



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.

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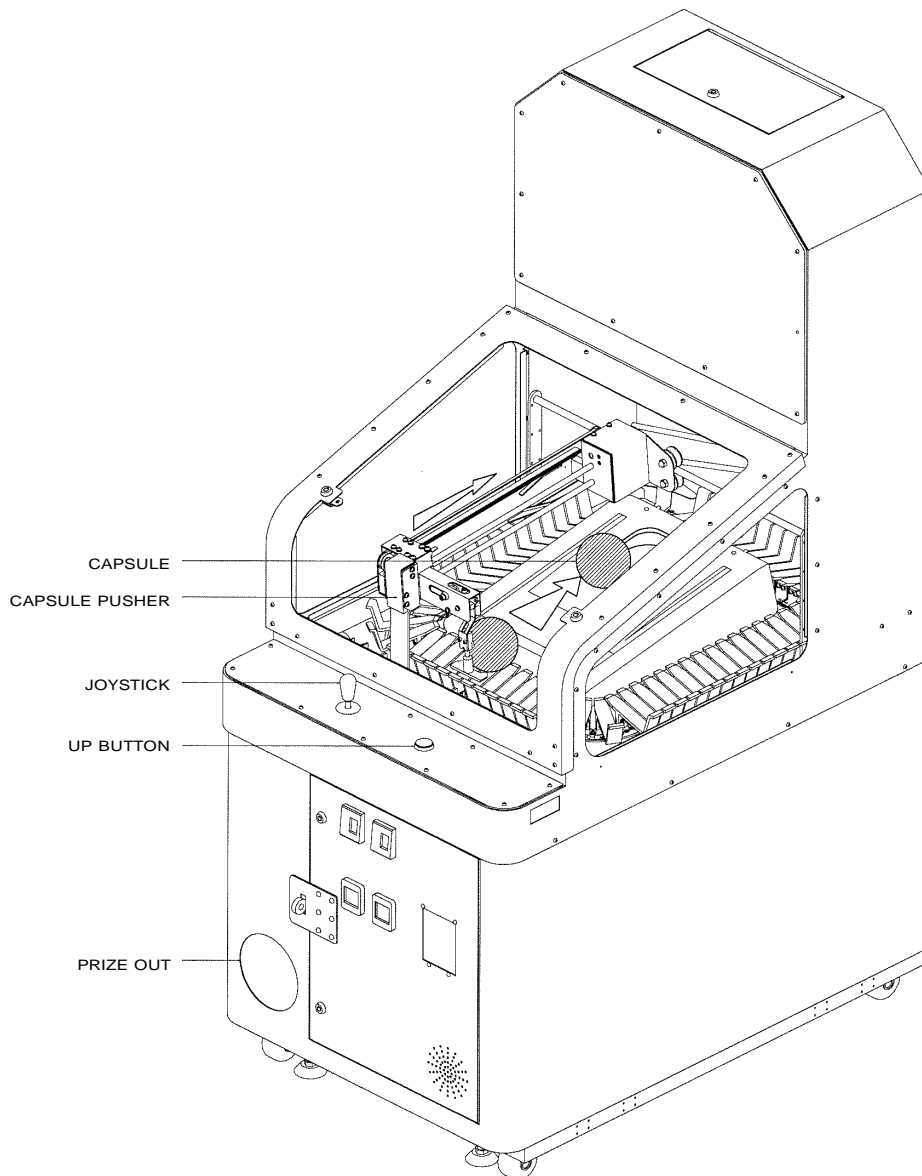
PRECAUTIONS IN HANDLING

- When setting up, inspecting, maintaining, moving or transporting this product, follow the procedures and instructions set forth in this manual and perform such work safely.
- Do not set up, handle, inspect, maintain, move or transport this product under conditions equivalent to the condition of "WARNING" or "CAUTION" specified in this manual.
- If a new owner is to have this product as a result of transfer, etc., be sure to give this manual to the new owner.

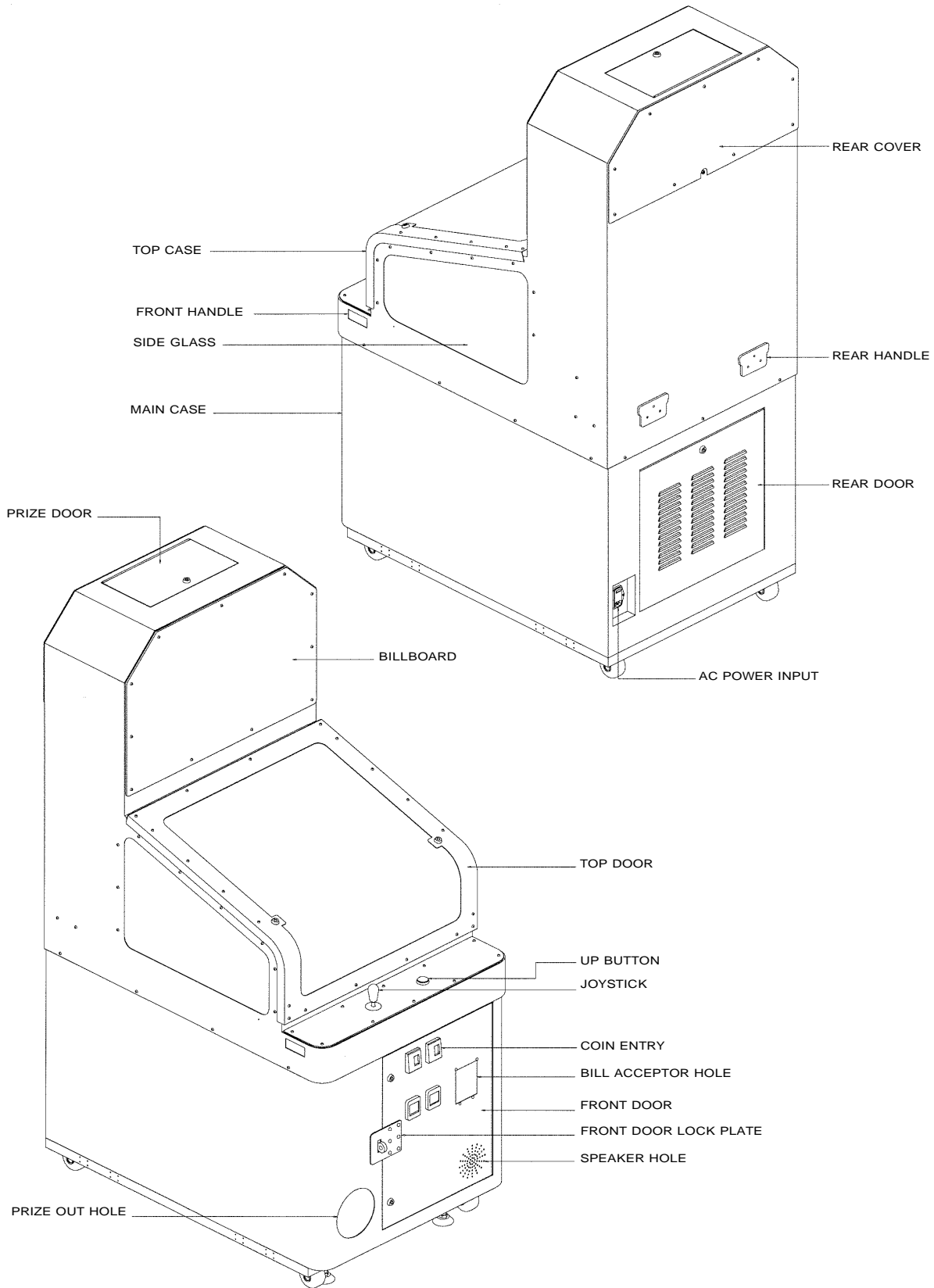
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1. HOW TO PLAY

1. Insert Coin(s).
2. Move The Joystick Left Or Right To Position The Capsule Pusher Toward The Center Of The Ramp.
3. When Ready, Push The " Up Button " .
The Capsule Pusher Will Move The Capsule Forward At A Constant Speed.
4. Using The Joystick You Must Guide The Capsule All The Way To The Top Of The Ramp.



3. NAME OF PARTS



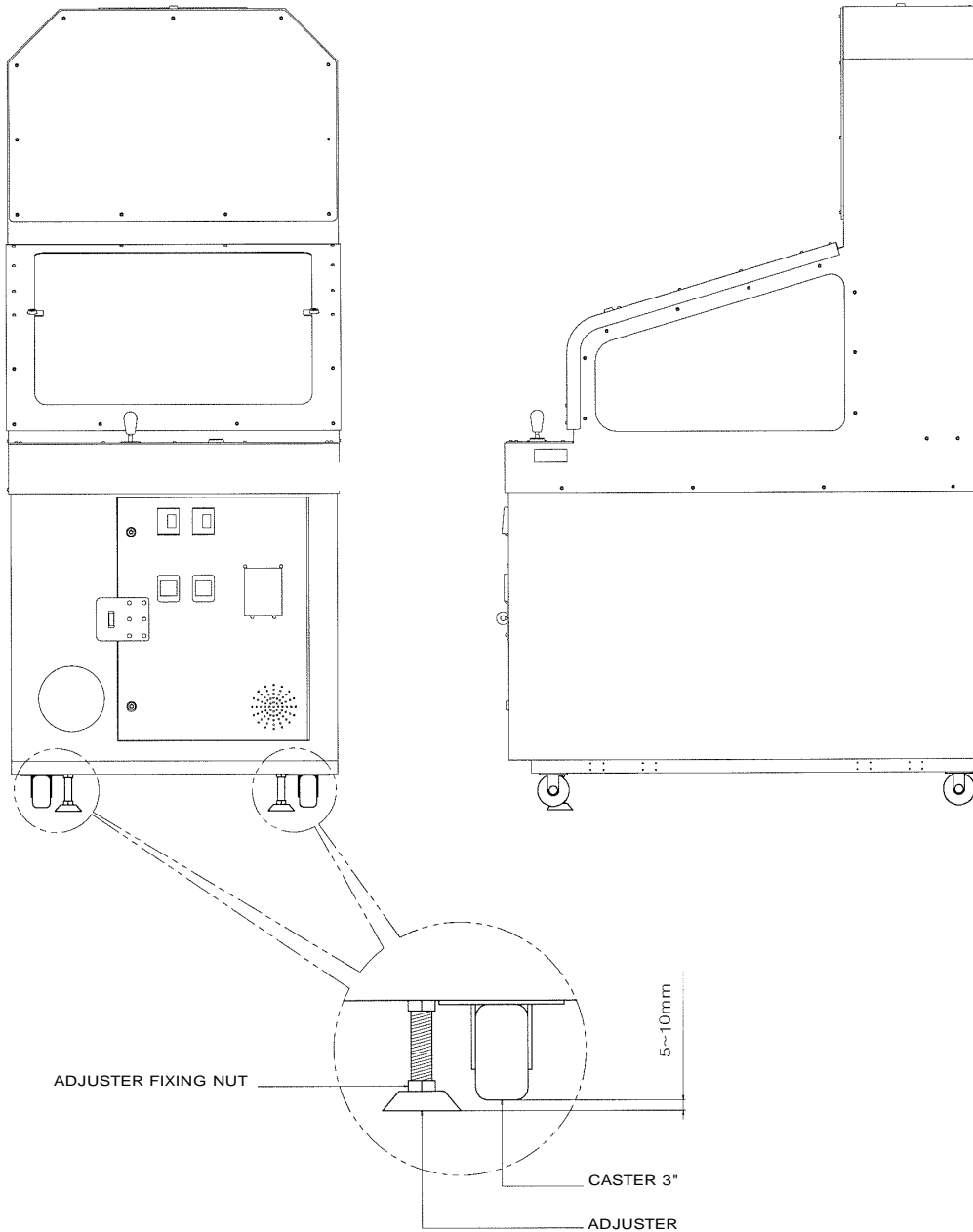
4. INSTALLATION

4-3. PLACEMENT

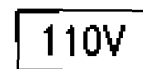
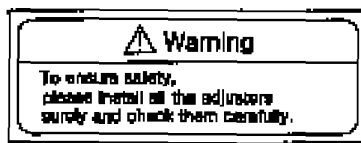
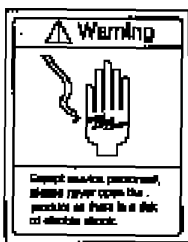
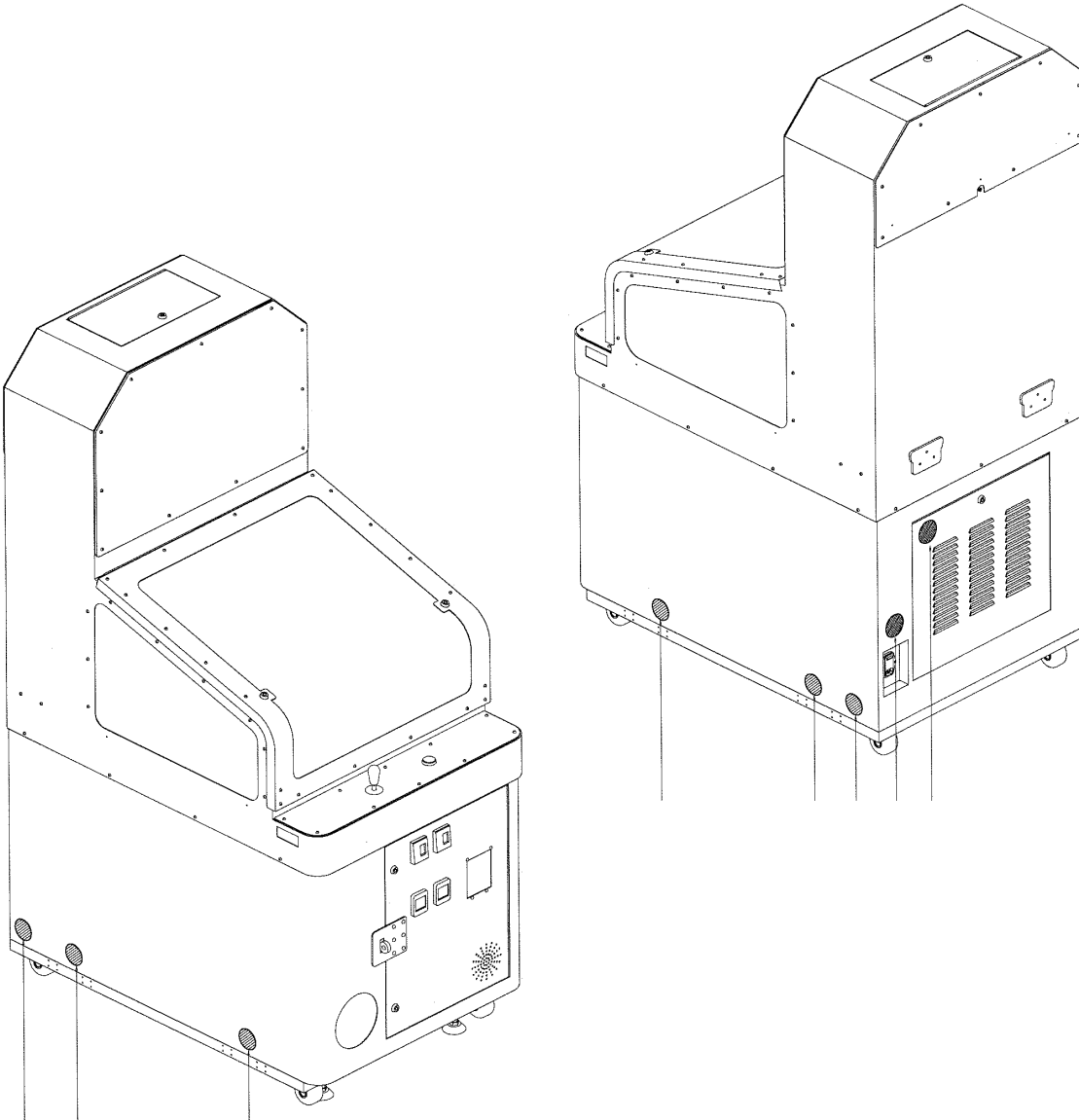
- Level The Machine By Adjusting Caster.



- IF You Operate This Machine Without Fixing Adjusters Fixing Nut,
It Can Cause An Accident Or Machine



6. LOCATION OF STICKERS



8. TEST MODE

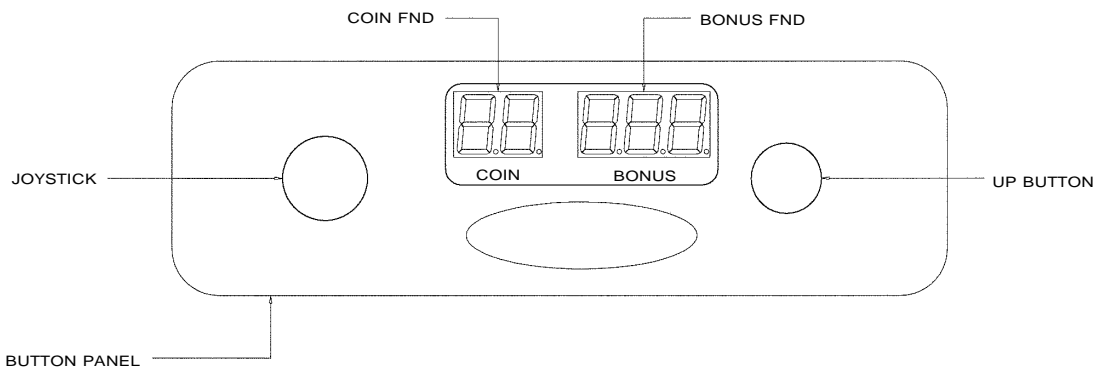
3-1. TEST DESCRIPTION

NO.	SUBJECT	CONTENTS
0	Test Finish	Exit The Test Mode.
1	Korean PCM Test	Test The Sound Effect In Korean.
2	English PCM Test	Test The Sound Effect In English.
3	Sensor Test	Test All The Sensors.
4	Counter Test	Test The Counter.
5	Coin Test	Test The Coin Mechanism.
6	FND Test	Test FND.
7	Auto Test	Test The Device By Auto Play.
8	Play Test	TEST Actual Game Play.
9	Capsule Dispenser Test	Test The Capsule Dispenser.
10	Elevator Test	Test The Elevator.

3-2. PUTTING GAME INTO TEST MODE

1. Open the front door and turn on the AC power switch on the service panel.
(Refer to 9-9-1. Front Door Ass'y & Service Panel.)
2. Wait until FND on the button panel does not blink any more.
3. Press the test button switch on the service panel to execute test mode.

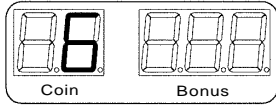
3-3. FND



NO.	SUBJECT	CONTENTS
0	Coin FND	Indicate The Type Of Test Mode. (00~10)
1	Bonus FND	Indicate The Subtype Of The Appropriate Test Mode.
2	Joystick	Select The Type Of Test Mode. (Right:UP, Left: Down)
3	Up Button	Use This To Decide The Test Mode Or Return To Previous Step.

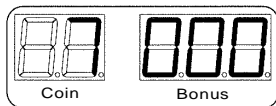
8. TEST MODE

8 - 4 - 7. TEST MODE NO. 6 : FND TEST



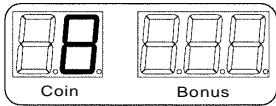
Select 6 on the Coin FND with the joystick and press the UP Button, then the Coin FND and Bonus FND blink with regular pattern. Press the UP Button again to finish the appropriate mode and return to the previous step.

8 - 4 - 8. TEST MODE NO. 7 : AUTO TEST



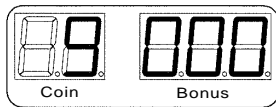
Select 7 on the Coin FND with the joystick and press the UP Button, then 7 on Coin FND blinks. Except the capsule dispenser and Elevator auto play the number of play is indicated on the Bonus FND. Press the UP Button again to finish the appropriate mode and return to previous step.

8 - 4 - 9. TEST MODE NO. 8 : PLAY TEST



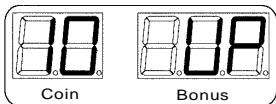
Select 8 on the Coin FND with the joystick and press the UP Button, then 8 on Coin FND blinks. Game can be played just once. Finish the appropriate mode after one game and return to the previous step.

8 - 4 - 10. TEST MODE NO. 9 : CAPSULE SUPPLIER TEST



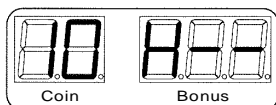
Select 9 on the Coin FND with the joystick and press the UP Button, then 9 on Coin FND blinks. First move the joystick right to operate the capsule dispenser. Subsequently when you move the joystick right, the appropriate number is indicated on the Bonus FND and the capsule dispenser does not operate after capsules as much as indicated number are discharged. Press the UP Button to finish the test mode. Refer to 8-2. How To Test Mode for reoperation.

8 - 4 - 11. TEST MODE NO. 10 : ELEVATOR TEST



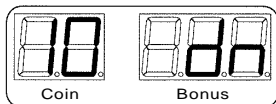
START TO OPERATE IN UP MODE.

Select 10 on the Coin FND with the joystick and press the UP Button, then 10 on the Coin FND blinks. Move the joystick left to operate the Elevator upward as the left Bonus FND indicates.



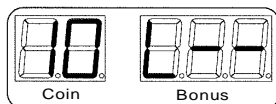
FINISH TO OPERATE IN UP MODE (HIGHEST POINT)

When the Elevator moves to the highest point, the indicator shows the letter as the left Bonus FND.



START TO OPERATE IN DOWN MODE.

Move the joystick right to operate the Elevator downward as the left Bonus FND indicates.

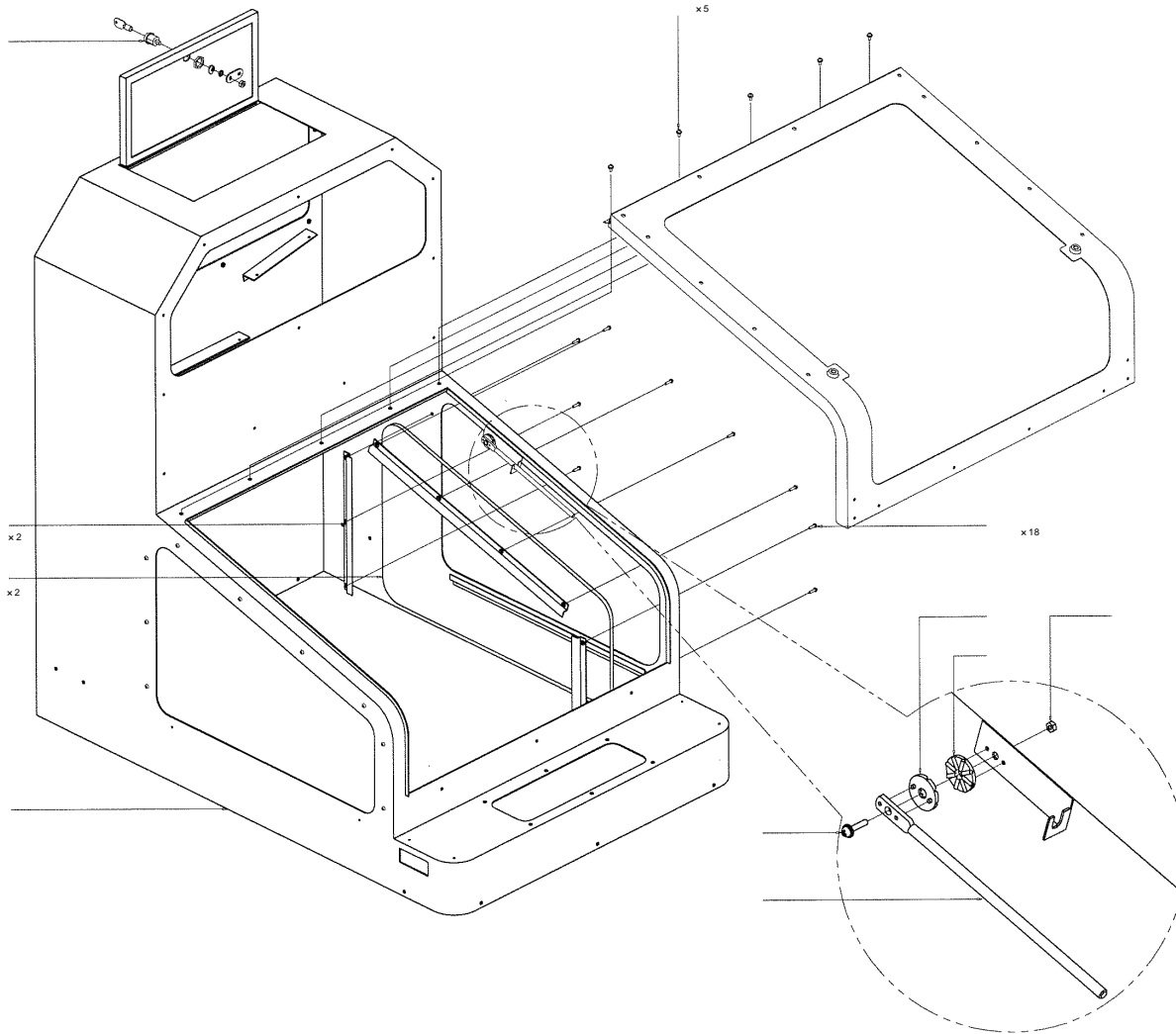


FINISH TO OPERATE IN DOWN MODE (LOWEST POINT)

When the Elevator moves to the lowest point, the indicator shows the letter as the left Bonus FND. Press the UP Button again to finish the appropriate mode and return to the previous step

9. ASSEMBLING PLAN

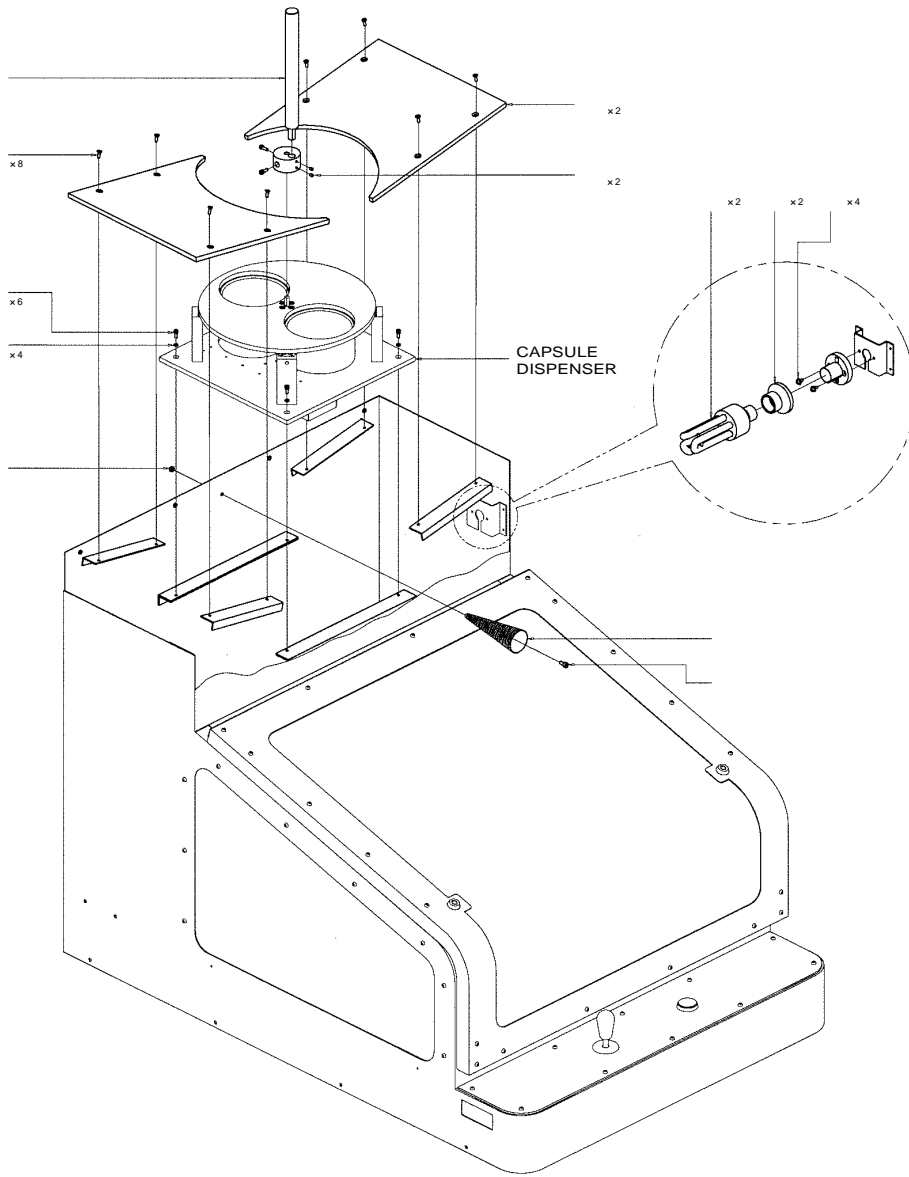
9 - 1 - 2. SIDE GLASS & FACE SUPPORT PIN



NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	TOP CASE	YELLOW	1	MMALOME030
2	SIDE GLASS	GLASS 8.0t	2	MMALOGLA003
3	SIDE GLASS FIXING BRACKET	THREE KIND	2	MMALOME031-33
4	FACE SUPPORT PIN	SUM21, 8	1	MJ210PR0001
5	FACE SUPPORT BUSHING - L	ACETAL	1	MJ210PLA062
6	FACE SUPPORT BUSHING - R	ACETAL	1	MJ210PLA064
7	KEY ASS ' Y	8779	1	AZZZOKEY003
8	HEXAGON SOCKET BUTTON HEAD CAP SCREW	M4 x 8	18	
9	SEM ' S SCREW	M4 x 10	5	
10	SEM ' S SCREW	M4 x 20	1	
11	HEXAGON FLANGE NUT		M4	1

9. ASSEMBLING PLAN

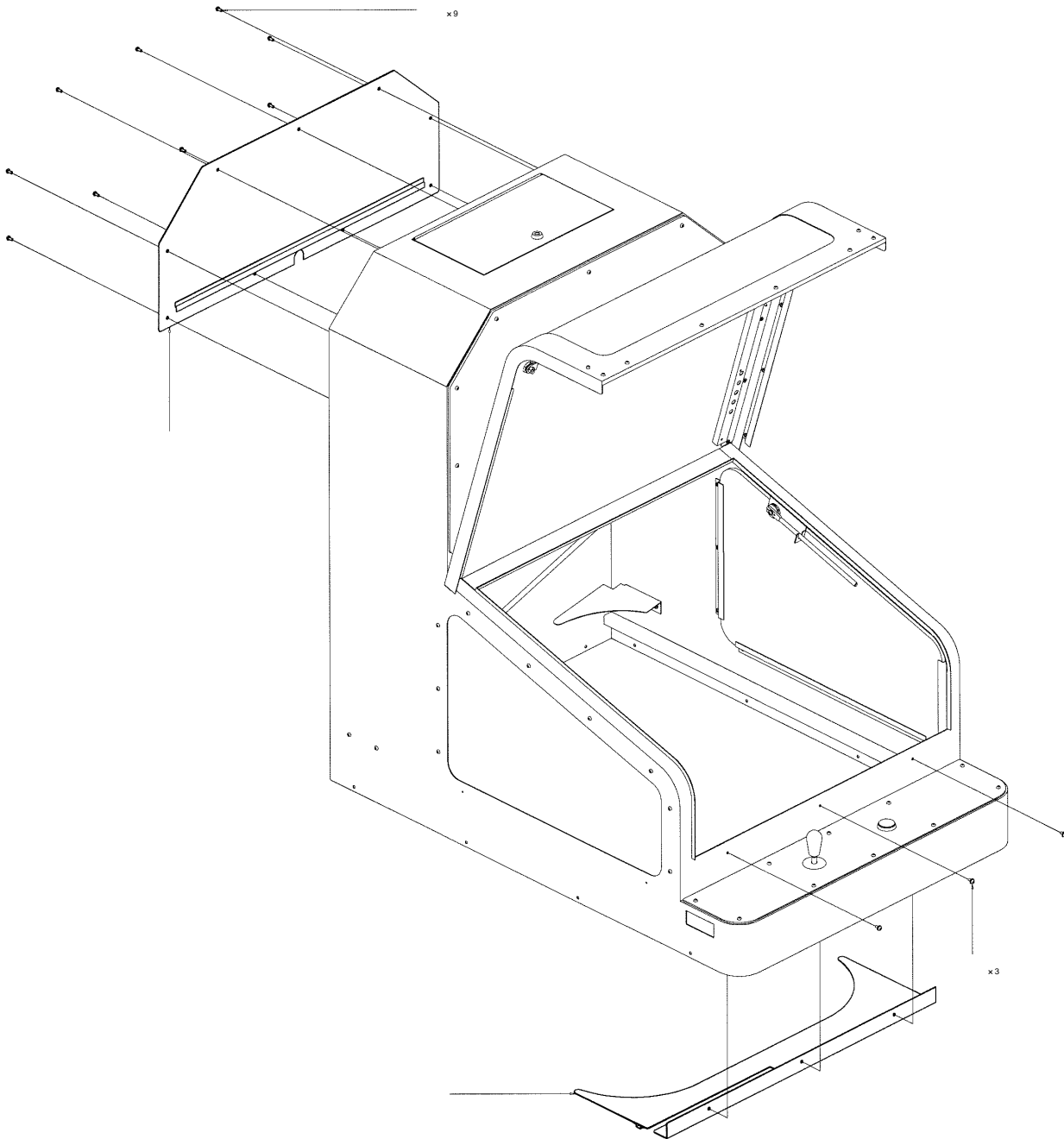
9 - 1 - 4. CAPSULE DISPENSER & LAMP



NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	CAPSULE GUIDE ACRYL	ACRYL 8.0t	2	MMALOACR018
2	BLOCK SPRING	Ni PLATED	1	MMALOSPR001
3	LAMP	3WAVE 110V 20W	2	MELEOLAM005
4	SOCKET	AC 3WAVE SOCKET	2	MELEOSOC001
5	CAPSULE SUPPLIER ATTACH SHAFT	BASE, SHAFT	1	MMALOACR019
6	HEXAGON SOCKET HEAD CAP BOLT	M5 x 15	1	
7	HEXAGON SOCKET HEAD CAP BOLT	M4 x 10	6	
8	SEM ' S SCREW	M4 x 10	4	
9	FLAT HEAD MACHINE SCREW	M4 x 12	8	
10	HEXAGON SOCKET SET SCREW	M4 x 6	2	
11	CAP NUT	M5	1	
12	SPRING WASHER	M4	4	

9. ASSEMBLING PLAN

9-1-6. REAR COVER & COVER BRACKET



NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	REAR COVER	YELLOW	1	MMALOMEP040
2	X COVER BRACKET	YELLOW	1	MMALOMEP042
3	HEXAGON SOCKET BUTTON CAP BOLT	M4 x 8	9	
4	SEM' S SCREW	M4 x 10	3	

9. ASSEMBLING PLAN

9 - 2 - 1. X - AXIS ARM(PART LIST)

NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	X SENSOR BRACKET L	LEFT	1	MMALOPRO031
2	X SENSOR BRACKET R	RIGHT	1	MMALOPRO033
3	X SENSOR CHECK PLATE	SUS 0.8t	2	MMALOPRO050
4	X SHAFT BRACKET L	Zn Plated	1	MMALOPRO075
5	X SHAFT BRACKET R	Zn Plated	1	MMALOPRO077
6	X SHAFT	Cr Plated	1	MMALOPRO102
7	X SUPPORT BRACKET	Ni Plated	1	MMALOPRO025
8	X WIRE ROLLER A		1	MMALOPRO066
9	X WIRE ROLLER B ASS' Y		1	MMALOPRO011
10	X WIRE ROLLER BUSHING	BRASS	1	MMALOPRO103
11	X WIRE SPRING		1	MZZZOSPR008
12	WIRE		1	MZZZOWIR001
13	X PIN GUIDE BRACKET	Zn PLATED	2	MMALOPRO035
14	X PIN	Zn PLATED	2	MMALOPRO065
15	X PIN RETURN SPRING		2	MZZZOSPR011
16	MOTOR	KGC - 080 - 3429C	1	MMALOMOT003
17	PHOTO SENSOR	LG - 217L3	2	MELEOPHO007
18	LM BEARING	SC16UUUS	2	MZZZOBEA021
19	SEM' S SCREW	M6 x 15	2	
20	SEM' S SCREW	M5 x 20	1	
21	SEM' S SCREW	M5 x 15	8	
22	SEM' S SCREW	M4 x 20	2	
23	SEM' S SCREW	M4 x 10	6	
24	SEM' S SCREW	M3 x 10	5	
25	FLAT HEAD MACHINE SCREW	M4 x 8	4	
26	HEXAGON SOCKET SET SCREW	M4 x 6	2	
27	BEARING	686Z	1	
28	HEXAGON FLANGE NUT	M5	1	

9. ASSEMBLING PLAN

9 - 2 - 2. FINGER PART(PART LIST)

NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	FINGER ACRYL	ACRYL 5.0t	1	MMALOACR001
2	Y GUIDE BLOCK	A6061	1	MMALOPRO022
3	LM BEARING	LM10UUUS	2	MZZZOBEA019
4	LM BEARING	LM8UUUS	1	MZZZOBEA020
5	Y - SENSOR CHECK PLATE	Zn PLATED	2	MMALOPRO050
6	FINGER SHAFT	SUJ - 2	1	MMALOPRO024
7	FINGER STOPPER	Zn PLATED	1	MMALOPRO028
8	FINGER RETURN SPRING		1	MAAAOSPR006
9	FINGER CUSHION BRACKET	Zn PLATED	1	MMALOPRO052
10	FINGER CUSHION	URETHANE	1	MMALOPRO072
11	FINGER		1	MMALOPRO039
12	FINGER BRACKET	Ni PLATED	1	MMALOPRO071
13	FINGER SPACER	Mc - Nylon	2	MMALOPRO045
14	FINGER PIN	Ni PLATED	1	-
15	FINGER SPACER PIN	Ni PLATED	1	MMALOPRO047
16	FINGER SHAFT BRACKET	Zn PLATED	1	MMALOPRO070
17	FINGER SHAFT COVER BRACKET	Ni PLATED	1	MMALOPRO085
18	FINGER GUIDE BLOCK	BRASS	1	MMALOPRO030
19	FINGER BEARING BLOCK L	Ni PLATED	1	MMALOPRO074
20	FINGER BEARING BLOCK U	Zn PLATED	1	MMALOPRO073
21	GUIDE PIN	Ni PLATED	2	MMALOPRO032
22	GUIDE PIN SPRING	8	2	MZZZOSPR005
23	FINGER HOUSING	BRASS	1	MMALOPRO104
24	FINGER HOUSING COVER	Ni PLATED	1	MMALOPRO105
25	PERCENTAGE BOLT	M4 x L20	1	
26	HEXAGON SOCKET HEAD CAP BOLT	M6 x 15	2	
27	HEXAGON SOCKET HEAD CAP BOLT	M6 x 10	1	
28	HEXAGON SOCKET HEAD CAP BOLT	M4 x 10	1	
29	HEXAGON SOCKET HEAD CAP BOLT	M3 x 8	2	
30	HEXAGON SOCKET HEAD CAP BOLT	M4 x 8	3	
31	FLAT HEAD MACHINE SCREW	M4 x 8	4	
32	SEM S SCREW	M5 x 8	1	
33	SEM S SCREW	M4 x 15	1	
34	SEM S SCREW	M4 x 8	10	
35	SEM S SCREW	M3 x 15	1	
36	SEM S SCREW	M3 x 8	2	
37	BEARING	696Z	3	
38	BEARING	694Z	2	
39	BEARING	693Z	2	
39	WASHER	M8	1	
40	SPRING WASHER	M6	5	
41	PIN	3	1	

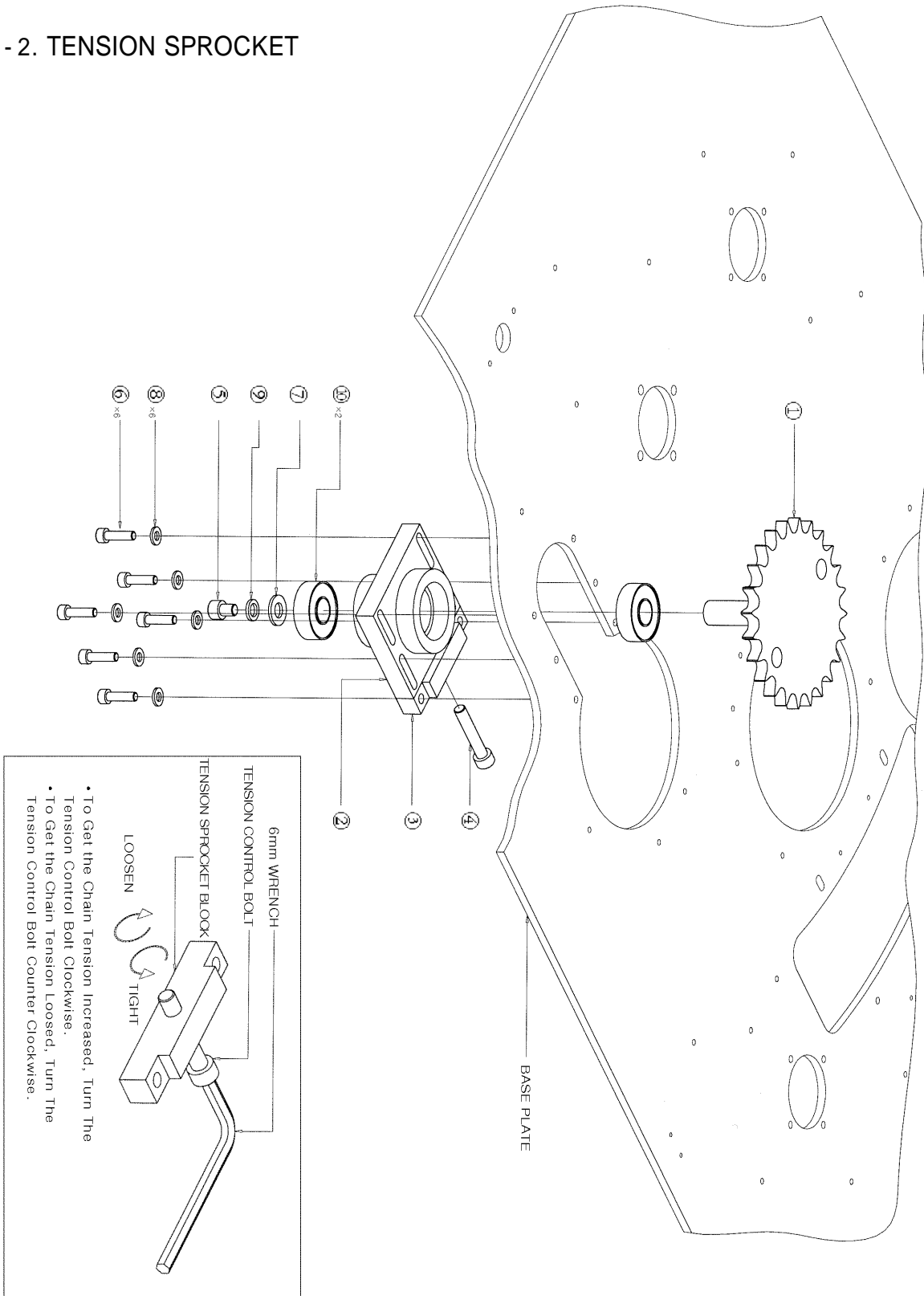
9. ASSEMBLING PLAN

9 - 2 - 3. Y - AXIS ARM(PART LIST)

NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	Y GUIDE BRACKET	Ni PLATED	1	MMALOPRO023
2	Y GUIDE BRACKET SUPPORT	PC	2	MMALOPRO069
3	Y SHAFT BRACKET U	Ni PLATED	1	MMALOPRO081
4	Y SHAFT BRACKET L	Ni PLATED	1	MMALOPRO040
5	Y SHAFT	Cr PLATED	2	MMALOPRO020
6	Y MOTOR BRACKET	Ni PLATED	1	MMALOPRO017
7	TIMMING PULLY - A	15XL025	1	MMALOPRO049
8	TIMMING PULLY - B	15XL025	1	MMALOPRO051
9	Y SENSOR BRACKET U	Zn PLATED	1	MMALOPRO042
10	Y SENSOR BRACKET L	Zn PLATED	1	MMALOPRO044
11	Y SHAFT BRACKET U COVER	Ni PLATED	1	MMALOPRO046
12	Y SHAFT BRACKET L COVER	Ni PLATED	1	MMALOPRO048
13	X GUIDE ROLLER	ACETAL	4	MMALOPRO056
14	X GUIDE ROLLER COLLAR	Zn PLATED	4	MMALOPRO057
15	BELT COVER BRACKE	Ni PLATED	1	MMALOPRO019
16	FINGER FIX BRACKET	Ni PLATED	1	MMALOPRO021
17	TIMMING BELT	490 - XL025	1	MMALOBEL001
18	PHOTO SENSOR	LG - 217L3	2	MELEOPHO007
19	MOTOR	KGC - 100 - 3429C	1	MMALOMOT001
20	HEXAGON SOCKET HEAD CAP BOLT	M8 x 25	4	
21	HEXAGON SOCKET HEAD CAP BOLT	M6 x 30	1	
22	HEXAGON SOCKET HEAD CAP BOLT	M5 x 40	4	
23	HEXAGON SOCKET HEAD CAP BOLT	M5 x 10	4	
24	HEXAGON SOCKET HEAD CAP BOLT	M4 x 10	2	
25	SEM' S SCREW	M5 x 8	4	
26	SEM' S SCREW	M4 x 15	2	
27	SEM' S SCREW	M4 x 8	18	
28	FLAT HEAD MACHINE SCREW	M4 x 8	2	
29	FLAT HEAD MACHINE SCREW	M3 x 8	3	
30	CAP NUT	M8	4	
31	HEXAGON FLANGE NUT	M6	1	
32	WASHER	M6	1	
33	WASHER	M5	8	
34	C - RING	NO.19	4	
35	BEARING	628Z	4	
36	BEARING	686Z	2	

9. ASSEMBLING PLAN

9 - 3 - 2. TENSION SPROCKET



- To Get the Chain Tension Increased, Turn The Tension Control Bolt Clockwise.
- To Get the Chain Tension Loosed, Turn The Tension Control Bolt Counter Clockwise.

9. ASSEMBLING PLAN

9 - 3 - 2. TENSION SPROCKET(PART LIST)

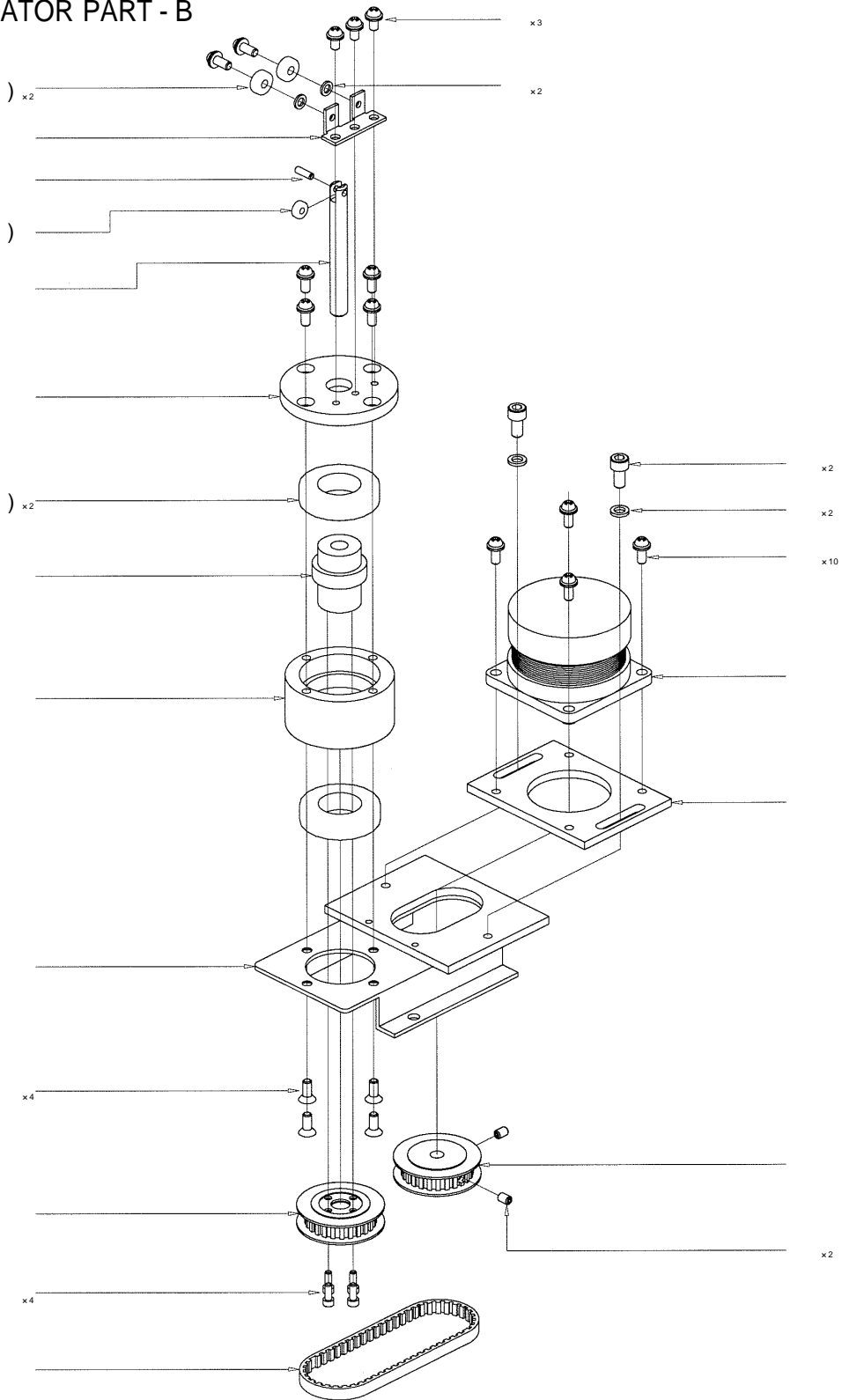
NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	TENSION SPROCKET	RS50X24T	1	MMALOPRO106
2	TENSION SPROCKET HOUSING	Zn PLATED	1	MMALOPRO107
3	TENSION SPROCKET BLOCK	Zn PLATED	1	MMALOPRO108
4	HEXAGON SOCKET HEAD CAP BOLT	M8 x 45	1	
5	HEXAGON SOCKET HEAD CAP BOLT	M8 x 10	1	
6	HEXAGON SOCKET HEAD CAP BOLT	M6 x 22	6	
7	WASHER	M8	1	
8	WASHER	M6	6	
9	SPRING WASHER	M8	1	
10	BEARING	6203Z	2	MZZOBEA009

9 - 3 - 3. MAIN SPROCKET(PART LIST)

NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	MAIN SPROCKET	RS50X24T	1	MMALOPRO080
2	MAIN SPROCKET PLATE	Zn PLATED	1	MMALOPRO084
3	MAIN SPROCKET BLOCK	Zn PLATED	1	MMALOPRO082
4	BLOCK CURRENT PIN	Zn PLATED	4	MMALOPRO086
5	COUPLING	Zn PLATED	1	MMALOPRO014
6	SUNK KEY		1	MMALOPRO006
7	MAIN MOTOR	G080W(1600RPM)	1	MMALOMOT008
8	MOTOR SUB	S8KA150B10	1	MZZZOMOS003
9	ROUND HEAD MACHINE SCREW	M5 x 65	4	
10	HEXAGON SOCKET HEAD CAP BOLT	M5 x 15	4	
11	HEXAGON SOCKET HEAD CAP BOLT	M4 x 15	4	
12	HEXAGON FLANGE NUT	M5	4	
13	WASHER	M5	4	
14	SPRING WASHER	M5	4	
15	C - RING	SHAFT TYPE NO. 17	1	
16	BEARING	6203Z	2	MZZOBEA009

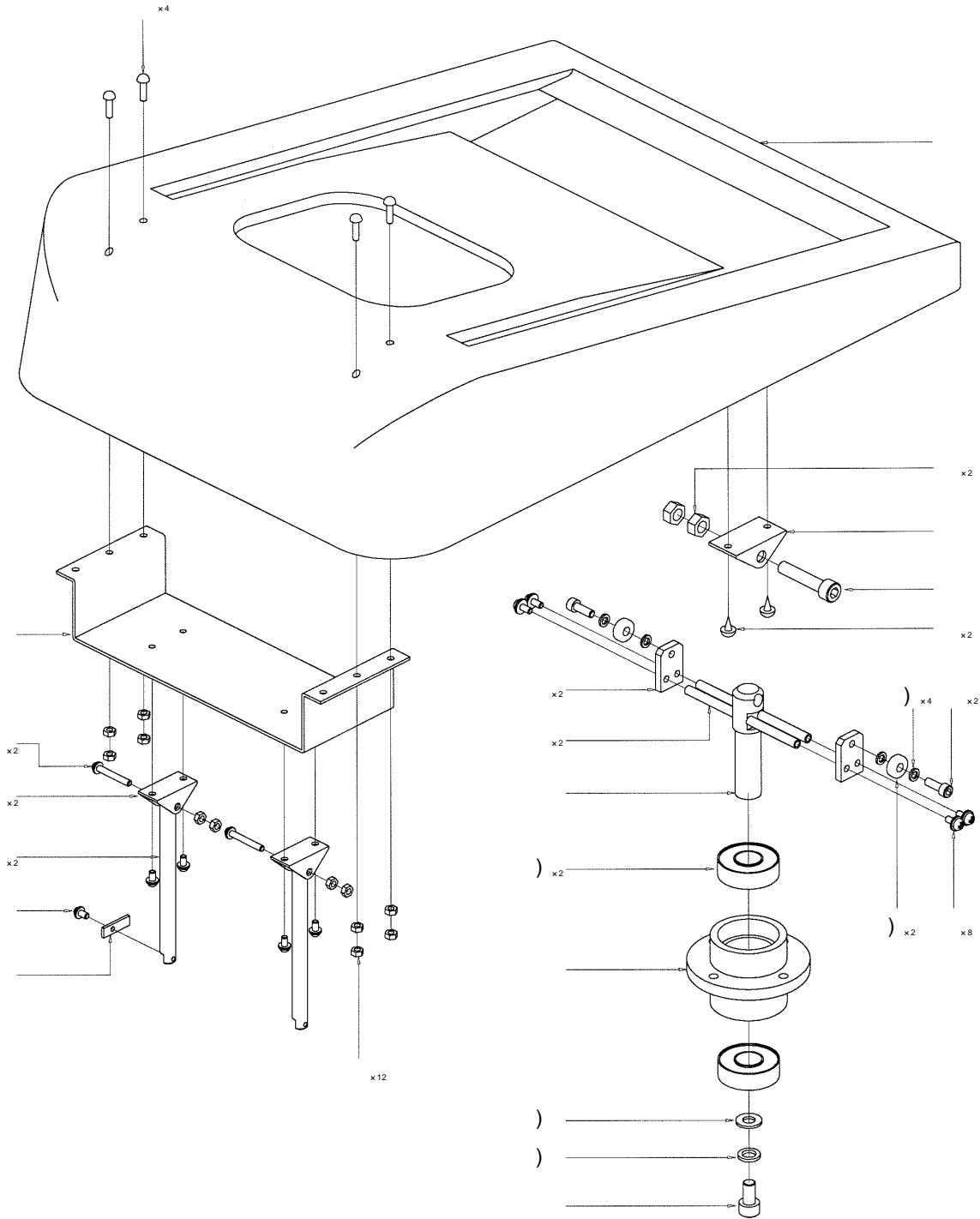
9. ASSEMBLING PLAN

9 - 4 - 2. ELEVATOR PART - B



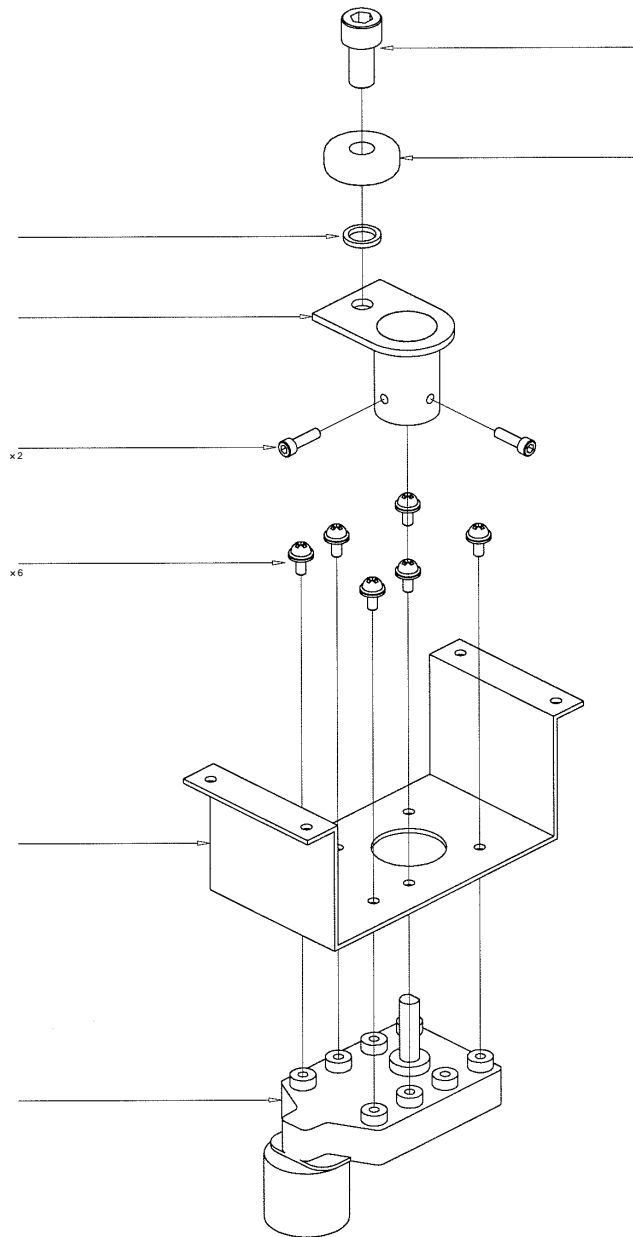
9. ASSEMBLING PLAN

9-5. VIBRATION ASSEMBLY



9. ASSEMBLING PLAN

9-6. CAM MOTOR ASSEMBLY



NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	CAM ASS'Y	Zn PLATED	1	MMALOPRO012
2	CAM MOTOR BRACKET	SUS	1	MMALOPRO131
3	MOTOR	KGE - 3448D(1:083)	1	MMALOMOT004
4	HEXAGON SOCKET HEAD CAP BOLT	M10 x 20	1	-
5	HEXAGON SOCKET HEAD CAP BOLT	M4 x 15	2	-
6	SEM' S SCREW	M4 x 10	6	-
7	SPRING WASHER	M10	1	-
8	BEARING	6200Z	1	-

9. ASSEMBLING PLAN

9-7. CAPSULE DISPENSER ASSEMBLY(PART LIST)

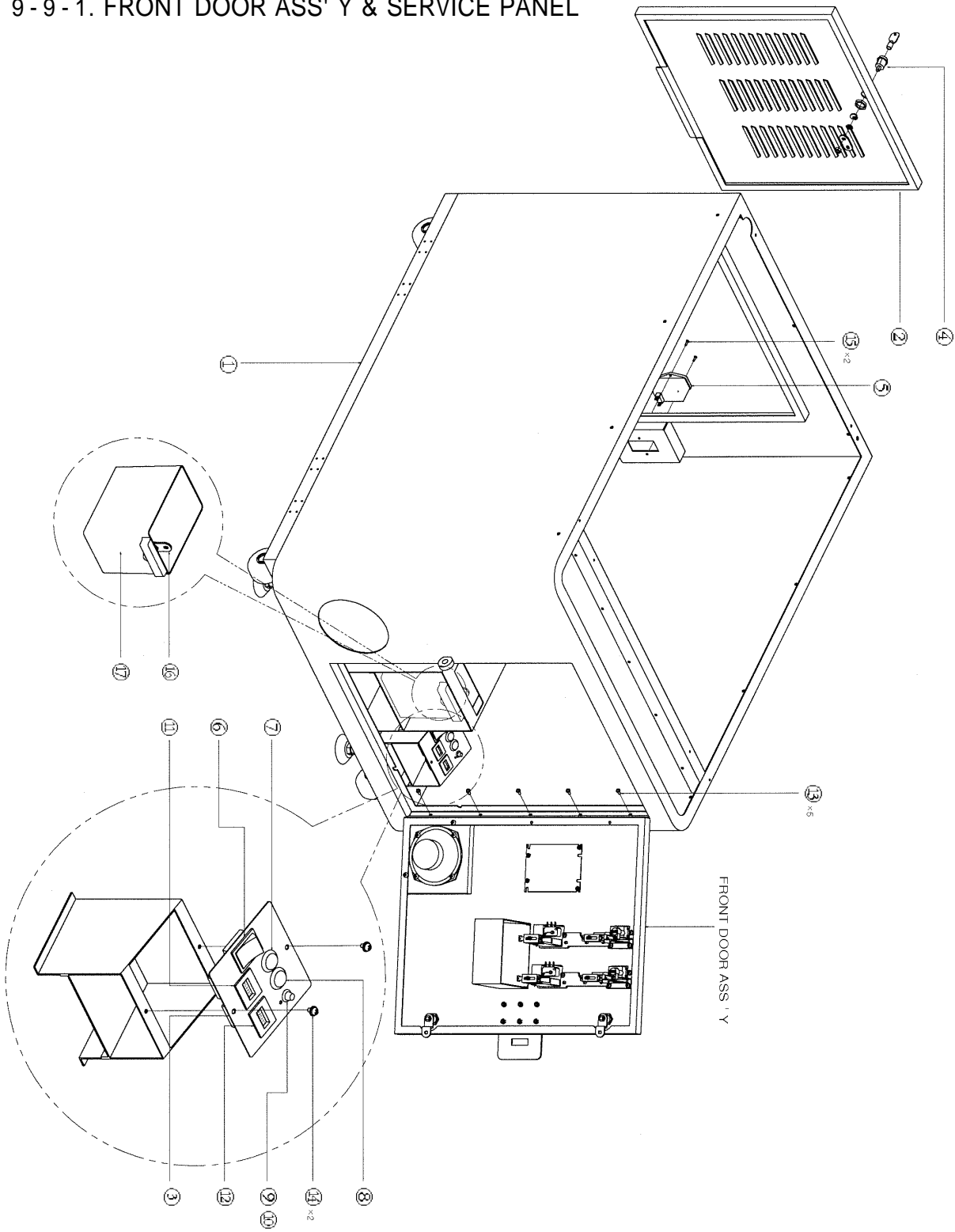
NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	FEEDER BASE	ACRYL	1	MMALOACR016
2	ROTATOR	ACRYL	1	MMALOACR017
3	FEEDER MAIN SHAFT	Zn PLATED	1	MMALOPRO127
4	FEEDER MOTOR COVER	SUS	1	
5	ROTATOR SUPPORT	ACRYL	4	MMALOMEP055
6	ROTATOR BUSHING	BRASS	4	MMALOMEP056
7	SWITCH BRACKET	Ni PLATED	1	MMALOMPE053
8	MICRO SWITCH	CNR - 05H - 03	1	MELEOMIC002
9	MOTOR	KGE - 3448D(1:615)	1	MMALOMOT007
10	FLAT ROUND SOCKET HEAD BOLT	M6 x 20	4	
11	HEXAGON SOCKET HEAD CAP BOLT	M4 x 12	2	
12	SEM' S SCREW	M4 x 10	14	
13	SEM' S SCREW	M3 x 20	2	
14	FLAT HEAD MACHINE SCREW	M4 x 15	4	
15	FLAT HEAD MACHINE SCREW	M4 x 10	4	
16	SPRING WASHER	M6	4	
17	BEARING	6900Z	4	MZZZOBEA029

c

9. ASSEMBLING PLAN

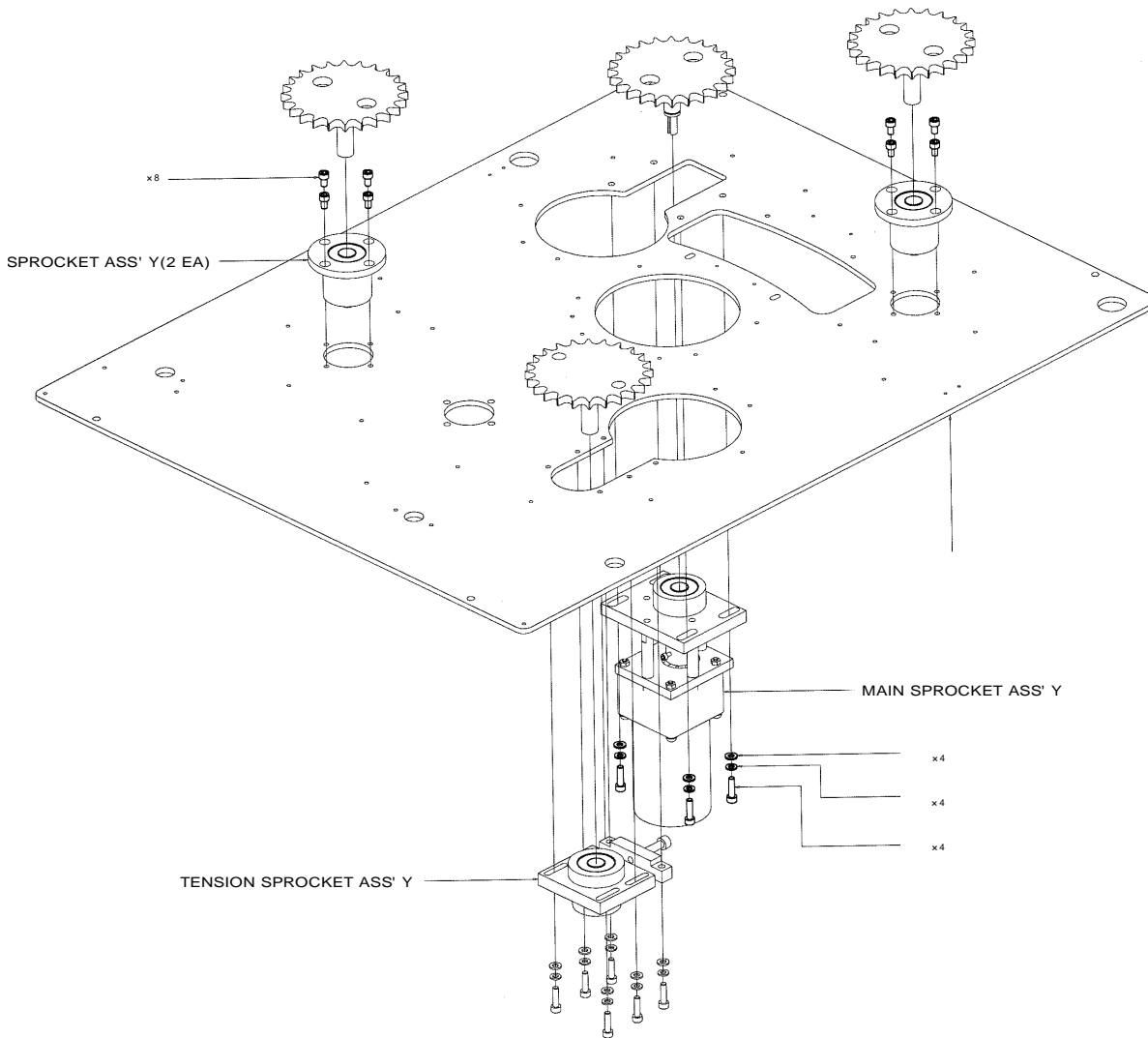
9-9. MAIN CASE ASSEMBLY

9-9-1. FRONT DOOR ASS'Y & SERVICE PANEL



9. ASSEMBLING PLAN

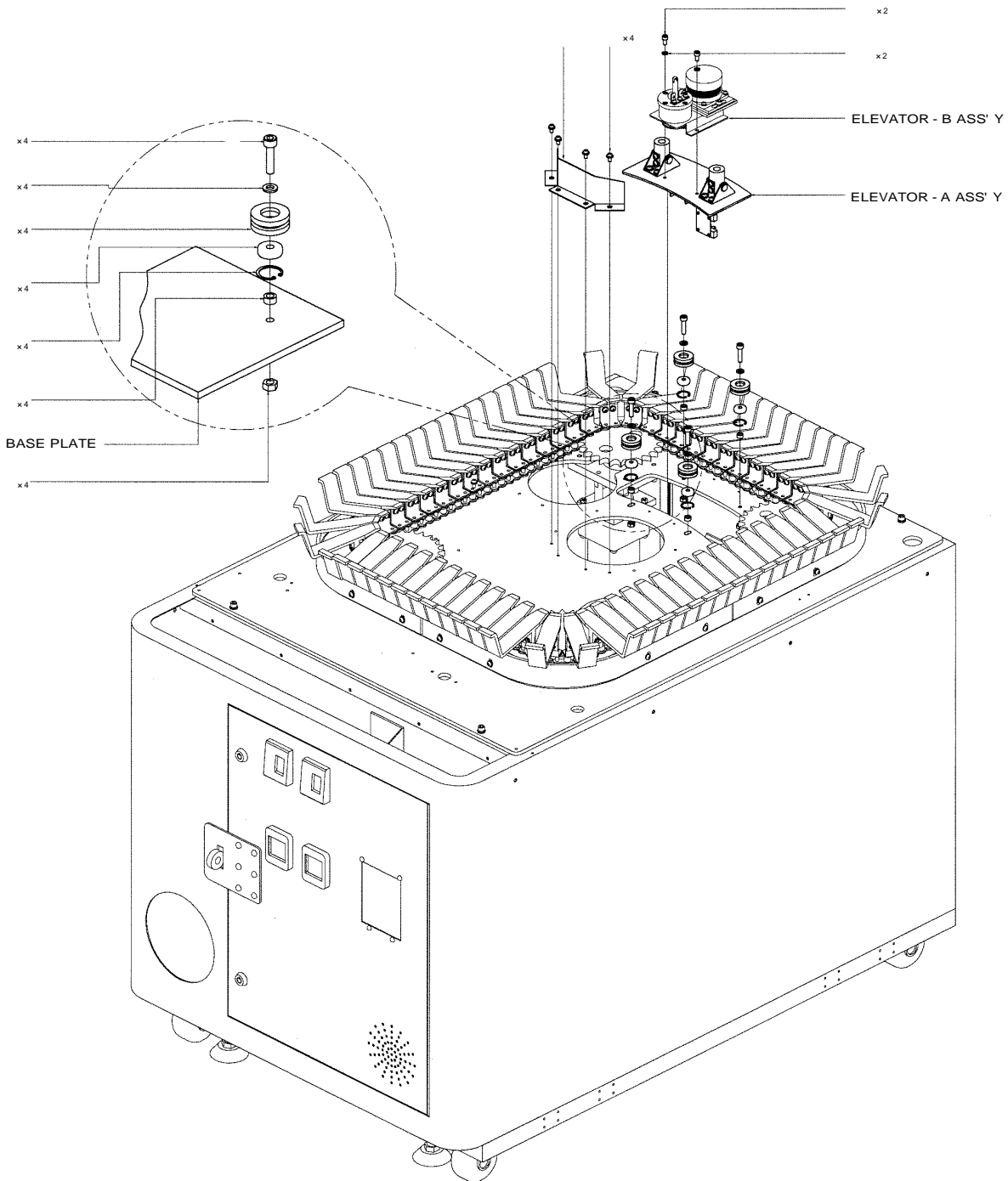
9 - 9 - 2. SPROCKET PARTS



NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	BASE PLATE	Zn PLATED	1	MMALOME044
2	HEXAGON SOCKET HEAD CAP BOLT	M6 x 22	4	
3	HEXAGON SOCKET HEAD CAP BOLT	M6 x 10	8	
4	WASHER	M6	4	
5	SPRING WASHER	M6	4	

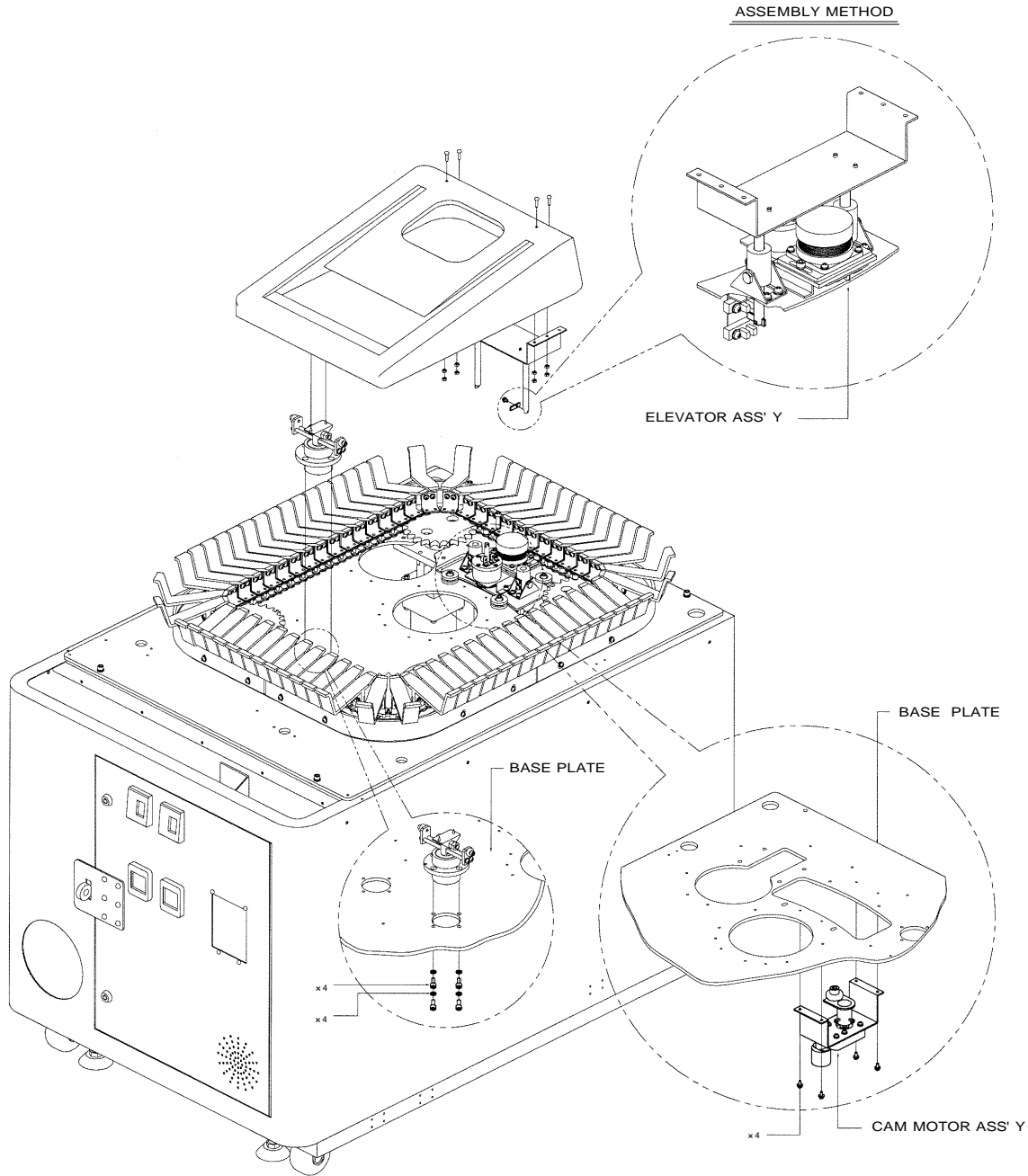
9. ASSEMBLING PLAN

9 - 9 - 4. ELEVATOR ASS' Y & ROLLER ASS' Y



9. ASSEMBLING PLAN

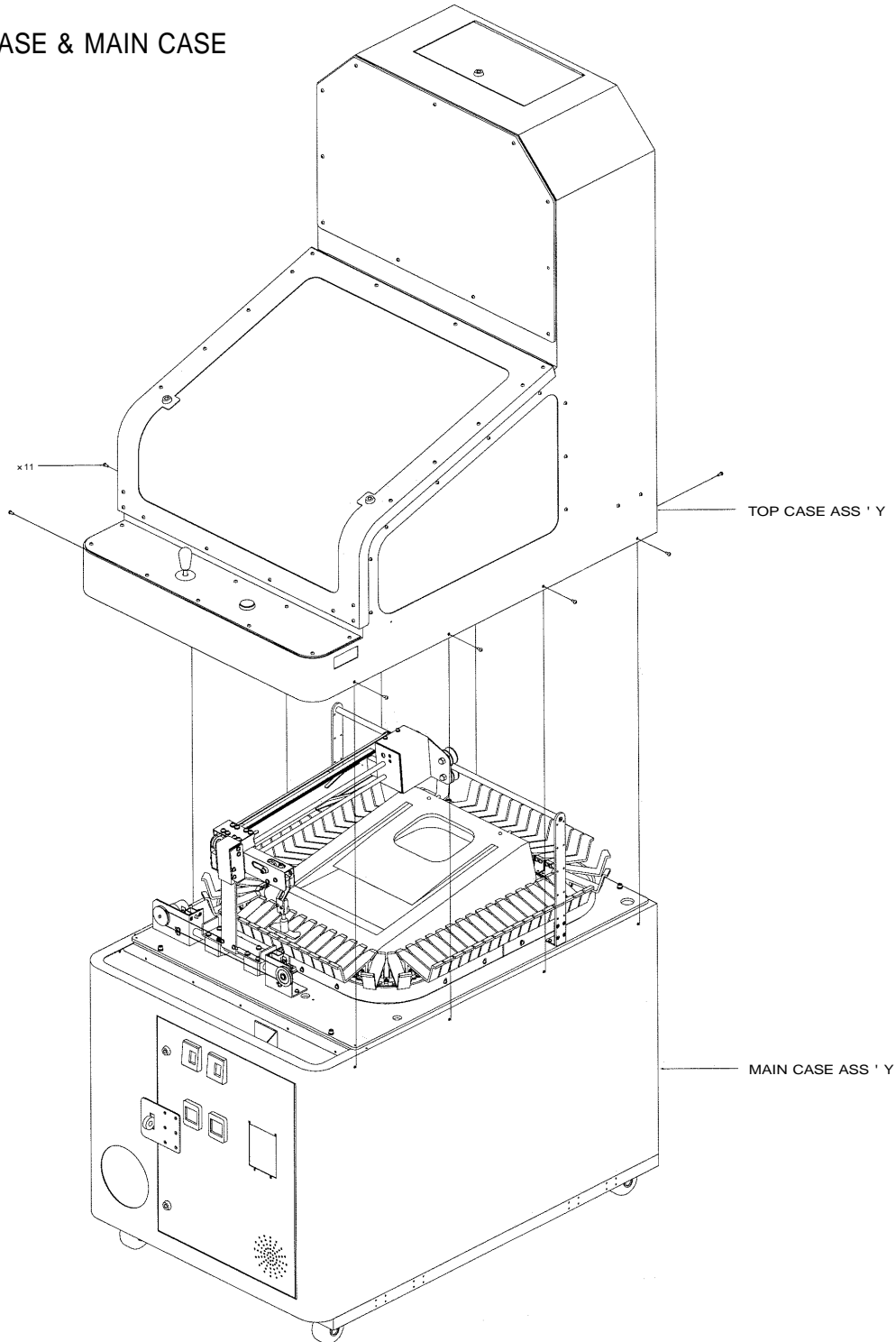
9 - 9 - 5. VIBRATION & CAM MOTOR ASS' Y



NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	HEXAGON SOCKET HEAD CAP BOLT	M6 × 10	4	
2	SEM' S SCREW	M4 × 10	4	
3	SPRING WASHER	M6	4	

9. ASSEMBLING PLAN

9 - 9 - 7. TOP CASE & MAIN CASE



NO.	PART NAME	SPEC.	QUANTITY	CODE NO.
1	HEXAGON SOCKET BUTTON HEAD CAP SCREW	M4 x 15	11	

A
B
C
D
E
F