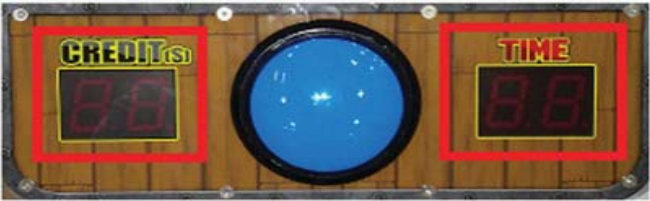
- Once you set up the machine with required game-play area, when installing this product, set the 4 leg levelers evenly on the floor and make sure that the product is installed stably in a horizontal position.



3. SETUP SETTINGS

3-1. MACHINE SETUP

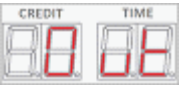
1. SETUP BUTTON LAYOUT

   MENU/SELECT MOVE/CHANGE CANCEL/SERVICE	1) MENU/SELECT : Set Up MENU/SELECT 2) MOVE/CHANGE : Move into MENU/Setting Value Change 3) CANCEL/SERVICE : Select CANCEL/SERVICE In case Error occurs, use this button to terminate Error
※ Display Setting Menu of FND on the CREDIT(S) and TIME FND	
	

[OPERATINGOPTIONS]

※HOW TO OPERATE BUTTONS

1	2	3
		
MOVE/CHANGE	MENU/SELECT	CANCEL/EXIT

ITEMS	FND DISPLAY	DESCRIPTIONS
1. PROGRAM SETTINGS		Set Up Mode(Set Up for CREDIT, COIN, GAME TIME)
2. CLEAR MODE		Delete Mode>Delete CREDIT, GAME DATA)
3. BOOKKEEPING		Check Game Data(Check PAY IN, PAY OUT)
4. FACTORY SETTING		Initializing to Factory Setting
5. TEST MODE		Test Mode
6. EXIT		Exit from Operation Options

3-2. SETUP MODE

PROGRAM SETTINGS

※How to operate buttons					
1	2	3	4	5	6
					
MOVE/CHANGE	MENU/SELECT	MOVE/CHANGE	MENU/SELECT	MOVE/CHANGE	MENU/SELECT
MOVE/CHANGE	MENU/SELECT (Flicker)	MOVE/CHANGE Setting Value Change	MENU/SELECT Confirmation (Stop Flicker)	SAVE and EXIT	Execution
7	8	CANCEL / SERVICE Button			
					
MOVE/CHANGE	MENU/SELECT	MENU/SELECT			
Select [Yes] on the [Yes] or [No]	Check Selection	Cancel or Exit			

ITEMS(CREDIT FND)	FND DISPLAY	DESCRIPTIONS	RANGE(TIME FND)	DEFAULT
11. CREDIT / COIN		Set Up CREDIT/COIN Set Up COIN(S) for CREDIT(S) "Fr" : Free Game "11" : 1 Coin Input/1 Credit Increase "12" : 2 Coins Input/1 Credit Increase ~ "15" : 5 Coins Input/1 Credit Increase "21" : 1 Coin Input/2 CreditsIncrease ~ "51" : 1 Coin Input/5 Credits Increase	"Fr", 11, 12, 13, 14, 15, 21, 31, 41, 51	11
12. PLAY TIME		Limit Play Time "--" : No Time Limit (Wait until press the button) 10 ~ 90 : When start the game, it will decrease from the set time(second) and drop the capsule automatically when it reaches 0 second.	"--" 10, 20, 25, 30, 40, 50, 60, 70, 80, 90	30

13. WIN RATE		Set Up for Capsule Out Ratio "--" No success control 1 ~ 99 :Successful processing of set number of times.. Criterion 100 Ex) Set Value1: 1 Success, 99 Fail Set Value10: 10 Success, 90 Fail Set Value 50: 50 Success, 50 Fail Set Value 99: 99 Success, 1 Fail	"--" 1 ~ 99 (By 1 unit increase)	10
14. WHEEL SPEED		Set Up for Main Wheel Speed "00" -Speed Randomly "01" -Fixed Speed	"00", "01"	"01"
15. ATTRACT VOLUME		Set Up for DEMO Sound Volume "00" : No DEMO Sound Volume 10 ~ 99 : Sound Volume Ratio (99 means 100% Volume)	"00", 10 ~ 99 (By 10 units increase)	60
SAVE EXIT		Save and Exit	Press SELECT button, follow cursor to [Yes]or [No]	
EXIT (Out)		Exit from Operation Options		

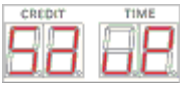
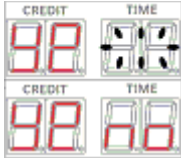
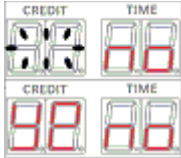
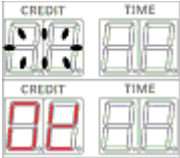
※SAVE EXIT: How to operate [yes] or [no] button

1	2	3	4
			
MENU/SELECT	MOVE/CHANGE		MENU/SELECT
Select Item	Select [yes] and CheckFlicker		Select YES
			

3-3. CLEAR MODE

CLEAR MODE			
Delete CREDIT DATA, GAME DATA and BOOKKEEPING			
ITEMS(CREDIT FND)	FND DISPLAY	DESCRIPTIONS	IMPLEMENT
21. CLEAR CREDIT		Delete CREDIT(S)	Press SELECT button, follow cursor to [Yes] or [No]
22. CLEAR DATA		GAME DATA and BOOKKEEPING	
EXIT (Out)		Exit from Operation Options	

※ CLEAR MODE: How to operate [yes] or [no] button

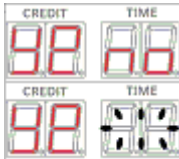
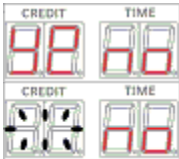
1	2	3	4
			
MENU/SELECT	MOVE/CHANGE	MENU/SELECT	MENU/SELECT
Select Item	Select [yes] and Check Flicker	Select YES/[OK] Flicker	Select YES/[OK] Flicker
			

3-4. BOOKKEEPING

Check GAME PLAY COUNT, COIN IN, PRIZE OUT COUNT			
ITEM	FND DISPLAY	DESCRIPTIONS	IMPLEMENT
31. GAME PLAY		Number of GAME PLAY	Press SELECT button, move into previous menu
32. PAYIN		Number of COIN IN (Not include Free Game, Service)	
33. PAYOUT		Number of PRIZE OUT	
EXIT (Out)		Exit from Operation Options	
Display total 4 digits of CREDIT FND, TIME FND, if over the 4 digits, there will display over digits			

3-5. FACTORY SET

FACTORY SET Initializing to Factory Setting		
ITEMS(CREDIT FND)	FND DISPLAY	DESCRIPTIONS
FACTORY SET		Press SELECT button, select [Yes] or [No], follow cursor to [Yes] and Implement

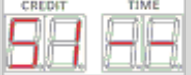
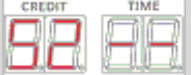
1	2	3	4
			
MENU/SELECT	MOVE/CHANGE	MENU/SELECT	
Menu Select	Select [yes] and Check Flicker	Select YES/[OK] Flicker	
			

3-5. TEST MODE

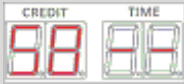
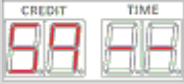
Test for operating machine

※ TEST MODE How to check operate buttons

1	2	3
 MENU/SELECT	 or  MENU/SELECT or START	 CANCEL/SERVICE
Move into Test Menu	Operate test item ON/OFF	Exit and move into previous menu

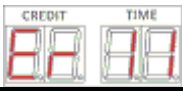
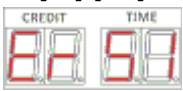
ITEMS(CREDIT FND)	FND DISPLAY	DESCRIPTIONS
51. INPUT TEST		Check BUTTON, SENSOR (When test each button & Sensor, there will play sound)
		Display first digit of TIME FND 1. PRIZE OUT SENSOR [Sound: ONE]
		Display first digit of TIME FND 2. Start Button [Sound: TWO]
		Display first digit of TIME FND 3. Check switch of the top capsule elevator [Sound: THREE]
		Display first digit of TIME FND 4. Coin Sensor [Sound: FOUR]
		Display first digit of TIME 5. Set Up for MENU/SELECT button [Sound: FIVE] (Press MOVE/CHANGE button and CANCEL/SERVICE button, it will operate automatically without any Test Items)
		Display Second digit of TIME FND 6. Solenoid Switch [Sound: SIX]
		Display Second digit of TIME FND 7. Main wheel encoder sensor[Sound: SEVEN]
		There will have signal of Solenoid switch and Main wheel encoder sensor, it will display onSecond digit of TIME FND [Sound: EIGHT]
52. LAMP & FND		LAMP, FND, LED TEST SELECT or START button : press every time [Sequence] ► [ON] ► [ON/OFF] ► [OFF]
		[STEP] : Test as below sequences ► LAMP : PRIZE OUT Door lamp “ON” ► LAMP : Start button lamp “ON” ► LAMP : Inside lamp “ON” of the top main game wheel ► LAMP : Rounded upper lamp “ON” of Solenoid capsule ► FND : ON/OFF Flicker ► FND : Sequence display [12] [34] ► FND : [11] [11] ~ [99] [99], display number count ► LED : Both side of corner “LED ON” on the door [ON] : LAMP, FND, LED ON [ON/OFF] : LAMP, FND, LED turn ON / OFF by 1 second [OFF] : OFF(FND will display like [52] [--])

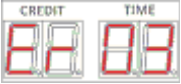
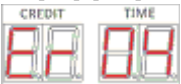
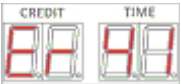
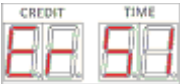
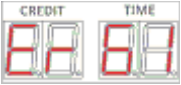
53. MAIN WHEEL MOTOR		MAIN WHEEL MOTOR TEST SELECTor STARTbutton :Operate motor "ON/OFF"
		Display motor operation on first digit of TIME FND [o-] : MOTOR ON, [--] : MOTOR OFF
		Display main wheel encoder sensor counter on second digit of TIME FND
		Display encoder sensor "ON/OFF" on second digit of TIME FND
54. ELEVATOR MOTOR		CAPSULE ELEVATOR MOTOR TEST SELECTor STARTbutton: Motor operate "ON/OFF"
		Display motor operation on first digit of TIME FND [o-] : MOTOR ON, [--] : MOTOR OFF
		Display elevator upper capsule feeder switch on second digit of TIME FND
		Display elevator upper capsule feeder switch "ON/OFF" on second digit of TIME FND
55. TOP CAPSULE MOTOR		UPPER CAPSULE FEEDER WHEEL MOTOR TEST SELECTbutton : Motor operation "ON/OFF" ※ STARTbutton : Solenoid operation "ON" ※ To prevent jammed capsule, if there is capsule at the bottom solenoid and capsule switch signal during a test, the solenoid will operate automatically to drop the capsule.
		Display motor operation on first digit of TIME FND [o-] : MOTOR ON, [--] : MOTOR OFF
		Display the bottom solenoid switch "ON" on second digit of TIME FND ("1" ON, "-" OFF)
56. SOLENOID		SOLENOID TEST SELECTor STARTbutton: Solenoid operation "ON" [o-] : SOLENOID ON, [--] : SOLENOID OFF TO protect solenoid overload, wait 1 seconds after test. (1 second : ON, Test after waiting 1 second)
		Display solenoid operation on first digit of TIME FND
		Display solenoid switch "ON/OFF" on second digit of TIME FND (1" ON, "-" OFF)
57. COIN		COIN TEST SELECTor STARTbutton :Coin operation "ON/OFF"
		Display coin operation "Inhibit" on first digit of TIME FND [o-] : Inhibit ON, [--] : Inhibit OFF
		Display coin sensor count on second digit of TIME FND

58. COUNTER		COUNTER TEST SELECTor STARTbutton: COIN IN, PRIZE OUT counter, operate by 1 second sequence
		Display COIN IN counter on first digit of TIME FND
		Display PRIZE OUT counter operation on second digit of TIME FND
59. SOUND		SOUND TEST SELECT button :Automatically sound ON/OFF test STARTbutton: Play sound 1 time
		Display play sound “ON” on first digit of TIME FND
EXIT		EXIT(move into previous menu)

EXIT EXIT “OPERATION OPTIONS”		
ITEMS(CREDIT FND)	FND DISPLAY	DESCRIPTIONS
5. EXIT		EXIT “OPERATION OPTIONS”

3-6. ERROR CODE

ERROR CODE			
ERROR CODE FND DISPLAY	TYPE OF ERROR	CONTENTS	CHECK LIST
[Er] [03] 	SYSTEM	Set up saving data error	1. Do FACTORY SET 2. Check set up data 3. Replace Main Board, when error occurs continuously.
[Er] [04] 		Game Saving Data Error	1. Turn OFF or reboot system. 2. Replace Main Board, when error occurs continuously.
[Er] [11] 	COIN	Continuous existence of player coin sensor signal	Check input of coin sensor
[Er] [31] 	MAIN WHEEL MOTOR	No encoder signal	1. Check motor operation 2. Check input of encoder sensor
[Er] [41] 	ELEVATOR UPPER CAPSULE FEEDER SWITCH	Elevator Upper Capsule feeder switch continues On	1. Check capsules 2. Check switch
[Er] [51] 	UPPER CAPSUL FEEDER MOTOR	No signal of the bottom solenoid switch during operating capsule feeder motor	1. Check capsules or not 2. Check the upper capsule feeder 3. Check solenoid switch
[Er] [61] 	SOLENOID	Switch signal continually when solenoid already operated	1. Check solenoid operation 2. Check ready switch

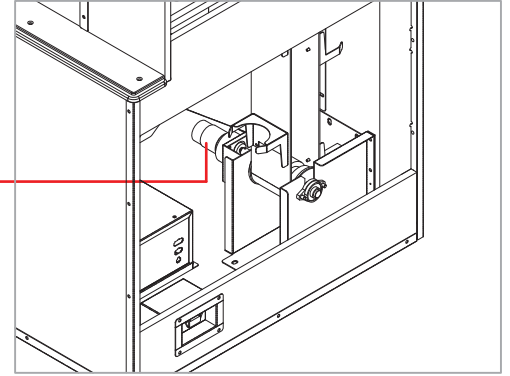
HOW TO DETECT ERROR CODE			
ERROR CODE FND DISPLAY	TYPE OF ERROR	CONTENTS	CHECK LIST
[Er] [03] 	SYSTEM	Set up saving data error	Turn on the machine, load backup memory for inspecting data, if there is a problem, reference [Er] [03]
[Er] [04] 		Game Saving Data Error	Turn on the machine, load backup memory for inspecting data, if there is a problem, reference [Er] [04]
[Er] [11] 	COIN	Continuous existence of player coin sensor signal	When a signal keeps up over 2 seconds at INHIBIT ON, reference [Er] [11]
[Er] [31] 	MAIN WHEEL MOTOR	No encoder signal	There is no changing of encoder signal over 2 seconds during operating main wheel, stop main wheel motor and then reverse it. When a signal keeps up over 2 seconds, reference [Er] [31]
[Er] [41] 	ELEVATOR UPPER CAPSULE FEEDER SWITCH	Elevator Upper Capsule feeder switch continues On	When a signal keeps up over 3 seconds at elevator upper switch, reference [Er] [41]
[Er] [51] 	UPPER CAPSUL FEEDER MOTOR	No signal of the bottom solenoid switch during operating capsule feeder motor	There is no solenoid signal over 4 seconds during operating capsule feed motor, reverse it over 8 seconds and then operates forward direction. Repeat this process over 90 seconds and no signal from solenoid, reference [Er] [51]
[Er] [61] 	SOLENOID	Switch signal continually when solenoid already operated	If switch signal has continued when solenoid already operated, retry solenoid operation then signal continually, reference [Er] [61]

4. TROUBLESHOOTING

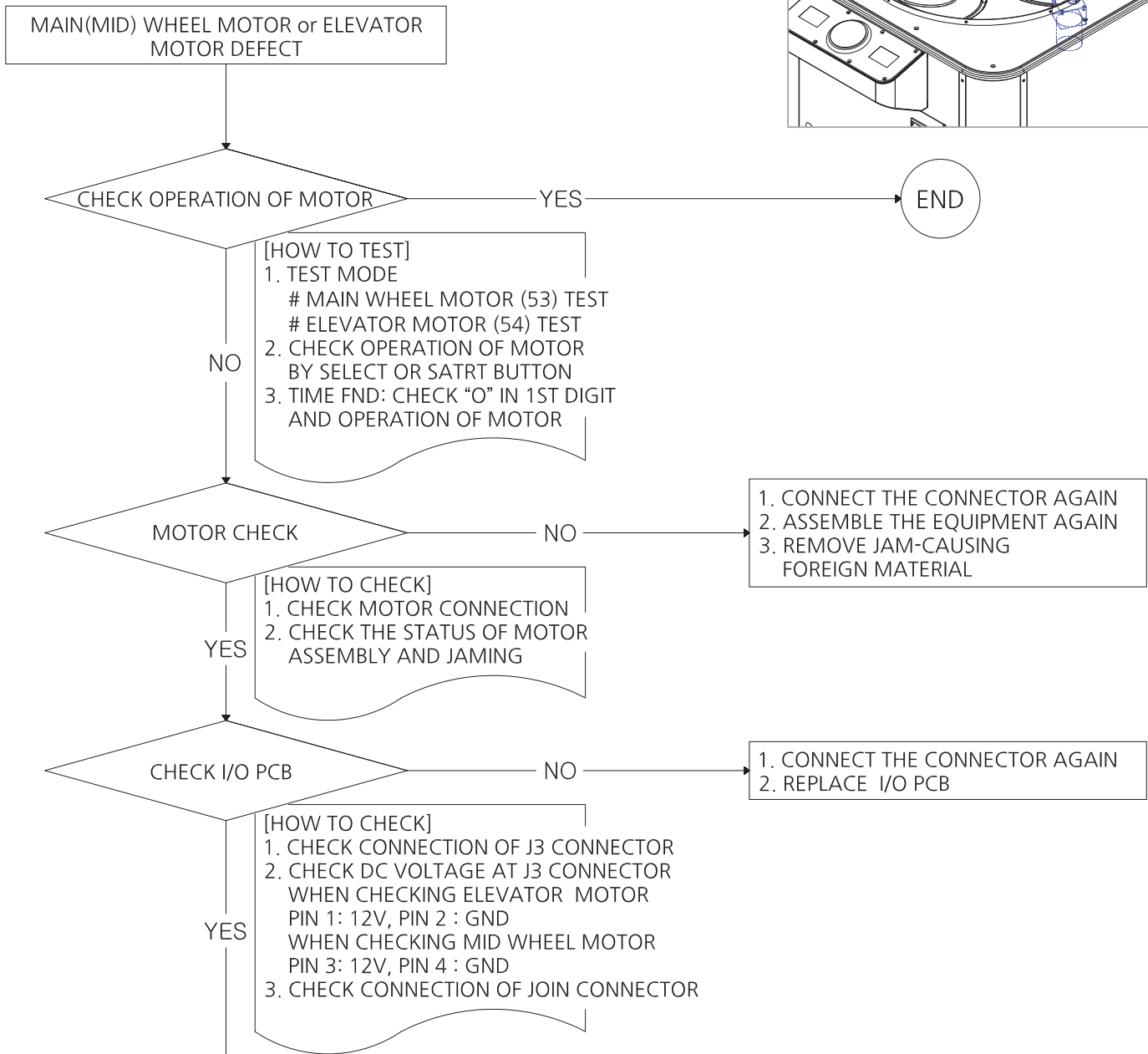
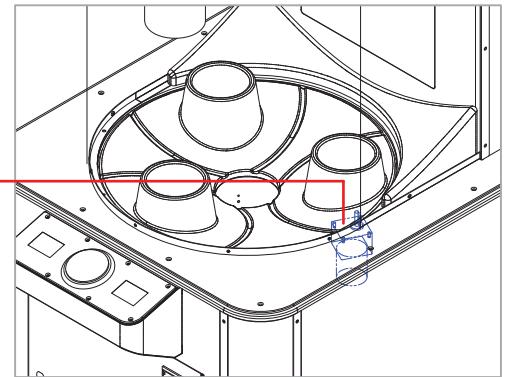
- * General check up : Check the supply voltage and wiring connection properly
- * "NO" : Means faulty of the check up result.

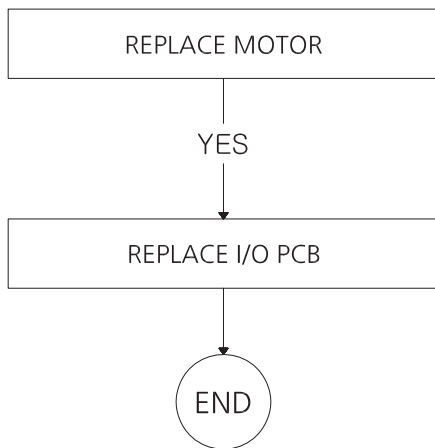
4-1. MAIN WHEEL MOTOR OR ELEVATOR MOTOR DEFECT

MAIN WHEEL MOTOR



ELEVATOR MOTOR



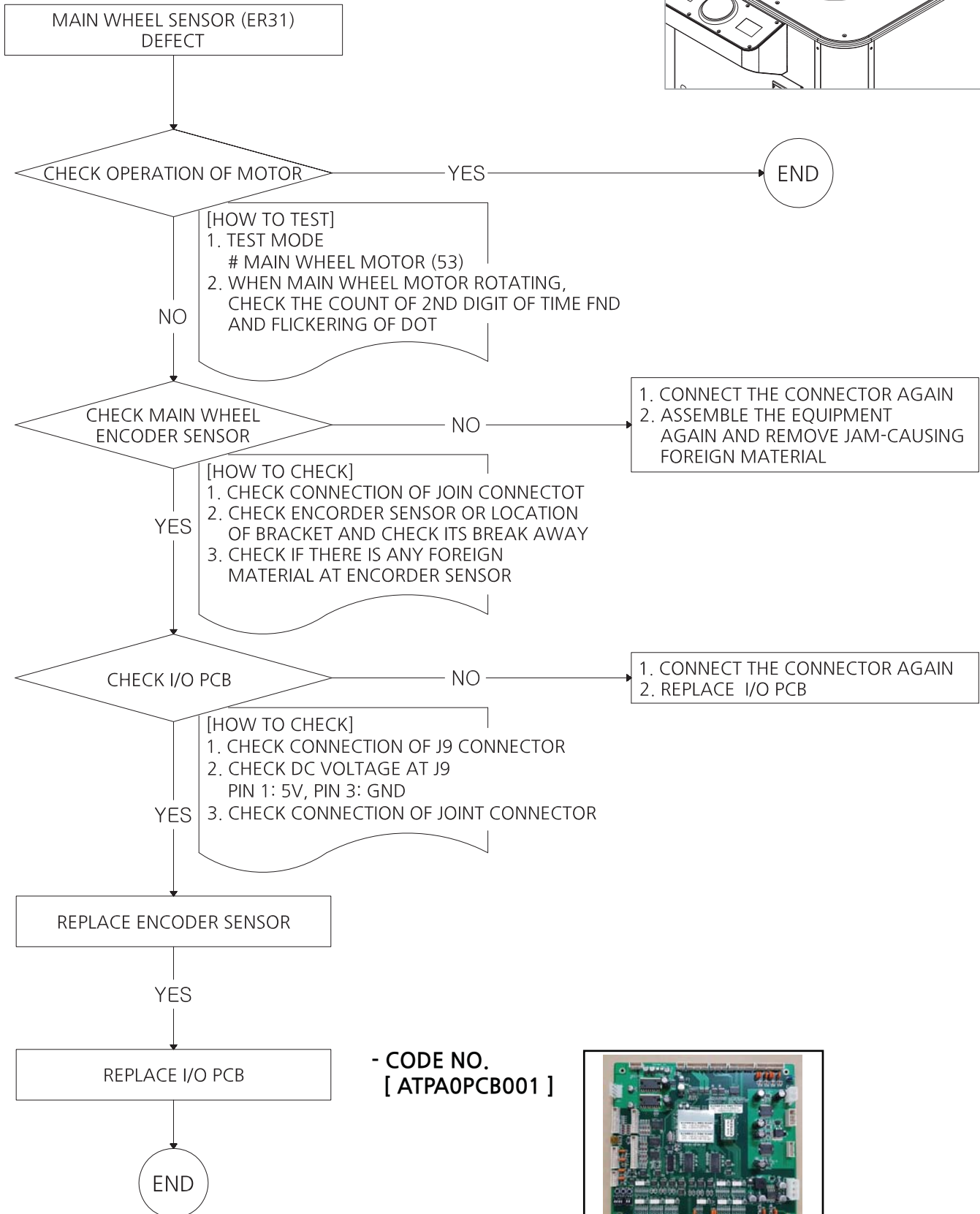
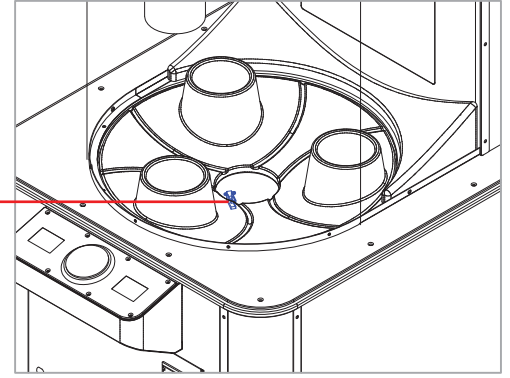


- CODE NO.
[ATPA0PCB001]



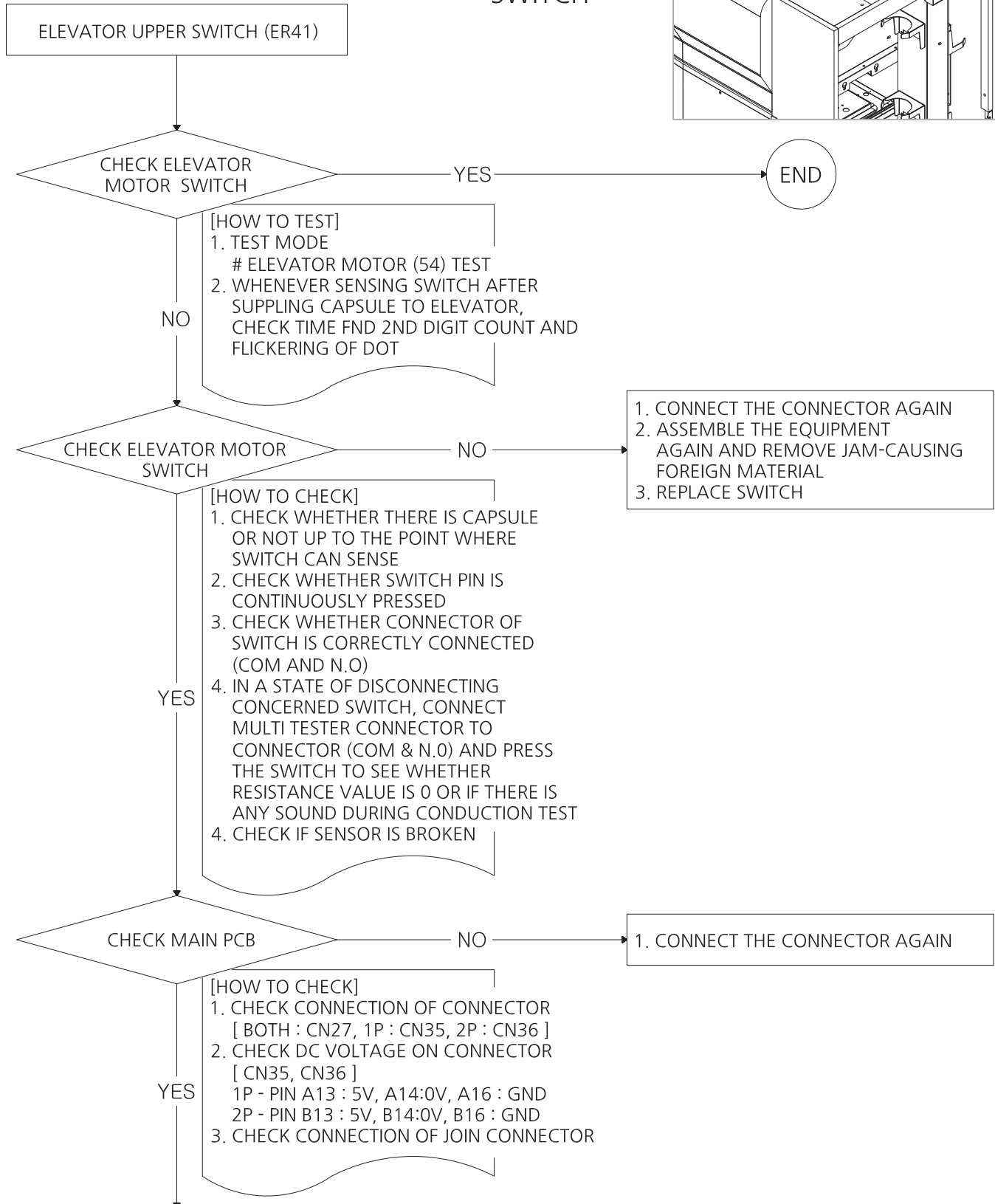
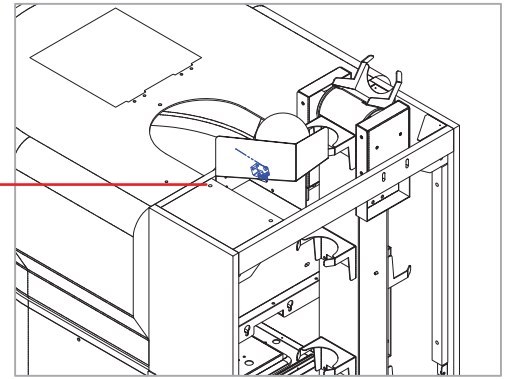
4-2. MAIN WHEEL SENSOR (ER31) DEFECT

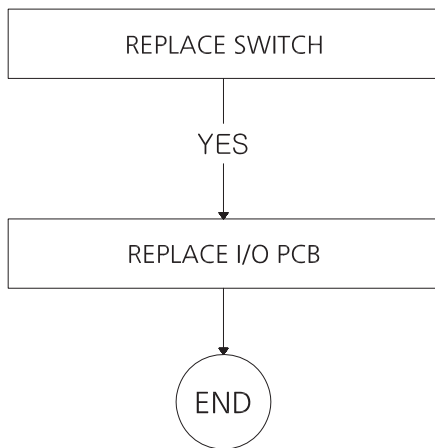
MAIN WHEEL ENCODER SENSOR



4-3. ELEVATOR UPPER SWITCH (ER41)

ELEVATOR TOP SWITCH

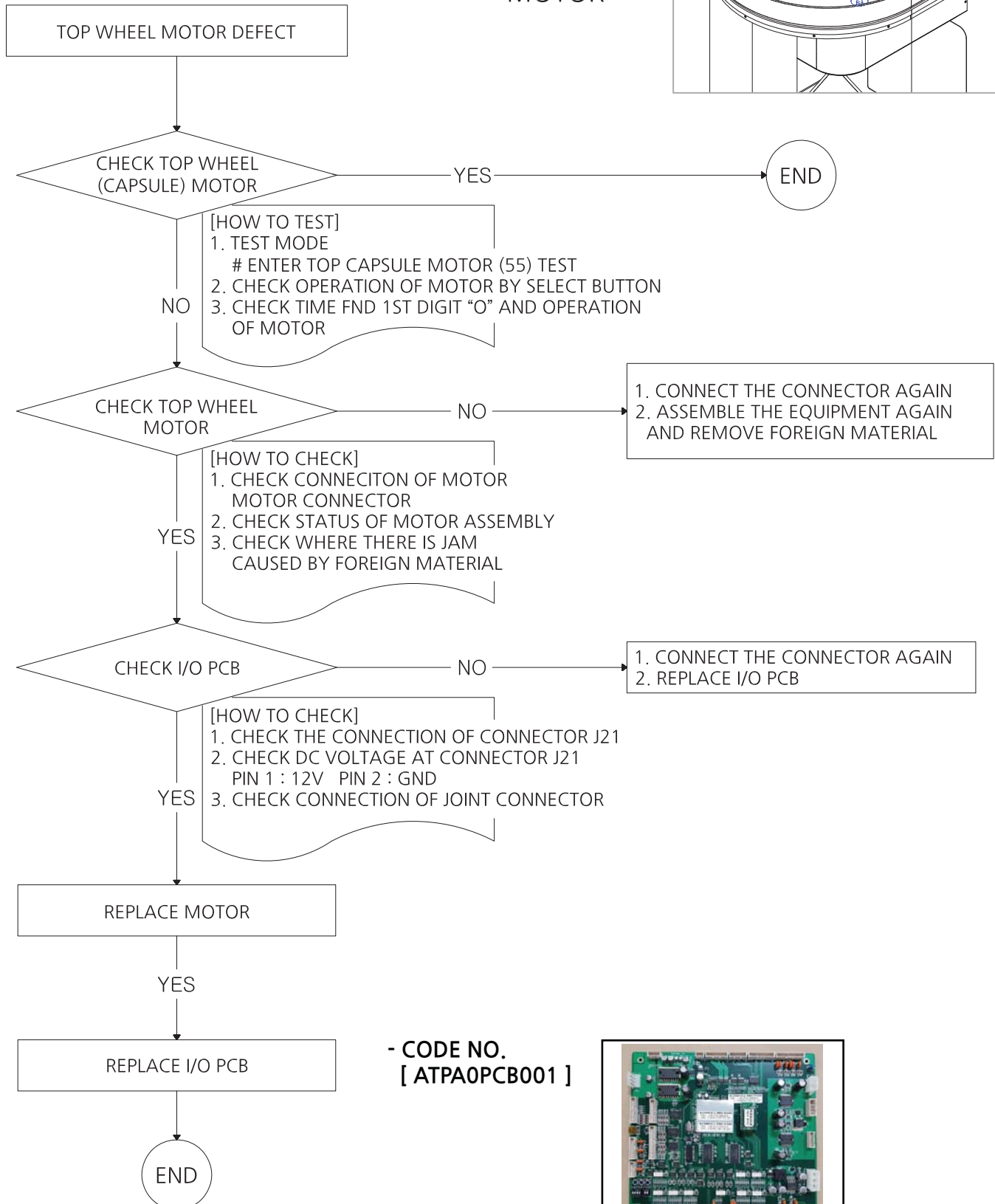
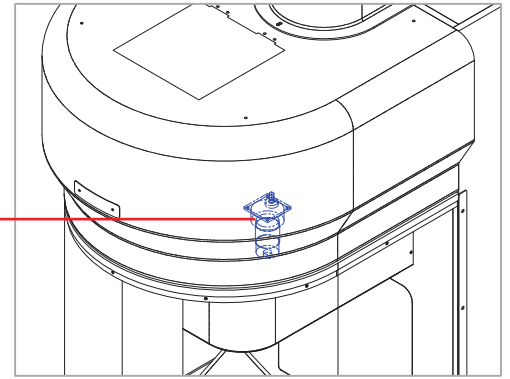




- CODE NO.
[ATPA0PCB001]

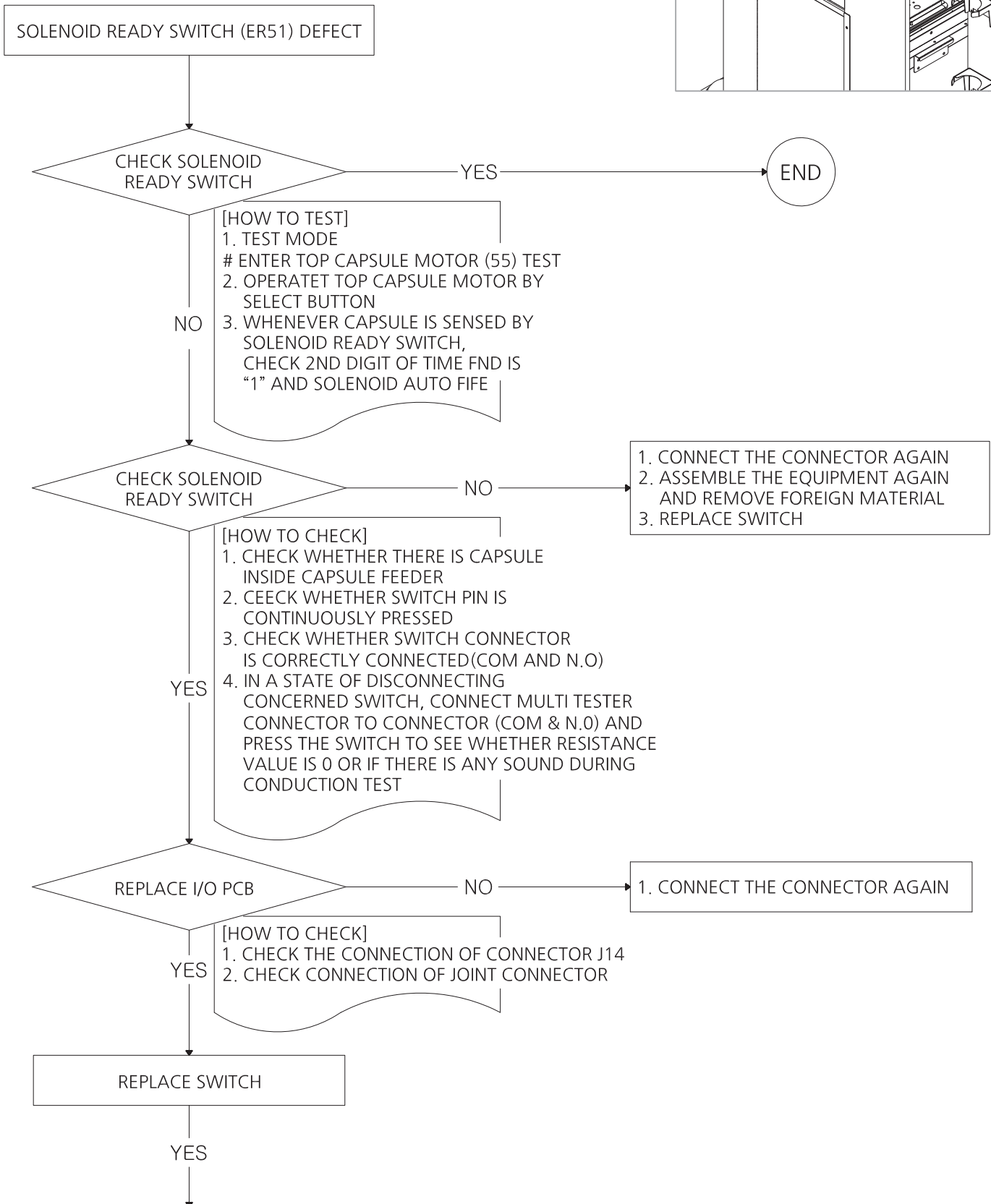
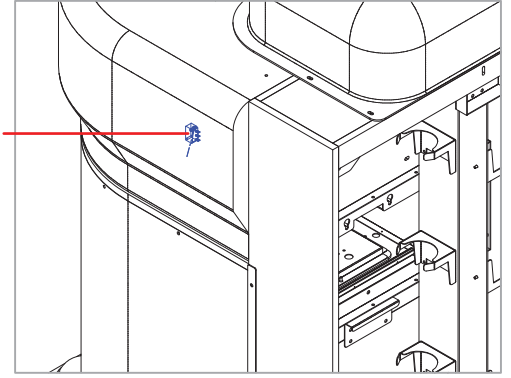


4-4. TOP WHEEL MOTOR DEFECT



4-5. SOLENOID READY SWITCH (ER51) DEFECT

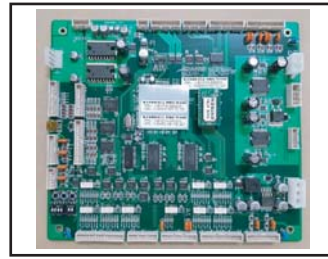
SOLENOID READY SWITCH



REPLACE I/O PCB

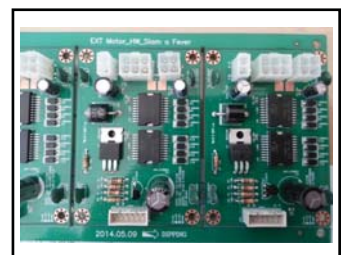
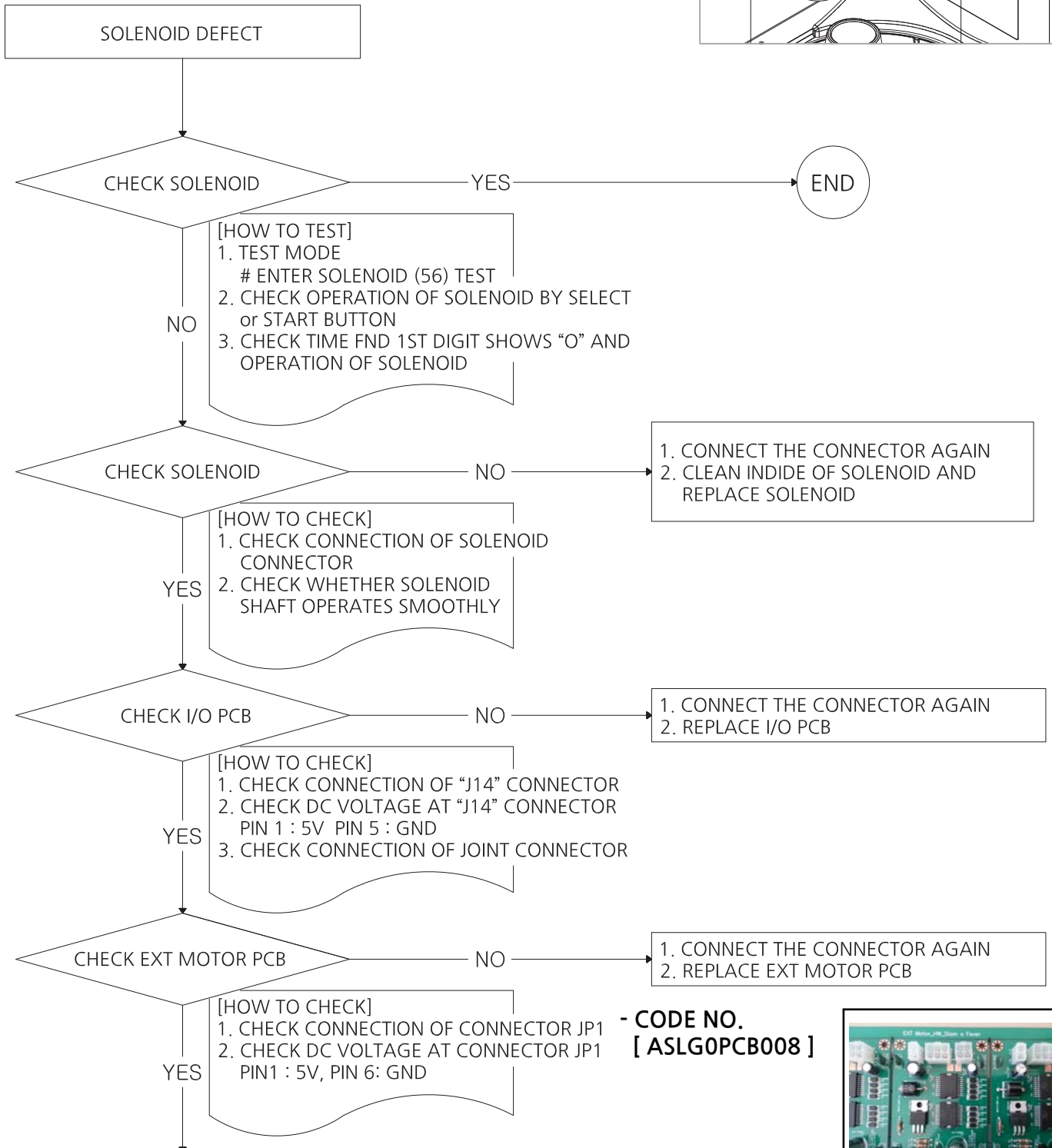
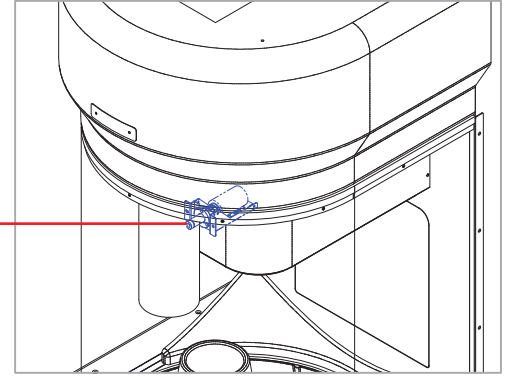
END

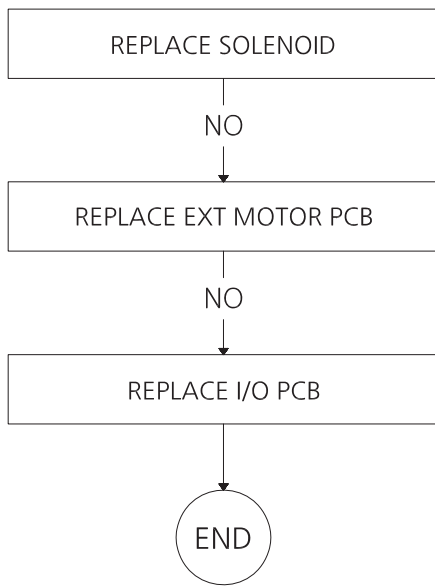
- CODE NO.
[ATPA0PCB001]



4-6. SOLENOID DEFECT

SOLENOID





- CODE NO.
[AELE0SOL001]



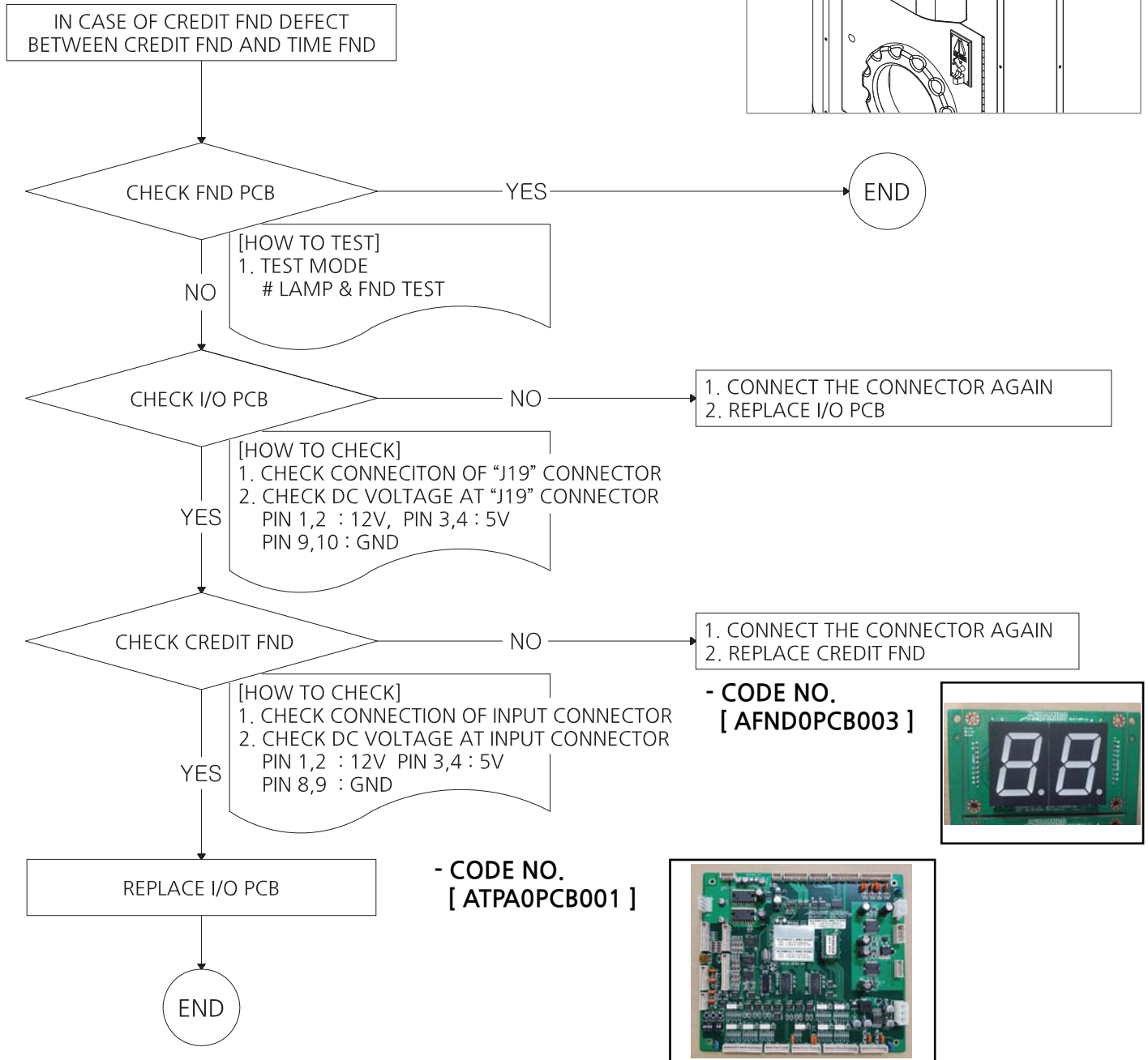
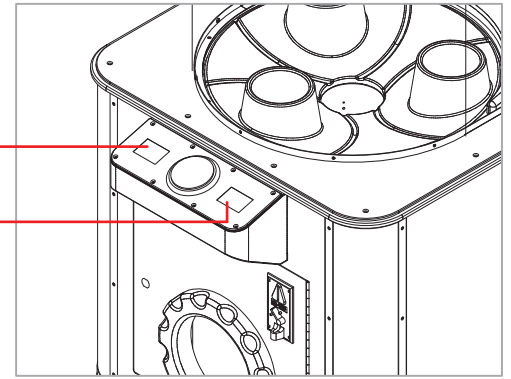
- CODE NO.
[ASLG0PCB008]



- CODE NO.
[ATPA0PCB001]

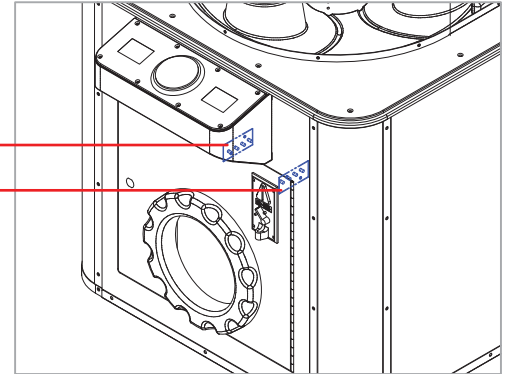


4-7. IN CASE OF CREDIT FND DEFECT BETWEEN CREDIT FND AND TIME FND

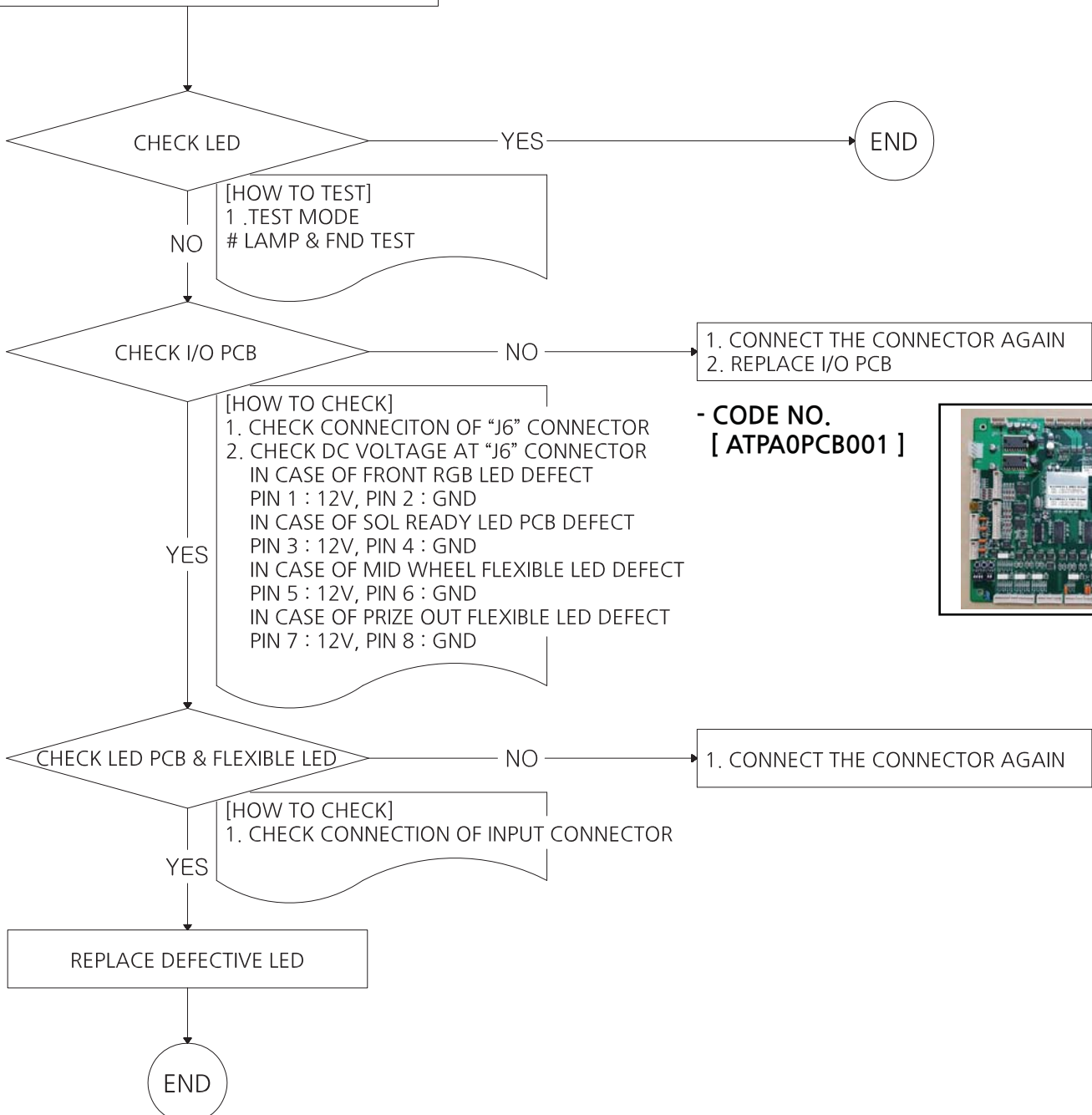


4-8.DEFECTS OF FRONT RGB LED, SOL READY LED, MID WHEEL FLEXIBLE LED, PRIZE OUT FLEXIBLE LED

PRIZE OUT SENSOR

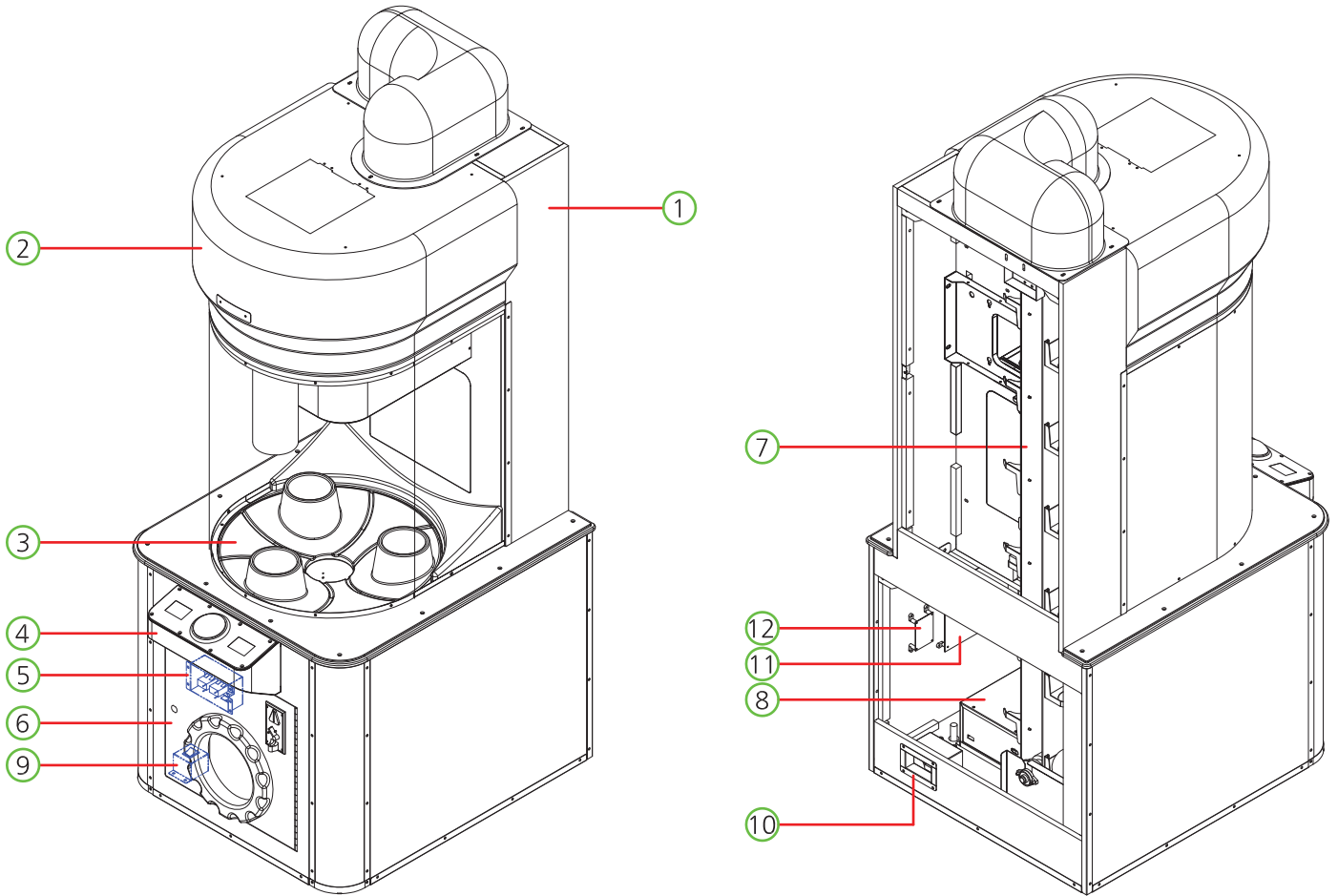


DEFECTS OF FRONT RGB LED, SOL READY LED ,
MID WHEEL FLEXIBLE LED, PRIZE OUT FLEXIBLE LED



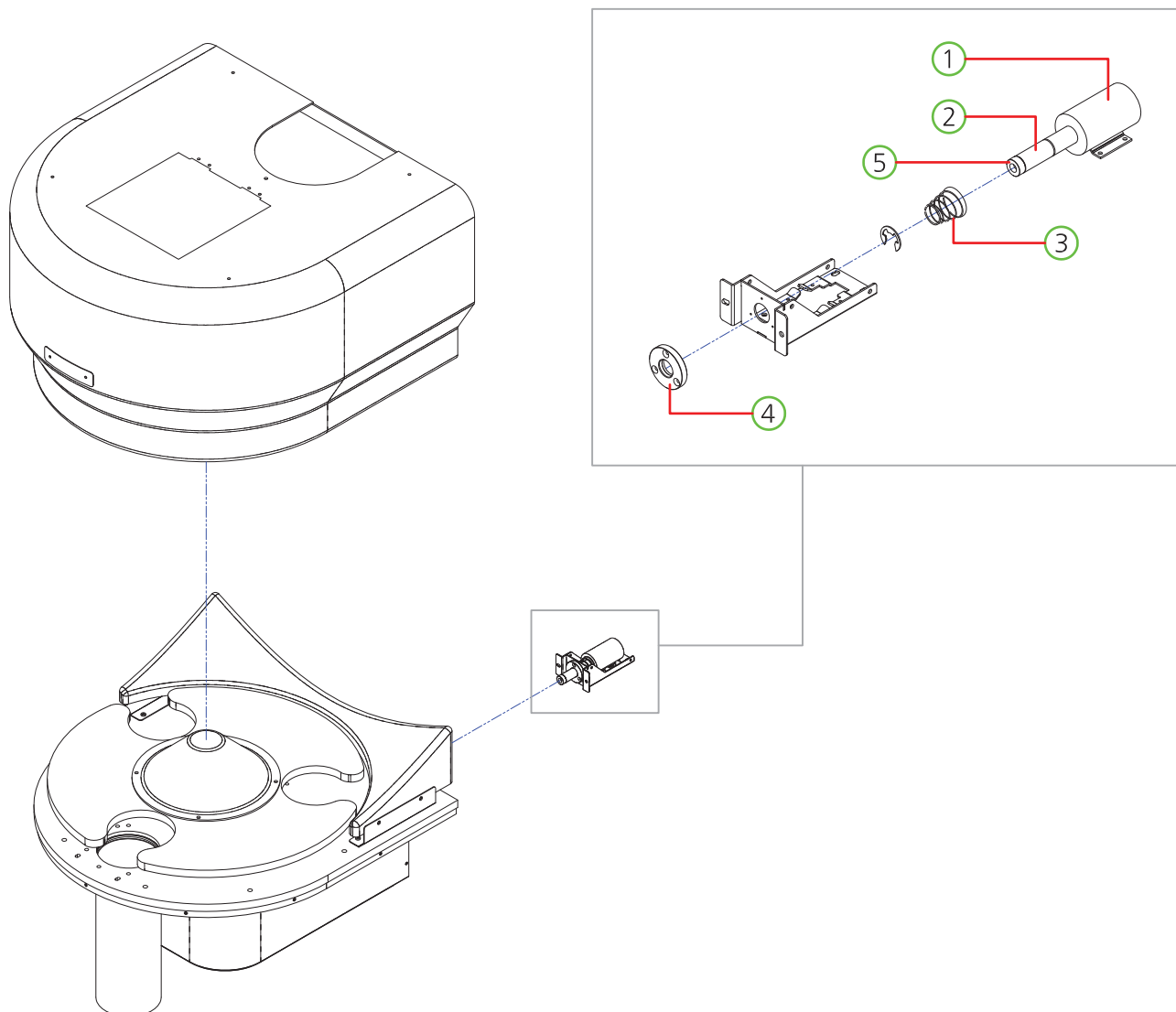
5. EXPLODED VIEW

5-1. MAIN CABINET PART



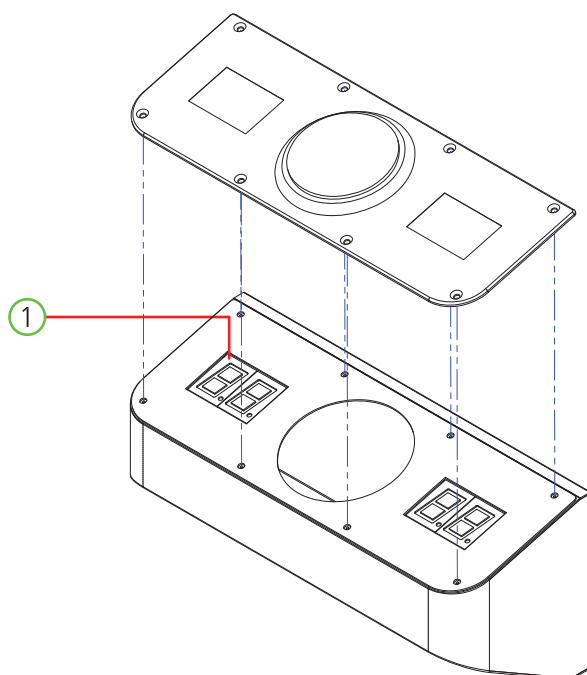
NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	MAIN CABINET	-	1	-
2	TOP CAPSULE DISPENSER PART	-	1	-
3	MAIN WHEEL PART	-	1	-
4	BUTTON PANEL PART	-	1	-
5	CONTROL PANEL PART	-	1	-
6	FRONT DOOR PART	-	1	-
7	CAPSULE ELEVATOR PART	-	1	-
8	POWER BOX PART	-	1	-
9	ROCKER SWITCH PART	-	1	-
10	AC INPUT PART	-	1	-
11	IO PCB ASS'Y	WITH CPU	1	ATPA0PCB001
12	EXT MOTOR PCB ASS'Y	-	1	ASLG0PCB008

5-2. TOP CAPSULE DISPENSER PART



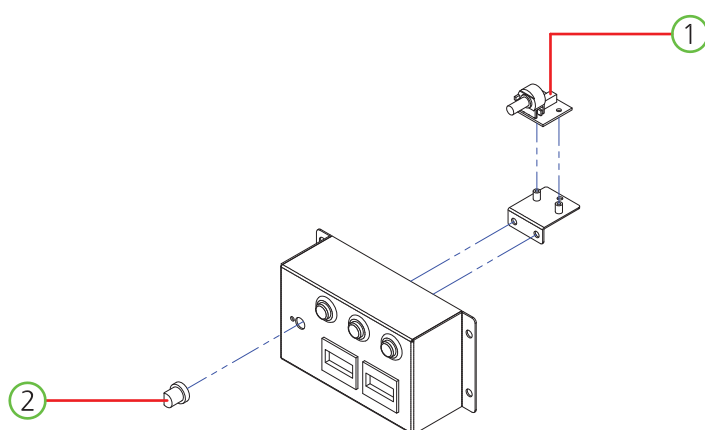
NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	SOLENOID ASS'Y	-	1	AELE0SOL001
	SOLENOID	M38022L	1	MELE0SOL008
2	SOLENOID SHAFT	-	1	MTPA0PRO003
3	SOLENOID SPRING	SUS304-Φ 1.0	1	MTPA0SPR001
4	SOLENOID SHAFT GUIDE PLATE	ACETAL	1	MTPA0PRO002
5	SOLENOID SHAFT FRONT CAP	ACETAL	1	MTPA0PRO001

5-3. BUTTON PANEL PART



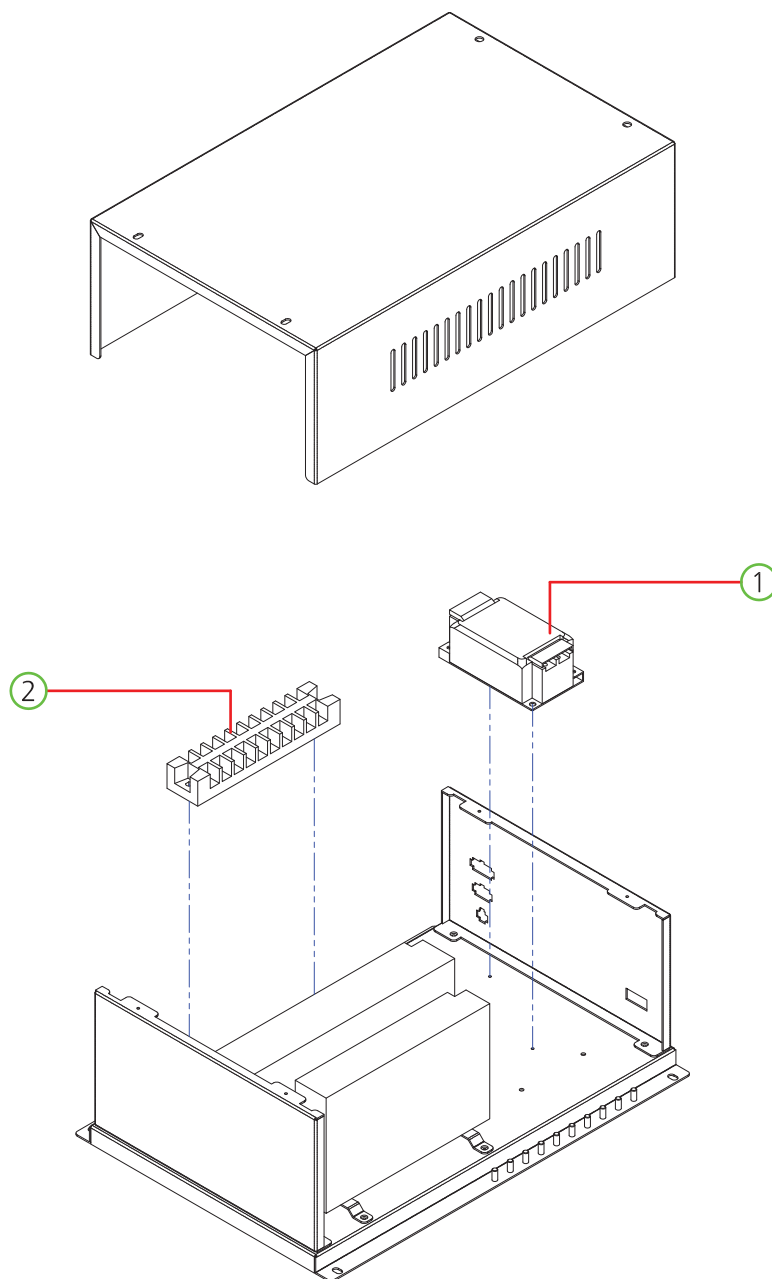
NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	FND PCB ASS'Y	2941-2(STRAIGHT)	2	AFND0PCB003

5-4. CONTROL PANEL PART



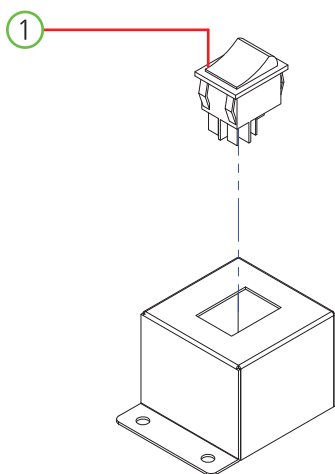
NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	VOLUME PCB ASS'Y	1 VOLUME	1	AHM20PCB016
2	VOLUME KNOB	CAP BLUE	1	MELE0VOL007

5-5. POWER BOX PART



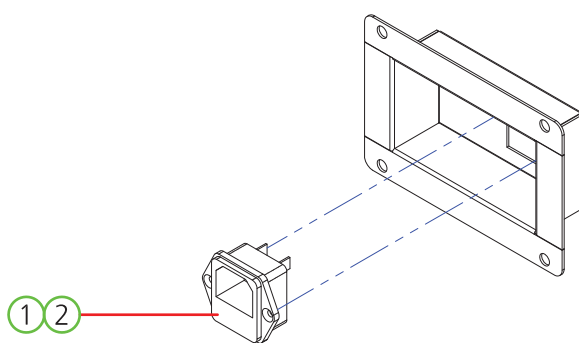
NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	NOISE FILTER	RNS-2010	1	MELE0NOI009
2	TERMINAL BLOCK	250V 10P UL_CE	1	MELE0TEB003

5-6. ROCKER SWITCH PART



NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	ROCKER SWITCH	R595KDF	1	MELE0SWI021

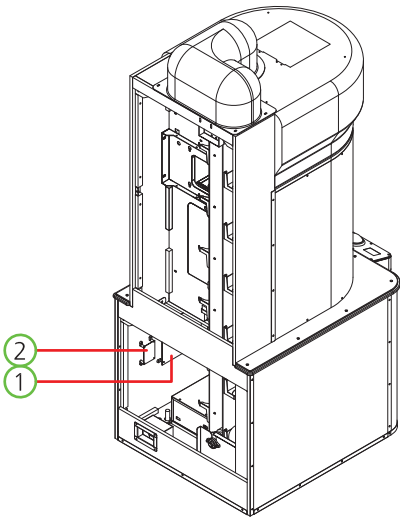
5-7. AC INPUT PART



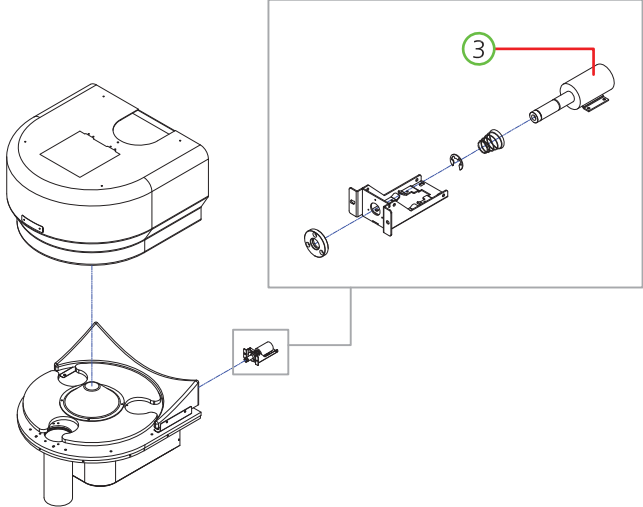
NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	AC INPUT	DAC-13H	1	MELE0SWI015
2	FUSE	0218010.MXP 250V, 10A,4PA	2	MELE0FUS018

6. PART PICTURE

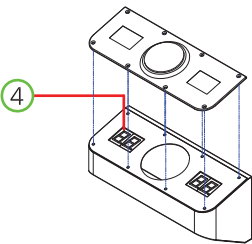
- MAIN CABINET PART



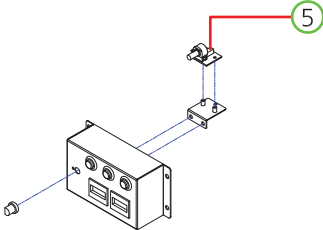
- TOP CAPSULE DISPENSER PART



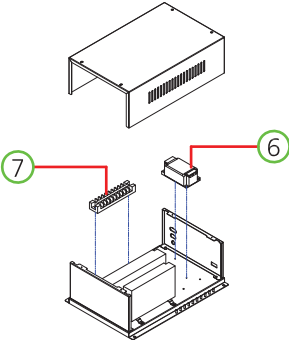
- BUTTON PANEL PART



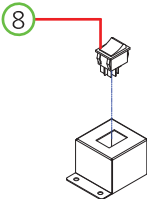
- CONTROL PANEL PART



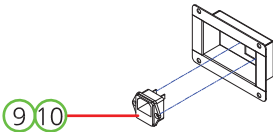
- POWER BOX PART



- ROCKER SWITCH PART



- AC INPUT PART



NO.	PIC	PART NAME	SPEC.	QTY	CODE NO.	WARRANTY	
						6 Month	One Year
①	○	IO PCB ASS'Y	WITH CPU	1	ATPA0PCB001		○
②	○	EXT MOTOR PCB ASS'Y	-	1	ASLG0PCB008		○
③	○	SOLENOID ASS'Y	-	1	AELE0SOL001	○	
		SOLENOID	M38022L	1	MELE0SOL008	○	
④	○	FND PCB ASS'Y	2941-2(STRAIGHT)	2	AFND0PCB003		○
⑤	○	VOLUME PCB ASS'Y	1 VOLUME	1	AHM20PCB016		○
⑥	○	NOISE FILTER	RNS-2010	1	MELE0NOI009	N / A	N / A
⑦	○	TERMINAL BLOCK	250V 10P UL_CE	1	MELE0TEB003	N / A	N / A
⑧	○	ROCKER SWITCH	R595KDF	1	MELE0SWI021	N / A	N / A
⑨	○	AC INPUT	DAC-13H	1	MELE0SWI015	N / A	N / A
⑩	○	FUSE	0218010.MXP 250V, 10A,4PA	2	MELE0FUS018	N / A	N / A

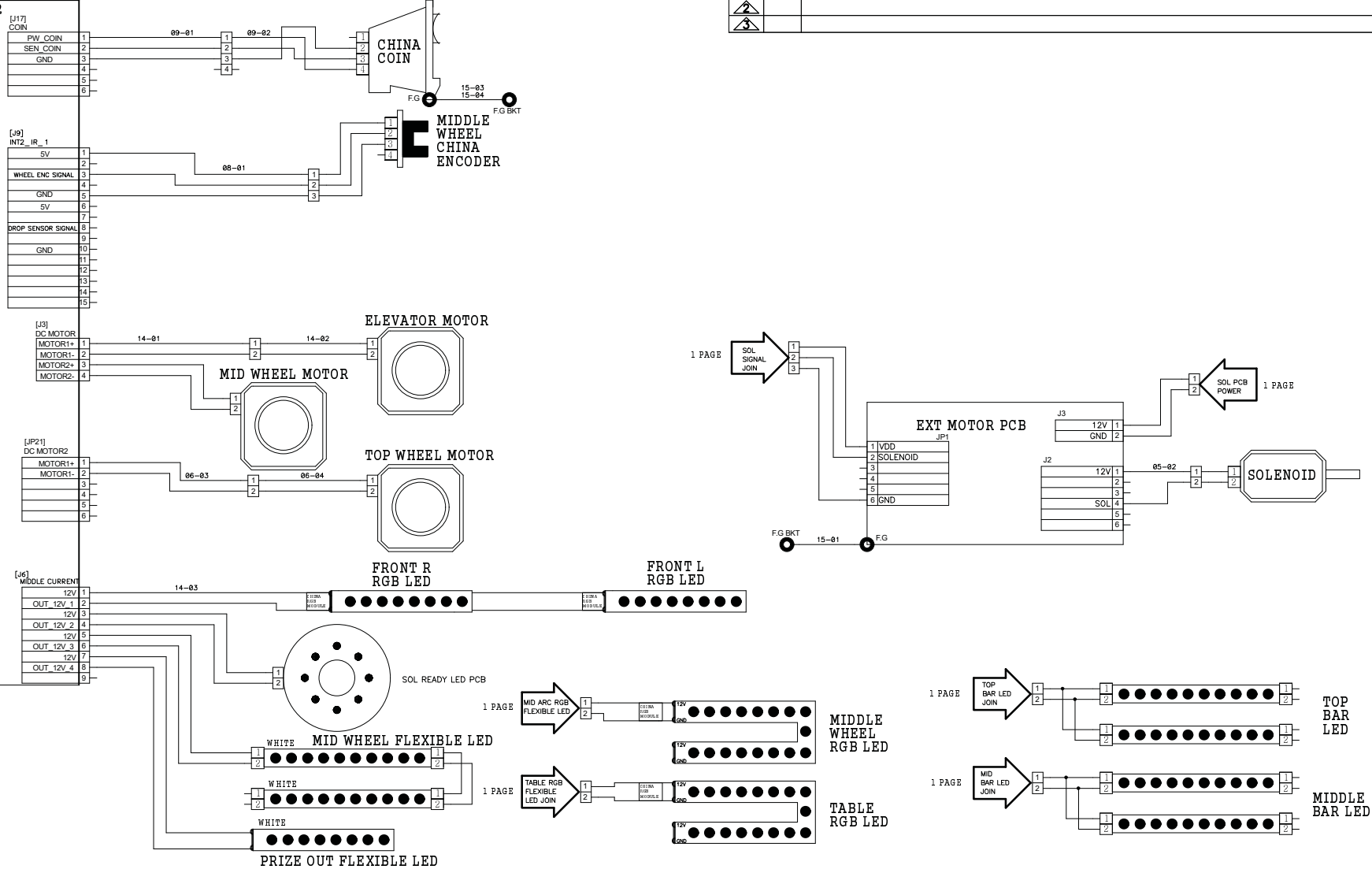
1	2	3	4	5	6
					
ATPA0PCB001	ASLG0PCB008	AELE0SOL001	AFND0PCB003	AHM20PCB016	MELE0NOI009

7	8	9	10
			
MELE0TEB003	MELE0SWI021	MELE0SWI015	MELE0FUS018

안다미로 1급 보안 문서
(당사 영업비밀 관리 규정 제27조(벌칙) 관계 법령에 의한 민. 형사상 책임과 사내 규정에 의하여 징계를 받을 수 있음)

MARK	DATE	REVISION
1		
2		
3		

I/O PCB 2/2



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DEPARTMENT	DRAWN BY	CHECKED BY	APPROVED BY	ITEM NAME	PRIZE AQUARIUM
H/W	H.B.KIM			DWG.NO	2 PAGE
				CODE.NO	
				DATE	2018.12.07



ANDAMIRO WARRANTY POLICY



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 Month 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.

ANDAMIRO CO., LTD.
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

For the on-line request, please visit our web-site, 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.



ANDAMIRO CO., LTD.
TEL : 82-31-909-2123~5

[ADDRESS OFFICE] 704-1 Techno Town, 138, Ilsan-ro, Ilsandong-gu, Goyang-si,
Gyeonggi-do, Republic of Korea 10442
[FACTORY] 72 Nochemgil, Ilsan-donggu Goyang-si, Gyonggi-do, 410-834 korea

USA BRANCH
ANDAMIRO USA CORP.
TEL : 1-310-767-5800

[ADDRESS] 17230 S. Main Street Gardena, California 90248 U.S.A.

Homepage <http://www.andamiro.com/>