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TOWER BALL

OWNER'S MANUAL

Version 1.0
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TOWER BALL

OWNER'S MANUAL



**Image used for illustration purposes only and may differ from actual product.*

IMPORTANT

- Please read the manual thoroughly before operating this machine.
- Please keep this manual within reach for easy reference.

PRECAUTIONS BEFORE USE

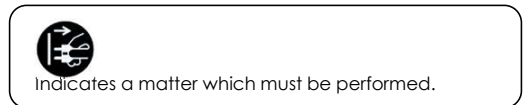
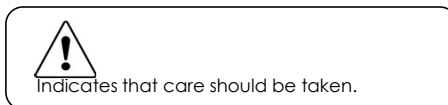
::: note

For safety reasons, the following suggestions should be adhered to:
It is essential to adhere to these precautions to ensure the safety of those involved in the installation, use, and maintenance of this product.
These precautions also help protect players, visitors, and property.
:::

For safety reasons, the following suggestions should be adhered to :



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



Safety Precautions

Certain procedures outlined in this user manual require the expertise of a qualified in-shop maintenance person or industry specialist. It is crucial to entrust these tasks to a qualified individual to avoid the risk of electric shock, machine malfunctions, or serious accidents.

- Only a qualified in-shop maintenance person or industry specialist should handle tasks such as replacing machine parts, inspecting and maintaining the machines, and troubleshooting.
- This manual provides instructions specifically for hazardous jobs that must be carried out by an industry specialist.

Qualified In-Shop Maintenance Person:

- A service staff member with experience in operating game machines, responsible for assembly, installation, inspection, and maintenance of the machine.

Industry Specialist:

- An individual engaged in designing, manufacturing, inspecting, and servicing amusement machines. They possess education in electrical, electronic, and mechanical engineering and regularly maintain and repair amusement machines.

PRECAUTIONS BEFORE USE



WARNING

Ensure the safety of individuals involved in the installation, movement, or transportation of this product by consulting an industry specialist.

- This product should only be set up, moved, or transported by an industry specialist.
- When installing this product, evenly set the 4 leg levelers on the floor and ensure stable installation to prevent injury or accidents.
- Avoid applying excessive force on movable parts during installation to prevent injury, accidents, or damage to the product.

This machine is intended for indoor use only. Do not install it outside. ⓧ

Do not place the machine near emergency exits. ⓧ

Protect the machine from the following:

- Rain or moisture
- Direct sunlight
- Direct heat from air-conditioning and heating equipment, etc.
- Hazardous flammable substances



Failure to observe these warnings may result in injury, accidental damage, or malfunction.

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

Do not place objects near the ventilating holes. ⓧ

Do not bend the power cord or place heavy objects on it. ⓧ

Never connect or disconnect the power cord with wet hands. ⓧ

Always use the power switch to turn off the power; never remove the power by pulling the power cord. ⓧ



CAUTION

Please take note of the following precautions:

- Ensure that indoor wiring within the specified voltage requirements is used. It is not recommended to use extension cables. If an extension cable must be used, make sure that its rating matches or exceeds the machine specifications. Never use a multi-connection extension cable.
 - Always use the provided power cord.
 - Avoid placing the power cord in areas where people may walk through.
 - Ensure proper grounding of this product.
 - Use caution when moving the machine to avoid exerting excessive force.
 - Maintain proper ventilation by keeping the machine at least 100mm (4") away from walls.
-

PRECAUTIONS BEFORE USE

CAUTION

::: Abnormality

If you notice any abnormality such as smoke, strange odors, or unusual noises coming from the machine, immediately turn OFF the main power switch and unplug the power cord.

:::

Using the machine under abnormal conditions may pose a fire hazard or lead to accidents.

In case of an abnormality:

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

Do not leave the power cord plugged in incorrectly or covered with dust. ⓧ

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

When handling the power cord, please follow these instructions:

- Do not damage, bend, heat, sandwich, modify, twist, pull, stand on, or drive a nail into the power cord. ⓧ

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

CAUTION

Do not use this machine in residential areas. Using it in a residential area or an area close to residential areas may interfere with signal reception of radios, televisions, telephones, etc. ⓧ

When opening or closing the glass door, always hold the glass with one hand and move the door gently. Careless handling may result in fingers getting trapped, pinched, or the glass shattering.

When moving the machine, do not push the glass section. Although tempered glass is used, it can still shatter if pressed hard. Personal injury can occur to the player or bystanders if the glass is shattered.

For safety reasons, do not allow the following people to play the game:

- Those with high blood pressure or heart problems
- Those who are intoxicated or under the influence of drugs
- Pregnant women
- Those who are in poor health
- Those who have experienced muscle convulsions or loss of consciousness while playing video games, etc.
- Even players who have never been adversely affected by light stimuli might experience dizziness or headaches depending on their physical condition when playing the game
- Those with neck or spinal cord problems

PRECAUTIONS BEFORE USE

CAUTION

To avoid injury from falls and electric shock due to spilled drinks, instruct the player not to place items such as drinks on the machine.

To avoid electric shocks and short circuits, do not allow customers to insert hands, fingers, or foreign objects into the openings of the machine or small openings around the doors.

To prevent falls and resulting injuries, immediately stop customers from leaning against or climbing upon the machine.

Instruct guardians to keep a close eye on small children at all times.

Children may not sense danger. Allowing small children to approach a player who is playing the game may result in them being bumped, stuck, or knocked.

WARNING

- Before inspecting or cleaning the machine, be sure to turn OFF the main power switch and unplug the power cord from the product. 
 - When replacing parts, always use parts of the correct specification. Never use parts other than those specified.
 - Opening the inside of the machine should only be done by a qualified machine specialist or engineer, as high current and voltages are present inside.
 - 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 may 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 disassembling and repairing parts that are not indicated in this manual, as well as from making any settings or modifications.
 - To clean the game machine, wipe it with a soft cloth dampened in a neutral detergent. Avoid using thinner or other organic solvents, as they may decompose the material. Water entering the inside of the machine can cause electrical shock or equipment failure.
-
- Components in the game are sensitive to vibrations and impact. Use caution when moving and transporting the game machine to prevent tipping over.
 - Before moving the machine, ensure that the main power switch is turned OFF, the power cord is unplugged from the receptacle, and the power cord is removed from the machine. 
 - When moving the machine, remove the levelers and move it on the casters. Avoid applying excessive force while moving the machine.
 - When setting up, inspecting, maintaining, moving, or transporting this product, always follow the procedures and instructions outlined in this manual and perform the work safely.
 - Do not set up, handle, inspect, maintain, move, or transport this product under conditions equivalent to the "WARNING" or "CAUTION" specified in this manual.
 - If this product is transferred to a new owner, be sure to provide them with this manual.

PRECAUTIONS BEFORE USE

DEFINITIONS OF SITE MAINTENANCE PERSONNEL OR OTHER QUALIFIED INDIVIDUALS

::: ⚠ **Warning: Authorized Service Personnel Only**

All servicing and maintenance work described in this manual must be performed by qualified service personnel in accordance with the IEC standard. Non-technical individuals without the appropriate technical expertise and knowledge are strictly prohibited from conducting any work described herein. Performing such tasks without proper qualifications may result in severe accidents that could endanger lives.

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Part replacement, maintenance inspections, and troubleshooting should be carried out by site maintenance personnel or other qualified professionals. This manual includes directions for potentially dangerous procedures that should only be performed by professionals with the appropriate specialized knowledge.

The site maintenance personnel or other qualified professionals mentioned in this manual are defined as follows:

Site Maintenance Personnel:

Individuals with experience in maintaining amusement equipment, vending machines, etc., working under the supervision of the owner/operator of this product to maintain machines within amusement facilities or similar premises. They carry out everyday procedures such as assembly, maintenance inspections, and replacement of units/expendable parts.

Activities to be carried out by site maintenance personnel:

- Amusement equipment/vending machine assembly
- Maintenance inspection
- Replacement of units/expendable parts

Other Qualified Professionals:

Persons employed by amusement equipment manufacturers, or involved in the design, production, testing, or maintenance of amusement equipment. The individual should have either graduated from technical school or hold similar qualifications in electrical, electronics, or mechanical engineering.

Activities to be carried out by other qualified professionals:

- Amusement equipment/vending machine assembly
- Repair/adjustment of electrical/electronic/mechanical parts

PRÉCAUTIONS DE L'EMPLOI

::: note

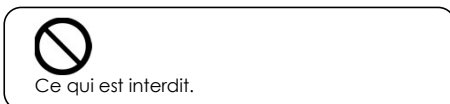
Ce manuel décrit des précautions de sécurité à respecter strictement non seulement afin de protéger les personnels à installer, utiliser ou maintenir ce produit également les joueurs, les visiteurs, les propriétés.

:::

Pour la raison de sécurité, les signalisations suivantes sont adhérees :



Les signalisations au-dessous sont des recommandations à respecter.



Précautions de sécurité

Certaines procédures nécessitent un entretien sous le contrôle du personnel qualifié ou spécialisé en industrie. Pour effectuer les instructions mentionnées, le personnel qualifié devrait s'occuper des occasions suivantes :

- Sinon, il se peut que le choc électrique, le dysfonctionnement de la machine ou des accidents sérieux surviennent.
- Le remplacement, l'inspection et la maintenance de la machine, ainsi que le dépannage doivent être pris en charge par le personnel qualifié ou spécialisé en industrie. Ce livret donne des instructions que des emplois dangereux doivent en particulier être manipulés par un spécialiste de l'industrie.

Le personnel qualifié chargé de l'entretien :

- Les membres du service doivent avoir de l'expérience dans les opérations de la machine aux jeux et être responsables dans le domaine de l'assemblage, de l'installation, de l'inspection et de la maintenance de la machine.

Spécialiste industriel :

- Le spécialiste industriel est chargé de l'élaboration, la fabrication, l'inspection et la maintenance de la machine. Il ou elle doit avoir une connaissance approfondie en électricité et en ingénierie mécanique, ainsi que des compétences régulières en matière de maintenance et de service de la machine.

PRÉCAUTIONS DE L'EMPLOI



AVERTISSEMENT

Assurez-vous de consulter du personnel industriel lors de l'installation, du déplacement ou du transport de ce produit.

- Ce produit ne doit pas être installé, livré ou transporté autrement que par un spécialiste industriel.
- Lors de l'installation de ce produit, placez les 4 niveaux des pieds uniformément sur le sol et assurez-vous que le produit est installé de manière stable pour éviter les blessures ou les accidents.
- Lors de l'installation de ce produit, n'appliquez pas de force excessive sur les parties mobiles.

Cette machine est destinée uniquement à une utilisation intérieure. Ne pas l'installer à l'extérieur. ⓧ

Ne placez pas la machine près de la sortie de secours. ⓧ

Évitez les circonstances suivantes :

- Pluie ou humidité
- Lumière directe du soleil
- Chaleur directe provenant de la climatisation et du chauffage, etc.
- Substances inflammables dangereuses



Le non-respect de ces avertissements peut entraîner des blessures, des dommages accidentels ou un dysfonctionnement.

Ne placez pas de conteneurs contenant des produits chimiques ou de l'eau sur ou près de la machine. ⓧ

Ne placez pas d'objet près des trous de ventilation. ⓧ

Ne pliez pas le cordon d'alimentation ni ne placez d'objets lourds dessus. ⓧ

Ne branchez jamais ou débranchez le cordon d'alimentation avec les mains mouillées. ⓧ

N'éteignez jamais l'alimentation en tirant sur le cordon électrique, utilisez toujours l'interrupteur d'alimentation. ⓧ



PRÉCAUTION/PRUDENCE

Veillez prendre note des précautions suivantes :

- Assurez-vous d'utiliser le câblage intérieur dans les exigences de tension indiquées. Il n'est pas recommandé de rallonger le câblage. En cas de besoin de rallonger le câble, assurez-vous que l'extension de câble est conforme aux recommandations du cahier des charges de la machine ou plus. N'utilisez jamais de rallonge avec des prises multiples.
- Assurez-vous d'utiliser le cordon d'alimentation fourni avec la machine.
- Ne placez pas le cordon d'alimentation là où les personnes marchent.
- Assurez-vous de mettre à la terre ce produit.
- N'exercez pas une force excessive lors du déplacement de la machine.
- Pour une ventilation appropriée, gardez la machine à au moins 100 mm (4") des murs.

PRÉCAUTIONS DE L'EMPLOI



PRÉCAUTION/PRUDENCE

::: Anomalie

Si vous remarquez une anomalie telle que de la fumée, une mauvaise odeur ou un bruit inhabituel provenant de la machine, éteignez immédiatement l'interrupteur principal et débranchez le cordon d'alimentation.

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Utiliser la machine dans des conditions anormales peut entraîner un risque d'incendie ou d'accidents.

En cas d'anomalie :

1. Éteignez l'interrupteur principal.
2. Débranchez le cordon d'alimentation de la machine.
3. Contactez votre revendeur le plus proche.

Ne laissez pas le cordon d'alimentation branché de manière incorrecte ou couvert de poussière. Ⓢ

Ne branchez ni ne débranchez jamais le cordon d'alimentation avec des mains mouillées. Ⓢ

Lorsque vous manipulez le cordon d'alimentation, veuillez suivre les instructions suivantes :

- Ne pas endommager, plier, chauffer, coincer, modifier, tordre, tirer, ou poser d'objet lourd sur le cordon d'alimentation. Ⓢ

Si le cordon d'alimentation ou la prise de courant est endommagé, cessez immédiatement d'utiliser la machine et demandez à votre revendeur le plus proche de remplacer les pièces.



PRÉCAUTION/PRUDENCE

Utilisez cette machine uniquement dans des zones industrielles. L'utilisation dans une zone résidentielle ou à proximité peut perturber la réception des signaux radios, télévisions, téléphones, etc. Ⓢ

Lors de l'ouverture ou de la fermeture de la porte en verre, tenez toujours le verre d'une main et déplacez la porte avec précaution. Une manipulation négligente peut entraîner des doigts coincés, pincés ou la rupture du verre.

Lors du déplacement de la machine, ne poussez pas la section en verre. Bien que du verre trempé soit utilisé, il peut se briser en cas de pression excessive. Cela peut entraîner des blessures pour le joueur ou les spectateurs.

Pour des raisons de sécurité, ne permettez à aucune des personnes suivantes de jouer au jeu :

- Ceux qui ont une pression artérielle élevée ou des problèmes cardiaques
- Ceux qui sont intoxiqués ou sous l'influence de drogues
- Les femmes enceintes
- Ceux qui ne sont pas en bonne santé
- Ceux qui ont déjà eu des convulsions musculaires ou une perte de conscience en jouant à des jeux vidéo, etc
- Même les joueurs qui n'ont jamais été affectés négativement par des stimuli lumineux peuvent ressentir des vertiges ou des maux de tête en fonction de leur état de santé lorsqu'ils jouent au jeu
- Ceux qui ont des problèmes de cou ou de moelle épinière

PRÉCAUTIONS DE L'EMPLOI



PRÉCAUTION/PRUDENCE

Pour éviter les chutes et les chocs électriques dus à des boissons renversées, veuillez informer les joueurs de ne pas poser d'objets liquides sur la machine.

Pour éviter les chocs électriques et les courts-circuits, ne permettez pas aux clients d'insérer des mains, des doigts ou des objets étrangers dans les ouvertures de la machine ou les petites ouvertures autour des portes.

Pour éviter les chutes et les blessures, arrêtez immédiatement les clients de s'appuyer ou de grimper sur la machine.

Demandez aux gardiens de surveiller attentivement les petits enfants.

Les enfants peuvent ne pas percevoir les dangers. Permettre aux petits enfants de s'approcher d'un joueur qui joue au jeu peut entraîner des chocs, des blocages ou des coups.



AVERTISSEMENT

- Assurez-vous d'éteindre l'interrupteur principal d'alimentation et de débrancher le cordon d'alimentation avant d'inspecter ou de nettoyer la machine.



- Utilisez uniquement des pièces conformes aux spécifications requises lors du remplacement des pièces.

- L'ouverture de l'intérieur de la machine doit être effectuée par un spécialiste ou un ingénieur qualifié en raison des courants élevés et des tensions présents à l'intérieur.

- Si le commutateur de pouvoirs du panneau de service est éteint sans se tourner de commutateur de puissance principal de l'unité d'alimentation secteur, quelques parties dans les unités restent vivantes.



- Lors de l'ouverture de la porte arrière, assurez-vous d'éteindre l'interrupteur principal d'alimentation et de débrancher le cordon d'alimentation.

- Il est strictement interdit de démonter, réparer ou modifier des pièces non spécifiées dans ce manuel.

- Nettoyez la machine avec un chiffon doux humidifié dans un détergent neutre, en évitant l'utilisation de solvants organiques ou d'alcool.

- Veillez à ce que l'eau ne pénètre pas à l'intérieur de la machine pour éviter les chocs électriques et les défaillances de l'équipement.

- Les composants du jeu sont sensibles aux vibrations et aux impacts. Faites preuve de prudence lors du déplacement et du transport de la machine de jeu pour éviter les basculements.

- Avant de déplacer la machine, assurez-vous d'éteindre l'interrupteur principal d'alimentation, de débrancher le cordon d'alimentation de la prise et de retirer le cordon d'alimentation de la machine. Lors du déplacement de la machine, retirez les niveleurs et déplacez-la sur les roulettes.



- Évitez d'appliquer une force excessive lors du déplacement de la machine. Lors de l'installation, de l'inspection, de la maintenance, du déplacement ou du transport de ce produit, suivez toujours les procédures et les instructions décrites dans ce manuel et effectuez le travail en toute sécurité.

- N'installez pas, ne manipulez pas, n'inspectez pas, ne maintenez pas, ne déplacez pas ou ne transportez pas ce produit dans des conditions similaires à celles indiquées dans cet avertissement ou cette mise en garde.

- Si ce produit est transféré à un nouveau propriétaire, veuillez à lui remettre ce manuel.

PRÉCAUTIONS DE L'EMPLOI

DÉFINITION DE PERSONNEL D'ENTRETIEN OU AUTRE INDIVIDUELS QUALIFIÉS

::: ⚠ **Avertissement : personnel de service agréé uniquement**

L'entretien et la maintenance du contenu exposé doivent être exécutés par le personnel de service selon la Norme IEC. Les personnes qui n'ont pas l'expertise technique et les connaissances requises ne sont pas autorisées à effectuer le travail décrit dans ce document. Effectuer de telles tâches sans les qualifications nécessaires peut entraîner de graves accidents mettant en danger la vie.

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Le remplacement de pièces, les inspections de maintenance et le dépannage doivent être effectués par le personnel de maintenance sur site ou d'autres professionnels qualifiés. Ce manuel contient des instructions pour des procédures potentiellement dangereuses qui ne doivent être réalisées que par des professionnels possédant les connaissances spécialisées appropriées.

Le personnel de maintenance sur site ou les autres professionnels qualifiés mentionnés dans ce manuel sont définis comme suit :

Personnel de maintenance sur site :

Des individus ayant de l'expérience dans l'entretien d'équipements de divertissement, de distributeurs automatiques, etc., travaillant sous la supervision du propriétaire/exploitant de ce produit pour entretenir des machines dans des installations de divertissement ou des locaux similaires. Ils effectuent des procédures courantes telles que l'assemblage, les inspections de maintenance et le remplacement de pièces/unités consommables.

Activités à effectuer par le personnel de maintenance sur site :

- Assemblage d'équipements de divertissement/distributeurs automatiques
- Inspections de maintenance
- Remplacement de pièces/unités consommables

Autres professionnels qualifiés :

Personnes employées par des fabricants d'équipements de divertissement ou impliquées dans la conception, la production, les tests ou la maintenance d'équipements de divertissement. L'individu doit avoir soit obtenu un diplôme d'une école technique, soit posséder des qualifications similaires en génie électrique, électronique ou mécanique.

Activités à effectuer par d'autres professionnels qualifiés :

- Assemblage d'équipements de divertissement/distributeurs automatiques
- Réparation/ajustement de pièces électriques/électroniques/mécaniques

WEEE STATEMENT

WASTE OF ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) STATEMENT

::: For UK and EU Countries:

The WEEE (Waste of Electrical and Electronical Equipment) directive places an obligation on all EU based manufactures, distributors, retailers and importers to take back electronics products at the end of their useful life. EU-based manufacturers, distributors, retailers and importers are obliged to finance the costs of treatment and recovery of redundant WEEE in accordance with the specified WEEE recycling requirements.

:::

Instruction for Disposal of WEEE by Users in the UK and the European Union

The symbol shown below will be present on all products manufactured from 13th August 2005, which indicates this product must NOT be disposed of with other normal waste. Instead, it is the user's responsibility to dispose of their waste equipment by arranging to return it to a designated collection point for the correct recycling of waste electrical and electronic equipment.

For more information about where you can send your waste equipment for recycling, please contact your local authority office.

BATTERY RECYCLING STATEMENT

::: The EC Directive on Batteries and Accumulators (2006/66/EC) aims to minimize the impact of batteries on the environment and encourage the recovery of the materials they contain. To achieve increased collection and recycling of waste batteries, the Directive places 'producer responsibility' obligations on manufacturers and importers of portable, industrial and automotive batteries.

:::

The symbol shown below will be on all equipment fitted with batteries from 26th September 2008 and indicates they must NOT be disposed of with other normal waste. Instead, it is the user's responsibility to dispose of used batteries by arranging to return them to a designated collection point for the correct recycling.

For more information about where you can send your waste batteries for recycling contact your local authority office.



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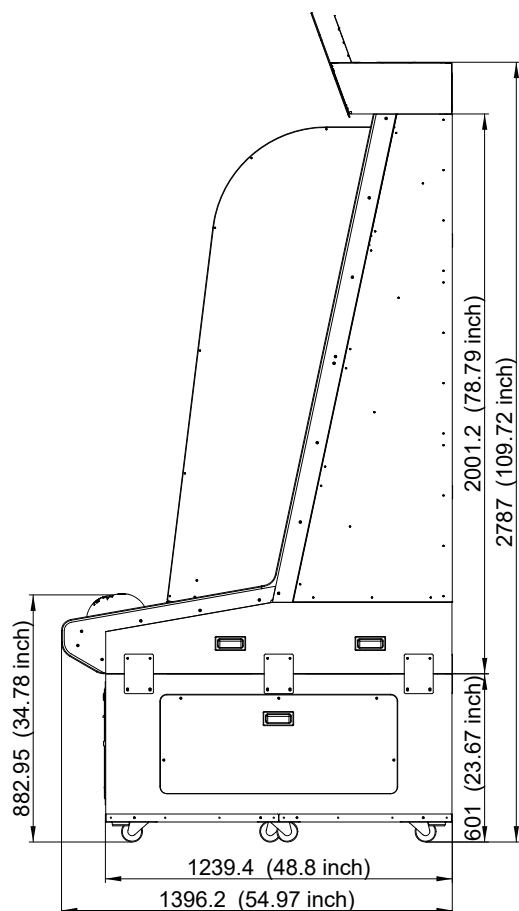
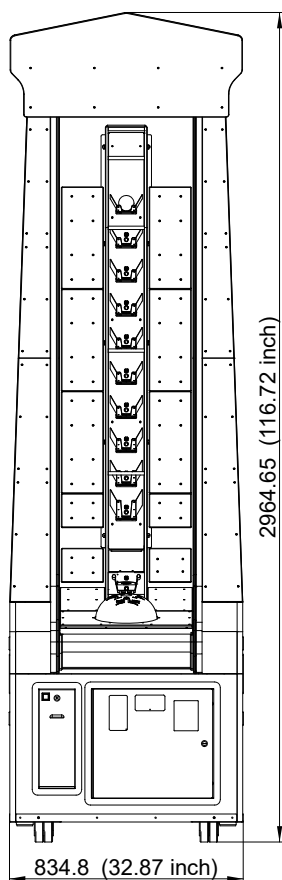
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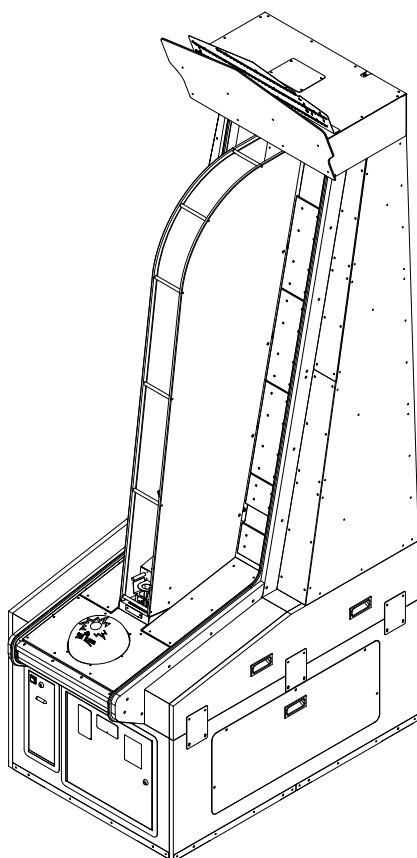
14. Sheet (58p)

1. Dimensions & Specification

1-1. Dimensions



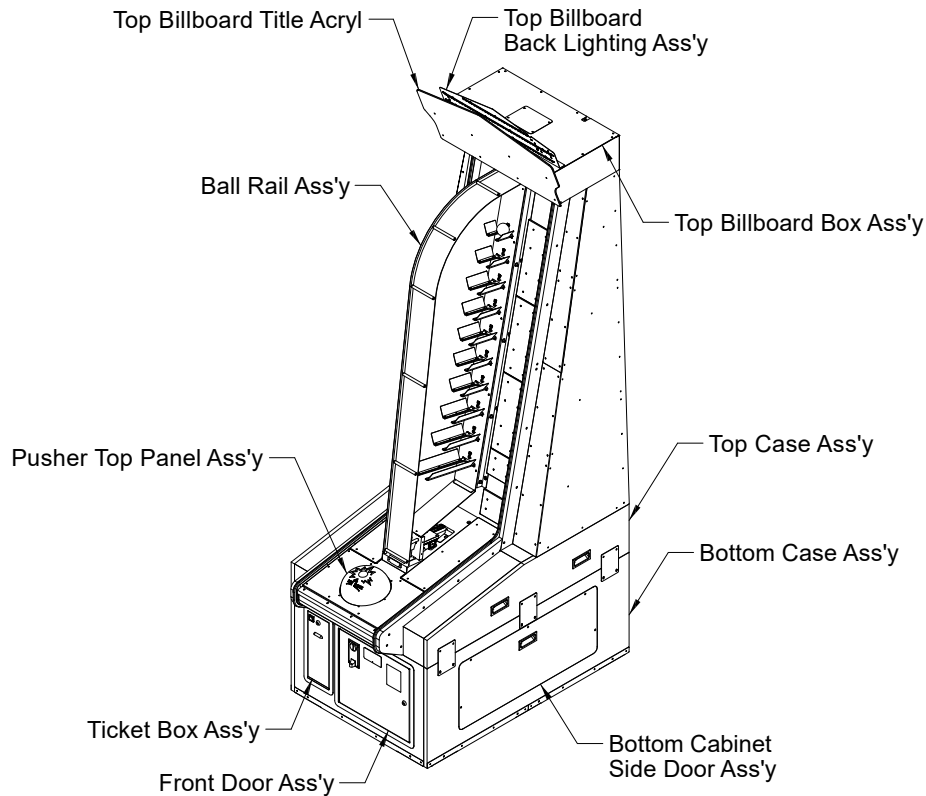
1-2. Specification



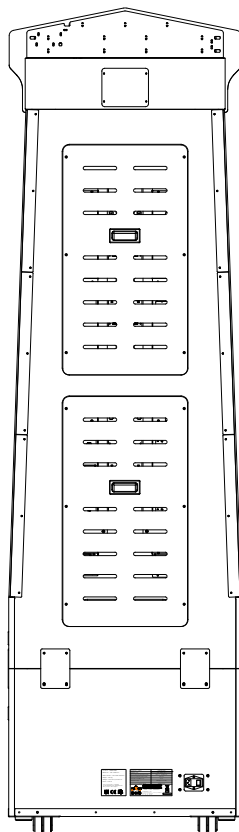
ELECTRICAL RATING (V/Hz)	120 V~ 60 Hz	230 V~ 50/60 Hz
RATED POWER INPUT (W)	350 W	230 W
RATED CURRENT (A)	3.5 A	1.5 A
WEIGHT (kg)	232 kg (511.5 lb)	

2. Name of Parts & Sticker Location

2-1. Name of Parts



2-2. Sticker Location



Product : TOWER BALL
Model No. : KM-TOW-001
Serial number : KM-TOW-0000001
Weight : 232 kg
Voltage : 230 VAC @ 50/60 Hz
Power : 230 W

Sega Amusements International
42 Barwell Business Park, Leatherhead Road
Chessington, Surrey, KT9 2NY, United Kingdom



AMUSEMENT GAME MACHINE

CONFORMS TO UL STD. 22 &
CERTIFIED TO CSA STD. C22.2 No.60335-1 & CSA STD. No.60335-2-82
Suitable for Indoor Use Only

MODEL NO : KM-TOW-001
POWER REQUIREMENTS : 120 V~, 60 Hz
POWER CONSUMPTION : 350 W (3.5 A)
SERIAL NO : KM-TOW-0000001



RoHS
MADE IN KOREA



PRODUCT NAME	TOWER BALL
MODEL NO.	KM-TOW-001
ELECTRICAL RATING (V/Hz)	230 V~, 50/60 Hz
RATED POWER INPUT (W)	230 W
RATED CURRENT (A)	1.5 A
WEIGHT (kg)	232 kg (511.5 lb)
MANUFACTURING DATE	2026.00.00



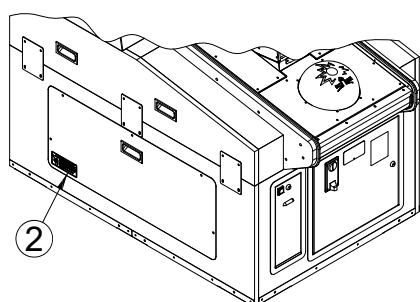
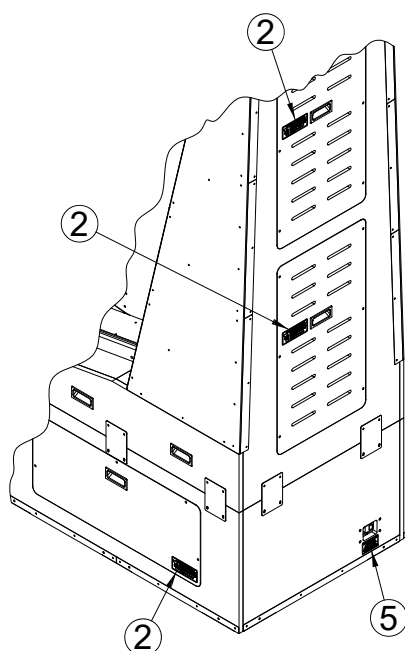
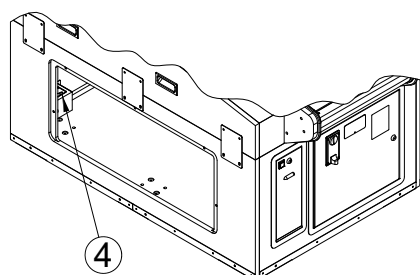
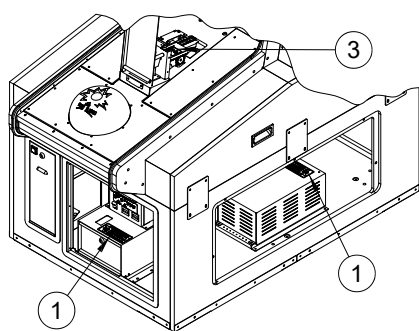
KM-TOW-0000001

KOMUSE CO., LTD
41 Jeokseongsandan-ro, Jeokseong-myeon, Paju-si,
Gyeonggi-do, 10802, Korea
TEL. +82-070-7507-2154

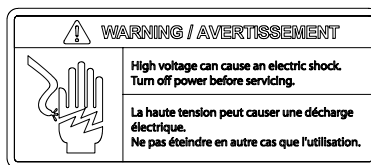


MADE IN KOREA

2-3. Warning Label Location



①



MKOM0SSH003

2ea

②



MKOM0SSH004

4ea

③



MKOM0SSH006

1ea

④



MKOM0SSH018

1ea

⑤

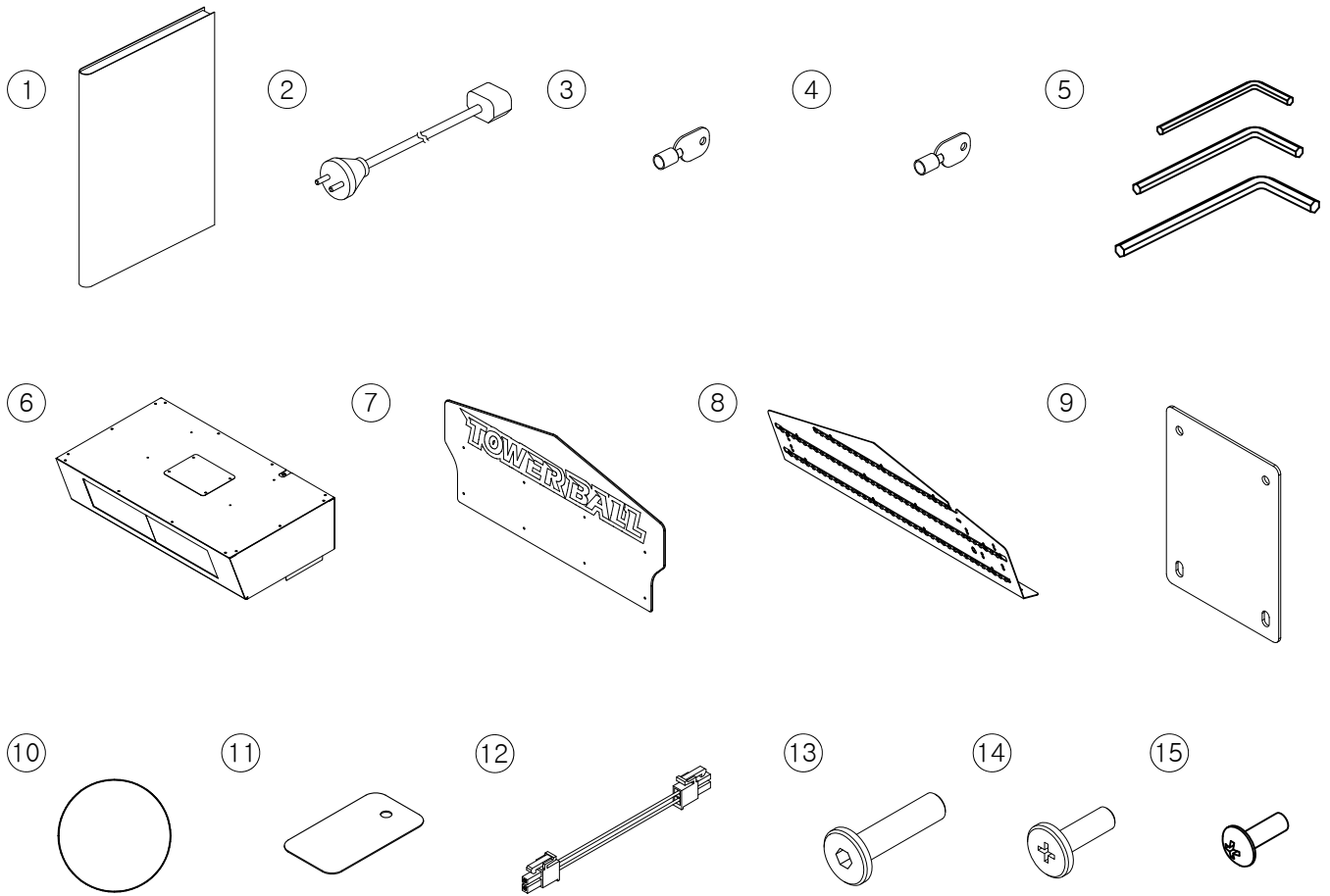


MKOM0SSH044

3.15A - 250V

1ea

3. Components

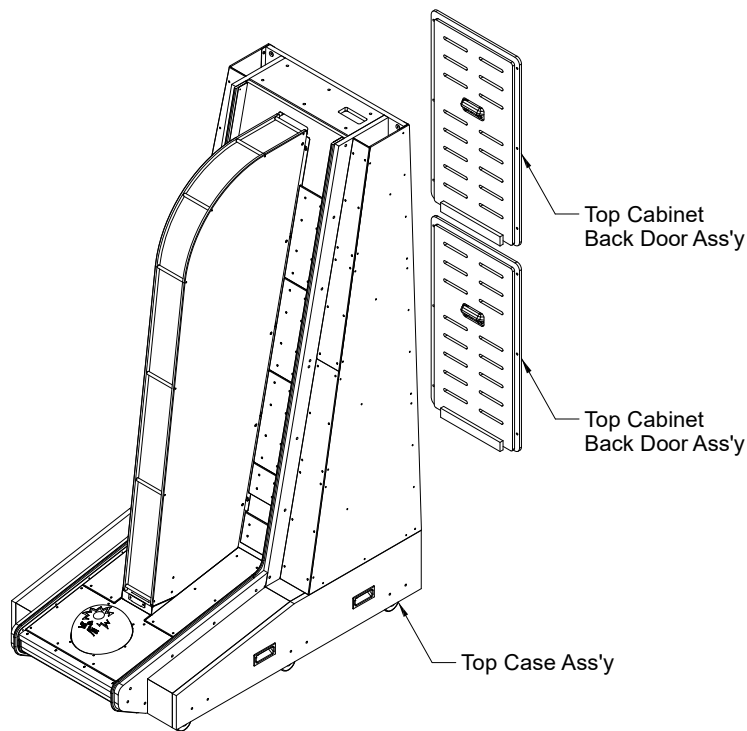


No.	Part Name	Spec.	Quantity	Code No.
1	Manual	FERRIS FANTASY	1	MTOW0MAN001
2	AC Power Cord	125V-7A (0.75)	1	MELE0ACP001
		250V-10A (0.75)		MELE0ACP008
		250V-13A (0.75) UL (BF3)		MELE0ACP006
3	Front Door Key	7001	2	MZZZ0KEY032
4	Cash Box Key	6001	2	MZZZ0KEY013
5	Wrench	2.5mm	1	MXXX0REN001
		3mm	1	MXXX0REN004
		4mm	1	MXXX0REN002
6	TOP BILLBOARD BOX Ass'y	ASSEMBLE	1	ATOW0ASM003
7	TOP BILLBOARD TITLE ACRYL	CLEAR ACRYL - 4.5t	1	ATOW0A&S001
8	TOP BILLBOARD BACK LIGHTING Ass'y	ASSEMBLE	1	ATOW0ASM001
9	CABINET FIXED BKT	SPCC-2.0t	8	MTOW0MET060
10	Φ55 BALL	WHITE COLOR	1	MULS0BAL001
11	PUSH AIR ACRYL	CLEAR PET-0.5t	2	MTOW0ACR023
12	BILLBOARD LED JUMP B	5557/5557	1	MTOW0HAR013
13	BLACK WRENCH FLAT HEAD BOLT M6 X 25L	M6 X 25L	32	-
14	FLAT HEAD BOLT M5 X 16L	M5 X 15L	6	-
15	BLACK TH M4 X 12L	M4 X 12L	13	-

4. How to Assemble

Step 1.

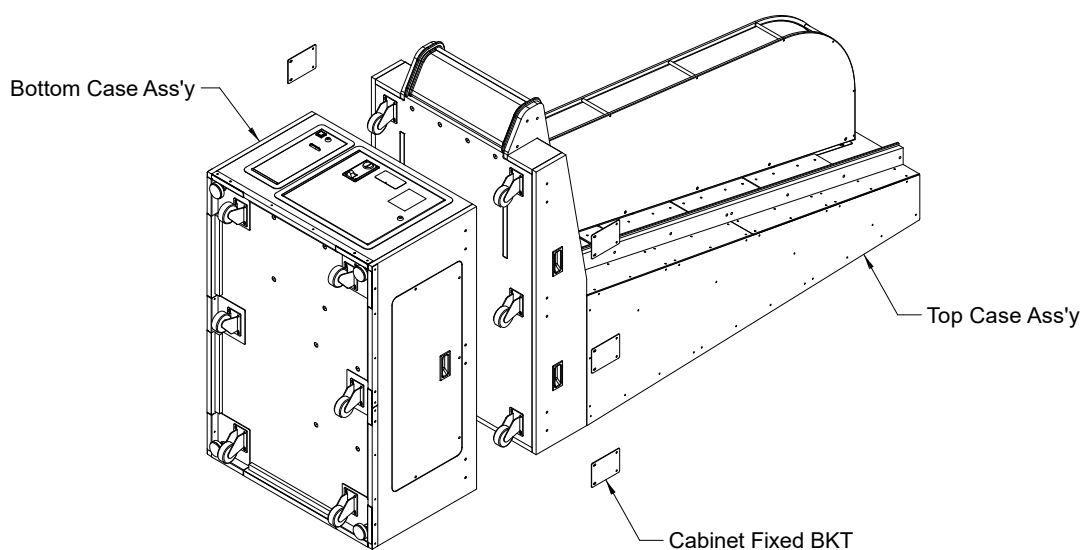
1. As shown in Figure 1-1, open the two Top Cabinet Back Door Ass'y from the main cabinet.
(Be careful not to lose the bolts after removal.)



[pic 1-1.]

Step 2.

1. As shown in Figure 2-1, lay down the Bottom Case Ass'y and Top Case Ass'y. While they are laid down, assemble 6 Cabinet Fixed Brackets using 24pcs of Black Flat Head Bolts (M6 x 25L).

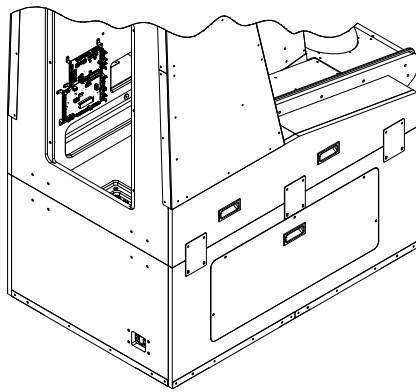


[pic 2-1.]

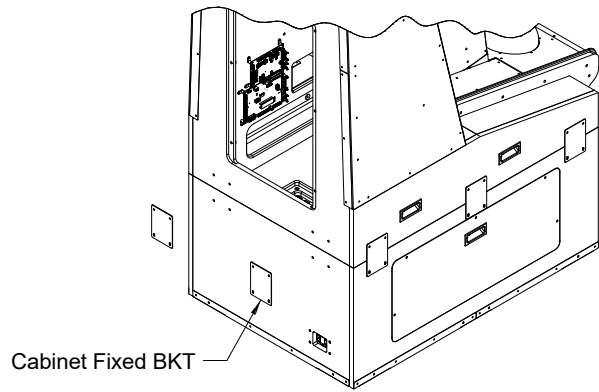
Step 3.

1. With the cabinet placed upright as show in Figure 3-1, slightly loosen the bolts of the Cabinet Fixed BKT assembled in Step 2. Align the Bottom Case Ass'y and Top Case Ass'y, then retighten the bolts.
2. As shown in Figure 3-2, assemble 2 additional Cabinet Fixed BKT on the back side of the cabinet.

⚠ Caution : When placing the cabinet upright, ensure it remains stable and dose nat fall over.
(This assembly requires at least two people.)

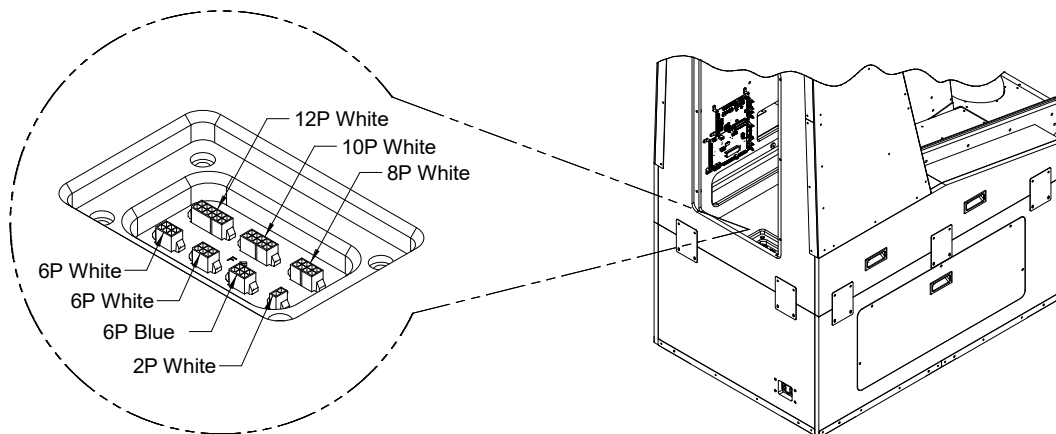


[pic 3-1.]



[pic 3-2.]

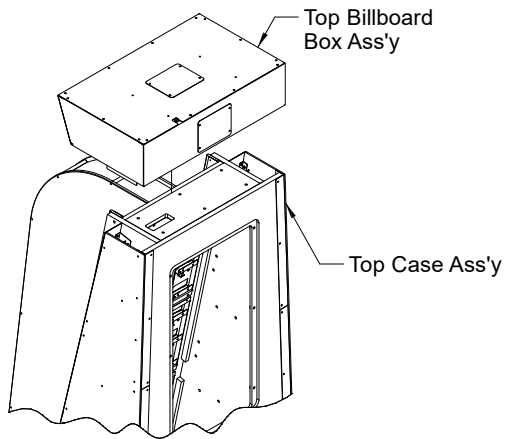
3. Connect the 7 connectors as shown in Figure 3-3. At this time, Connect the 6P blue connector to the blue color socket.



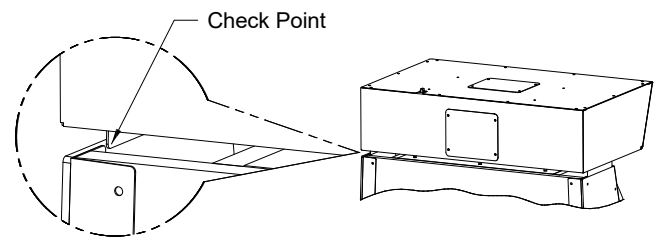
[pic 3-3.]

Step 4.

1. As shown in Figure 4-1, place the Top Billboard Box Ass'y onto the six holes on the top of the Top Case Ass'y.
(Ensure that the brackets on both sides of the Top Billboard Box Ass'y fit inside the Top Case, as shown in Figure 4-2.)
2. Secure the Top Billboard Box Ass'y to the top interior of the Top Case Ass'y using 6 Flat Head Bolts (M5 x 16L).

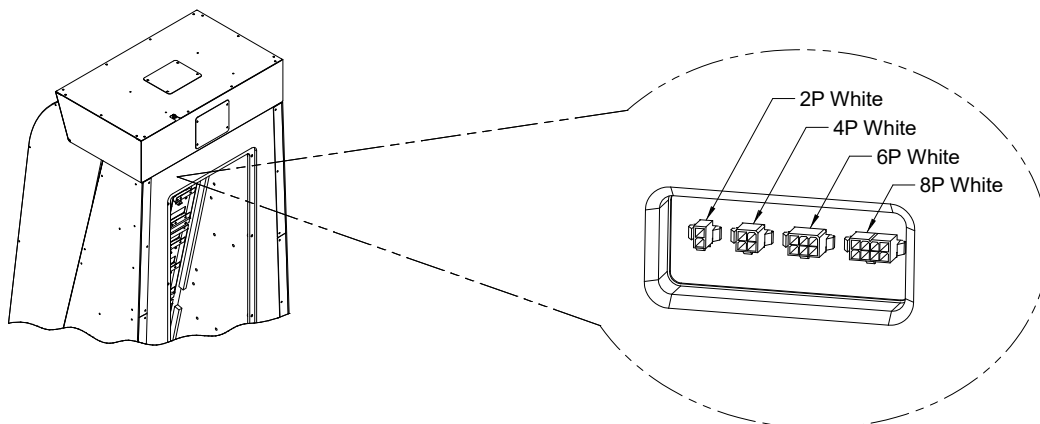


[pic 4-1.]



[pic 4-2.]

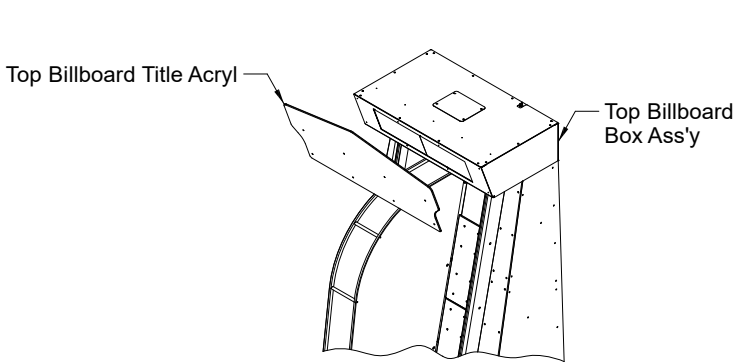
3. Connect the 4 connectors as shown in Figure 4-3.



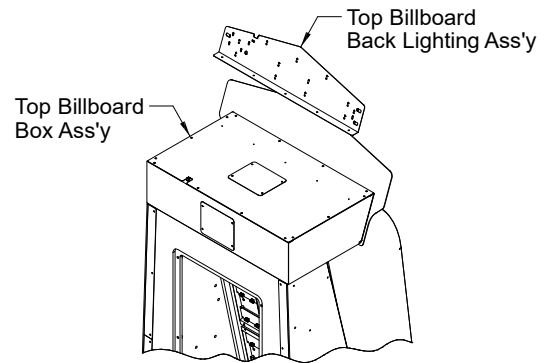
[pic 4-3.]

Step 5.

1. As shown in Figure 5-1, install the Top Billboard Title Acryl to the front of the Top Billboard Box Ass'y with 8 Black TH bolts (M4 x 12L).
2. As shown in Figure 5-2, place the Top Billboard Back Lighting Ass'y on top of the Top Billboard Box Ass'y and secure it with 5 Black TH Bolts (M4 x 12L).

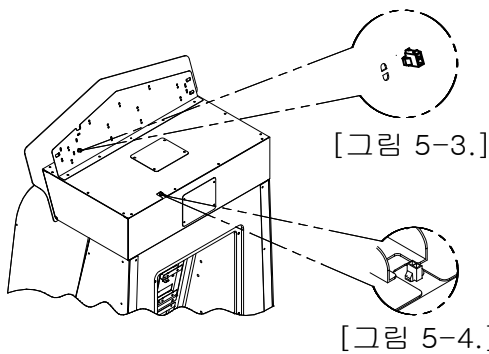


[그림 5-1.]

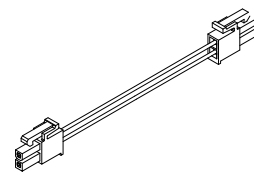


[그림 5-2.]

3. Connect the Billboard LED Jump B harness to the connector on the Top Billboard Back Lighting Ass'y (see Figure 5-3) and to the connector on the Top Billboard Box Ass'y (see Figure 5-4).



Billboard LED Jump B Harness
(MTOW0HAR013)

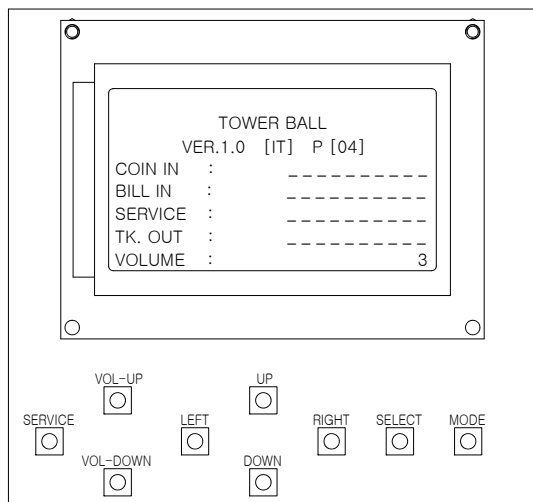


4. Close the two Top Cabinet Back Door Ass'y that were removed in Step 1.

5. Function

5-1. Description of Switch of LCD Display Board

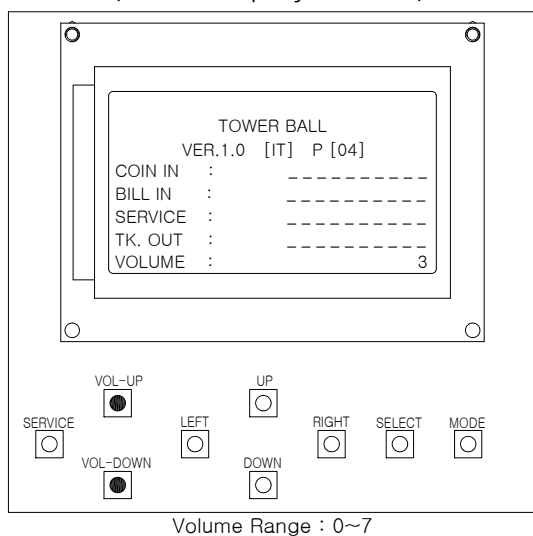
(LCD Display Board)



- 1) [Service] : Service Credit
- 2) [Vol-Up /Down] : To adjust volume.
- 3) [Up / Down] : Move items in menu [Up] Previous / Above item
[Down] Next / Below item
- 4) [Left / Right] : To Change a Setting
- 5) [Select] : Select a Menu or Mode
- 6) [Mode] : Menu Mode Enter Entering or previous steps

5-2. Sound Volume

(LCD Display Board)



5-3. Description of Dip Switch

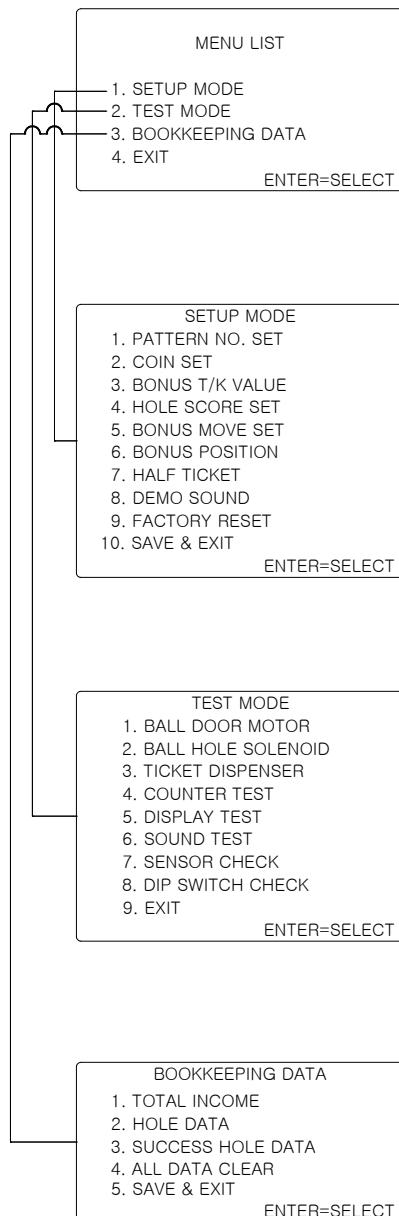
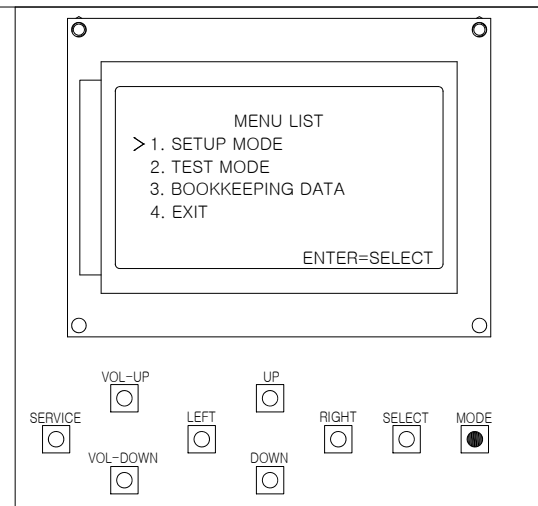
(MAIN BOARD DIP SW)



ON : Tickets Automatically Counting Mode.

6. Menu Chart

* Press the MODE button for 3 seconds to enter MENU list.
Press the Up or Down button to move in the menu and
push the SELECT button.

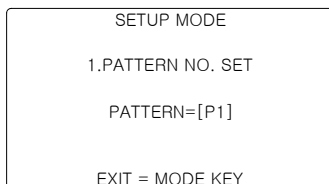
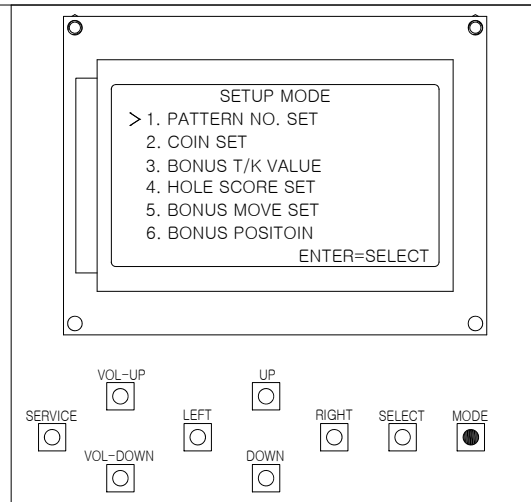


7. Setup Mode

★ This mode allows Game Setting to be modified for Operation of the Game.

7-1. How to Setup

- 1) Press Mode button for 3 sec to enter Menu List.
- 2) Press Up or Down button to move to Setup Mode and push Select Button.
- 3) Press Up or Down button to choose Setup Menu and push Select Button.
- 4) Press Mode button to return to upper menu or mode.



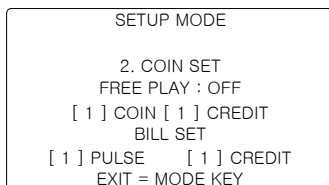
1. Pattern No. Set

Preset Game Setup Patterns (see 7-2. for detail)

Press Left / Right button to select a Pattern

Pattern : Changing Pattern No changes the Bonus / Hole Ticket values

Pattern Range : P1~P6



2. Coin Set

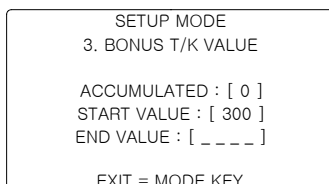
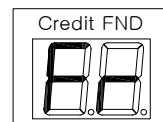
Price per play (Set the no. of Coins)

Press Up / Down button to move to,
Left / Right button to set

Coin Range : 0~20 Credit Range : 1~2 Default : 1Coin / 1Credit Unit : 1
0: Free Play Mode

Price per play (Set the no. of Bills)

Pulse Range : 1~20 Credit Range : 1~2 Default : 1Pulse / 1Credit Unit : 1



3. Bonus Ticket Value / Accumulate Bonus Value

Press Up / Down button to move to,
Left / Right button to set

Accumulated : No. of tickets accumulated per game

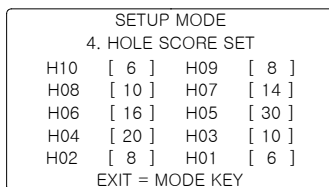
Range : 0~10 Default : 0 Unit : 1 0 : NONE

Start Value : Bonus Ticket value start value on Bonus FND

Range : 0~9,999 Unit : 1

End Value : Maximum bonus ticket value

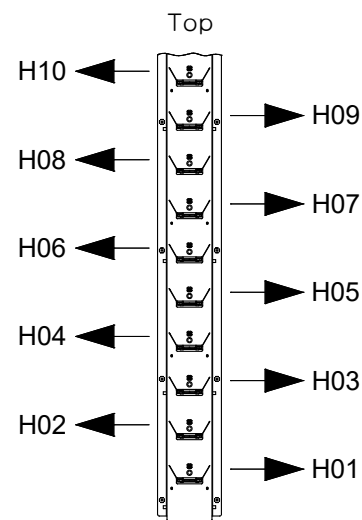
Range : 0~9,999 Unit : 1



4. Hole Score Set

Press Up / Down button to move to,
Left / Right button to set

Score Range : 1 ~ 999 Unit : 1



```

SETUP MODE

5. BONUS MOVE SET

BONUS MOVE OPTION
[ VARIABLE ]

EXIT = MODE KEY

```

```

SETUP MODE
6. BONUS POSITION
H10[ 0 ]%   H09[ 0 ]%
H08[ 10 ]%  H07[ 20 ]%
H06[ 20 ]%  H05[ 20 ]%
H04[ 20 ]%  H03[ 10 ]%
H02[ 0 ]%   H01[ 0 ]%
TOTAL [ 100 ]%

```

```

SETUP MODE

7. HALF TICKET

[ 0 ]

EXIT = MODE KEY

```

```

SETUP MODE

8. DEMO SOUND

[ 5 min ]

EXIT = MODE KEY

```

```

SETUP MODE

9. FACTORY RESET

YES      NO

```

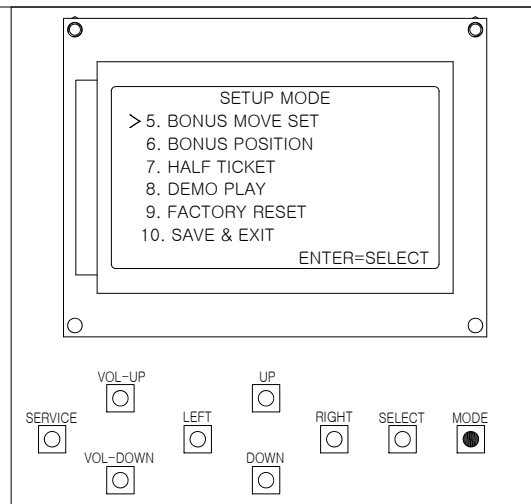
```

SETUP MODE

10. SAVE & EXIT

YES      NO

```



5. Bonus Move Set

Press Left, Right button to change.

Range : (Variable) , (After Win) , (Cont.Play)

Default : Variable

Variable : The Bonus Position Changes with each play. (H01 ~ H10)

After Win : The Bonus Position Changes once the player has won the Bonus. (H01 ~ H10)

Cont.Play : Continue Play (Bonus position is retained if a coin is inserted within 10 seconds of ball recovery.)

6. Bonus Position

Press Up / Down button to move to,

Left / Right button to set

Range : (0% ~100%)

Default : (H01 = 0%) , (H02 = 0%) , (H03 = 10%) , (H04 = 20%) , (H05 = 20%)

(H06 = 20%) , (H07 = 20%) , (H08 = 10%) , (H09 = 0%) , (H10 = 0%)

Unit : 5%

7. Half Ticket (for Paper Ticket game only)

To set the game, each paper ticket is worth two tickets

Half Ticket Options

Press Left / Right button to set (Left Button : 1 / Right Button : 0)

Range : [0] Normal , [1] Half Ticket

Default : 0

Unit : 1

8. Demo Sound

Press Left / Right button to set

Demo Sound : To set how often the attraction sound will be played.

Range : (Off) , (1 ~ 10 min) , (Always) Default : 5 min Unit : 1

9. Factory Reset

Clear the all setup value and return to Default setting.

Press Left / Right button to move and press Select Button.

10. Save & Exit

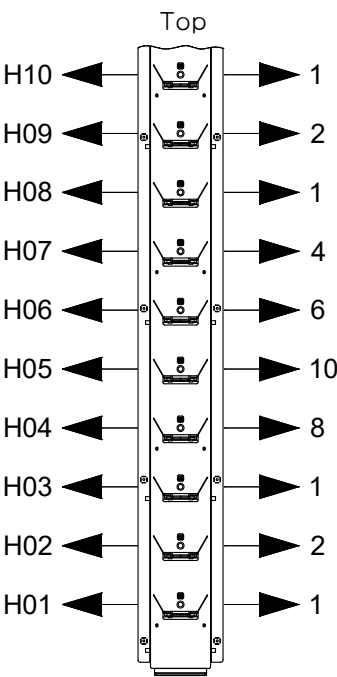
Save and Exit or Exit without saving.

Press Left / Right button to move and press Select Button.

7-2. The number of tickets for each hole

Pattern No. : P1 (CEC)

This is a guide on how to set up Tower Ball.
Please check local regulations before operating this game.



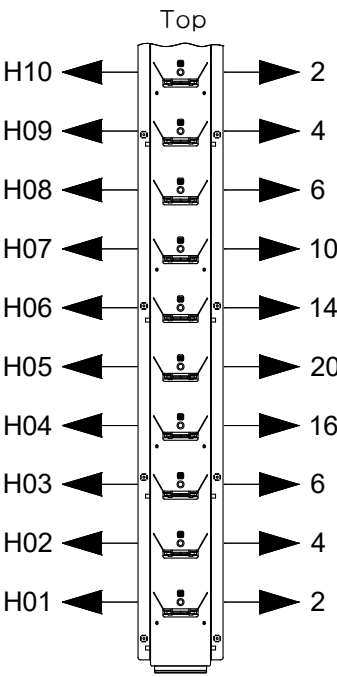
Set 'Bonus' to maximum of :

70~100

Pattern No. : P2

Price per play : \$0.5 / Ticket : 1

This is a guide on how to set up Tower Ball.
Please check local regulations before operating this game.



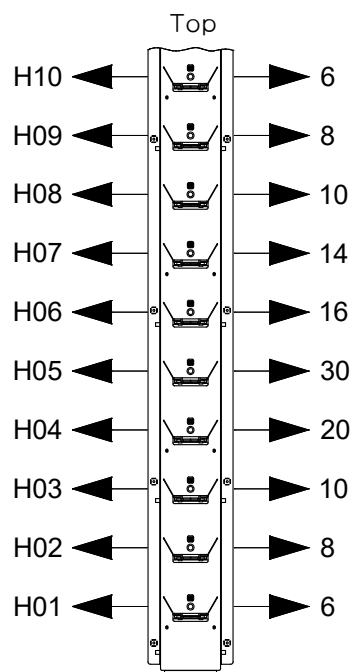
Set 'Bonus' to maximum of :

100~200

Pattern No. : P3

Price per play : \$1.0 / Ticket : 1

This is a guide on how to set up Tower Ball.
Please check local regulations before operating this game.



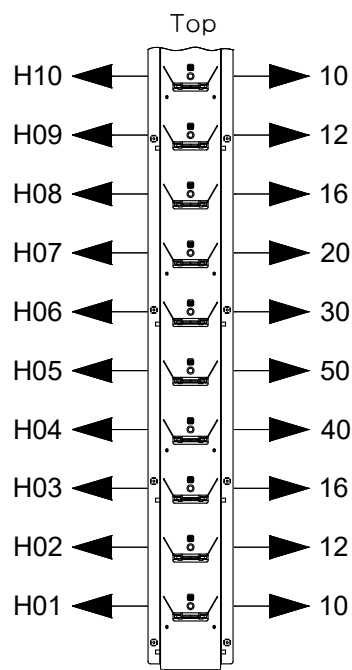
Set 'Bonus' to maximum of :

300~500

Pattern No. : P4

Price per play : \$1.5 / Ticket : 1

This is a guide on how to set up Tower Ball.
Please check local regulations before operating this game.



Set 'Bonus' to maximum of :

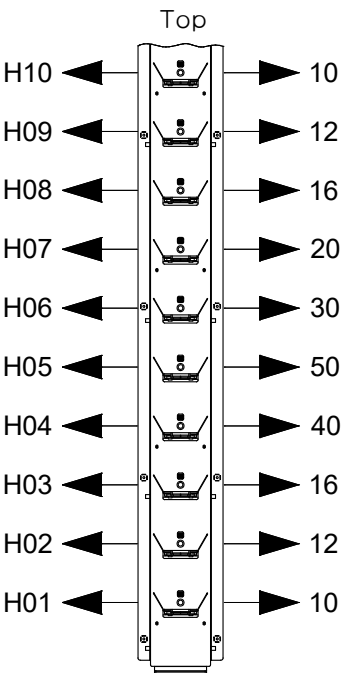
500~700

Pattern No. : P5

Price per play : \$1.75 / Ticket : 1

This is a guide on how to set up Tower Ball.

Please check local regulations before operating this game.



Set 'Bonus' to maximum of :

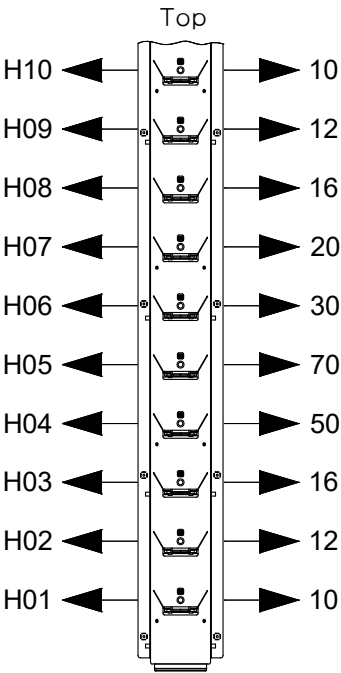
700~900

Pattern No. : P6

Price per play : \$2.0 / Ticket : 1

This is a guide on how to set up Tower Ball.

Please check local regulations before operating this game.



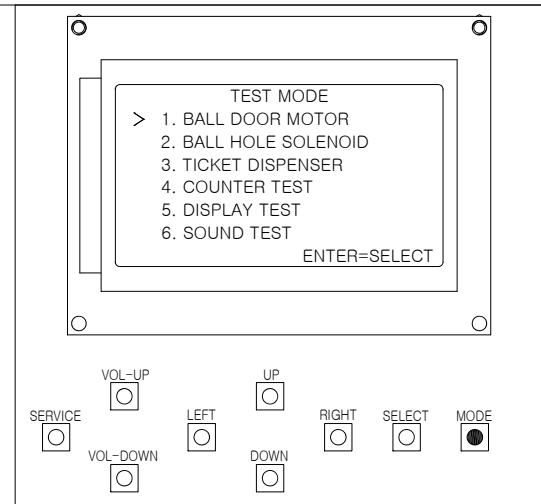
Set 'Bonus' to maximum of :

1,000~1,200

8. Test Mode

8-1. How to test

- 1) Press Mode button for 3 sec to enter Menu List.
- 2) Press Up or Down button to move to Test Mode and push Select Button.
- 3) Press Up or Down button to choose Test Mode and push Select Button.
- 4) Press Mode button to return to upper menu or mode.



TEST MODE
1. BALL DOOR MOTOR

BDCS
BDOS
BCUS
BCDS
EXIT = MODE KEY

1. Ball Door Motor Test

When holding the Left Button, it moves in the door-opening direction.
When holding the Right Button, it moves in the door-closing direction.

(Test menu blinks when the sensor detects.)

BDCS : Ball Door Closed Sensor

BDOS : Ball Door Open Sensor

BCUS : Ball Check Up Sensor

BCDS : Ball Check Down Sensor

Ball Door Motor does not operate while Ball Check Down Sensor detects the ball.

TEST MODE
2. BALL HOLE SOLENOID

H10 [S]	H09 [S]
H08 [S]	H07 [S]
H06 [S]	H05 [S]
H04 [S]	H03 [S]
H02 [S]	H01 [S]

EXIT = MODE KEY

2. Ball Hole Solenoid Test

Move to manu whit Up/Down Buttons, then press Select Button to activate the hole's solenoid.

S : Solenoid

TEST MODE
3. TICKET DISPENSER

TICKET SENSOR
TICKET SWITCH
EXIT = MODE KEY

3. Ticket Dispenser Test

Ticket Dispenser runs one time whenever "Ticket Switch" is pressed.

Ticket Sensor : It blinks when Ticket Out Sensor of the Ticket Dispenser detects.

Ticket Switch : It blinks when the empty button of Ticket Box Ass'y is being pressed.

TEST MODE
4. COUNTER TEST

COIN
TICKET
EXIT = MODE KEY

4. Counter Test

Press Up button to test Coin Counter.

Press Down button to test Ticket Counter.

(Test menu blinks when it is tested.)

TEST MODE
5. DISPLAY TEST

DISPLAY TEST
EXIT = MODE KEY

5. Display Test

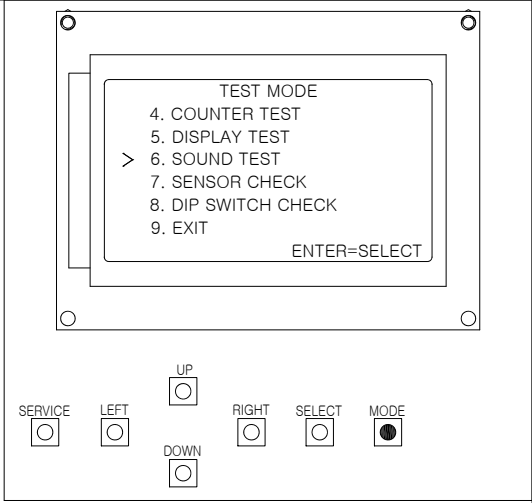
It starts LED Display Test right after pressing SELECT button to enter the menu.

TEST MODE
6. SOUND TEST
SOUND NO [00]
SOUND VOL: 3
EXIT = MODE KEY

TEST MODE
7. SENSOR CHECK
BDOS BDCS BCUS BCDS
H1H2 H3H4 H5H6 H7H8
H9H10
C1C2 TKES BILL
EXIT = MODE KEY

TEST MODE
8. DIP SWITCH CHECK
0 0 0 0 0 0 0
EXIT = MODE KEY

TEST MODE
9. EXIT



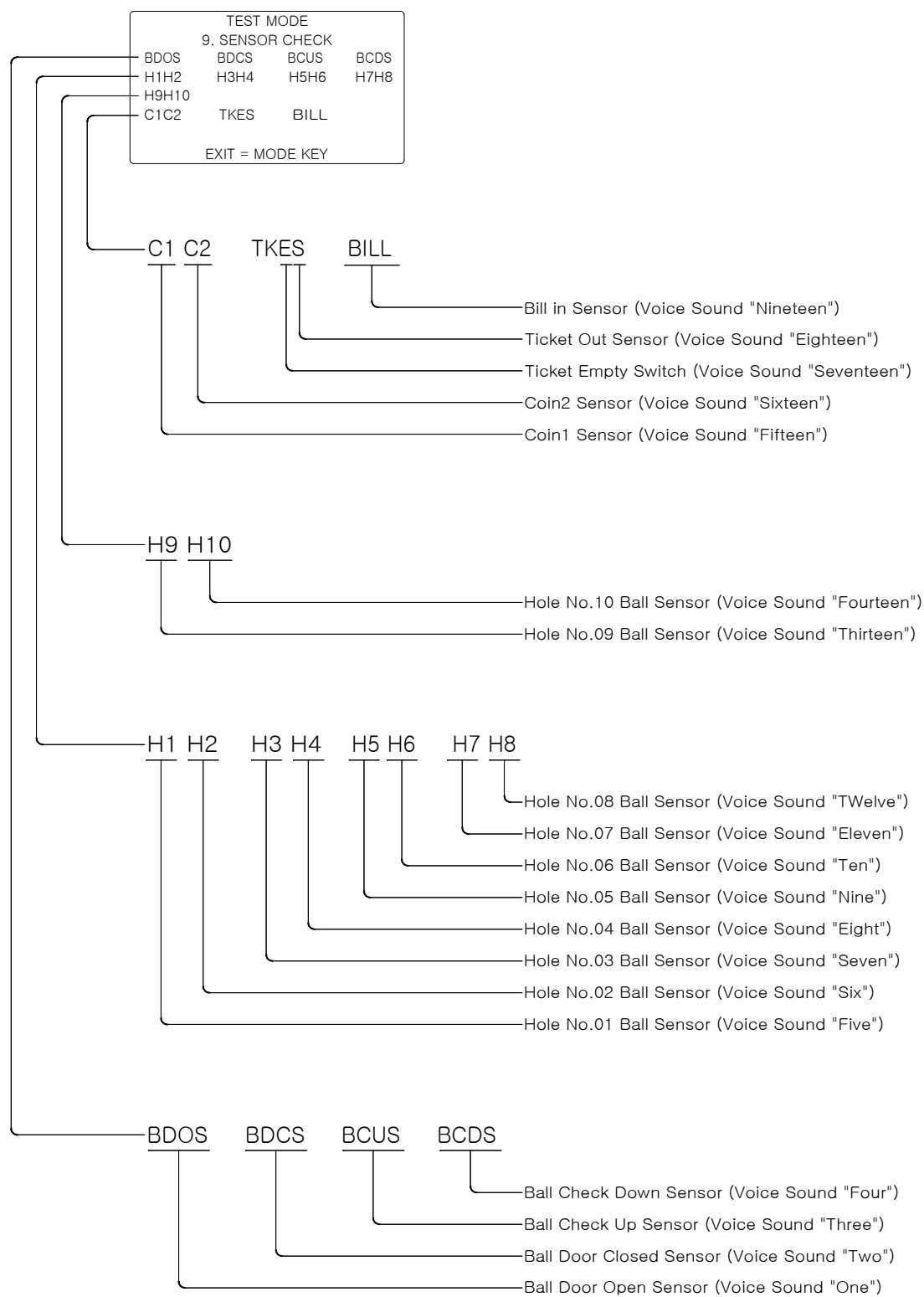
6. Sound Test
Press Left Button or Right Button to move to Sound menu and play the sound.

7. Sensor Check
Test operate status of the Sensors (Refer to 8-2)

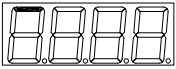
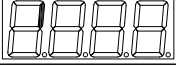
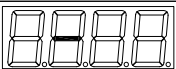
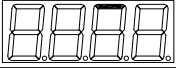
8. Dip Switch Check
Test operation status of the DIP Switches on the main board.
On = "0" Off = "1"

9. Exit Test Mode.

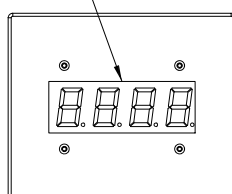
8-2. Check the Status of Sensors and Switches



8-2. Check the Status of Sensors and Switches

No.	Content	Voice Sound	TICKET OWED FND
1	Ball Door Open Sensor	One	
2	Ball Door Closed Sensor	Two	
3	Ball Check Up Sensor	Three	
4	Ball Check Down Sensor	Four	
5	Hole No.01 Ball Sensor	Five	
6	Hole No.02 Ball Sensor	Six	
7	Hole No.03 Ball Sensor	Seven	
8	Hole No.04 Ball Sensor	Eight	
9	Hole No.05 Ball Sensor	Nine	
10	Hole No.06 Ball Sensor	Ten	
11	Hole No.07 Ball Sensor	Eleven	
12	Hole No.08 Ball Sensor	Twelve	
13	Hole No.09 Ball Sensor	Thirteen	
14	Hole No.10 Ball Sensor	Fourteen	
15	Coin1 Sensor	Fifteen	
16	Coin2 Sensor	Sixteen	
17	Ticket Empty Switch	Seventeen	
18	Ticket Out Sensor	Eighteen	
19	Bill Sensor	Nineteen	

TICKET OWED FND



9. Bookkeeping Data

- 1) Press MODE button for 3 sec to enter Menu List.
- 2) Press Up or Down button to move to Bookkeeping Data and push SELECT Button.
- 3) Press Up or Down button to choose the Menu and push SELECT Button.
- 4) Press MODE button to return to upper menu or mode.

BOOKKEEPING DATA	
1. TOTAL INCOME	
COIN IN	[_ _ _ _ _]
BILL IN	[_ _ _ _ _]
SERVICE	[_ _ _ _ _]
TICKETK	[_ _ _ _ _]
BS T.K	[_ _ _ _ _]
BONUS	[_ _ _ _ _]

BOOKKEEPING DATA	
2. HOLE DATA	
H01 [_ _ _ _]	H02 [_ _ _ _]
H03 [_ _ _ _]	H04 [_ _ _ _]
H05 [_ _ _ _]	H06 [_ _ _ _]
H07 [_ _ _ _]	H08 [_ _ _ _]
H09 [_ _ _ _]	H10 [_ _ _ _]

BOOKKEEPING DATA	
3. SUCCESS HOLE DATA	
H01 [_ _ _ _]	OF [_ _ _ _]
H02 [_ _ _ _]	OF [_ _ _ _]
H03 [_ _ _ _]	OF [_ _ _ _]
H04 [_ _ _ _]	OF [_ _ _ _]
H05 [_ _ _ _]	OF [_ _ _ _]
UP ▲ DOWN ▼	

BOOKKEEPING DATA	
4. ALL DATA CLEAR	
YES	NO

BOOKKEEPING DATA	
5. SAVE & EXIT	
YES	NO

1. TOTAL INCOME

Coin in : Total coin accumulated income
 Bill in : Total accumulated bill acceptor pulse counter
 Service : Total service credit
 Ticket : Total tickets dispensed, including Bonus and Super Bonus tickets.
 BS T.K : The of tickets dispensed for Bonus
 Bonus : Number of Bonus wins

2. Hole Data

Number of balls in each hole.

3. Success Hole Data

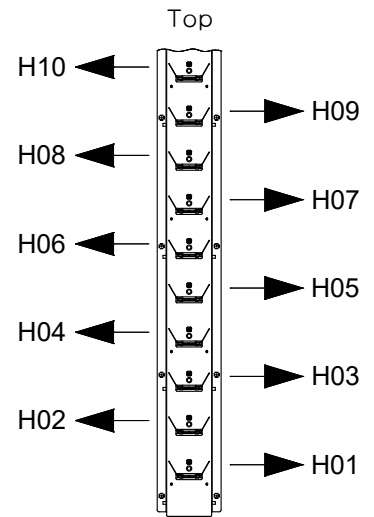
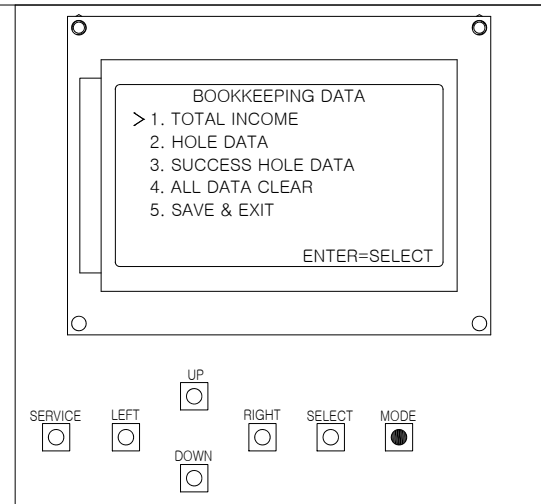
Press Up / Down button to move.
 Number of times each hole is set as Bonus Hole and win-bonus count.
 Press Down Button to view up to Hole 10.

4. All Data Clear

Clear the all bookkeeping data.
 Press Left / Right button to move to and push SELECT Button.

5. Save & Exit

Save and Exit or Exit without saving.
 Press Left / Right button to move to and push SELECT Button.



10. Errors

Ticket OWED FND



— Ball Door Open Sensor or Ball Door Closed Sensor malfunction, or Ball Door Motor fails to operate.



— Ball Door Motor operates, but Ball Check Up Sensor continues to detect the ball.



— Ball Door Motor operates, but Ball Check Down Sensor does not detect the ball.



— Hole No. 01 Solenoid fails to activate or the sensor continuously detects the ball.



— Hole No. 02 Solenoid fails to activate or the sensor continuously detects the ball.



— Hole No. 03 Solenoid fails to activate or the sensor continuously detects the ball.



— Hole No. 04 Solenoid fails to activate or the sensor continuously detects the ball.



— Hole No. 05 Solenoid fails to activate or the sensor continuously detects the ball.



— Hole No. 06 Solenoid fails to activate or the sensor continuously detects the ball.



— Hole No. 07 Solenoid fails to activate or the sensor continuously detects the ball.



— Hole No. 08 Solenoid fails to activate or the sensor continuously detects the ball.



— Hole No. 09 Solenoid fails to activate or the sensor continuously detects the ball.



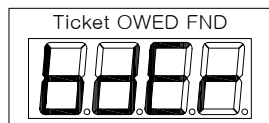
— Hole No. 10 Solenoid fails to activate or the sensor continuously detects the ball.



— Ball is not detected by Ball Check Up Sensor, Ball Check Down Sensor, or any Hole No. 1~10 Sensors.

11. Trouble Shooting

11-1. Error Code

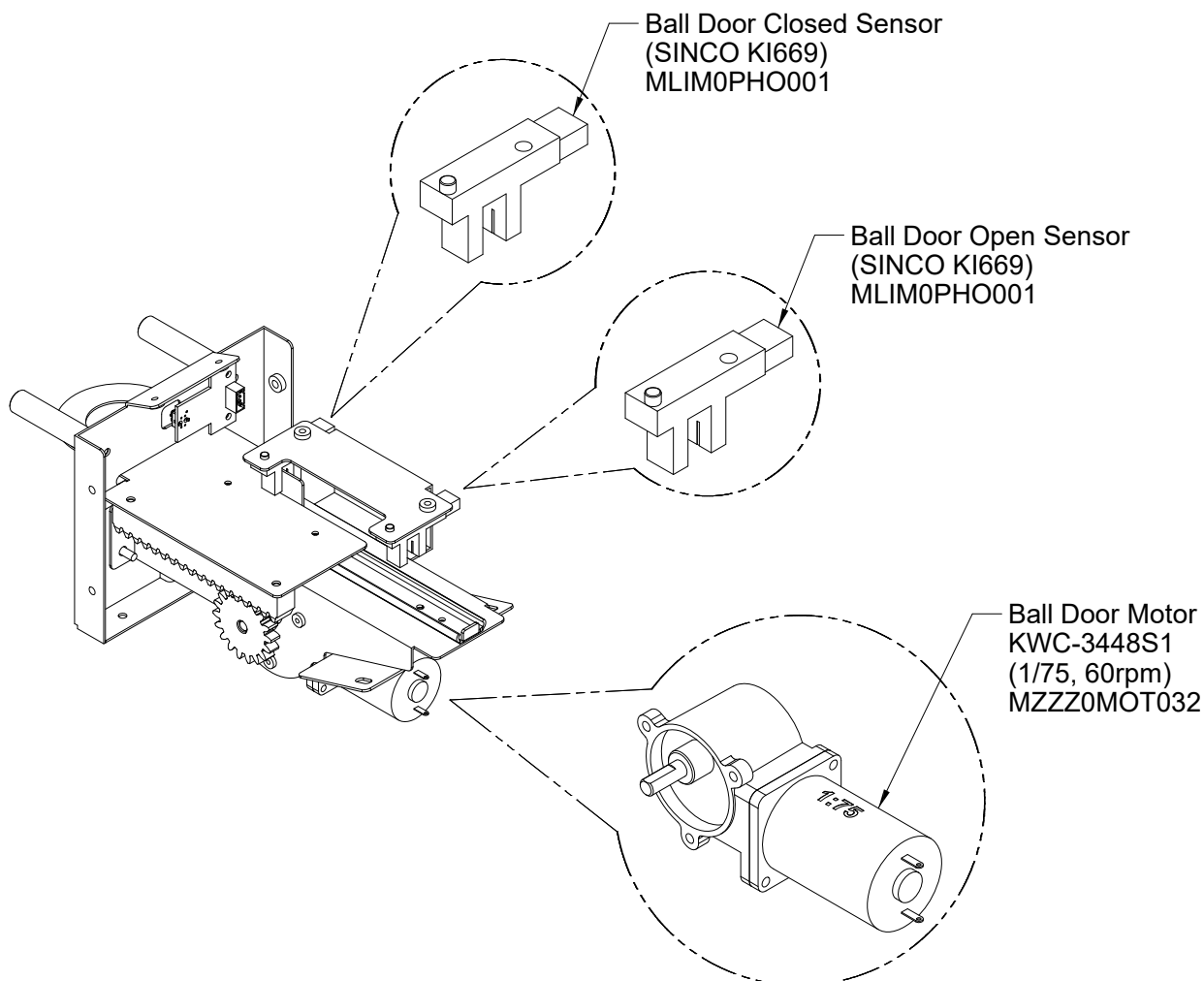
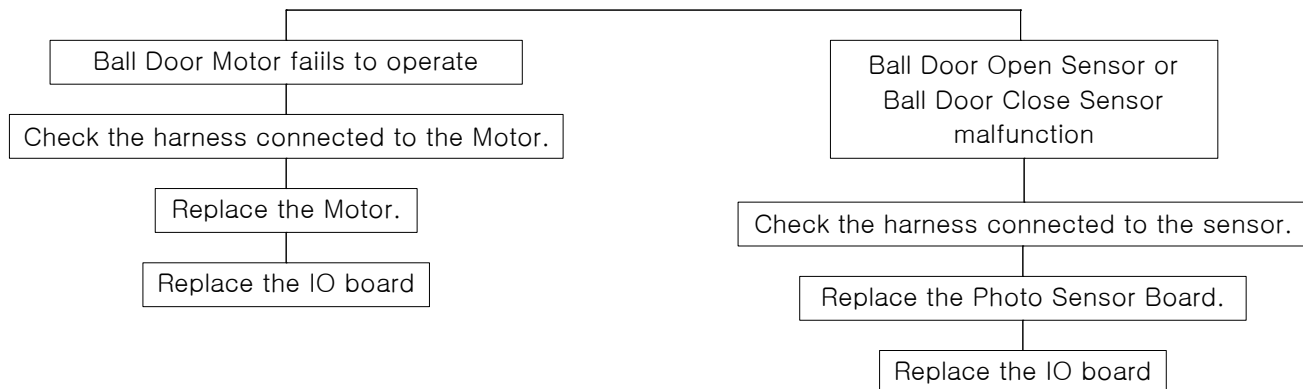


BDCS : Ball Door Closed Sensor
BDOS : Ball Door Open Sensor

TEST MODE
1. BALL DOOR MOTOR

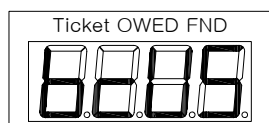
BDCS
BDOS
BCUS
BCDS
EXIT = MODE KEY

- Ball Door Open Sensor or Ball Door Closed Sensor malfunction, or Ball Door Motor fails to operate.



Reference : Ball Shoot Door Ass'y

11-2. Error Code

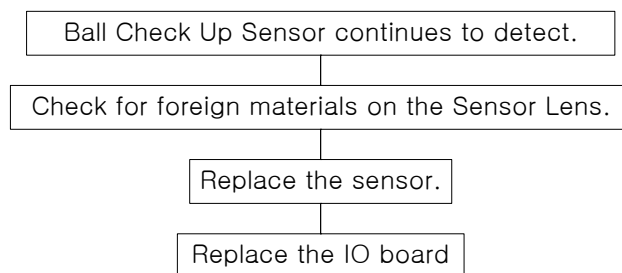


BCUS : Ball Check Up Sensor →

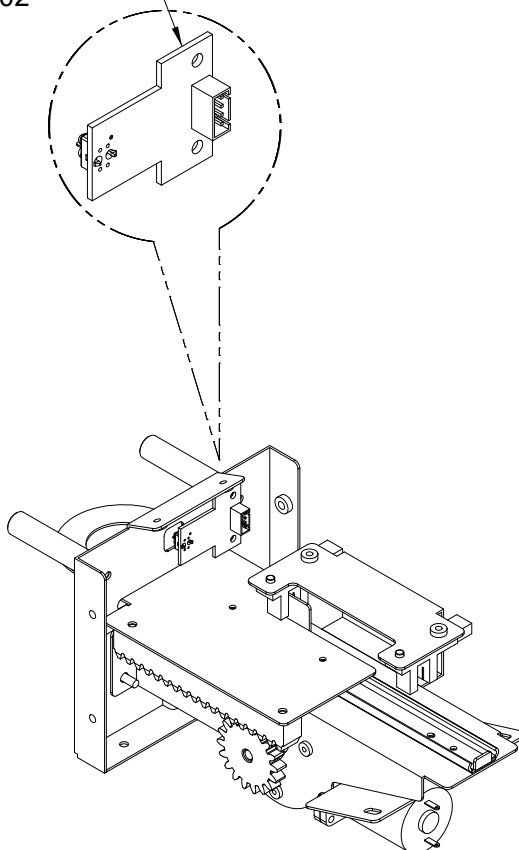
TEST MODE
1. BALL DOOR MOTOR

BDCS
BDOS
BCUS
BCDS
EXIT = MODE KEY

- Ball Door Motor operates, but Ball Check Up Sensor continues to detect the ball.

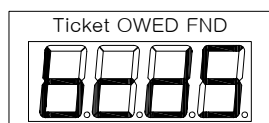


Ball Check Up Sensor
KMSEN-2504-129B
ATWB0BOA002



Reference : Ball Shoot Door Ass'y

11-3. Error Code

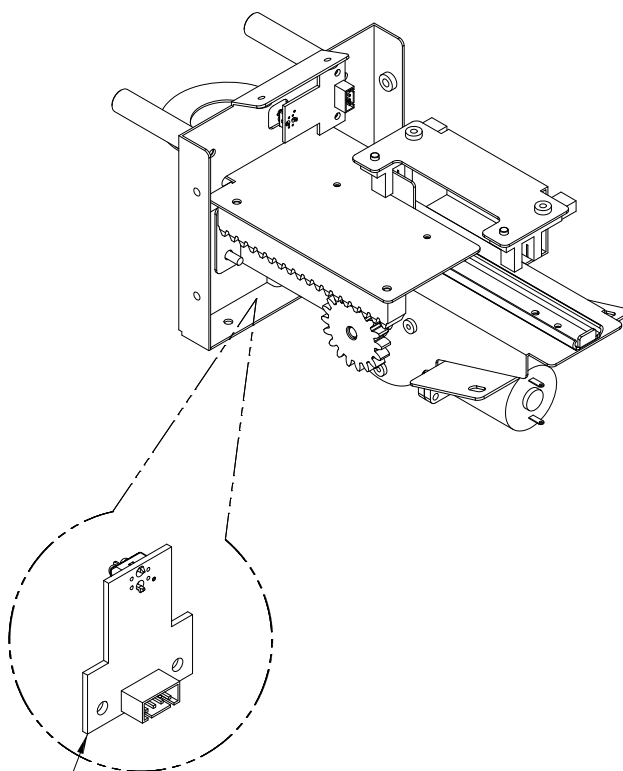
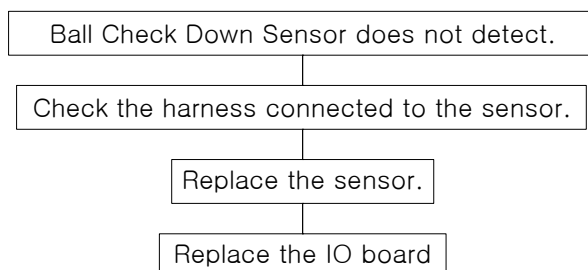


BCDS : Ball Check Down Sensor →

TEST MODE
1. BALL DOOR MOTOR

BDCS
BDOS
BCUS
BCDS
EXIT = MODE KEY

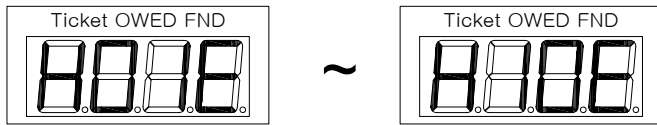
- Ball Door Motor operates, but Ball Check Down Sensor does not detect the ball.



Ball Check Down Sensor
KMSEN-2504-129B
ATWB0BOA002

Reference : Ball Shoot Door Ass'y

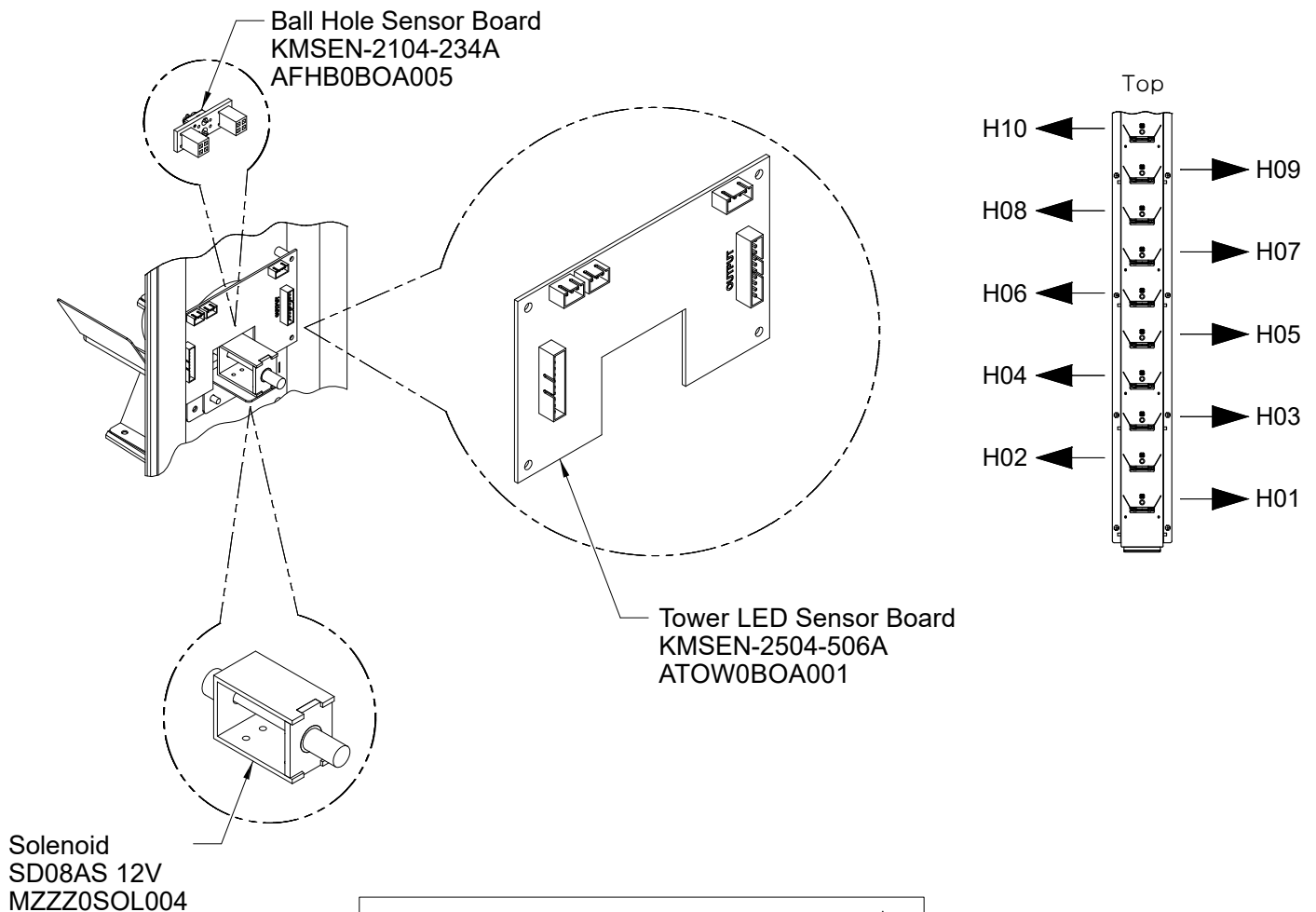
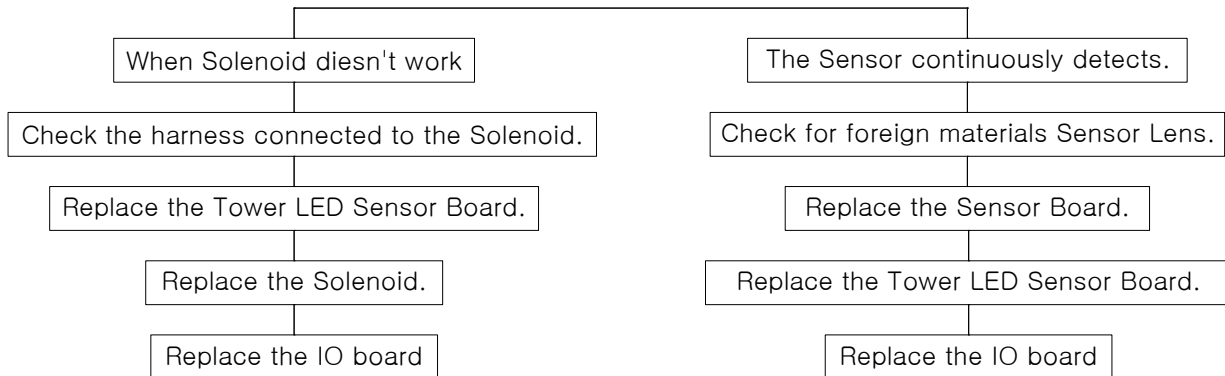
11-4. Error Code



- Hole No. 01 Solenoid fails to activate or the sensor continuously detects the ball.

TEST MODE			
2. BALL HOLE SOLENOID			
H01 [S]		H02 [S]	
H03 [S]		H04 [S]	
H05 [S]		H06 [S]	
H07 [S]		H08 [S]	
H09 [S]		H10 [S]	
EXIT = MODE KEY			

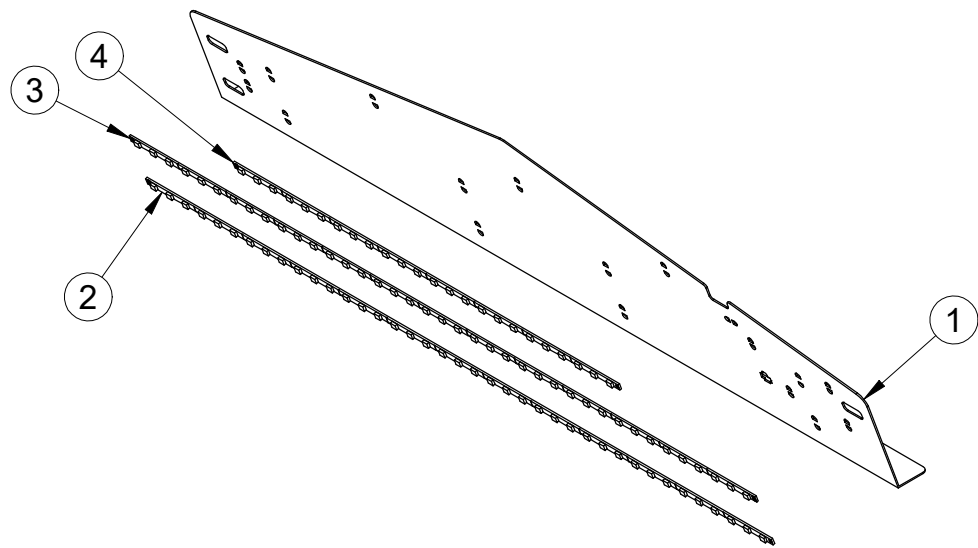
TEST MODE			
7. SENSOR CHECK			
BD0S	BDCS	BCUS	BCDS
H1H2	H3H4	H5H6	H7H8
H9H10			
C1C2	TKES	BILL	
EXIT = MODE KEY			



12.ASSEMBLING TOWER BALL

12-1.TOP BILLBOARD BACK LIGHTING Ass'y

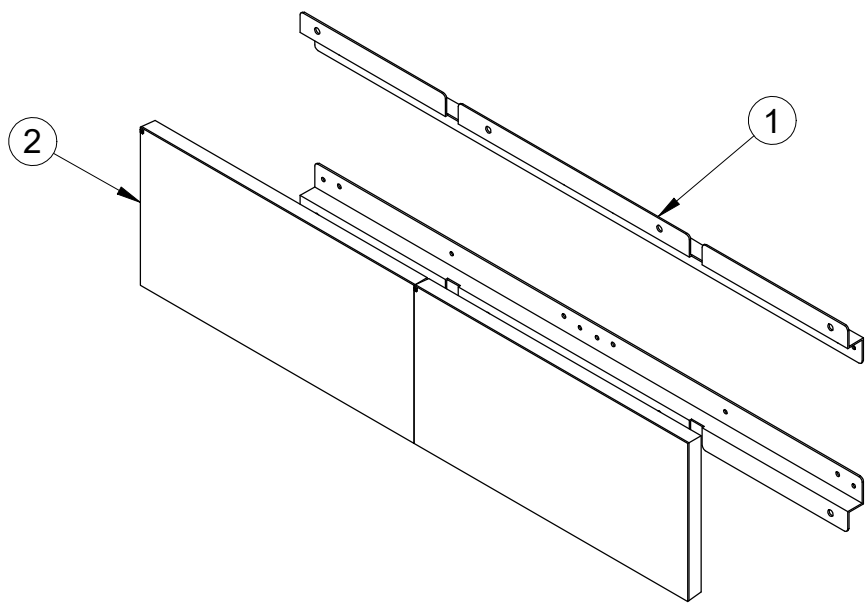
ATOW0ASM001



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET009	1	TOP BILLBOARD LED FIXED BKT	SPCC-1.2t
2	ATOW0LBA001	1	TOW LED BAR 650mm-A	150-5559 / 120-35184
3	ATOW0LBA002	1	TOW LED BAR 650mm-B	120-35155 / 120-35184
4	ATOW0LBA004	1	TOW LED BAR 400mm-B	120-35155

12-2.DOT MATRIX Ass'y

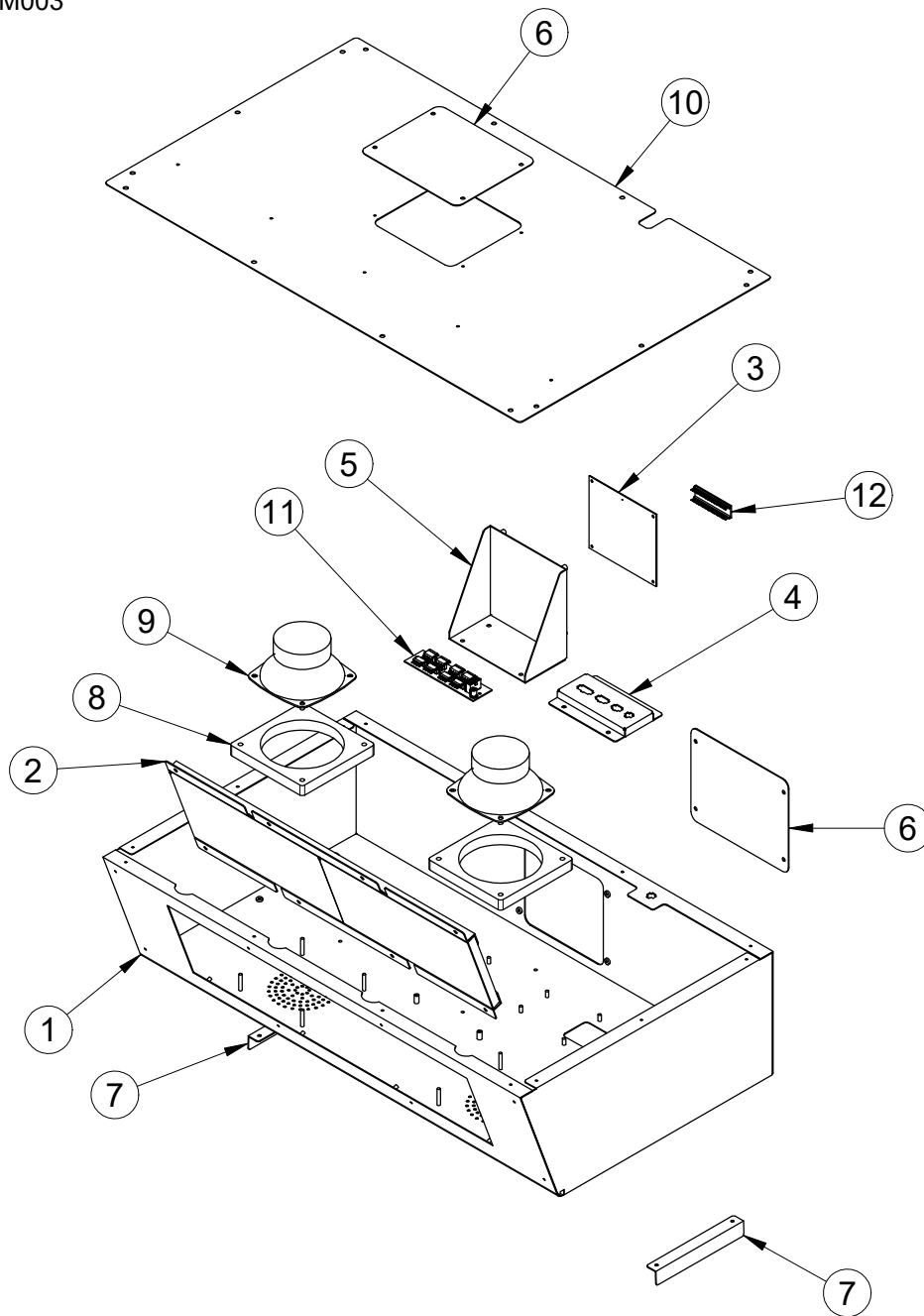
ATOW0ASM002



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET003	2	MATRIX FIXED BKT	SPCC-1.2t
2	MASD0DOM001	2	DOT MATRIX	P4-2121-A5.1

12-3.TOP BILLBOARD BOX Ass'y

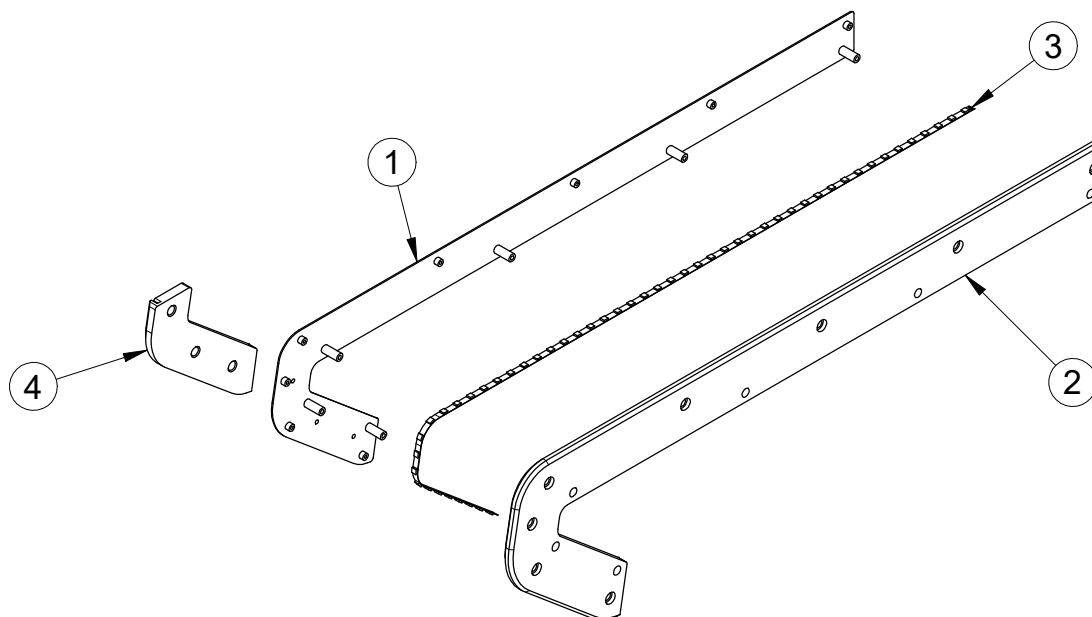
ATOW0ASM003



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET001	1	TOP BILLBOARD BOX BKT	SPCC-1.2t
2	ATOW0ASM002	1	DOT MATRIX Ass'y	12-2 (19 page)
3	AASD0BOA002	1	DOT MATRIX IO BOARD	KMIO-2308-236A
4	MTOW0MET005	1	CONNECTOR BKT-2,4,6P	SPCC-1.2t
5	MTOW0MET008	1	MATRIX IO BOARD FIXED BKT	GI-1.2t
6	MTOW0MET004	2	TOP BILLBOARD BOX BACK COVER BKT	SPCC-1.2t
7	MTOW0MET006	2	TOP BILLBOARD SIDE GUIDE BKT	SPCC-1.2t
8	MTOW0WOO005	2	SPEAKER PANEL	PW-15.0t
9	MZZZ0SPE004	2	SPEAKER [MID4.5]	MID 4.5 8Ω80W
10	MTOW0MET002	1	TOP BILLBOARD BOX COVER BKT	SPCC-1.2t
11	AASD0BOA004	1	D-M DC POWER DIVISION BOARD	KMIO-2310-239A
12	ATOW0BOA007	1	TOWER BALL DOT MATRIX ROM BOARD	KMMM100808A

12-4.TOP CABINET LOWER SIDE DECO ACRYL-R Ass'y

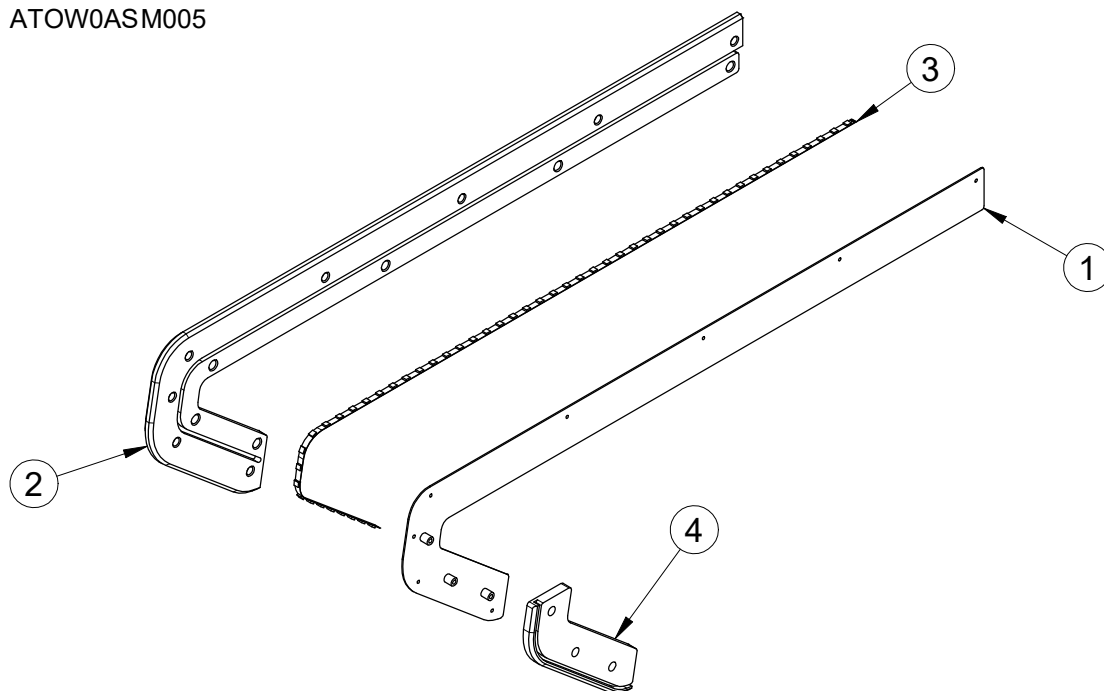
ATOW0ASM004



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET028	1	TOP CABINET LOWER SIDE DECO COVER BKT-R	SPCC-1.2t
2	MTOW0ACR013	1	TOP CABINET LOWER SIDE DECO ACRYL-R	WHITE LIGHT ACRYL-10.0t(백색스리아크릴)
3	ATOW0FLM002	1	TOW FL06-S-16.6-866.6L-52LED-A	500-35155
4	MTOW0ACR011	1	TOP CABINET FRONT COVER GUIDE ACRYL-R	CLEAR ACRYL - 10.0t(투명 압출판 아크릴)

12-5.TOP CABINET LOWER SIDE DECO ACRYL-L Ass'y

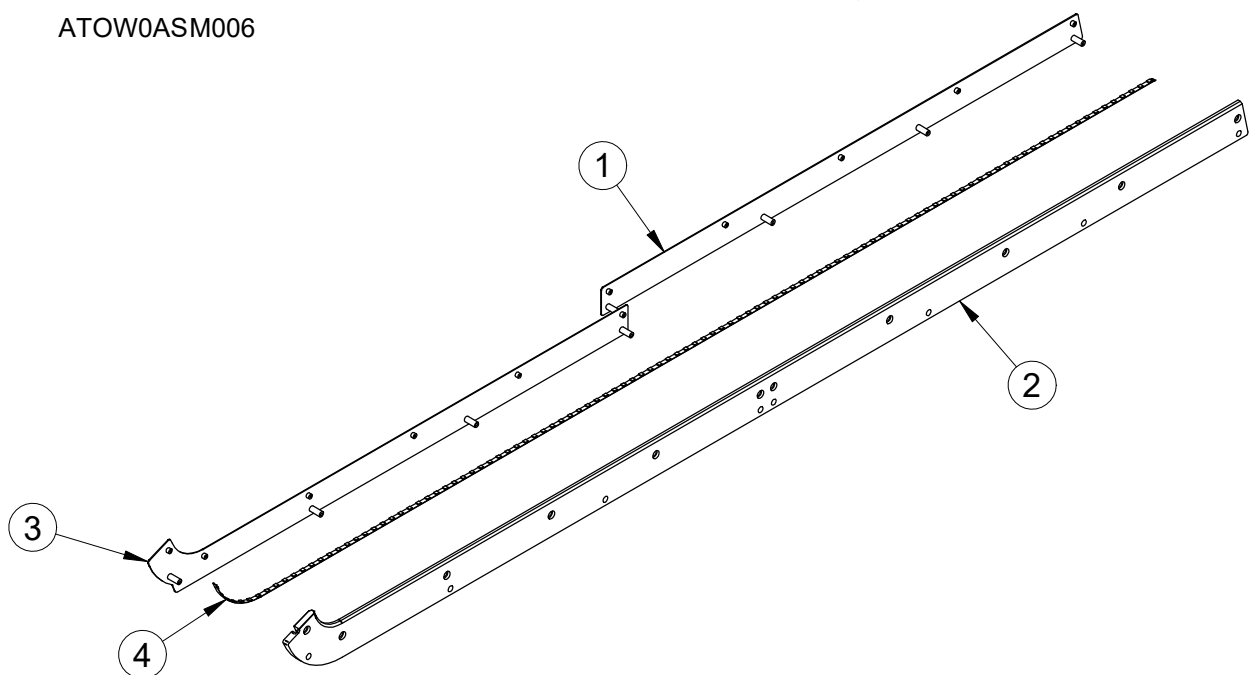
ATOW0ASM005



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET029	1	TOP CABINET LOWER SIDE DECO COVER BKT-L	SPCC-1.2t
2	MTOW0ACR014	1	TOP CABINET LOWER SIDE DECO ACRYL-L	WHITE LIGHT ACRYL-10.0t(백색스리아크릴)
3	ATOW0FLM002	1	TOW FL06-S-16.6-866.6L-52LED-A	500-35155
4	MTOW0ACR012	1	TOP CABINET FRONT COVER GUIDE ACRYL-L	CLEAR ACRYL - 10.0t(투명 압출판 아크릴)

12-6.TOP CABINET TOP SIDE DECO ACRYL-R Ass'y

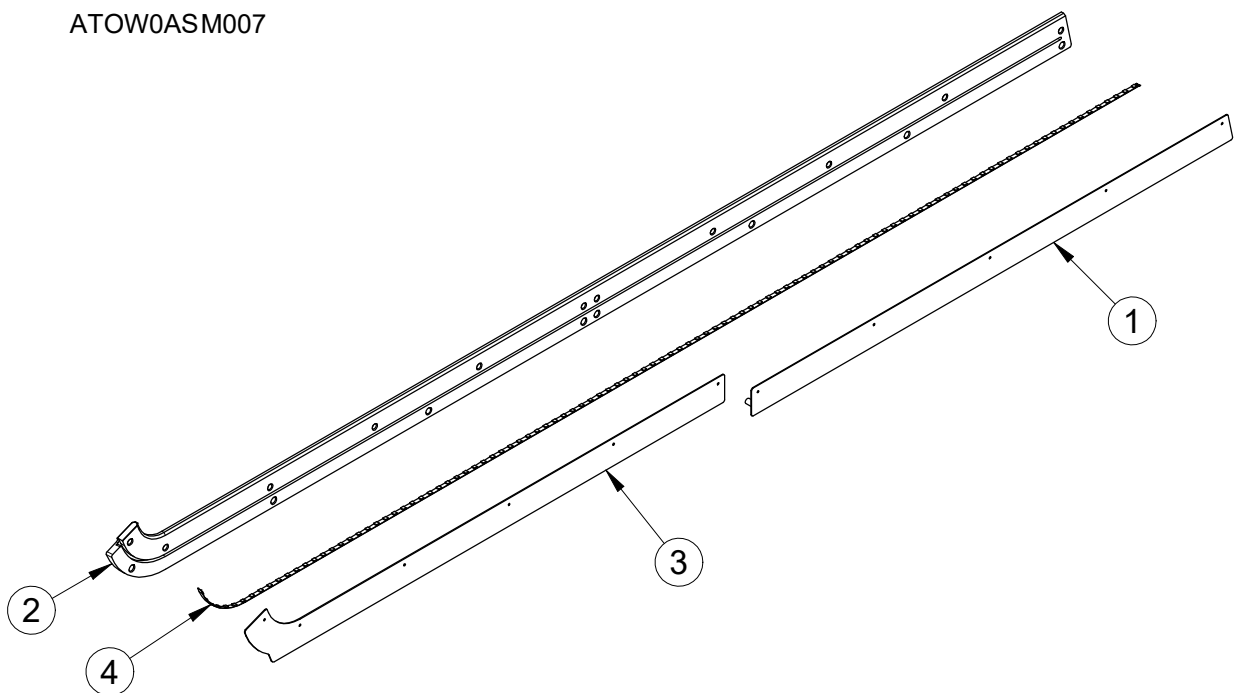
ATOW0ASM006



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET032	1	TOP CABINET TOP SIDE DECO COVER BKT-R	SPCC-1.2t
2	MTOW0ACR015	1	TOP CABINET TOP SIDE DECO ACRYL-R	WHITE LIGHT ACRYL-10.0t(백색스리아크릴)
3	MTOW0MET030	1	TOP CABINET MIDDLE SIDE DECO COVER BKT-R	SPCC-1.2t
4	ATOW0FLM001	1	TOW FL06-S-16.6-1783.2L-107LED-A	500-35155

12-7.TOP CABINET TOP SIDE DECO ACRYL-L Ass'y

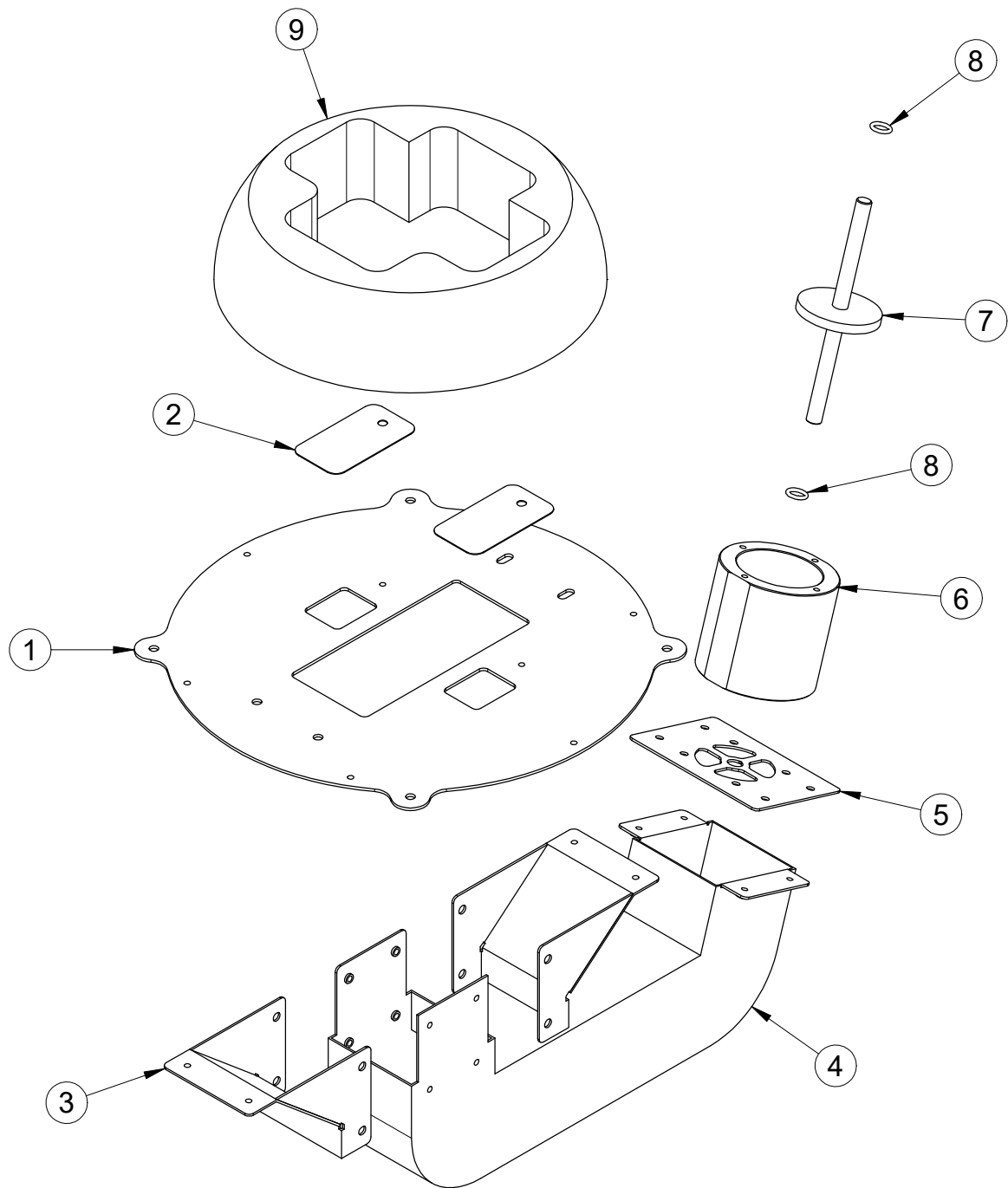
ATOW0ASM007



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET033	1	TOP CABINET TOP SIDE DECO COVER BKT-L	SPCC-1.2t
2	MTOW0ACR016	1	TOP CABINET TOP SIDE DECO ACRYL-L	WHITE LIGHT ACRYL-10.0t(백색스리아크릴)
3	MTOW0MET031	1	TOP CABINET MIDDLE SIDE DECO COVER BKT-L	SPCC-1.2t
4	ATOW0FLM001	1	TOW FL06-S-16.6-1783.2L-107LED-A	500-35155

12-8.PUSHER Ass'y

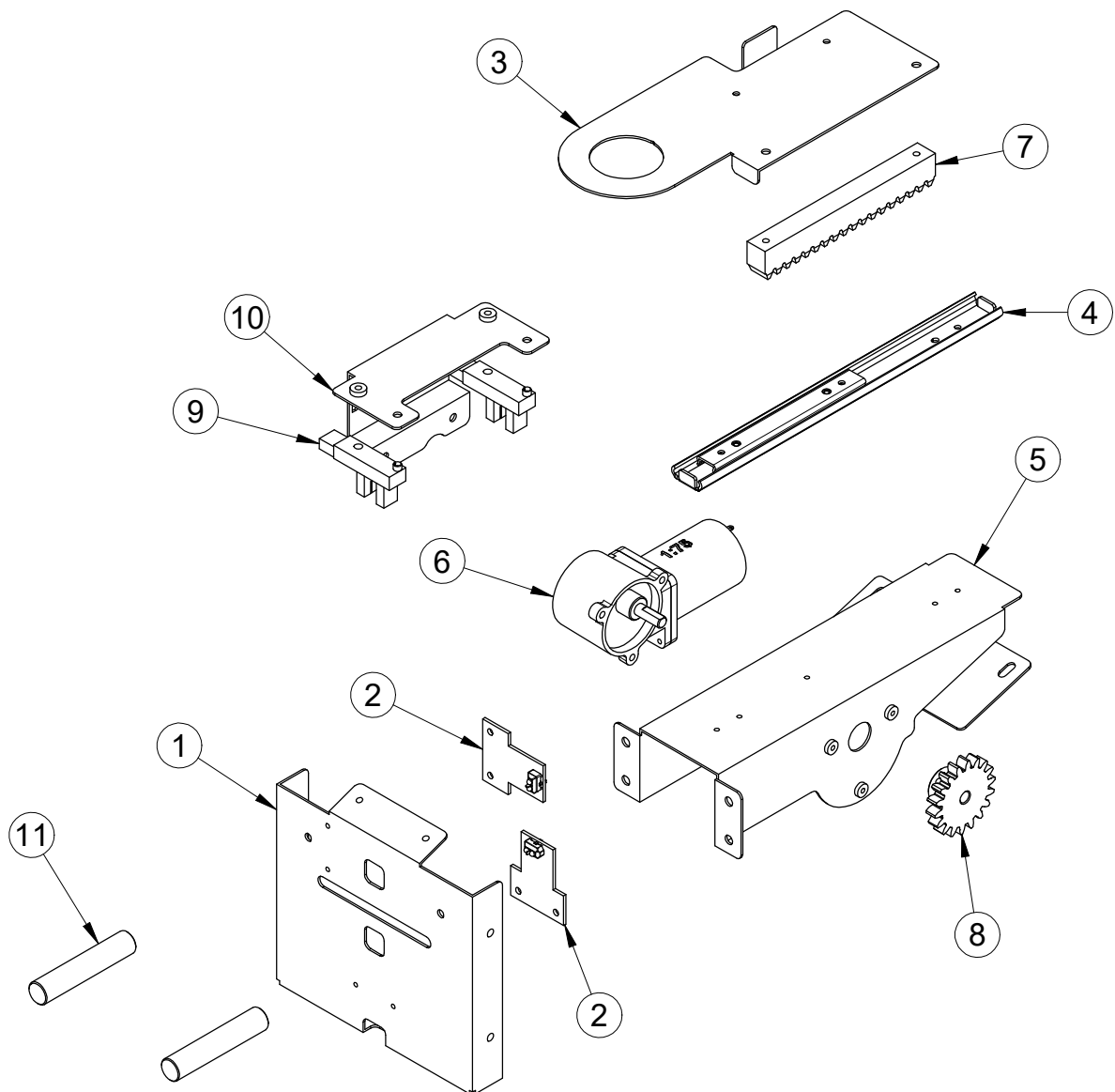
ATOW0ASM008



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET015	1	PUSH LOWER BKT	GI-1.6t
2	MTOW0ACR023	2	PUSH AIR ACRYL	CLEAR PET-0.5t (투명 PET)
3	MTOW0MET017	2	BALL SHOOT AIR DUCT ANGLE BKT	GI-1.2t
4	MTOW0MET016	1	BALL SHOOT AIR DUCT BKT	SPCC-1.2t
5	MTOW0MET020	1	BALL SHOOT BOTTOM GUIDE BKT	GI-1.2t
6	MTOW0PRO005	1	BALL SHOOT CYLINDER HOUSING	AL
7	MTOW0PRO004	1	BALL SHOOTER SHAFT	AL
8	MZZZ0RUB013	2	O-RING (P8)	NBR (7.8 X Φ1.9)
9	MTOW0MOL002	1	RUBBER CUSHION	PU (폴리우레탄)

12-9.BALL SHOOT DOOR Ass'y

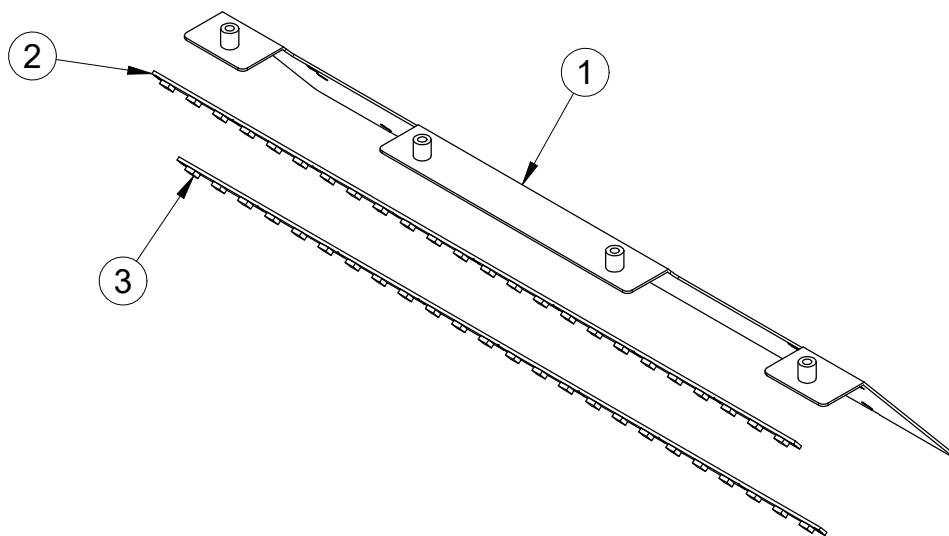
ATOW0ASM009



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET013	1	BALL SHOOT GUIDE FRONT BKT	SPCC-1.2t
2	ATWB0BOA002	2	BALL HOLE SENSOR BOARD (NEW)	KMSEN-2504-129B
3	MTOW0MET014	1	BALL SHOOT DOOR BKT	SPCC-1.2t
4	MZZZ0000422	1	LINEAR MOTION SLIDE (2011-200)	2011-200
5	MTOW0MET018	1	LINEAR MOTION SLIDE FIXED BKT	GI-1.2t
6	MZZZ0MOT057	1	KWC SERIES MOTOR (75)	KWC-3448S1 (1/75. 60rpm)
7	MCBD0PRO015	1	BALL RAIL RACK GEAR	AL
8	MCBD0PRO017	1	BALL STOPPER MOTOR GEAR	AL
9	MLIM0PHO001	2	SINCO SENSOR (KI669)	SINKO:KI669
10	MTOW0MET019	1	BALL SHOOT DOOR SENSOR FIXED BKT	GI-1.2t
11	MTOW0PRO003	2	BALL GUIDE PIN SHAFT	AL

12-10.TOP CABINET FRONT LED Ass'y

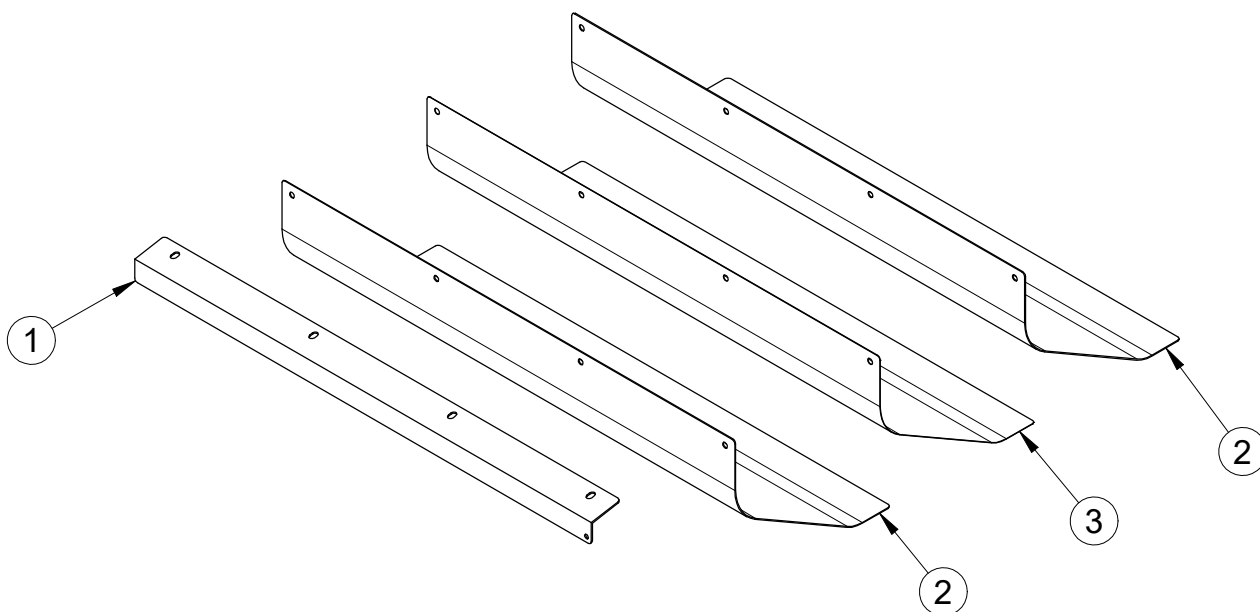
ATOW0ASM010



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET021	1	TOP CABINET FRONT LED FIXED BKT	GI-1.2t
2	ATOW0LBA003	1	TOW LED BAR 400mm-A	120-35155 / 120-35184
3	ATOW0LBA004	1	TOW LED BAR 400mm-B	120-35155

12-11.TOP CABINET FRONT COVER ACRYL Ass'y

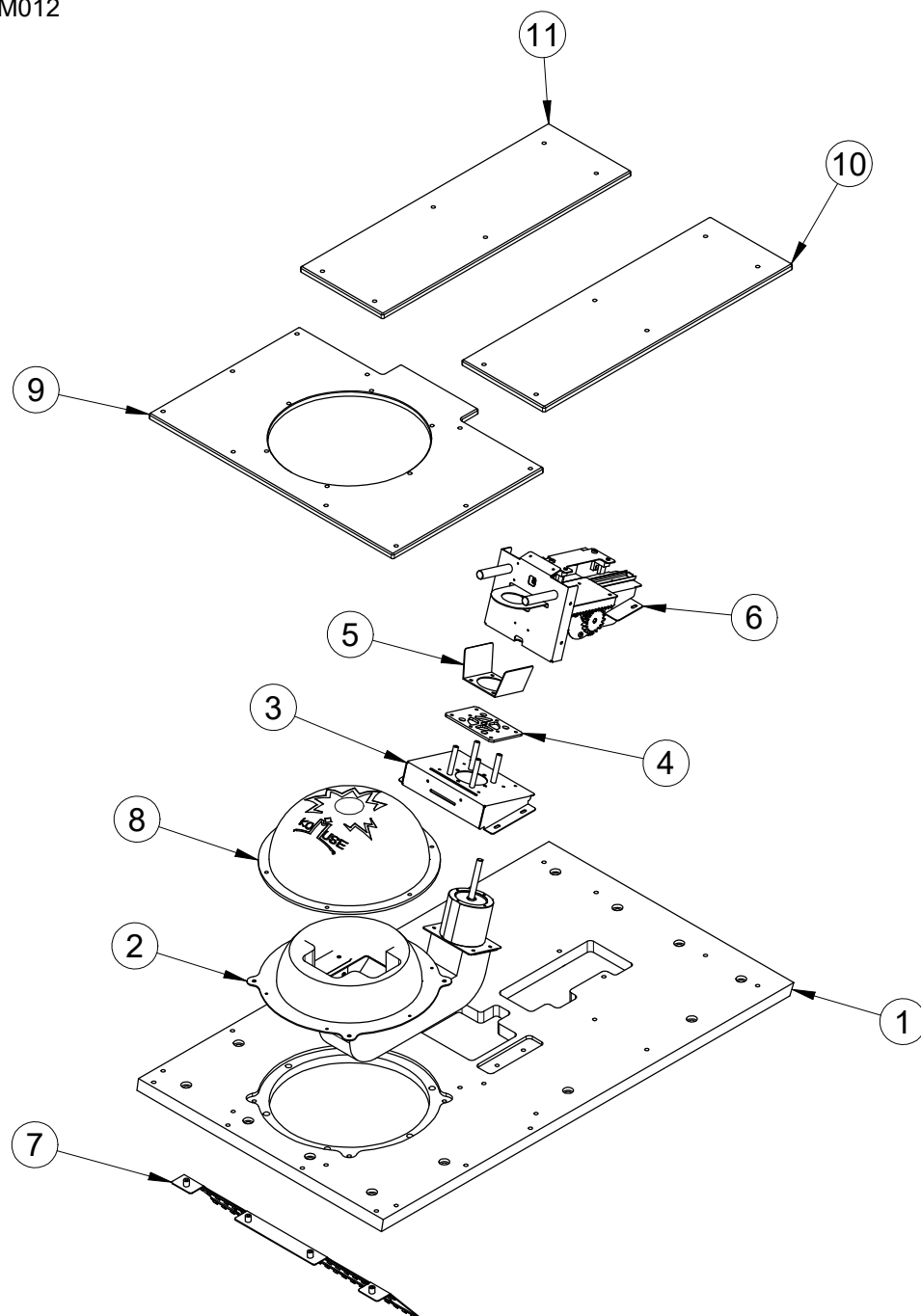
ATOW0ASM011



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET034	1	TOP CABINET FRONT COVER ACRYL FIXED BKT	SPCC-1.2t
2	MTOW0ACR001	2	TOP CABINET FRONT COVER ACRYL	CLEAR PC-0.8t (투명 PC)
3	MTOW0SHE007	1	TOP CABINET FRONT COVER SHEET	SHEET

12-12.PUSHER TOP PANEL Ass'y

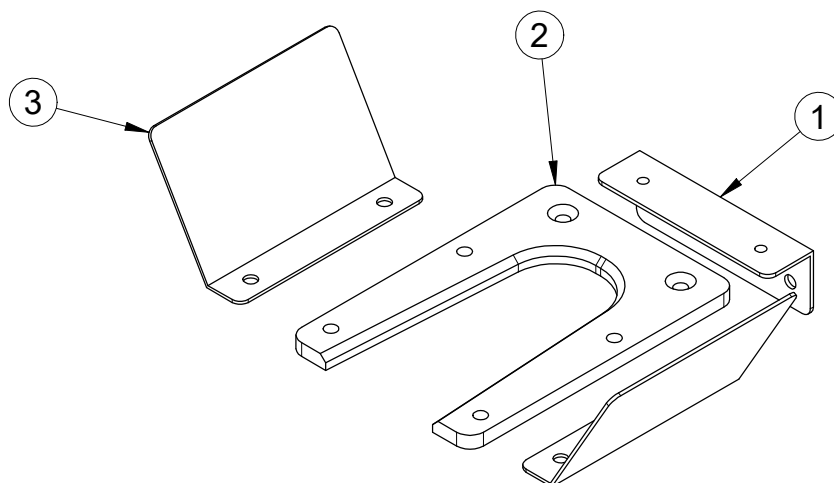
ATOW0ASM012



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0WOO004	1	PUSHER TOP PANEL	PW-18.0t
2	ATOW0ASM008	1	PUSHER Ass'y	12-8 (23 page)
3	MTOW0MET010	1	BALL SHOOT BASE BRKT	SPCC-1.2t
4	MTOW0MET011	1	BALL SHOOT TOP GUIDE BKT	SPCC-3.0t
5	MTOW0MET012	1	BALL SHOOT GUIDE BKT	SPCC-1.2t
6	ATOW0ASM009	1	BALL SHOOT DOOR Ass'y	12-9 (24 page)
7	ATOW0ASM010	1	TOP CABINET FRONT LED Ass'y	12-10 (25 page)
8	MTOW0MOL001	1	RUBBER PUSHER	RUBBER
9	ATOW0A&S012	1	PUSHER PANEL COVER ACRYL-A	CLEAR ACRYL - 8.0t (투명 압출판 아크릴)
10	ATOW0A&S013	1	PUSHER PANEL COVER ACRYL-B	CLEAR ACRYL - 8.0t (투명 압출판 아크릴)
11	ATOW0A&S014	1	PUSHER PANEL COVER ACRYL-C	CLEAR ACRYL - 8.0t (투명 압출판 아크릴)

12-13.BALL BASKET ACRYL (10) Ass'y

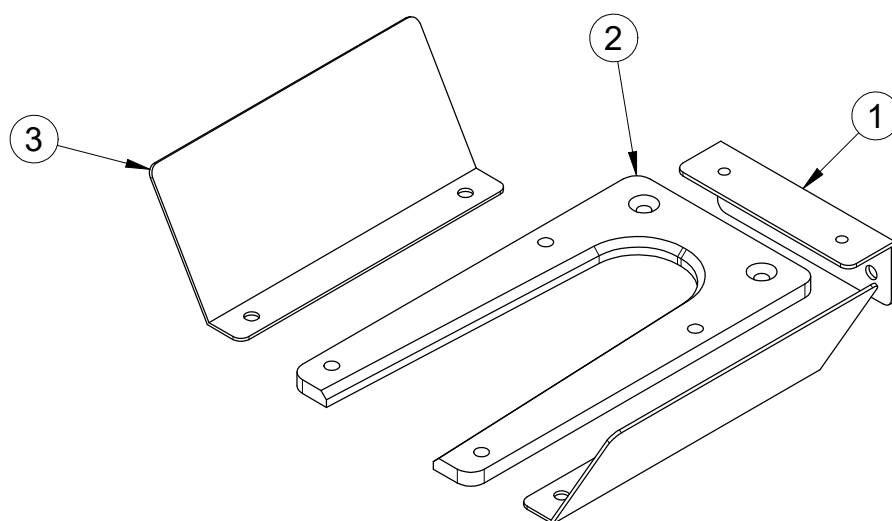
ATOW0ASM013



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET025	1	BALL BASKET FIXED BKT	SPCC-1.2t
2	MTOW0ACR005	1	BALL BASKET ACRYL (10)	CLEAR PC-4.5t [투명 PC]
3	MTOW0ACR017	2	BALL BASKET ACRYL SIDE PET (10)	CLEAR PET-1.0t (투명 PET)

12-14.BALL BASKET ACRYL (13) Ass'y

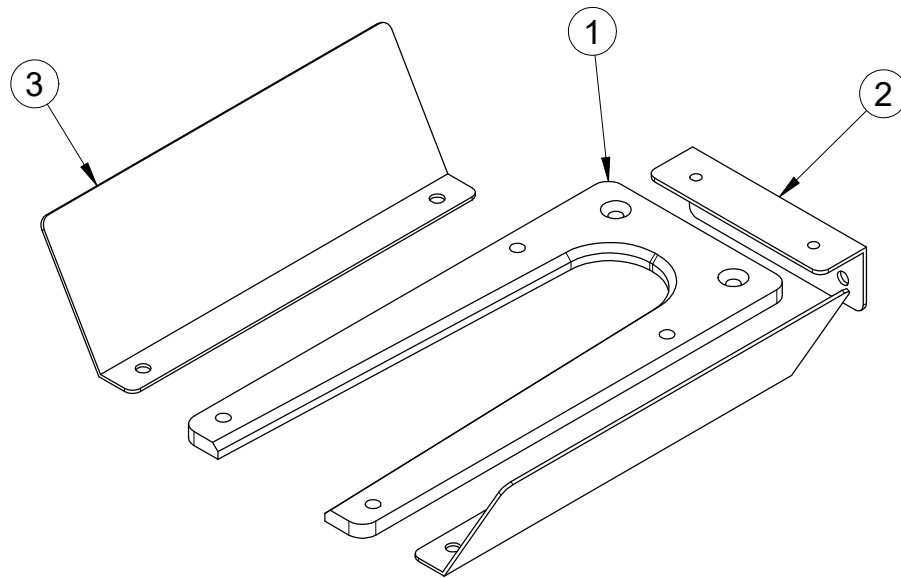
ATOW0ASM014



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET025	1	BALL BASKET FIXED BKT	SPCC-1.2t
2	MTOW0ACR006	1	BALL BASKET ACRYL (13)	CLEAR PC-4.5t [투명 PC]
3	MTOW0ACR018	2	BALL BASKET ACRYL SIDE PET (13)	CLEAR PET-1.0t (투명 PET)

12-15.BALL BASKET ACRYL (16) Ass'y

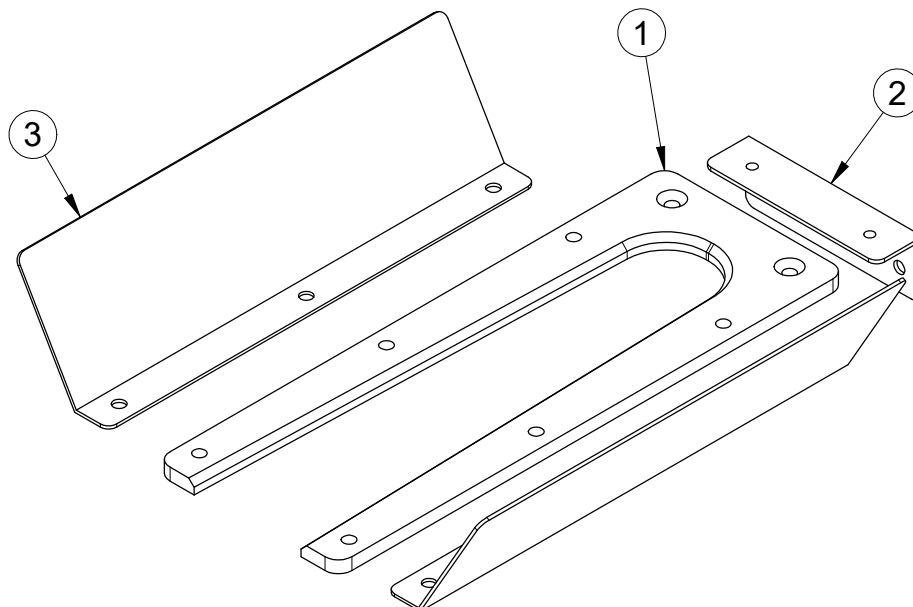
ATOW0ASM015



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0ACR007	1	BALL BASKET ACRYL (16)	CLEAR PC-4.5t [투명 PC]
2	MTOW0MET025	1	BALL BASKET FIXED BKT	SPCC-1.2t
3	MTOW0ACR019	2	BALL BASKET ACRYL SIDE PET (16)	CLEAR PET-1.0t (투명 PET)

12-16.BALL BASKET ACRYL (19) Ass'y

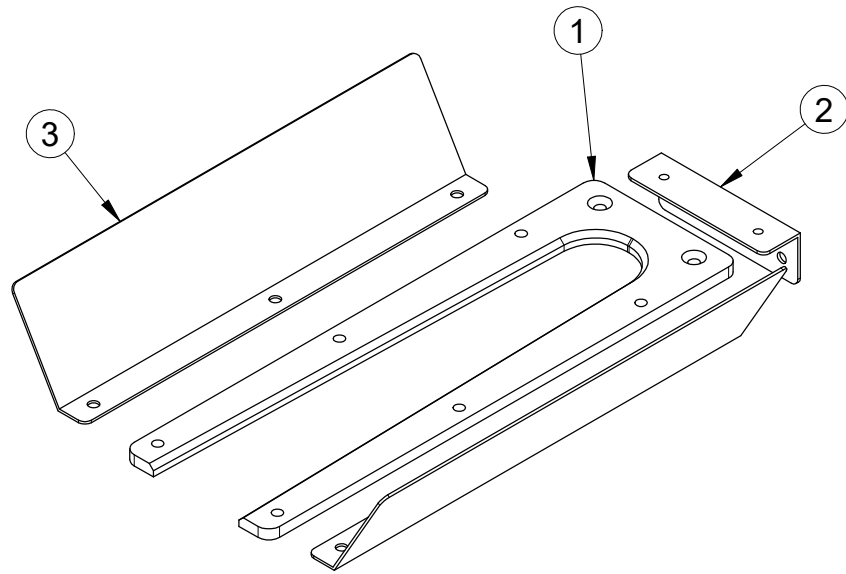
ATOW0ASM016



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0ACR008	1	BALL BASKET ACRYL (19)	CLEAR PC-4.5t [투명 PC]
2	MTOW0MET025	1	BALL BASKET FIXED BKT	SPCC-1.2t
3	MTOW0ACR020	2	BALL BASKET ACRYL SIDE PET (19)	CLEAR PET-1.0t (투명 PET)

12-17.BALL BASKET ACRYL (22) Ass'y

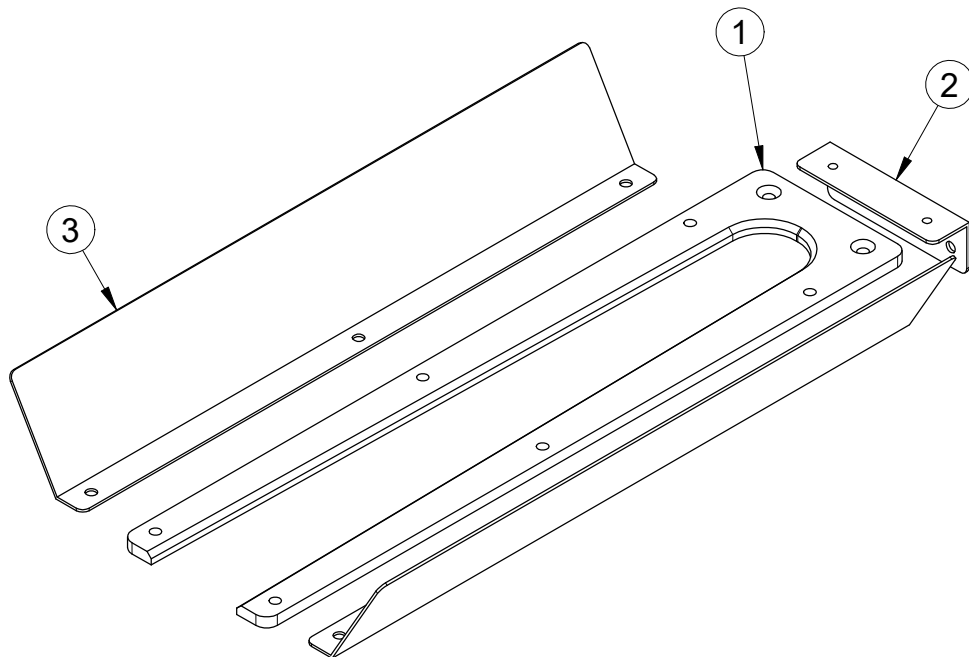
ATOW0ASM017



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0ACR009	1	BALL BASKET ACRYL (22)	CLEAR PC-4.5t [투명 PC]
2	MTOW0MET025	1	BALL BASKET FIXED BKT	SPCC-1.2t
3	MTOW0ACR021	2	BALL BASKET ACRYL SIDE PET (22)	CLEAR PET-1.0t (투명 PET)

12-18.BALL BASKET ACRYL (30) Ass'y

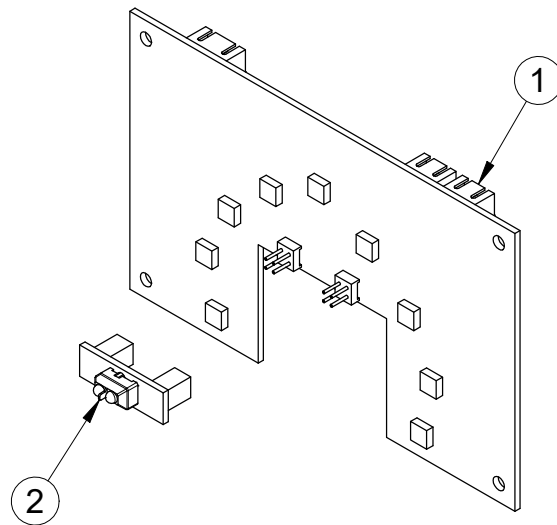
ATOW0ASM018



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0ACR010	1	BALL BASKET ACRYL (30)	CLEAR PC-4.5t [투명 PC]
2	MTOW0MET025	1	BALL BASKET FIXED BKT	SPCC-1.2t
3	MTOW0ACR022	2	BALL BASKET ACRYL SIDE PET (30)	CLEAR PET-1.0t (투명 PET)

12-19.TOWER LED SENSOR BOARD Ass'y

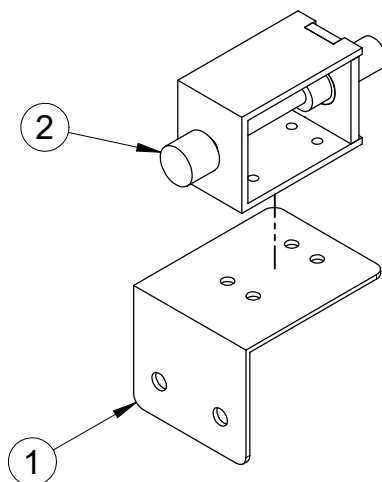
ATOW0ASM019



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	ATOW0BOA001	1	TOWER LED SENSOR BOARD	KMSEN-2504-506A
2	AFHB0BOA005	1	RSEN_TOP SENSOR BOARD	KMSEN-2104-234A

12-20.BALL RETURN SOLENOID Ass'y

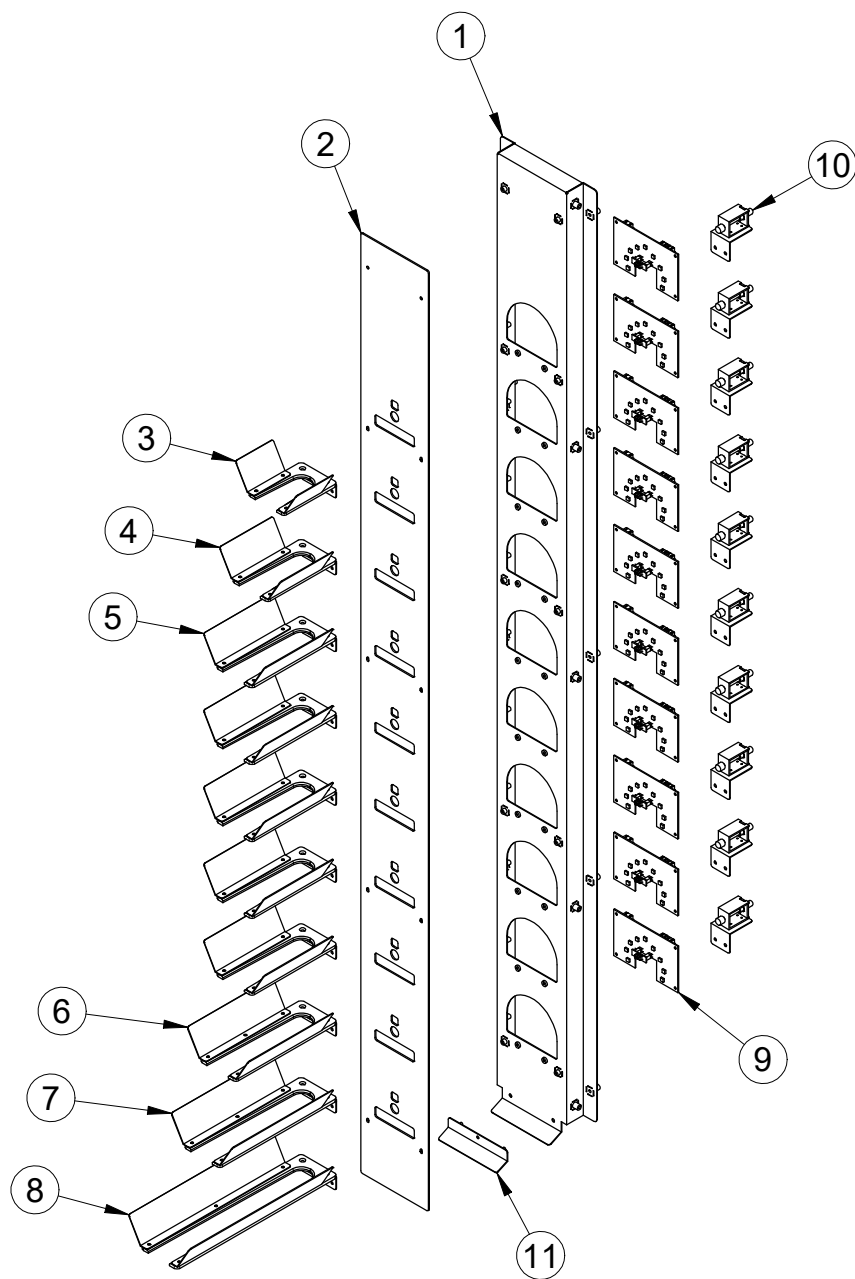
ATOW0ASM020



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET027	1	BALL RETURN SOLENOID FIXED BKT	SUS304-1.2t (2B)
2	MZZZ0SOL010	1	SOLENOID SD08AS12V-ST 35155	35155-2P / STRONG

12-21.BALL RAIL GUIDE BASE Ass'y

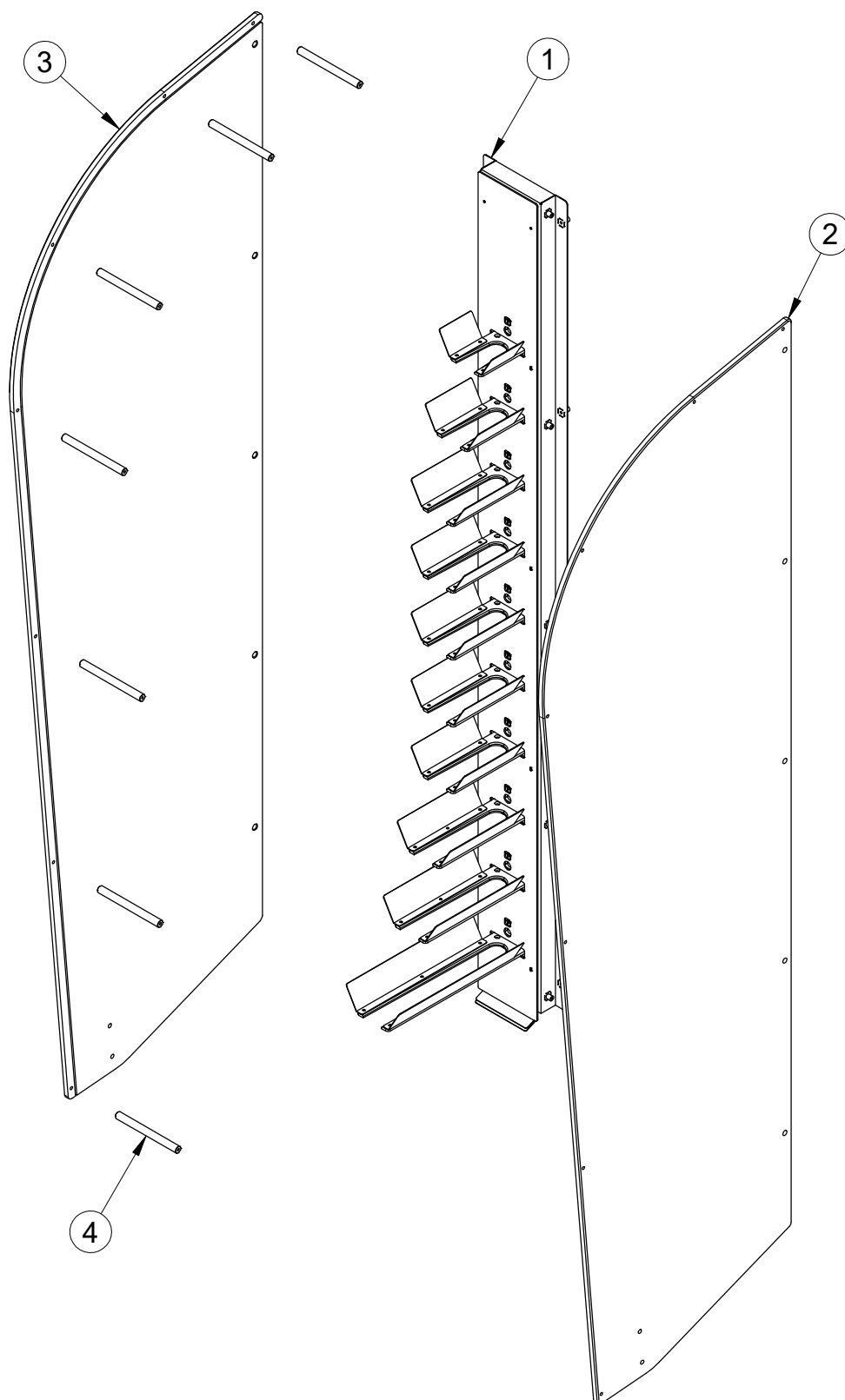
ATOW0ASM021



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET024	1	BALL GUIDE BASE BKT	SPCC-1.2t
2	MTOW0ACR002	1	BALL RAIL BACK COVER ACRYL	LIGHT DIFFUSION PC-2.0t (광확산PC-2.0t)
3	ATOW0ASM013	1	BALL BASKET ACRYL (10) Ass'y	12-13 (27 page)
4	ATOW0ASM014	1	BALL BASKET ACRYL (13) Ass'y	12-14 (27 page)
5	ATOW0ASM015	5	BALL BASKET ACRYL (16) Ass'y	12-15 (28 page)
6	ATOW0ASM016	1	BALL BASKET ACRYL (19) Ass'y	12-16 (28 page)
7	ATOW0ASM017	1	BALL BASKET ACRYL (22) Ass'y	12-17 (29 page)
8	ATOW0ASM018	1	BALL BASKET ACRYL (30) Ass'y	12-18 (29 page)
9	ATOW0ASM019	10	TOWER LED SENSOR BOARD Ass'y	12-19 (30 page)
10	ATOW0ASM020	10	BALL RETURN SOLENOID Ass'y	12-20 (30 page)
11	MTOW0MET026	1	BALL RAIL GUIDE BOTTOM ACRYL FIXED BKT	SPCC-1.2t

12-22.BALL RAIL Ass'y.

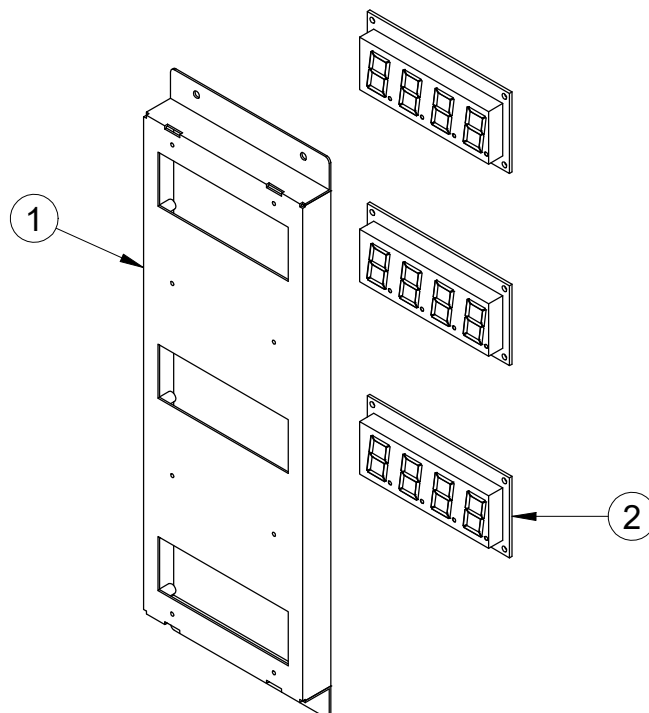
ATOW0ASM022



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	ATOW0ASM021	1	BALL RAIL GUIDE BASE Ass'y	12-21 (31 page)
2	ATOW0A&S015	1	BALL RAIL SIDE GUIDE ACRYL-R	CLEAR ACRYL - 10.0t (투명 압출판 아크릴)
3	ATOW0A&S016	1	BALL RAIL SIDE GUIDE ACRYL-L	CLEAR ACRYL - 10.0t (투명 압출판 아크릴)
4	MTOW0PRO002	7	BALL GUIDE SUPPORT SHAFT	AL

12-23.SCORE FND BAS BKT-A Ass'y

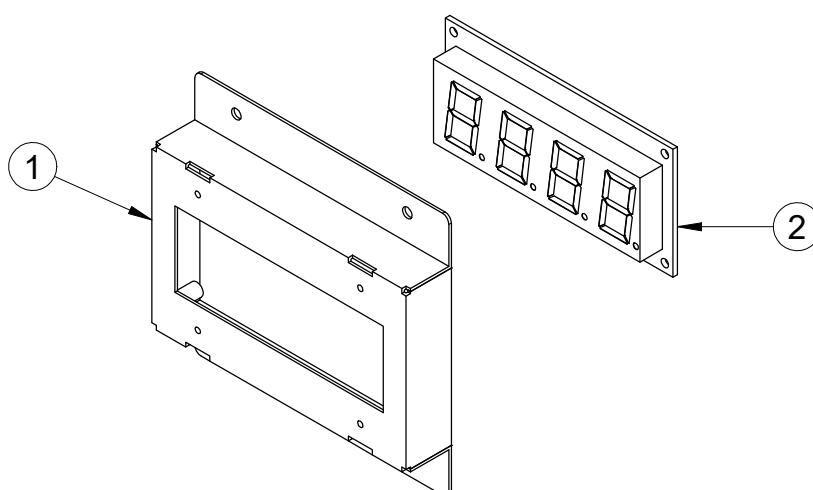
ATOW0ASM023



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET049	1	SCORE FND BASE BKT-A	GI-1.2t
2	ATAW0BOA012	3	KMFND-1907-055C (BLUE-4P) BOARD	WCN1-00A0B7-A21

12-24.SCORE FND BAS BKT-B Ass'y

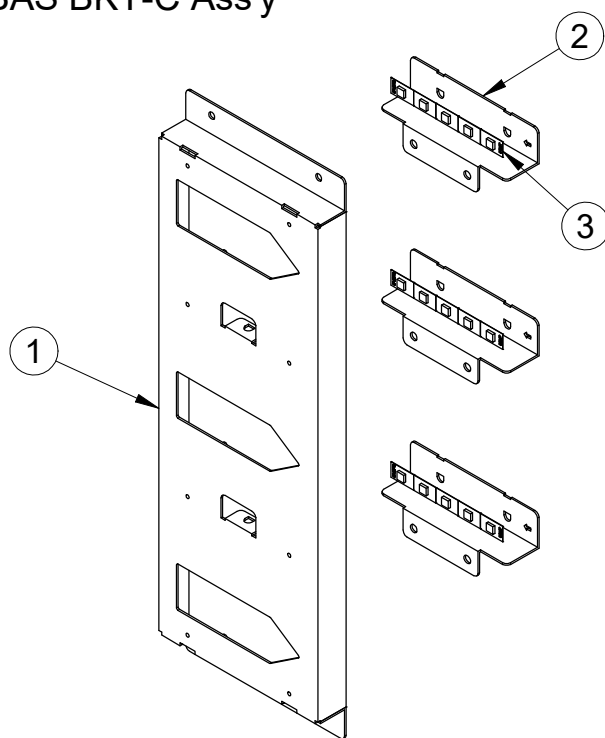
ATOW0ASM024



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET050	1	SCORE FND BASE BKT-B	GI-1.2t
2	ATAW0BOA012	1	KMFND-1907-055C (BLUE-4P) BOARD	WCN1-00A0B7-A21

12-25.SCORE FND BAS BKT-C Ass'y

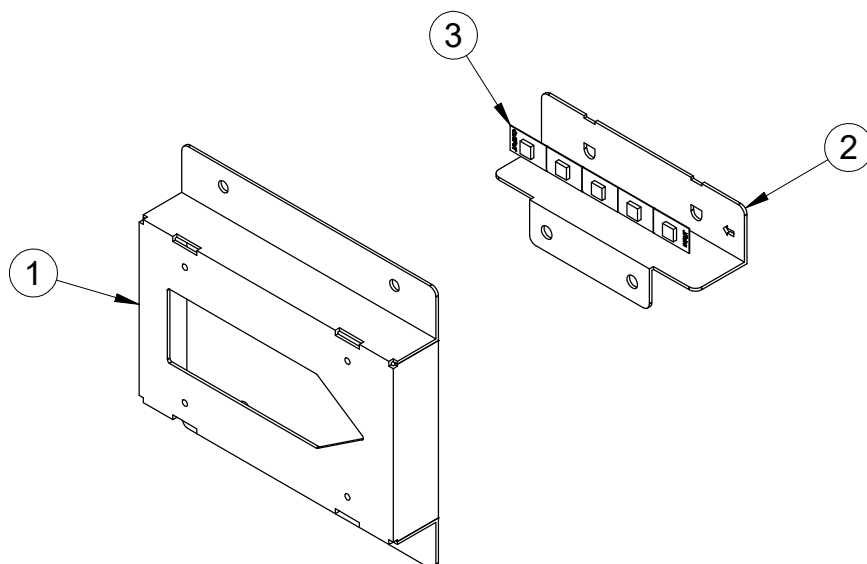
ATOW0ASM025



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET051	1	SCORE FND BASE BKT-C	GI-1.2t
2	MTOW0MET054	3	SCORE FLEXIBLE LED FIXED BKT	GI-1.2t
3	ATOW0FLM003	3	TOW FL10-S-16.6-83.3L-5LED-A	120-35155 / 120-35184

12-26.SCORE FND BAS BKT-D Ass'y

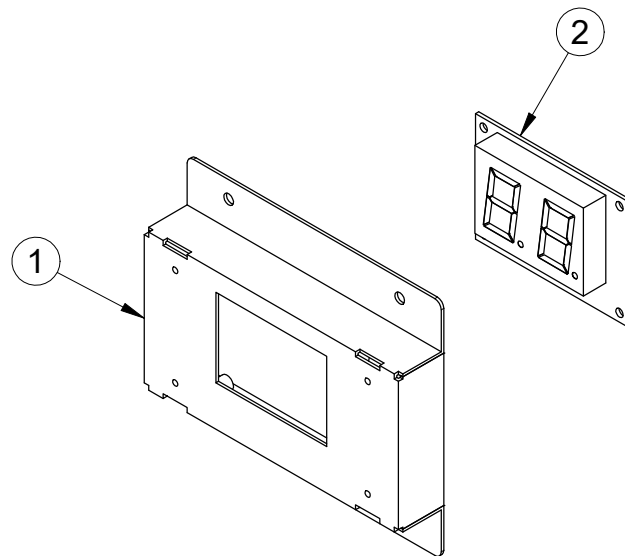
ATOW0ASM026



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET052	1	SCORE FND BASE BKT-D	GI-1.2t
2	MTOW0MET054	1	SCORE FLEXIBLE LED FIXED BKT	GI-1.2t
3	ATOW0FLM003	1	TOW FL10-S-16.6-83.3L-5LED-A	120-35155 / 120-35184

12-27.CREDIT FND Ass'y

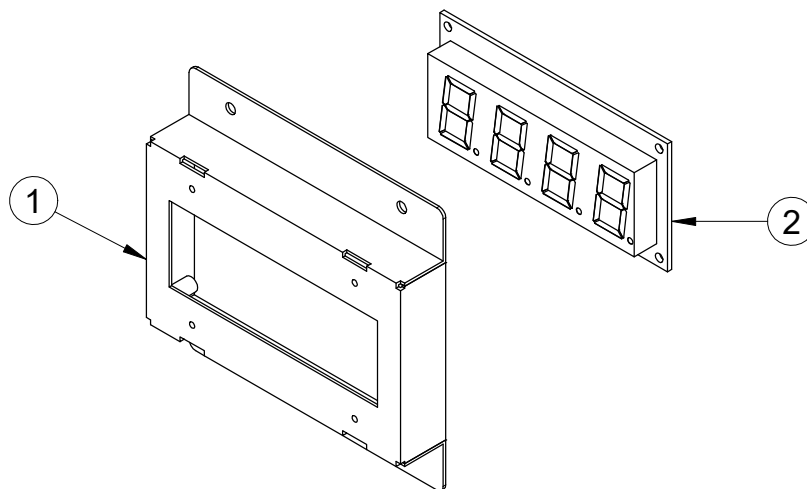
ATOW0ASM027



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET053	1	CREDIT FND BKT	GI-1.2t
2	APIX0BOA018	1	CREDIT FND BOARD-NEW	KMFND-1807-178B

12-28.TICKET OWED Ass'y

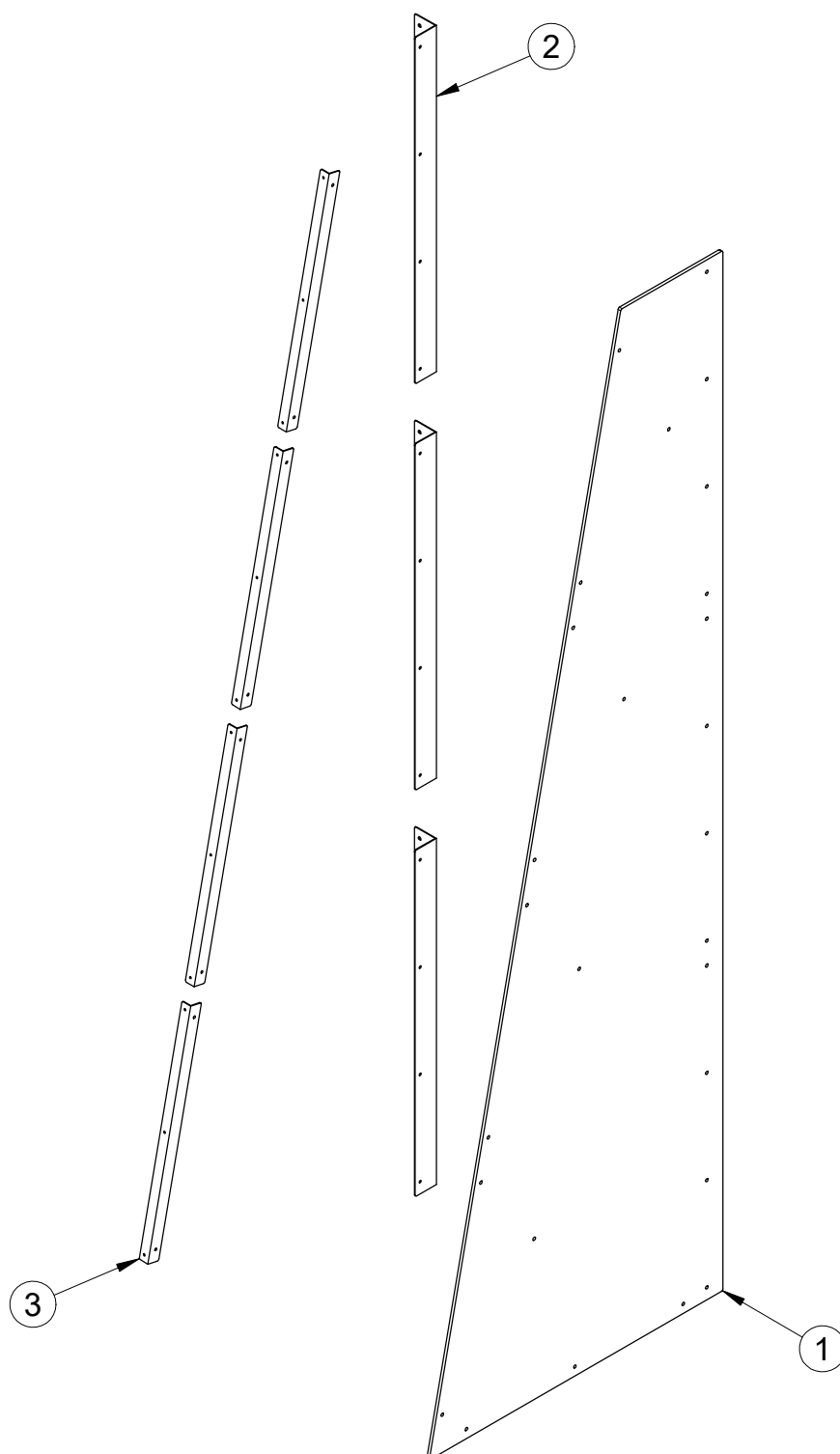
ATOW0ASM028



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET050	1	SCORE FND BASE BKT-B	GI-1.2t
2	APIX0BOA019	1	TICKET OWED FND4 BOARD-NEW	KMFND-1907-055C

12-29.TOP CABINET SIDE FOMEX-R Ass'y

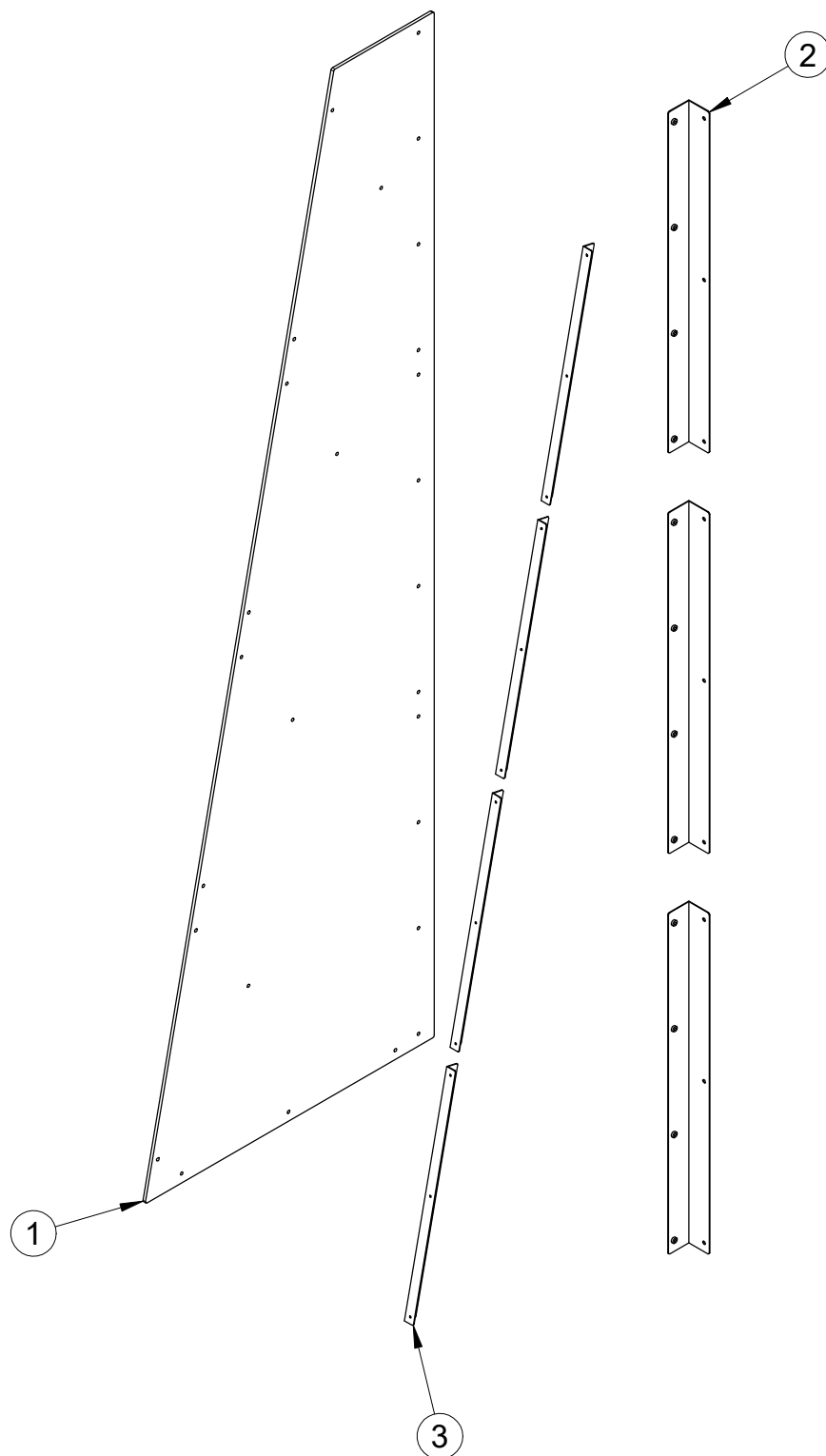
ATOW0ASM029



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	ATOW0A&S017	1	TOP CABINET SIDE FOMEX-R	BLACK COLOR FOMEX - 5.0t (검정색 포맥스)
2	MTOW0MET037	3	TOP CABINET SIDE FOMEX BACK FIXED BKT	SPCC-1.2t
3	MTOW0MET036	4	SIDE LED COVER ACRYL FIXED BKT-B	SPCC-1.2t

12-30.TOP CABINET SIDE FOMEX-L Ass'y

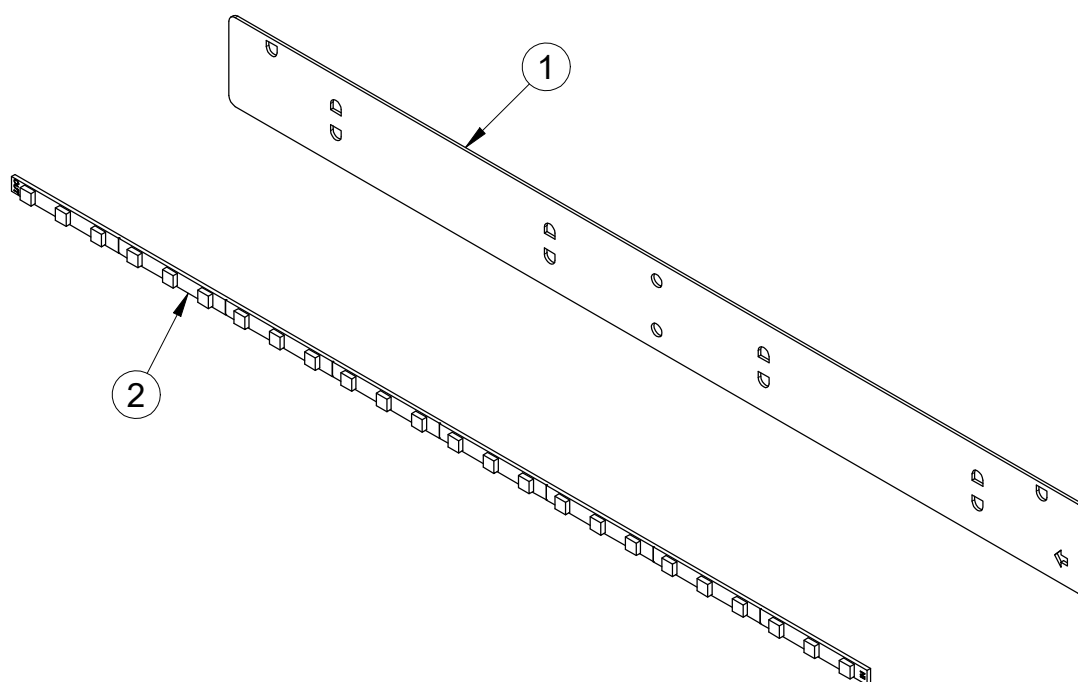
ATOW0ASM030



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	ATOW0A&S018	1	TOP CABINET SIDE FOMEX-L	BLACK COLOR FOMEX - 5.0t (검정색 포맥스)
2	MTOW0MET037	3	TOP CABINET SIDE FOMEX BACK FIXED BKT	SPCC-1.2t
3	MTOW0MET036	4	SIDE LED COVER ACRYL FIXED BKT-B	SPCC-1.2t

12-31.TOP CABINET SIDE LED-A Ass'y

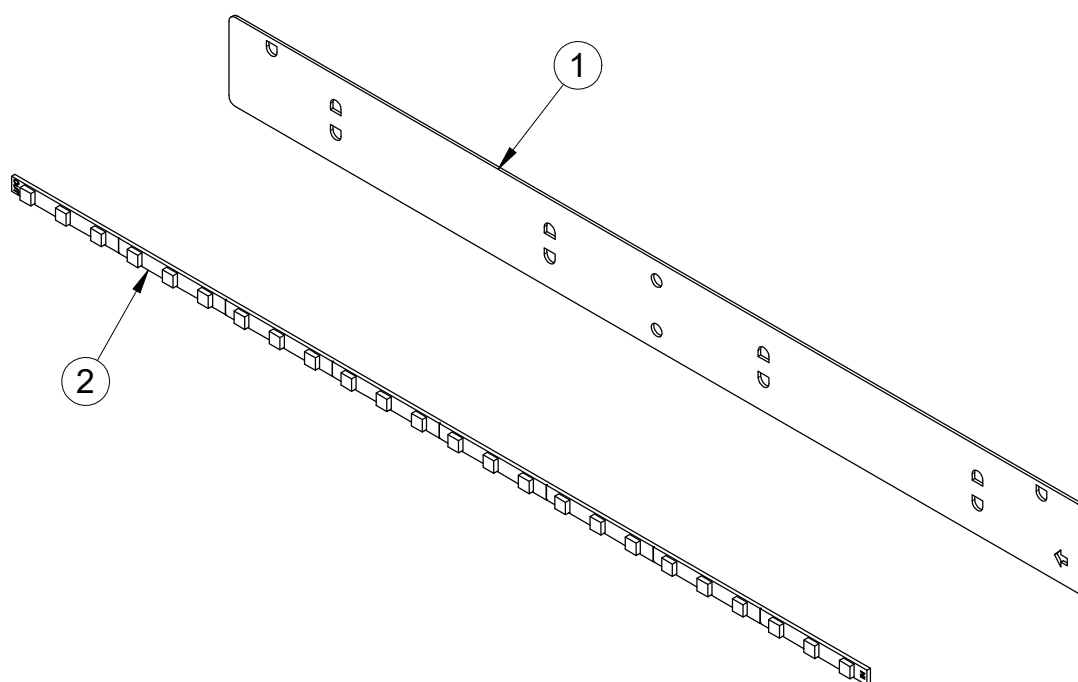
ATOW0ASM031



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET047	1	TOP CABINET SIDE LED FIXED BKT	GI-1.2t
2	ATOW0LBA003	1	TOW LED BAR 400mm-A	120-35155 / 120-35184

12-32.TOP CABINET SIDE LED-B Ass'y

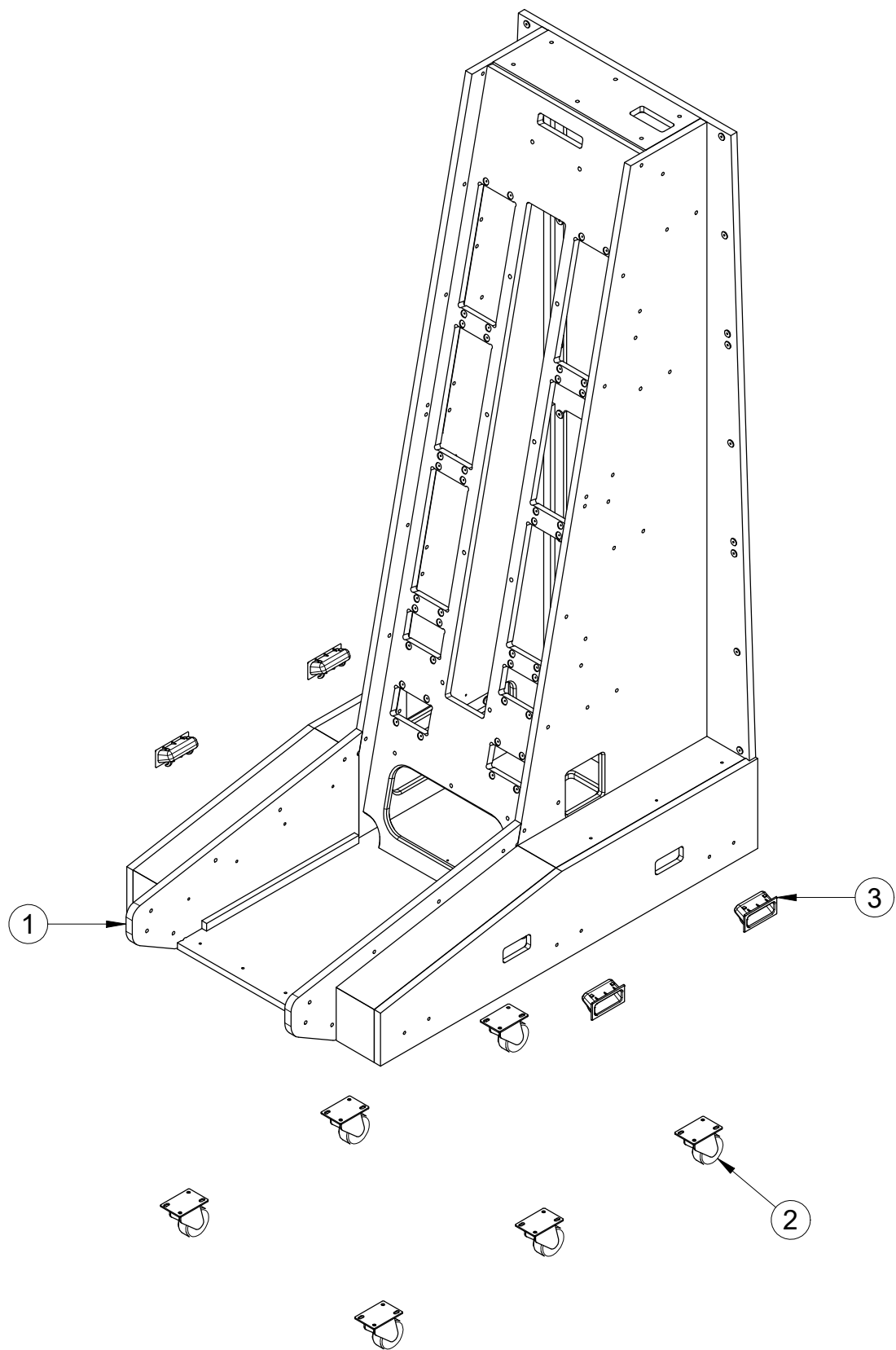
ATOW0ASM032



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET047	1	TOP CABINET SIDE LED FIXED BKT	GI-1.2t
2	ATOW0LBA004	1	TOW LED BAR 400mm-B	120-35155

12-33.TOP CABINET Ass'y

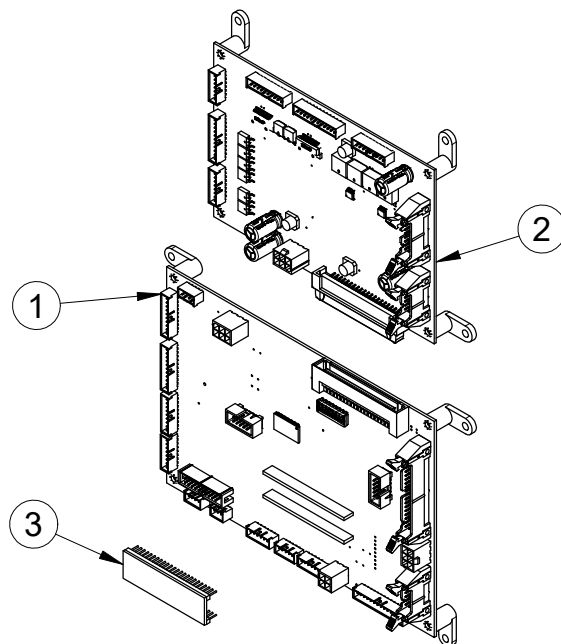
ATOW0ASM033



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0WOO002	1	TOP WOOD CABINET Ass'y	ASSEMBLE (조립품)
2	MZZZ0CAS010	6	CASTER	3021-W-BR (3inch)
3	MMAR0WOO024	4	PLASTIC DRAWER PULLS	BLACK PLASTIC

12-34.TOWER BALL MAIN BOARD Ass'y

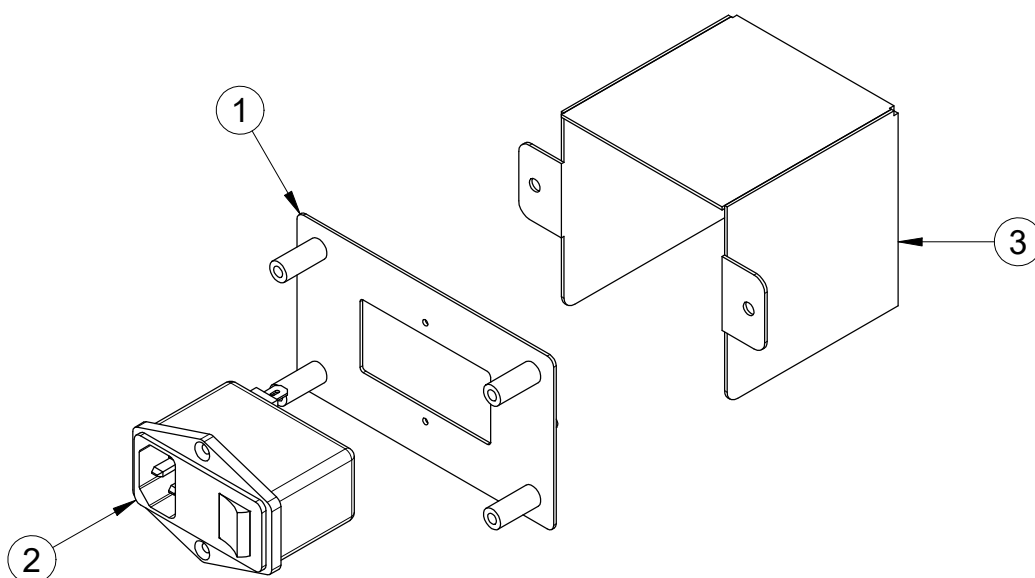
ATOW0ASM034



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	ATOW0BOA005	1	TOWER BALL MAIN BOARD	KMMA-2201-104F-KOMEGA-7
2	AICS0BOA001	1	KOMUSE MULTI IO BOARD-A	KMIO-2108-225B
3	ATOW0BOA006	1	TOWER BALL SOUND ROM BOARD	KMMM100808A

12-35.NOISE FILTER Ass'y

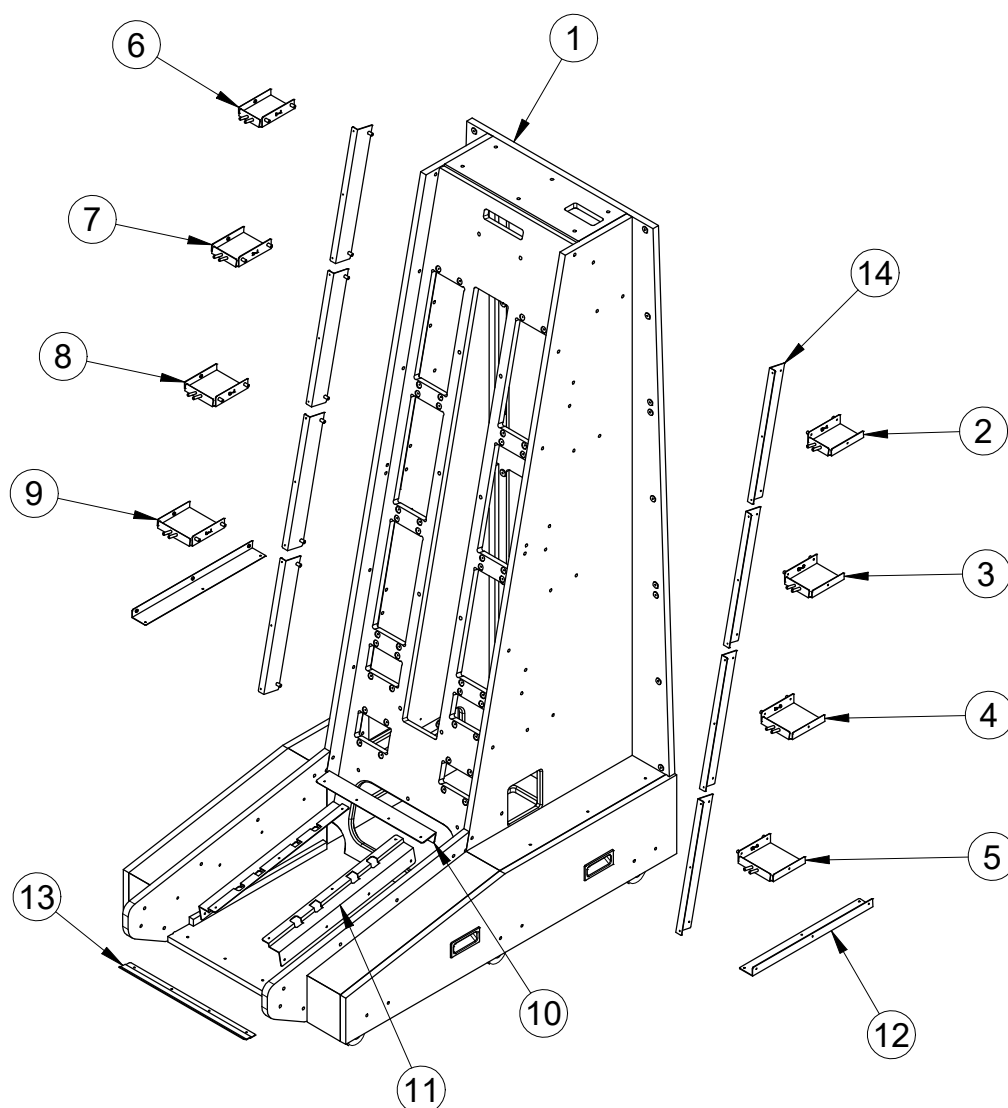
AKOM0ASM001



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MKOM0MET001	1	AC INPUT BRACKET	SPCC-1.2t
2	MELE0NOI002	1	NOISE FILTER	IP-0642-H2
3	MKOM0MET002	1	NOISE FILTER COVER	SPCC-1.2t

12-36.TOP CASE Ass'y

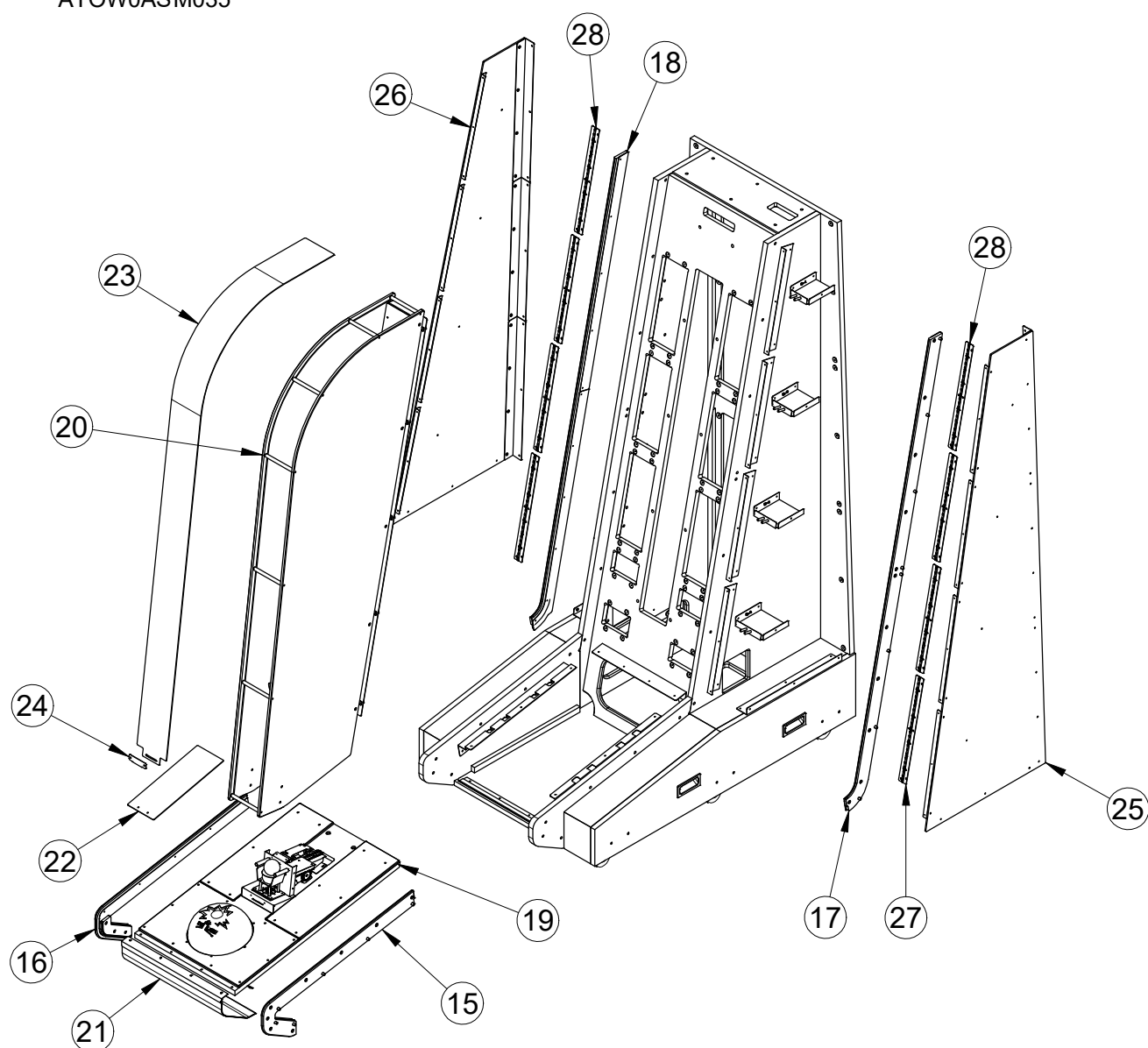
ATOW0ASM035



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	ATOW0ASM033	1	TOP CABINET Ass'y	12-33 (39 page)
2	MTOW0MET038	1	TOP CABINET SIDE FOMEX SUPPORT BKT-R1	GI-1.2t
3	MTOW0MET040	1	TOP CABINET SIDE FOMEX SUPPORT BKT-R2	GI-1.2t
4	MTOW0MET042	1	TOP CABINET SIDE FOMEX SUPPORT BKT-R3	GI-1.2t
5	MTOW0MET044	1	TOP CABINET SIDE FOMEX SUPPORT BKT-R4	GI-1.2t
6	MTOW0MET039	1	TOP CABINET SIDE FOMEX SUPPORT BKT-L1	GI-1.2t
7	MTOW0MET041	1	TOP CABINET SIDE FOMEX SUPPORT BKT-L2	GI-1.2t
8	MTOW0MET043	1	TOP CABINET SIDE FOMEX SUPPORT BKT-L3	GI-1.2t
9	MTOW0MET045	1	TOP CABINET SIDE FOMEX SUPPORT BKT-L4	GI-1.2t
10	MTOW0MET022	1	PUSHER TOP PANEL BACK FIXED BKT	GI-1.6t
11	MTOW0MET023	2	PUSHER TOP PANEL SIDE FIXED BKT	GI-1.6t
12	MTOW0MET046	2	TOP CABINET SIDE FOMEX LOWER FIXED BKT	GI-1.2t
13	MTOW0MET048	1	TOP CABINET FRONT COVER GUIDE BOTTOM BKT	GI-1.6t
14	MTOW0MET035	8	SIDE LED COVER ACRYL FIXED BKT-A	SPCC-1.2t

12-36.TOP CASE Ass'y

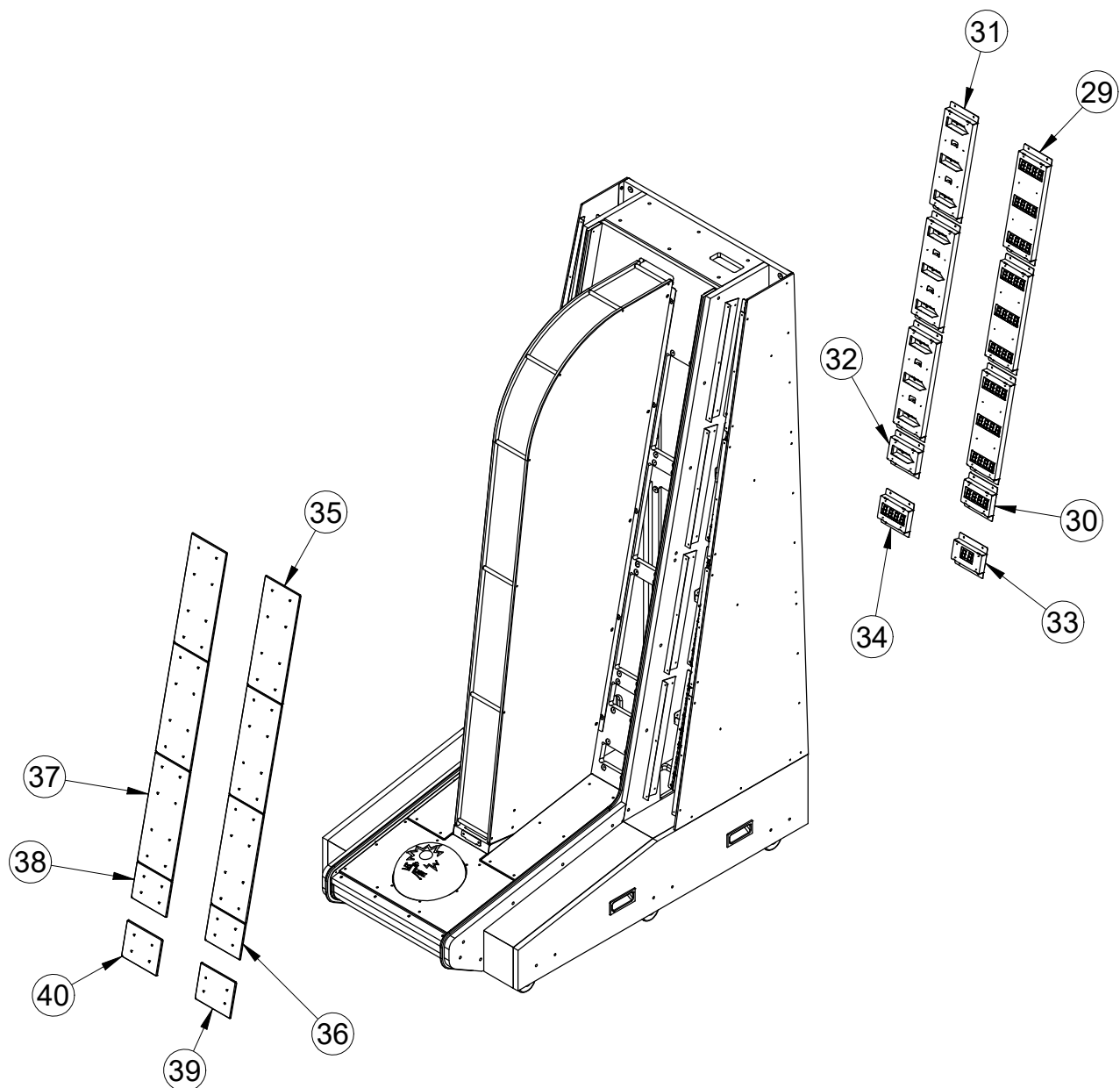
ATOW0ASM035



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
15	ATOW0ASM004	1	TOP CABINET LOWER SIDE DECO ACRYL-R Ass'y	12-4 (21 page)
16	ATOW0ASM005	1	TOP CABINET LOWER SIDE DECO ACRYL-L Ass'y	12-5 (21 page)
17	ATOW0ASM006	1	TOP CABINET TOP SIDE DECO ACRYL-R Ass'y	12-6 (22 page)
18	ATOW0ASM007	1	TOP CABINET TOP SIDE DECO ACRYL-L Ass'y	12-7 (22 page)
19	ATOW0ASM012	1	PUSHER TOP PANEL Ass'y	12-12 (26 page)
20	ATOW0ASM022	1	BALL RAIL Ass'y.	12-22 (32 page)
21	ATOW0ASM011	1	TOP CABINET FRONT COVER ACRYL Ass'y	12-11 (25 page)
22	MTOW0ACR003	1	BALL RAIL GUIDE BOTTOM ACRYL	LIGHT DIFFUSION PC-2.0t (광확산PC-2.0t)
23	MTOW0ACR004	1	BALL RAIL FRONT COVER ACRYL	CLEAR PET-2.0t (투명 PET)
24	MTOW0MET062	1	BALL RAIL FRONT COVER ACRYL FIXED BKT	SPCC-1.6t
25	ATOW0ASM029	1	TOP CABINET SIDE FOMEX-R Ass'y	12-29 (36 page)
26	ATOW0ASM030	1	TOP CABINET SIDE FOMEX-L Ass'y	12-30 (37 page)
27	ATOW0ASM031	6	TOP CABINET SIDE LED-A Ass'y	12-31 (38 page)
28	ATOW0ASM032	2	TOP CABINET SIDE LED-B Ass'y	12-32 (38 page)

12-36.TOP CASE Ass'y

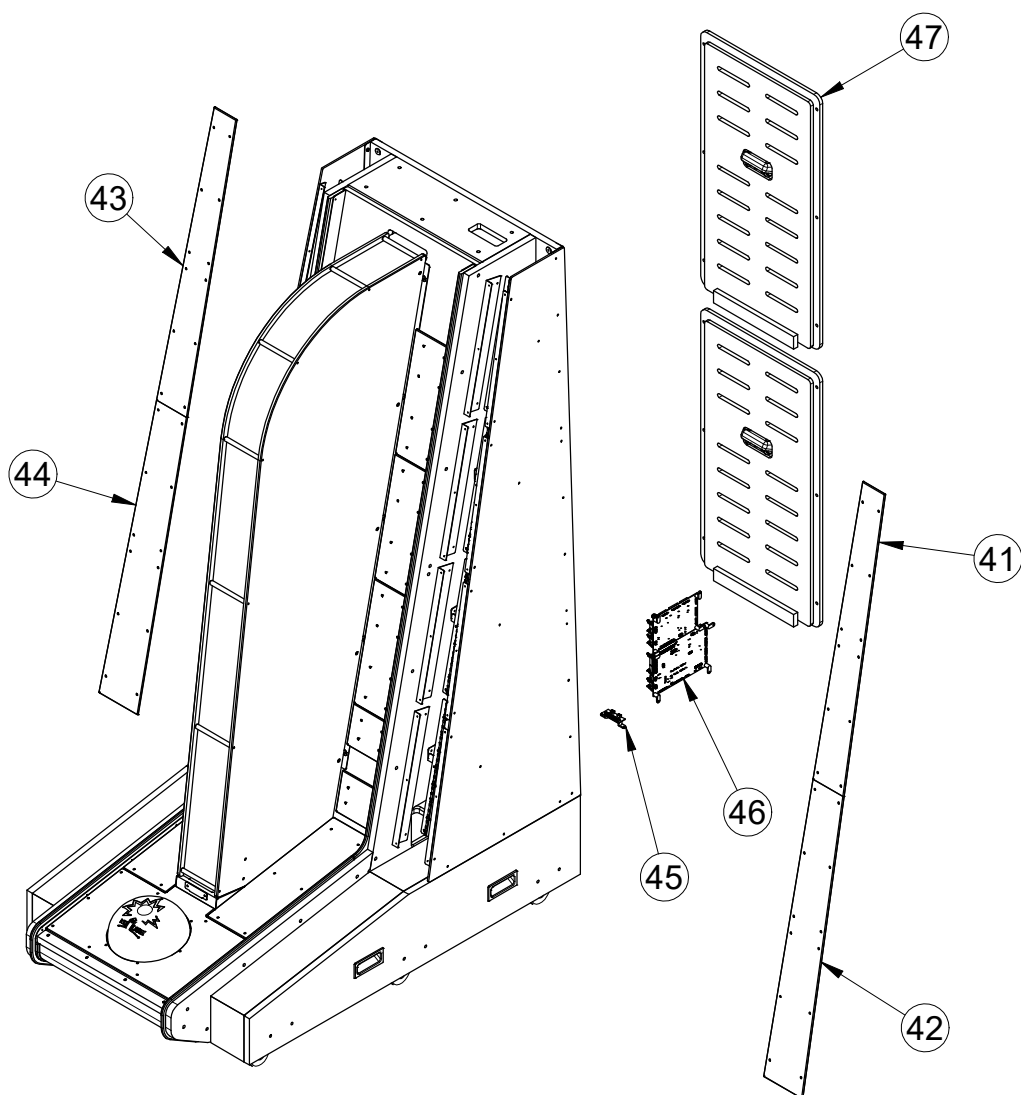
ATOW0ASM035



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
29	ATOW0ASM023	3	SCORE FND BAS BKT-A Ass'y	12-23 (33 page)
30	ATOW0ASM024	1	SCORE FND BAS BKT-B Ass'y	12-24 (33 page)
31	ATOW0ASM025	3	SCORE FND BAS BKT-C Ass'y	12-25 (34 page)
32	ATOW0ASM026	1	SCORE FND BAS BKT-D Ass'y	12-26 (34 page)
33	ATOW0ASM027	1	CREDIT FND Ass'y	12-27 (35 page)
34	ATOW0ASM028	1	TICKET OWED Ass'y	12-28 (35 page)
35	ATOW0A&S002	3	SCORE FND BASE BKT-A COVER ACRYL	CLEAR ACRYL - 4.5t (투명 압출판 아크릴)
36	ATOW0A&S003	1	SCORE FND BASE BKT-B COVER ACRYL	CLEAR ACRYL - 4.5t (투명 압출판 아크릴)
37	ATOW0A&S004	3	SCORE FND BASE BKT-C COVER ACRYL	CLEAR ACRYL - 4.5t (투명 압출판 아크릴)
38	ATOW0A&S005	1	SCORE FND BASE BKT-D COVER ACRYL	CLEAR ACRYL - 4.5t (투명 압출판 아크릴)
39	ATOW0A&S006	1	CREDIT FND COVER ACRYL	CLEAR ACRYL - 4.5t (투명 압출판 아크릴)
40	ATOW0A&S007	1	TICKET OWED COVER ACRYL	CLEAR ACRYL - 4.5t (투명 압출판 아크릴)

12-36.TOP CASE Ass'y

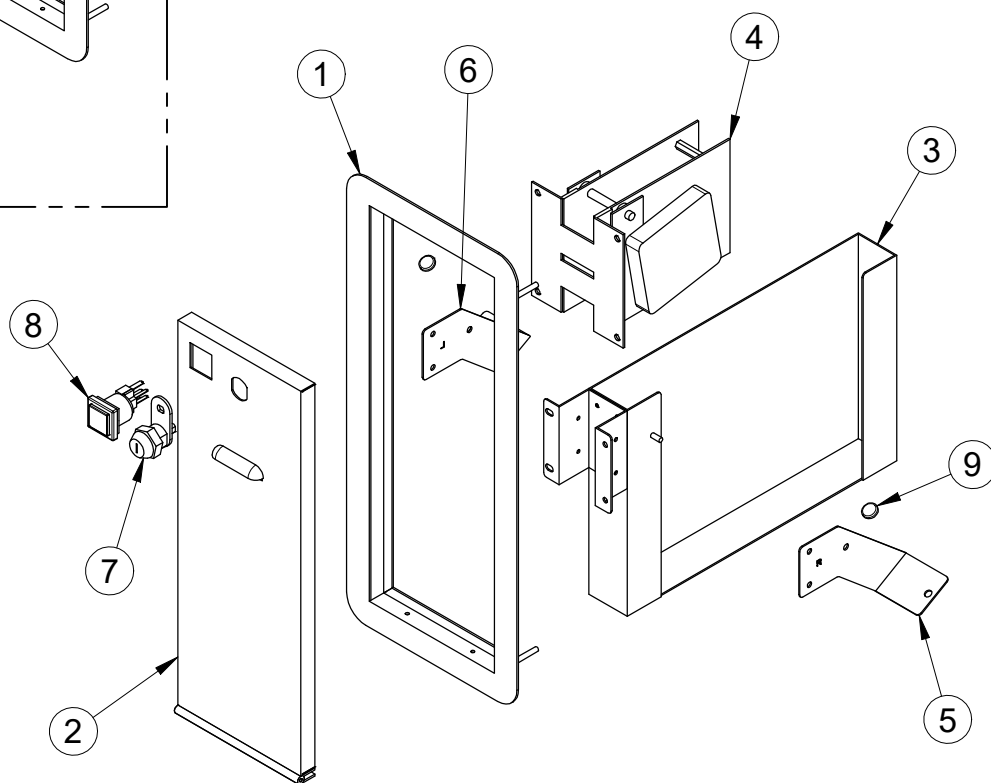
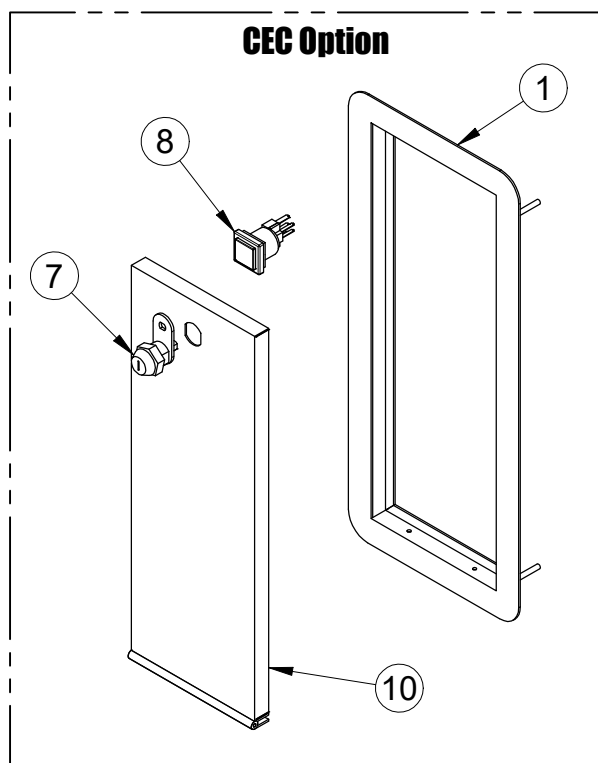
ATOW0ASM035



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
41	ATOW0A&S008	1	TOP CABINET SIDE LED COVER ACRYL-R1	LIGHT DIFFUSION PC-3.0t (광확산PC-3.0t)
42	ATOW0A&S010	1	TOP CABINET SIDE LED COVER ACRYL-R2	LIGHT DIFFUSION PC-3.0t (광확산PC-3.0t)
43	ATOW0A&S009	1	TOP CABINET SIDE LED COVER ACRYL-L1	LIGHT DIFFUSION PC-3.0t (광확산PC-3.0t)
44	ATOW0A&S011	1	TOP CABINET SIDE LED COVER ACRYL-L2	LIGHT DIFFUSION PC-3.0t (광확산PC-3.0t)
45	ACBD0BOA003	1	LED LINK BOARD (LOC AB/CD SEPARATION)	KMIO-1809-181B
46	ATOW0ASM034	1	TOWER BALL MAIN BOARD Ass'y	12-34 (40 page)
47	MTOW0WOO007	2	TOP CABINET BACK DOOR Ass'y	ASSEMBLE (조립품)

12-37.TICKET BOX Ass'y

AKOM0ASM010 (Standard)
AKOM0ASM011 (CEC Option)

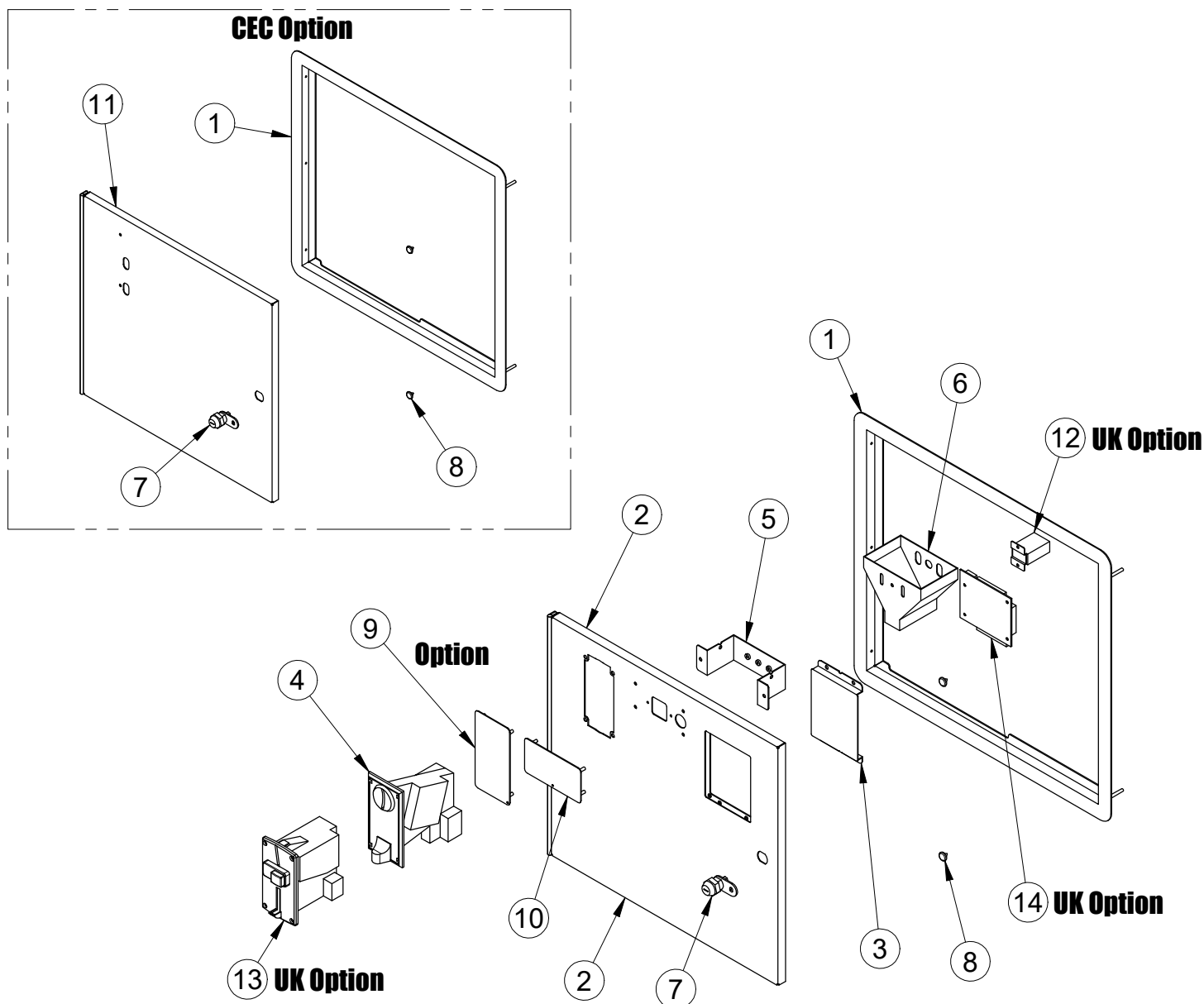


NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MKOM0MET026	1	TICKET DOOR COVER BKT	SPCC-1.6t
2	MKOM0MET027	1	TICKET DOOR WELD Ass'y	WELD Ass'y (용접품)
3	MKOM0MET028	1	TICKET BOX WELD Ass'y	WELD Ass'y (용접품)
4	MZZZ0TID003	1	TICKET DISPENSER	CLECO
5	MKOM0MET029	1	TICKET DOOR STOP BAR-R	SPCC-1.2t
6	MKOM0MET030	1	TICKET DOOR STOP BAR-L	SPCC-1.2t
7	MZZZ0KEY032	1	Key Ass'y (7001)	7001
8	MHA20000007	1	BUTTON Ass'y	AM1PB-26SH-R12D
9	MZZZ0RUB003	2	Φ6 SHOCK ABSORBER	6Φ
10	MKOM0MET025	1	TICKET DOOR WELD Ass'y (CEC)	WELD Ass'y (용접품)

12-38.FRONT DOOR Ass'y

ATOW0ASM036

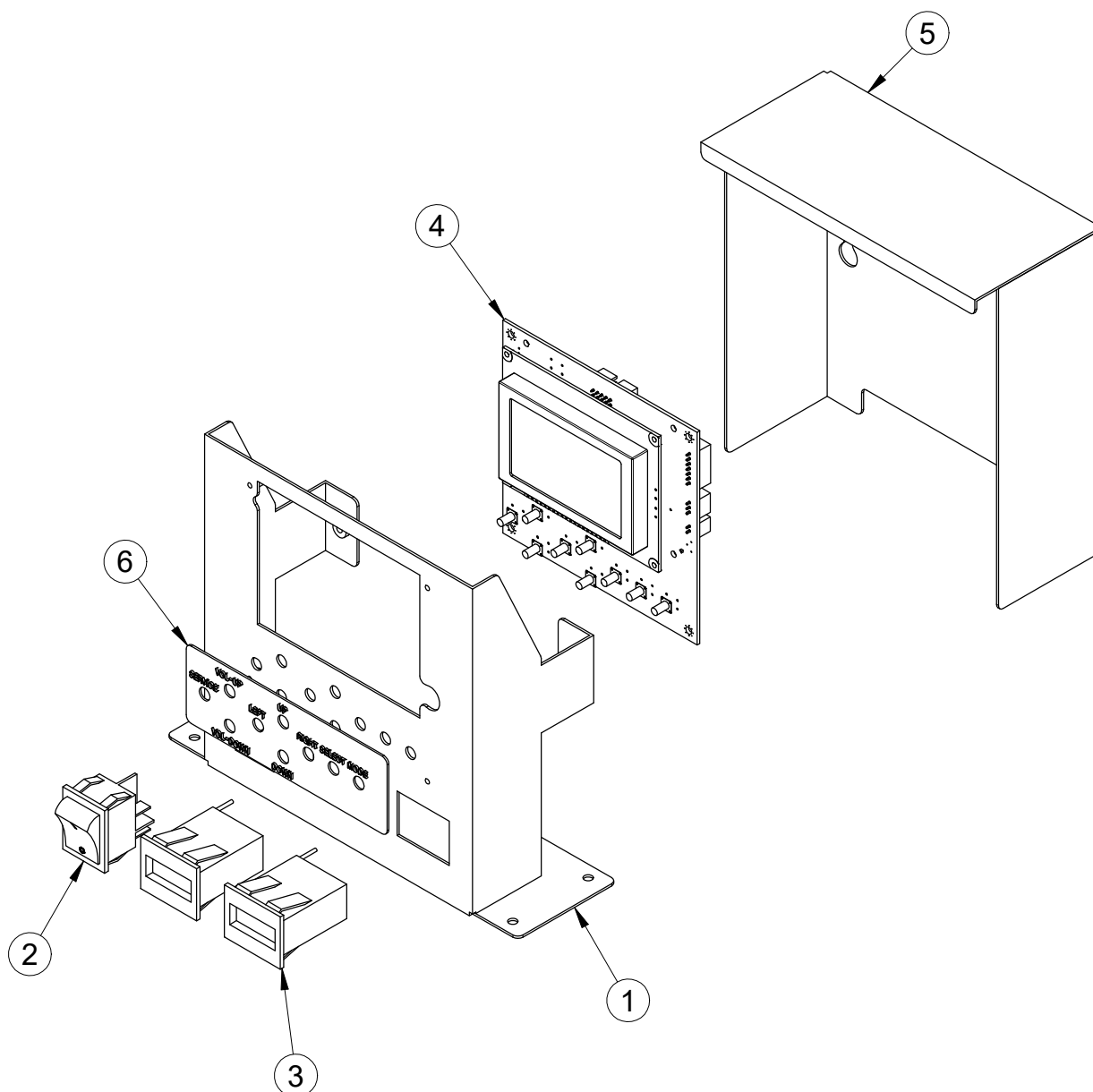
ATOW0ASM041



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET055	1	FRONT DOOR COVER BKT	SPCC-1.6t
2	MTOW0MET056	1	FRONT DOOR WELD Ass'y	WELD Ass'y (용접품)
3	MKOM0MET047	1	BILL PLUSE BKT	SPCC-1.2t
4	MZZZ0COS025	1	COIN SELECTOR(TONGLI)	TW-130Q
5	MKOM0MET049	1	COIN GUIDE FIX BKT	SPCC-1.2t
6	MKOM0MET062	1	COIN GUIDE BKT	SPCC-1.2t
7	MZZZ0KEY032	1	Key Ass'y (7001)	7001
8	MZZZ0RUB003	2	Φ6 SHOCK ABSORBER	6Φ
9	MKOM0MET048	1	COIN PLUSE BKT	SPCC-1.2t
10	MKOM0MET056	1	CARD SWIPE COVER BKT	SPCC-1.2t
11	MTOW0MET063	1	FRONT DOOR WELD Ass'y (CEC)	WELD Ass'y (용접품)
12	MZZZ0000488	1	COUNTER UK (SR3)	(UK OPTION)
13	MZZZ0000486	1	SR3-MONEY CTRL(UK)	(UK OPTION)
14	MZZZ0000489	1	EXCEL CREDIT(SR3) PCB	(UK OPTION)

12-39.CONTROL PANEL Ass'y

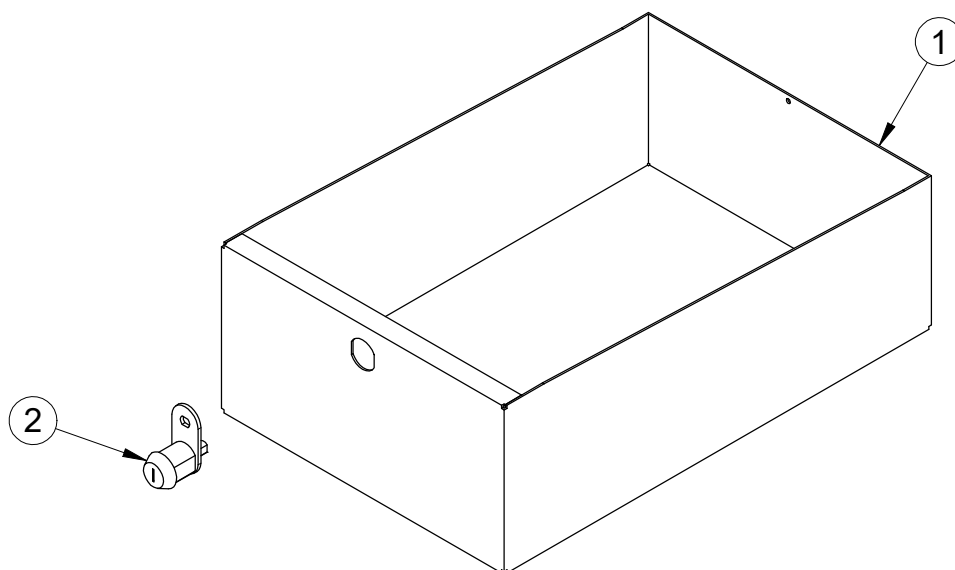
AKOM0ASM003



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MKOM0MET006	1	CONTROL PANEL BKT	GI-1.2t
2	MELE0SWI004	1	ROCKER SWITCH	RL2-321/N-C-RE/BK-P2(B)
3	MZZZ0COU001	2	COUNTER	COA126/12V/SPEED 18CPS
4	AMAR0BOA016	1	SETUP LCD BOARD Ass'y	KMLCD-1606-116A SETUP + MELE0LCB001 LCD
5	MKOM0MET007	1	CONTROL PANEL COVER BKT	GI-1.2t
6	MKOM0SSH001	1	CONTROL PANEL SHEET	SHEET

12-40.CASH BOX Ass'y

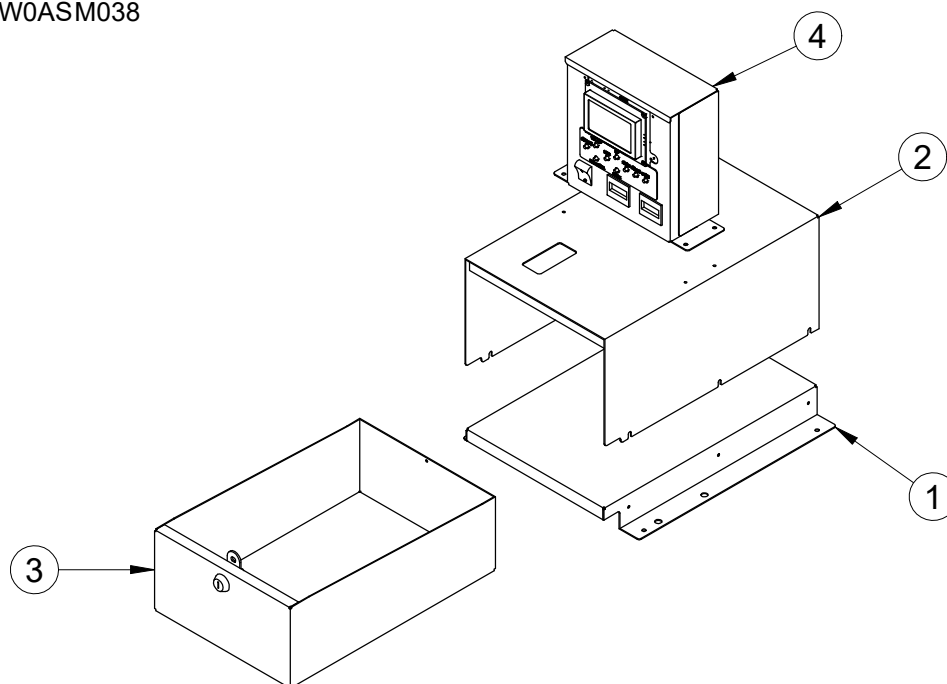
ATOW0ASM037



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET059	1	CASH BOX	SPCC-1.2t
2	MZZZ0KEY013	1	KEY ASS'Y	6001

12-41.CASH BOX BODY Ass'y

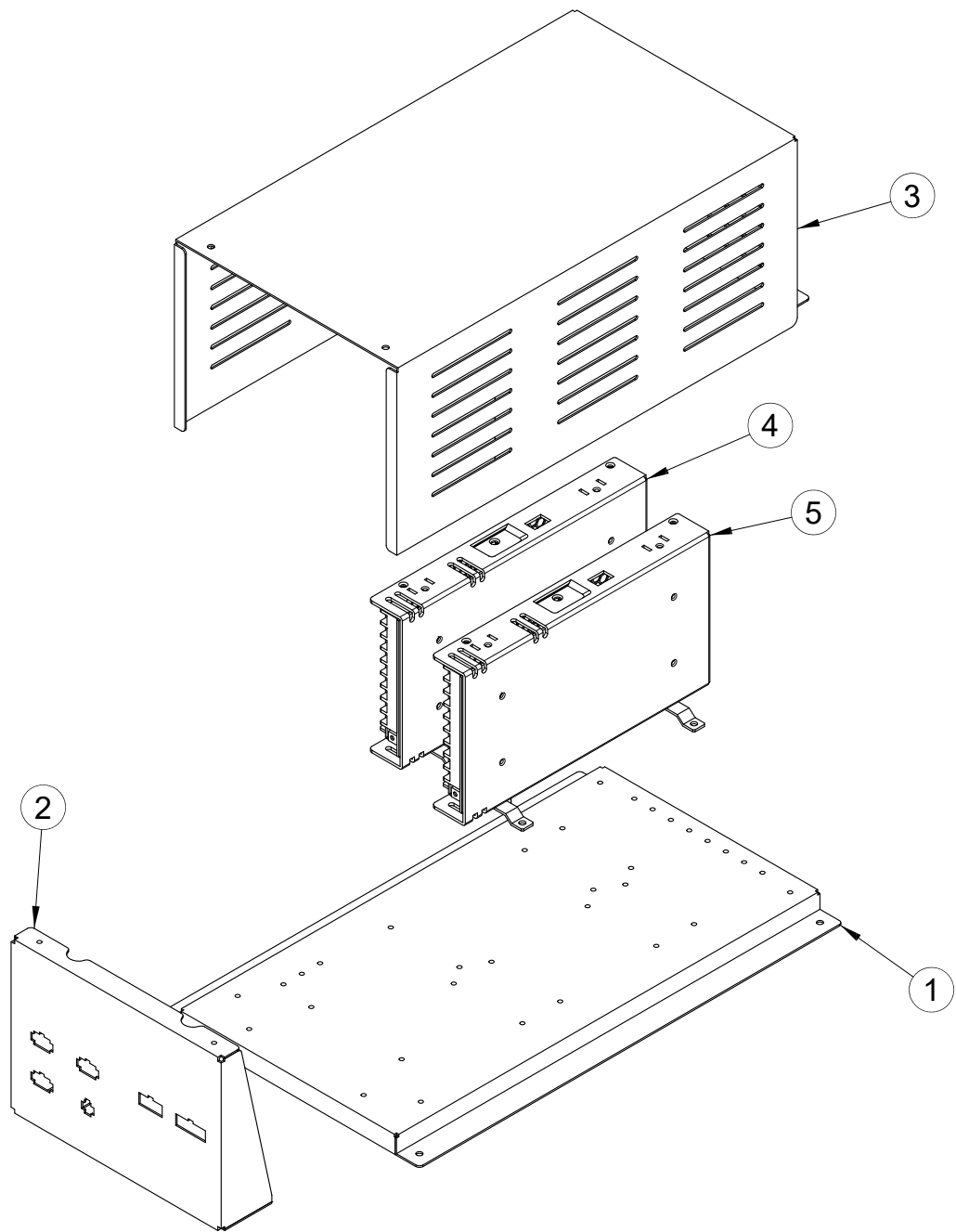
ATOW0ASM038



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0MET057	1	CASH BOX BODY BOTTOM	SPCC-1.2t
2	MTOW0MET058	1	CASH BOX BODY COVER WELD Ass'y	WELD Ass'y (용접품)
3	ATOW0ASM037	1	CASH BOX Ass'y	12-40 (45 page)
4	AKOM0ASM003	1	CONTROL PANEL Ass'y	12-39 (44 page)

12-42.POWER SMPS Ass'y (MATRIX TYPE)

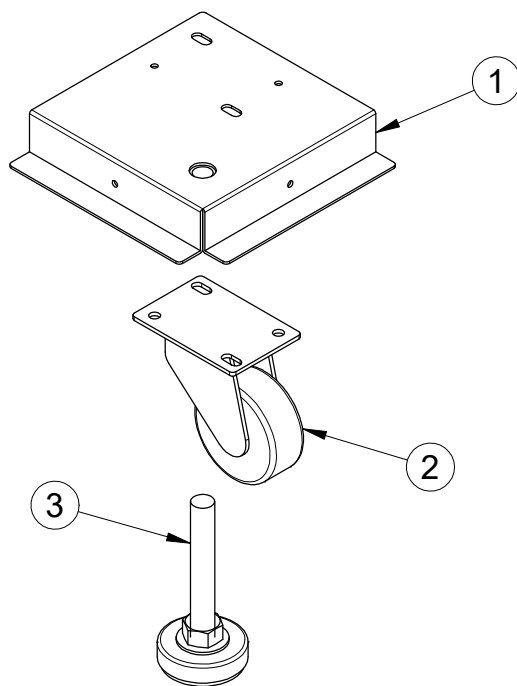
AKOM0ASM017



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MKOM0MET003	1	POWER SMPS BASE BKT	GI-1.2t
2	MKOM0MET058	1	POWER SMPS CONNECTOR BKT (MATRIX TYPE)	GI-1.2t
3	MKOM0MET005	1	SMPS COVER BKT	GI-1.2t
4	MELE0SMP047	1	POWER SMPS 5V (LRS-200-5)	100~240V/5V-40A
	MELE0SMP050		POWER-SMPS(LM200-10B05)	100/240V,5V30A 150W
5	MELE0SMP046	1	POWER SMPS 12V (LRS-200-12)	100~240V/12V-17A
	MELE0SMP054		POWER-SMPS(LM200-10B12)	100/240V,12V17A 204W

12-43.CASTER Ass'y-L

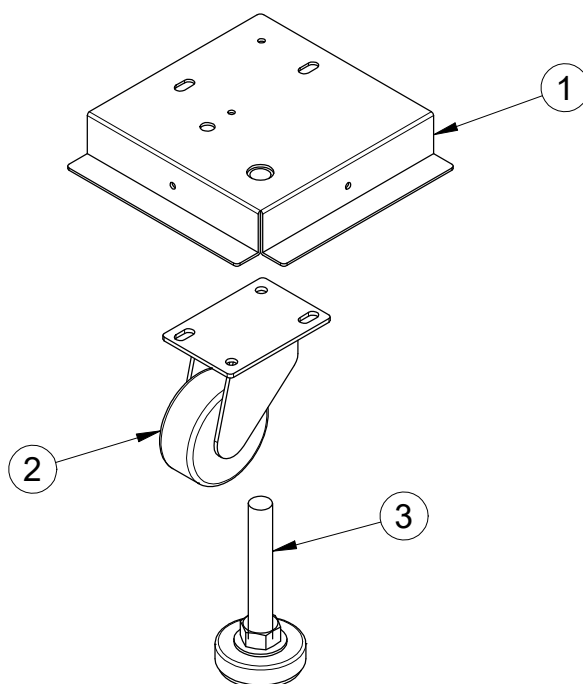
AKOM0ASM014



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MKOM0WOO001	1	CASTER BKT WELD Ass'y-L	WELD PARTS (용접품)
2	MZZZ0CAS010	1	CASTER	3021-W-BR (3inch)
3	MZZZ0ADJ001	1	ADJUSTER (PV-100-60)	(PV-100-60)

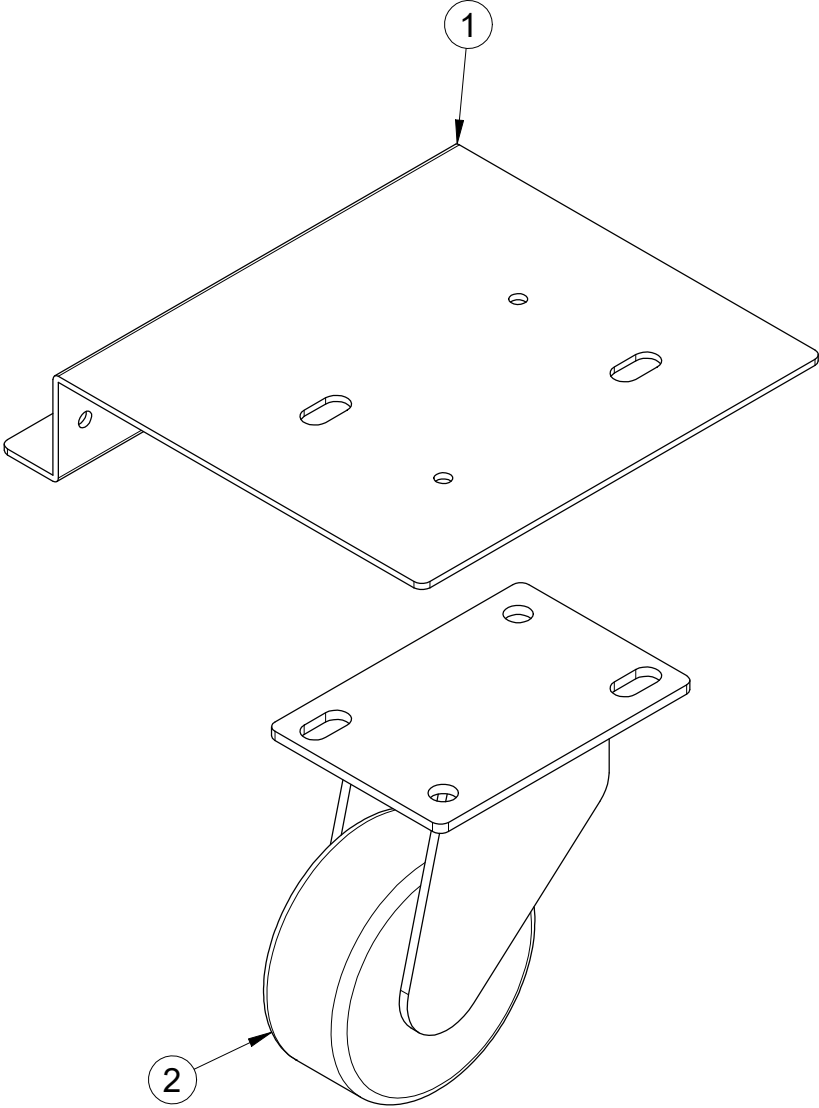
12-44.CASTER Ass'y-R

AKOM0ASM015



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MKOM0WOO002	1	CASTER BKT WELD Ass'y-R	WELD PARTS (용접품)
2	MZZZ0CAS010	1	CASTER	3021-W-BR (3inch)
3	MZZZ0ADJ001	1	ADJUSTER (PV-100-60)	(PV-100-60)

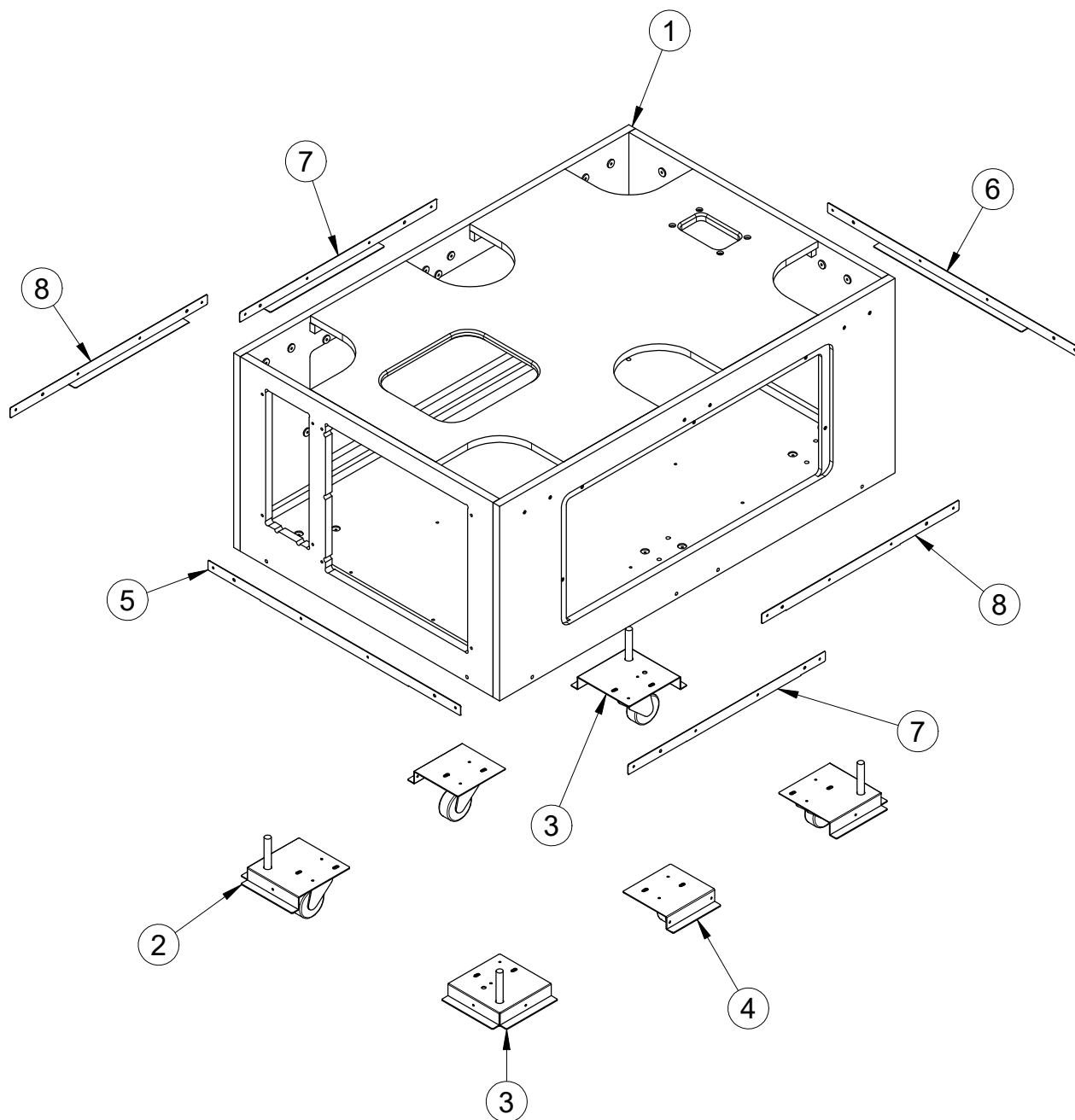
12-45.MIDDLE CASTER Ass'y
AKOM0ASM016



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MKOM0WOO003	1	MIDDLE CASTER BKT	SPCC-2.0t
2	MZZZ0CAS010	1	CASTER	3021-W-BR (3inch)

12-46.BOTTOM CABINET Ass'y

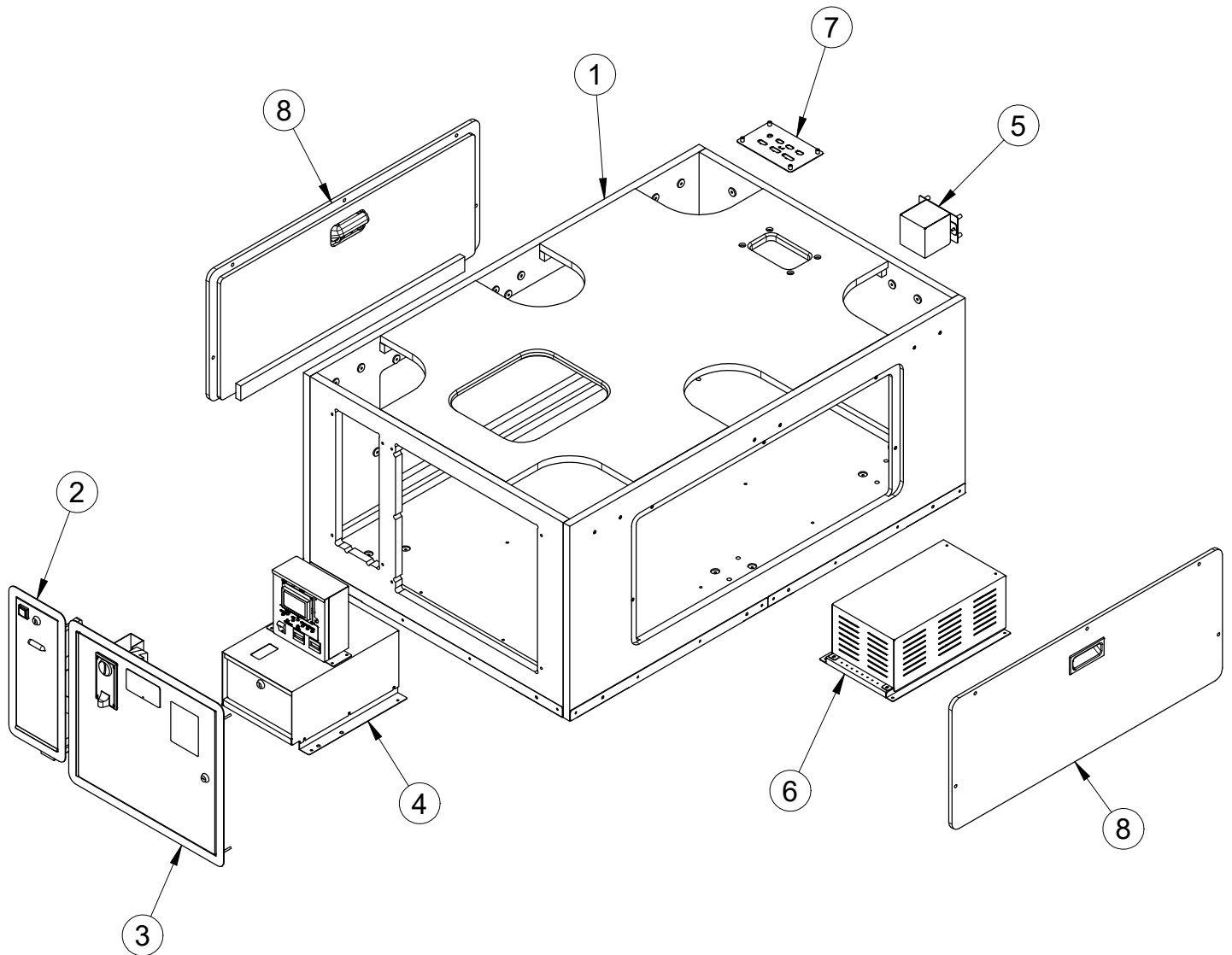
ATOW0ASM039



NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	MTOW0WOO001	1	BOTTOM WOOD CABINET Ass'y	ASSEMBLE (조립품)
2	AKOM0ASM014	2	CASTER Ass'y-L	12-43 (47 page)
3	AKOM0ASM015	2	CASTER Ass'y-R	12-44 (47 page)
4	AKOM0ASM016	2	MIDDLE CASTER Ass'y	12-45 (48 page)
5	MTOW0WOO008	1	BOTTOM CABINET FRONT LOWER BKT	SPCC-1.2t
6	MTOW0WOO009	1	BOTTOM CABINET BACK LOWER BKT	SPCC-1.2t
7	MTOW0WOO010	2	BOTTOM CABINET SIDE LOWER BKT-R	SPCC-1.2t
8	MTOW0WOO011	2	BOTTOM CABINET SIDE LOWER BKT-L	SPCC-1.2t

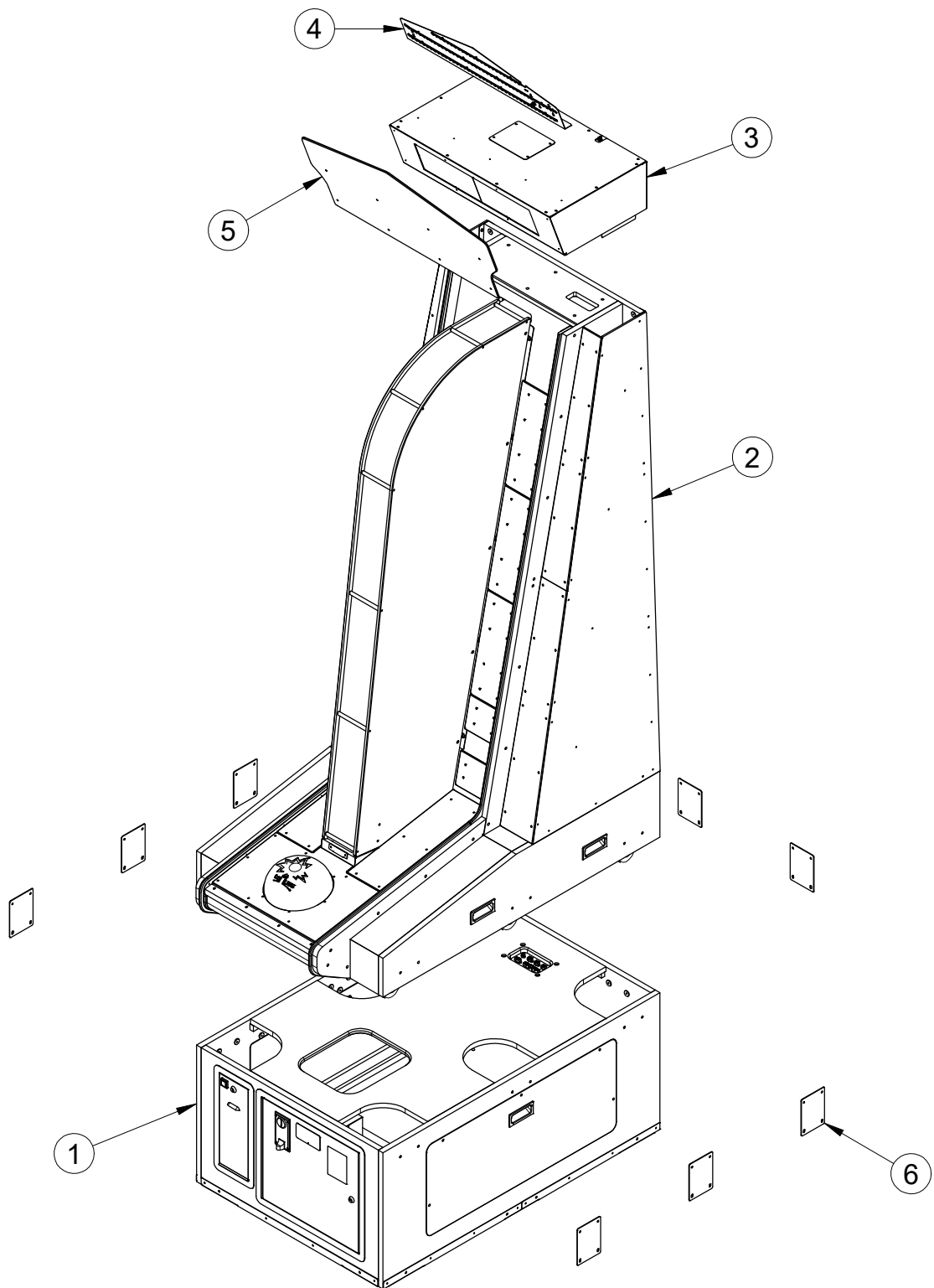
12-47.BOTTOM CASE Ass'y

ATOW0ASM040

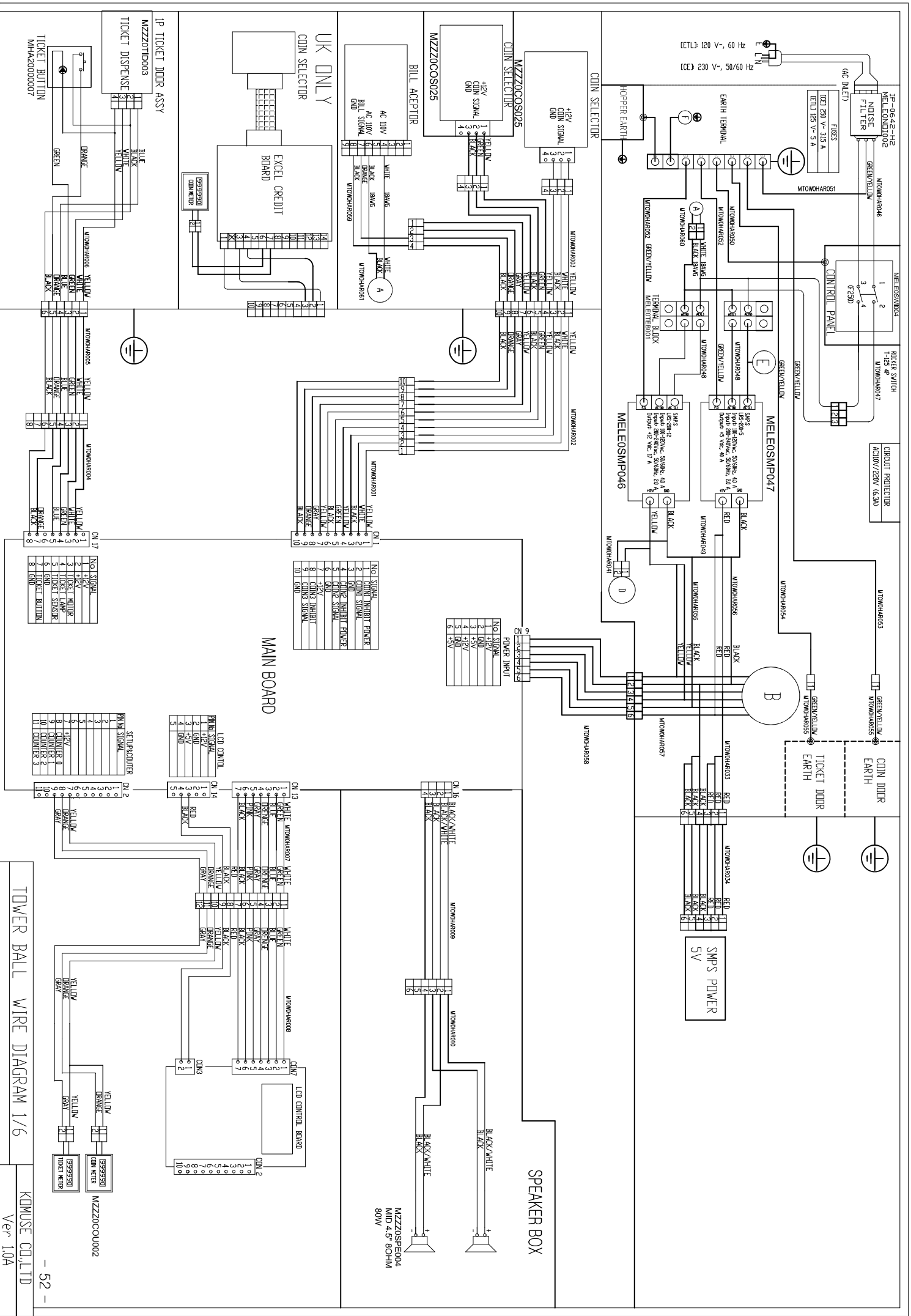


NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	ATOW0ASM039	1	BOTTOM CABINET Ass'y	12-46 (49 page)
2	AKOM0ASM010	1	TICKET BOX Ass'y	12-37 (42 page)
3	ATOW0ASM036	1	FRONT DOOR Ass'y	12-38 (43 page)
4	ATOW0ASM038	1	CASH BOX BODY Ass'y	12-41 (45 page)
5	AKOM0ASM001	1	NOISE FILTER Ass'y	12-35 (40 page)
6	AKOM0ASM017	1	POWER SMPS Ass'y (MATRIX TYPE)	12-42 (46 page)
7	MTOW0MET061	1	CONNECTOR BKT-6,8,10,12P	GI-1.2t
8	MTOW0WOO006	2	BOTTOM CABINET SIDE DOOR Ass'y	ASSEMBLE (조립품)

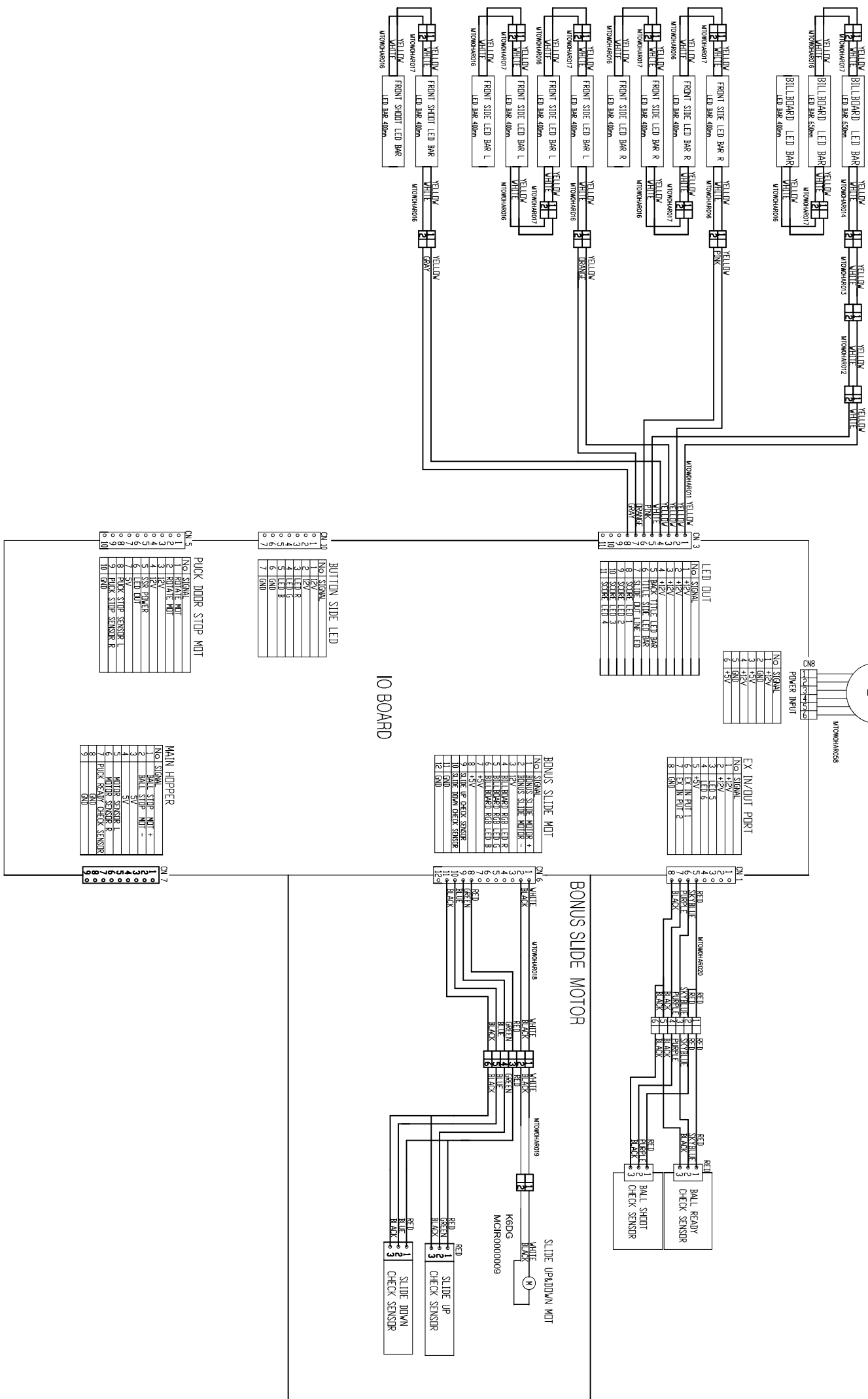
12-48. ASSEMBLING TOWER BALL ALL FIX Ass'y



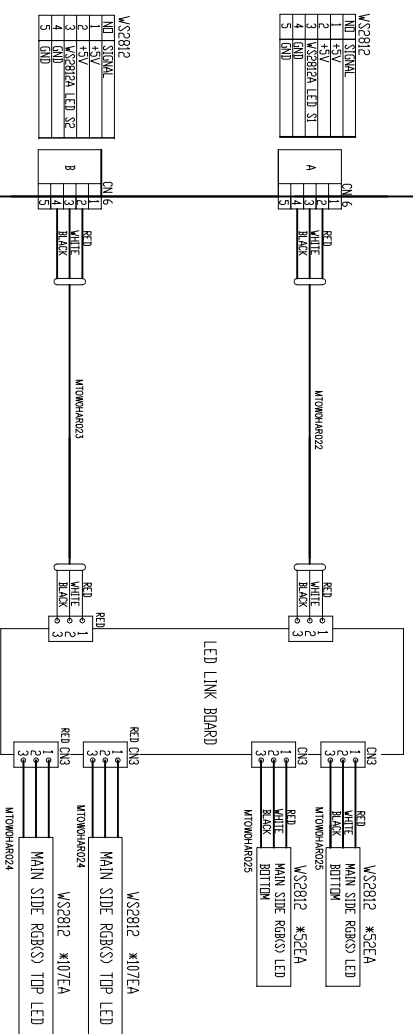
NO.	PART NO.	QUANTITY	PART NAME	SPEC.
1	ATOW0ASM040	1	BOTTOM CASE Ass'y	12-47 (50 page)
2	ATOW0ASM035	1	TOP CASE Ass'y	12-36 (41 page)
3	ATOW0ASM003	1	TOP BILLBOARD BOX Ass'y	12-3 (20 page)
4	ATOW0ASM001	1	TOP BILLBOARD BACK LIGHTING Ass'y	12-1 (19 page)
5	ATOW0A&S001	1	TOP BILLBOARD TITLE ACRYL	CLEAR ACRYL - 4.5t (투명 압출판 아크릴)
6	MTOW0MET060	8	CABINET FIXED BKT	SPCC-2.0t



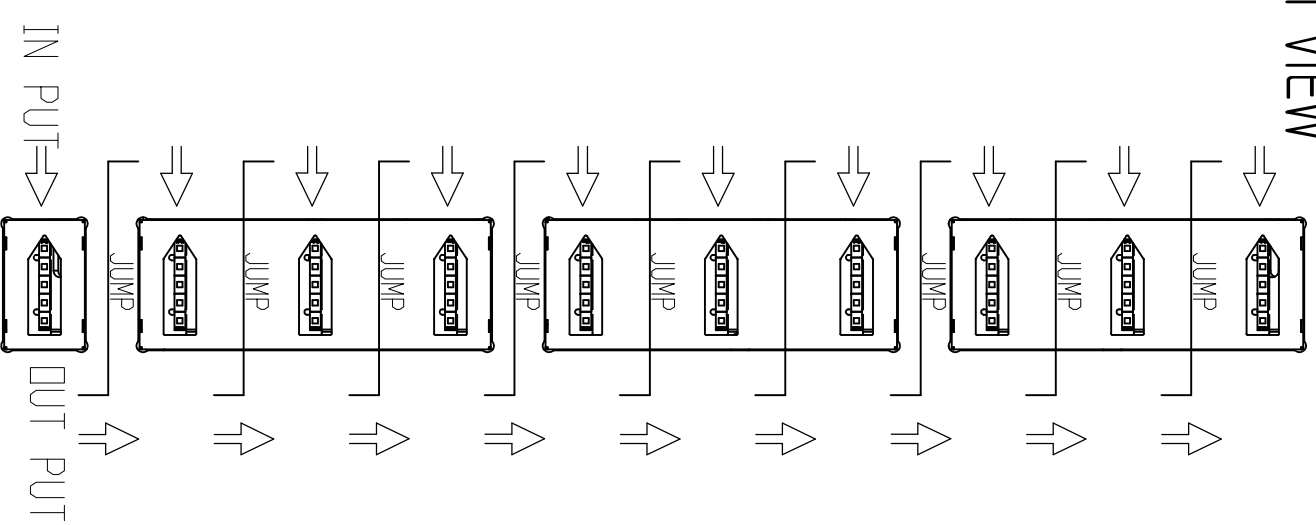
BILLBOARD LED BAR



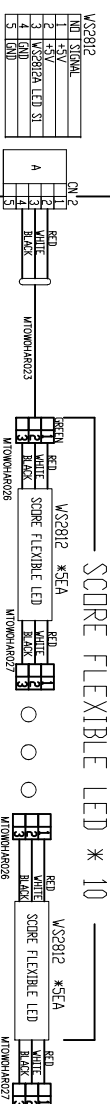
MAIN BOARD



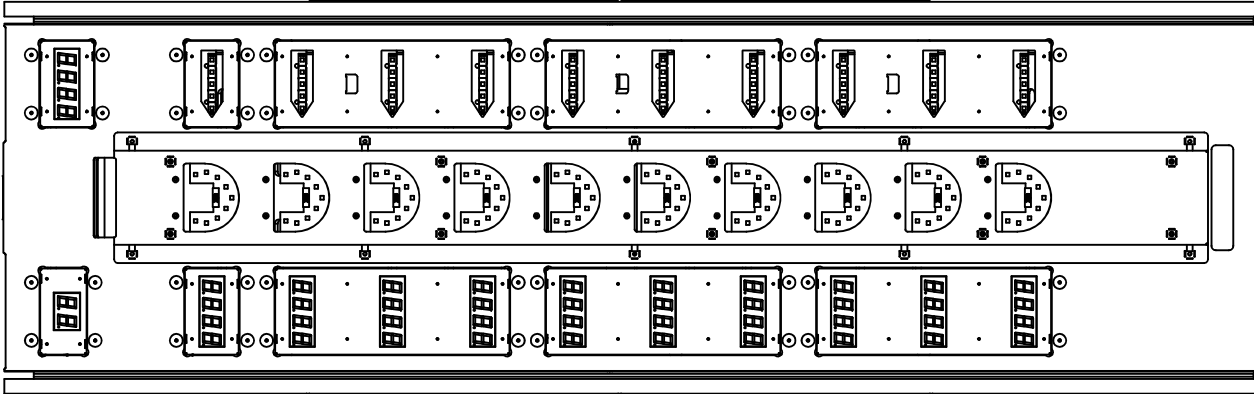
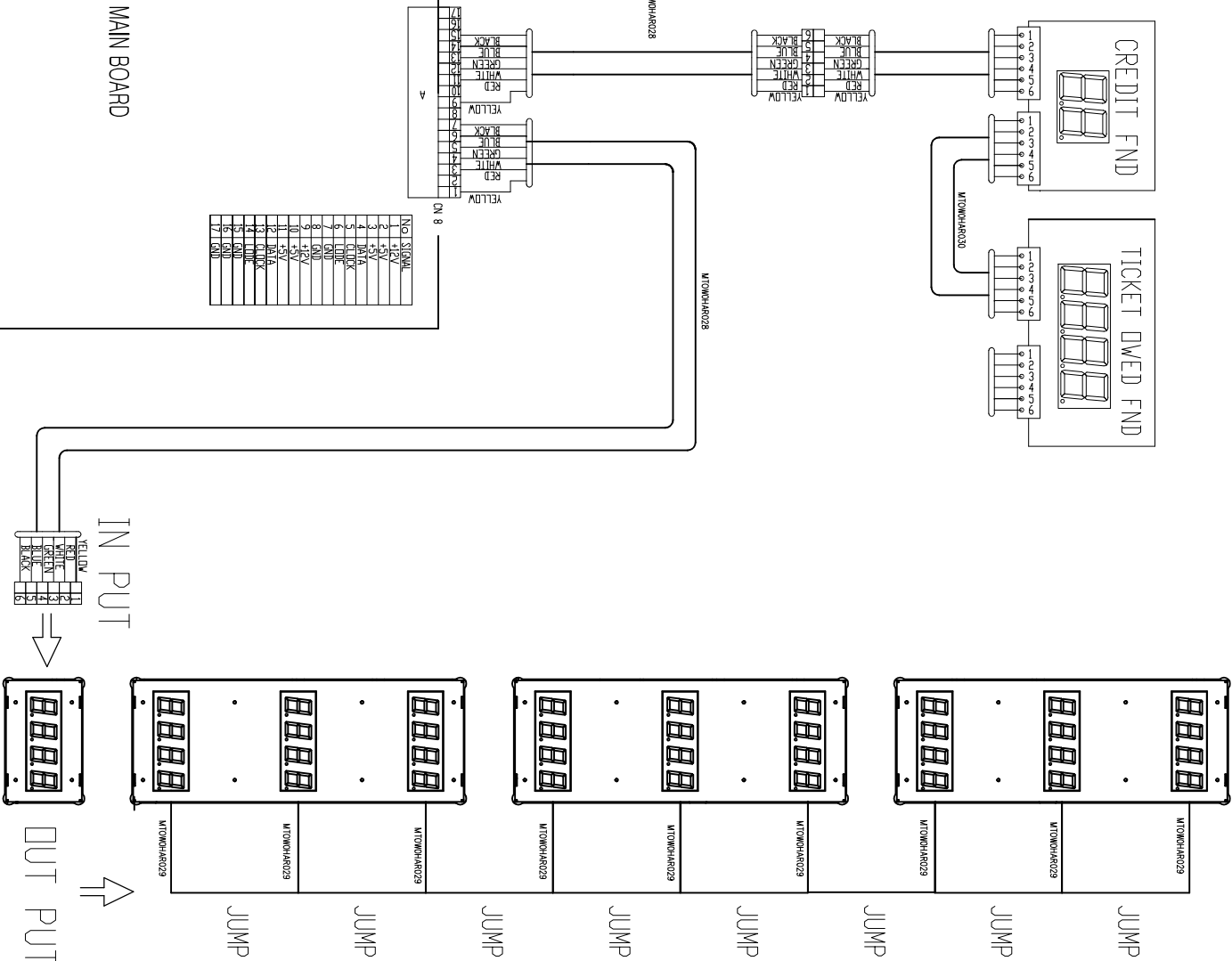
FRONT VIEW



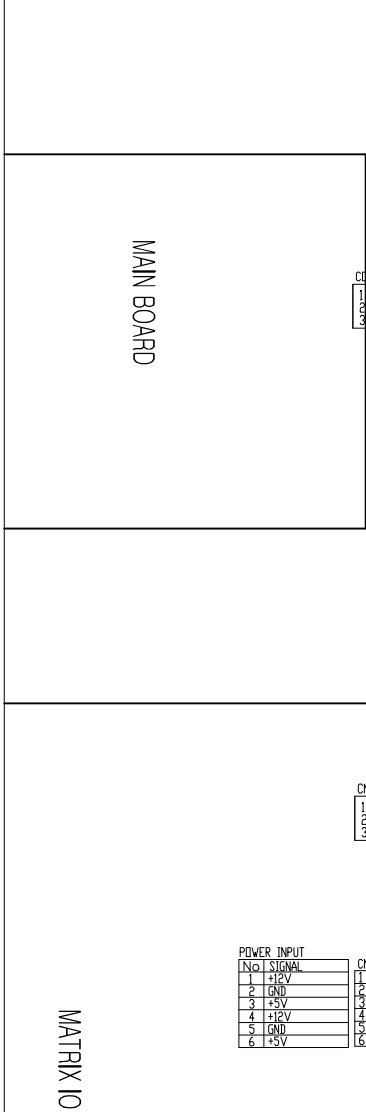
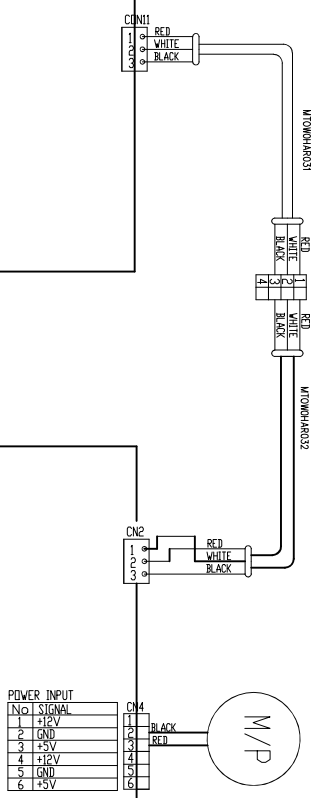
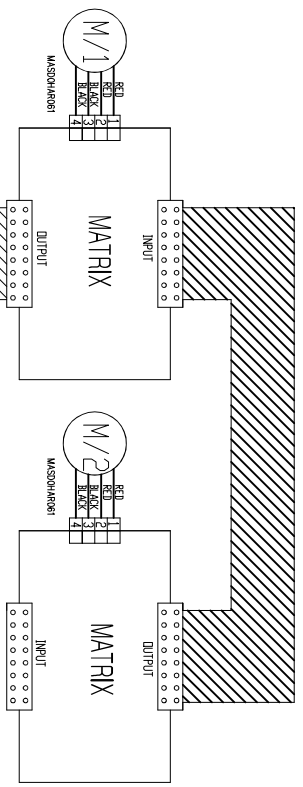
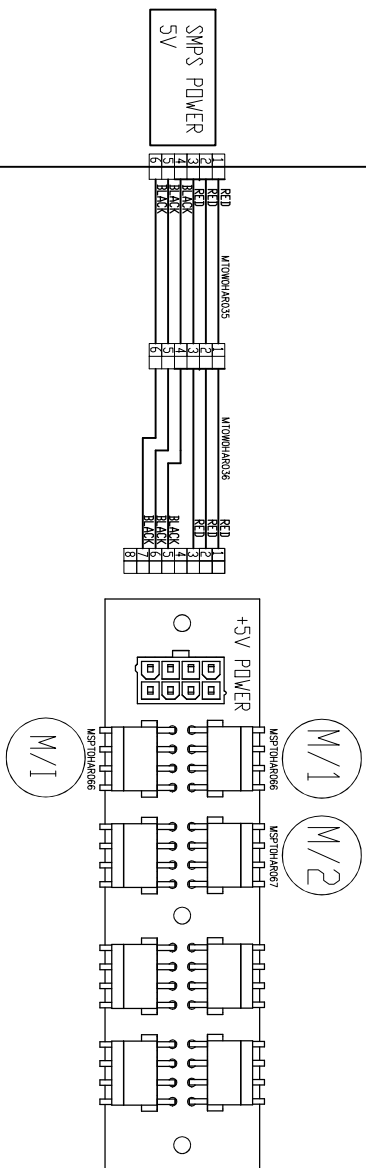
IO BOARD



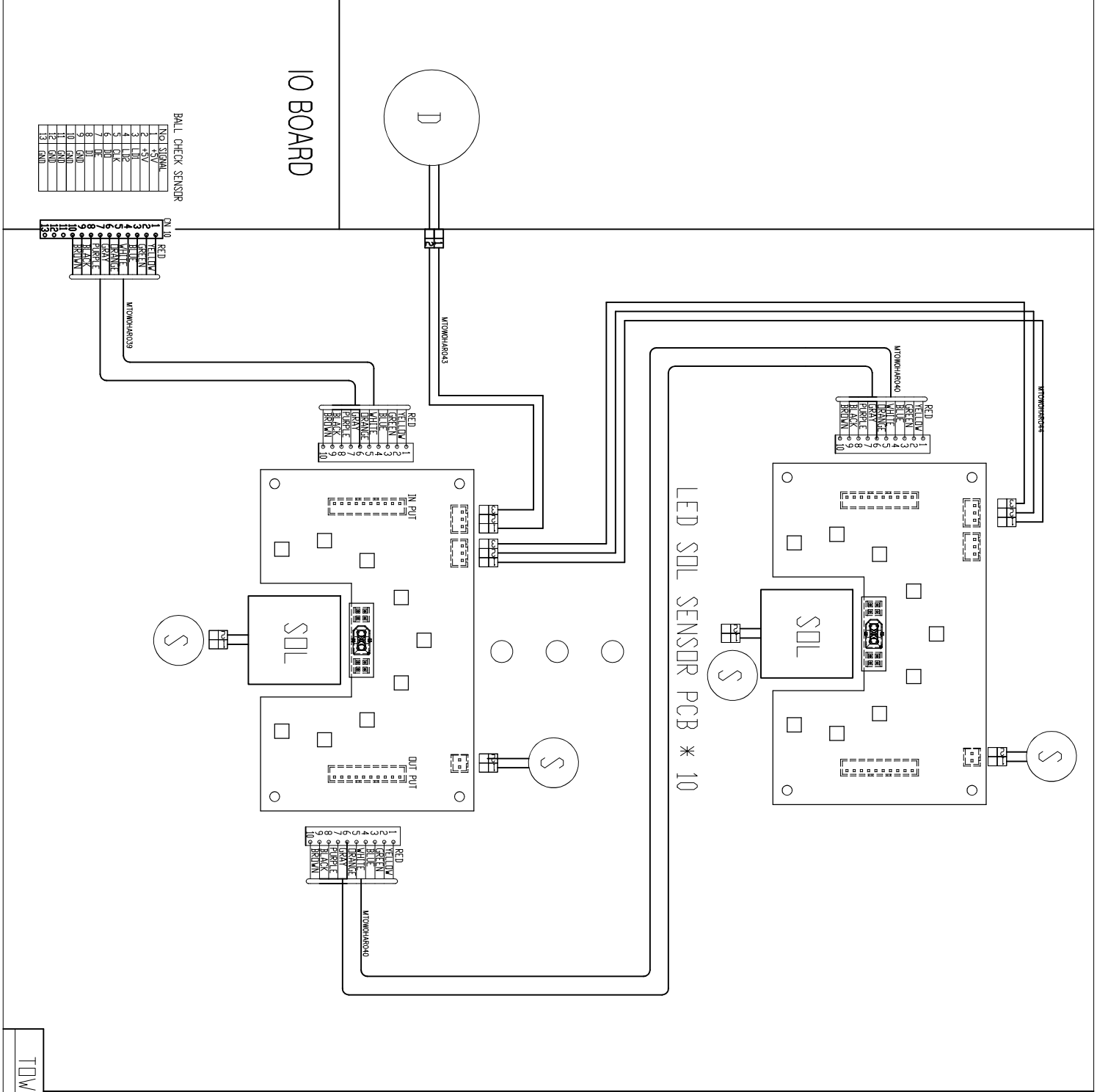
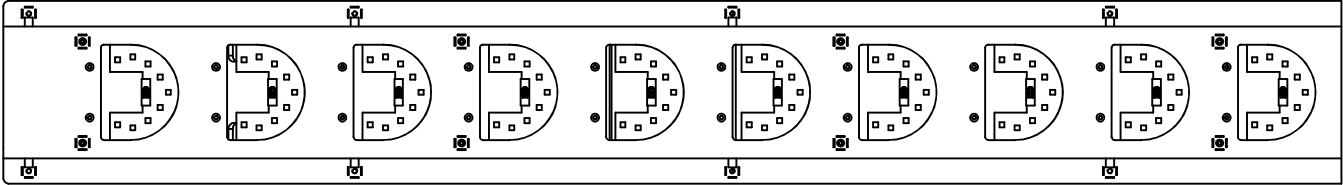
FRONT VIEW



MATRIX ASS'Y



FRONT VIEW



BALL CHECK SENSOR

1	NO SIGNAL
2	+5V
3	10K
4	10K
5	10K
6	10K
7	10K
8	10K
9	10K
10	10K
11	10K
12	10K
13	10K

TOWER BALL



2026.01.20

TOWER BALL SHEET BOM

IMAGE		NAME	QUANTITY	METERIAL	CDDE NO.
1		TOP BILLBOARD TITLE ACRYL	1 EA	Silk screen	ATOW0A&S001
2		TOP CABINET SIDE LED COVER ACRYL-L1	1 EA	Silk screen	ATOW0A&S009
3		TOP CABINET SIDE LED COVER ACRYL-R1	1 EA	Silk screen	ATOW0A&S008
4		TOP CABINET SIDE LED COVER ACRYL-L2	1 EA	Silk screen	ATOW0A&S011
5		TOP CABINET SIDE LED COVER ACRYL-R2	1 EA	Silk screen	ATOW0A&S010
6		SCORE FND BASE BKT-A COVER ACRYL	3 EA	Silk screen	ATOW0A&S002
7		SCORE FND BASE BKT-B COVER ACRYL	1 EA	Silk screen	ATOW0A&S003
8		SCORE FND BASE BKT-C COVER ACRYL	3 EA	Silk screen	ATOW0A&S004
9		SCORE FND BASE BKT-D COVER ACRYL	1EA	Silk screen	ATOW0A&S005

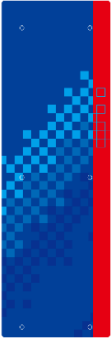
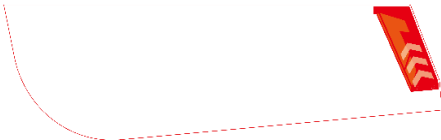
IMAGE		NAME	QUANTITY	METERIAL	CDDE NO.
10		TICKET OWED COVER ACRYL	1 EA	Silk screen	ATOW0A&S007
11		CREDIT FND COVER ACRYL	1EA	Silk screen	ATOW0A&S006
12		PUSHER PANEL COVER ACRYL-A	1 EA	Silk screen	ATOW0A&S012
13		PUSHER PANEL COVER ACRYL-B	1 EA	Silk screen	ATOW0A&S013
14		PUSHER PANEL COVER ACRYL-C	1 EA	Silk screen	ATOW0A&S014
15		BALL RAIL SIDE GUIDE ACRYL-L	1 EA	SHEET Silk screen	ATOW0A&S016
16		BALL RAIL SIDE GUIDE ACRYL-R	1 EA	SHEET Silk screen	ATOW0A&S015
		—59—			A4(210*297)

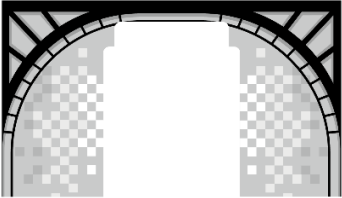
IMAGE		NAME	QUANTITY	METERIAL	CDDE NO.
17		TOP CABINET SIDE FOMEX-L	1 EA	SHEET Silk screen	ATOW0A&S018
18		TOP CABINET SIDE FOMEX-R	1 EA	SHEET Silk screen	ATOW0A&S017
19		FRONT PANEL UPPER SHEET	1 EA	Sheet Silk screen	MTOW0SHE002
20		FRONT PANEL MIDDLE SHEET-L	1 EA	Sheet Silk screen	MTOW0SHE003
21		FRONT PANEL MIDDLE SHEET-R	1 EA	SHEET Silk screen	MTOW0SHE004
—60—  A4(210*297)					

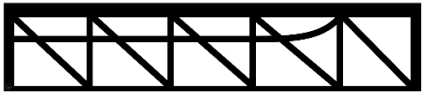
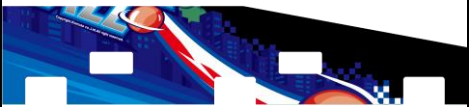
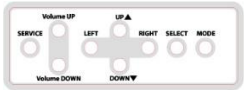
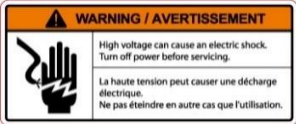
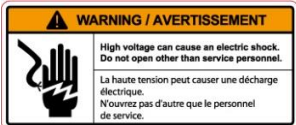
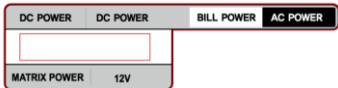
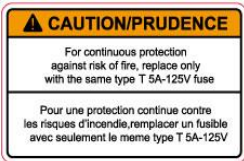
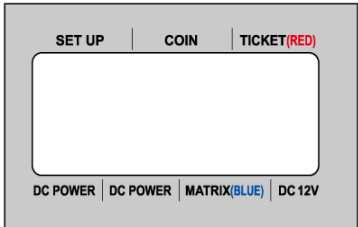
IMAGE		NAME	QUANTITY	METERIAL	CDDE NO.
22		FRONT UNDER SHEET-L	1 EA	SHEET Silk screen	MTOW0SHE005
23		FRONT UNDER SHEET-R	1 EA	SHEET Silk screen	MTOW0SHE006
24		TOP CABINET FRONT COVER SHEET	1 EA	SHEET Silk screen	MTOW0SHE007
25		FRONT SHEET	1 EA	SHEET Silk screen	MTOW0SHE008
26		FRONT DOOR SHEET	1EA	SHEET Silk screen	MTOW0SHE009
27		TICKET DOOR SHEET	1 EA	SHEET Silk screen	MTOW0SHE010
28		MIDDLE CABINET SIDE SHEET- L	1 EA	SHEET Silk screen	MTOW0SHE015
29		BOTTOM CABINET SIDE SHEET FRONT-L	1 EA	SHEET Silk screen	MTOW0SHE017
30		BOTTOM CABINET SIDE SHEET BACK-L	1 EA	SHEET Silk screen	MTOW0SHE018
31		SIDE DOOR SHEET -L	1 EA	SHEET Silk screen	MTOW0SHE016
—61—  A4(210*297)					

IMAGE		NAME	QUANTITY	METERIAL	CDDE NO.
32		CABINET SIDE L6 BKT SHEET	1EA	SHEET Silk screen	MTOW0SHE022
33		CABINET SIDE L7 BKT SHEET	1EA	SHEET Silk screen	MTOW0SHE023
34		CABINET SIDE L8 BKT SHEET	1EA	SHEET Silk screen	MTOW0SHE024
35		MIDDLE CABINET SIDE SHEET- R	1EA	SHEET Silk screen	MTOW0SHE011
36		BOTTOM CABINET SIDE SHEET FRONT-R	1 EA	SHEET Silk screen	MTOW0SHE013
37		BOTTOM CABINET SIDE SHEET BACK-R	1 EA	SHEET Silk screen	MTOW0SHE014
38		SIDE DOOR SHEET -R	1 EA	SHEET Silk screen	MTOW0SHE012
39		CABINET SIDE R6 BKT SHEET	1 EA	SHEET Silk screen	MTOW0SHE019
40		CABINET SIDE R7 BKT SHEET	1 EA	SHEET Silk screen	MTOW0SHE020
41		CABINET SIDE R8 BKT SHEET	1 EA	SHEET Silk screen	MTOW0SHE021
—62—  A4(210*297)					

	IMAGE	NAME	QUANTITY	METERIAL	CDDE NO.
42		CONTROL PANEL SHEET	1 EA	SHEET Silk screen	MKOM0SSH001
43		WARNING HIGH VOLTAGE SHEET	2 EA	SHEET Silk screen	MKOM0SSH003
44		ONLY SERVICE PERSONNEL SHEET	2EA	SHEET Silk screen	MKOM0SSH004
45		CAUTION FINGER SHEET	1EA	SHEET Silk screen	MKOM0SSH006
46		WARNING HIGH VOLTAGE SHEET	1 EA	SHEET Silk screen	MKOM0SSH018
47		GROUNDRING SHEET	2 EA	SHEET Silk screen	MKOM0SSH028
48		CONTROL PANEL POWER SHEET	1EA	SHEET Silk screen	MKOM0SSH050
49		SMPS CONNECTOR SHEET-MATRIX TYPE	1EA	SHEET Silk screen	MKOM0SSH053
50		CAUTION FUSE T 5A-125V SHEET	1EA	SHEET Silk screen	MKOM0SSH044
51		BOTTOM CONNECTOR BKT SHEET	1EA	SHEET Silk screen	MTOW0SHE025
	—63— 				A4(210*297)

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