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INTRODUCTION

Thank you for buying Kubota Vending Machine. This manual describes the guide, work instruction, service, installation and list of parts. Read carefully and follow the instruction so as to understand the features and functions of installation and use of Vending Machine.

This Vending Machine is used to sell can- and PET bottle-packed drinks by using Malaysian paper money and the coins.

All of selling system, pricing and machine features can be controlled using the control system. Identification of machine unit is adjusted to the model and serial number on the Plate Brand attached on the front lower part of the door. Keep the serial number, in case of any issues or questions of the Vending Machine, it must refer to the model and serial number of the Vending Machine.

After reading this Service Manual, keep it safely and refer to it if you do not understand something. In case of questions of installation, operation, assembly and replacement of parts, please contact local dealer or service agent.

Thank you.

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1 SAFETY CHAPTER

Meaning of displays and symbols

Meaning of displays and symbols used in this manual are as follows:

🔥 WARNING

Incorrect handling may cause serious injury or death to user.

Incorrect handling may cause injury to user, or cause physical damage.

% Physical damage means any damage to facilities near the machine.

• Examples of symbols



Indicating caution (danger, warning). An icon inside or word behind the symbol shows caution. Left mark indicates caution of electric shock.



Indicating restriction. An icon inside or word behind the symbol shows restriction. Left mark indicates no touching restriction.

Indicating constraints. An icon inside or word behind the symbol shows constraint. Left mark indicates unplug the power.

Safety Tips

Important contents on safety. Please read before using and follow the instructions.

A specialist contractor or installer should do installation and re-installation.

• Poor installation may cause fall accident, electricity shock, fires.

• Always plug into grounded three pole socket.

• Do not connect ground to gas pipes, water pipes, lightning rods, phone wires.

Grounding resistance must be less than 4Ω.

• Incomplete grounding may cause electricity shock.

SAFETY CHAPTER

Important contents on safety. Read it carefully before using.



2-1 UNIT SPECIFICATIONS

		KB-GS20-S	KB-GS30-S	KB-GS24-S				
E D x i	Height (mm)	1846	1846	1846				
te en	Width (mm)	999	1160	1160				
rt ni	Depth (mm)	712 (45+667)	794 (45+749)	839 (90+749)				
a o n s	Required rear clearance (mm)	50	50	50				
En	npty Weight (Kg)	235 kg	290 kg	285 kg				
Se	election	20 Selection (20 Selection Button)	30 Selection (30 Selection Button)	24 Selection (24 Selection Button)				
Ve	ending Mechanic	5 rows serpentine rack	6 rows serpentine rack	6 rows serpentine rack				
		(Selenoid Operated)	(Selenoid Operated)	(Selenoid Operated)				
	Coin mech	Factory default not equipped	Factory default not equipped	Factory default not equipped				
	e-money	-	-	-				
	Bill validator	Factory default not equipped	Factory default not equipped	Factory default not equipped				
	Power	Single phase AC230V 50Hz	Single phase AC230V 50Hz	Single phase AC230V 50Hz				
	Cooling Unit AC-3C1101E		AC-3C1102E	AC-3C1102E				
Re	Refrigerator/volume R134a/220 g		R134a/220 g	R134a/220 g				
	Lamp LED x 4 pcs		LED x 4 pcs	LED x 3 pcs				

KB-GS20-S



2-1 UNIT SPECIFICATIONS

KB-GS30-S



2-1 UNIT SPECIFICATIONS

KB-GS20-S



2-1 UNIT SPECIFICATIONS

KB-GS24-S



2-1 UNIT SPECIFICATIONS

KB-GS20-S



2-1 UNIT SPECIFICATIONS

KB-GS30-S



2-1 UNIT SPECIFICATIONS

KB-GS24-S





2-1 UNIT SPECIFICATIONS KB-GS20-S / KB-GS30-S





2-1 UNIT SPECIFICATIONS

KB-GS24-S



2-2 WIRING DIAGRAM



2-2 WIRING DIAGRAM

KB-GS30-S



2-2 WIRING DIAGRAM

KB-GS24-S



3-1 SPACE INSTALLATIONS

KB-GS20-S



3-1 SPACE INSTALLATIONS

KB-GS30-S





3-1 SPACE INSTALLATIONS

KB-GS24-S



3-2 INSTALLATION SPECIFICATIONS

Terms of Installation

	Lloit	KB-G	S20-S	KB-G	S30-S	KB-GS	624-S
	Unit	Empty	Full	Empty	Full	Empty	Full
G : Weight	kg	235	405	290	525	285	
h : Height of the center of gravity	mm	932	1080	952	1104	952	1104
CD : Distance from the center of gravity	mm	278	300	311	339	311	339
to center of the front legs			000	011	000		
CW : Distance from the center of gravity	mm	101	500	560	572	560	572
to center of the left side leg	111111	434	500	509	575	509	515
DPD : Distance between front and rear legs	mm	6	02	6	84	6	84
DPW : Distance between left and right legs	mm	9	61	. • 1	122	1	122
h' : Height of the center	mm	9	25	9	25	9	25
H x W x D : Exterior dimension	mm	1846 x 9	99 x 712	1846 x 1	160 x 794	1846 x 1	160 x 794
H1 : Height including projections	mm	18	946	18	346	18	346

* Below specifications are of fully loaded condition as in chart above



- "A", "h"."h" is based on when maximum weight H=1896mm. Weight when fully loaded is that of when loaded with product of maximum mass. When leveling screws are lowered or utilization of anchoring plate (counter mass) will improve the center of gravity height, therefore requires recalculation
- If in case when improving the "A" length by placing a counter weight inside the vending machine, beware of tipping forward when the door is open.

	KB-G	S20-S	KB-0	GS30-S	KB-GS	S24-S
	Length "A"	Type Anchor	Length "A"	Type Anchor	Length "A"	Type Anchor
Ground floor A1=0.5h-C	240	900	213	1050	213	1050
Floor 1 and above A2=0.86h-C	629	1300	610	1300	610	1300
Upper floor from roof AU=2h-C	1861		1868		1868	
• C is distance when it is reversed Other calculation of A distance se	forward, backwa parately or conf	ard and sidewar act the maker	d.			
Please refer to preference of terr symbols of anchor plate model	ns of installatior	n manual for				

3-2 INSTALLATION SPECIFICATIONS

Terms of Installation

KB-GS20	
Poor logs (measure for tipping forward)	
	 fixing clamp : type E two pieces (pulling strength → single piece : 1267 [N], two pieces 63 M10 anchor : two pieces → minimum rim clearance 40mm M12 anchor : two pieces → minimum rim clearance 50mm (pulling strength → single piece : 2534 [N], two pieces : 1267 [N])
Front legs (measure for tipping backward)	 fixing clamp : type E two pieces (pulling strength → single piece : 2554 [N], two pieces : 1255 [N], two pieces 62: M10 anchor : two pieces → minimum rim clearance 40mm M12 anchor : two pieces → minimum rim clearance 50mm (pulling strength → single piece : 2511 [N], two pieces : 1255 [N])
KB-GS30	
Rear legs (measure for tipping forward)	 fixing clamp : type E two pieces (pulling strength → single piece : 1279 [N], two pieces 640 M10 anchor : two pieces → minimum rim clearance 40mm M12 anchor : two pieces → minimum rim clearance 50mm (pulling strength → single piece : 2558 [N], two pieces : 1279 [N])
Front legs (measure for tipping backward)	 fixing clamp : type E two pieces (pulling strength → single piece : 1246 [N], two pieces 623 M10 anchor : two pieces → minimum rim clearance 40mm M12 anchor : two pieces → minimum rim clearance 50mm (pulling strength → single piece : 2492 [N], two pieces : 1246 [N])
KB-GS24-S	$\sim 0^{\circ}$
For back feet (holding from falling forw	 fixing clamp : type E 2 pcs (pulling strenght→1 pcs:1279[N], 2 pcs: 640] M10 anchor : 2 pcs →minimum edge distance: min 40mm M12 anchor : 2 pcs →minimum edge distance: min 50mm (pulling strength →1pcs:2558[N], 2 pcs: 1279[N])
For front feet (holding from falling back	 fixing clamp : type E 2 pcs (puling strenght→1pcs:1246[N], 2 pcs: 623[N M10 anchor : 2 pcs →minimum edge distance: min 40mm M12 anchor : 2 pcs →minimum edge distance: min 50mm (pulling strenght →1pcs:2492[N], 2 pcs: 1246[N])

3-2 INSTALLATION SPECIFICATIONS

Location

Please be aware of following:

- Any part of the machine shall not stick out on the public road.
- Please consult the dealer if locating the vending machine in following locations.
- High exposure to salt breeze or corrosive gas.
- Great amount of shakes and vibrations.
- Please consult the local fire department if locating the vending machine in following locations.

Any part of the

machine shall not stick out

least 50mm

Public

road

A" length

- Near a fire protective device.
- Places which use flammable substances or gas.
- Petrol station.
- Evacuation routes or equipment.

Required space

Make sure there is enough space to open the front door for loading. Vending machine also needs clearance for adequate air flow for the condensing unit in order to perform effectively.

Indoor locations

Please use anchoring plate in locations where anchoring is not possible. Refer to the Installment requirements for anchoring plate models and "A" length. If it is impossible to secure enough "A" length, please apply additional fixation.



Vending machine must be secured on all four corners by an anchor or cramps to avoid tipping over.

Installing the vending machine

Leveling adjustment

Turn the leveling screw to adjust the tilt of the vending machine to within 1 degrees for both lateral and horizontal direction. Also, the "L" height must be within 86 mm for safety.



3-3 ABOUT TRANSPORTATION

ATTENTION WHEN STOCKING AND SHIPPING

For stable machine, please follow provisions below:

- Do not laid horizontally.
- Beware of fall and unstable (adjust the iclination within15°).
- Do not shaken.
- Caution wet, as rain.

ABOUT HANDLING WITH FORKLIFT

When transporting a vending machine by forklift or handlift, follow the instruction below to avoid falling accident.



3-4 INSTALLATION GROUNDING

Grounding is necessary to prevent electric shock in case of electric leakage. Always ground the vending machine properly. The vending machine use voltage 230V and frequency of 50 Hz.

4-1 TYPE SPECIFICATION AND LOADING CAPACITY

KB-GS20-S



[Capacity by Column]

Type of	Diameter	Volume								Со	lum	in n	umł	ber									Total
product	mm	ml	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	TUtal
Slim Can	53	190	25	23	20	18	15	25	23	20	18	15	25	23	20	18	15	Ι	Ι	Ι	-	—	303
Shiri Cari	55	250	25	23	20	18	15	25	23	20	18	15	25	23	20	18	15		Ι	Ι	—	—	303
		280	19	18	16	14	12	19	18	16	14	12	19	18	16	14	12		-	-	—	—	237
Wide Can	66	350	19	18	16	14	12	19	18	16	14	12	19	18	16	14	12	19	18	16	14	12	316
		500	—	—	—	-	-	19	18	16	14	12	19	18	16	14	12	19	18	16	14	12	237
	60	280	20	18	16	14	12	20	18	16	14	12	20	18	16	14	12		—	—	—	—	240
PET Bottle	09	500	-	—	_	—	—	18	17	15	13	11	18	17	15	13	11	18	17	15	13	11	222
	69.1~73	600	—	—	-		—	-	—	—	—	—	—		-		-	17	16	14	12	10	69

Notes:

- 1. Above "Capacity by Column" table is based on Japanese standard packaging.
- Capacity may vary depending on the stockpile condition inside the rack.
- 2. Depending on the packaging size and hardness, some merchandise may not be suitable for sale.
- 3. 600mIPET Bottle is max H259.2mm, φ73mm.

4-1 TYPE SPECIFICATION AND LOADING CAPACITY

KB-GS30-S



[Capacity by Column]

Type of	Diameter	Volume													(Colu	mn I	num	ber														Total
product	mm	ml	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TULAI
Slim Con	53	190 🔷	27	24	22	19	17	14	27	24	22	19	17	14	27	24	22	19	17	14	27	24	22	19	17	14	Ι	—	Ι	_	_	—	492
Siin Can	55	250	27	24	22	19	17	14	27	24	22	19	17	14	27	24	22	19	17	14	27	24	22	19	17	14	—	—		—	—	—	492
		280	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	—	—	-	_	—	—	380
Wide Can	66	350	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	475
		500	—	—	—	—	—	—	—	—	—	—		—	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	285
	60	280	21	19	17	15	13	11	21	19	17	15	13	11	21	19	17	15	13	11	21	19	17	15	13	11		—	Ι	—	—	—	384
PET Bottle	09	500	-	-	-	—	Ι	Ι	—	-	—	Ι	-	—	20	17	16	14	12	10	20	17	16	14	12	10	20	17	16	14	12	10	267
	69.1~73	600	—	—	—	—	-	Ι	_	—	—	Ι	_	—	—	—	—	Ι	_	_	—	Ι	_	-	_	—	18	16	15	13	11	9	82

Notes:

- 1. Above "Capacity by Column" table is based on Japanese standard packaging.
- Capacity may vary depending on the stockpile condition inside the rack.
- 2. Depending on the packaging size and hardness, some merchandise may not be suitable for sale.
- 3. 600mlPET Bottle is max H259.2mm, φ73mm.

4-1 TYPE SPECIFICATION AND LOADING CAPACITY

KB-GS24-S



[Types and Number of Column Load Capacity]

Type of	Diameter	Volume											Colu	umn	num	nber											Total
product	mm	m L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOLAI
Slim Con	52	190	27	24	22	19	17	14	27	24	22	19	17	14	27	24	22	19	17	14	-	-	-	-	-	-	369
Shini Can	55	250	27	24	22	19	17	14	27	24	22	19	17	14	27	24	22	19	17	14	-	-	-	-	-	-	369
Sleek Can	58	325	24	20	19	17	15	12	24	20	19	17	15	12	24	20	19	17	15	12	24	20	19	17	15	12	428
		280	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	-	1	-	-	-	-	285
Wide Can	66	350	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	380
		500	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	21	18	17	15	13	11	380
	60	280	21	19	17	15	13	11	21	19	17	15	13	11	21	19	17	15	13	11	-	-	-	-	-	-	288
PET Bottle	09	500	20	17	16	14	12	10	20	17	16	14	12	10	20	17	16	14	12	10	20	17	16	14	12	10	356
	69.1 ~ 73	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	16	15	13	11	9	82

Note :

- 1. The table "Types and Number of Column Load Capacity" above is based on Japanese packing standard. Capacity is subject to change, depending on reserve condition within rack.
- 2. Depending on packaging size and hardness, other than types of products above, there are some products inappropriate to sell.
- 3. Maximum height of 600 ml PET bottle is 259.2 mm and diameter 73 mm.

4-2 HOW TO SET UP THE STOCKER

- 1. Verify the product for sales suitability. Please refer to the sales suitability labeling for verification.
- 2. Adjust the loading slot.

[Adjust the height.] Second row only. (Except Ex.Wide racks) Adjust the loading plate by repositioning deeper when loading small products.(under ϕ 50mm)

Other products do not require adjustment.

[Adjust the width.]

- 1 Place the product on the right corner of the slot.
- 2 Adjust the left loading guide to suit the length of the product.
- ③ If there still is a gap, move the right loading guide to left.

Adjustment is unnecessary for stockers without loading guide. If there is no loading guide on the right, procedure ③ is unnecessary.

[How to move the loading guide.] Front and second rows 1 Lift the guide to release the tabs. 2 Adjust to product length. Make sure to mate both tabs in the correct slot.



Loading plate

other rows

- 1 Lift the inner side of the
- guide to release the tabs.
- 2 Adjust to product length.
- 3. Adjust the ejection guide. Only front and second rows are adjustable. (Except Ex.Wide racks) Adjust the ejection guide to lower position when loading small products (under of 50mm)



- Other products do not require adjustment.
- 4. Install the product one by one, horizontally. Product with a cap must be installed with the cap facing left.
- 5. Make sure that the first product installed has settled horizontally at the bottom of the stocker.



Fig.1 Stocker overview

Guide



5-1 KEYBOARD DESCRIPTIONS AND FUNCTION



- 2. Next counter will be displayed by pressing the key again.
- 3. Indicated counter will return to that of total after the final counter.



5-2 SPECIFIED KEY FUNCTION LIST

Key	Operation	Indicator	Function	Note
	press once	г 5 Г Т	Single Test Vend Coin Test Vend (option)	×C
Test	press twice	rsra	Consecutive Test Vend (Selection button) Consecutive Test Vend (Keyboard operated)	columns selectable
	press 3 times	гѕгз	Rapid Consecutive Test Vend (Selection button) Rapid Consecutive Test Vend (Keyboard operated)	columns selectable
	press 4 times	ГЅГЧ	Sequential Test Vend	
	press once		View/Clear Total Vend Count and Vend Count per Column	0 – 999999
	press twice		View/Clear Total Sales and Sales per Column	0 – 99999900
	press 3 times		View/Clear Group Vend Count	0 – 999999
	press 4 times		View/Clear Group Sales Value	0 – 99999900
	press 5 times		View/Clear Vend Count per Pricing	0 – 999999
	press 6 times		View/Clear Sales Value per Pricing	0 – 99999900
Sales	press 7 times		View/Clear Count of Test Vends	0 – 999999
Count	press 12 times		View Lifetime Vend Count	0 – 999999
	press 13 times		View Lifetime Vend Count for Purchase by Cash	0 – 999999
	press 14 times		View Lifetime Vend Count for Purchase by Other Payments	0 – 999999
	press 15 times		View Lifetime Sales Value	0 – 99999900
	press 16 times		View Lifetime Sales by Cash	0 – 99999900
	press 17 times		View Lifetime Sales by Other Payments	0 – 99999900
Stop	press once	Н	Set/View Suspend Vending Hours/Column	0 - 24hours (desired column)
Volid	press twice		Set/View Set Suspend Vending Mode	0-1
Alter- nate Sales	press once	Gr	Set/View Set Alternate Sales	desired columns (30 Groups)
Set	press once, then	E L	Set/View Space to Sales	desired column
Column	press (Check / Clear)	E L	Preset Factory Setting	
Set	press once		Set/View Product Pricing	0 – 999.9 (by 100)
Price	press twice		Set/View Product Pricing by Cards	0 – 999.9 (by 100)
Diagno -stičs /Clear	press once		View/Clear Occurring Error Code	refer to Error Code List

Basics of the Specified Key Operations

"Specified Keys" include : (Test), (Sales Count), (Stop Vend), (Alternate Sales), (Set Column), (Set Price), (Diagnostics / Clear) keys
Specified Keys may have single or multiple functions.
In multi function keys, functions are selected by number of times the key is pressed.
When Specified Key is pressed again while operating one function, it will move on to next function. It will return to the first function when the key is pressed while in the last function.
Before moving on to next Specified Key operation, complete current operation by pressing (END) key..

5

CONTROLLER

5-3 MODE KEY FUNCTION LIST

	1 12 1	E (
Operation	Indicator	Function	Data
	1-01	Batch Mode (Space to Sales Pattern) Setting	1-3 = available patterns 99 = Factory setup
	1 - 0 2	Group Count Setting	1 - 15 groups
	1-03	Multiple Purchase Setting	0 - 9 (0 = infinite)
	1-04	Set Maximum Loading Capacity	0 - 99
	1-09	Automatic Change Release Time	0-30 secs (0 = infinite)
	1-10	All Columns Free-vend	0 = No, 1 = Yes
	-	View / Clear Error History	
	1 - 12	Enter Refill Quantity	0 – 99
	1-13	Set Consume-by Date	0 - 98 days 99 = simultaneous
MQDE	1 - 14	Check for Columns with Expired Consume-by Date	
Start	1-15	Free Column Setting	
	1 - 18	Suspend Session While Loading (or Door Open) (SSL)	0 = No, 1 = Yes
V	1-26	Vend Restriction on Columns with Expired Consume-by Date	0 = No, 1 = Yes
UP	1-51	Show Reason of "Sold-out"	0 = hide,1 = show
DOWN	2 - 0 1	School Timer Hours Setting	7 hours for each pattern A, B, and C
	2 - 0 2	Select School Timer Operation Pattern	0, A, B, C
V	2 - 0 3	Lighting Saving Hours	Hours between 0-24
	2-04	Refrigeration Unit Power Saving Hours	Hours between 0-24
SEI	2-05	Set Clock	00:00 - 23:59
	2-06	Set Month and Date	1/1 – 12/31
V V	2-07	Set Year	Four digits
	2 - 10	Bill Validator Blocking Hours	Hours between 0-24
UP	2 - 14	Fake "No Change" Lamp During Night Time	Hours between 0-24
DOWN	2 - 13	Light Saving by Days	1 = Sunday, 2 = Monday, 3 = Tuesday, 4 = Wednesday, 5 = Thursday, 6 = Friday, 7 = Saturday, - = none
1	3-0 (Lighting Management Mode Setting	0 = Turning off priority 1 = Lighting priority 2 = Only the timer control 3 = Only the sensor control 4 = Timer control priority
	3-02	Daylight Sensor Sensitivity Setting	1 = Latest $2 = Late$ $3 = Intermediate$ $4 = Early$ $5 = Earliest$
	3-03	Set Counter per Groups	Desired counter
	<u> 3 - 0 4</u>	Set Compartment Temperature Level	0 - 10
	3-05	Lighting Failure Check	0 = No, 1 = Yes
	3-11	Mute Digital Display Beeper	0 = on, 1 = off, 2 = on (low volume)
	3 - 30	Selection Button Illumination Pattern	0-6
	3 - 3 /	Selection Button Illumination Hours	Hours between 0-24

5-4 SPECIFIED KEY OPERATIONS

Single Test Vend

Proce -dure	Key	Indication	Operation
1	Test	Single Test Test 1	Press Test Key.
2	\mathbf{O}	Single Test Test 1	Press selection button, selected product will be vended.
3		Single Test Column 8	Press UP or DOWN Key to select column number.
4	Mode start/stop	Single Test Column 8	Press Mode Key, a product from selected column will be vended.
5	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

• Procedures 3 and 4 are unnecessary when test vending by selection buttons.

Test vending by selection button will become unavailable when procedure 3 is performed.
 Test vending may be suspended for about 7-10 minutes to avoid overheating the solenoid.

• The sign (" ") means flickering.

Coin Test Vend (Option)

Proce -dure	Key	Indication	Operation
1	Test	Single Test Test 1	Press Test Key.
2	Insert Coin	Single Test Test 1	Insert coin.
3	\mathbf{O}	Single Test Test 1	Product could be test vended.
4	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

Coin test vend will not be included in the count.

• The sign (" ") means flickering.

Consecutive Test Vend

(Select column using selection button)

Proce -dure	Key	Indication	Operation
1	Test Press × 2	Consecutive Test Test 2	Press Test Key twice.
2	(No. 7 selection button) (No.12 selection button)	Consecutive Test Test 2	Press selection button to select test column. Multiple columns could be selected. Press selection button again to cancel selection.
3	Mode start/stop	Consecutive Test Column 7	Press Mode Key to begin testing.
4	Mode start/stop	Consecutive Test Column 7	Press Mode Key to cease testing. Press Mode Key again to resume.
5		Consecutive Test Column 7 J. Selected Column Consecutive Test Column 12	Test session will be ended in 3 vend operations after sold out. Return to procedure 2 to continue testing other columns. If multiple columns had been selected during procedure 2, proceed on from procedure 3.
6	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

Column selection by UP / DOWN Keys will become unavailable once column is selected by selection buttons.

Test vending may be suspended for 3 minutes to avoid overheating the solenoid.
 The sign (" ") means flickering.

Consecutive Test Vend

(Select column using remote keyboard)

Proce -dure	Key	Indication	Operation	
1	Test Press× 2	Consecutive Test Test 2	Press Test Key twice.	
2		Consecutive Test Column 3	Press UP or DOWN key to select test column. Only one column could be selected.	
3	Mode start/stop	Consecutive Test Column 3	Press Mode Key to begin testing.	
4	Mode start/stop	Consecutive Test Column 3	Press Mode Key to cease testing. Press Mode Key again to resume.	
5		Consecutive Test Column 3	Test session will be ended in 3 vend operations after sold out.	
6	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.	

 Column selection by UP / DOWN Keys will become unavailable once column is selected by selection buttons.

• Test vending may be suspended for 3 minutes to avoid overheating the solenoid.

The sign (" ") means flickering.

Rapid Consecutive Test Vend

(Select column using selection button)

Proce -dure	Key	Indication		Operation
1	Test Press × 3	Rapid Test Test	3	Press Test Key three times.
2	(No. 7 selection button) (No. 12 selection button)	Rapid Test Test	3	Press selection button to select test column. Multiple columns could be selected. Press selection button again to cancel selection.
3	Mode start/stop	Rapid Test Column	7	Press Mode Key to begin testing.
4	Mode start/stop	Rapid Test Column	7	Press Mode Key to cease testing. Press Mode Key again to resume.
5		Rapid Test Column ↓ Selected Column Rapid Test Column	7	Test session will be ended in 3 vend operations after sold out. Return to procedure 2 to continue testing other columns. If multiple columns had been selected during procedure 2, proceed on from procedure 3.
6	END	31/10/201212 T 5678	":"34 90	Press END Key to return to normal operation.

 Column selection by UP / DOWN Keys will become unavailable once column is selected by selection buttons.

• Test vending may be suspended for 3 minutes to avoid overheating the solenoid.

• The sign (" ") means flickering.

5-4 SPECIFIED KEY OPERATIONS

Rapid Consecutive Test Vend

(Select column using remote keyboard)

Proce -dure	Key	li	ndication		Operation
1	Test Press × 3	Rapid	Test Test	3	Press Test Key three times.
2		Rapid	Test Column	3	Press UP or DOWN key to select test column. Only one column could be selected.
3	Mode start/stop	Rapid	Test Column	3	Press Mode Key to begin testing.
4	Mode start/stop	Rapid	Test Column	3	Press Mode Key to cease testing. Press Mode Key again to resume.
5		Rapid	Test Column	3	Test session will be ended in 3 vend operations after sold out.
6	END	31/10/ T	201212":"3 567890	4	Press END Key to return to normal operation.

Column selection by UP / DOWN Keys will become unavailable once column is selected by selection buttons.

Test vending may be suspended for 3 minutes to avoid overheating the solenoid.

The sign (" ") means flickering.

Sequential Test Vend

Proce -dure	Key	Indication	Operation
1	Test Press × 4	Sequential Test Test 4	Press Test Key four times.
2	Mode start/stop	Sequential Test Column 1	Press Mode Key to begin testing.
3	Mode start/stop	Sequential Test Column 3	Press Mode Key to cease testing. Press Mode Key again to resume.
4	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

• The sign (" ") means flickering.

View/Clear Total Vend Count and Count per Column

_				
	Proce -dure	Key	Indication	Operation
	1	Sales Count	01 Count TC 345678	Press Sales Count Key. Total number of vends from product purchase will be displayed.
	2	(No. 7 selection button)	01 Count-Column CL 7 123456	Press selection button to select column. Vend Count for the selected column will be displayed.
	3		01 Count-Column CL 8 123456	Press UP or DOWN Key to select column number.
	4	Diagnostics /Clear	C L R 0	Press Diagnostics/Clear Key to clear Total Vend Count and Vend Count for all columns.
	5	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

· Skip procedure 4 if not clearing data.

• "End" will appear on the display after shown data for the final column.

By clearing total vend count, count for total sales value and sales value per column will be cleared at the same time.

• If total vends exceed 6 digits, only the lower 6 digits will be displayed.

The sign (" ") means flickering.

View/Clear Group Vend Count

Proce -dure	Key	Indication	Operation
1	Sales Count Press × 3	03 Count-Group GC 1 123456	Press Sales Count Key three times. Count of vends from product purchase for the selected group will be displayed.
2		03 Count-Group GC 2 123456	Press UP or DOWN Key to select group number.
3	Diagnostics /Clear	CLR 0	Long press Diagnostics/Clear Key to clear Vend Count for all groups.
4	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

• Skip procedure 3 if not clearing data.

• "End" will appear on the display after shown data for the final group.

• By clearing Group Vend Count, Group Sales Value will also be cleared at the same time.

If total vends exceed 6 digits, only the lower 6 digits will be displayed.
 The sign ("") means flickering.

View Lifetime Vend Count

Proce -dure	Key	Indication	Operation
1	Sales Count Press × 12	12 Count-Total rC 901234	Press Sales Count Key twelve times. Lifetime count of vends from product purchase will be displayed.
2	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

• If total count exceeds 6 digits, only the lower 6 digits will be displayed.

• The sign (" ") means flickering.

Set/View Suspend Vending Hours/Column

Proce -dure	Key	Indication	Operation
1	Stop Vend	Suspend Column Hour 0	Press Stop Vend Key.
2		Suspend Column Hour *1*	Press UP or DOWN Keys to select hours.
3	SET	Suspend Column Hour 1	Press SET Key to confirm hours.
4	×	Suspend Column Hour 1	Press Selection button to select columns subject to this setting, Lamps of the selected columns will illuminate.
5	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

 \bullet To only view current setting, skip procedures 2~4 and press END Key.

• Suspend timer will not be enabled until procedure 5 is completed.

Hours on the display is total length of the suspending period; not remaining hours.
 Set up both, hours and columns completely.

When either hour is set to 0 or column is not selected, this function will not be enabled. • The sign (" ") means flickering.

5-4 SPECIFIED KEY OPERATIONS

Set/View Suspend Vending Mode

Proce -dure	Key	Indication	Operation
1	Press × 2	Suspend Mode Auto SetOFF 1	Press Stop Vend Key twice.
2		Auto Set ON "O"	Press UP or DOWN Key to select mode.
3	SET	Suspend Mode Auto Set ON 0	Press SET Key to confirm setting.
4	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

· Available settings:

- 0 : Enable automatic intervention
- 1 : Disable automatic intervention
- · Skip procedures 2 and 3 when only viewing current setting.

* When this function is set to 0 (Enable automatic intervention), whenever a column is refilled and recovers from sold-out condition, vending will automatically suspend vend according to "Set Suspend Vending Hours/Columns" setting.

• The sign (" ") means flickering.

Set/View Alternate Sales

Proce -dure	Key	Indication	Operation
1	Alternate	Alternate Sales Group 1	Press Alternate Sales Key.
2	Add Remove	Alternate Sales Group 1	Press Selection button of the desired column to add or remove to the selected alternate sales group.
3		Alternate Sales Group 2	Press UP or DOWN Key to select group.
4	Diagnostics /Clear	Alternate Sales Group 1	Long Press Diagnostics / Clear Key for more than 2 seconds to clear all alternate sales settings.
5	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

• "End" will appear on the display after reached the final group.

Press UP or DOWN Key to return to the beginning.

· Single column cannot be assigned to multiple alternate sales groups.

Columns with different pricing can not be assigned to similar alternate sales group.

• Skip procedure 2 when only viewing setting.

· Perform procedure 4 only when clearing all alternate grup settings.

• The sign (" ") means flickering.

Set/View Space to Sales

Proce -dure	Key	Indication	Operation	
1	Set Column	Column-Selection Column 1	Press Set Column Key. Vend lamps of all selection buttons connected to Column 1 will illuminate.	
2	Add Kemove	Column-Selection Column 1	Press desired selection button to add or remove from connection. Sold-out lamp will illuminate when a button is removed from the column.	
3		Column-Selection Column 2	Press UP or DOWN Key to change column number.	
4	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.	

· Selection button with Sold-out lamps turned on indicates that it is not connected to any column.

• "End" will appear on the display after reached the final column.

Skip procedure 2 if only viewing the setting.

• The sign (" ") means flickering.

Set/View Product Pricing

Proce -dure	Key	Indication	Operation
1	Set Price	Set Price 0.5	Press Set Price Key.
2		Set Price 0.6	Press UP or DOWN Key to select pricing.
3 3	(No.7 selection button)	Set Price 0.6	Press Selection button of the corresponding product to adopt the pricing. Multiple columns could be selected at once.
4	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.

Pricing Range RM 0– 999900
Skip procedure 3 if only viewing the setting.
Repeat procedures 2 and 3 to continuously set up other pricings.
If the machine is capable of cashless payment, press "Set Price" Key twice during procedure 1 to adjust price setting for purchase by cards.

The sign (" ") means flickering.

View/Clear Occuring Error Code

Proce -dure	Key	Indication	Operation	
1	Diagnostics /Clear	Bill COM err 71	Press Diagnostics/Clear Key. ""End"" will be displayed if there is no error.	
2			Press UP key to view next error code.	
3	END	3 1 / 1 0 / 2 0 1 2 1 2" : "3 4 T 5 6 7 8 9 0	Press END Key to return to normal operation	

· Error code will automatically clear when the error is repaired.

• If Diagnostics/Clear Key is long-pressed for more than 2 seconds while in procedure 2, all error codes will be cleared. However, errors that are not repaired shall reappear.

• The sign (" ") means flickering.

5 CONTROLLER

5-5 MODE KEY OPERATIONS

Group Count Setting

(1 - 02)

Proce -dure	Key	Indication	Operation	
1	Mode start/sto	"1" - 0 1	Press Mode Key.	
2	SET	Selection Mode 1-"01"	Press Set Key.	
3		Group Counts 1-"02"	Press UP or DOWN Key to select function number 2.	
4	SET	Group Counts Group "1"	Press Set Key. Group number will appear on the display.	
5		Group "5"	Press UP or DOWN Key to select group number.	
6	SET	Group Counts Group 5	Press Set Key. Selection button of the columns assigned to the selected group will illuminate.	
7	Add Remove	Group Counts Group 5	Add or Remove column from the group using the selection buttons. Remove Add	
	:		Repeat procedures 5-7 to complete set up for all groups.	
8	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.	

Free Column Setting (1 – 15)

This function allows the operator to connect multiple columns to single selection button.

Proce -dure	Key	Indication	Operation	
1	Mode start/sto	*1* - 01	Press Mode Key.	
2	SET	Selection Mode 1-"01"	Press Set Key.	
3		Free-column 1-"15"	Press UP or DOWN Key to select function number 15.	
4	SET	Free-column column 2	Press SET Key. Column number of the unassigned column will be appear on the remote display.	
5	$oldsymbol{O}$	Free-column column 2	Press desired selection button to connect to the column.	
6		Free-column column 2	Press the selection button again to cancel connection.	
7	SET	Free-column column 3	Press SET Key. Next unassigned column will appear on the display.	
Repeat procedures 5, 6, and 7 to complete set up.				
8	SET	Free-column End	"End" will be displayed after setting the last column.	
9	END	31/10/201212":"34 T 567890	Press END Key to return to normal operation.	

The sign (" ") means flickering.

[Flow of the free column setting]

1. Default connection.



3. Reconnect unassigned columns to other selection button. (Free Column function)



(NOTES)

1. Unassigned columns must be created beforehand in Space to Sales operation. (Please refer to Specified Keys operation manual.)

2. Free column setting is available up to 10 groups.

3. Columns with different pricing can not be grouped together.

4. Columns in different compartment can not be grouped together.

- 5. When Free Column operation is set, all Alternative Sales settings will be canceled. 6. In order to just view current Free Column settings, skip procedures 6 to 9.
- If Space to Sales setting is changed after Free Column setting, all Free Column settings will be canceled.

•	The	sign	("	")	means	flickering
5

CONTROLLER

5-5 MODE KEY OPERATIONS

S	chool Tim	her Hours Setting	(2-01)	
Proce -dure	Key	Indication	Operation	
1	Mode start/sto	Selection Mode "1"-01	Press Mode Key.	
2		* 2*- 0 1	Press UP or DOWN Key to select mode number 2.	
3	SET	School Timer 2-"01"	Press Set Key.	
4	SET	School Timer "A1"	Press Set Key again.	
5		School Timer *b3*	Press UP or DOWN Key to select setting.	
6	SET	b3 Begin "00"00	Press Set Key.	
7		b3 Begin "08"00	Press UP or DOWN Key to set start time. (Hours)	
8	SET	b3 Begin 08°00"	Press Set Key to confirm setting.	
9		b3 Begin 08"15"	Press UP or DOWN Key to set start time. (Minutes)	
10	SET	b3 End "00"00	Press Set Key.	
11		b3 End *08*00	Press UP or DOWN Key to set end time. (Hours)	
12	SET	School Timer b3 End 08°00"	Press Set Key.	
13		b3 End 08*45*	Press UP or DOWN Key to set end time. (Minutes)	
14	SET	"b 4"	Press Set Key.	
Repeat procedures 5 - 14 to complete set up.				
15	Diagnostics /Clear	+*b 1*	All time range settings in current pattern will be cleared when Clear Key is long-pressed during time range setting."Press Set Key to confirm setting.	
16	END	3 1/10/201212":"34 T 567890	Press END Key to return to normal operation.	

•There are 3 available settings, A - C. Each setting could have 7 sales time range. • Setting range is between 00:00 - 23:59.

 Setting pattern could be selected for each day in a week in "Select School Timer Operation Pattern" function.

Beyond procedure 4, selection button of the columns subject to School Timer function
 will illuminate. Press selection button to add or remove selection.

Sales of selections not subject to School Timer will not be blocked at all times. • The sign (" ") means flickering.

Prosedur Pengaturan:

		C1 C Pattern Time Range 1
A1)A Pattern Time Range 1	(b1)B Pattern Time Range 1	©2)C Pattern Time Range 2
(A2) A Pattern Time Range 2	(b2) B Pattern Time Range 2	©3)C Pattern Time Range 3
A3 A Pattern Time Range 3	(b3) B Pattern Time Range 3	C4) C Pattern Time Range 4
A4 Pattern Time Range 4	(b4) B Pattern Time Range 4	C5)C Pattern Time Range 5
(A5) A Pattern Time Range 5	(b5) B Pattern Time Range 5	C6 C Pattern Time Range 6
(A6) A Pattern Time Range 6	(b6) B Pattern Time Range 6	©7): C Pattern Time Range 7
(A7): A Pattern Time Range 7	(b7): B Pattern Time Range 7	End
↓	↓	」 ↓

Pattern Time Range

•"End" will appear on the display after reached the final time range.

Press UP or DOWN Key to return to the beginning or the last.

Select School Timer Operation Pattern (2-02)

Proce -dure	Key	Indication	Operation
1	Mode start/sto	*1* - 01	Press Mode Key.
2		*2*-01	Press UP or DOWN Key to select mode number 2.
3	SET	School Timer 2-"01"	Press Set Key.
4		School Timer DAY 2-*02*	Press UP or DOWN Key to select function number 2.
5	SET	Not Set "0"	Press Set Key.
6		Pattern "A"	Press UP or DOWN Key to select setting.
7	SET	Not Set "O"	Press SET Key. Next day will appear on the display.
Repeat procedures 6 and 7 to complete set up.			
8	END	31/10/2012 12":"34 T 567890	Press END Key to return to normaloperation.

The sign (" ") means flickering.

• Denotation:

Days

1 = Sunday, 2 = Monday, 3 = Tuesday, 4 = Wednesday, 5 = Thursday, 6 = Friday, 7 = Saturday, End

Pattern

0 = No vend restriction, A = A Pattern Time Range, b = b Pattern Time Range, C = C Pattern Time Range

• Time range setting must be set in "School Timer Hours Setting" function when either operation pattern is selected.

• Example of set up: = Selling Hours



 (A): $01:00 \sim 04:00$ (5): $06:00 \sim 08:00$ (5): $06:00 \sim 18:00$

 (A2): $05:00 \sim 07:00$ (A2): $09:00 \sim 14:00$ (A2): $00:00 \sim 10:00$

 (A3): $08:00 \sim 10:00$ (A3): $15:00 \sim 18:00$ (A3): $00 \sim 13:00$

 (A4): $11:00 \sim 13:00$ (A3): $00 \sim 16:00$ (A5): $00 \sim 16:00$

 (A5): $15:00 \sim 16:00$ (A5): $00 \sim 16:00$ (A5): $00 \sim 16:00$

 (A5): $17:00 \sim 19:00$ (A5): $00 \sim 19:00$ (A5): $00 \sim 10:00$

 (A5): $20:00 \sim 21:00$ (A7): $00 \sim 10:00$ (A7): $00 \sim 10:00$

CONTROLLER 5

5-5 MODE KEY OPERATIONS

Lighting Saving Hours

(2 - 03)

Proce -dure	Key	Indication	Operation
1	Mode start/sto	Selection Mode *1*-01	Press Mode Key.
2		*2*-01	Press UP or DOWN Key to select mode number 2.
3	SET	School Timer 2-*01*	Press Set Key.
4		Light Save Hours 2–"03"	Press UP or DOWN Key to select function number 3.
5	SET	Light Save Hours "00"00	Press Set Key.
6		Light Save Hours *07*00	Press UP or DOWN Key to set start time.
7	SET	Light Save Hours 07°00"	Press Set Key to confirm setting.
8		Light Save Hours 07*17*	Press UP or DOWN Key to set end time.
9	SET	Light Save Hours 0717	Press Set Key .
10	END	31/10/2012 12*:*34 T 567890	Press END Key to return to normal operation.

System uses 24 hour clock.

Setting range is 0 - 24.

Light saving will be disabled when set to 0000.
 NOTE: Set "Lighting Setting" switch to "AUTO".
 The sign ("") means flickering.

Refrigeration Unit Power Saving Hours (2 – 04)

Proce -dure	Key	Indication	Operation
1	Mode start/sto	·1"-01	Press Mode Key.
2		•2*-01	Press UP or DOWN Key to select mode number 2.
3	SET	School Timer 2-*01"	Press Set Key.
4		Unit Save Hours 2-"04"	Press UP or DOWN Key to select function number 4.
5	SET	Unit Save Hours "00"00	Press Set Key.
6		Unit Save Hours "02*00	Press UP or DOWN Key to set start time.
7	SET	Unit Save Hours 02°00"	Press Set Key.
8		Unit Save Hours 02°08"	Press UP or DOWN Key to set end time.
9	SET	Unit Save Hours 0208	Press Set Key .
10	END	31/10/2012 12":"34 T 567890	Press END Key to return to normal operation.
System uses 24 hour clock			

es 24 hour

• Selectable hours are from 0-24. * Power Saving will be disabled when set to 0000.

• The sign ("") means flickering.

S	et Clock		(2 – 05)
Proce -dure	Key	Indication	Operation
1	Mode start/sto	··1 ··- 0 1	Press Mode Key.
2		School Timer "2"-01	Press UP or DOWN Key to select mode number 2.
3	SET	School Timer 2-"01"	Press Set Key.
4		Clock NOW 2-*05*	Press UP or DOWN Key to select function number 5.
5	SET	Clock NOW "00"00	Press Set Key.
6		Clock NOW *12*00	Press UP or DOWN Key to set clock hour.
7	SET	Clock NOW 12*00*	Press Set Key.
8	UP DOWN	Clock NOW 12*34*	Press UP or DOWN Key to set clock minute.
9	SET	Clock NOW 1234	Press Set Key, and current time will be displayed.
10	END	31/10/2012 12":"34 T 567890	Press END Key to return to normal operation.

• System uses 24 hour clock.

• The sign (" ") means flickering.

Set Month and Date

(2 - 06)

Proce -dure	Key	Indication	Operation
1	Mode start/sto	"1"-01	Press Mode Key.
2		"2"-01	Press UP or DOWN Key to select mode number 2.
3	SET	School Timer 2-"01"	Press Set Key.
4		Month/Date NOW 2-"06"	Press UP or DOWN Key to select function number 6.
5	SET	Month/Date NOW "01"01	Press Set Key.
6		Month/Date NOW "10"01	Press UP or DOWN Key to set Month.
7	SET	Month/Date NOW 10"01"	Press Set Key.
8		Month/Date NOW 10"23"	Press UP or DOWN Keys to set Day.
9	SET	Month/Date NOW 1023	Press Set Key, and current date will be displayed.
10	END	31/10/2012 12":"34 T 567890	Press END Key to return to normal operation.

• The sign (" ") means flickering.

5-5 MODE KEY OPERATIONS

S	et Year		(2 – 07)
Proce -dure	Key	Indication	Operation
1	Mode start/sto	Selection Mode "1"-01	Press Mode Key.
2		School Timer *2"-01	Press UP or DOWN Key to select mode number 2.
3	SET	School Timer 2—"01"	Press Set Key.
4		Year NOW 2-*07"	Press UP or DOWN Key to select function number 7.
5	SET	Year NOW "2011"	Press Set Key.
6		Year NOW "2012"	Press UP or DOWN Key to set Year.
7	SET	Year NOW 2012	Press Set Key, and current year will be displayed.
8	END	3 1 / 1 0 / 2 0 1 2 1 2*:*3 4 T 5 6 7 8 9 0	Press END Key to return to normal operation.

• The sign (" ") means flickering.

Lighting Management Mode Setting (3 - 01)

Proce -dure	Key	Indication	Operation
1	Mode start/sto	Selection Mode "1"—01	Press Mode Key.
2		Light Management *3"-01	Press UP or DOWN Key to select mode number 3.
3	SET	Light Management 3–"01"	Press Set Key.
4	SET	Light Management Lighting PRI *1*	Press Set Key again.
5		Light Management Off PRI *0*	Press UP or DOWN Key to select setting. (See denotation below.)
6	SET	Light Management Off PRI 0	Press Set Key.
7	END	31/10/2012 12":"34 567890	Press END Key to return to normal operation.
• Availat	le settings:		

- 0: Off PRI = Lights will stay off during light saving hours regardless of darkness.
- Lighting PRI = Lights will turn on even during light saming hours when it gets dark.
 Only Timer = Disables daylight sensor, and controls the lighting only by timer.
- 3: Only Sensor = Disables timer, and controls the lighting only by daylight sensor.
- 4: Timer PRI = Lights will be turned off only during light saving hours.
- However, daylight sensor will be enabled when start time and end time of light saving hour is set to same time.
- NOTE: Set "Lighting Setting" switch to "AUTO".

• The sign (" ") means flickering.

D	Daylight Sensor Sensitivity Setting (3 – 02)		
Proce -dure	Key	Indication	Operation
1	Mode start/sto	Selection Mode "1"-01	Press Mode Key.
2		Light Management "3"—01	Press UP or DOWN Key to select mode number 3.
3	SET	Light Management 3-"01"	Press Set Key.
4		Daylight Sensor 3-"02"	Press UP or DOWN Key to select function number 2.
5	SET	Daylight Sensor Early "4"	Press Set Key.
6		Daylight Sensor Latest "1"	Press UP or DOWN Key to select setting.
7	SET	Daylight Sensor Latest 1	Press Set Key to confirm setting.
8	END	31/10/2012 12*:"34 T 567890	Press END Key to return to normal operation.

The sign (" ") means flickering.
 Available settings

- 1= Latest 2= Late
- 3= Intermediate

4= Early

5= Earliest

Set Counter per Groups

(This function may not be available depending on the model.)

Proce -dure	Key	Indication	Operation
1	Mode start/sto	Selection Mode *1*-01	Press Mode Key.
2		Light Management °3'-01	Press UP or DOWN Key to select mode number 3.
3	SET	Light Management 3–"01"	Press Set Key.
4		Count per Group 3-*03*	Press UP or DOWN Key to select function number 3.
5	SET	Count per Group Group "1"	Press Set Key.
6		Count per Group Group "2"	Press UP or DOWN Key to select group.
7	000	Count per Group Group "2"	Selection button of the columns belonging to this group will illuminate. Add or remove from the group by pressing the selection button.
8		Count per Group Group "3"	Press UP or DOWN Key to move on to next group.
9	END	31/10/201212*:"34 T 567890	Press END Key to return to normal operation.

(3 - 03)

· Counter per pricings will be disabled when counter per groups is set. • Up to 10 counters could be set up.

The sign (" ") means flickering.

5

CONTROLLER

5-5 MODE KEY OPERATIONS

(3 - 30)Selection Button Illumination Pattern

Proce -dure	Key	Indication	Operation
1	Mode start/sto	Selection Mode "1"-01	Press Mode Key.
2		Light Management "3"—01	Press UP or DOWN Key to select mode number 3.
3	SET	Light Management 3–"01"	Press Set Key.
4		Illumination MD 3-*30*	Press UP or DOWN Key to select function number 30.
5	SET	lllumination MD OFF "0"	Press Set Key.
6		Illumination MD Pattern "1"	Press UP or DOWN Key to select desired setting.
7	SET	Illumination MD Pattern 1	Press Set Key to confirm setting.
8	END	10/10/201212*:"34 T 567890	Press END Key to return to normal operation.

• Illumination will be enabled under following conditions:

- Selection button illumination pattern is set to "0".

- Selection button illumination hours are set to "0000" or hours out of preset illumination hours.

- Out of service.

- Door opened.
- The sign (" ") means flickering.

Selection Button Illumination Hours (3 - 31)

Proce -dure	Key	Indication	Operation
1	Mode start/sto	Selection Mode "1"—01	Press Mode Key.
2		Light Management *3"–01	Press UP or DOWN Key to select mode number 3.
3	SET	Light Management 3-"01"	Press Set Key.
4		Illumination TM 3-*31*	Press UP or DOWN Key to select function number 31.
5	SET	lllumination TM "00"00	Press Set Key.
6		Illumination TM *08*00	Press UP or DOWN Key to select illumination beginning hour. (Upper 2 digits are the beginning hour.)
7	SET	Illumination TM 08°00'	Press Set Key to confirm setting.
8	DOWN	Illumination TM 08*17*	Press UP or DOWN Key to select illumination ending hour. (Lower 2 digits are the ending hour.)"
9	SET	Illumination TM 0817	Press Set Key to confirm setting.
10	END	10/10/201212":"34 T 567890	Press END Key to return to normal operation.

Selectable hours are from 0 – 24.

• When beginning and ending hours are set at similar time (e.g. 0024) illumination

 Will be consistently turned on.
 Illumination will not turn on at following conditions:
 -Selection button illumination setting is set in "0".
 -Selection button illumination hours are set in "0000" or hours out of preset illumination hours.

-Out of service.

-Door opened. • The sign (" ") means flickering.

5 CONTROLLER

5-6 RAM CLEAR • ADJUST MACHINE CODE



- 1. [Test] Press the button 'Test' 5 times, it will be displayed 99 on the digital display.
- 2. SET Press the button 'SET'.
- 3. **[**▲ UP]**[**▼ DOWN**]** Press the button 'UP' 'DOWN', it will be displayed Machine Code on the digital display.
 - Machine code is Serial Production Number (9 digits) of the 4 digit.
 - KB-GS20-S-NE machine code 9633.
 - KB-GS30-S-NE machine code 9838.
 - KB-GS24-S-NE machine code 6394.
- 4. [Diagnostics / Clear] Press the button 'Diagnostic/Clear' continuously (more than 2 minutes).
 Reset Vending Machine will operate.
- 5. Manufacture setting will be re-setting.
- <ATTENTION>

Control Setting Price, Set Time, and other will reset.

Count Total Vend will be reset.

Set Selection Button of Goods Products cleared.

Reset current Hour, Day, Month, Year

5

CONTROLLER

5-7 LIST OF ERRORS CODE

When Error or Disturbance occurs, error code will be indicated on digital display.

	Related	Error codes	Meaning
		10	Coin-mech communication error
		11	Acceptor jammed error
		15	Return switch error
		16	Coin payout failure
		17	Safety switch error
	Coin Mechanism	18	Pulse switch error
	(Option)	19	Acceptor error
		20	Tube sensor error
		25	Coin sensor error
		26	Sensor A error
		27	Sensor B error
		28	Sensor C error
		34	Selection switch error
	Vending system	38	Vending management error
	0 /	41	Dispensing motor failure
		50	Clock data error
		51	Memory data error
	Memory	53	Invalid model assignment
		54	Selection button settings error
		61	Selection indicator communication error
		62	Product delivery unit communication error
		64	Printer communication error
	Communications	67	Keyboard unit communication error
		71	Bill validator communication error
		73	Card unit communication error
		80	Jammed notes
		81	Bill dispensing error
		82	Cashbox full
		83	Stacker error
	Bill Validator	84	Identifier error
		85	Safety switch error
		86	Cashbox unlocked
		87	Bill extracted
		90	Cooling unit failure
		91	Heating unit failure
		96	Door switch error
		500	Clogged condenser warning
		501	HOT / COLD setting error
		502	Compartment 1 fan failure
		503	Compartment 2 fan failure
		504	Compartment 3 fan failure
		505	Compartment 4 fan failure
		506	Condenser Fan Failure
		550	Condenser thermistor error
	Cooling and heating	552	External thermistor error
	system	555	Compartment 1 evaporator thermistor error
		560	Compartment 2 evaporator thermistor error
		565	Compartment 3 evaporator thermistor error
•		559	Compartment 1 thermistor error
		564	Compartment 2 thermistor error
		569	Compartment 3 thermistor error
		574	Compartment 4 thermistor error
		557	Compartment 1 delivery thermistor error
		562	Compartment 2 delivery thermistor error
		567	Compartment 3 delivery thermistor error
		572	Compartment 4 delivery thermistor error

(ATTENTION IF PROBLEM OCCUR**)**

- · Please read this manual to fix any trouble or damage
- Turn power off while inspection or replacing place
- There are codes unused in certain models

6

ERROR CODE AND CORRECTIVE ACTIONS

Related	Error codes	Occurring Error	Check point	Action	Recovery verification	Sold-out columns
	10	Coin-mech communication error	Check harness and connectors for disconnection.	Reconnect harness. If there seems to be no problem, replace the coin mech.		XÒ
Coin Mechanism (Option)	11	Acceptor jammed error	Check coin selector for jammed coin.	Remove jammed coin. If there seems to be no problem, replace the selector or coin mech.		
	15	Return switch error	Coin return lever stuck.	If there seems to be no problem, replace the coin mech.	~ O ·	
	16	Coin payout failure	Check payout area for jammed coin.	Remove jammed coin. If there seems to be no jam, replace the coin mech.	Insert coin of all types, check for correct reading. Insert coin of all types,	
Coin Mechanism (Option)	17	Safety switch error	Check that coin tube cassette is installed correctly.	Reinstall coin tube cassette in correct position. If there seems to be no problem, replace the coin mech.	operate coin return lever, check correct payout.	All Columns
	18 Pulse switch error f		Check payout area for jammed coin.	Remove jammed coin. If there seems to be no jam, replace the coin mech.		
	19	Acceptor error	Check that coin selector is in correct position.	Secure coin selector in correct position. If there seems to be no problem, replace the coin mech.		
	20	Tube sensor error	Check coin tube sensor.	If there seems to be no problem, replace the coin mech.	Check the function of "out of change" lamp by filling and removing the coins in the tube.	
	25	Coin sensor error			Insert coin of all types, check for	
	26	Sensor A error	Check coin selector	If there seems to be no problem,	correct reading. Insert coin of all types, operate coin return lever,	
	27	Sensor B error	Inspect coin selector.	replace the selector or coin mech.		
	28 34	Sensor C error Selection switch	Check for stuck selection	If there seems to be no problem,	Similar error shall not occur within	
Vending system	38	Vending management error	Check delivery and	If there seems to be no problem		Corresponding Column
	41	Dispensing motor failure	vend mechanism.	replace the component.	Conduct test vend.	
	50	Clock data error	Check current time setting on the keyboard.	Reset current time setting.	Check current time setting on the keyboard.	-
	51	Memory data error	Check data on the keyboard.	Reset all data.	Check all data on the keyboard.	All Columns
Memory	53	Invalid model assignment	Check model code setting.	Set correct model code.	Chack snarp to sales setting	
	54	Selection button settings error	Check for column not assigned to any selection button.	Redo space to sales setting.	by test vending.	-

6 ERROR CODES AND CORRECTIVE ACTIONS

Related	Error codes	Occurring Error	Check point	Action	Recovery verification	Sold-out columns	
Related Communications Bill Validator	61	Selection indicator communication error	Check slave control board. Check harness	If there seems to be no problem,	Test vend by coins.	All Columns	
	62	Product delivery unit communication error	and connectors for disconnection.	replace the slave control board.			
	64	Printer communication error	Check printer connector for disconnection.	If there seems to be no problem, replace the printer.	Operate printer.		
	67	Keyboard unit communication error	Check keyboard connector for disconnection.	If there seems to be no problem, replace the keyboard.	Check keyboard function and display.		
	71	Bill validator communication error	Check harness and	Reconnect harness. If there seems to be no problem,	Test if the bill or card could be properly accepted.		
	73	Card unit communication error	for disconnection.	replace the bill validator or card unit.	returned and vend.		
	80	Jammed bill					
	81	Bill dispensing error	Check for jammed bill.	Remove jammed bill.			
	82	Cashbox full	Empty the cashbox.	Collect bill.			
	83 Stacker error		Check that stacker lid is closed correctly.	Close the lid.	Check if the bill could be properly		
Bill Validator	84	Identifier error	Check for jammed bill.	Remove jammed bill.	accepted and returned.	-	
	85	Safety switch error	Check condition of the identifier.	Close back lid of the identifier.	Error code cleared.		
	86	6 Cashbox unlocked Check that cashl is closed correct		Close the lid.			
	87	Bill extracted	Detected bill extraction, check for jammed bill.	Leave it for 30 minutes, or open and shut the lid.			
	90	Cooling unit failure	Check slave control board connector for disconnection. Check refrigeration unit.	If there seems to be no problem, replace the slave control board or refrigeration unit.	Similar error shall not occur within two days after correction.	Corresponding	
Cooling and heating system	91	Heating unit failure	Check slave control board connector for disconnection. Check heating unit.	If there seems to be no problem, replace the slave control board or heating unit.	Similar error shall not occur within a day after correction.	Column	
	96	Door switch error	Check main door switch.	If there seems to be no problem, replace the main door switch.	Error code shall respond to opening and closing of the door.		
	500	Clogged condenser warning	Check condition of the condenser.	Clean the condenser.	Clear error code by pressing Diagnostics/Clear key on the keyboard, or press Condenser Malfunction key.	-	

ERROR CODE AND CORRECTIVE ACTIONS

6

Related	Error codes	Occurring Error	Check point	Action	Recovery verification	Sold-out columns
	501	HOT / COLD setting error	Check HOT/COLD selection switch. Check harness and connectors for disconnection.	Redo setting correctly. Reconnect harness.		ž
	502	Compartment 1 fan failure	Check compartment 1 fan motor.	Reconnect harness.		
	503	Compartment 2 fan failure	Check compartment 2 fan motor.	If there seems to be no problem, replace fan motor.	•	
	504	Compartment 3 fan failure	Check compartment 3 fan motor.	(CAUTION: Always reset		
	505	Compartment 4 fan failure	Check compartment 4 fan motor.	the machine by switching the power ON/OFF after		
	506	Condenser Fan Failure	Check condenser fan motor.	corrective action.)		
	550	Condenser thermistor error	Check condenser thermistor connector for disconnection.			
	552	External thermistor error	Check condenser external thermistor connector for disconnection.	X		
	555	Compartment 1 evaporator thermistor error	Check compartment 1 evaporator thermistor connector for disconnection.	Bacannact harness		
Cooling and	560	Compartment 2 evaporator thermistor error	Check compartment 2 evaporator thermistor connector for disconnection.	If there seems to be no problem, replace	Error code cleared.	-
heating system	565	Compartment 3 evaporator thermistor error	Check compartment 3 evaporator thermistor connector for disconnection.	the thermistor. (CAUTION: Always reset		
	559	Compartment 1 thermistor error	Check compartment 1 thermistor connector for disconnection.	the machine by switching the power ON/OFF after		
	564	Compartment 2 thermistor error	Check compartment 2 thermistor connector for disconnection.	corrective action.)		
	569	Compartment 3 thermistor error	Check compartment 3 thermistor connector for disconnection.			
	574	Compartment 4 thermistor error	Check compartment 4 thermistor connector for disconnection.			
	557	Compartment 1 delivery thermistor error	Check compartment 1 delivery thermistor connector for disconnection.	Reconnect harness.		
	562	Compartment 2 delivery thermistor error	Check compartment 2 delivery thermistor connector for disconnection.	IT there seems to be no problem, replace the thermistor.		
	567	Compartment 3 delivery thermistor error	Check compartment 3 delivery thermistor connector for disconnection.	(CAUTION: Always reset the machine by switching		
	572	Compartment 4 delivery thermistor error	Check compartment 4 delivery thermistor connector for disconnection.	the power ON/OFF after corrective action.)		

7-2 TO REMOVE RACK UNIT

Attention when removing unit on machine.

To avoid machine tip over when opening door, set pads on bottom of the door. (See Fig.)



ATTENTION! Set pads to avoid machine tip over.

Some steps to remove rack unit, as follow:

1. Open inner door



Fig 1. Open inner door To open inner door, lift and slide lever (inner door lock)



Fig 2. Remove inner door To remove inner door, lift inner door up to hinge dislodge (inner door)

2. Remove bracket rack unit

Step to remove bracket rack unit left and right compartment, as follow:

- A. Remove bracket right compartment (KR535)
 - 1. Remove each screw on right bracket (see Fig. 3a)
 - 2. Remove each screw on left bracket (see Fig. 3b)
 - 3. Draw out and remove bracket hook (see Fig. 3c)



Fig 3a. Remove bracket screw KR535



Fig 3b. Remove bracket screw KR535



Fig 3c. Remove bracket KR535

7-2 TO REMOVE RACK UNIT

- B. Remove bracket left compartment (KL407)
 - 1. Remove each screw on right compartment (see Fig. 4a)
 - 2. Remove each screw on left compartment (see Fig. 4b)
 - 3. Draw out and remove bracket hook (see Fig. 4c)



Fig 4a.Remove bracket screw KL407



Fig 4b. Remove bracket screw KL407



Fig 4c. Remove bracket KL407

3. Remove rack harness cable

Remove red connector (right side) and white connector (left side), see Fig. 5a and 5b. Make sure every connectors rack harness on each unit rack unconnected.



Fig 5a. Remove rack harness cable



Fig 5b. Remove rack harness cable

 Remove loading guide Next step is to remove every loading guide which installed on rack unit. How to remove see Fig. 6a and 6b



Fig 6a. Remove left loading guide



Fig 6b. Remove right loading guide

7-2 TO REMOVE RACK UNIT

5. Remove rack unit

To avoid work accident, always use prescribed safety equipment standards, may cause scratch. When removing rack unit, please note the part that must be held (see Fig. 7a).



Fig 7a. Remove rack unit (lift and draw out rack unit from rack rail).

CONDITION OF COMPARTMENT AFTER RACK UNIT REMOVED



Fig 7b. Condition of compartment after rack unit removed.

7-3 TO REMOVE VEND MECH

Some steps to remove vend mech, as below

1. Remove harness cover

To remove vend mech, settle rack unit horizontally on flat spaces. Remove harness cover by draw lock (see Fig. 8a). Then, slide to left side and draw out until harness cover removed (see Fig. 8b).





Fig 8a. Remove lock of harness cover

Fig 8b. Remove harness cover

2. Remove vend mech

To remove vend mech, push lock vend mech till vend mech removed from outer shaft (see Fig. 9a). Then,draw out vend mech (see Fig. 9b).



Fig 9a. Remove vend mech



Fig 9b. Remove vend mech

3. Replace vend mech

To replace vend mech, insert vend mech and make sure it in right position (see Fig. 10a). Make sure forepart of vend mech locked with inner shaft (see Fig. 10b). Push vend mech in order to lock with outer shaft (see Fig. 10c).



Fig 10a. set vend mech



Fig 10b. set vend mech



Fig 10c. set vend mech

7-5 TO REMOVE REFRIGERATION UNIT

Some steps to remove refrigeration unit, as below

- 1. Remove chute
 - A. Right side chute

Before remove refrigeration unit, first step is remove chute.

To remove chute, remove lock chute screw (see Fig. 11a). Then, lift and draw out chute (see Fig. 11b).



Fig 11a. Remove right side chute



Fig 11b. Remove right side chute

B. Left side chute

Same with right side chute, to remove left side chute, remove lock chute screw first (see Fig. 12a). Then, lift and draw out chute (see Fig. 12b).



Fig 12a. Remove left side chute



Fig 12b. Remove left side chute

2. Compartment condition

After chute removed, compartment condition as shown as below



Fig 13a. Compartment condition after chute removed.



Fig 13b. Overall compartment condition after chute removed.

7-5 TO REMOVE REFRIGERATION UNIT

 Remove connector fan and connecter heater In fan parts, there are two connectors have to be removed, such as fan connector (see Fig. 14a) and sensor temperature connector (see Fig. 14b). Then, remove clip harness cable (see Fig. 14c) and heater connector (see Fig. 14d).



Fig 14a. Remove fan connector.



Fig 14c. Remove clip harness cable.

4. Remove drain tower trim

Remove three lock screws of drain tower trim (see Fig. 15a) Then, draw out drain lower trim for removing (see Fig. 15b).



Fig 15a. Remove drain lower trim



Fig 14b. Remove sensor temperature connector.



Fig 14d. Remove heater connector.



Fig 15b. Remove drain lower trim

7-5 TO REMOVE REFRIGERATION UNIT

5. Remove harness connector condenser Remove harness connector condenser which connected with power relay (see Fig. 16a and 16b).



Fig 16a. Remove harness condenser



Fig 16b. Remove harness condenser

6. Remove heater bracket and evaporator

Remove lock screws of heater bracket (see Fig. 17a).

After removed, slide to left side evaporator then draw out till evaporator removed from fan cover (see Fig. 17b). By same step, do it to left side.



Fig 17a. Remove heater bracket



Fig 17b. Remove evaporator

 Remove sponge and plate condenser guard After evaporator removed, then remove sponge (pipe pads) and plate condenser guard.







Fig 18a. Remove sponge and plate condenser guard

7-5 TO REMOVE REFRIGERATION UNIT

8. Remove refrigeration unit Remove two screws on refrigeration unit (see Fig. 19a).



Fig 19a. Remove screws of refrigeration unit

Then, after screw removed, draw out refrigeration unit.

Be careful when transporting due to weight, need two persons to do this work (see Fig. 20a).



Fig 20a. Remove and take refrigeration unit

9. Settle refrigeration unit

For avoid damage, set refrigeration unit as shown as below



Fig 21a. Place to set refrigeration unit

7-7 TO REMOVE POWER RELAY UNIT

Remove all connected connector; remove lock screw on box comp power relay. Then, draw out power relay for removing.







Fig 22a. Remove power relay unit

8-1 SALES CONDITION STAND BY CONFIRMATION

Instruction for trouble-shooting related on vending system.



8-2 DIAGNOSE COOLING FUNCTION

Instruction for trouble-shooting related on cooling unit.



8-3 DIAGNOSE HEATING FUNCTION

Instruction for trouble-shooting related on heating unit.



8-4 DIAGNOSE POINT

Instruction for trouble-shooting related on vending system, cooling unit and heating unit.

Flow No.	Description	Connector No.	Test Lead (+)	-	Test Lead (-)	Determination (Normal value)	Explanation (Destination)
1	Box Power Relay	CN. DG	1	-	2	AC220~240V	Noise filter board input (CN. IN)
2	Power (noise filter board)	CN. OUT	1	-	3	AC220~240V	Noise filter board output
3	Power(noise filter board)	CN.B	1	-	2	DC21.6~26.4V	CMP relay coil input
(4)	Power(noise filter board)	CN.B	1	-	3	DC21.6~26.4V	Heater relay coil input
(5)	DC Power board	CN. 1	1	-	3	AC220~240V	DC power input
6	DC Power board	CN. 2	2	-	6	DC21.6~26.4V	DC power output (tujuan relay board CN. 4)
(7)	DC Power board	CN. 2	4	-	6	DC7.6~8.4V	DC power output (tujuan relay board CN. 4)
(8)	Relay board	CN.4	1	-	8	DC21.6~26.4V	Relay board input
(9)	Relay board	CN.4	2	-	8	DC7.6~8.4V	Relay board input
(10)	Box Power Relay	CN. D2	1	-	6	DC21.6~26.4V	DC power output (tujuan keyboard • main board)
(11)	Box Power Relay	CN. D2	2	-	6	DC7.6~8.4V	DC power output (tujuan keyboard • main board)
(12)	Box Power Relay	CN. C	3	-	1	AC220~240V	Compressor (Refrigeration Unit)
(13)	Box Power Relay	CN. S	1	-	5	AC220~240V	Left compartment solenoid valve (Refrigeration unit)
(14)	Box Power Relay	CN. S	2	-	6	AC220~240V	Right compartment solenoid valve (Refrigeration unit)
(15)	Box Power Relay	CN. CF	1	-	2	DC21.6~26.4V	Condenser (Refrigeration unit)
(16)	Box Power Relay	CN. TH9	1	-	2	DC0~5.25V	Outside Thermistor (Refrigeration unit)
(17)	Left Compartment Fan Motor	CN. F1	1	-	2	DC21.6~26.4V	Left compartment fan motor output (Refrigeration unit)
(18)	Left Compartment Fan Motor	CN. F1	3		2	DC0~0.5V	Rotation signal (Operating)
(19)	Left Compartment Thermistor	CN. TH1	1		2	DC0~5.25V	Left compartment fan motor output (Refrigeration unit)
20	Left Compartment Heater	CN. H1	1	-	2	AC220~240V	Left compartment heating heater
(21)	Right Compartment Fan Motor	CN. F2	1	-	2	DC21.6~26.4V	Right compartment fan motor output (Refrigeration unit)
(22)	Right Compartment Fan Motor	CN. F2	3		2	DC0~0.5V	Rotation signal (Operating)
(23)	Right Compartment Thermistor	CN. TH2	1	-	2	DC0~5.25V	Right compartment thermistor output (Refrigeration unit)
(24)	Remote keyboard	CN. K	1	-	8	DC21.6~26.4V	Remote keyboard input
(25)	Remote keyboard	CN. K	2	-	8	DC7.6~8.4V	Remote keyboard input
(26)	LED Drive board	CN. 2	1	-	4	DC21.6~26.4V	LED drive board input (for signal)
(27)	LED Drive board	CN. 2	2	-	4	DC0~0.5V	LED output (waktu menyala OV)
(28)	LED Drive board	CN. 1	1	-	4	DC21.6~26.4V	LED drive board output
(29)	LED Drive board	CN. 1	3	-	4	DC21.6~26.4V	LED drive board input (LED power supply for driving)
30	Main board	CN. 1	13	-	15	DC21.6~26.4V	Main board input
31	Main board	CN. 1	14	-	15	DC7.6~8.4V	Main board input
32	Main board	CN. 1	8	-	15	DC0~0.5V	LED Drive board CN. 2 (waktu menyala OV)
33	Main board	CN. 3	20	-	22	DC21.6~26.4V	Main board output (tujuan MDB board CN.2 • CN.3)
34)	Main board	CN. 3	21	-	22	DC7.6~8.4V	Main board output (tujuan MDB board CN.2)
35	MDB-C board	CN. 2	20	-	22	DC21.6~26.4V	MDB board input (pemakaian nanti)
(36)	MDB-C board	CN. 2	21	-	22	DC7.6~8.4V	MDB board input
37	MDB-C board	CN. 3	1	-	2	DC21.6~26.4V	MDB board input (Coin-mech · Bill validator (power yang digunakan))
38	MDB-C board	CN. 6	1	-	2	DC21.6~26.4V	MDB board output (Coin-mech · Bill validator)
(39)	Coin-mech	CN. CO	1	-	2	DC21.6~26.4V	Coin-mech (Bill validator) input

9

CLEANING AND MAINTENANCE

To keep machine life longer and clean, do maintenance properly.

Clean the case and door

- Please wipe with a soft cloth.
- If particularly dirty, use mild detergent or warm water, then wipe with a dry cloth.
- Do not use scouring powders, paint thinner, or any cleaning agent other than neutral detergent. Use of unspecified detergent may cause damage on the painted suface or brake plastic parts.
- Do not apply water directry by hose or bucket. May cause failure.



Check cooling temperature of goods, make sure cooling temperature of goods in accordance with arrangements.

Check Evaporator fan is running normally.

Check if there are strange voices unordinary. (example : condenser fan caught something, refrigeration unit appear strange noise)

Clean bill validator.

After collected banknotes, check operation system bill validator in good function condition.

Perform test on machine and note every problems occured.

1. CASE PART



1. CASE PART

No.	PARTS NUMBER	KB-GS20-S	KB-GS30-S	KB-GS24-S	PARTS NAME	
1	3B82-70447-00	1	-	-	PAINTED CASE	
	3B82-71487-00	-	1	-	PAINTED CASE	
	3B82-74265-00	-	-	1	PAINTED CASE	
2	3092-27818-00	2	2	2	TRIM(AA SIDE INNER BOX 1413.5)	
3	3092-37429-00	1	-	-	TRIM(AB UP INNER BOX 955)	
	3092-38298-00	-	1	-	TRIM(AB UP INNER BOX 1116)	
	3092-51793-00	-	-	1	TRIM(AB UP INNER BOX 1116)	
4	3093-19089-00	2	2	2	PAN(DRAIN)	
5	3093-32849-00	2	2	2	COVER(DRAIN PAN)	
6	3092-37350-00	1	-	-	INSULATION(TOP PANEL)	
	3092-38119-00	-	1	1	INSULATION(TOP PANEL)	
7	3092-37349-01	1	-	-	INSULATION, COMP(BACK PANEL)	
	3092-38121-00	-	1	1	INSULATION, COMP(BACK PANEL)	
8	3093-30958-00	2	-	-	INSULATION(UP BACK PANEL)	
	3093-32193-00	-	2	2	INSULATION(UP BACK PANEL)	
9	3092-37352-01	2	-	-	INSULATION(SIDE PANEL)	
	3092-38122-00	-	2	2	INSULATION(SIDE PANEL)	
10	3092-37400-00	1	-	-	INSULATION, COMP(BOTTOM PANEL)	
	3092-38302-00	-	1	1	INSULATION, COMP(BOTTOM PANEL)	
11	3043-29223-00	2	2	2	SCREW HOLE SEAL	
12	3092-32641-00	2	2	2	SPONGE(12*12*25)	
13	3092-39090-00	1	NOT USED	NOT USED	SPONGE(15*15*100)	
14	3092-39091-00	1	NOT USED	NOT USED	SPONGE(15*15*200)	
15	3092-37364-00	1	-	-	TRIM(P LOWER INNER BOX 961)	
40	3092-38314-00	-	1	1	TRIM(PLOWER INNER BOX 1122)	
16	3093-32219-00	1	-			
17	3093-32388-00	-	1 15	1 15		
10	3092-22717-00	0.95	1.15	1.15		
10	3003 40028 00	1				
20	3093-40920-00	4	4	4	SDACED(16*16)	
20	3092-18320-00	1		-	PACKING/M LIPPER CASE1002)	
21	3092-23330-00	-		1	PACKING(M UPPER CASE1163)	
22	3093-32591-00	1	1	1	DRAIN(I OWER DRAIN PAN)	
23	3093-37203-00	1	. 1	1	COVER(BACK)	
24	3533-10422-00	2	2	2	C-30-RK-24 RUBBER LEG	
25	3081-68543-00	1	1	NOT USED	PAINTED COVER(CASE PROTECTION -00419)	
26	3092-32847-00	3	2	2	SPONGE(20*50*220)	
27	3093-32850-00	2	2	2	SHEET(SCRATCH PROTECTION)	
28	3093-39961-00	1	1	1	SHEET(WATER PROOF 260*250)	
29	3092-32848-00	2	2	2	SPONGE(5*30V*40)	
30	3093-32921-01	1	1	1	SUPPORT(INNER DOOR LEVER)	
31	3093-32217-00	1	1	1	COVER(CORD CABINET)	
32	3593-12047-00	1	1	1	PLASTIC POINT(TAPPING) M4*10	
33	3093-37132-01	1	1	1	BRACKET(POWER CORD BUSH)	
34	3093-17768-00	1	1	1	DRAIN PAN	
35	3093-22165-00	1	1	1	EVAPORATION PLATE	
36	3062-70377-01	1	-	-	BOX, SUB ASSY(POWER RELAY)	
	3062-71140-01	-	1	-	BOX, SUB ASSY(POWER RELAY)	
	3062-73405-01	-	-	1	BOX, SUB ASSY(POWER RELAY)	
37	3062-70161-00	1	1	1	BOX,COMP(POWER RELAY)	
38	3623-03036-00	1	1	1	NVL22MC ELB	
39	3613-02384-00	2	2	2	FSL250V8 FUSE	
40	3023-70386-00	2	2	2	FUSE LABEL(8A)	
41	3513-11352-01	1	-	-	RELAY PCB20SC6GS	
	3513-11367-01	-	1	1	RELAY PCB30SC6GS	
42	3513-11351-00	1	1	1	ADR42G92WA POWER	
43	3092-33235-00	1	1	1	SPONGE(20*50*130)	
44	3513-11353-00	1	1	-	NOISE FILTER 2H2VGS	
	3513-11553-00	-	-	1	NOISE FILTER 2H2VRFGS	

2. CASE · RACK PARTS KB-GS20-S



2. CASE • RACK PARTS KB-GS20-S

No.	PARTS NUMBER	PARTS NAME	Qty per Unit	
1	3093-32037-01	STAY(FRONT PLATE19)	1	1
2	3093-29686-00	GASKET(Y P-BOARD1413)	1	
3	3092-38010-00	INSULATION, COMP(P-BOARD19)	1	
4	3092-14368-00	SPONGE(12*12*2000)	1 . 🥻	•
5	3092-29865-00	SPONGE(12*10*1000)	1	
6	3033-70458-00	RAIL(RACK5KL-G)	4	
7	3033-70459-00	RAIL(RACK5KR-G)	4	ſ
8	3033-70460-00	BRACKET(KL407)	1	
9	3033-70461-00	BRACKET(KR535)	1	
10	3032-69097-02	RACK, ASSY(190FLAPPER)	2	
11	3033-70463-00	CHUTE(5KL407)	▲ 1	1
12	3033-70464-01	CHUTE(5KR535)	1	
13	3093-37594-00	DUCT(BACK PLATE405UG)	1	1
14	3093-37595-00	DUCT(BACK PLATE533GS)	1	
15	3093-32369-00	COVER(DUCT VMP)	1	1
16	3093-37730-03	PLATE(CONDENSER GUARD)	1	
17	3593-12047-00	PLASTIC POINT(TAPPING)M4*10	1	
18	3023-69549-00	LABEL(CONDENSER GUARD HK)	1	
19	3093-37347-00	INNER BOX(BOTTOM PLATE L)	1	
20	3093-37348-00	INNER BOX(BOTTOM PLATE R)	1	
21	3031-69887-00	RACK, UNIT(KP5R1A)	2	
22	3031-70424-00	RACK, UNIT(KY5R1A)	1	
23	3031-69888-00	RACK, UNIT(KP5F1A)	2	
24	3031-70452-00	RACK, UNIT(KY5F1A)	1	
25	3031-69893-00	RACK, UNIT(KS5R1A)	1	
26	3031-69894-00	RACK, UNIT(KS5F1A)	1	
27	3033-69569-02	RACK(LOADING GUIDE KEL)	2	
28	3033-69570-02	RACK(LOADING GUIDE KDL)	2	
29	3033-69571-03	RACK(LOADING GUIDE KCL)	2	
30	3033-69574-03	RACK(LOADING GUIDE KER)	2	
31	3033-69575-03	RACK(LOADING GUIDE KCR)	2	
32	3033-69569-02	RACK(LOADING GUIDE KEL)	1	
33	3033-69570-02	RACK(LOADING GUIDE KDL)	1	1
34	3033-69571-03	RACK(LOADING GUIDE KCL)	1	
35	3033-69572-01	RACK(LOADING GUIDE KELN)	1	
36	3033-69573-01	RACK(LOADING GUIDE KCLN)	1	
37	3031-68466-00	VEND MECH, UNIT(KLP-C)	15	
38	3031-68392-00	VEND MECH, UNIT(KLS3)	5	
39	3033-66510-01	RACK(HARNESS COVER KLP)	6	1
40	3033-66511-01	RACK(HARNESS COVER KLS)	2	
41	3033-64153-00	RACK(HARNESS COVER KQR)	3	
42	3033-64154-00	RACK(HARNESS COVER KSR)	1	

2. CASE • RACK PARTS KB-GS30-S



2. CASE • RACK PARTS KB-GS30-S

No.	PARTS NUMBER	PARTS NAME	Qty per Unit	
1	3093-32258-01	STAY(FRONT PLATE25)	1	
2	3093-29686-00	GASKET(Y P-BOARD1413)	1	
3	3092-38304-00	INSULATION, COMP(P-BOARD25)	1	` *
4	3092-14368-00	SPONGE(12*12*2000)	1	
5	3092-29865-00	SPONGE(12*10*1000)	1	
6	3032-71117-00	RAIL, COMP(RACK6KL-G)	5	
7	3032-71115-00	RAIL, COMP(RACK6KR-G)	5	
8	3033-69675-00	BRACKET(KL311)	1	
9	3033-70543-00	BRACKET(KR783)	1	
10	3032-69097-02	RACK, ASSY(190FLAPPER)	3	
11	3033-70545-00	CHUTE(6KL311)	1	
12	3032-72119-00	CHUTE, ASSY(6KR783)	1	
13	3093-38814-00	DUCT(BACK PLATE311GS)	1	
14	3092-38815-00	DUCT, ASSY(BACK PLATE781GS)	1	
15	3093-37730-03	PLATE(CONDENSER GUARD)	1	
16	3593-12047-00	PLASTIC POINT(TAPPING)M4*10	1	
17	3023-69549-00	LABEL(CONDENSER GUARD HK)	1	
18	3093-38296-00	INNER BOX(BOTTOM PLATE L)	1	
19	3093-38297-00	INNER BOX(BOTTOM PLATE R)	1	
20	3031-69878-00	RACK, UNIT(KP6R1A)	2	
21	3031-70590-00	RACK, UNIT(KY6R1A)	1	
22	3031-69879-00	RACK, UNIT(KP6M1A)	2	
23	3031-70591-00	RACK, UNIT(KY6M1A)	1	
24	3031-69880-00	RACK, UNIT(KP6F1A)	2	
25	3031-70592-00	RACK, UNIT(KY6F1A)	1	
26	3031-69744-00	RACK, UNIT(KS6R1A)	2	
27	3031-69745-00	RACK, UNIT(KS6M1A)	2	
28	3031-69746-00	RACK, UNIT(KS6F1A)	2	
29	3033-69568-02	RACK(LOADING GUIDE KFL)	2	
30	3033-69569-02	RACK(LOADING GUIDE KEL)	2	
31	3033-69570-02	RACK(LOADING GUIDE KDL)	2	
32	3033-69571-03	RACK(LOADING GUIDE KCL)	2	
33	3033-69574-03	RACK(LOADING GUIDE KER)	4	
34	3033-69575-03	RACK(LOADING GUIDE KCR)	2	
35	3033-69568-02		1	
36	3033-69569-02	RACK(LOADING GUIDE KEL)	1	
37	3033-69570-02	RACK(LOADING GUIDE KDL)	1	
38	3033-69571-03	RACK(LOADING GUIDE KCL)	1	
39	3033-69572-01	RACK(LOADING GUIDE KELN)	4	
40	3033-69573-01	RACK(LOADING GUIDE KCLN)	2	
41	3031-68466-00	VEND MECH UNIT(KLP-C)	18	
42	3031-68392-00	VEND MECH, UNIT(KLS3)	12	
43	3033-66510-01	RACK(HARNESS COVER KLP)	9	
44	3033-66511-01	RACK(HARNESS COVER KLS)	6	
38 39 40 41 42 43 44	3033-69571-03 3033-69572-01 3033-69573-01 3031-68466-00 3031-68392-00 3033-66510-01 3033-66511-01	RACK(LOADING GUIDE KCL) RACK(LOADING GUIDE KELN) RACK(LOADING GUIDE KCLN) VEND MECH, UNIT(KLP-C) VEND MECH, UNIT(KLS3) RACK(HARNESS COVER KLP) RACK(HARNESS COVER KLS)	1 4 2 18 12 9 6	

2. CASE • RACK PARTS KB-GS24-S



2. CASE • RACK PARTS KB-GS24-S

No.	PARTS NUMBER	PARTS NAME	Qty per Unit
1	3093-32258-01	STAY(FRONT PLATE25)	1
2	3093-29686-00	GASKET(Y P-BOARD1413)	1
3	3092-38304-00	INSULATION, COMP(P-BOARD25)	1
4	3092-14368-00	SPONGE(12*12*2000)	1
5	3092-29865-00	SPONGE(12*10*1000)	1
6	3032-71117-00	RAIL, COMP(RACK6KL-G)	4
7	3032-71115-00	RAIL, COMP(RACK6KR-G)	4
8	3033-71675-00	BRACKET(KL313-P1)	1
9	3033-70543-00	BRACKET(KR783)	1
10	3032-69097-02	RACK, ASSY(190FLAPPER)	2
11	3033-71822-00	CHUTE(6KL311-P1)	1
12	3093-51803-00	COVER(HARNESS)	1
13	3032-72119-00	CHUTE, ASSY(6KR783)	1
14	3093-51771-00	DUCT(BACK PLATE311GS)	1
15	3092-38815-00	DUCT, ASSY(BACK PLATE781GS)	1
16	3093-37730-03	PLATE(CONDENSER GUARD)	1
17	3593-12047-00	PLASTIC POINT(TAPPING)M4*10	1
18	3023-69549-00	LABEL(CONDENSER GUARD HK)	1
19	3093-51766-00	INNER BOX(BOTTOM PLATE L)	1
20	3093-38297-00	INNER BOX(BOTTOM PLATE R)	1
21	3031-69878-00	RACK, UNIT(KP6R1A)	3
22	3031-70590-00	RACK, UNIT(KY6R1A)	1
23	3031-69879-00	RACK, UNIT(KP6M1A)	3
24	3031-70591-00	RACK, UNIT(KY6M1A)	1
25	3031-69880-00	RACK, UNIT(KP6F1A)	3
26	3031-70592-00	RACK, UNIT(KY6F1A)	1
27	3033-69568-02	RACK(LOADING GUIDE KFL)	1*3
28	3033-69569-02	RACK(LOADING GUIDE KEL)	1*3
29	3033-69570-02	RACK(LOADING GUIDE KDL)	1*3
30	3033-69571-03	RACK(LOADING GUIDE KCL)	1*3
31	3033-69574-03	RACK(LOADING GUIDE KER)	2*3
32	3033-69575-03	RACK(LOADING GUIDE KCR)	1*3
33	3033-69568-02	RACK(LOADING GUIDE KFL)	1
34	3033-69569-02	RACK(LOADING GUIDE KEL)	1
35	3033-69570-02	RACK(LOADING GUIDE KDL)	1
36	3033-69571-03	RACK(LOADING GUIDE KCL)	1
37	3031-68466-00	VEND MECH, UNIT(KLP-C)	24
38	3033-66510-01	RACK(HARNESS COVER KLP)	3*4

3. INNER DOOR •MONEY INSERT•RETURN SLOT PARTS KB-GS20S AND KB-GS30S



3. INNER DOOR •MONEY INSERT•RETURN SLOT PARTS KB-GS20-S AND KB-GS30-S

No.	PARTS NUMBER	KB-GS20-S	KB-GS30-S	PARTS NAME
1	3092-38249-00	1	-	INNER DOOR, COMP(UP)
	3092-38123-00	-	1	INNER DOOR, COMP(UP)
2	3092-20826-03	1	-	GASKET(C INNER DOOR 952)
	3092-21327-03	-	1	GASKET(C INNER DOOR 1113)
3	3092-37359-01	1	-	INNER DOOR, COMP(LOWER)
	3092-38173-01	-	1	INNER DOOR, COMP(LOWER)
4	3093-31071-00	1	-	FRAME(INNER DOOR FLAPPER 243)
	3093-31069-00	-	1	FRAME(INNER DOOR FLAPPER 152)
5	3093-37631-00	1	1	FRAME(INNER DOOR FLAPPER 273)
6	3093-31693-01	1	-	FLAPPER(INNER DOOR 249)
	3093-17999-01	-	1	FLAPPER(INNER DOOR 158)
7	3092-31789-00	1	-	SPONGE(3*162*241)
	3092-18000-01	-	1	SPONGE(3*162*150)
8	3093-37818-00	1	1	FLAPPER(INNER DOOR 279)
9	3092-37819-00	1	1	SPONGE(3*162*271)
10	3093-21530-01	2	2	HINGE(INNER DOOR)
11	3093-28802-00	1	1	LEVER(INNER DOOR LOCK)
12	3093-28803-00	1	1	HOLDER(INNER DOOR LOCK)
13	3092-20826-03	1	-	GASKET(C INNER DOOR 952)
	3092-21327-03	-	1	GASKET(C INNER DOOR 1113)
14	3092-26515-01	1	1	SPONGE(15*30*70)
15	3093-31800-00	1	2	GUARD(DELIVERY PORT 4)
16	3092-29696-00	1	-	SPONGE(BACK PLATE 1551)
10	3092-28972-00	<u>_</u>	1	SPONGE(BACK PLATE 110L)
17	3092-38048-00	NOT LISED	1	SPONGE(BACK PLATE 210L)
18	3092-30697-00	1	1	SPONGE(BACK PLATE 210P)
10	3092 16085 00	2	2	SPONCE(2 5*/*100)
20	3092-10003-00	2	2	SPONCE(2:3 + 100)
20	3092-43721-00	1		
21	2002 1/278 01	1	1	
22	3002-14370-01	1	1	
23	2002 25094 01	1	1	
24	2092-22004-01		1	
20	3002-7 1420-02		1	
20	3092-30020-00			SPUNGE(2.5 10.5 005)
27	3092-30827-00		1	SPONGE(2.5 10.5 170)
28	3093-35562-03	2	2	
29	3092-36028-00	2	2	
30	3043-94742-04	1	1	
31	3043-94/43-04	1	1	
32	3093-36338-00	1	1	
33	3093-36132-00	1	1	
34	3093-22849-00	1	1	
35	3093-22398-00	1	1	
36	3093-37067-00	1	1	PLATE(REPAYMENT PUSH M)
37	3033-68399-00	2	2	SCREW(STEPPED 3)
38	3033-52431-02	1	1	VEND FLAPPER SPRING
39	3093-36770-00	1	1	SPACER(COIN MECH)
40	3093-37723-00	1	1	PLATE(REAR COIN)
41	3093-36133-00	1	1	CHUTE(SWITCHING 3)
42	3092-29578-00	1	1	SPONGE(18*14*14)
43	3093-36134-00	1	1	CHUTE(COIN RETURN)
44	3093-17253-04	1	1	DOOR(COIN RETURN PORT)
45	3043-68976-05	1	1	CASHBOX
46	3093-37794-00	1	1	DRAIN(BILL VALI)
47	3061-70379-00	1	1	CONTROLLER, UNIT(MAIN M)

3. INNER DOOR • MONEY INSERT • RETURN SLOT PARTS KB-GS24-S



3. INNER DOOR • MONEY INSERT•RETURN SLOT PARTS KB-GS24-S

No.	PARTS NUMBER	PARTS NAME	Qty per Unit	
1	3092-38123-00	INNER DOOR, COMP(UP)	1	
2	3092-21327-03	GASKET(C INNER DOOR 1113)	1	
3	3092-51788-00	INNER DOOR, COMP(LOWER)	1	
4	3093-31071-00	FRAME(INNER DOOR FLAPPER 243)	1	
5	3093-37631-00	FRAME(INNER DOOR FLAPPER 273)	1	
6	3093-31693-01	FLAPPER(INNER DOOR 249)	1	
7	3092-31789-00	SPONGE(3*162*241)	1	
8	3093-37818-00	FLAPPER(INNER DOOR 279)	1	
9	3092-37819-00	SPONGE(3*162*271)	1	
10	3093-21530-01	HINGE(INNER DOOR)	2	
11	3093-28802-00	LEVER(INNER DOOR LOCK)	1	
12	3093-28803-00	HOLDER(INNER DOOR LOCK)	1	
13	3092-21327-03	GASKET(C INNER DOOR 1113)	1	
14	3092-26515-01	SPONGE(15*30*70)	1	
15	3093-31800-00	GUARD(DELIVERY PORT 4)	2	
16	3092-38048-00	SPONGE(BACK PLATE 210L)	1	
17	3092-29697-00	SPONGE(BACK PLATE 210R)	1	
18	3092-16085-00	SPONGE(2.5*4*100)	2	
19	3092-43721-00	SPONGE(12*25*200)	3	
20	3093-36700-00	PANEL(INSERTING DOOR)	1	
21	3092-14378-01	SPONGE(2.5*4*800)	1	
22	3093-30463-00	INSERTING DOOR(ORANGE RING)	1	
23	3093-35084-01	PLATE(COIN INSERT)	1	
24	3082-74524-00	PAINTED PROTECTOR(BILL VALI-00419)	1	
25	3092-36026-00	SPONGE(2.5*10.5*665)	1	
26	3092-36827-00	SPONGE(2.5*10.5*170)	1	
27	3093-35562-03	PROTECTOR (BILL COVER)	2	
28	3092-36028-00	SPONGE(2.5*5*182)	2	
29	3082-74525-00	PAINTED SPACER(BILL COVER00419)	2	
30	3043-94742-04	CHUTE(INSERTING SECTION)	1	
31	3043-94743-04	COVER(INSERT CHUTE)	1	
32	3093-36338-00	BOARD(SMALL COIN)	1	
33	3093-36132-00	CHUTE(INSERT BOTTOM)	1	
34	3093-22849-00	LEVER(REPAYMENT)	1	
35	3093-22398-00	PLATE(REPAYMENT)	1	
36	3093-37067-00	PLATE(REPAYMENT PUSH M)	1	
37	3033-68399-00	SCREW(STEPPED 3)	2	
38	3033-52431-02	VEND FLAPPER SPRING	1	
39	3093-36770-00	SPACER(COIN MECH)	1	
40	3093-37723-00	PLATE(REAR COIN)	1	
41	3093-36133-00	CHUTE(SWIFCHING 3)	1	
42	3092-29578-00	SPONGE(18*14*14)	1	
43	3093-36134-00	CHUTE(COIN RETURN)	1	
44	3093-17253-04	DOOR(COIN RETURN PORT)	1	
45	3043-68976-05		1	
46	3093-37794-00		1	
47	3081-72435-00	PANEL(PAINTING DEVICE-00419)	1	
48	3061-73400-00	CONTROLLER, UNIT(MAIN)	1	

4. DOOR • DELIVERY PORT PARTS


4. DOOR • DELIVERY PORT PARTS

No.	PARTS NUMBER	KB-GS20-S	KB-GS30-S	KB-GS24-S	PARTS NAME
1	3C82-70447-00	1	- 1	-	PAINTED DOOR
	3082-74265-00		-	- 1	PAINTED DOOR
2	3081-69327-00	1	1	1	PAINTED FRAME(SIDE DOOR -00419)
3	3093-32386-00	1	1	-	STAY(SIDE DOOR)
	3093-50661-00	-	-	1	STAY(SIDE DOOR)
4	3093-34199-00	1	1	1	SPACER(SIDE DOOR)
5	3092-25791-01	1	1	1	ROLLER, COMP
6	3082-69265-01	1	1	1	PAINTED COVER(VENT -05252)
7	3092-24516-00	2	2	2	SPONGE(8*15*50)
8	3093-37912-00	1	-	-	COVER(WATER PROOF 270*320)
	3093-38661-00	-	1	-	COVER(WATER PROOF 225"320)
9	3093-36928-00	3	3	2	COVER(WATER PROOF 450 520)
10	3093-45822-00	NOT USED	NOT USED	1	COVER(WATER PROOF 145*285)
11	3093-51162-00	NOT USED	NOT USED	1	COVER(WATER PROOF140*140)
12	3092-41173-00	1	1	1	SPONGE(12*10*750)
13	3093-44087-00	NOT USED	NOT USED	2	SPONGE(20*20*820)
14	3092-45452-00	NOT USED	NOT USED	1	SPONGE(5*10*425)
15	3093-50652-00	NOT USED	NOT USED	1	COVER(DIGITAL UP)
16	3093-13684-01	1	1	1	RAIL(DOOR STOPPER)
1/	3093-25971-01	1	1	1	
10	3093-11433-00	1	1	1	
20	3093-27859-00	1	1	1	SPACER(UPPER DOOR HINGE)
21	3093-27860-00	1	1	1	COVER(UPPER DOOR HINGE)
22	3093-31824-01	1	1	1	DRAIN(HINGE)
23	3093-25665-01	1	1	1	SPACER(LOWER HINGE)
24	3043-91818-01	1	1	1	HINGE SPACER
25	3533-11387-00	1	1	1	HANDLE HK355 TZ10 2ALB1B
26	3093-25976-00	1	1	1	PLATE(KEY PLATE)
27	3092-16883-03	1	1	1	LOCK ANGLE, COMP
28	3093-14831-00	1	1	1	
29	3003 27025 00	2	2	1	
31	3533-11368-00	4	4	4	+HEXAGON FIX PACK BOLT M8*9.6
32	3093-37066-00	1	1	1	COVER(LOCK BACK M)
33	3081-68854-00	NOT USED	1	-	PAINTED INNER PANEL(LOWER -00419)
	3081-72436-00			1	PAINTED INNER PANEL(LOWER -00419)
34	3093-30837-02	NOT USED	1	1	PANEL(LOWER INNER PANEL FRAME)
35	3092-14378-01	NOT USED	2	2	SPONGE(2.5*4*800)
36	3033-68399-00	NOT USED	6	6	SCREW(STEPPED 3)
3/	3093-30838-01	NOT USED	1	1	
50	3093-38571-01		1		ERAME(DELIVERY T)
	3093-51796-00			1	FRAME(DELIVERY T)
39	3092-14937-00	• •	1		SPONGE(12*15*100)
40	3093-37964-01	1	-	-	FRAME(DELIVERY T2)
	3093-32437-02		1	-	FRAME(DELIVERY T2)
	3093-51797-00	-	-	1	FRAME(DELIVERY T2)
41	3093-37965-00		-	-	FRAME(DELIVERY FRONT F)
	3093-30372-01	-	1	-	
42	3092-37966-00	1		-	CUSHION/AC DELIVERY PORT 609)
72	3092-38573-00	-	1	-	CUSHION(AC DELIVERY PORT 799)
	3092-51799-00	-	-	1	CUSHION(AC DELIVERY PORT)
43	3093-15362-01	1	2	2	GUARD(DELIVERY F)
44	3093-31966-00	1	-	-	GUARDING PLATE
	3093-32441-00	-	1	-	GUARDING PLATE
1	3093-51800-00	-	-	1	
45	3093-1/829-01	1	-	-	
46	3093-15190-03	- 1	1	1	SPRING(DOOR DELIVERY DOOR)
47	3093-31497-02	1	1	1	SUPPORT(DOOR DELIVERY DOOR)
48	3093-25552-01	2	2	2	SUPPORT(T DOOR LR)
49	3092-14741-00	2	2	2	SPONGE(12*12*95)
50	3093-31967-01	1	1	1	BRACKET(DAMPER)
51	3533-11291-00	1	1	1	DAMPER TD91B2-1.5K
52	3093-37967-01	1	-	-	SHEET(BOTTOM DELIVERY PORT)
	3093-38677-00	-	1	-	SHEET(BOTTOM DELIVERY PORT)
52	3093-51801-00	-	-	1	SHELI (BOLI FOM DELIVERY PORT)
53	3092-28250-00	2	-	-	SPONGE(20*20*000) SPONGE(20*20*203)
	3092-10904-00		2	2	SPONGE(20*20*33)
54	3093-31969-00	1	-	-	SUPPORT(BOTTOM DELIVERY PORT)
	3093-38953-00	-	1	-	SUPPORT(BOTTOM DELIVERY PORT)
	3093-51802-00	-	-	1	SUPPORT(BOTTOM DELIVERY PORT)
55	3093-39026-02	NOT USED	1	1	CONTROL PLATE(DELIVERY PORT R)
56	3093-37016-00	NOT USED	NOT USED	1	CONTROL PLATE(DELIVERY PORT L)
57	3023-69737-00	1	1	1	LABEL(PICT DELIVERY PORT E)

5. DISPLAY PANEL PARTS



5. DISPLAY PANEL PARTS

No.	PARTS NUMBER	KB-GS20-S	KB-GS30-S	KB-GS24-S	PARTS NAME
1	3093-37331-00	1	-	-	PANEL(DISPLAY)
	3093-38286-00	-	1	-	PANEL(DISPLAY)
	3093-51794-00	-	-	1	PANEL(DISPLAY)
2	3092-14366-00	1	2	2	SPONGE(8*8*2000)
3	3092-15666-00	1	NOT USED	NOT USED	SPONGE(8*8*1500)
4	3093-38247-00	1	-	-	
	3093-38287-00		1	_	SUPPORT(PANEL UPPER)
	3093-51781-00			1	
5	2002 28246 00	- 1			
5	3093-36240-00	I	-	-	
	3093-38328-00	-	1	-	
	3093-45451-00	-	-	1	SUPPORT(PANEL LOWER)
6	3093-31096-00	NOT USED	1	1	SHEET(BLOCK HOLE)
7	3081-70590-00	1	1	-	PAINTED SUPPORT (PANEL LEFT-00419)
	3081-73872-00	-	-	1	PAINTED SUPPORT (PANEL LEFT-00419)
8	3081-70352-00	1	-	-	PAINTED SUPPORT (PANEL RIGHT -00419)
	3081-70667-00	-	1	-	PAINTED SUPPORT (PANEL RIGHT -00419)
	3081-73991-00	-	_	1	PAINTED SUPPORT (PANEL RIGHT -00419)
Q	3092-27430-00	NOT LISED	NOT LISED	1	SPONIGE(6*8*35)
10	3081_66780_02	1	2		
10	2001-00700-02		2	1	
4.4	3001-73992-00	NOT LIGED	NOT LIGED	4	PAINTED COVER(DAUN SELECTION BUTTON-00419)
11	3081-73944-00	NUT USED	NOT USED	1	BRAUNE I (PAIN I ING LED FRUN I-00419)
12	3092-27430-00	NOT USED	NOT USED	1	SPUNGE(6*8*35)
13	3081-70589-01	1	1		PAINTED COVER (BACK SELECTION BUTTON-00419)
	3081-73993-00	-	-	1	PAINTED COVER (BACK SELECTION BUTTON-00419)
14	3093-35061-00	10	15	12	PLATE(2CH DISPLAY)
15	3081-70353-02	1	-	-	PAINTED DOOR (DISPLAY -00419)
-	3081-70668-03	-	1	-	PAINTED DOOR(DISPLAY -00419)
	3081-73941-00	_		1	
16	3002 14367 00	2	2	2	
10	3092-14307-00	Z	2	2	
17	3693-00669-00	1	1		
18	3093-37395-00	2	3		BRACKET(DUMMY STAGE L)
	3093-47342-01	-	-	2	BRACKET(DUMMY STAGE L)
19	3093-37396-00	2	3		BRACKET(DUMMY STAGE R)
	3093-47343-01	-	-	2	BRACKET(DUMMY STAGE R)
20	3093-38086-00	2	3	NOT USED	HOLDER(LED)
21	3081-70595-00	2	3	-	PAINTED DUMMY STAGE(00419)
	3081-73990-00	-		2	PAINTED DUMMY STAGE(00419)
22	3043-28763-00	20	30	24	SAMPLE HOLDER
23	3092-29578-00	1	1	1	SPONGE(18*14*14)
24	3093-17678-01	2	_		
24	3003 36311 00	2	2	2	
25	2042 71260 00		2	2	
25	3043-71209-00	2	2	2	
20	3093-34088-00	2	-	-	PLATE(FEMALE HINGE 10)
	3093-39066-00		2	2	PLATE(FEMALE HINGE 10BL)
27	3093-25661-00	NOT USED	2	2	PIN(HINGE SAMPLE RACK)
28	3093-36313-00	NOT USED	1	1	SUPPORT (FEMALE HINGE 1)
29	3093-36314-00	NOT USED	1	1	SUPPORT(FEMALE HINGE 2)
30	3093-18054-01	1	1	-	DISPLAY DOOR LATCH
	3093-50676-00	-	-	1	DISPLAY DOOR LATCH
31	3093-18055-01	1	1	1	PLATE(DROP GUARD)
32	3033-68411-00	1	1	1	SCREW (STEPPED 2)
32	3003-50677-01	NOTHEED	NOTHEED	1	
24	2512 14255 04				
34	3013-11300-01			4	
35	3063-00794-00	2	3	4	
36	3663-00795-00	2	3	NOT USED	KBCV04M1-HK LAMP UNII
37	3663-00784-00	2	3	2	KBCV JOINTER
38	3663-00785-00	2	3	2	KBCV MALL(R)
39	3663-00786-00	2	3	2	KBCV MALL(L)
40	3513-11335-00	4	4	-	LFS70624A10B LED UNIT
	3513-11543-00	-	-	3	LF4C85072XM LED UNIT
41	3062-70366-00	1		NOT USED	BOX_ASSY(POWER L)
	3062-70525-01		1		BOX ASSY(POWER L)
10	3062-70320-01	4	4		
42	3003-70305-00			NOT USED	
43	3513-11291-00	1	1	NOT USED	LED DRIVE BUARD
44	3623-02792-00	1	1	1	U3U111 SW
45	3063-68848-00	1	1	1	BRACKET(DOOR SWITCH)
46	3062-70372-03	1	1	NOT USED	BOX, ASSY(MDB BOARD)
47	3063-70134-00	1	1	NOT USED	PLATE (MDB)
48	3063-70214-01	1	1	NOT USED	BOX (MDB)
49	3513-11354-01	1	1	NOT USED	MDB-C BOARD
50	3513-11336-01	NOT USED	NOT USED	1	MDB BOARD
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6. REFRIGERATION UNIT PARTS 1.COOLING, UNIT(AC-3C110*E)



6. REFRIGERATION UNIT PARTS

No.	PARTS NUMBER	KB-GS20-S	KB-GS30-S	KB-GS24-S	PARTS NAME	
1	3191-01822-00	1	-	-	COOLING UNIT(AC-3C1101E)	
	3191-01830-00	-	1	1	COOLING UNIT(AC-3C1102E)	
2	3062-64867-01	2	2	2	MOTOR, ASSY(9A0924G4D03)	
3	3053-57500-00	2	2	2	COVER(FAN DC230GS)	
4	3062-64112-02	2	2	2	WIRE HARNESS(COMPARTMENT TH)	
5	3053-54801-02	2	2	2	HOLDER(THERMISTOR)	
6	3052-55832-01	2	2	2	EVAPORATOR, COMP(E3*6*230)	
7	3053-55377-04	2	2	2	COVER(EVA 230K)	
8	3053-56214-01	2	2	2	BRACKET(HEATER 230)	
9	3062-70164-00	1	1	1	HEATER, ASSY(SHEATH 399W-230V)	
10	3062-70479-00	1	1	1	HEATER, ASSY(SHEATH 430W-100V)	
11	3052-54762-00	1	1	1	PIPE, COMP(VALVE 4C5112)	
12	3053-57480-00	1	1	1	PIPE(SV JOINT)	
13	3052-57467-01	1	-	-	PIPE, COMP(3C1101E)	
	3052-57615-01	-	1	1	PIPE, COMP(3C1102E)	
14	3053-57505-00	1	1	1	PIPE(DISCHARGE)	
15	3053-56886-02	1	1	1	DRYER(134A-2)	
16	3053-05007-03	2	2	2	CHARGE PIPE	
17	3053-57460-02	1	1	1	BASE(3C1101E)	
18	3052-55609-01	2	2	2	SCREW(+HEXA S TIGHT (WASHER) 5*30	
19	3053-56506-00	5	5	5	VIBRATION ABSORBING RUBBER (T11)	
20	3053-54907-01	5	5	5	COLLAR(CIRCLE 25 WITH GUARD)	
21	3052-56203-03	1	1		CONDENSER, COMP(3*7)	
22	3053-57506-00	1	1	1	COVER(SOLENOID VALVE)	
23	3053-57727-00	1	1	1	BRACKET(WATER PROOF)	
24	3053-57494-00	1	1	1	SHEET(COMPRESSOR COVER)	
25	3062-70185-01	1	1	1	BOX, ASSY (ELECTRICAL EQUIPMENT)	
26	3062-64473-02	1	1	1	WIRE HARNESS(OUT SIDE TH)	
27	3053-55040-02	1		1	HOLDER(THERMISTOR)	
28	3053-56188-01	1	1	1 COVER(OUTSIDE FAN MOTOR 3*7)		
29	3062-66682-01	1	1	1	MOTOR, ASSY(FBK12H24HE)	
30	3053-56189-01	1	1	1	BRACKET(OUTSIDE FAN MOTOR)	
31	3643-00330-00	2	2	2	COIL(TEV,220-240V50HZ)	
32	3053-55432-06		1	1	BRACKET(SOLENOID VALVE K)	
33	3633-00363-00		1	1	COMPRESSOR(FFU130HAX)	

7. WIRING PARTS KB-GS20-S

No.	PARTS NUMBER	PARTS NAME	Qty per Unit
1	3062-70373-00	WIRE HARNESS(ELBIN)	1
2	3062-70374-00	WIRE HARNESS(ELBOUT)	1
3	3062-70376-00	WIRE HARNESS(TC)	1
4	3062-70375-01	WIRE HARNESS(RACK)	1
5	3613-02391-01	VM504B(4M) POWER CABLE	1
6	3062-70370-00	WIRE HARNESS(SELECTION BUTTON)	1
7	3062-70368-00	WIRE HARNESS(LEDS)	1
8	3062-70369-01	WIRE HARNESS(LEDL)	1
9	3062-70367-00	WIRE HARNESS(COMMUNICATION)	1



7. WIRING PARTS KB-GS30-S

No.	PARTS NUMBER	PARTS NAME	Qty per Unit
1	3062-70373-00	WIRE HARNESS(ELBIN)	1
2	3062-70374-00	WIRE HARNESS(ELBOUT)	1
3	3062-70517-00	WIRE HARNESS(TC)	1
4	3062-70518-00	WIRE HARNESS(RACK)	1
5	3613-02391-01	VM504B(4M) POWER CABLE	1
6	3062-70521-00	WIRE HARNESS(SELECTION BUTTON)	1
7	3062-70523-00	WIRE HARNESS(LEDS)	1
8	3062-70524-00	WIRE HARNESS(LEDL)	1
9	3062-70526-01	WIRE HARNESS(COMMUNICATION)	1



7. WIRING PARTS KB-GS24-S

	No.	PARTS NUMBER	PARTS NAME	Qty per Unit	
Ī	1	3062-70373-00	WIRE HARNESS(ELBIN)	1	
	2	3062-70374-00	WIRE HARNESS(ELBOUT)	1	
	3	3062-73412-00	WIRE HARNESS(TC)	1	
	4	3062-73407-00	WIRE HARNESS(RACK)	1	
	5	3613-02391-01	VM504B(4M) POWER CABLE	1	
	6	3062-73409-00	WIRE HARNESS(SELECTION BUTTON)	1	
	7	3062-73411-00		1	
L	0	3002-73219-00	WIRE HARNESS(RS232C)	I	FOU
	8	3062-73219-00		1 (10) (11) (10) (11) (10) (11) (10) (11) (10) (11) (11) (10) (11) (11) (11) (11) (12) (12) (11) (12) (12) (11) (12) (12) (12) (12) (11) (12)	
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8. LABEL • ACCESSORIES PARTS KB-GS20-S



OPTION 15

8. LABEL·ACCESSORIES PARTS KB-GS20-S

No.	PARTS NUMBER	PARTS NAME	Qty per Unit
1	3023-70314-00	LABEL(HANDLING E)	1
2	3023-70315-00	LABEL(COLUMN SETTING E)	1
3	3023-72210-00	LABEL(EJECTION GUIDE ADJUST CARE)	1
4	3023-69485-01	LABEL(ADJ CAUTION E)	1
5	3023-68745-00	LABEL(COLUMN NUMBER -5-1)	1
6	3023-68746-00	LABEL(COLUMN NUMBER -5-2)	1
7	3023-68747-00	LABEL(COLUMN NUMBER -5-3)	1
8	3023-68748-00	LABEL(COLUMN NUMBER -5-4)	1
9	3023-69489-00	LABEL(OPERATION CARE E)	1
10	3023-69828-00	LABEL(BRAND)	1
11	3023-69785-00	LABEL(RECOVERY E, CYCLO R134A)	• 1
12	3023-69540-01	LABEL(REMOTE FIX POSITION E)	1
13	3092-29735-00	BAG, COMP(MANUAL)	1
14	3023-69481-02	SAFETY MANUAL	1
15	3161-02814-00	OPTION (MANUAL BOOK DATA)	1
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8. LABEL · ACCESSORIES PARTS KB-GS30-S



8. LABEL · ACCESSORIES PARTS KB-GS30-S

No.	PARTS NUMBER	PARTS NAME	QTY PER UNIT	1
1	3023-70314-00	LABEL(HANDLING E)	1	
2	3023-71294-00	LABEL(COLUMN SETTING E)	1	
3	3023-72210-00	LABEL(EJECTION GUIDE ADJUST CARE)	1	
4	3023-69485-01	LABEL(ADJ CAUTION E)	1	
5	3023-68720-00	LABEL(COLUMN NUMBER -6-1)	1	
6	3023-68721-00	LABEL(COLUMN NUMBER -6-2)	1	
7	3023-68722-00	LABEL(COLUMN NUMBER -6-3)	1	
8	3023-68723-00	LABEL(COLUMN NUMBER -6-4)	• 1	
9	3023-68724-00	LABEL(COLUMN NUMBER -6-5)	1	
10	3023-69489-00	LABEL(OPERATION CARE E)	1	
11	3023-69828-00	LABEL(BRAND)	1	
12	3023-69785-00	LABEL(RECOVERY E, CYCLO R134A)	1	
13	3023-69540-01	LABEL(REMOTE FIX POSITION E)	1	
14	3092-29735-00	BAG, COMP(MANUAL)	1	
15	3023-69481-02	SAFETY MANUAL	1	
16	3161-02815-00	OPTION (MANUAL BOOK DATA)	1	

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8. LABEL • ACCESSORIES PARTS KB-GS24-S



OPTION 15~16

8. LABEL·ACCESSORIES PARTS KB-GS24-S

No.	PARTS NUMBER	PARTS NAME	Qty per Unit
1	3023-70314-00	LABEL(HANDLING E)	1
2	3023-74766-00	LABEL(COLUMN SETTING E)	1
3	3023-72210-00	LABEL(EJECTION GUIDE ADJUST CARE)	1
4	3023-69485-01	LABEL(ADJ CAUTION E)	1
5	3023-68720-00	LABEL(COLUMN NUMBER -6-1)	1
6	3023-68721-00	LABEL(COLUMN NUMBER -6-2)	1
7	3023-68722-00	LABEL(COLUMN NUMBER -6-3)	1
8	3023-68723-00	LABEL(COLUMN NUMBER -6-4)	1
9	3023-69489-00	LABEL(OPERATION CARE E)	1
10	3023-69828-00	LABEL(BRAND)	1
11	3023-69785-00	LABEL(RECOVERY E, CYCLO R134A)	1
12	3023-69540-01	LABEL(REMOTE FIX POSITION E)	1
13	3092-29735-00	BAG, COMP(MANUAL)	1
14	3023-69481-02	SAFETY MANUAL	1
15	3161-02876-00	OPTION (MANUAL BOOK DATA)	1
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11 INFORMATION

11-1 PT. METEC SEMARANG

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12 **REVISION**

12-1 STIPULATED

- 1. August 2016 by Vending Machine Service Division (0626)
- 2. September 2016 by Vending Machine Service Division (0626)

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