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PRECAUTIONS FOR USE

Setting Up

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:

1. Rain or moisture.
 2. Direct sunlight.
 3. Direct heat from air-conditioning and heating equipment, etc..
 4. 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


Inspection and cleaning


⚠ 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.

Moving and transportation

⚠ 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.

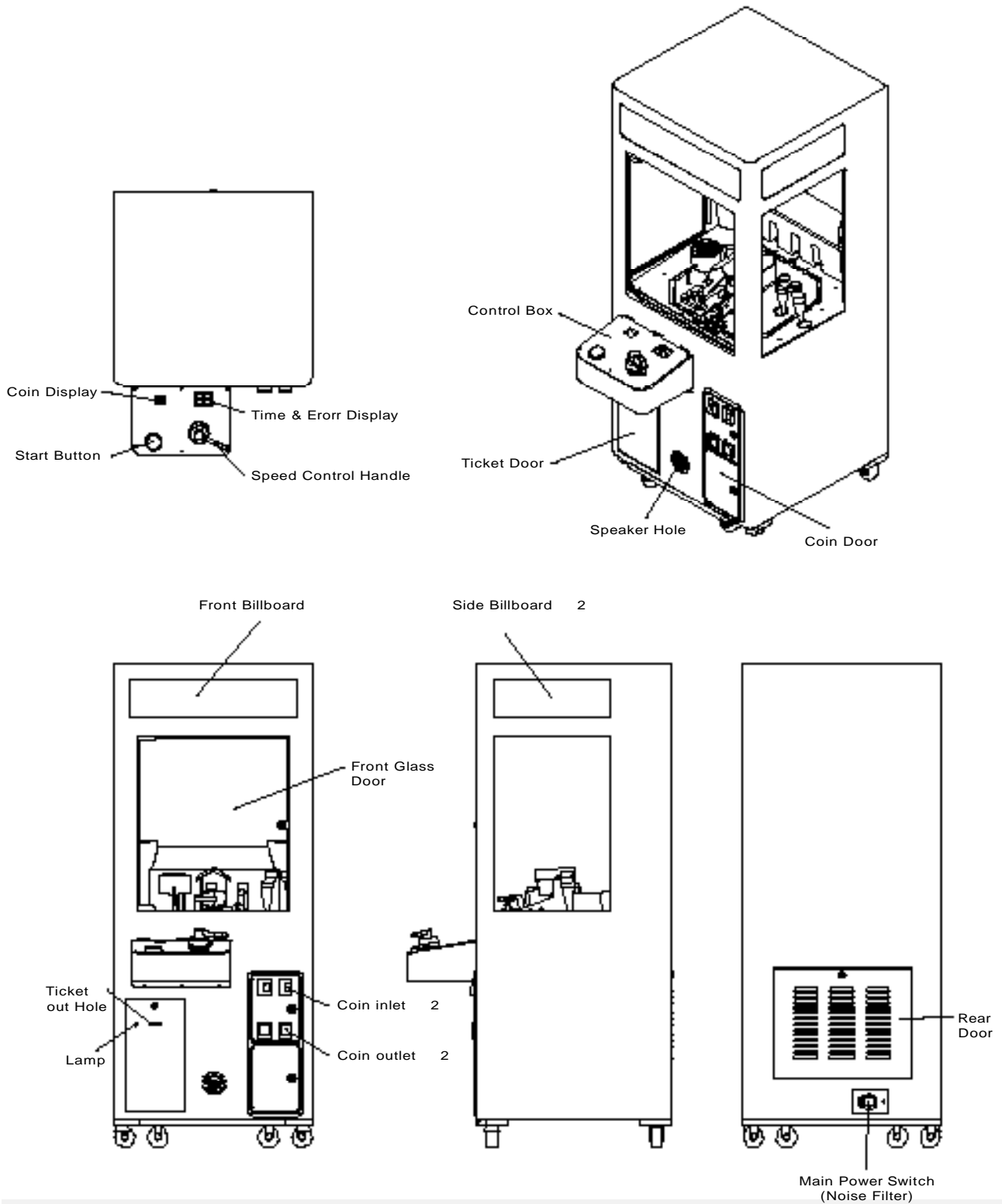
Avoid excessive force while moving the machine.

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, etc., be sure to give this manual to the new owner.

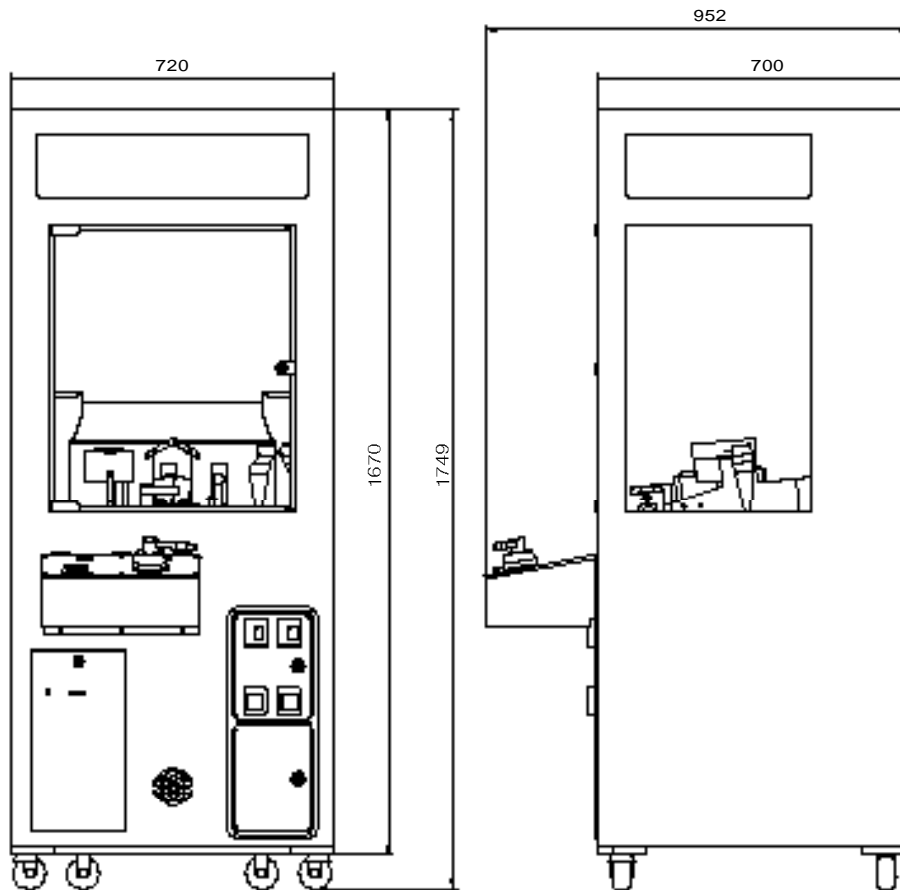
1. Name and Function of Parts

1-1. External parts



2. Specifications & Dimensions

2-1. Dimensions



2-2. Specifications

1. Power : AC 100V,50~60Hz
2. Consumption : 150W
3. Dimension : 720(W) × 952(D) × 1749(H)[mm]
4. Weight : 158[kg]

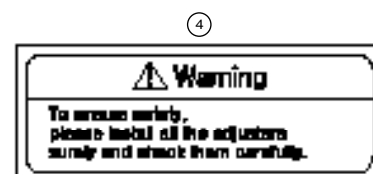
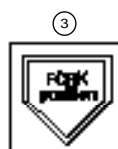
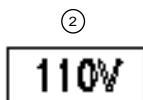
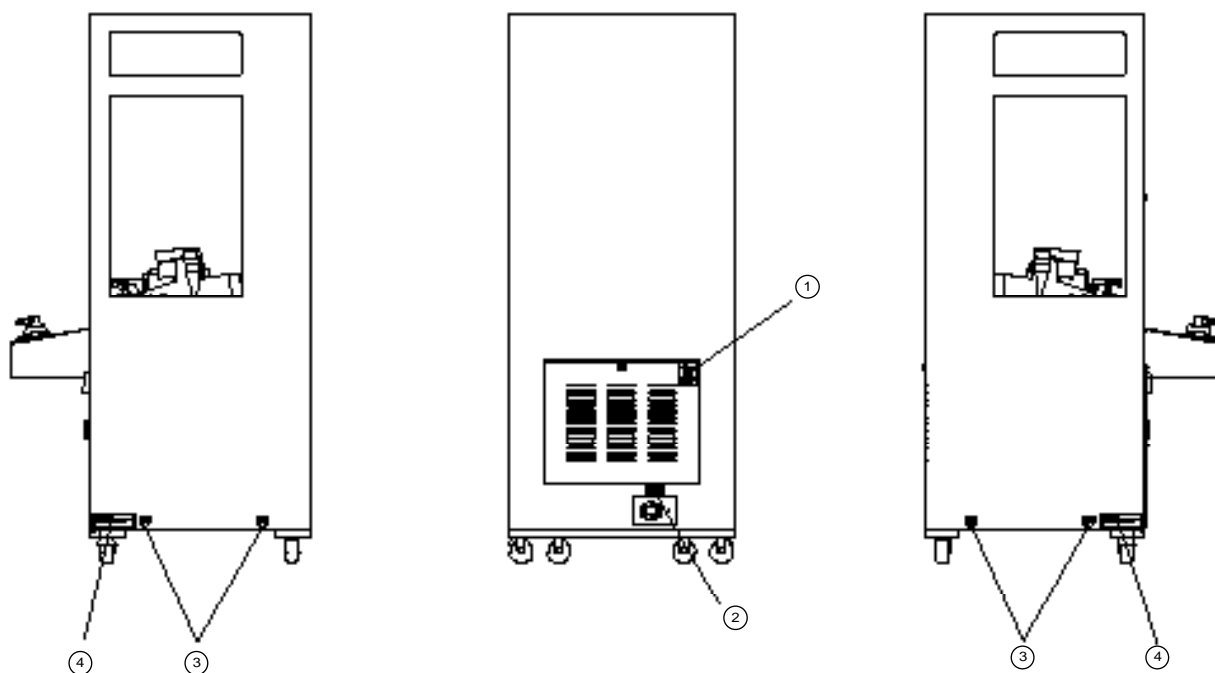
4. Safety Rules & Sticker Location

4-1. Safety Rules



Check if voltage indicated on the Machine corresponds with the voltage supplied.
 Do not install where Machine is exposed to moisture or rain to prevent which may result in shock hazard or fire.
 Do not install near sources (such as heaters, stoves...etc.) or the inflammables to prevent explosion or fire.
 Do not place Machine at inclined or unstable place to prevent damage or personal injury

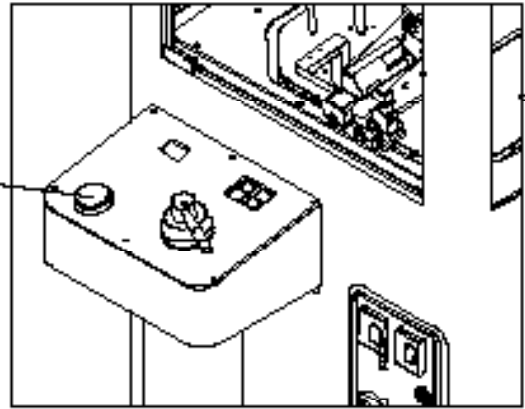
4-2. Sticker Location



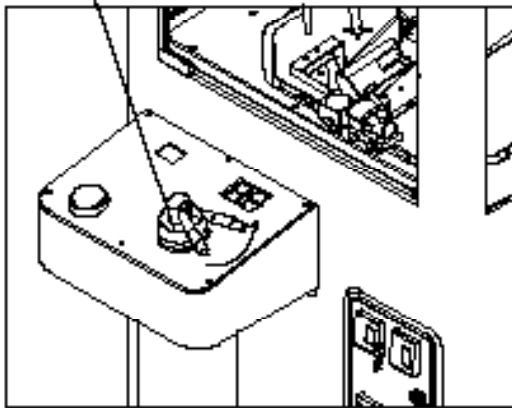
6. How to play

1. Insert coin/s
2. Press the start button to start game.

Start Button

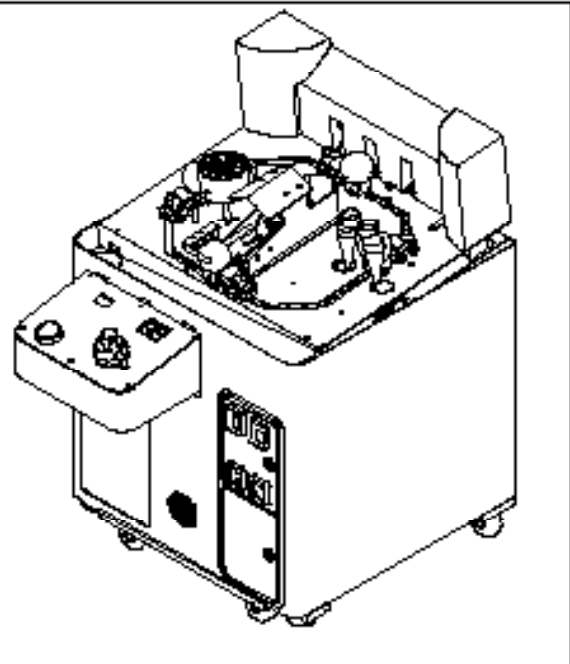


to Adjust Speed



3. Drive through obstacles using the handle to adjust speed.

4. You WIN when you return to the starting point without dropping the ball.



5. Take your ticket/s.

7. Troubleshooting

7-1-2. Error NO. " 02 "

7-1-2-1. When balls are not dispensed

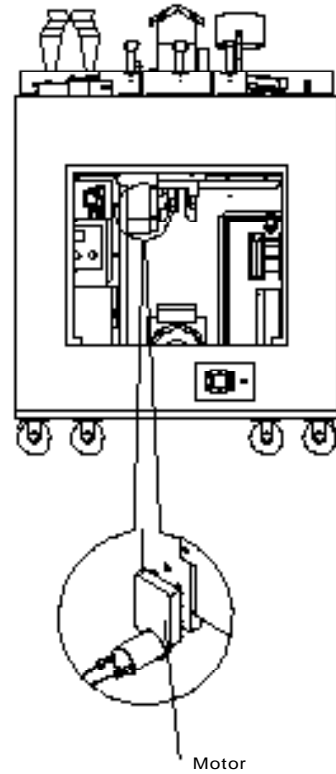
Check if balls are normally loaded into the elevator

Problem with motor

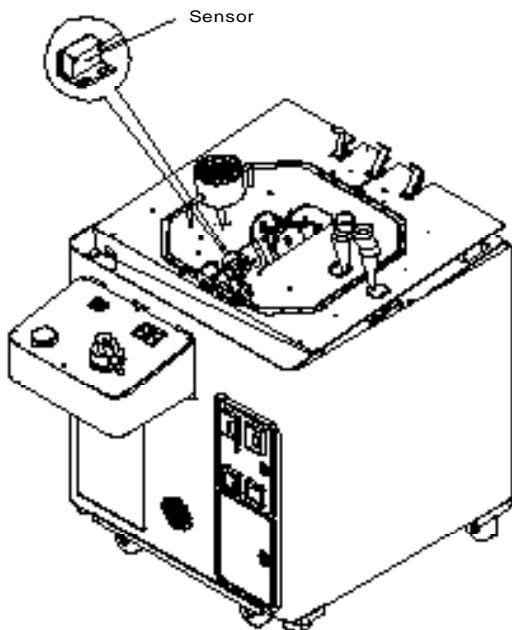
Check if wires to the motor are properly connected.

Check the bolts to make sure the motor is secure, and if they are loose, tighten them using the tools supplied.

Check if the motor is normal. Refer to the assembly drawing(1) on 10-2-1. Main Base and 10-2-1-1. Main Sprocket for replacement.



7-1-2-2. When balls continue to be dispensed



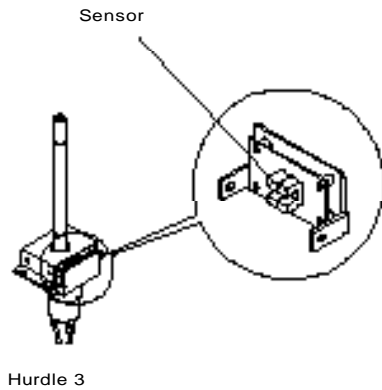
Problem with sensor

Check if the connector is coupled to the sensor.

Check the sensor by test mode.

7. Troubleshooting

7-1-4-2. When hurdle NO. 3 functions



Problem with sensor

Check if the connector is coupled to the sensor.

Check the sensor .
Refer to the assembly drawing(3) on 10-2-3-2.
Hurdle for replacement.

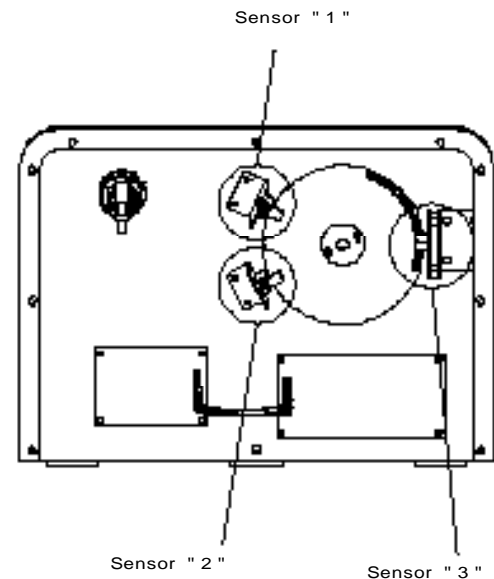
7-1-5. Error NO. " 05 "

7-1-5-1. When the train is operated without managing the handle

Check if the train returns with handle. And if not, replace the return spring in the control handle with new one. Refer to assembly drawing(1) on 10-3-1. Control Box for replacement.

Check if the connector is coupled to the sensor " 02 " .

Check the sensor " 2 " .
Refer to assembly drawing(2) on 10-3-2.
Control box for replacement.

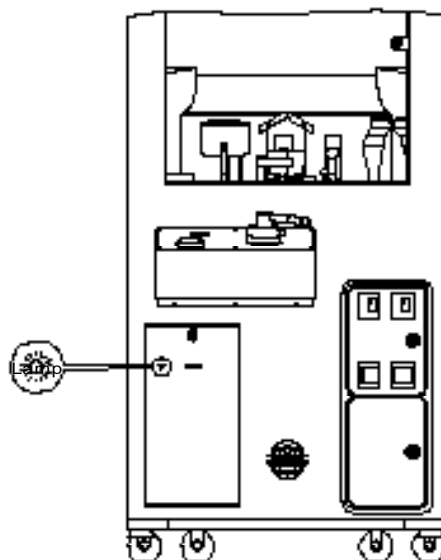


7. Troubleshooting

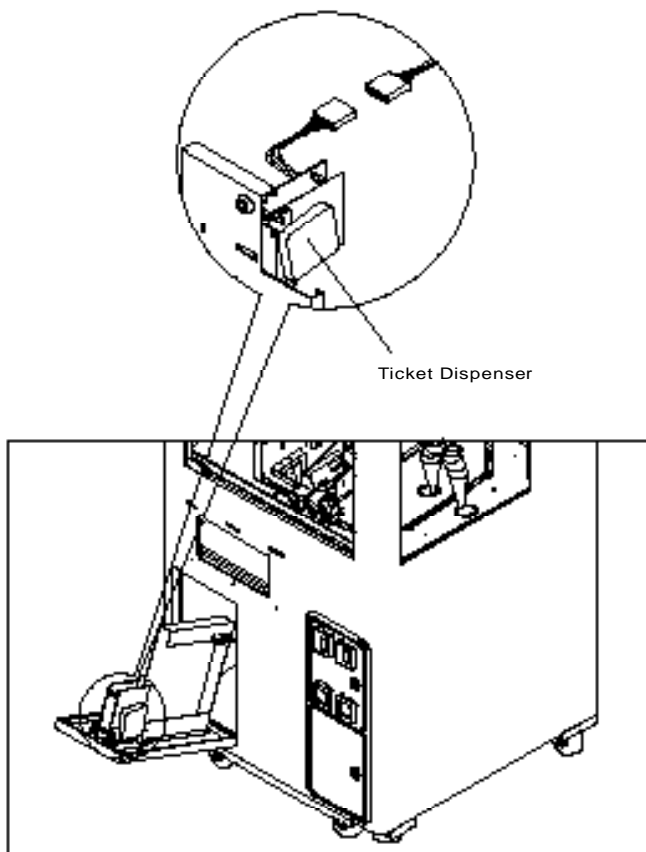
7-1-7. Error NO. " 07 "

7-1-7-1. When the lamp is ON and the game sounds "beep - beep"

Check if there are tickets in the ticket box.



7-1-7-2. When the lamp is ON and "beep - beep" sound stops



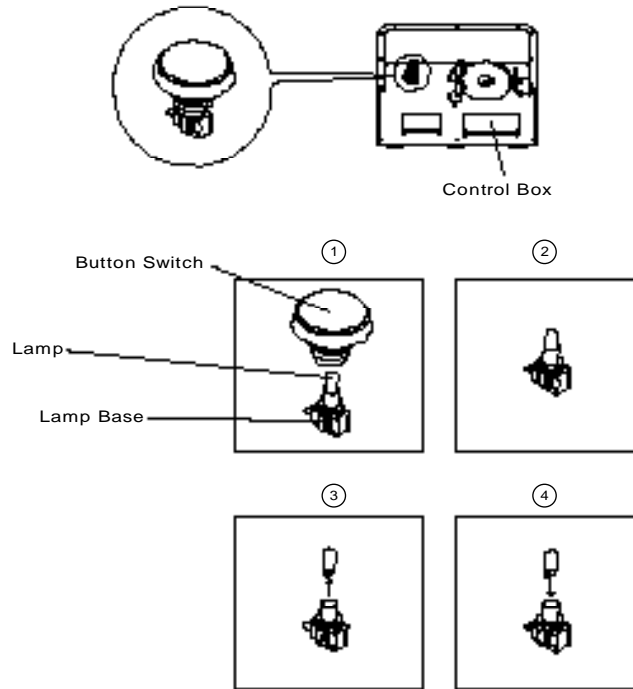
Check if there is a damaged ticket inside the ticket dispenser.

Check if the connector is coupled to the Ticket dispenser.

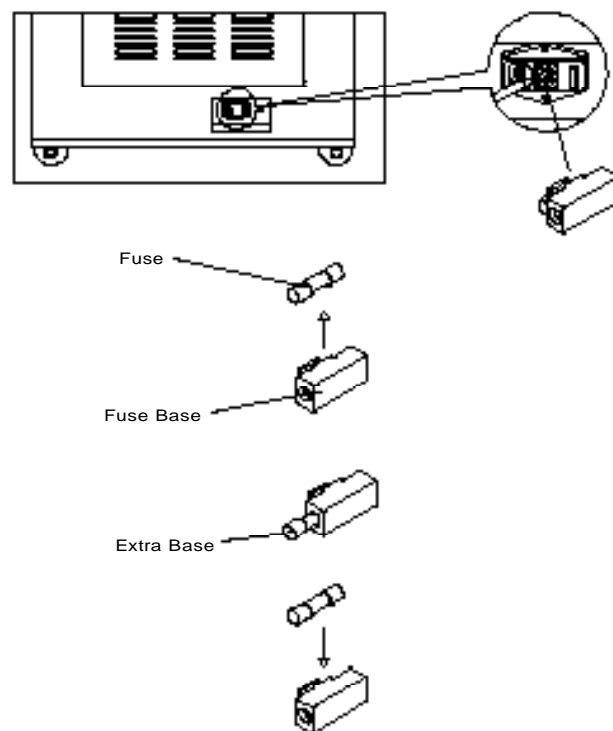
7. Troubleshooting

7-3. Parts of Replacement

7-3-1. Button switch Replacement



7-3-2. Fuse Replacement



8. Test Mode & Error NO.

8-2. Test Mode

-NO.3

Handle 1, 2, 3 are normally operated by handle mode test.

-NO.4

For ticket dispenser test and ticket counter test, a ticket is dispensed on the maximum position of the control handle and ticket counter is operated

-NO.5

Train, handle, Elevator and motor are automatically tested by auto test.

-NO.6

For handle test, move the handle from 0 to 18 and the train speed is indicated on FND in figures.

-NO.7

For sensor and switch test, the state of sensor and switch is indicated on FND in NO. Refer to the following table for sensor and switch no.

NO.	ITEM	NO.	ITEM
1	START BUTTON	8	SUCCESS SENSOR
2	TEST BUTTON	9	TICKET EMPTY SWITCH
3	SERVICE BUTTON	10	TICKET CHECK SENSOR
4	COIN 1 SWITCH	11	
5	COIN 2 SWITCH	12	HANDLE MAXIMUM SENSOR
6	BALL LOAD SENSOR	13	HANDLE MINIMUM SENSOR
7	BALL OUT SENSOR	14	TRAIN START POSITION SENSOR

-NO.8

For coin counter test, if the switch on the coin machine is sensed, coin counter is operated.

-NO.9

When the train is operated by handle through train motor encoder test, the train speed value is indicated on Time FND. (The lower, the faster)

-No. 10

The hurdle 3 motor speed value is indicated on Time FND through hurdle 3 motor encoder test. (average: 24~28)

-No. 11

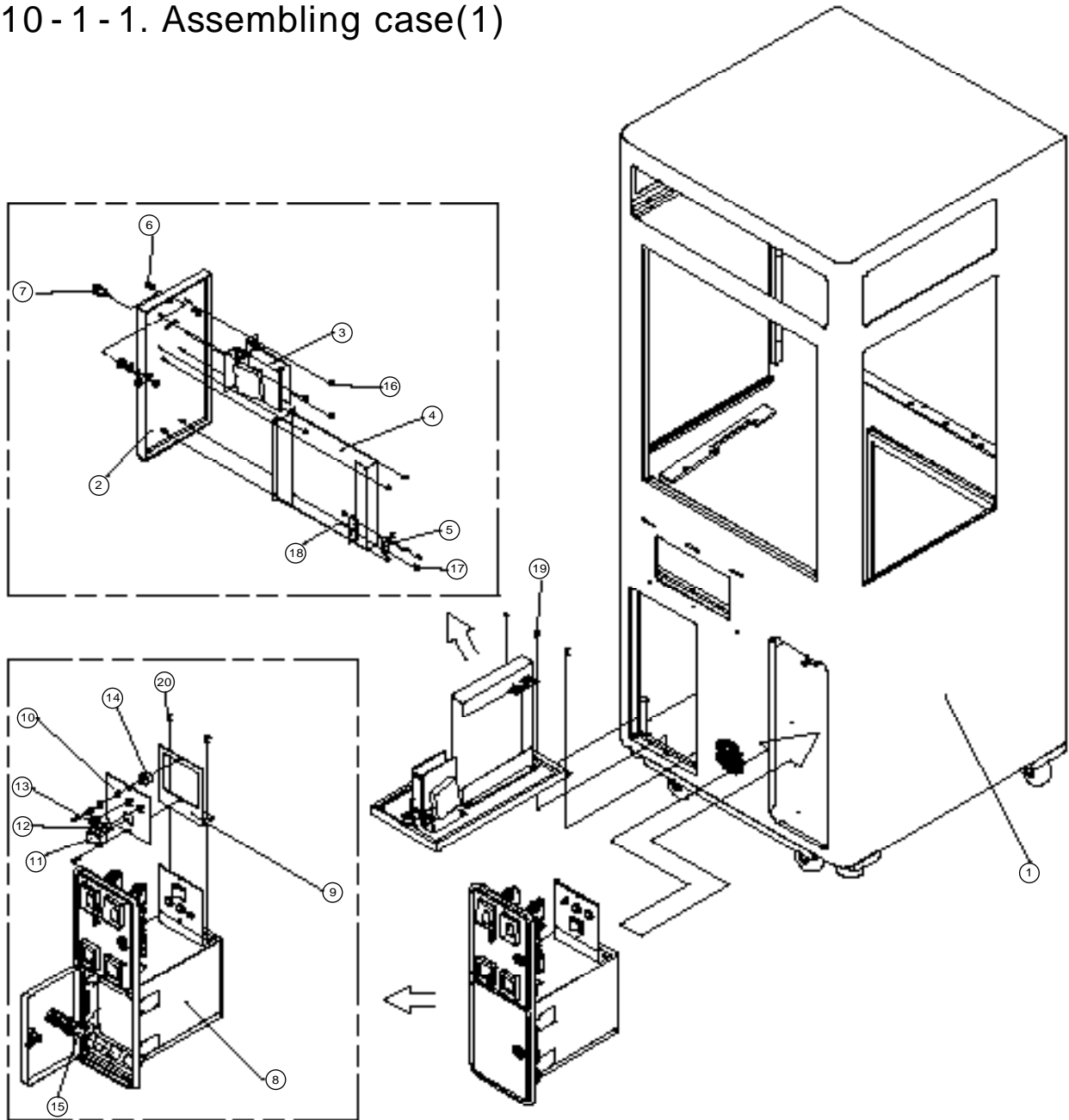
Accumulated probability is cleared by EPP ROM CLEAR.

ERROR NO.	DESCRIPTION
1	TRAIN MOTOR ERROR OR SENSOR ERROR OF TRAIN START POSITION
2	BALL LOAD MOTOR ERROR OR SENSOR ERROR OF BALL LOAD CHECK
3	OVER LOAD ERROR OR SENSOR ERROR OF TRAIN ENCODER
4	HURDLE 3 MOTOR ERROR OR SENSOR ERROR OF HURDLE 3 ENCODER
5	SENSOR ERROR OF HANDLE ENCODER
6	ERROR OF THE BALL DROPPING CHECK SENSOR
7	TICKET ERROR

10. Assembly drawing & parts list

10-1. Assembling case

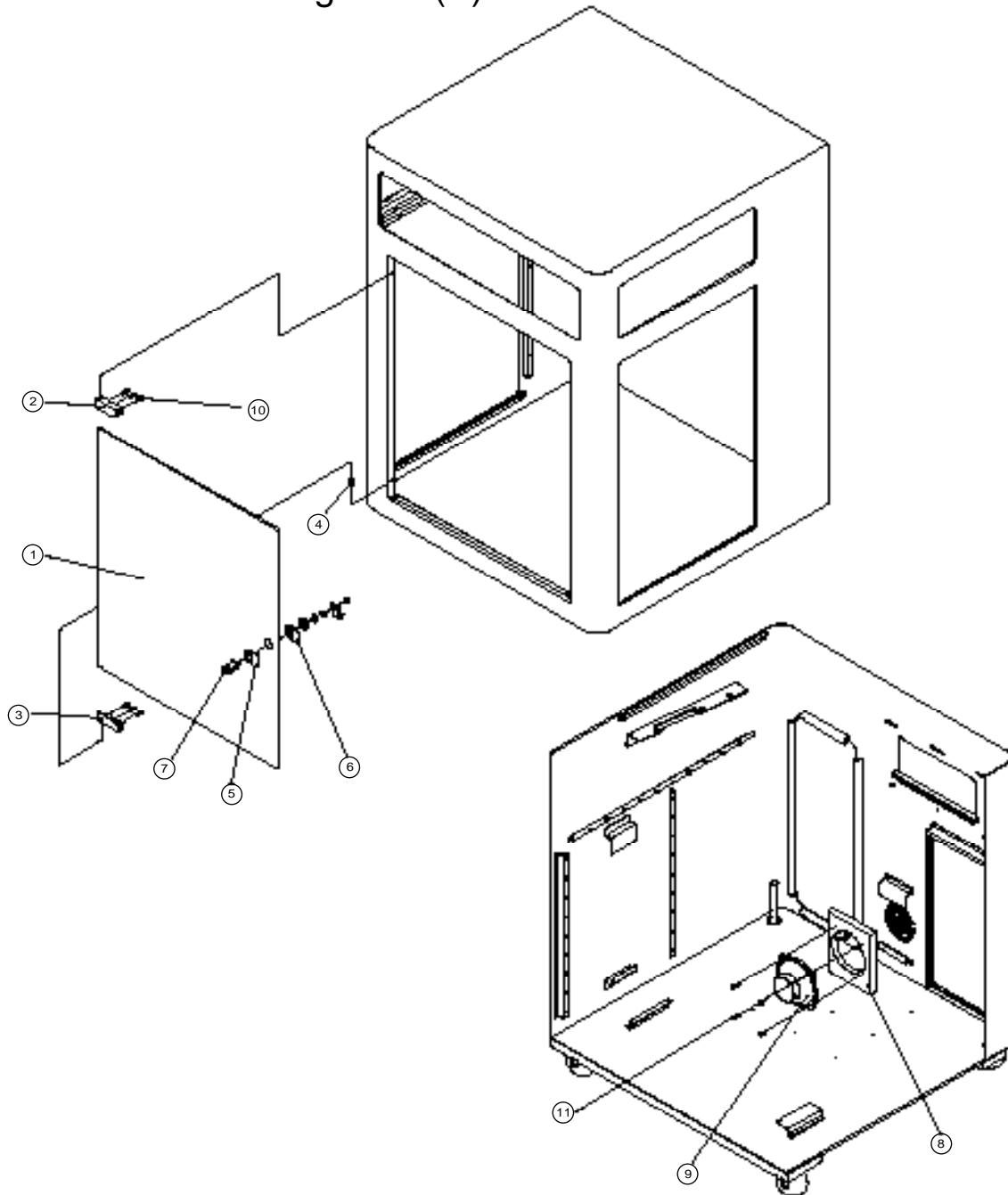
10-1-1. Assembling case(1)



NO.	NAME	SPEC	Q' TY	CODE NO.	NO.	NAME	SPEC	Q' TY	CODE NO.
1	CABINET		1	MWETOMEP127	11	ROCKER SWITCH	T - 120 4P	1	MELEOSWI004
2	TICKET DOOR		1	MWETOMEP117	12	PUSH BUTTON SWITCH	412R	1	MELEOPUS001
3	TICKET DISPENSER	DL - 1275(USA)	1	MMALOTID001	13	PUSH BUTTON SWITCH	412W	1	MELEOPUS002
4	TICKET CASE		1	MWETOMEP116	14	VOLUME	BA25Y - 500	1	MELEOVOL003
5	MICRO SWITCH - L	SZM - V16 - 4FA - 61	1	MELEOMIC009	15	COUNTER	AMMC - 612	2	MZZZ0COU001
6	DISPLAY - LED		1	PDISOLED008	16	FLANGE NUT	M4	8	
7	KEY ASS ' Y		1	MZZZKEY012	17	PH	M3X10	2	
8	COIN DOOR ASS ' Y		1	AZZZOCOD006	18	HEXAGONNUT	M3	2	
9	AC POWER SWITCH BRACKET		1	MWET1MEP063	19	FLAT HEAD CAP SCREW	M4X10	3	
10	AC POWER SWITCH PLATE		1	MWET1MEP062	20	SEMS	M4X10	4	

10.Assembly drawing & parts list

10 - 1 - 3. Assembling case(3)

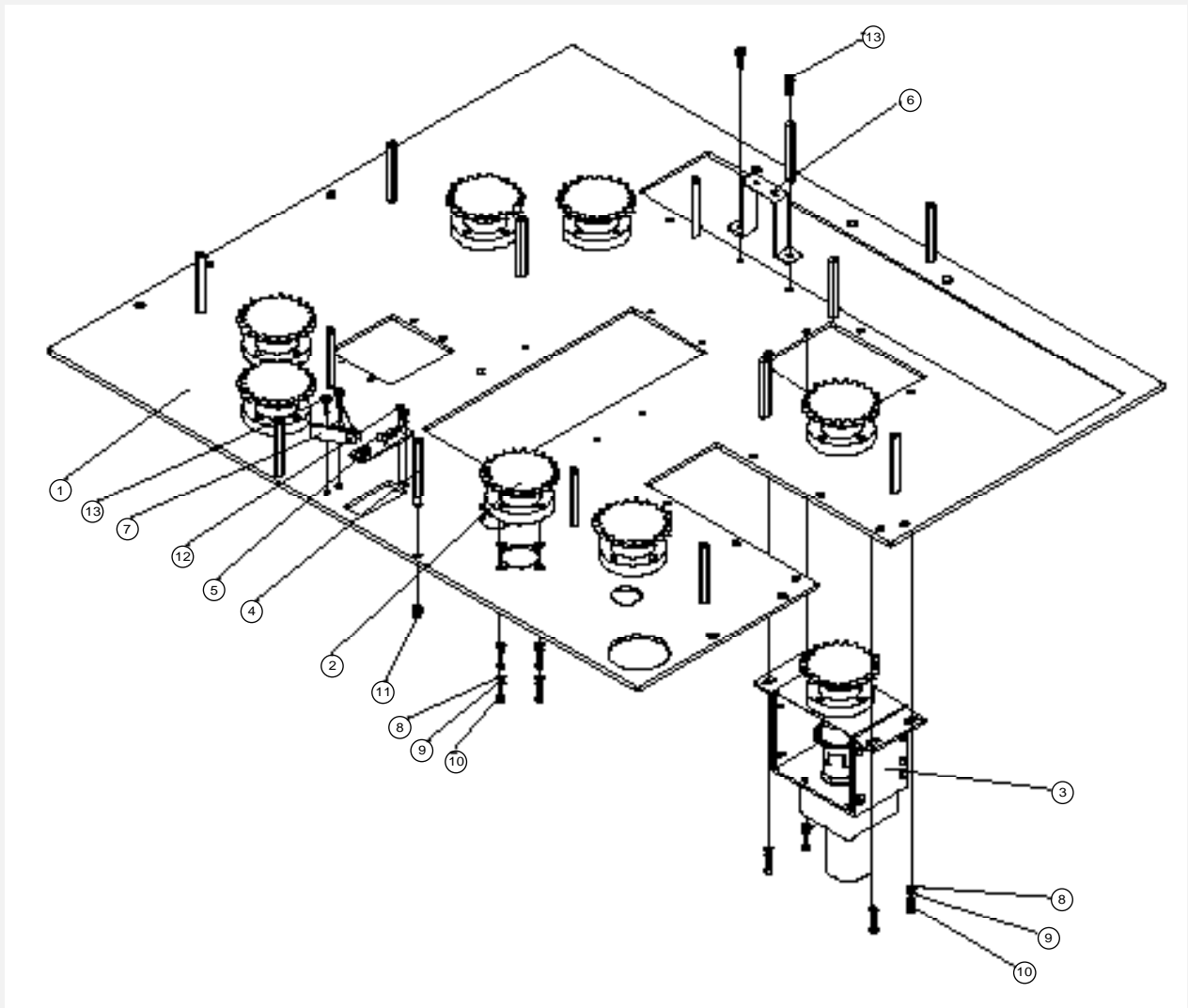


NO.	NAME	SPEC	Q' TY	CODE NO.	NO.	NAME	SPEC	Q' TY	CODE NO.
1	FRONT GLASS DOOR		1	MWETOGLA001	7	KEY ASS ' Y		1	MZZZOKEY012
2	FRONT DOOR HINGE - A		1	MWETOMEP114	8	MDF SPEAKER		1	MWETWO002
3	FRONT DOOR HINGE - B		1	MWETOMEP115	9	SPEAKER	5 "	1	MZZZOSPE001
4	FRONT DOOR HINGE BUSHING		1	MWETOPRO014	10	SEMS	M4X10	6	
5	FRONT DOOR KEY PLATE - A		1	MWET1MEP023	11	TH	M4X12	4	
6	FRONT DOOR KEY PLATE - B		1	MWET1MEP024	12				

10.Assembly drawing & parts list

10-2. Assembling Main Base

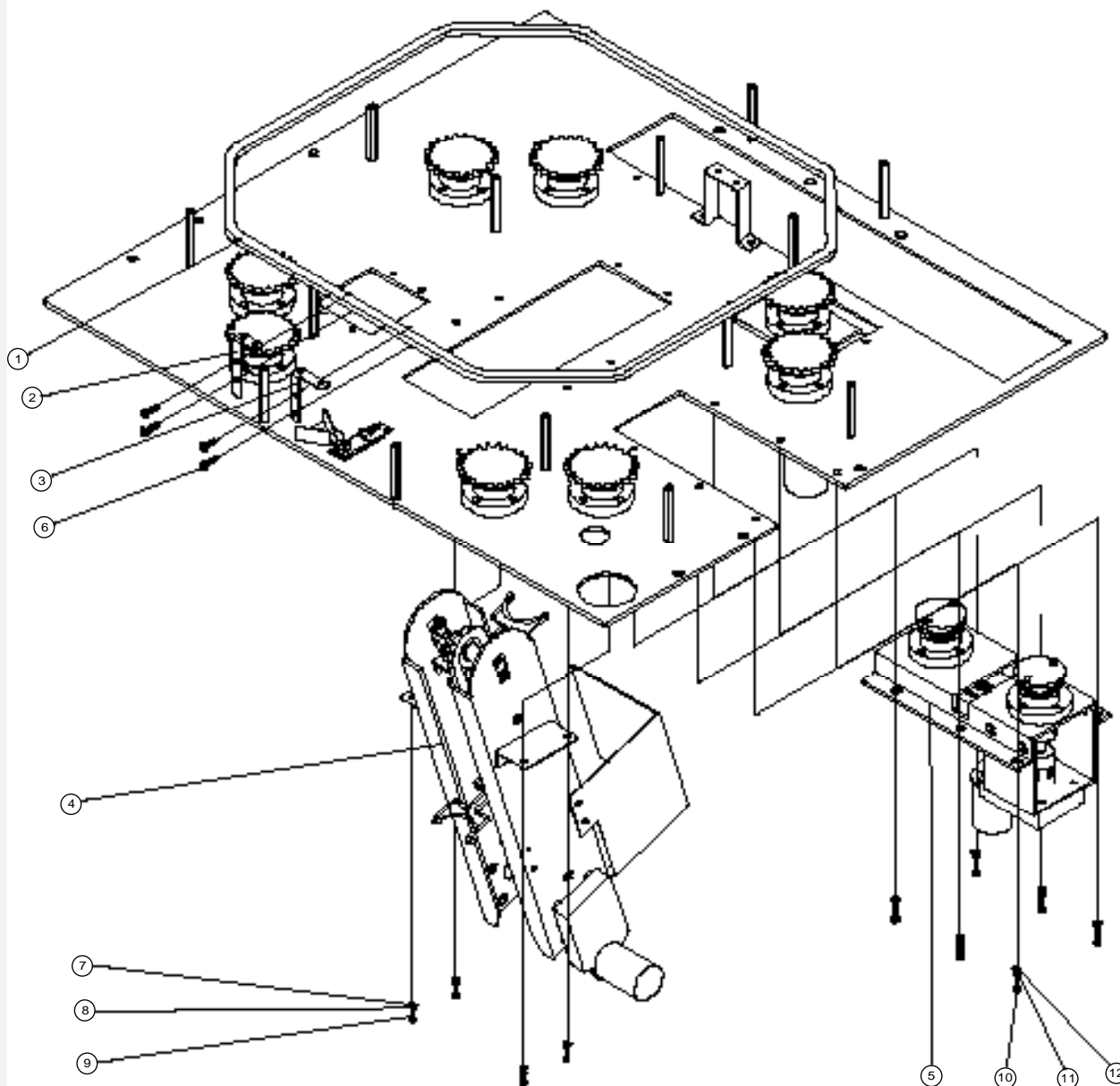
10-2-1. Assembling Main Base(1)



NO.	NAME	SPEC	Q' TY	CODE NO.	NO.	NAME	SPEC	Q' TY	CODE NO.
1	MAIN BASE		1	MWET1MEP004	11	FLANGE NUT	M5	14	
2	MAIN SPROCKET-ASS 'Y		7	AWETOPRO009	12	SEMS	M3X6	2	
3	MAIN CHAIN MOTOR ASS 'Y		1	AWETOMEP012	13	SEMS	M4X10	4	
4	MAIN SPACE SHAFT		14	MOUBOPRO029	14				
5	SENSOR PCB		1	AWET1PCB005	15				
6	RAIL JOIN BRACKET		1	MWETOMEP096	16				
7	SENSOR GUIDIE BRACKET		1	MWETOMEP092	17				
8	PLATE WASHER		32		18				
9	SPIRING WASHER		32		19				
10	HEXAGON SOCKET HEAD CAPS CREW		32		20				

10.Assembly drawing & parts list

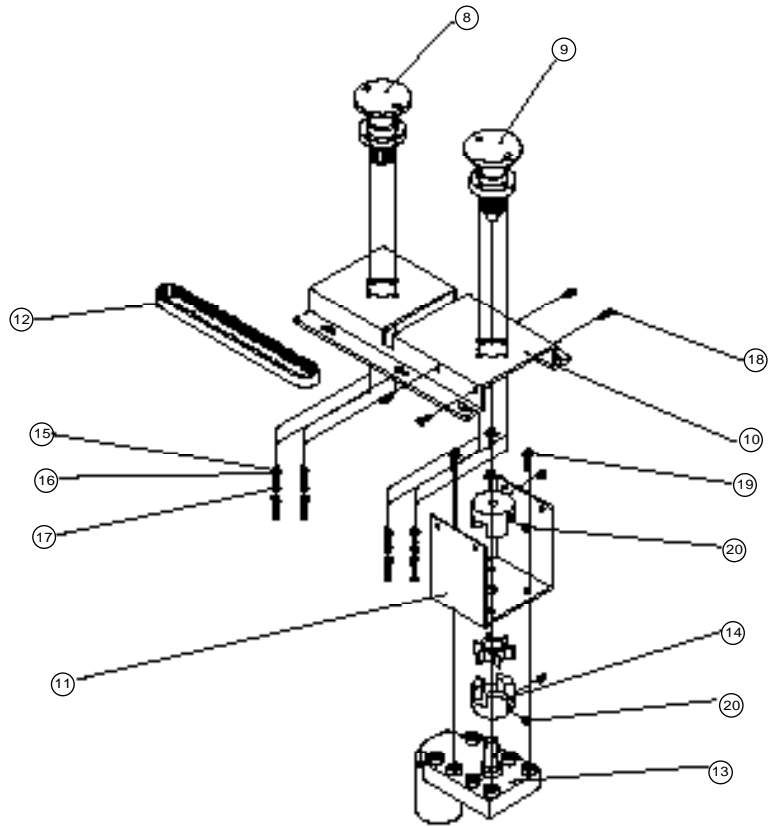
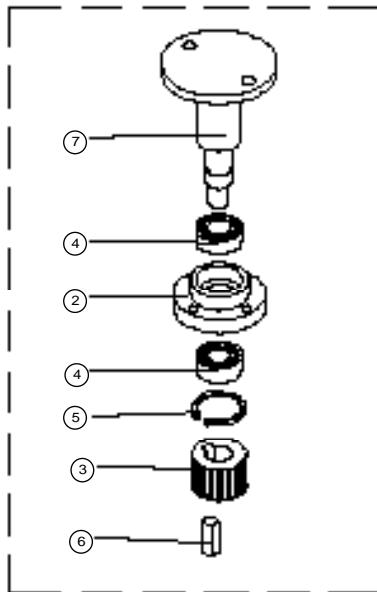
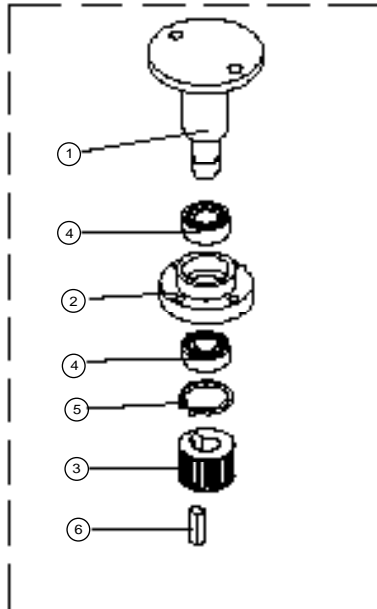
10 - 2 - 2. Assembling Main Base(2)



NO.	NAME	SPEC	Q' TY	CODE NO.	NO.	NAME	SPEC	Q' TY	CODE NO.
1	MAIN CHAIN	RS35 - 170L	1	MWETOCHA001	11	SPRING WHSHER	Ø5	6	
2	GOODS WAGON FIXING ATTCH		1	AWETOPRO009	12	PLATE WASHER	Ø5	6	
3	TRAIN FIXING ATTACH		1	MWETOMEP006	13				
4	ELEVATOR ASS ' Y		1	AWETOMEP013	14				
5	HURDLE 1 ASS ' Y		1	AWET1MEP015	15				
6	PH	M4X10	4		16				
7	PLATE WASHER	Ø4	4		17				
8	SPRING WASHER	Ø4	4		18				
9	HEXAGON SOCKET HEAD CAPSCREW	M4X16	4		19				
10	HEXAGON SOCKET HEAD CAPSCREW	M5X16	6		20				

10. Assembly drawing & parts list

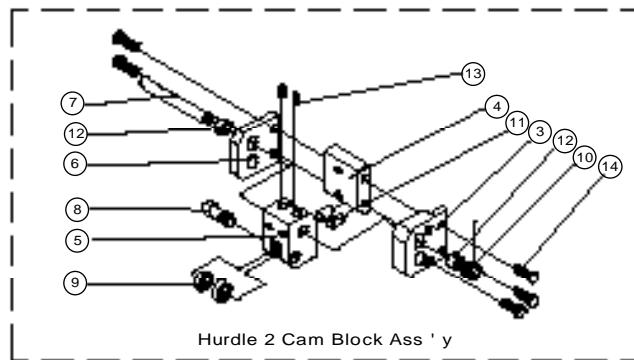
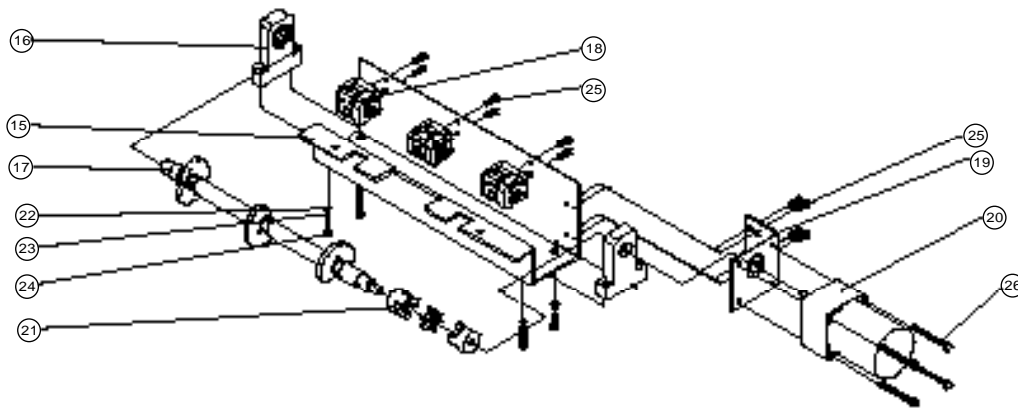
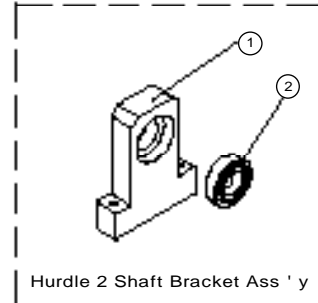
10-2-2-2. Assembling Hurdle 1



NO.	NAME	SPEC	Q' TY	CODE NO.	NO.	NAME	SPEC	Q' TY	CODE NO.
1	HURDLE 1 SHAFT - A		1	MOUBOPRO032	11	HURDLE 1 MOTOR BRACKET		1	MWETOMEB16
2	BEARING HOUSING		2	MOUBOPRO028	12	TIMMING BELT	120XL 9.5T	1	MWETOBEL001
3	TIMMING BELT PULLEY	XL037	2	MWETOPRO006	13	MOTOR	KGE-050-3448A	1	MWETMOT005
4	BALL BEARING	6902Z	4	MZZZOBEA002	14	COUPLING	CR050	1	MRESOPR002
5	C TYPE SNAP RING	Ø15	2	MRESOMEPE130	15	PLATE WASHER	Ø5	8	
6	SUNK KEY	4X4X14	2	MZZZOPRO004	16	SPRING WASHER	Ø5	8	
7	HURDLE 1 SHAFT - B		1	MOUBOPRO033	17	HEXAGON SOCKET HEAD CAPSCREW	M5X16	8	
8	HURDLE 1 SHAFT - A ASS' Y		1	AWET1PRO003	18	FLAT HEAD CAP SCREW	M4X8	4	
9	HURDLE 1 SHAFT - B ASS' Y		1	AWET1PRO004	19	SMES	M4X10	4	
10	HURDLE 1 BEARING HOUSING BRACKET		1	MWETOMEPE015	20	SET SCREW	M4X6	4	

10.Assembly drawing & parts list

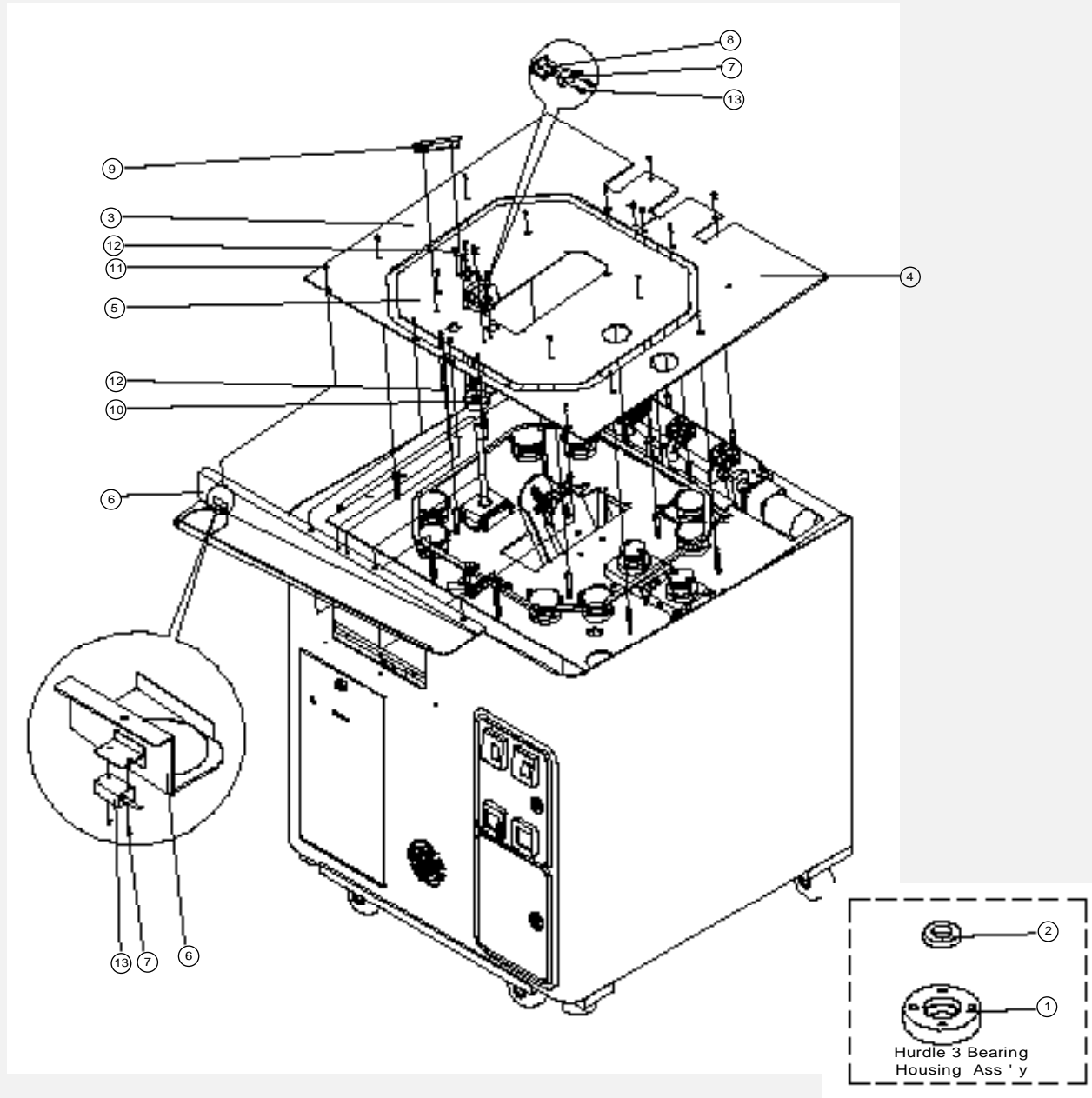
10-2-3-1. Assembling Hurdle 2



NO.	NAME	SPEC	Q' TY	CODE NO.	NO.	NAME	SPEC	Q' TY	CODE NO.
1	HURDLE 2 SHAFT BRACKET		1	MOUBOPRO035	14	HEXAGON SOCKET HEAD CAPSCREW	M4X16	5	
2	BALL BEARING	6902Z	1	MZZZOBEA002	15	HURDLE 2 MAIN BRACKET		1	MWETOMEB018
3	HURDLE 2 CAM BLOCK - A		1	MOUBOPRO039	16	HURDLE 2 SHAFT BRACKET ASS'Y		2	AWETOPR007
4	HURDLE 2 CAM BLOCK - B		1	MOUBOPRO041	17	HURDLE 2 SHAFT ASS'Y		1	AWETOPR006
5	HURDLE 2 CAM BLOCK - C		1	MOUBOPRO042	18	HURDLE 2 CAM BLOCK ASS'Y		3	AWETOPRO005
6	HURDLE 2 CAM BLOCK - D		1	MOUBOPRO058	19	HURDLE 2 MOTOR BRACKET		1	MWETOMER019
7	HURDLE 2 CAM BLOCK SHAFT - A		1	MOUBOPRO044	20	MOTOR	KD-052B(60:1)	1	MWETOMOT004
8	HURDLE 2 CAM BLOCK SHAFT - B		1	MOUBOPRO045	21	COUPLING	CRO50	1	MRESOPRO002
9	BEARING	MR126ZZ	2	MZZZOBEA005	22	PLATE WASHER	Ø5	4	
10	CAM RETURN SPRING		1	MWET1SPR002	23	SPRING WASHER	Ø5	4	
11	HURDLE 2 CUSHOIN		2	MWETORUB002	24	HEXAGON SOCKET HEAD CAPSCREW	M5X16	4	
12	DU BUSHING	MB0608	2	MZZZOBEA023	25	SEMS	M4X10	10	
13	SET SCREW	M4X6	2		26	PH	M4X50	4	

10.Assembly drawing & parts list

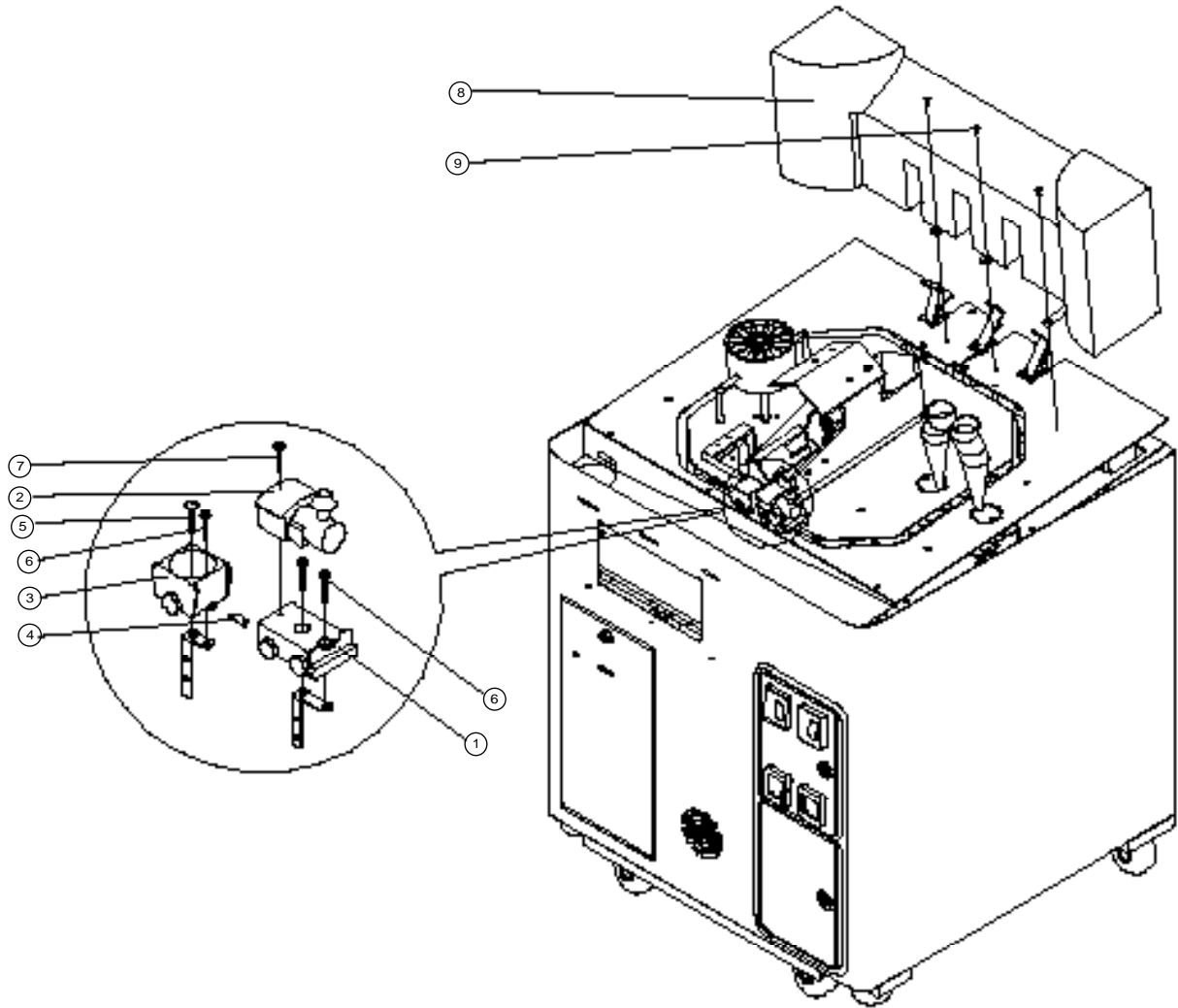
10 - 2 - 4. Assembling Main Base(4)



NO.	NAME	SPEC	Q' TY	CODE NO.	NO.	NAME	SPEC	Q' TY	CODE NO.
1	HURDLE 3 BEARING HOUSING		1	MOUBOPRO057	11	FLAT HEAD CAP SCREW	M3X8	20	
2	BALL BEARING	6801Z	1	MZZOBEA001	12	SMES	M4X10	6	
3	RAIL BASE -L		1	MWET1MEP094	13	PH	M3X16	4	
4	RAIL BASE -R		1	MWETOMEPO96	14				
5	MAIN BASE COVER		1	MWETOMEPO30	15				
6	BALL GUIDE BRACKET-B		1	MWETOMEPO53	16				
7	PHOTO SENSOR	BYD50 - DDT	2	MELEOPHO001	17				
8	CENTER SENSOR BRACKET		1	MWETOMEPO90	18				
9	OBSTRUCTOR		1	MWETOMEPO66	19				
10	HURDLE 3 BEARING HOUSINGASS'Y		1	AWETOPRO006	20				

10.Assembly drawing & parts list

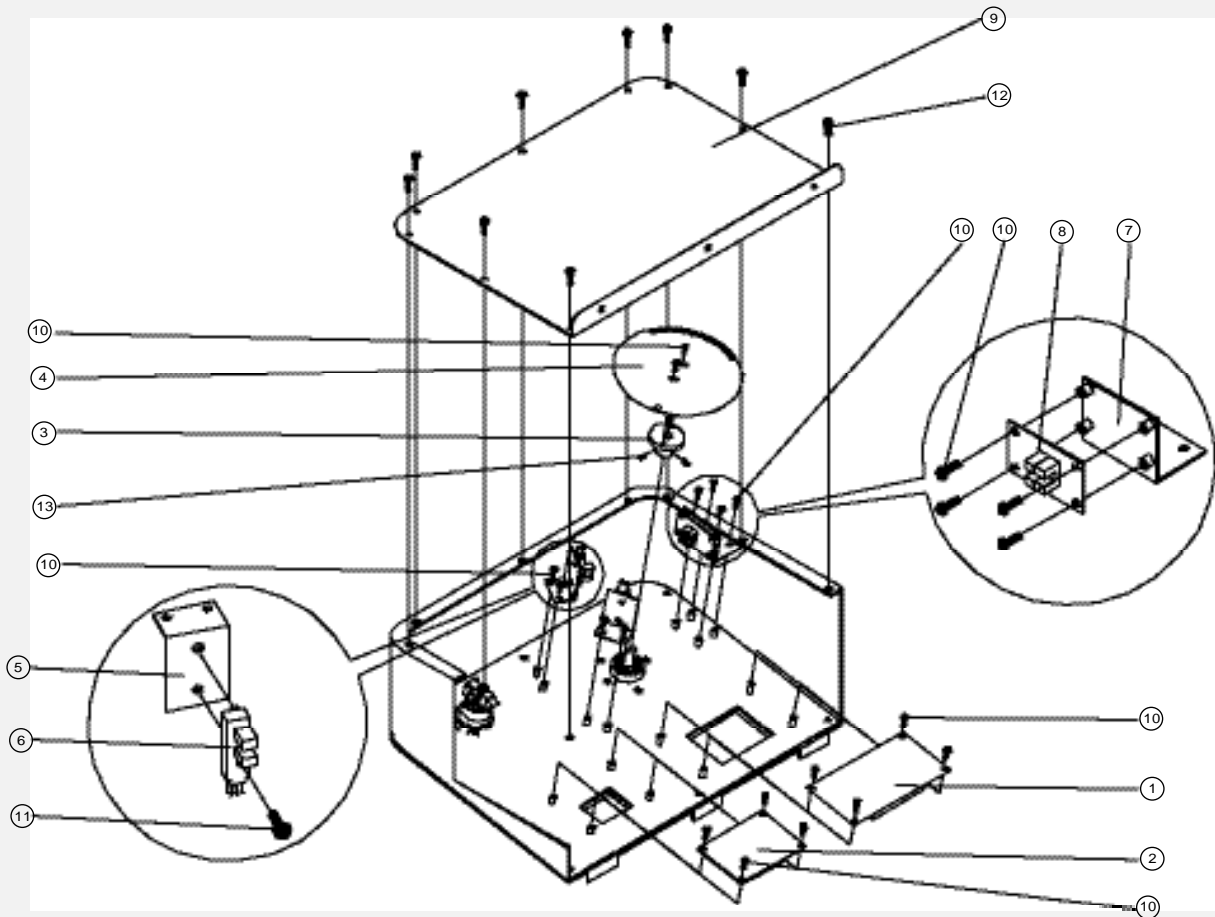
10 - 2 - 6. Assembling Main Base(6)



NO.	NAME	SPEC	Q' TY	CODE NO.	NO.	NAME	SPEC	Q' TY	CODE NO.
1	TRAIN BASE		1	MWETOPLA002	11				
2	TRAIN HEAD		1	MWETOPLA003	12				
3	GOODS WAGON		1	MWETOPLA005	13				
4	TRAIN JOIN SPRING		1	MWETOSPR003	14				
5	FLAT HEAD CAP SCREW	M4X25	1		15				
6	PH	M4X25	3		16				
7	TH	M3X40	1		17				
8	GOLD MINE		1	MWET1VAF003	18				
9	SEMS	M3X8 3	8		19				
10					20				

10.Assembly drawing & parts list

10 - 3 - 2. Assembling Control Box(2)



NO.	NAME	SPEC	Q' TY	CODE NO.	NO.	NAME	SPEC	Q' TY	CODE NO.
1	FND 1 PCB ASS ' Y		1	AWETOPCB001	11	PH	M4X10	2	
2	FND 2 PCB ASS ' Y		1	AWETOPCB003	12	HEXAGON SOCKER HEAD CAP SCREW	M4X1 (GROUND HEAD)	9	
3	HANDLE ENCODER SPACE		1	MWETOPRO018	13	SET SCREW	M4X8	2	
4	HANDLE ENCODER		1	MWETOME124	14				
5	HANDLE SENSOR BRACKET - B		2	MWETOME126	15				
6	PHOTO SENSOR	LG - 217L3	2	MELEOPHO007	16				
7	PHOTO SENSOR BRACKET - A		1	MWETOME125	17				
8	ENCODER SENSOR PCB 1 ASS ' Y		1	AWETOPCB006	18				
9	CONTROL BOX LOW		1	MWET1MEP100	19				
10	SEMS	M3X6	18		20				