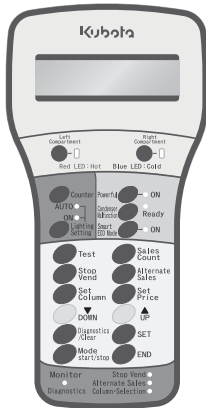




Keyboard Operation Manual



Kubota Vending Machines

Thank you for purchasing a Kubota vending machine. This manual explains how to operate the vender properly. Please read this manual and follow instructions for proper operation. Do not discard this manual after reading, and refer to it whenever there is anything uncertain.

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Part descriptions and function

Use to switch temperature setting for each compartment.
(Press continuously for more than 2 seconds.)

Press to select test mode

Press to stop vending

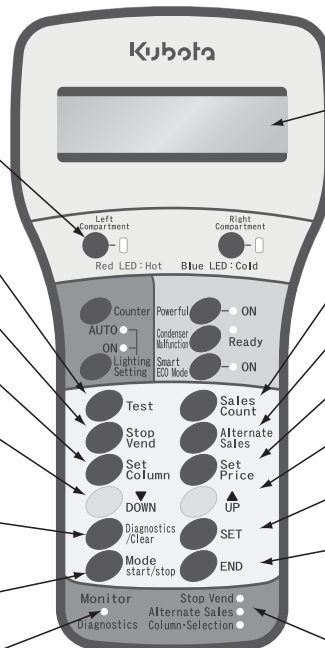
Press for column setting mode

Modify settings and data

1. Press to perform diagnostics
2. Press continuously for more than 2 seconds to clear data

1. Select mode function
2. Start/Stop test vend

Flashes in case of malfunction



1. Date, hour, and total sales count will displayed during idling.
2. Failure type and number of failures will be displayed in case of malfunction occurrence

Press to select sales count mode

Press to select alternative sales

Press for price setting mode

Modify settings and data

Press to confirm

End key board operation

LED indicate the activated function
• Stop vend
• alternative sales
• column-selection

Switching HOT/COLD temperature setting

HOT/COLD temperature setting of each compartment is selected using the temperature selection keys.

1. Press left compartment or right compartment key continuously for more than 2 seconds, and the LED next to the key will flash in either red or blue colour.
Keyboard display will indicate the current temperature setting.
2. Press the temperature selection key of the corresponding compartment to confirm the setting.
3. By not pressing any key for more than 5 seconds, or pressing "End" key, the keyboard will return to idle, and LED will stop flashing.

NOTE: Temperature setting is only available when the door is open.

(HOT : Red LED, displayed HOT) ※ Depending on the model, there may be compartment not suitable for HOT setting.
(COLD : Blue LED, displayed COLD)

Powerful Press to switch on/off powerful operation.
LED will turn on while powerful operation is activated.
Powerful operation will be cancelled in 2 hours from activation.

Lighting Setting Press to select lighting settings from "ON", "AUTO", or "OFF".
LED for corresponding setting will indicate the setting. Both LEDs will turn on when it is set in "OFF".

Smart ECO Mode Press to switch on/off smart ECO Mode setting.
LED will turn on while ECO Mode is active.

Condenser Malfunction LED will turn on, when condenser malfunction is detected.
Please check and clean the condenser, and then press the key after it is done.
Condenser is normal when the LED is not on.

Counter Total amount for each counter from G1 to G10 could be viewed by pressing the key.

View Counter

Press "Counter" key to view counters for each grouping.

1. Counter will indicate total amount at first. Press "Counter" key to show count by grouping.
show count by grouping.
2. Next counter will be displayed by pressing the key again.
3. Indicated counter will return to that of total after the final counter.

| | |
|----|--------|
| G1 | 345678 |
|----|--------|

Example: G1 counter

Specified Key Function List

| Key | Operation | Indicator | Function | Note |
|--------|---------------|-----------|---|--------------------|
| ● Test | press once | f 5 f 1 | Single Test Vend Coin Test Vend | |
| | press twice | f 5 f 2 | Consecutive Test Vend (Selection button) Consecutive Test Vend (Keyboard operated) | columns selectable |
| | press 3 times | f 5 f 3 | Rapid Consecutive Test Vend (Selection button) Rapid Consecutive Test Vend (Keyboard operated) | columns selectable |
| | press 4 times | f 5 f 4 | Sequential Test Vend | |

| Key | Operation | Indicator | Function | Note |
|---------------|----------------|-----------|---|---------------|
| ● Sales Count | press once | f L | View/Clear Total Vend Count and Vend Count per Column | 0 - 999999 |
| | press twice | f P | View/Clear Total Sales and Sales per Column | \$0 - 99999.9 |
| | press 3 times | G L | View/Clear Group Vend Count | 0 - 999999 |
| | press 4 times | G P | View/Clear Group Sales Value | \$0 - 99999.9 |
| | press 5 times | P L | View/Clear Vend Count per Pricing | 0 - 999999 |
| | press 6 times | P P | View/Clear Sales Value per Pricing | \$0 - 99999.9 |
| | press 7 times | H | View/Clear Count of Test Vends | 0 - 999999 |
| | press 12 times | r L | View Lifetime Vend Count | 0 - 999999 |
| | press 13 times | b L | View Lifetime Vend Count for Purchase by Cash | 0 - 999999 |
| | press 14 times | L L | View Lifetime Vend Count for Purchase by Other Payments | 0 - 999999 |
| | press 15 times | r P | View Lifetime Sales Value | \$0 - 99999.9 |
| | press 16 times | b P | View Lifetime Sales by Cash | \$0 - 99999.9 |
| | press 17 times | L P | View Lifetime Sales by Other Payments | \$0 - 99999.9 |

| Key | Operation | Indicator | Function | Note |
|-------------|-------------|-----------|---------------------------------------|------------------------------|
| ● Stop Vend | press once | H | Set/View Suspend Vending Hours/Column | 0 - 24hours (desired column) |
| | press twice | | Set/View Set Suspend Vending Mode | 0 - 1 |

| Key | Operation | Indicator | Function | Note |
|-------------------|------------|-----------|------------------------------|-----------------------------|
| ● Alternate Sales | press once | G r | Set/View Set Alternate Sales | desired columns (30 Groups) |

| Key | Operation | Indicator | Function | Note |
|--------------|----------------------------|-----------|-------------------------|----------------|
| ● Set Column | press once, | L L | Set/View Space to Sales | desired column |
| | then press (Check / Clear) | L L | Preset Factory Setting | |

| Key | Operation | Indicator | Function | Note |
|-------------|-------------|-----------|-----------------------------------|-------------------------|
| ● Set Price | press once | | Set/View Product Pricing | \$0 - 999.9 (by \$0.1s) |
| | press twice | | Set/View Product Pricing by Cards | \$0 - 999.9 (by \$0.1s) |

| Key | Operation | Indicator | Function | Note |
|-----------------------|------------|-----------|---------------------------------|---------------------------------|
| ● Diagnostics / 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.

Mode Key Function List

| Operation | Indicator | Function | Data |
|--|---|---|--|
| MODE Start Stop ↓ UP DOWN SET ↓ UP DOWN | 1 - 0 1 | Batch Mode (Space to Sales Pattern) Setting | 1-3 = available patterns 99 = Factory setup |
| | 1 - 0 2 | Group Count Setting | 1 - 15 groups |
| | 1 - 0 3 | Multiple Purchase Setting | 0 - 9 (0 = infinite) |
| | 1 - 0 4 | Set Maximum Loading Capacity | 0 - 99 |
| | 1 - 0 9 | Automatic Change Release Time | 0-30 secs (0 = infinite) |
| | 1 - 1 0 | All Columns Free-vend | 0 = No, 1 = Yes |
| | 1 - 1 1 | View / Clear Error History | |
| | 1 - 1 2 | Enter Refill Quantity | 0 - 99 |
| | 1 - 1 3 | Set Consume-by Date | 0 - 98 days 99 = simultaneous |
| | 1 - 1 4 | Check for Columns with Expired Consume-by Date | |
| | 1 - 1 5 | Free Column Setting | |
| | 1 - 1 6 | Suspend Session While Loading (or Door Open) (SSL) | 0 = No, 1 = Yes |
| | 1 - 2 6 | Vend Restriction on Columns with Expired Consume-by Date | 0 = No, 1 = Yes |
| | 1 - 6 1 | Show Reason of "Sold-out" | 0 = hide, 1 = show |
| | 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 |
| | 2 - 0 3 | Lighting Saving Hours | Hours between 0-24 |
| | 2 - 0 4 | Refrigeration Unit Power Saving Hours | Hours between 0-24 |
| | 2 - 0 5 | Set Clock | 00:00 - 23:59 |
| | 2 - 0 6 | Set Month and Date | 1/1 - 12/31 |
| 2 - 0 7 | Set Year | Four digits | |
| 2 - 1 0 | Bill Validator Blocking Hours | Hours between 0-24 | |
| 2 - 1 1 | Fake "No Change" Lamp During Night Time | Hours between 0-24 | |
| 2 - 1 3 | Light Saving by Days | 1 = Sunday, 2 = Monday, 3 = Tuesday, 4 = Wednesday, 5 = Thursday, 6 = Friday, 7 = Saturday, - = none | |

| Operation | Indicator | Function | Data |
|--|-----------|---------------------------------------|--|
| MODE Start Stop ↓ UP DOWN SET ↓ UP DOWN | 3 - 0 1 | 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 - 0 2 | Daylight Sensor Sensitivity Setting | 1 = Latest 2 = Late 3 = Intermediate 4 = Early 5 = Earliest |
| | 3 - 0 3 | Set Counter per Groups | Desired counter |
| | 3 - 0 4 | Set Compartment Temperature Level | 0 - 10 |
| | 3 - 0 5 | Lighting Failure Check | 0 = No, 1 = Yes |
| | 3 - 1 1 | Mute Digital Display Beeper | 0 = on, 1 = off, 2 = on (low volume) |
| | 3 - 3 0 | Selection Button Illumination Pattern | 0 - 6 |
| | 3 - 3 1 | Selection Button Illumination Hours | Hours between 0-24 |

Specified Key Operations

Single Test Vend

| Proce-dure | Key | Indication | Operation |
|------------|-----------------|------------------------------|--|
| 1 | Test | Single Test Test 1 | Press Test Key. |
| 2 | | Single Test Test 1 | Press selection button, selected product will be vended. |
| 3 | UP DOWN | 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 | 31/10/2011 12:34 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.

Coin Test Vend

| Proce-dure | Key | Indication | Operation |
|------------|-------------|------------------------------|--|
| 1 | Test | Single Test Test 1 | Press Test Key. |
| 2 | Insert Coin | Single Test Test 1 | Insert coin. |
| 3 | | Single Test Test 1 | Product could be test vended. |
| 4 | END | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

- Coin test vend will not be included in the count.

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 | | 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 ↓ 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 | 31/10/2011 12:34 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 about 7–10 minutes to avoid overheating the solenoid.

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 | UP DOWN | 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 | 31/10/2011 12:34 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 about 7–10 minutes to avoid overheating the solenoid.

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 | | 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 7 ↓ Selected Column Rapid 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 | 31/10/2011 12:34 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 about 7–10 minutes to avoid overheating the solenoid.

Rapid Consecutive Test Vend (Select column using remote keyboard)

| Proce-dure | Key | Indication | Operation |
|------------|-----------------|------------------------------|--|
| 1 | Test Press×3 | Rapid Test Test 3 | Press Test Key three times. |
| 2 | UP DOWN | 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 | 31/10/2011 12:34 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 about 7–10 minutes to avoid overheating the solenoid.

Specified Key Operations

Sequential Test Vend

| Procedure | Key | Indication | Operation |
|-----------|--------------------|------------------------------|---|
| 1 | Test Press x4 | 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 | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

View/Clear Total Vend Count and Vend Count per Column

| Procedure | 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 Column 7 123456 | Press selection button to select column. Vend Count for the selected column will be displayed. |
| 3 | UP DOWN | 01 Count-Column Column 8 234567 | Press UP or DOWN Key to select column number. |
| 4 | Diagnostics /Clear | CLR 0 | Press Diagnostics/Clear Key to clear Total Vend Count and Vend Count for all columns. |
| 5 | END | 31/10/2011 12:34 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.

View/Clear Group Vend Count

| Procedure | Key | Indication | Operation |
|-----------|----------------------------|-------------------------------|---|
| 1 | Sales Count Press x3 | 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 | UP DOWN | 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 | 31/10/2011 12:34 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.

View Lifetime Vend Count

| Procedure | Key | Indication | Operation |
|-----------|-----------------------------|------------------------------|--|
| 1 | Sales Count Press x12 | 12 Count-Total rC 901234 | Press Sales Count Key twelve times. Lifetime count of vends from product purchase will be displayed. |
| 2 | END | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

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

Set/View Suspend Vending Hours/Column

| Procedure | Key | Indication | Operation |
|-----------|---------------------|------------------------------|--|
| 1 | Stop Vend | Suspend Column Hour 0 | Press Stop Vend Key. |
| 2 | UP DOWN | 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 | Selection button | Suspend Column Hour 1 | Press Selection button to select columns subject to this setting. Lamps of the selected columns will illuminate. |
| 5 | END | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

- 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.


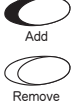



Set/View Suspend Vending Mode

| Procedure | Key | Indication | Operation |
|-----------|--------------------------|--------------------------------|--|
| 1 | Stop Vend Press x2 | Suspend Mode Auto Set OFF 1 | Press Stop Vend Key twice. |
| 2 | UP DOWN | Suspend Mode Auto Set OFF 0 | Press UP or DOWN Key to select mode. |
| 3 | SET | Suspend Mode Auto Set ON 0 | Press SET Key to confirm setting. |
| 4 | END | 31/10/2011 12:34 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, vender will automatically suspend vend according to "Set Suspend Vending Hours/Columns" setting.




Specified Key Operations

Set/View Alternate Sales

| Procedure | Key | Indication | Operation |
|-----------|---|------------------------------|--|
| 1 |  | Alternate Sales Group 1 | Press Alternate Sales Key. |
| 2 |  | 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 |  | Alternate Sales Group 1 | Long Press Diagnostics / Clear Key for more than 2 seconds to clear all alternate sales settings. |
| 5 |  | 31/10/2011 12:34 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 group settings.

View/Clear Occurring Error Code

| Procedure | Key | Indication | Operation |
|-----------|--|------------------------------|--|
| 1 |  | Coin-mech err 10 | Press Diagnostics/Clear Key. "End" will be displayed if there is no error. |
| 2 |  | End | Press UP key to view next error code. |
| 3 |  | 31/10/2011 12:34 T 567890 | 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.

Set/View Space to Sales

| Procedure | Key | Indication | Operation |
|-----------|---|------------------------------|--|
| 1 |  | Column-Selection Column 1 | Press Set Column Key. Vend lamps of all selection buttons connected to Column 1 will illuminate. |
| 2 |  | 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 |  | 31/10/2011 12:34 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.

Set/View Product Pricing



| Procedure | Key | Indication | Operation |
|-----------|---|------------------------------|---|
| 1 |  | Set Price \$ 0.0 | Press Set Price Key. |
| 2 |  | Set Price \$ 2.0 | Press UP or DOWN Key to select pricing. |
| 3 |  | Set Price \$ 2.0 | Press Selection button of the corresponding product to adopt the pricing. Multiple columns could be selected at once. |
| 4 |  | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

- Pricing Range \$0 ~ 999.9
- 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.

Mode Key Operations

Group Count Setting

1-02

| Procedure | Key | Indication | Operation |
|-----------|----------------|------------------------------|---|
| 1 | Mode start/sto | Selection Mode "1"-01 | Press Mode Key. |
| 2 | SET | Selection Mode "1"-01 | Press Set Key. |
| 3 | UP DOWN | 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 | UP DOWN | Group Counts 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.  |
| : | : | | Repeat procedures 5-7 to complete set up for all groups. |
| 8 | END | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

Free Column Setting

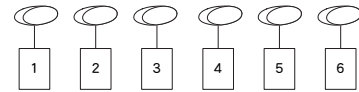
1-15

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

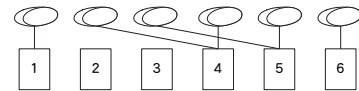
| Procedure | Key | Indication | Operation |
|---|----------------|------------------------------|---|
| 1 | Mode start/sto | Selection Mode "1"-01 | Press Mode Key. |
| 2 | SET | Selection Mode "1"-01 | Press Set Key. |
| 3 | UP DOWN | Free-column 1-15 | Press UP or DOWN Key to select function number 15. |
| 4 | SET | Free-column column 2 | Press SET Key. Column number of the unassigned column will be appear on the remote display. |
| 5 | | 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 3 | "End" will be displayed after setting the last column. |
| 9 | END | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

[Flow of the free column setting]

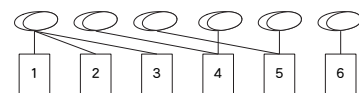
1. Default connection.



2. Create unassigned columns. (Space to Sales function.)



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



(NOTES)

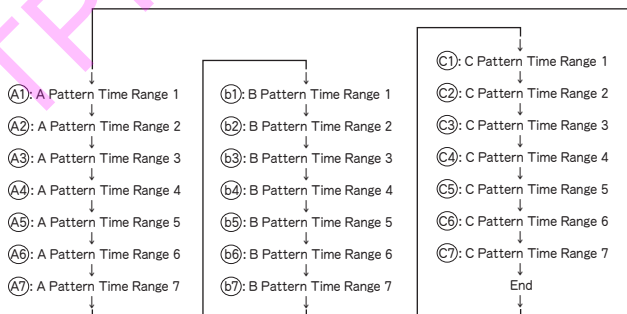
- Unassigned columns must be created beforehand in Space to Sales operation. (Please refer to Specified Keys operation manual.)
- Free column setting is available up to 10 groups.
- Columns with different pricing can not be grouped together.
- Columns in different compartment can not be grouped together.
- When Free Column operation is set, all Alternative Sales settings will be canceled.
- 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.

Mode Key Operations

School Timer Hours Setting 2-01

| Procedure | Key | Indication | Operation |
|--|--------------------|------------------------------|---|
| 1 | Mode start/sto | Selection Mode "1"-01 | Press Mode Key. |
| 2 | UP/DOWN | School Timer "2"-01 | 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 | UP/DOWN | School Timer "b3" | Press UP or DOWN Key to select setting. |
| 6 | SET | School Timer b3 Begin "00"00 | Press Set Key. |
| 7 | UP/DOWN | School Timer b3 Begin "08"00 | Press UP or DOWN Key to set start time. (Hours) |
| 8 | SET | School Timer b3 Begin "08"00 | Press Set Key to confirm setting. |
| 9 | UP/DOWN | School Timer b3 Begin "08"15 | Press UP or DOWN Key to set start time. (Minutes) |
| 10 | SET | School Timer b3 End "00"00 | Press Set Key. |
| 11 | UP/DOWN | School Timer 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 | UP/DOWN | School Timer b3 End "08"45 | Press UP or DOWN Key to set end time. (Minutes) |
| 14 | SET | School Timer "b4" | Press Set Key. |
| Repeat procedures 5 - 14 to complete set up. | | | |
| 15 | Diagnostics /Clear | School Timer "b1" | 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 | 31/10/2011 12:34 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.
- Setting Procedure:



- "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

| Procedure | Key | Indication | Operation |
|---|----------------|------------------------------|---|
| 1 | Mode start/sto | Selection Mode "1"-01 | Press Mode Key. |
| 2 | UP/DOWN | School Timer "2"-01 | Press UP or DOWN Key to select mode number 2. |
| 3 | SET | School Timer "2"-01 | Press Set Key. |
| 4 | UP/DOWN | School Timer DAY "2"-02 | Press UP or DOWN Key to select function number 2. |
| 5 | SET | 1: Sunday Not Set "0" | Press Set Key. |
| 6 | UP/DOWN | 1: Sunday Pattern "A" | Press UP or DOWN Key to select setting. |
| 7 | SET | 2: Monday Not Set "0" | Press SET Key. Next day will appear on the display. |
| Repeat procedures 6 and 7 to complete set up. | | | |
| 8 | END | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

• 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

| Day | Pattern | Hours |
|-----------|---------|----------------------------|
| Sunday | 0 | 0:00 ~ 24:00 |
| Monday | A | A1, A2, A3, A4, A5, A6, A7 |
| Tuesday | A | A1, A2, A3, A4, A5, A6, A7 |
| Wednesday | A | A1, A2, A3, A4, A5, A6, A7 |
| Thursday | A | A1, A2, A3, A4, A5, A6, A7 |
| Friday | b | b1, b2, b3 |
| Saturday | C | C1 |

- A1 : 01:00 ~ 04:00 B1 : 06:00 ~ 08:00 C1 : 06:00 ~ 18:00
- A2 : 05:00 ~ 07:00 B2 : 09:00 ~ 14:00 C2 : Not Set
- A3 : 08:00 ~ 10:00 B3 : 15:00 ~ 18:00 C3 : Not Set
- A4 : 11:00 ~ 13:00 B4 : Not Set C4 : Not Set
- A5 : 15:00 ~ 16:00 B5 : Not Set C5 : Not Set
- A6 : 17:00 ~ 19:00 B6 : Not Set C6 : Not Set
- A7 : 20:00 ~ 21:00 B7 : Not Set C7 : Not Set

Mode Key Operations

Lighting Saving Hours 2-03

2-03

| Procedure | Key | Indication | Operation |
|-----------|----------------|------------------------------|---|
| 1 | Mode start/sto | Selection Mode "1"-01 | Press Mode Key. |
| 2 | UP/DOWN | School Timer "2"-01 | Press UP or DOWN Key to select mode number 2. |
| 3 | SET | School Timer 2-01 | Press Set Key. |
| 4 | UP/DOWN | Light Save Hours 2-03 | Press UP or DOWN Key to select function number 3. |
| 5 | SET | Light Save Hours 0000 | Press Set Key. |
| 6 | UP/DOWN | Light Save Hours 0700 | Press UP or DOWN Key to set start time. |
| 7 | SET | Light Save Hours 0700 | Press Set Key to confirm setting. |
| 8 | UP/DOWN | Light Save Hours 0717 | Press UP or DOWN Key to set end time. |
| 9 | SET | Light Save Hours 0717 | Press Set Key . |
| 10 | END | 31/10/2011 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".

Set Clock 2-05

2-05

| Procedure | Key | Indication | Operation |
|-----------|----------------|------------------------------|--|
| 1 | Mode start/sto | Selection Mode "1"-01 | Press Mode Key. |
| 2 | UP/DOWN | School Timer "2"-01 | Press UP or DOWN Key to select mode number 2. |
| 3 | SET | School Timer 2-01 | Press Set Key. |
| 4 | UP/DOWN | Clock NOW 2-05 | Press UP or DOWN Key to select function number 5. |
| 5 | SET | Clock NOW 0000 | Press Set Key. |
| 6 | UP/DOWN | Clock NOW 1200 | Press UP or DOWN Key to set clock hour. |
| 7 | SET | Clock NOW 1200 | Press Set Key. |
| 8 | UP/DOWN | Clock NOW 1234 | 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 | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

- System uses 24 hour clock.

Refrigeration Unit Power Saving Hours 2-04

2-04

| Procedure | Key | Indication | Operation |
|-----------|----------------|------------------------------|---|
| 1 | Mode start/sto | Selection Mode "1"-01 | Press Mode Key. |
| 2 | UP/DOWN | School Timer "2"-01 | Press UP or DOWN Key to select mode number 2. |
| 3 | SET | School Timer 2-01 | Press Set Key. |
| 4 | UP/DOWN | Unit Save Hours 2-04 | Press UP or DOWN Key to select function number 4. |
| 5 | SET | Unit Save Hours 0000 | Press Set Key. |
| 6 | UP/DOWN | Unit Save Hours 0200 | Press UP or DOWN Key to set start time. |
| 7 | SET | Unit Save Hours 0200 | Press Set Key. |
| 8 | UP/DOWN | Unit Save Hours 0208 | Press UP or DOWN Key to set end time. |
| 9 | SET | Unit Save Hours 0208 | Press Set Key . |
| 10 | END | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

- System uses 24 hour clock.
- Selectable hours are from 0 ~ 24.
- * Power Saving will be disabled when set to 0000.

Set Month and Date 2-06

2-06

| Procedure | Key | Indication | Operation |
|-----------|----------------|------------------------------|--|
| 1 | Mode start/sto | Selection Mode "1"-01 | Press Mode Key. |
| 2 | UP/DOWN | School Timer "2"-01 | Press UP or DOWN Key to select mode number 2. |
| 3 | SET | School Timer 2-01 | Press Set Key. |
| 4 | UP/DOWN | Month/Date NOW 2-06 | Press UP or DOWN Key to select function number 6. |
| 5 | SET | Month/Date NOW 0101 | Press Set Key. |
| 6 | UP/DOWN | Month/Date NOW 1001 | Press UP or DOWN Key to set Month. |
| 7 | SET | Month/Date NOW 1001 | Press Set Key. |
| 8 | UP/DOWN | Month/Date NOW 1023 | 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 | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

Mode Key Operations

Set Year 2-07

2-07

| Procedure | Key | Indication | Operation |
|-----------|-----|------------------------------|--|
| 1 | | Selection Mode "1"-01 | Press Mode Key. |
| 2 | | School Timer "2"-01 | Press UP or DOWN Key to select mode number 2. |
| 3 | | School Timer "2"-01 | Press Set Key. |
| 4 | | Year NOW "2"-07 | Press UP or DOWN Key to select function number 7. |
| 5 | | Year NOW "2011 | Press Set Key. |
| 6 | | Year NOW "2013 | Press UP or DOWN Key to set Year. |
| 7 | | Year NOW 2013 | Press Set Key, and current year will be displayed. |
| 8 | | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

Daylight Sensor Sensitivity Setting 3-02

| Procedure | Key | Indication | Operation |
|-----------|-----|------------------------------|---|
| 1 | | Selection Mode "1"-01 | Press Mode Key. |
| 2 | | Light Management "3"-01 | Press UP or DOWN Key to select mode number 3. |
| 3 | | Light Management "3"-01 | Press Set Key. |
| 4 | | Daylight Sensor "3"-02 | Press UP or DOWN Key to select function number 2. |
| 5 | | Daylight Sensor Early "4" | Press Set Key. |
| 6 | | Daylight Sensor Latest "1" | Press UP or DOWN Key to select setting. |
| 7 | | Daylight Sensor Latest 1 | Press Set Key to confirm setting. |
| 8 | | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

- Available settings
- 1= Latest
- 2= Late
- 3= Intermediate
- 4= Early
- 5= Earliest

Lighting Management Mode Setting 3-01

| Procedure | Key | Indication | Operation |
|-----------|-----|-----------------------------------|---|
| 1 | | Selection Mode "1"-01 | Press Mode Key. |
| 2 | | Light Management "3"-01 | Press UP or DOWN Key to select mode number 3. |
| 3 | | Light Management "3"-01 | Press Set Key. |
| 4 | | 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 | | Light Management Off PRI "0" | Press Set Key. |
| 7 | | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

- Available settings:
- 0: Off PRI = Lights will stay off during light saving hours regardless of darkness.
- 1: Lighting PRI = Lights will turn on even during light saving hours when it gets dark.
- 2: 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".

Set Counter per Groups 3-03









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

| Procedure | Key | Indication | Operation |
|-----------|-----|------------------------------|---|
| 1 | | Selection Mode "1"-01 | Press Mode Key. |
| 2 | | Light Management "3"-01 | Press UP or DOWN Key to select mode number 3. |
| 3 | | Light Management "3"-01 | Press Set Key. |
| 4 | | Count per Group "3"-03 | Press UP or DOWN Key to select function number 3. |
| 5 | | Count per Group "1" | Press Set Key. |
| 6 | | Count per Group "2" | Press UP or DOWN Key to select group. |
| 7 | | Count per 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 "3" | Press UP or DOWN Key to move on to next group. |
| 9 | | 31/10/2011 12:34 T 567890 | Press END Key to return to normal operation. |

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

Mode Key Operations











Selection Button Illumination Pattern 3-30

| Procedure | Key | Indication | Operation |
|-----------|---|------------------------------|--|
| 1 |  | Selection Mode 1-01 | Press Mode Key. |
| 2 |  | Light Management 3-01 | Press UP or DOWN Key to select mode number 3. |
| 3 |  | Light Management 3-01 | Press Set Key. |
| 4 |  | Illumination MD 3-30 | Press UP or DOWN Key to select function number 30. |
| 5 |  | Illumination MD OFF 0 | Press Set Key. |
| 6 |  | Illumination MD Pattern 1 | Press UP or DOWN Key to select desired setting. |
| 7 |  | Illumination MD Pattern 1 | Press Set Key to confirm setting. |
| 8 |  | 10/10/2010 12:34 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.

Selection Button Illumination Hours 3-31

| Procedure | Key | Indication | Operation |
|-----------|---|------------------------------|--|
| 1 |  | Selection Mode 1-01 | Press Mode Key. |
| 2 |  | Light Management 3-01 | Press UP or DOWN Key to select mode number 3. |
| 3 |  | Light Management 3-01 | Press Set Key. |
| 4 |  | Illumination TM 3-31 | Press UP or DOWN Key to select function number 31. |
| 5 |  | Illumination TM 0000 | Press Set Key. |
| 6 |  | Illumination TM 0800 | Press UP or DOWN Key to select illumination beginning hour. (Upper 2 digits are the beginning hour.) |
| 7 |  | Illumination TM 0800 | Press Set Key to confirm setting. |
| 8 |  | Illumination TM 0817 | Press UP or DOWN Key to select illumination ending hour. (Lower 2 digits are the ending hour.) |
| 9 |  | Illumination TM 0817 | Press Set Key to confirm setting. |
| 10 |  | 10/10/2010 12:34 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.

Error codes and Corrective Actions

Coin Mechanism related

| Error codes | Occurring Error | Check point | Action | Recovery verification | Sold-out columns | |
|-------------|-------------------------------|--|--|--|------------------|--|
| 1 0 | Coin-mech communication error | Check harness and connectors for disconnection. | Reconnect harness. If there seems to be no problem, replace the coin mech. | Insert coin of all types, check for correct reading. Insert coin of all types, operate coin return lever, check correct payout. | All Columns | |
| 1 1 | 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. | | | |
| 1 5 | Return switch error | Coin return lever stuck. | If there seems to be no problem, replace the coin mech. | | | |
| 1 6 | Coin payout failure | Check payout area for jammed coin. | Remove jammed coin. If there seems to be no jam, replace the coin mech. | | | |
| 1 7 | 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. | | | |
| 1 8 | Pulse switch error | Check payout area for jammed coin. | Remove jammed coin. If there seems to be no jam, replace the coin mech. | | | |
| 1 9 | 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. | | | |
| 2 0 | 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. |
| 2 5 | Coin sensor error | Check coin selector for jammed coin. Inspect coin selector. | If there seems to be no problem, replace the selector or coin mech. | | | Insert coin of all types, check for correct reading. Insert coin of all types, operate coin return lever, check correct payout. |
| 2 6 | Sensor A error | | | | | |
| 2 7 | Sensor B error | | | | | |
| 2 8 | Sensor C error | | | | | |

Vending system related

| Error codes | Occurring Error | Check point | Action | Recovery verification | Sold-out columns |
|-------------|--------------------------|---|--|---|----------------------|
| 3 4 | Selection switch error | Check for stuck selection button with sold-out. | If there seems to be no problem, replace the selection button. | Similar error shall not occur within 1 minute after correction. | Corresponding Column |
| 3 8 | Vend management error | Check delivery and vend mechanism. | If there seems to be no problem, replace the component. | Conduct test vend. | |
| 4 1 | Dispensing motor failure | | | | |

Memory related

| Error codes | Occurring Error | Check point | Action | Recovery verification | Sold-out columns |
|-------------|---------------------------------|--|------------------------------|---|------------------|
| 5 0 | Clock data error | Check current time setting on the keyboard. | Reset current time setting. | Check current time setting on the keyboard. | — |
| 5 1 | Memory data error | Check data on the keyboard. | Reset all data. | Check all data on the keyboard. | All Columns |
| 5 3 | Invalid model assignment | Check model code setting. | Set correct model code. | Check space to sales setting by test vending. | — |
| 5 4 | Selection button settings error | Check for column not assigned to any selection button. | Redo space to sales setting. | | |

Communications related

| Error codes | Occurring Error | Check point | Action | Recovery verification | Sold-out columns |
|-------------|---|---|---|---|------------------|
| 6 1 | Selection indicator communication error | Check slave control board. Check harness and connectors for disconnection. | If there seems to be no problem, replace the slave control board. | Test vend by coins. | All Columns |
| 6 2 | Product delivery unit communication error | | | | |
| 6 4 | Printer communication error | Check printer connector for disconnection. | If there seems to be no problem, replace the printer. | Operate printer. | — |
| 6 7 | Keyboard unit communication error | Check keyboard connector for disconnection. | If there seems to be no problem, replace the keyboard. | Check keyboard function and display. | |
| 7 1 | Bill validator communication error | Check harness and connectors for disconnection. | Reconnect harness. If there seems to be no problem, replace the bill validator or card unit. | Test if the bill or card could be properly accepted, returned and vend. | |
| 7 3 | Card unit communication error | | | | |

Error codes and Corrective Actions

Bill Validator related

| Error codes | Occurring Error | Check point | Action | Recovery verification | Sold-out columns |
|-------------|-----------------------|---|--|---|------------------|
| 8 0 | Jammed bill | Check for jammed bill. | Remove jammed bill. | Check if the bill could be properly accepted and returned. Error code cleared. | — |
| 8 1 | Bill dispensing error | | | | |
| 8 2 | Cashbox full | Empty the cashbox. | Collect bill. | | |
| 8 3 | Stacker error | Check that stacker lid is closed correctly. | Close the lid. | | |
| 8 4 | Identifier error | Check for jammed bill. | Remove jammed bill. | | |
| 8 5 | Safety switch error | Check condition of the identifier. | Close back lid of the identifier. | | |
| 8 6 | Cashbox unlocked | Check that cashbox lid is closed correctly. | Close the lid. | | |
| 8 7 | Bill extracted | Detected bill extraction , check for jammed bill. | Leave it for 30 minutes, or open and shut the lid. | | |

Cooling and heating system related

| Error codes | Occurring Error | Check point | Action | Recovery verification | Sold-out columns |
|-------------|---|---|--|---|----------------------|
| 9 0 | 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 Column |
| 9 1 | 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. | |
| 9 6 | 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. | |
| 501 | HOT / COLD setting error | Check HOT/COLD selection switch. Check harness and connectors for disconnection. | Redo setting correctly. Reconnect harness. | Error code cleared. | |
| 502 | Compartment 1 fan failure | Check compartment 1 fan motor. | Reconnect harness. If there seems to be no problem, replace fan motor. (CAUTION: Always reset the machine by switching the power ON/OFF after corrective action.) | | |
| 503 | Compartment 2 fan failure | Check compartment 2 fan motor. | | | |
| 504 | Compartment 3 fan failure | Check compartment 3 fan motor. | | | |
| 505 | Compartment 4 fan failure | Check compartment 4 fan motor. | | | |
| 506 | Condenser Fan Failure | Check condenser fan motor. | Reconnect harness. If there seems to be no problem, replace the thermistor. (CAUTION: Always reset the machine by switching the power ON/OFF after corrective action.) | | |
| 550 | Condenser thermistor error | Check condenser thermistor connector for disconnection. | | | |
| 552 | External thermistor error | Check condenser external thermistor connector for disconnection. | | | |
| 555 | Compartment 1 evaporator thermistor error | Check compartment 1 evaporator thermistor connector for disconnection. | | | |
| 560 | Compartment 2 evaporator thermistor error | Check compartment 2 evaporator thermistor connector for disconnection. | | | |
| 565 | Compartment 3 evaporator thermistor error | Check compartment 3 evaporator thermistor connector for disconnection. | | | |
| 559 | Compartment 1 thermistor error | Check compartment 1 thermistor connector for disconnection. | | | |
| 564 | Compartment 2 thermistor error | Check compartment 2 thermistor connector for disconnection. | | | |
| 569 | Compartment 3 thermistor error | Check compartment 3 thermistor connector for disconnection. | | | |
| 574 | Compartment 4 thermistor error | Check compartment 4 thermistor connector for disconnection. | | | |

Error codes and Corrective Actions

| Error codes | Occurring Error | Check point | Action | Recovery verification | Sold-out columns |
|-------------|---|--|--|-----------------------|------------------|
| 557 | Compartment 1 delivery thermistor error | Check compartment 1 delivery thermistor connector for disconnection. | Reconnect harness. If there seems to be no problem, replace the thermistor. (CAUTION: Always reset the machine by switching the power ON/OFF after corrective action.) | Error code cleared. | — |
| 562 | Compartment 2 delivery thermistor error | Check compartment 2 delivery thermistor connector for disconnection. | | | |
| 567 | Compartment 3 delivery thermistor error | Check compartment 3 delivery thermistor connector for disconnection. | | | |
| 572 | Compartment 4 delivery thermistor error | Check compartment 4 delivery thermistor connector for disconnection. | | | |

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