IP-AI

Prepack Scale & Printer

Service Manual

RICE LAKE RETAIL SOLUTIONS | ISHIDA

PN 179840

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Introduction

● Purpose of this Manual

The purpose of this manual is as reference material for the delivery, installation, repair and maintenance of the IP-AI.

● Target Readers

This manual has been written specifically for use by our service personnel.
The use of this manual by any person other than the above is strictly prohibited.

● Related Manuals

Manual Name	Content
IP-AI Instruction Manual	Instruction Manual (included in the package of that product)

● Meanings of Signal Words

Signal Word	Meaning
⚠ DANGER!	Indicates a potentially hazardous situation, which, if not avoided, will result in severe injury or death.
⚠ WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in severe injury or death.
⚠ CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury or in property damage.

Signal Word	Meaning
NOTE:	Indicates information that needs to be noted or emphasized.
INFORMATION	Indicates the reference information.
REFERENCE	Indicates the reference page.

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Chapter 1 Overview

1.1 Specifications

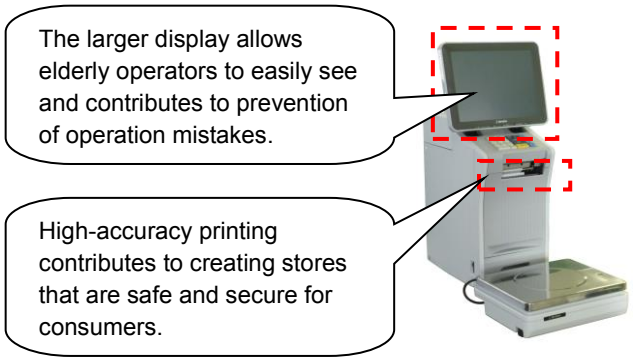
Items	Descriptions
Product name	IP-AI
Product classification	Weight price labeler
Use conditions	Temperature 0°C to 40°C, Humidity 20% to 85% (Non condensing) *The printable environment depends on the label specifications.
Installation status	Installation on an IP stand or a work table
Option	Name file stand Numerical keypad cover I2NET expansion board Wireless LAN (simultaneously supporting WM-AI) Protective sheet for panel SD card theft prevention cover ◊The following items are reused from IP-UNI. Wand scanner (DENSO HC56, GT-10B) Wand scanner stand / holder Inside winding RS232 expansion board *No PP interlocking.
External dimensions	Main unit 302(W) × 370(D) × 673(H) max. Weighing unit 300(W) × 270(D) × 88(H) max.
Weight	Main unit 19kg max. Weighing unit 6kg max.
Power supply	100 V ～ 240 V AC ±10% 50/60Hz *No service outlet
Exterior	Printer body Grain finish (to prevent label from sticking) Bottom part Metal coating
Drip resistance	Simple drip-proof structure (Water should not come into contact with electric components when the vertical drop test is performed.)
Mechanism	Angle adjustment type (Angle: Front side -5° to back side 40°) *Based on the upright position of the display part
Display	12.1-inch TFT color LCD with LED backlight SVGA (800×600)
Used keys	Resistance film type analog touch panel Keystroke (24 keys max.)
Key dimensions	Touch panel: approx. 248mm × 187mm (effective area) Keystroke Single: approx. 18 × 18 Double: approx. 18 × 37
Printing method	Direct thermal method
Thermal head	3-inch (960 dots and 12 dots/mm) thermal head
Printing speed	150 mm / sec. max. (Target value) *The printing speed can be switched depending on the label sensitivity.
Effective printing size	Width 78mm
Label replacing method	Front-loading

Items	Descriptions
Label roll diameter	Paper pipe inner diameter φ76mm Maximum outer diameter φ224mm
Label storage capacity	5000 labels (42mm, 2.5mm gap)
Label size	Label width 20mm to 80mm Label length 20mm to 150mm *Label backing paper width 82mm max.
Issuing method	Switchable between label peeling-off and continuous label printing. Back-feed issue possible.
Label winding direction	Outside winding
Label shape	Circular and oval labels can be handled.
Barcode (Symbol)	1-dimensional: JAN, ITF, CODE128, EAN128 2-dimensional: QR (1:1 feeding, Label type: Ricoh 150LA-1) Vertical bar only (The ladder bar is not supported.)
Recommended label	OSAKA SELING V8NS Ricoh 150LA-1
Printing accuracy	Width direction :±0.5mm Print start position:±0.5mm Print length :Less than 60mm of label height: ± 1mm or less 60mm or above of label height:± 2mm or less
Weighing type	•6kg: 0 to 3kg/1g, 3 to 6kg/2g Multiple interval •15kg: 0 to 6kg/2g, 6 to 15kg/5g Multiple 2g Multiple interval •30lb 0～15lb／0.005lb 15～30lb／0.01 lb
Weighing accuracy	1/3000 (Accuracy class: Class III)
OS specification	Linux
Standard Input/output	Ethernet (10/100base-TX) :1 ch RS-232C :4 ch (1ch is used only for scanner.) SDCard :1 ch
UDF support	UD font mounted MORISAWA UD Shin Go (Style: M, DB, B Character collection: Adobe-Japan1-4)
Power saving mode	The machine shifts to a power saving mode when no operation is performed for a fixed time.
Specification type	Standard specifications (Store offline)
Higher-level communication	Corresponding to SLP-5.
Lifetime	Duration of service: 5 years Lifetime: 233.6km Assumption: 3000 labels/day, 350 days/year, label height 42mm, label gap 2.5mm, 12 hours/day 4,200 hours/year, 21,000 hours for 5 years 3,000 labels × 350 days = 1,050,000 labels/year 1,050,000 labels × 5 years = 5,250,000 labels 5,250,000 labels × (42mm + 2.5mm) = 2,336,000 mm
Consumable parts	Thermal head, print roller
Cleaning	Parts to be cleaned (A cleaning manual and a cleaning kit are provided.) Thermal head Label path

Items	Descriptions
Safety	Ishida product safety standards Signal word standards CE marking · UL · cUL
Standards	Compliant with Ishida product standards and Ishida sanitation standards Japanese Measurement Act NTEP (USA) · OIML(Europe)

1.2 Features

The display has been changed to 12.1 inches and the thermal head to 12 dots/mm based on IP-UNI.



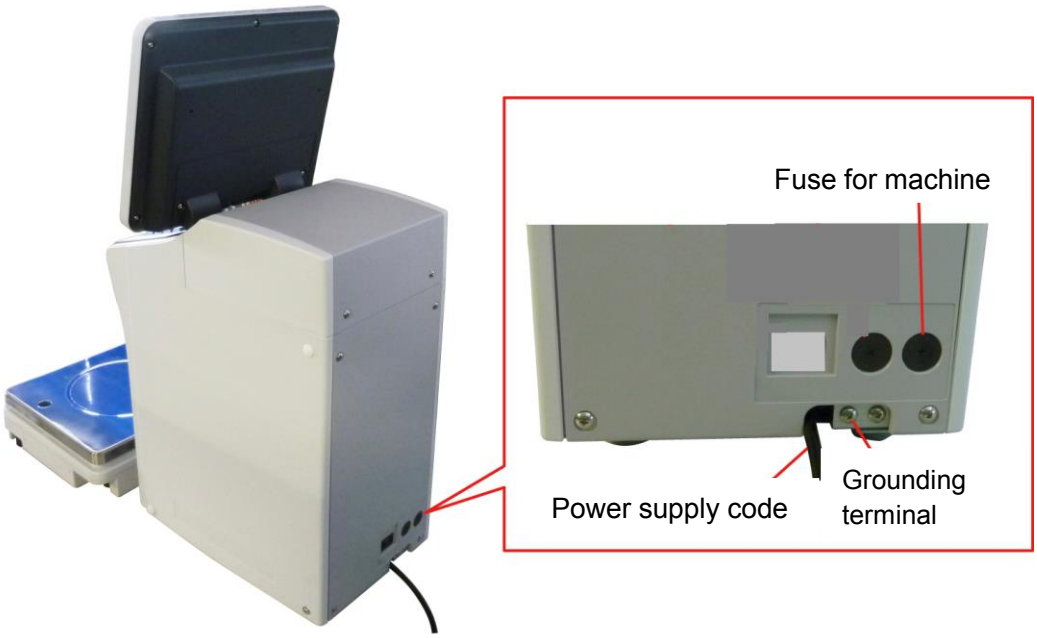
- The machine has a built-in wireless LAN and a built-in M2M board (optional), which make it easier to upgrade the remote maintenance program.

1.3 Name of Each Part

Front view

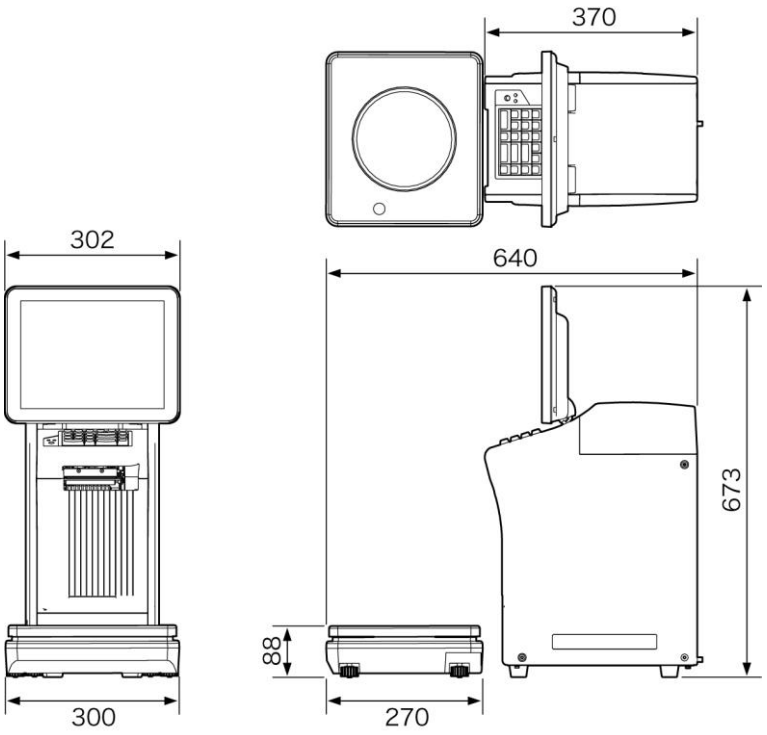
NOTE:
The label cassette is called the label printer in the operation manual. The label cassette of the machine is not replaceable.

Rear view



1.4 Dimensions

The following drawing shows the dimensions. Make sure to secure a carry-in route and space required for setup and maintenance.



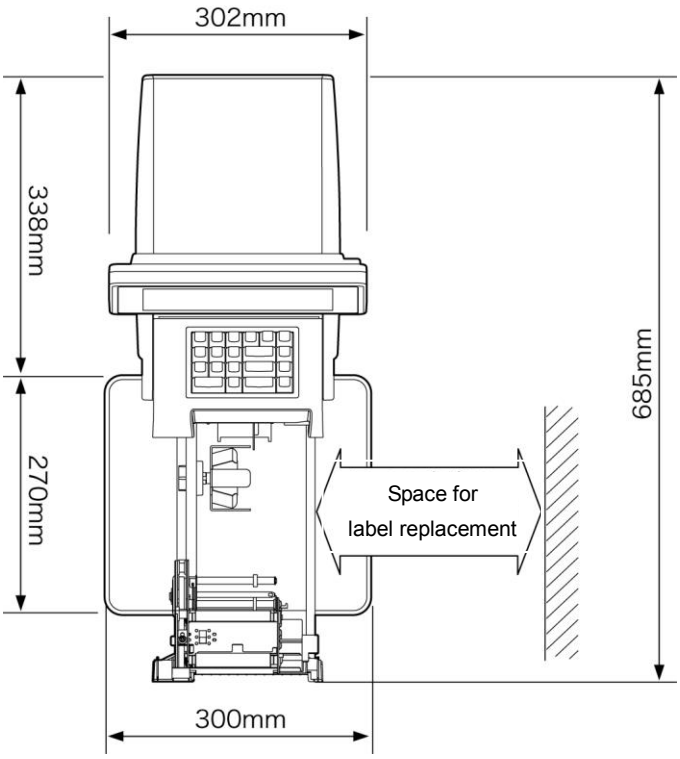
Unit: mm

1.5 Items Required for Installation

No.	Description	Check
1	Balance weight (6kg, equivalent to M1 class)	□
2	USB memory (that stores data of the user)	□
3	Labels	□
4	Phillips head screwdriver	□

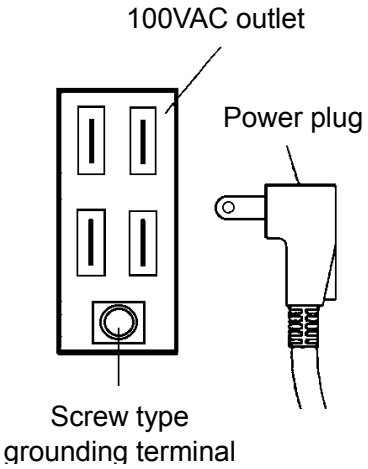
1.6 Installation Space

- Secure sufficient working space on the left and right side of the machine.



1.7 Power Supply

- This machine requires single-phase 100VAC power supply with 4A capacity. The shape and rating of the power plug are illustrated. Prepare an outlet which conforms to the standards.
- Noise or a voltage drop in the power supply will cause a malfunction. Make sure to install a dedicated power supply.
- Perform class D grounding (former class 3 grounding) or higher to prevent electric shocks and malfunctions.
- Noise or a voltage drop in the power supply will cause a malfunction. Make sure to install a dedicated power supply.



CAUTION **Select a breaker for the building which achieves protection coordination. This machine uses a motor to perform switching operation, which causes high-frequency components and leakage current to increase compared to general commercial power supply. As there is harmonic leakage current, always install a breaker corresponding to harmonic current.**

DANGER! **All electric work must be performed by a qualified electrical engineer.**

WARNING **To prevent accidents due to electric shock, always ground the machine.**

1.8 Carry-in and Installation

1.8.1 Installation Procedure Check Sheet

Step	Description	Check
1	Carry in IP-AI. (Total weight 25kg) ・ Confirm the installation place.	□
2	Connect the cable of the weighing unit to the main unit.	□
3	* Make an adjustment so that the bubble is located at the center of the level gauge.	□
4	When connecting the PP-AI, connect the provided grounding terminal to the PP-AI. When connecting other machines, connect them according to the following: Other machine of master-slave system..... LAN Optional printer (PP-AI)..... ..... USB Journal printer..... ..... RS-232C	□
5	・ Connect the power plug to the single-phase 100VAC outlet.	□
6	・ Set the labels. Refer to Chapter 1 "Label setting" in the operation manual.	□

⚠ WARNING **Be sure to pull out the power plug from the outlet when connecting machines.**

1.9 Setup

1.9.1 Requirements for Setup

- USB flash memory (that stores data of the user)
- Balance weight (6kg, equivalent to M1 class)

1.9.2 Setup Procedure

■ Perform a setup operation in the [Setup Mode] and the [Adjust Mode] on the maintenance screen whose authority is controlled with login.

REFERENCE

Refer to Chapter 4 Setup Mode and Chapter 5 Adjust Mode for each operation.

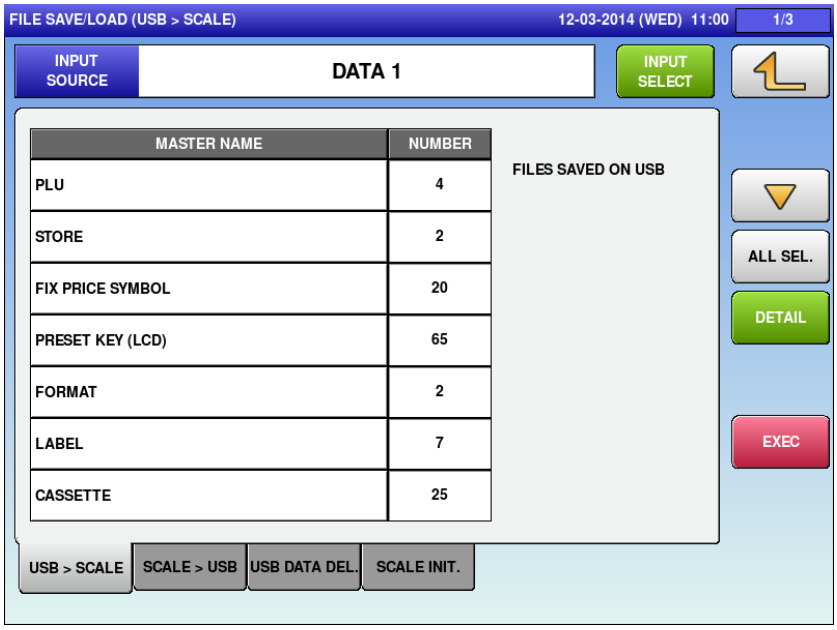
• The following three adjustments can be made in the Setup Mode on the normal screen.

1) Items required for adjusting

- ■ Memory initialization (Adjust Mode)
- ■ Printer (Label adjustment) (Adjust Mode)
- ■ Production processing (Setup Mode)
- ■ Issuing pattern (Setup Mode)
- ■ Formatting (Setup Mode)
- ■ Error processing (Setup Mode)
- ■ Total amount (Setup Mode)
- ■ POS (Setup Mode)

2) Downloading data of the user

・ To use the USB flash memory that stores data of the user, select **[FILE SAVE/LOAD]** in the Setup Mode for maintenance and download to this machine on the **[USB > SCALE]** tab page.



File input/output screen

To logout (return to the first screen), do not enter any value or enter "0", and press the [Login] button.

Recommended product (USB memory stick)
Product No.: 0001495390** Product Name: Hagiwara, USB, 1G **NOTE:** Please note that the recommended USB memory is subject to change without notice.

3) Items required for checking (Setup Mode)

- Password
- Item data auto update
- Key lock
- Item initial value settings
- Individual identification
- File input/output
- Function key
- Total addition
- Pack date/Expiry date
- Function key
- Machine/department number (Set this according to the specifications.)

1.9.3 Operation Checks

■ Weighing check

Place a balance weight (6 kg, equivalent to M1 class) on the weighing platter and confirm that the displayed weight is within 6,000 g ± 1 scale unit (2 g).

■ Four-corner check

Place a weight (approximately 3kg but not heavier) on the center and four corners of the weighing platter, and conform that the difference between the center and four corners is within ±1 scale unit (1 kg).

■ Label printing check

Check the print on labels that are used by the users.
(Confirm that the following data are correct: date, weight, calculation processing of weight and unit price and price display.)

1.9.4 Operation Explanation

Explain the operation method and precautions to the user based on the operation manual. Confirm that the user fully understands.

1.9.5 Issuing a Warranty

Fill in necessary items in the warranty and give it to the user.

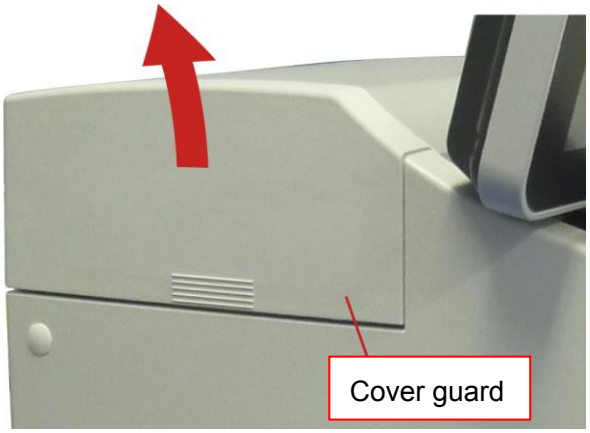
Chapter 2 Mechanical Adjustment

2.1 Removing Case Covers

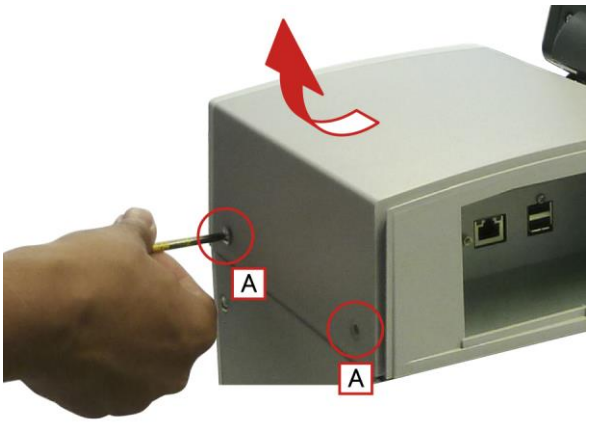
NOTE

Remove the case covers in the following order: case body (top), case bodies (right & left), and case bodies (rear & scale cable).

2.1.1 Case Body (Top)

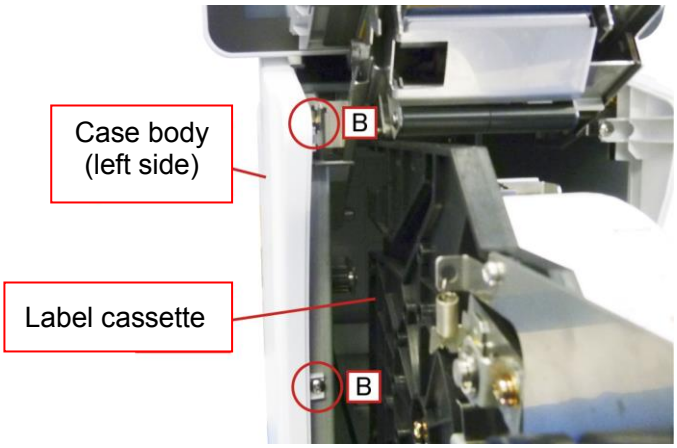


(1) Remove the cover guard by sliding it in the direction of the arrow.

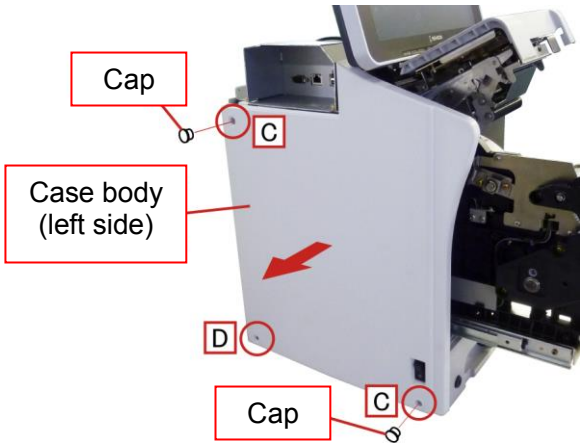


(2) Remove the two screws A, and remove the case body (top) in the direction of the arrow.

2.1.2 Case Body (Left Side)

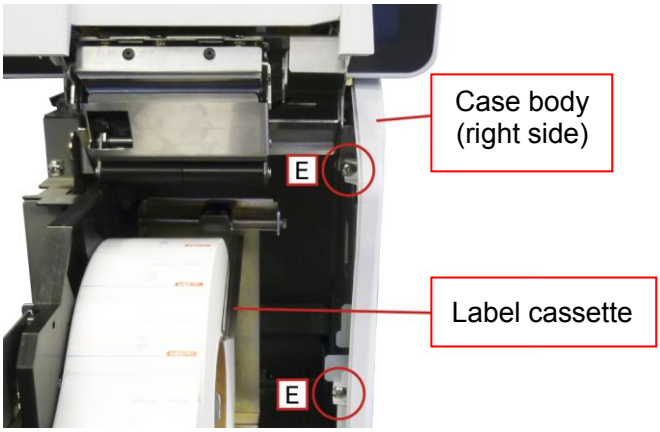


(3) Pull out the label cassette and loosen the two screws B.

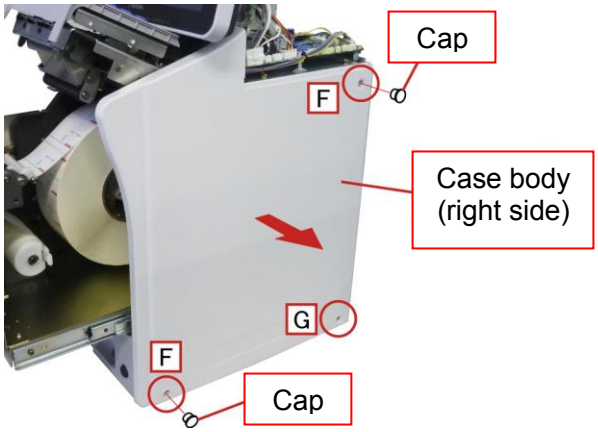


(4) Remove the two caps, the two screws C, and the stepped screw D, and then remove the case body (left side).

2.1.3 Case Body (Right Side)

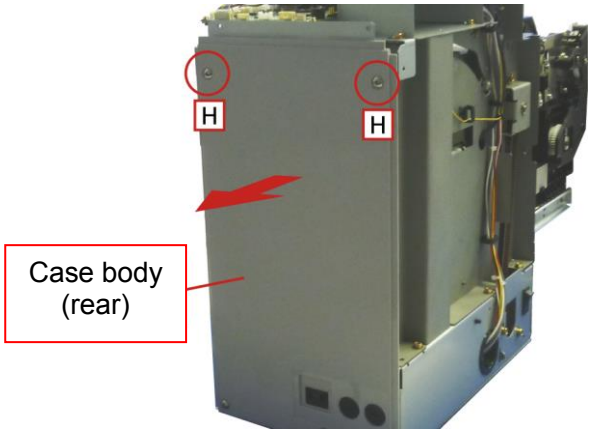


(5) After pulling out the label cassette, loosen the two screws E.



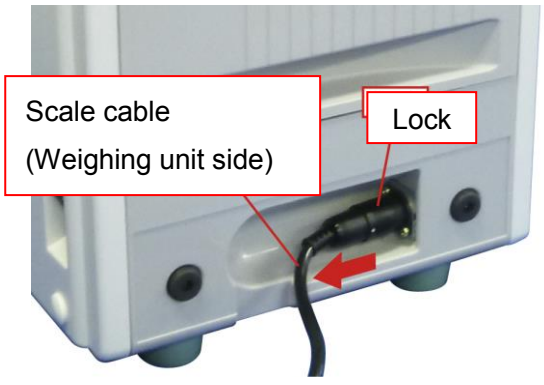
(6) Remove two caps, two screws F and the stepped screw G, and then remove the case body (right side).

2.1.4 Case Body (Rear)

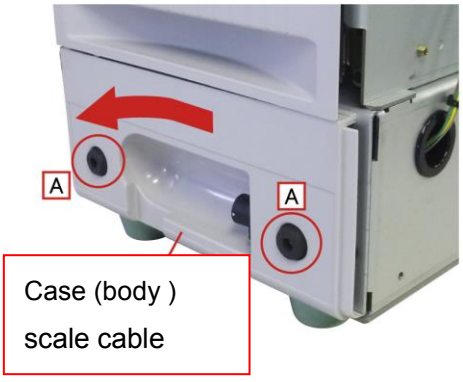


(7) Remove the two screws H, and then remove the case body (rear).

2.1.5 Case Body (Scale Cable)



(1) Pull out the scale cable (weighing unit side) in the direction of the arrow while holding the lock.

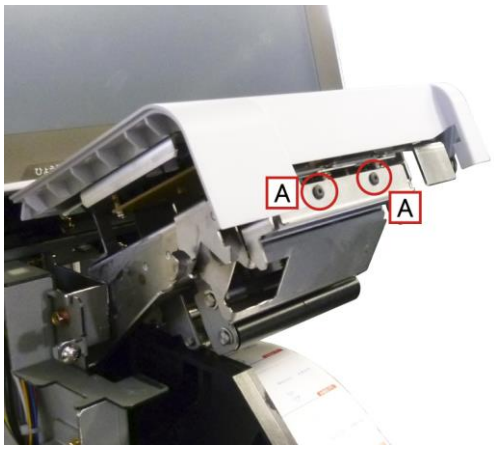


(2) Remove two screws A (with rubber feet), and remove the scale cable for the case (body) in the direction of the arrow.

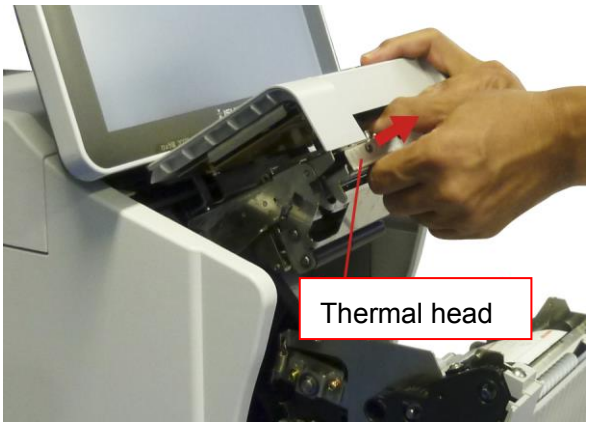
2.2 Replacing Prats

2.2.1 Replacing the Thermal Head

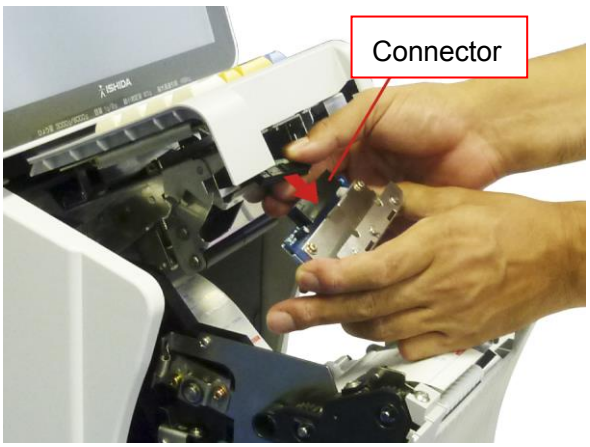
(1) Pull out the label cassette.



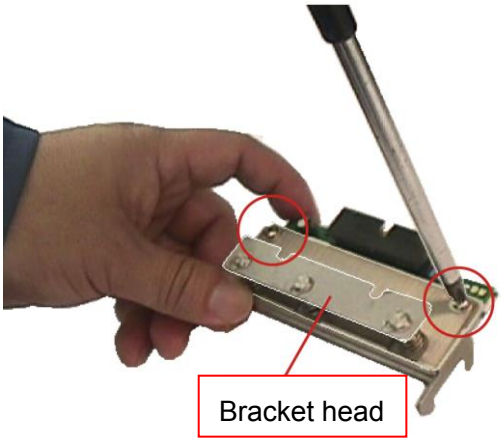
(2) Remove the two hexagonal head screws A.



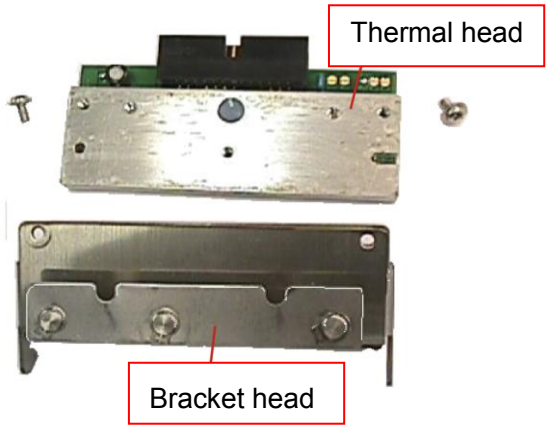
(3) Pull out the thermal head forward.



(4) Pull out the connector for the thermal head.



(5) Remove the two screws and remove the bracket head.



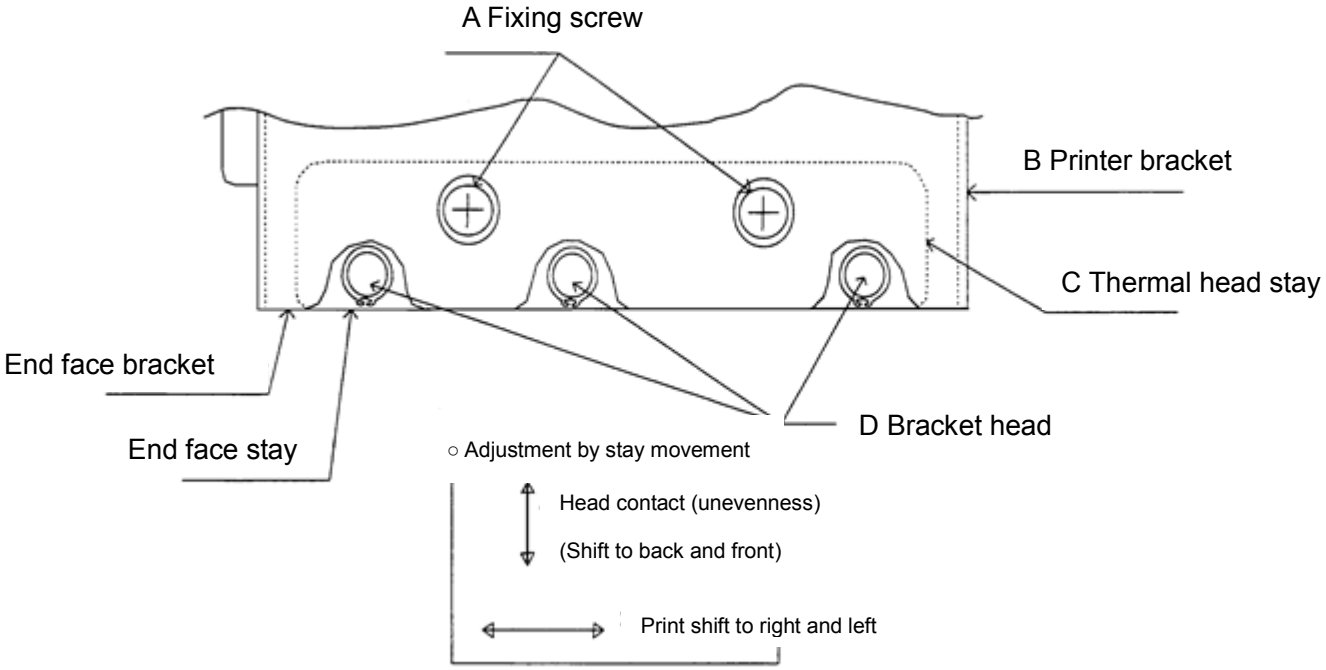
(6) Replace the thermal head, and mount the bracket head.

*Mount the thermal head and the bracket head in parallel.

(7) Mount the thermal head in the reverse order of the removal procedure.
Always check the print after mounting.

(Refer to pages 2-4 to 2-5.)

2.2.2 Adjusting the Thermal Head Position



If the print density is uneven or the print is light when test labels are issued, the thermal head may not be positioned properly. In this case, adjust the position of the thermal head.

(1) Preparation

Confirm that the label cassette is in a proper state.

a. Adjust the gap between the label holder guide lever and the label width (paper pipe) from 0.2 mm to 0.5 mm.
b. Adjust the gap between the label guide and the backing paper from 0.1 mm to 0.4 mm.

(2) Load the label cassette into the main unit properly.

(3) Turn ON the power supply and start up the test mode. Then, select the print adjustment, set the head resistance, and set the print density to 1. (Refer to the chapter that describes print adjustment in the test mode).

(4) Make label-related settings. (same as above)

(5) Press the [FEED] key several times and adjust the label position.

(6) Issue test labels. (Press [Checker] for label printing.) Press the [PRINT] key. Check the label from around the third printing to confirm that no print is shifted to the right or left and that the print density is even between the right and left sides.

(7) Make the following adjustments if there is any print that is shifted to the right or left or the print density is uneven between the right and left sides.

a. How to adjust the standard position
By referring to the figure above, loosen the fixing screws A, align the front end face of the printer bracket B with the front end face of the thermal head stay C, and temporarily tighten the fixing screws A. Then, adjust the position while issuing test labels.

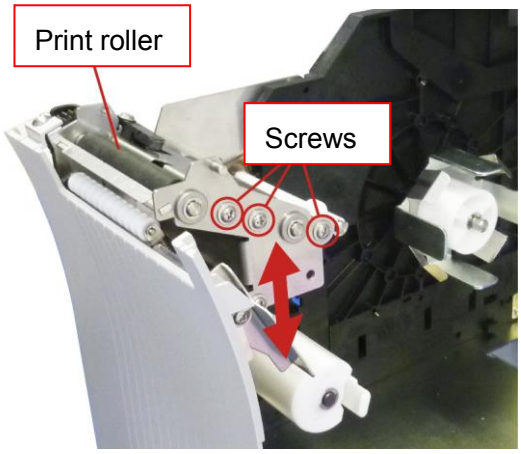
b. When the entire print is light
The center line of the heat generation belt of the thermal head is not aligned with the center line of the print roller. By referring to the figure above, shift the fixing screws A to the back or front while checking the printing conditions and find the position that allows the darkest print density. Then, tighten the fixing screws A.

c. When the print density differs between the right and left sides
The thermal head on the side that has the lighter print is shifted to the back or front from the center line of the print roller.
By referring to the figure, loosen the fixing screws A, and shift and adjust the fixing screws so that the left and right sides of the thermal head are parallel to the center line of the print roller when viewed from above (this means the center lines are aligned.)

d. When the print position is shifted to the right or left
Loosen the fixing screws A, shift the position of the thermal head to the opposite direction from the shifted one (left or right) while maintaining the parallelism described above, and secure the thermal head.

(8) Return to the original print density.

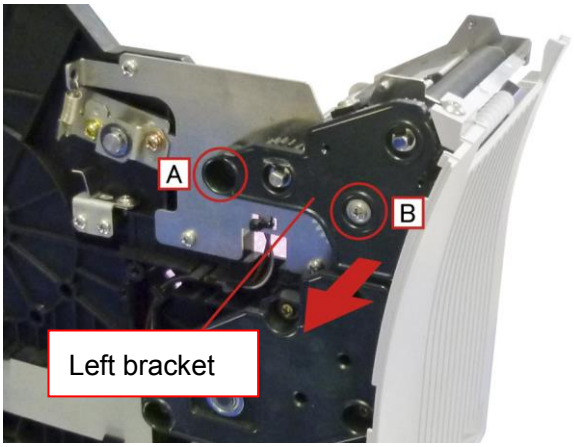
REFERENCE



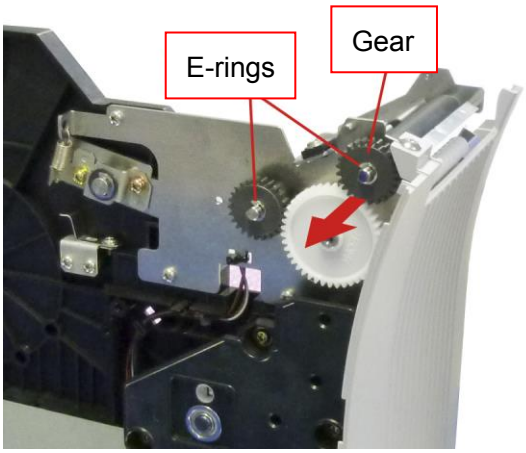
If the print density is still uneven after these adjustments have been made, loosen the three screws on the print roller side and adjust the tilt of the print roller.

2.2.3 Replacing the Print Roller

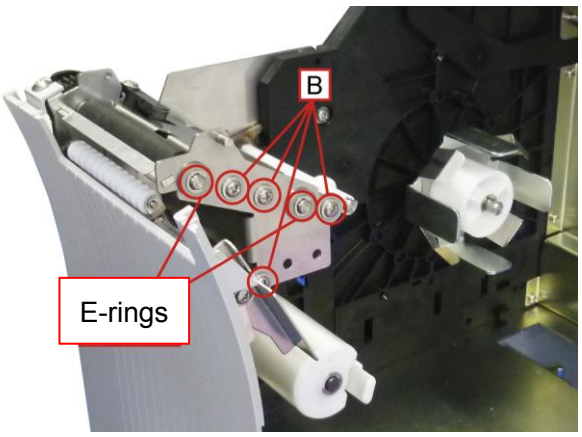
(1) Pull out the label cassette.



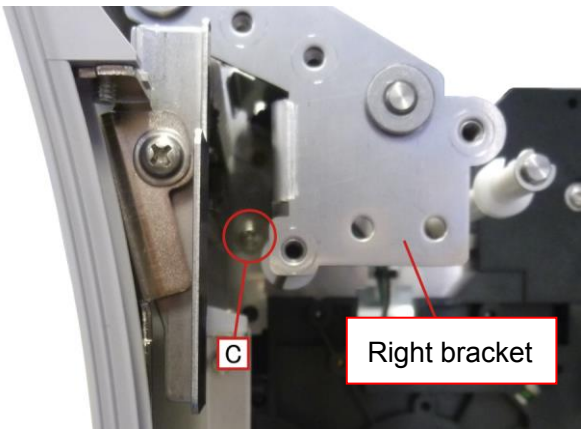
(2) Remove the stepped screw A and the screw B and remove the left bracket.



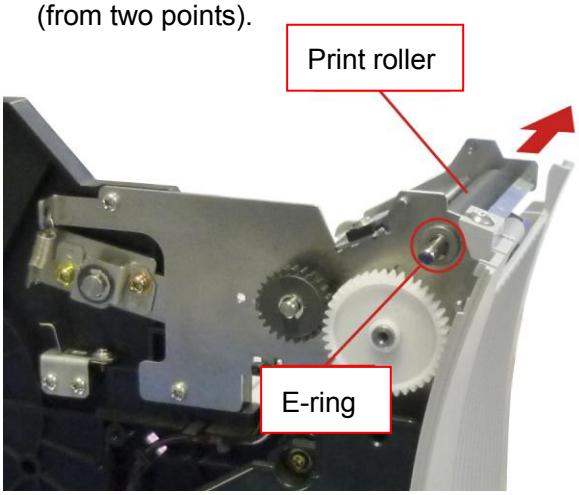
(3) Remove the E-rings (from two points) and remove the gear.



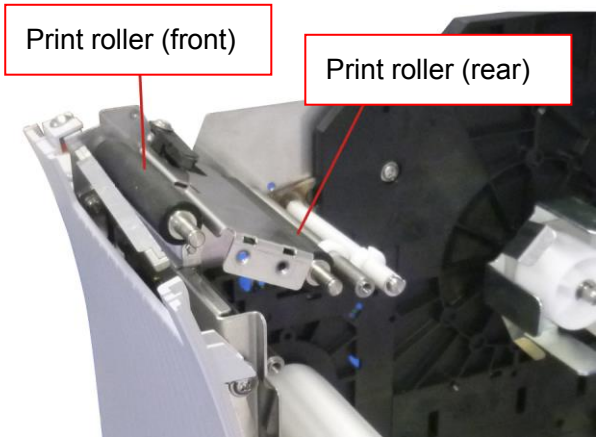
(4) Remove the four screws B and the E-rings (from two points).



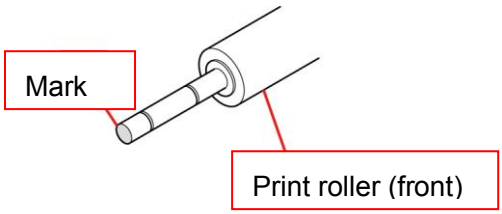
(5) Remove the screw C from the back and remove the right bracket.

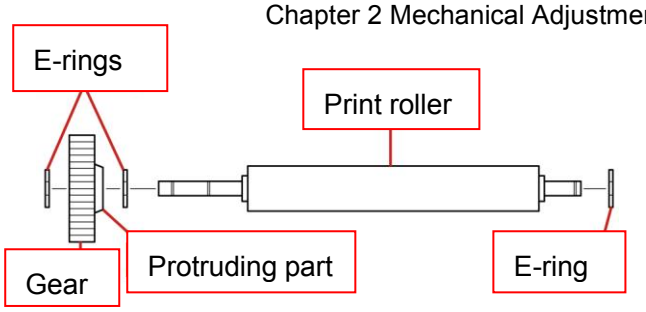


(6) Remove the E-ring from the left side and remove the print roller.



(7) Remove the print roller (rear) by using the same procedure.





NOTE

The diameters of the front and rear sides of the print roller are different. Make sure to replace it correctly.

*There is a mark on the print roller (front)

(8) After replacing the print roller, mount it in the reverse order of the removal procedure.

NOTE

Mount the gear so that the protruding part faces inward.

NOTE

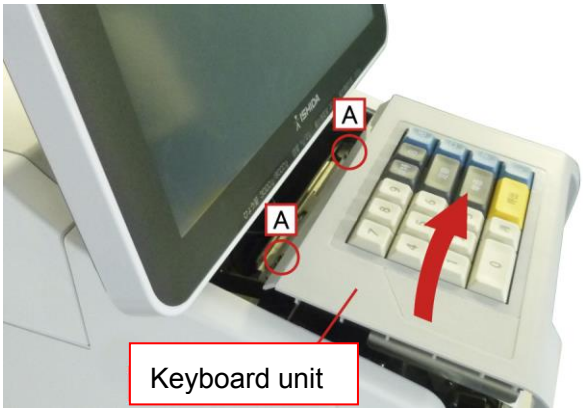
After mounting the print roller, always confirm that the print density is even in the same way as the thermal head.
(Refer to pages 2-4 and 2-5.)

NOTE

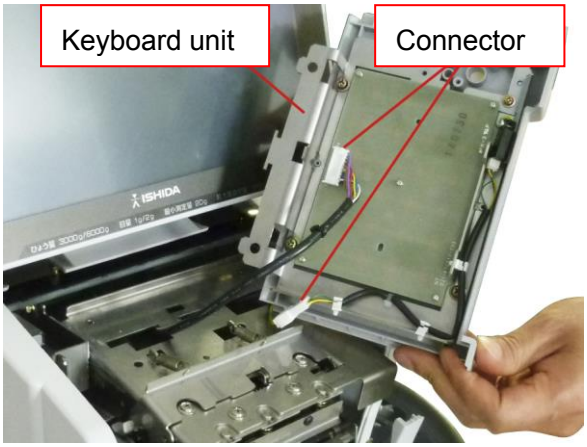
E-rings cannot be reused.
Replace with new ones.

2.2.4 Replacing the Peeling Sensor

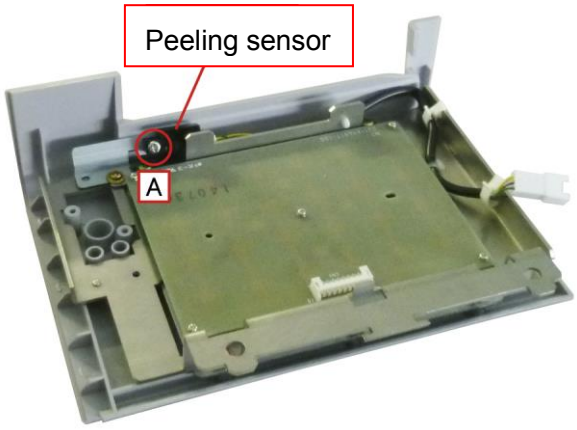
(1) Pull out the label cassette approximately 2 cm to 3 cm.



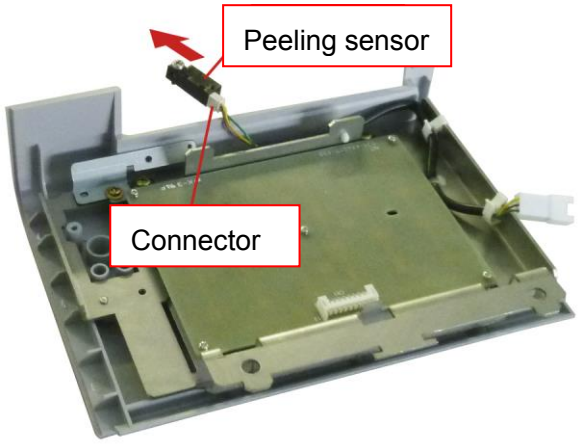
(2) Remove the two screws A and open the keyboard unit.



(3) Remove the two connectors and remove the keyboard unit.



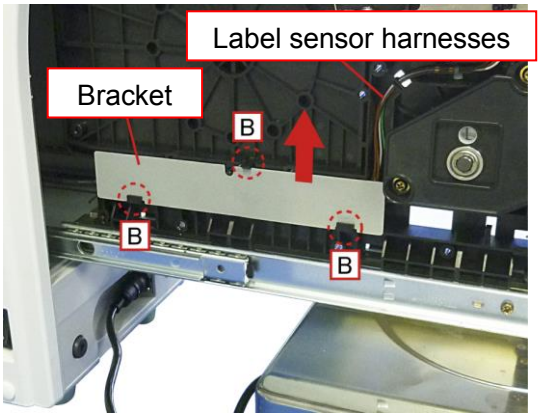
(4) Remove the screw A that holds the peeling sensor.

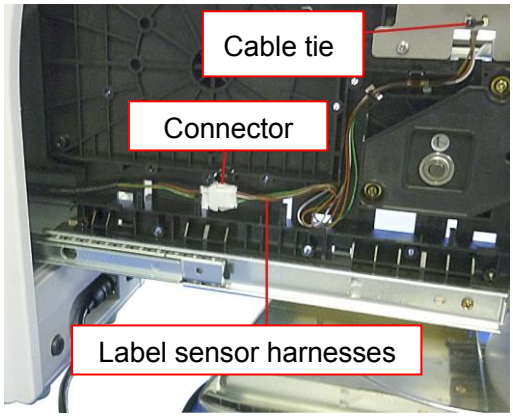


(5) Remove the connector and replace the peeling sensor.
After the replacement, mount it in the reverse order of the removal procedure.

2.2.5 Replacing the Label Sensor

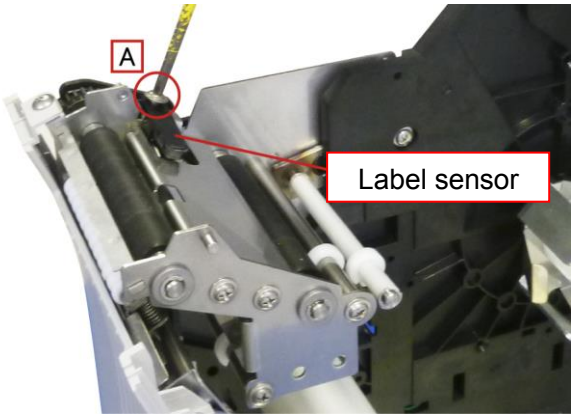
(1) Pull out the label cassette.

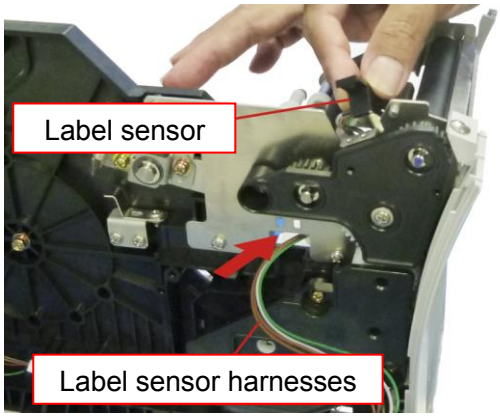




(2) Remove the claws B (from three points) and remove the bracket that holds the label sensor harnesses.

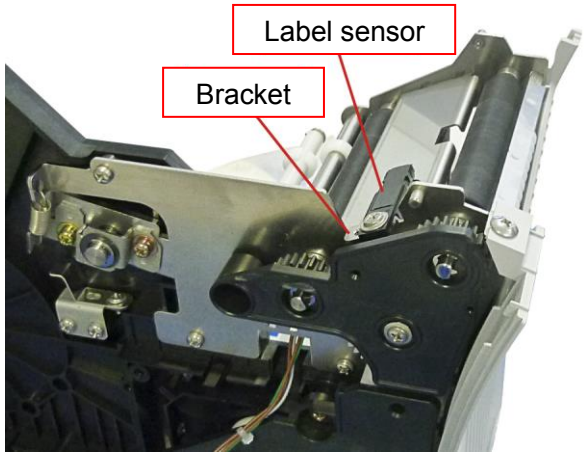
(3) Remove the connector for the label sensor harnesses and cut the cable tie.





(4) Remove the screw A that holds the label sensor.

(5) Pull out the label sensor harnesses and replace the label sensor.



(6) After replacing the label sensor, mount it in the reverse order of the removal procedure.

NOTE Mount the label sensor on the front side of the two bracket holes.

NOTE Replace the cable tie that was cut in step 3 with a new one.

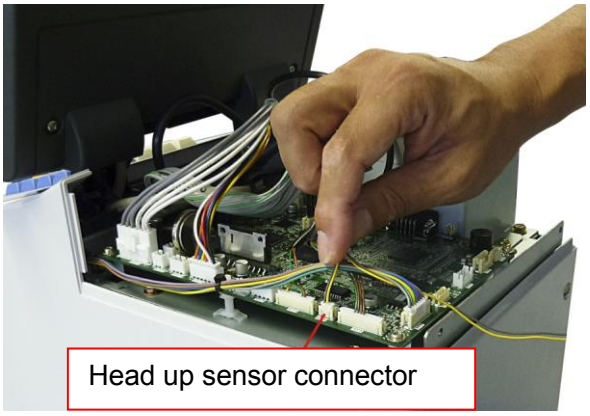
NOTE When the harnesses are held with the bracket described in step 2, mount the bracket so that the harnesses do not get caught.

NOTE When wiring the label sensor harnesses, make sure that they do not interfere with the shaft of the platen roller.

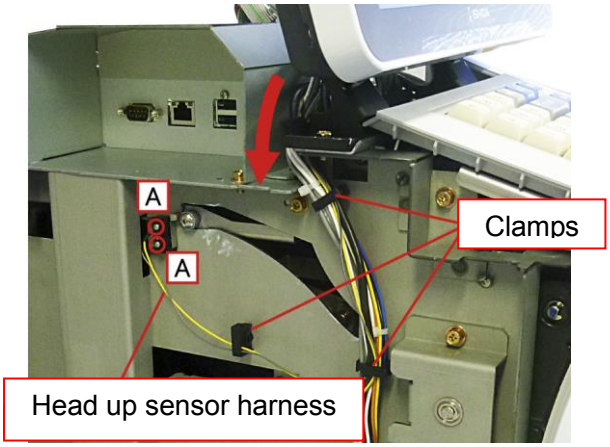
NOTE Confirm that the label sensor operates normally after replacement.

2.2.6 Replacing the Head Up Sensor

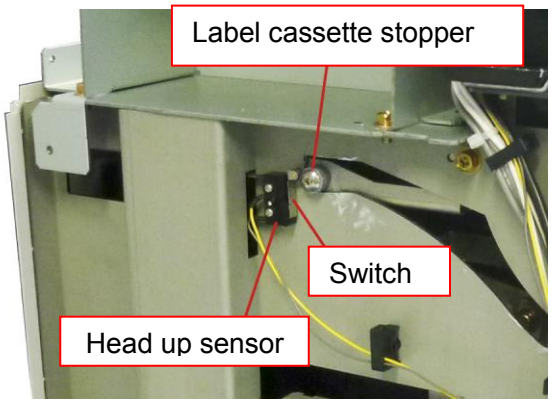
(1) Remove the case body (top) and case body (left side). (Refer to page 2-1.)



(2) Remove the head up sensor connector for the main board.



(3) Remove the two screws A and three clamps and replace the head up sensor.



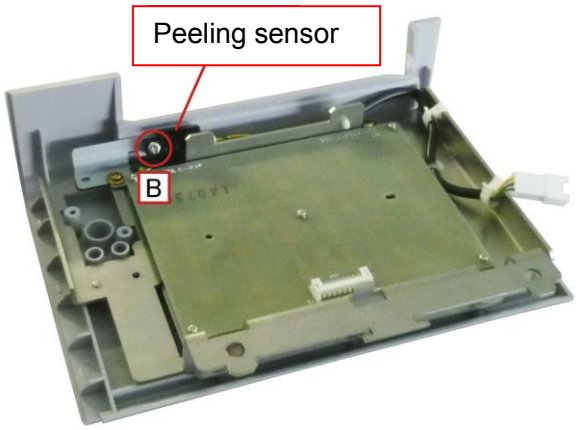
NOTE

Mount the label sensor stopper so that it lightly comes into contact with the switch for the head up sensor. Make sure the label cassette stopper does not come into contact with the head up sensor.

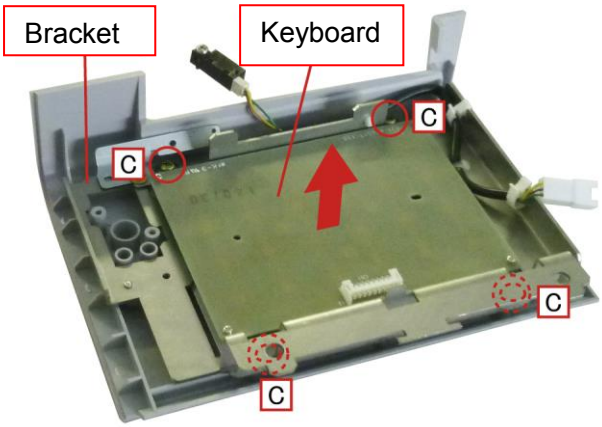
(4) After replacing the head up sensor, mount it in the reverse order of the removal procedure.

2.2.7 Replacing the Keyboard

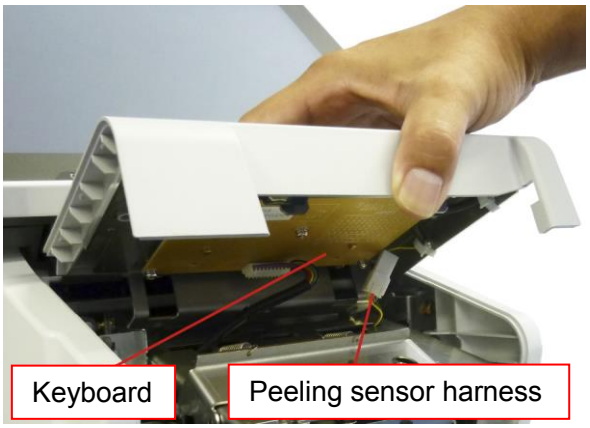
(1) Remove the keyboard unit by following the procedure to replace the peeling sensor. (Refer to page 2-8).



(2) Remove the screw B and remove the peeling sensor.



(3) Remove the four screws C, remove the keyboard together with the bracket and replace the keyboard.

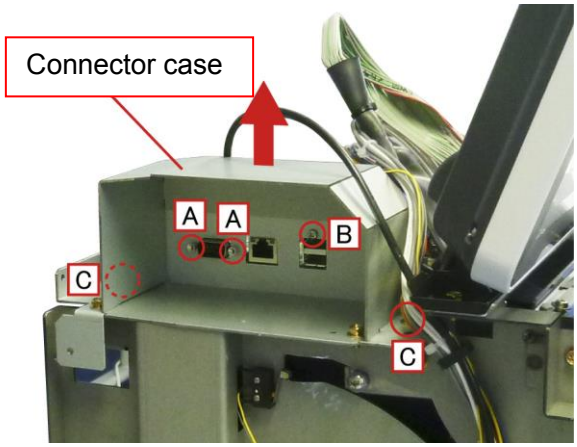


(4) After replacing the keyboard, mount it in the reverse order of the removal procedure.

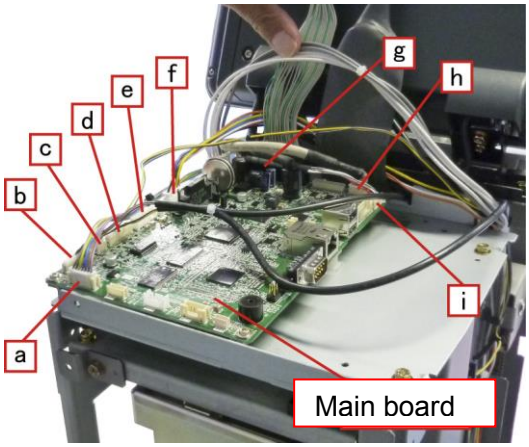
*If the peeling sensor harness gets caught, the keyboard cannot be mounted properly. Correctly place the harness next to the keyboard.

2.2.8 Replacing the Main Board

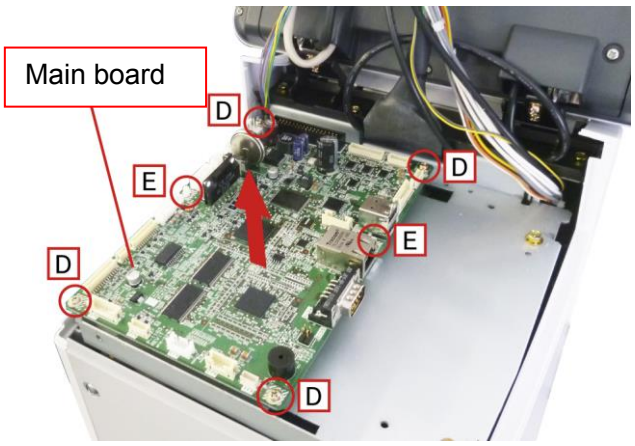
(1) Remove the case body (top). (Refer to page 2-1.)



(2) Remove the two hexagonal head screws A, one screw B, two screws C, and then remove the connector case.



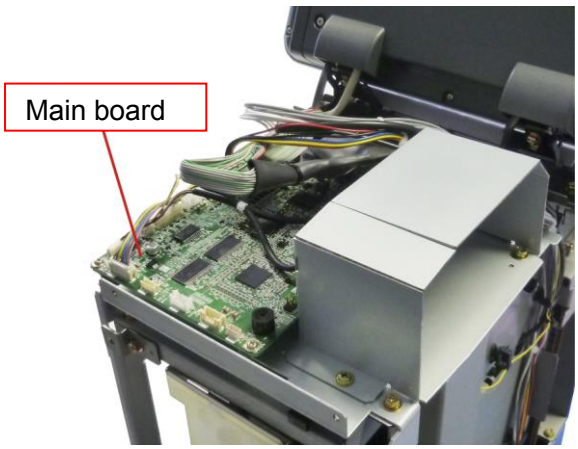
(3) Remove the connectors a to i from the nine points.



(4) Remove the four screws D and the two board holders E, remove the main board in the direction of the arrow and then replace it.

NOTE Bundle the harnesses so that they do not get caught.

NOTE The main board is in the initial status. Therefore, it must be set up.

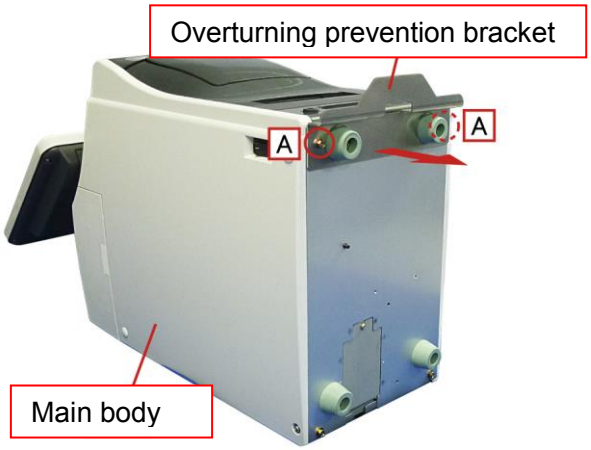


(5) After replacing the main board, mount it in the reverse order of the removal procedure. Bundle the harnesses as shown in the figure.

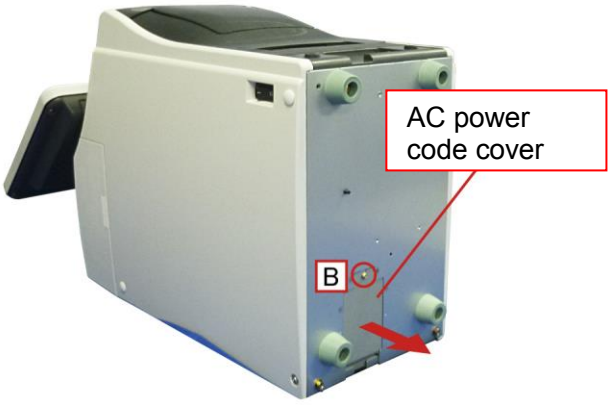
(6) Turn on the battery switch.

(7) After program loading, follow the setup procedure specified in Chapter 1-9. (Refer to pages 1-11 to 1-13.)

2.2.9 Replacing the Power Supply Board

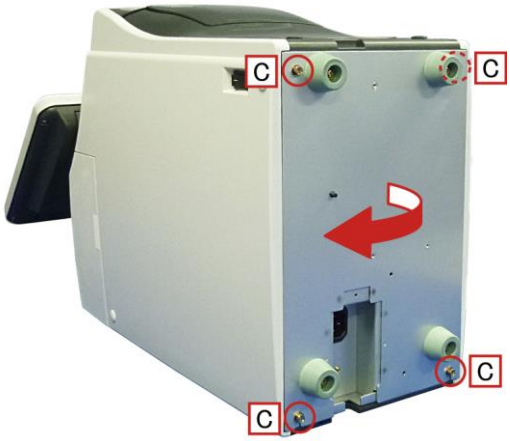


(1) Overturn the main unit as shown in the figure.

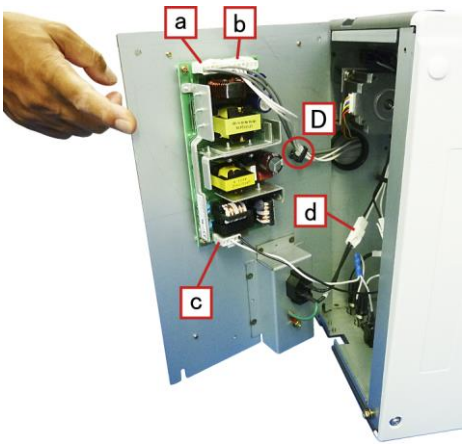


(2) Remove the screw B and then remove the AC power code cover.

(3) Pull out the AC power cord and remove.

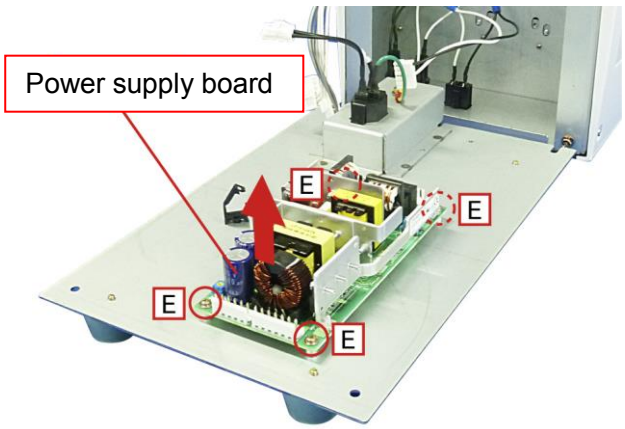


(4) Remove the four screws C and open the bottom plate in the direction of the arrow.



(5) Remove the connectors a to d.

(6) Open the harness holder D and then open the bottom plate.



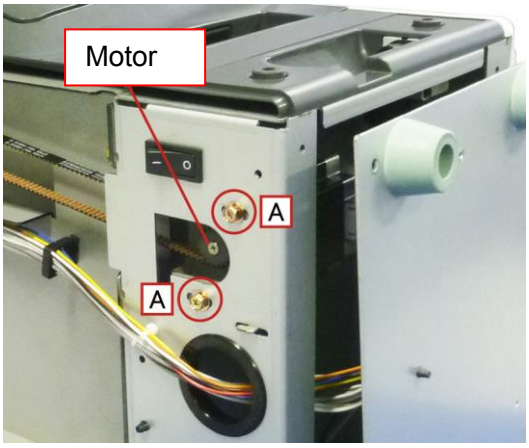
(7) Remove the four screws E and replace the power supply board.

(8) After the replacement, mount it in the reverse order of the removal procedure.

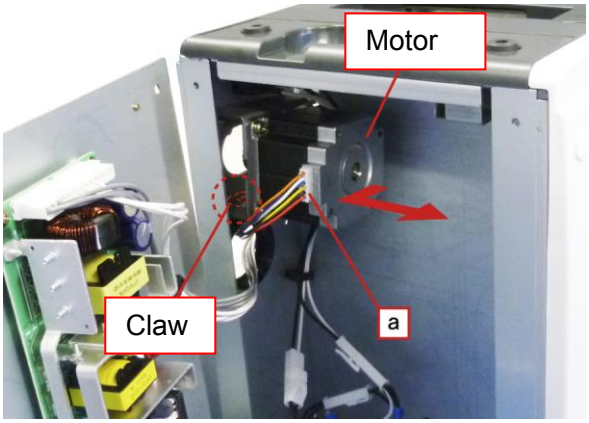
2.2.10 Replacing the Motor

(1) Remove the case body (top) and case body (left).

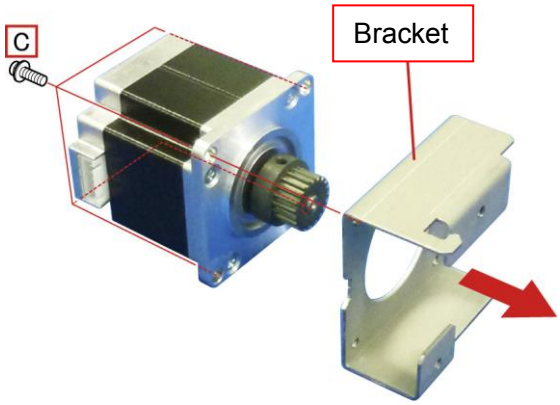
(2) Overturn the main unit by referring to the procedure to replace the power supply board, and open the bottom plate. (Refer to page 2-13.)



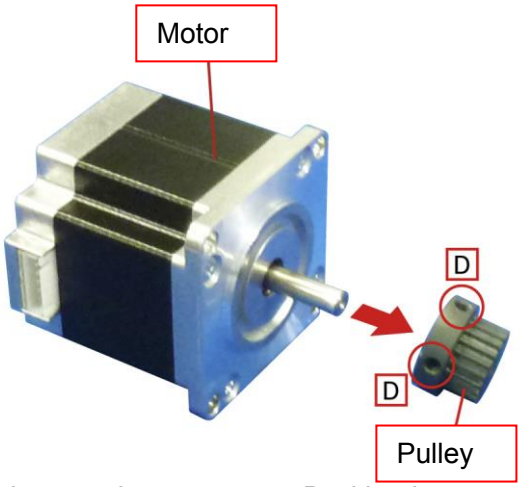
(3) Remove the two screws A.



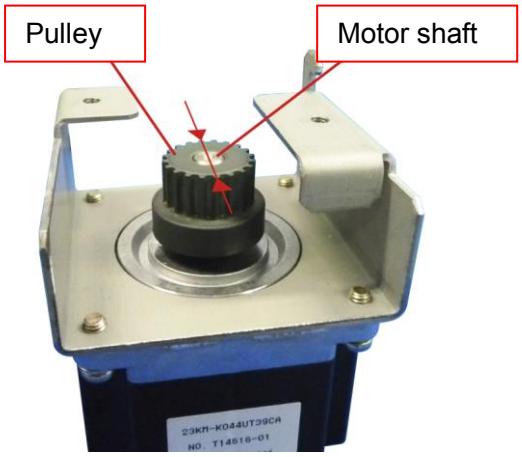
(4) Remove the connector a and then remove the motor in the direction of the arrow while removing the claw.



(5) Remove the four screws C and then remove the bracket.



(6) Loosen the two screws D with a hexagon wrench, and remove the pulley. Replace the motor in this state.

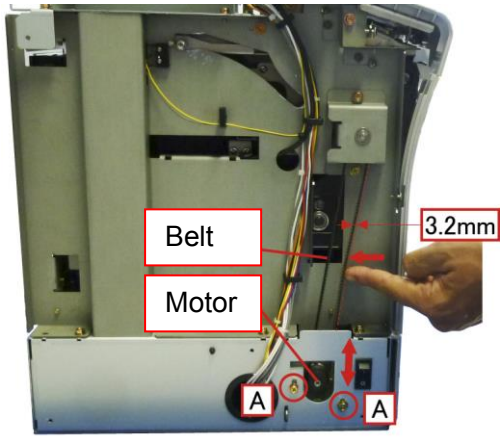


(7) Mount the pulley so that the edge of the motor shaft is aligned with the top surface of the pulley.

(8) After the replacement, mount the motor in the reverse order of the removal procedure.

NOTE After replacing the motor, always adjust the belt tension.
(Refer to page 2-15.)

2.2.11 Adjusting the Belt Tension



(1) Remove the case body (left side).
(Refer to page 2-1.)

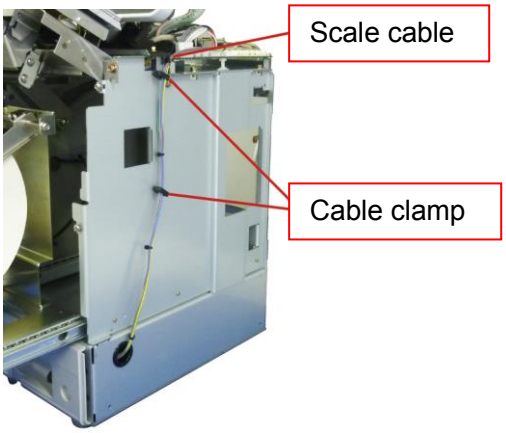
(2) Make an adjustment so that the belt is deflected by 3.2 mm when a position near the center of the belt is pressed with a finger with a force of 200g (1.96N).

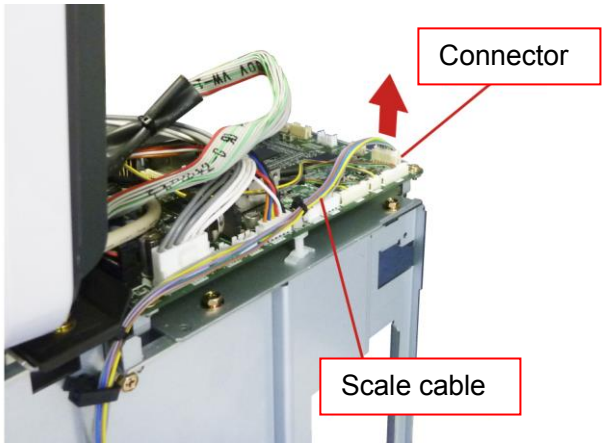
(3) Loosen the two screws A for the motor side and adjust the position of the motor.

(4) After the adjustment, tighten the two screws A and return the case body (left side) to the original position.

2.2.12 Replacing the Scale Cable

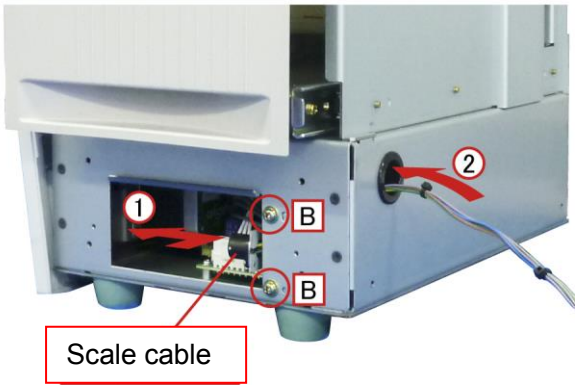
(1) Remove all the case bodies except for the case body (rear). (Refer to pages 2-1 and 2-2.)

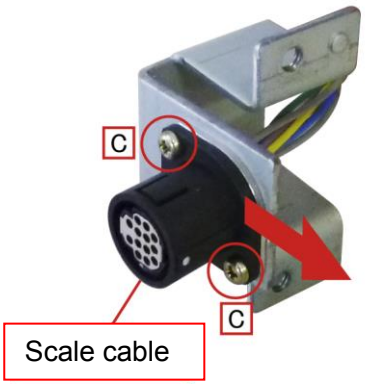




(2) Remove the scale cable from the two cable clamps.

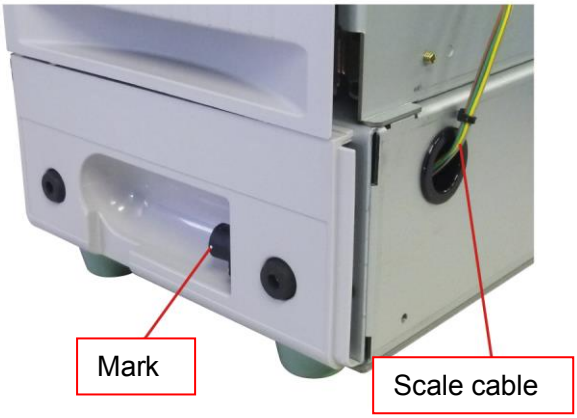
(3) Remove the connector for the scale cable.





(4) Remove the two screws B, and pull out the scale cable in the direction of the arrows 1 and 2.

(5) Remove the two screws C, remove the scale cable from the bracket and replace it.



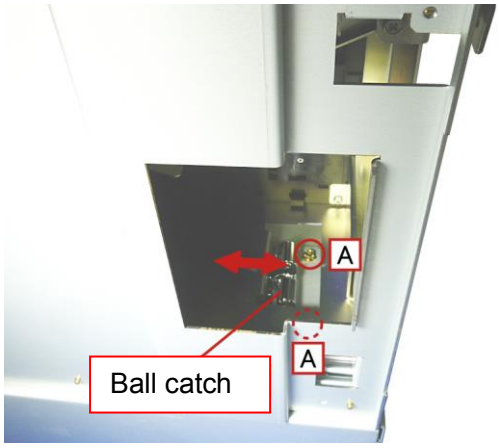
NOTE Mount the scale cable so that the mark is placed on the front side.

NOTE Wire the scale cable so that it does not get caught.

(6) After replacing the scale cable, mount it in the reverse order of the removal procedure.

2.2.13 Adjusting the Ball Catch Position

Adjust the catch position for the cassette lock. If the label cassette is pushed forward, the position needs to be adjusted.



(1) Remove the case body (top), case body (right side) and case body (rear). (Refer to pages 2-1 and 2-2.)

(2) Pull out the label cassette.

(3) Loosen the two screws A, move the ball catch back and front, and adjust the position.

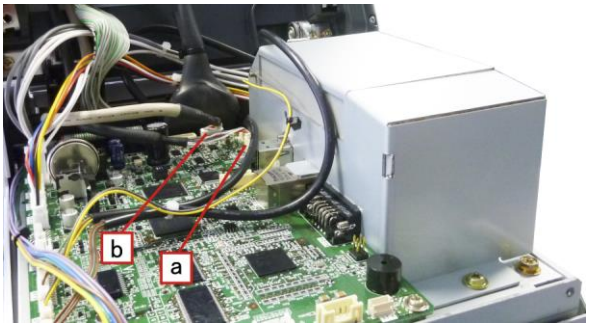
(4) Lightly push the label cassette back and tighten the two screws A.

(5) After the adjustment, return the case bodies (rear, right side and top) to the original positions.

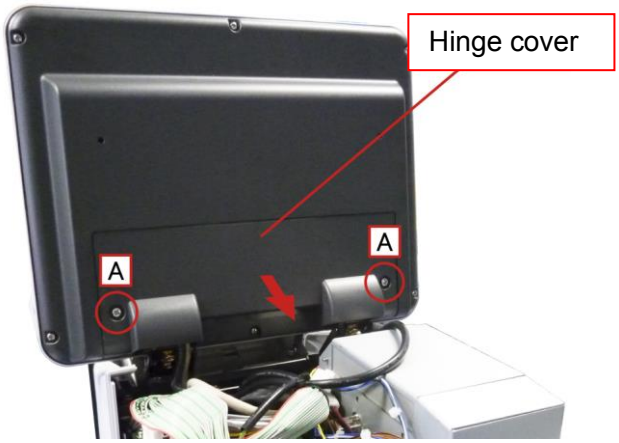
2.3 Replacing the Display Unit

2.3.1 Replacing the Display Board

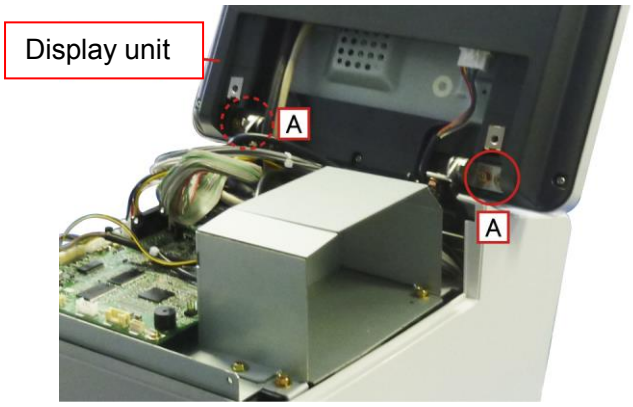
(1) Remove the case body (top). (Refer to page 2-1)



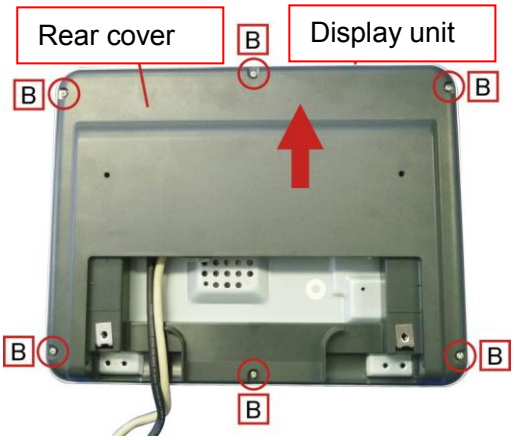
(2) Remove the connectors a and b.



(3) Remove the two screws A and remove the hinge cover.

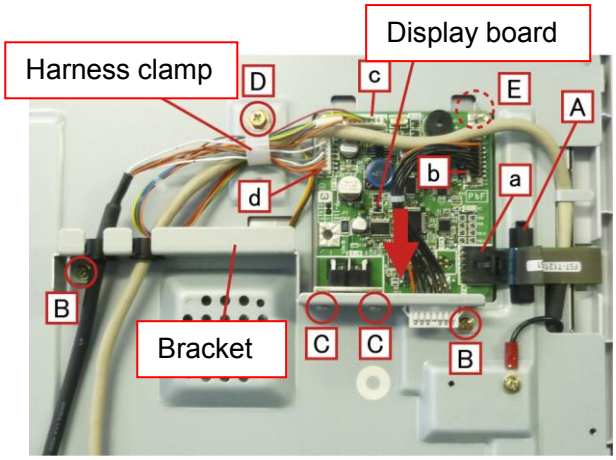


(4) Remove the four screws and remove the display unit.



(5) Remove the six screws B and remove the rear cover.

NOTE When removing the display unit, hold it so that it will not overturn.



(6) Open the harness holder A and remove the connectors a to d.

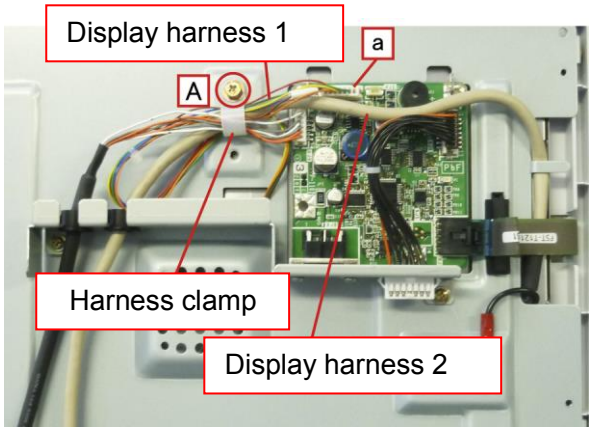
(7) Remove the two screws B, two screws C and one screw D, and remove the bracket together with the harness clamp.

(8) Remove the display board in the direction of the arrow while avoiding contact with the claws E.

(9) After replacing the display board, mount it in the reverse order of the removal procedure.

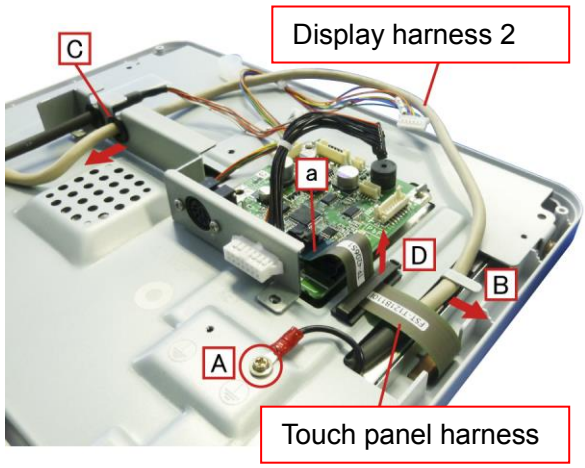
2.3.2 Replacing the Display

(1) Remove the rear cover by following steps 1 to 5 of the procedure to replace the display board. (Refer to page 2-21.)



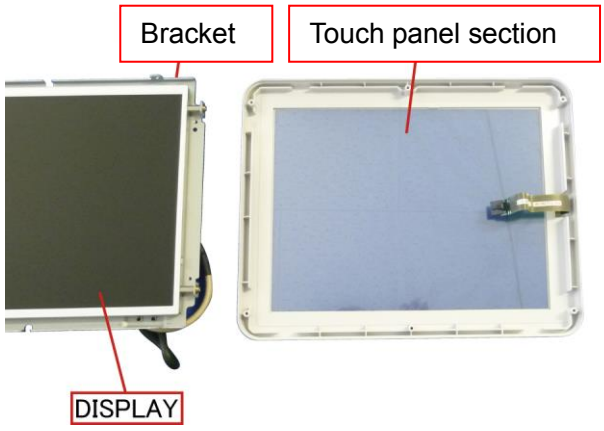
(2) Remove the connector a.

(3) Remove the screw A and remove the display harnesses 1 and 2 from the harness clamp.

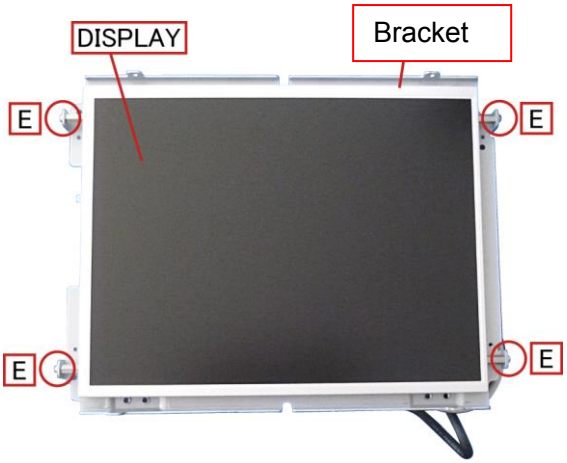


(4) Remove the screw A and claw B, pull out the harness clamp C, and then remove the display harness 2.

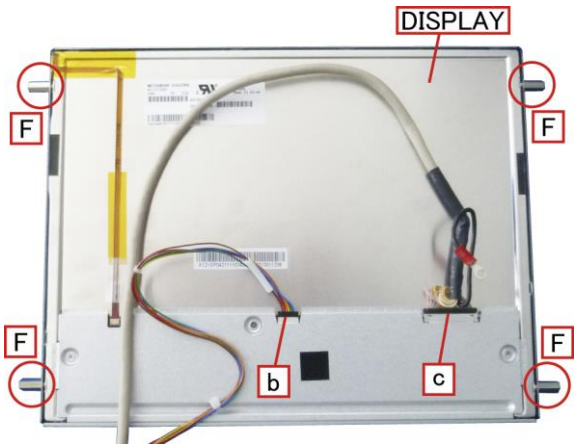
(5) Open the harness holder D, remove the connector a, and remove the touch panel harness.



(6) Remove the display together with the bracket from the touch panel section.



(7) Remove the four screws E and remove the display from the bracket.

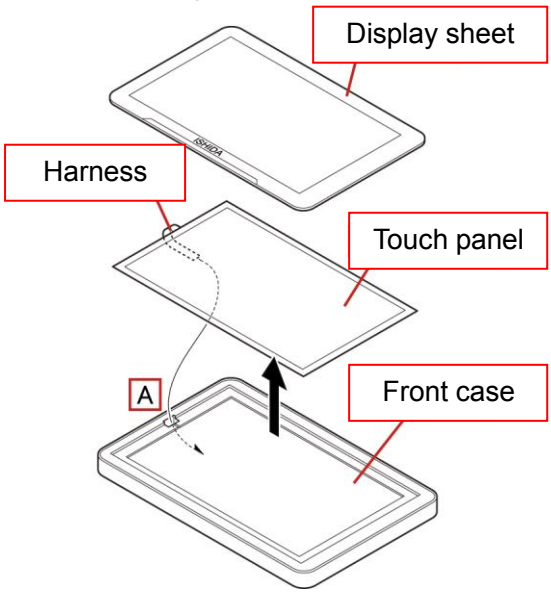


(8) Lay the display face down, remove the four hexagonal screws F, and remove the connectors b and c.

(9) After replacing the display, mount it in the reverse order of the removal procedure.

2.3.3 Replacing the Touch Panel

(1) Remove the touch panel section by following steps 1 to 6 of the procedure to replace the display. (Refer to page 2-22.)



(2) Remove the display sheet from the front case.

(3) Remove the touch panel from the front case while pulling out the harness from the hole A.

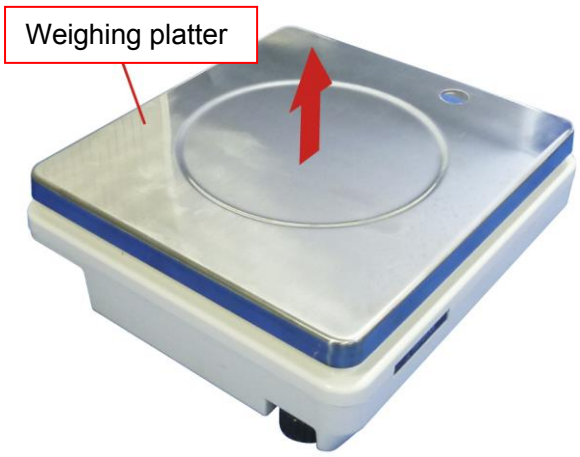
NOTE

The display sheet is attached to the touch panel with an adhesive tape. This tape cannot be reused once it has been peeled off. Always replace it with a new one.

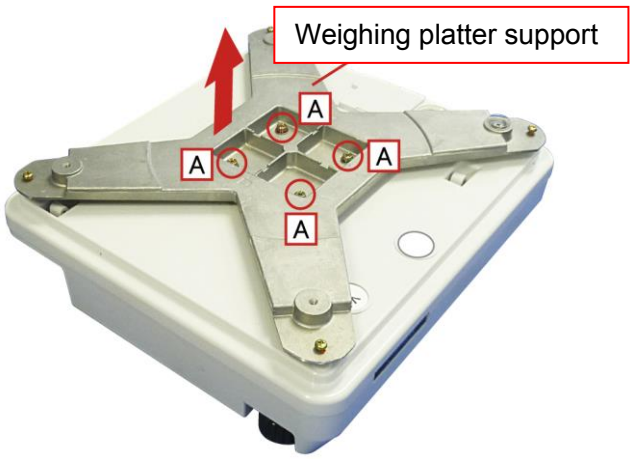
(4) After replacing the touch panel, mount it in the reverse order of the removal procedure.

2.4 Replacing the Weighing Unit

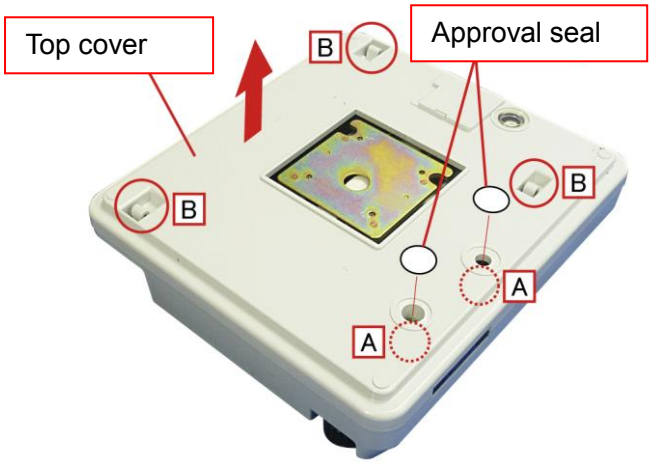
NOTE After replacing the load cell and A/D board and adjusting the span, it is necessary to do a verification test after attaching a new approval seal.



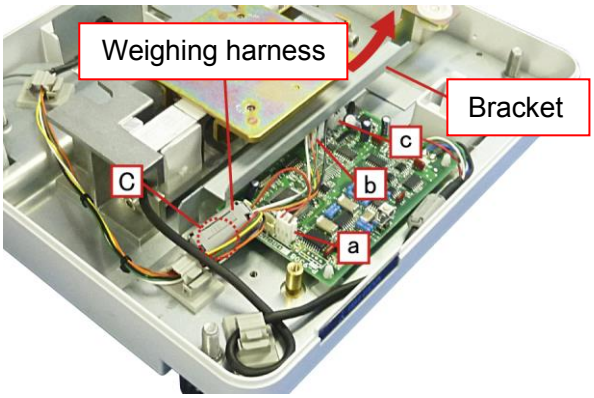
(1) Remove the weighing platter.



(2) Remove the four screws A and remove the weighing platter support.

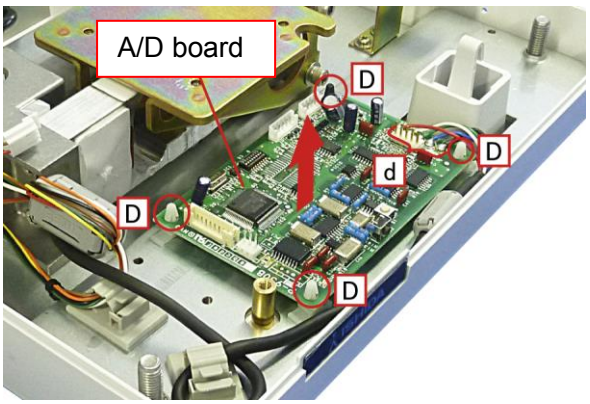


(3) Peel off the two approval seals, remove the screw A under the seal, and remove the three claws B. Then, remove the upper case.

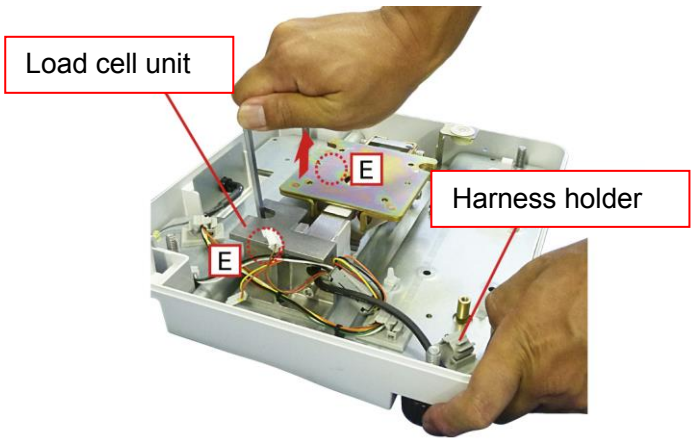


(4) Remove the connectors a, b and c, remove the screw C under the weighing harness, and remove the bracket.

NOTE The approval seal cannot be reused once it has been peeled off.

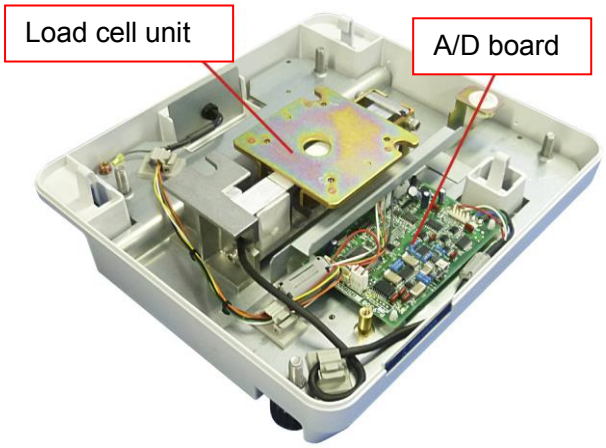


(5) Remove the solder d from the five points, remove the board holders D from the four points, and then remove the A/D board.



(6) Remove the two socket head bolts E with a hexagon wrench.

(7) Open the harnesses holder and remove the load cell unit.



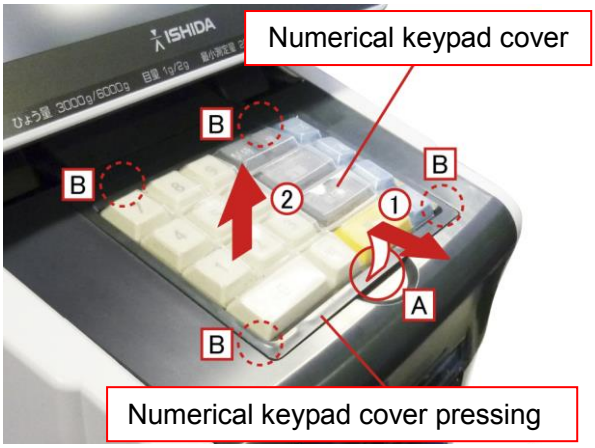
(8) After replacing the A/D board and the load cell unit, mount them in the reverse order of the removal procedure.

(9) After mounting, adjust the weighing unit.

NOTE After adjusting the weighing unit, make sure to replace the approval seal that has been peeled off in step 3 with a new one and attach it.

NOTE Mount the top cover so that there is no gap.
If there is a gap, it is not possible to measure weights correctly.

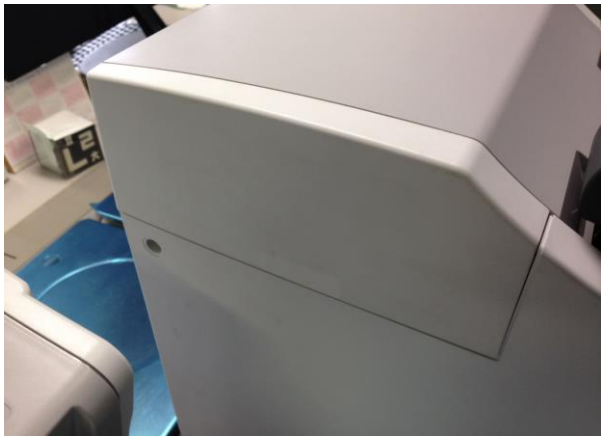
2.5 Replacing the Numerical Keypad Cover (Optional)



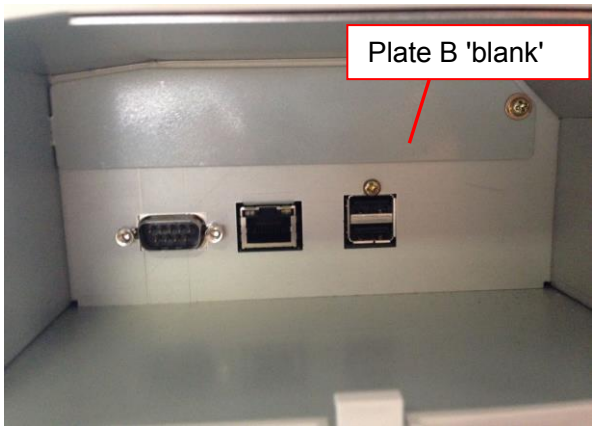
(1) Lift up the part A, remove the numerical keypad cover pressing in the direction of the arrow 1 while removing the claws B from four points.

(2) Remove the numerical keypad cover (optional) in the direction of the arrow 2, and replace it.

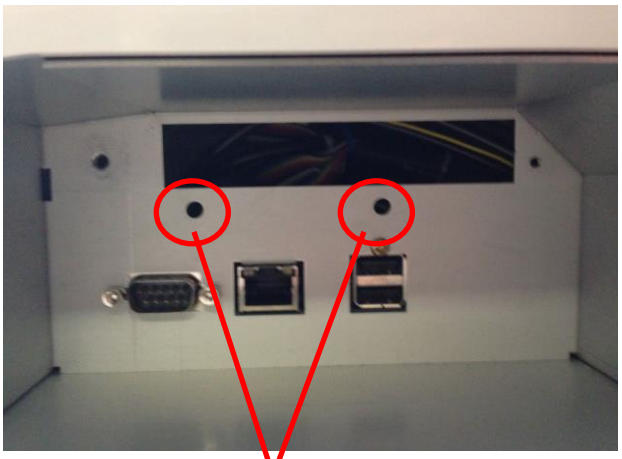
2.6 Wireless LAN kit overseas edition expansion (Optional)



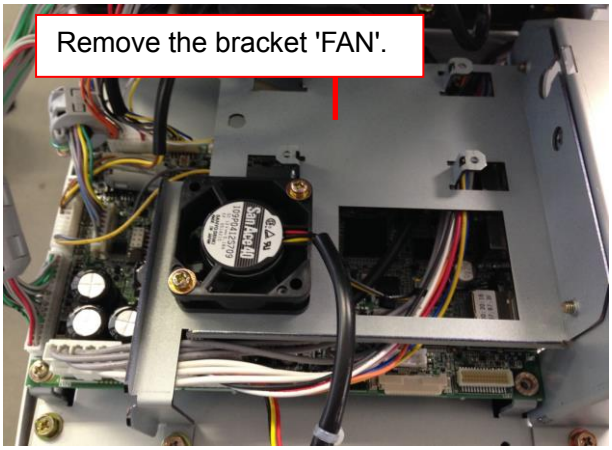
(1) Open the side cover.



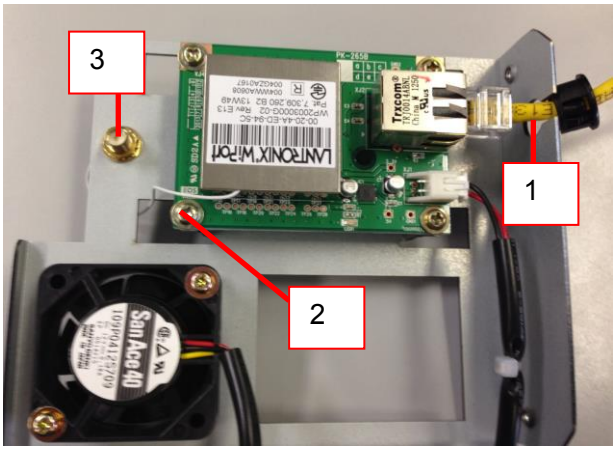
(2) Remove the cover 'blank'.



(3) Remove the upper cover.



(4) Remove the bracket 'FAN'.



(5) Mount the PWB'PK-265.

1: Attach the harness' S2'LAN

2: Attach four places of PWB'PK-265 with a bundled TP screw (3 X 6).

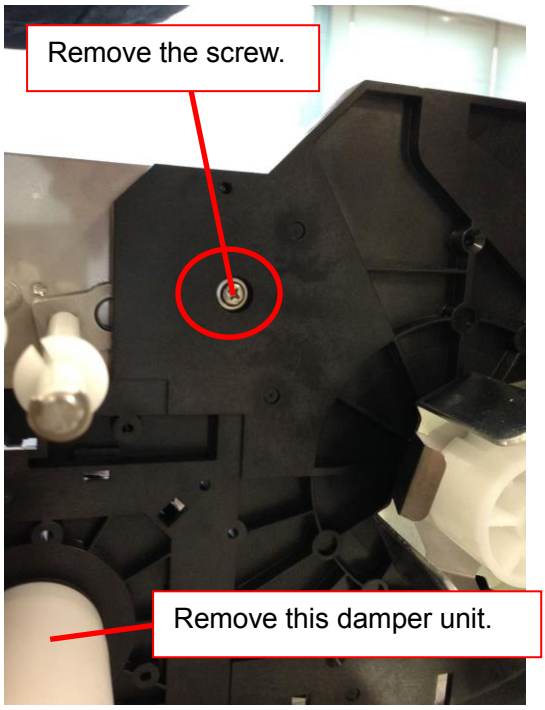
3: Screw the antenna base to fix.

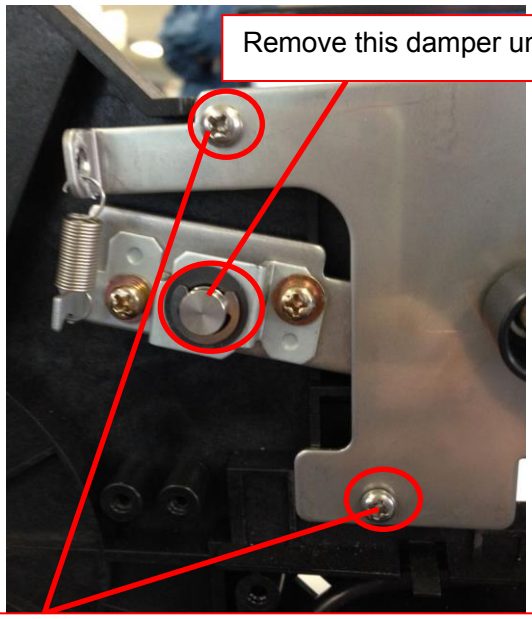
(6) Antenna mounting

(7) Put the bracket 'FAN' back to the based position .

(8) In the case of the United States and Canada specifications, put the following sticker in the space vacated on the nameplate.

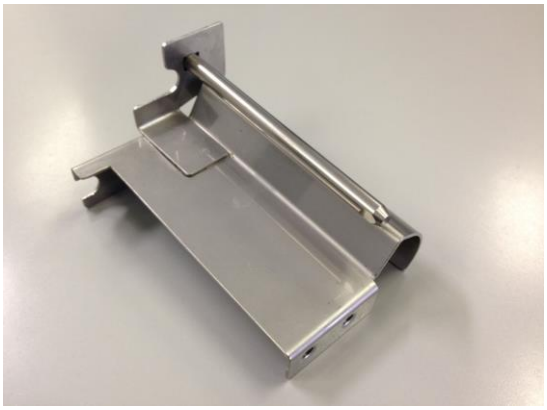
2.7 Curling inward label correspondence (Optional)



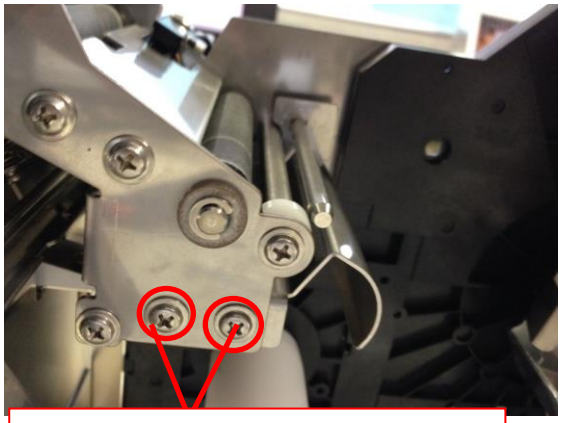


Remove these two positions of the screws and pull the damper unit.
Then, put the screws back to the original position.

(1) Open the side cover.



(2) Attach the Curling inward label bracket.



(3) Replace the label route diagram to the diagram of curling inward specifications.

* Either replacing or sticking over will be OK.

Chapter 3 Electric Components

3.1 PCB Configuration of the Electric Part

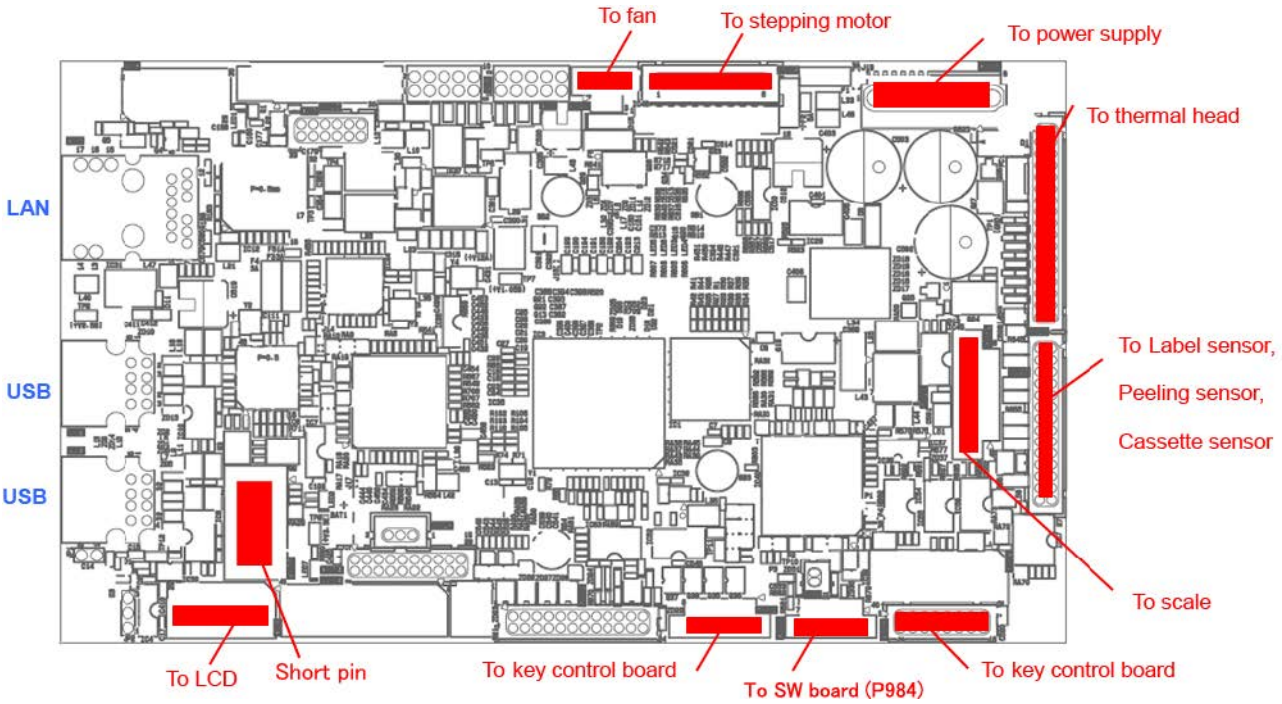
DANGER **Before putting your fingers or hand into the main unit, be sure to press the emergency stop switch.**

CAUTION **Please note that 24 VDC power supply for the logic system will not be turned off even if the emergency stop switch is pressed.**

CAUTION **If the fuse is blown, always replace it with a specified fuse.**

3.1.1 Main Board

P1100A-2 (Product No. 100-002-9443-00)



- Connectors

Connector No.	Connected to	Reference
XJ1	Not used.	
XJ2	Not used.	
XJ3	Not used.	
XJ4	Not used.	
XJ5	Not used.	
XJ6	Not used.	
XJ7	Not used.	
XJ8	Not used.	
XJ9	LCD	
XJ10	Stepping motor	
XJ11	Not used.	
XJ12	Not used.	
XJ13	Power supply	
XJ14	Not used.	
XJ15	Short pin	
XJ16	Scale	
XJ17	Thermal head	
XJ18	Not used.	
XJ19	Not used.	
XJ20	Fan	
XJ21	Label sensor Peeling sensor Cassette sensor	
XJ22	Not used.	
XJ23	SW board (P984)	
XJ24	Not used.	
XJ25	Key control board (P1102-1) Option wireless module	
XJ26	Not used.	

- DIPSW

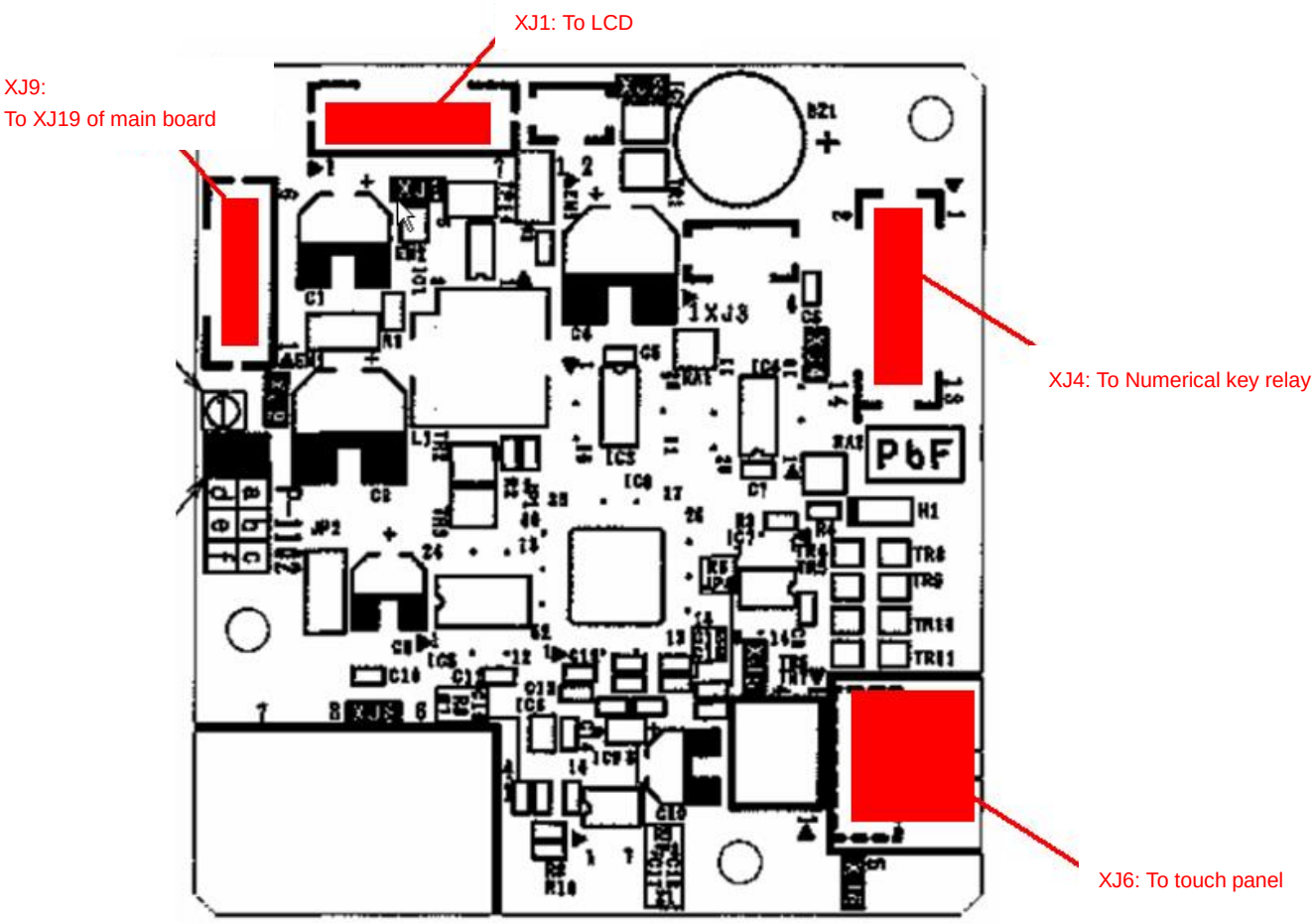
Switch name	Switch No.	Setting	Remarks
SW1	1	OFF	Always OFF
	2	OFF	Always OFF
	3	OFF	Always OFF
	4	OFF	Always OFF

- Battery

Type	ON/OFF	Replacement
Short pin	Turned ON with socket inserted into 1-2.	

3.1.2 Key Control Board

P1102-4 (Product No. 100-003-3188-**)

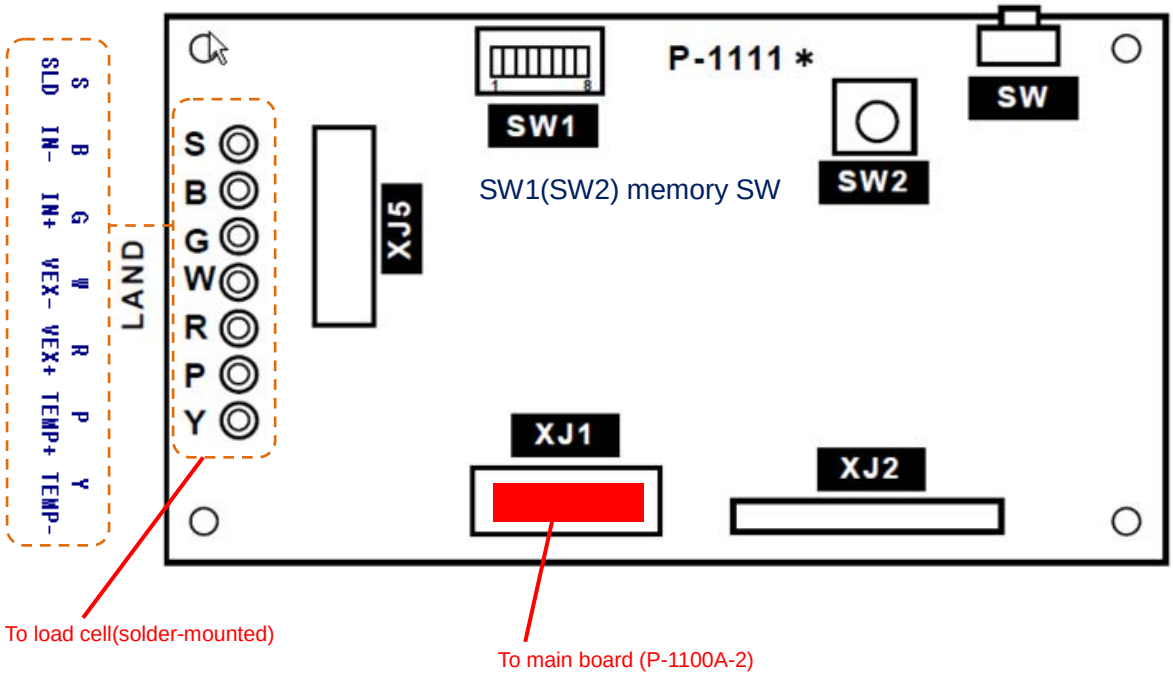


- Connectors

Connector No.	Connected to	Reference
XJ1	Not used.	
XJ2	Not used.	
XJ3	Not used.	
XJ4	Numerical key relay	
XJ5	Not used.	
XJ6	Touch panel	
XJ7	Not used.	
XJ8	Optional RS232C scanner	
XJ9	P-1100A XJ25	

3.1.3 Scale Board

P-1111A-2 (Product No. 100-003-3404-**)



- Connectors

Connector No.	Connected to	Reference
XJ1	P-1100 main board	
XJ2	Not used.	
XJ3	Not used.	
XJ4	Not used.	
XJ5	Load cell	

- DIP switch

Switch name	Switch No.	Setting	Remarks
SW1	1	OFF	Always OFF
	2	ON	for verify pairing
	3	OFF	Always OFF
	4	OFF	Always OFF
	5	OFF	Always OFF
	6	OFF	Always OFF
	7	OFF	Always OFF
	8	OFF	Always OFF

Chapter 4 Setup Mode

4.1 Startup

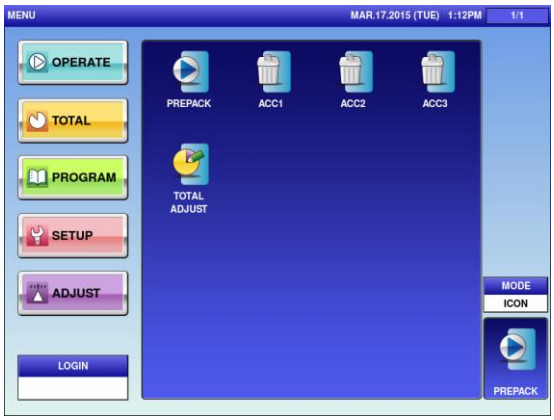
Turn on the power.

The PREPACK screen in the OPERATE mode appears.

Press at the upper right side of the screen.

The menu appears in the OPERATE MODE.

Press the [SET UP] button on the screen.

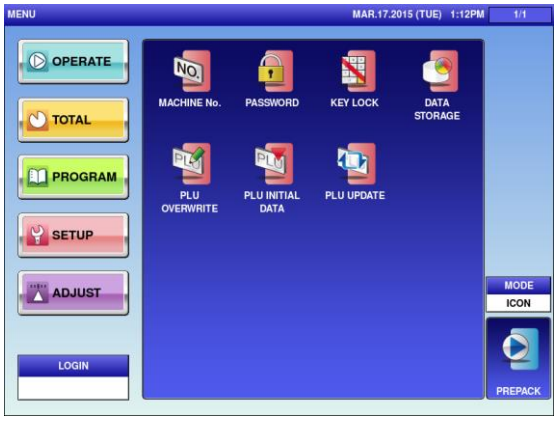


The User Menu screen in the Setup mode appears.

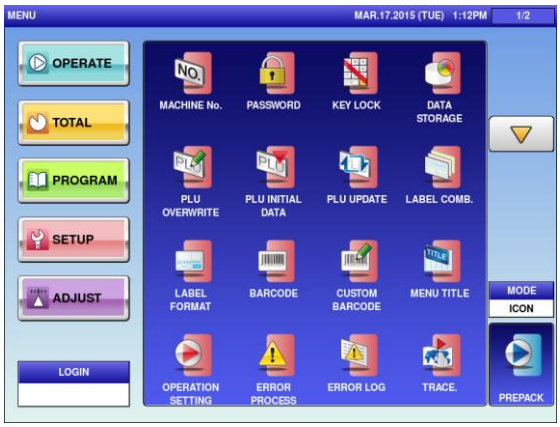
Input the password "**495344"** using the numerical keys, and press the [LOGIN] button on the screen.

4 9 5 3 4 4

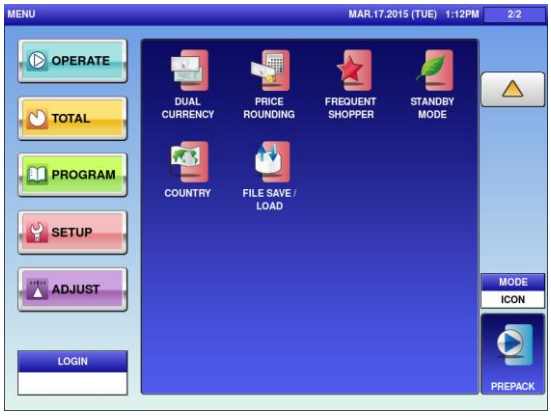
LOGIN
******



The Maintenance Menu screen appears in the Setup mode.



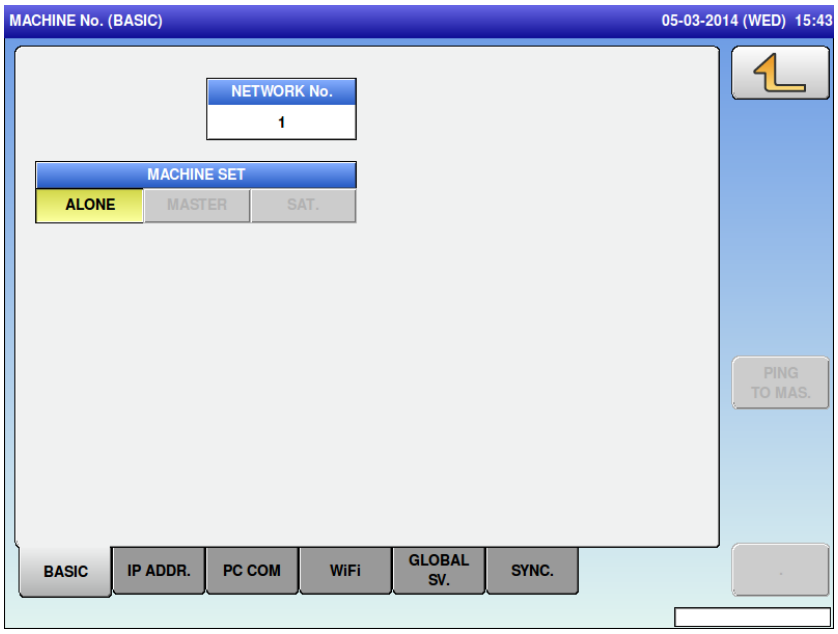
Maintenance Menu screen 1/2



Maintenance Menu screen 2/2

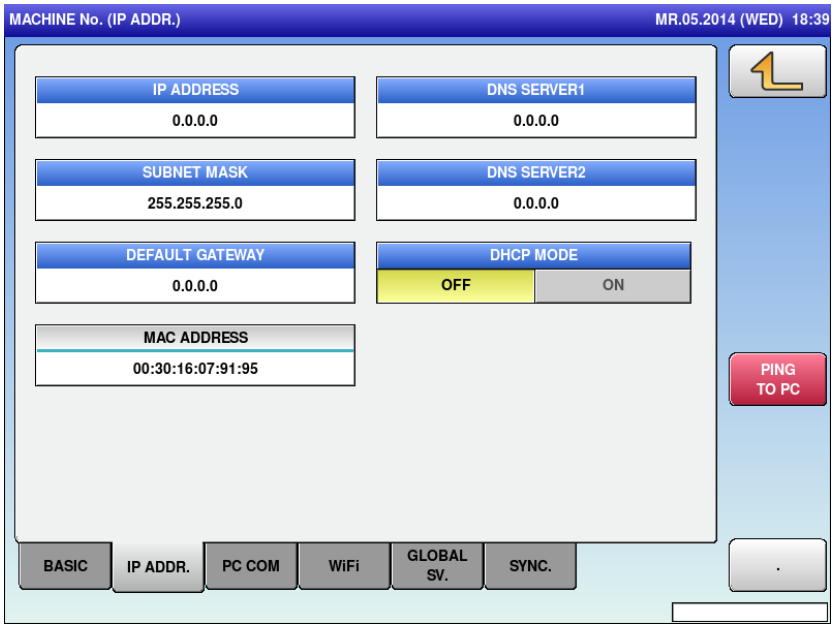
4.2 MACHINE NO. SETTING

4.2.1 MACHINE No. (BASIC)



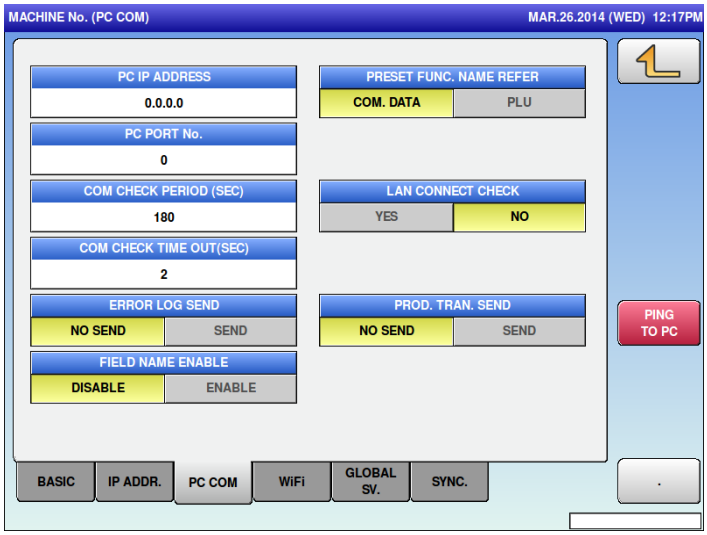
Menu name	Specification
	Return to Menu. Other tabs also have the same function.
NETWORK No.	Set the machine No. Input range: 0 to 9999
MACHINE SET	Select one of the stand-alone, master or satellite machines. ALONE / MASTER / SAT. This function is enabled only when you log into the service network. The confirmation dialog appears when ALONE, MASTER and SAT. are selected respectively.

4.2.2 MACHINE No. (IP ADDR.)



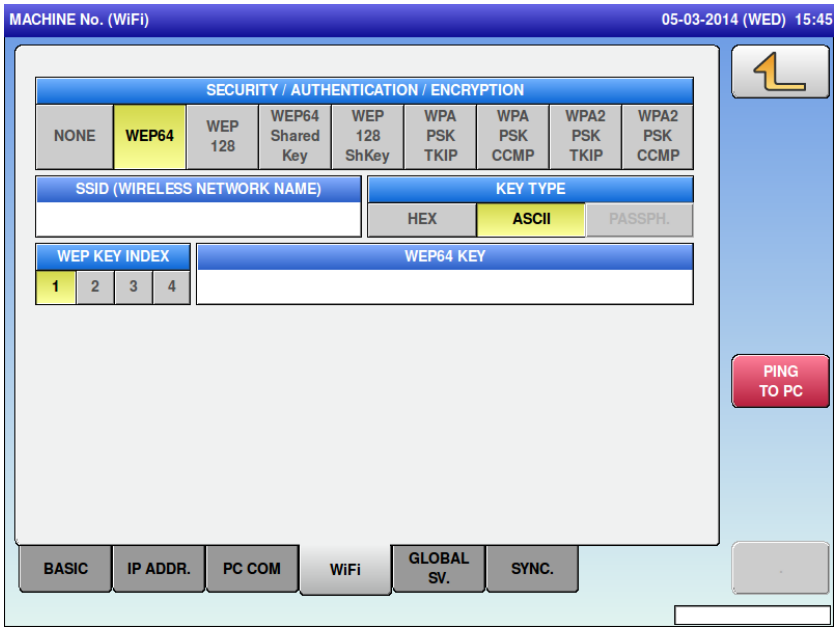
Menu name	Specification
IP ADDRESS	Set the IP address. Input range: “0.0.0.0” to “255.255.255.255”
SUBNET MASK	Set the subnet mask. Input range: “0.0.0.0” to “255.255.255.255”
DEFAULT GATEWAY	Set the default gateway. Input range: “0.0.0.0” to “255.255.255.255”
DNS SERVER1	Set the IP address of Primary DNS server. Input range: “0.0.0.0” to “255.255.255.255”
DNS SERVER2	Set the IP address of Secondary DNS server. Input range: “0.0.0.0” to “255.255.255.255”
DHCP MODE	Select whether or not to use DHCP.
PING TO PC	Ping the PC. Other tabs also have the same function.
.	Enter “.”(dot). Used for IP address setting. Other tabs also have the same function.

4.2.3 MACHINE No. (PC COM)



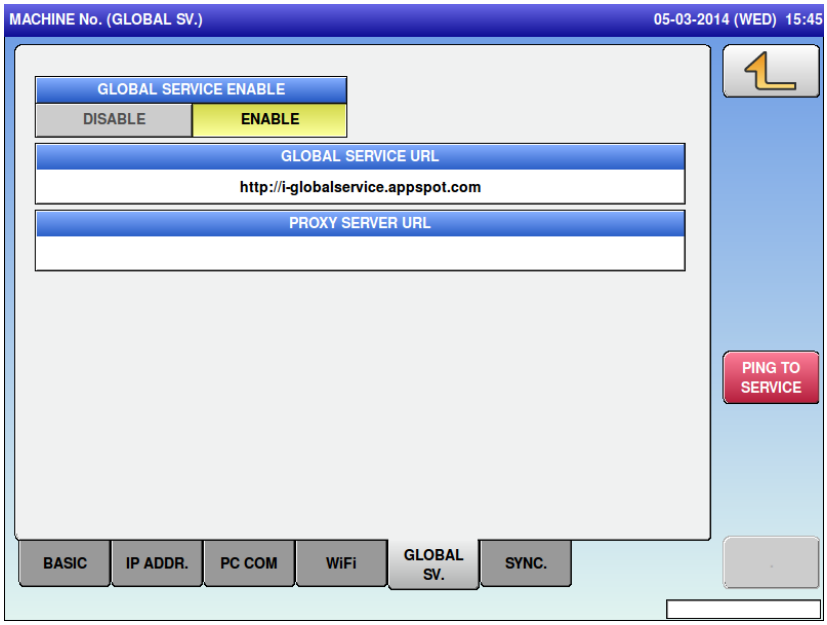
Menu name	Specification
PC IP ADDRESS	Set the PC's IP address. Input range: “0.0.0.0” to “255.255.255.255”
PC PORT No.	Set the PC's port No. Input range: 0 to 65535
COM CHECK PERIOD (SEC)	Set the command check period. Input range: 0 to 9999
COM CHECK TIME OUT (SEC)	Set the command check time-out. Input range: 2 to 5
ERROR LOG SEND	Set whether or not to send the error log.
FIELD NAME ENABLE	Select and set whether or not to add filed name to the CSV title line of the transmission data.
PRESET FUNC. NAME REFER	Select the preset function name reference. COM.DATA / PLU
LAN CONNECT CHECK	Set whether or not to perform LAN connect check.
PROD. TRAN SEND	Set whether or not to perform transmission of Production Transaction. (SLP-5)

4.2.4 MACHINE No. (WiFi)



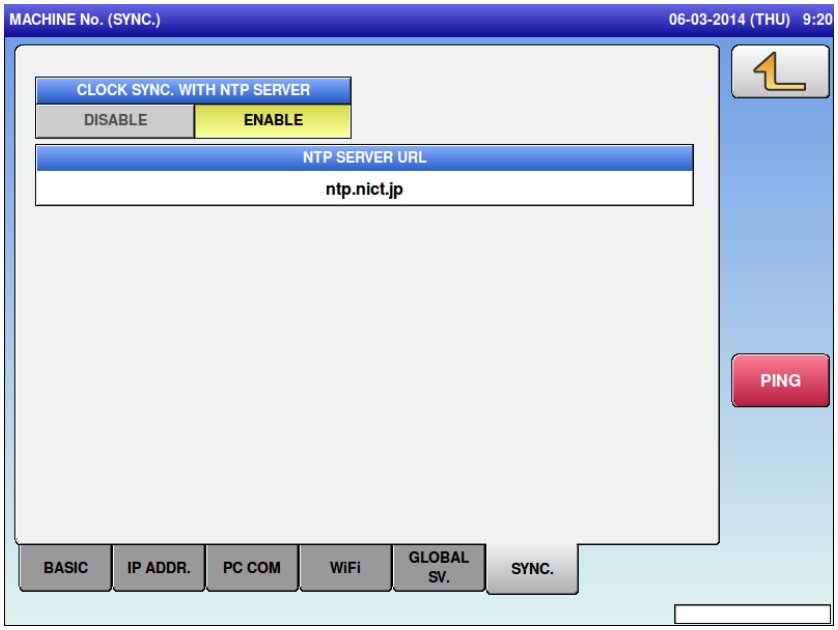
Menu name	Specification
SECURITY / AUTHENTICATION / ENCRYPTION	Select the method of security/authentication/encryption. NONE / WEP64 / WEP128 / WEP64 Shared Key / WEP128 ShKey / WPA PSK TKIP / WPA PSK CCMP / WPA2 PSK TKIP / WPA2 PSK CCMP
SSID(WIRELESS NETWORK NAME)	Set the SSID. Pressing the button opens the Editor screen to edit.
KEY TYPE	Select the WEP key index. HEX / ASCII / PASSPH
WEP KEY INDEX	Select the WEP key index. 1 / 2 / 3 / 4 This function is enabled only when one of WEP64 / WEP128 / WEP64 Shared Key / WEP128ShKey is selected for security / authentication / encryption.
WEP64 KEY	Set the WEP64 Key. Up to 5 bytes This function is enabled only when one of WEP64 / WEP128 / WEP64 Shared Key / WEP128ShKey is selected for security / authentication / encryption.

4.2.5 MACHINE No. (GLOBAL SV.)



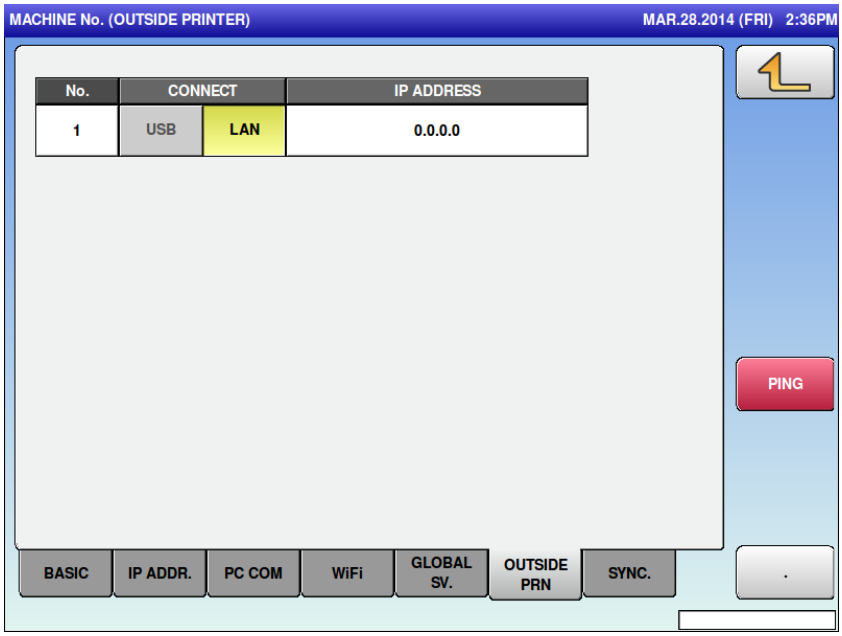
Menu name	Specification
GLOBAL SERVICE ENABLE	Select and set whether or not to use the cloud function (Global Service).
The following parameters are valid only when the GLOBAL SERVICE ENABLE setting is set to [ENABLE] (grayed out when set to [DISABLE])	
GLOBAL SERVICE URL	Set the URL of Cloud server (only when the function is valid). Press the button to open the Editor screen to edit.
PROXY SERVER URL	Set the URL of Proxy server (only when the function is valid). Press the button to open the Editor screen to edit.
PING TO SERVICE	Send PING to the set cloud server (When the cloud function is not in use, the option is grayed out).

4.2.6 MACHINE No. (SYNC.)



Menu name	Specification
CLOCK SYNC. WITH NTP SERVER	Select and set whether or not to use the clock synchronization.
NTP SERVER URL	Set the URL of NTP server. When this function is not in use, the option is grayed out. Press the button to open the Editor screen to edit.

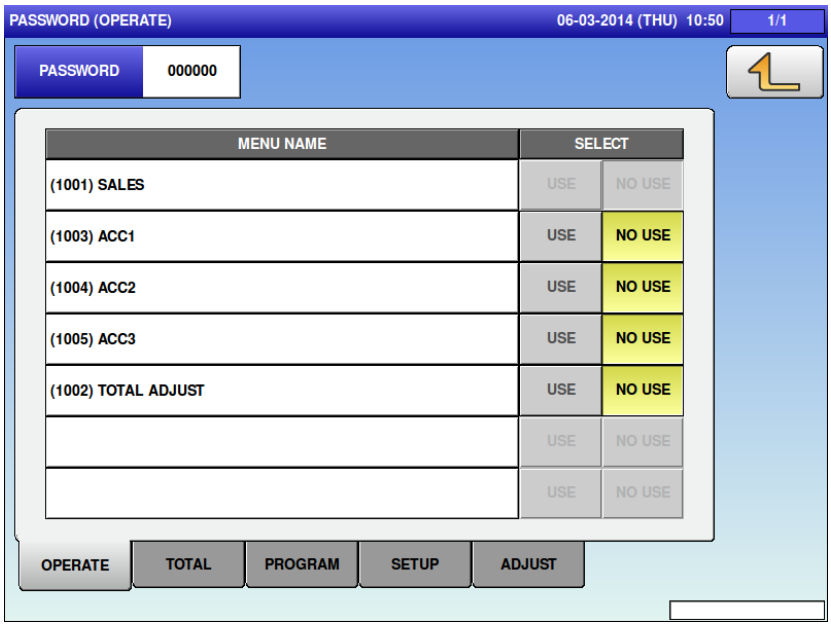
4.2.7 MACHINE No. (OUTSIDE PRINTER)



Menu name	Specification
CONNECT	Select and set the connection method for external printer. USB / LAN
IP ADDRESS	Set the IP address of the printer when the LAN connection is selected When the USB is selected, this option is grayed out.

4.3 PASSWORD

4.3.1 PASSWORD (OPERATE)

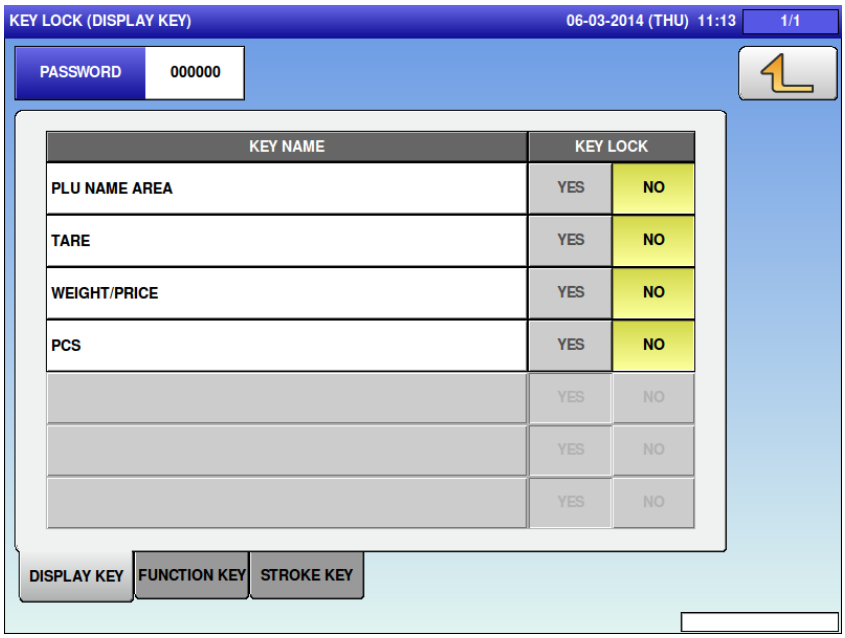


Menu name	Specification
PASSWORD	Set the password in six digits. Logging in by this password will release the menu operation prohibited status.
MENU NAME	Display the menu name. Both USE and NO USE for SALES are grayed out because SALES cannot be locked with the password.
SELECT	Select whether or not to lock with the password. USE: Locked NO USE: Not locked

(All tabs have the same operations so their explanations are omitted here.)

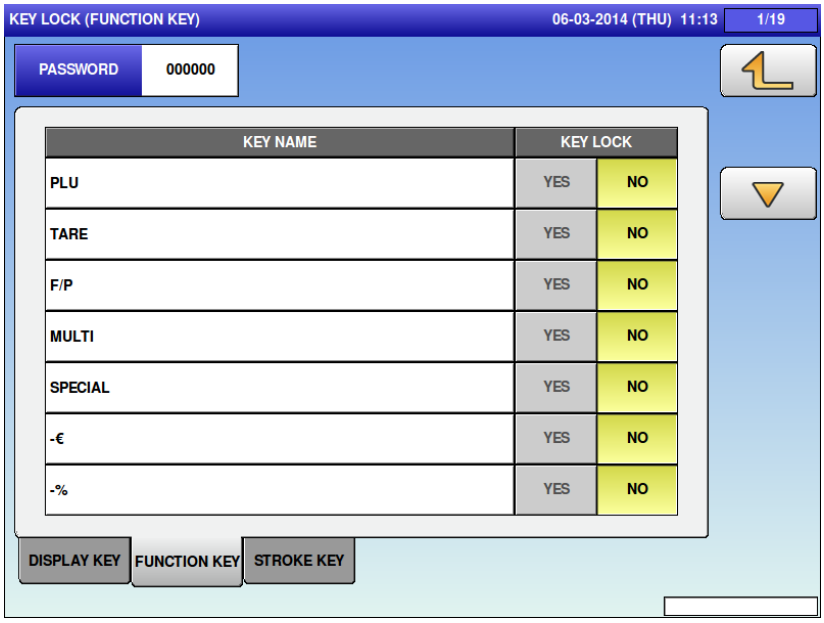
4.4 KEY LOCK

4.4.1 KEY LOCK (DISPLAY KEY)



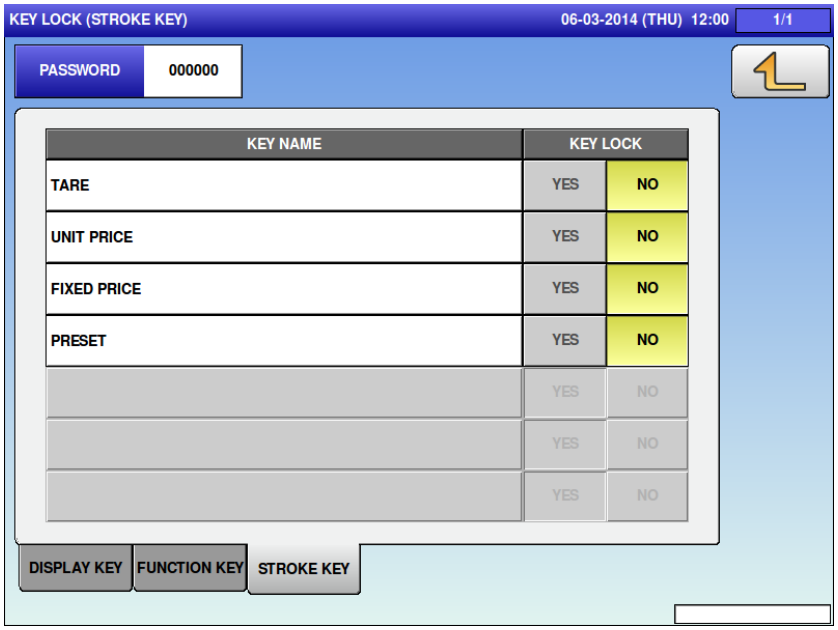
Menu name	Specification
PASSWORD	Set the password in six digits. Normally in the PRODUCTION screen, enter this password and press KEY LOCK FUNCTION to release the input prohibited status.
KEY NAME	Display the measurement menu on the normal mode screen.
KEY LOCK	Select whether or not to set a key lock. YES: The key lock is set. NO: The key lock is not set.

4.4.2 KEY LOCK (FUNCTION KEY)



Menu name	Specification
PASSWORD	Set the password in six digits. Normally in the PRODUCTION screen, enter this password and press KEY LOCK FUNCTION to release the input prohibited status.
KEY NAME	Display the function key name.
KEY LOCK	Select whether or not to set a key lock. YES: The key lock is set. NO: The key lock is not set.

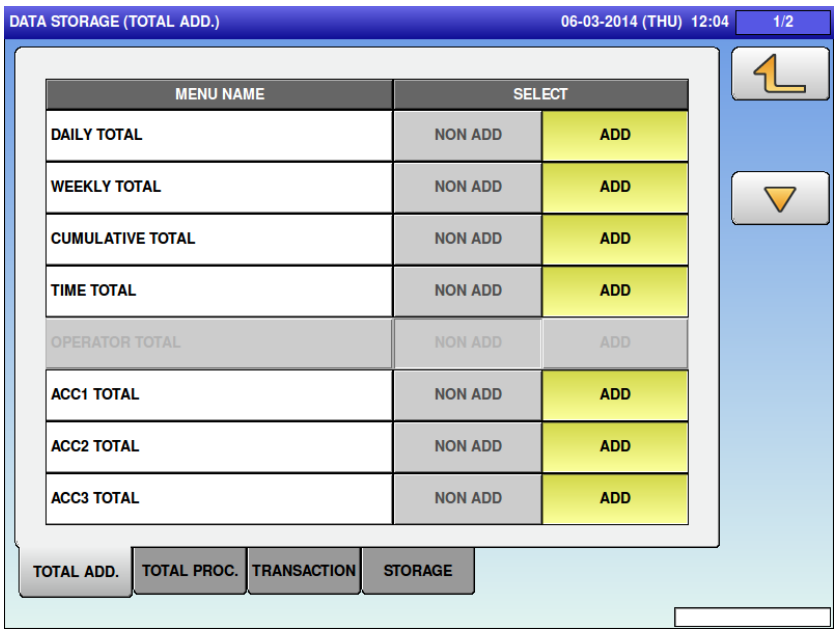
4.4.3 KEY LOCK (STROKE KEY)



Menu name	Specification
PASSWORD	Set the password in six digits. Normally in the PRODUCTION screen, enter this password and press KEY LOCK FUNCTION to release the input prohibited status.
KEY NAME	Display the stroke key name.
KEY LOCK	Select whether or not to set a key lock. YES: The key lock is set. NO: The key lock is not set.

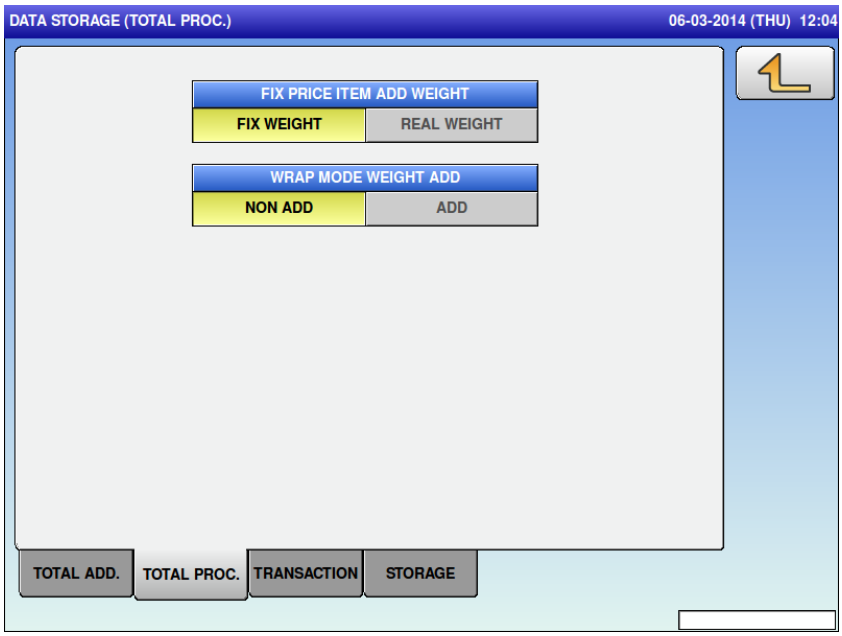
4.5 DATA STORAGE

4.5.1 DATA STORAGE (TOTAL ADD.)



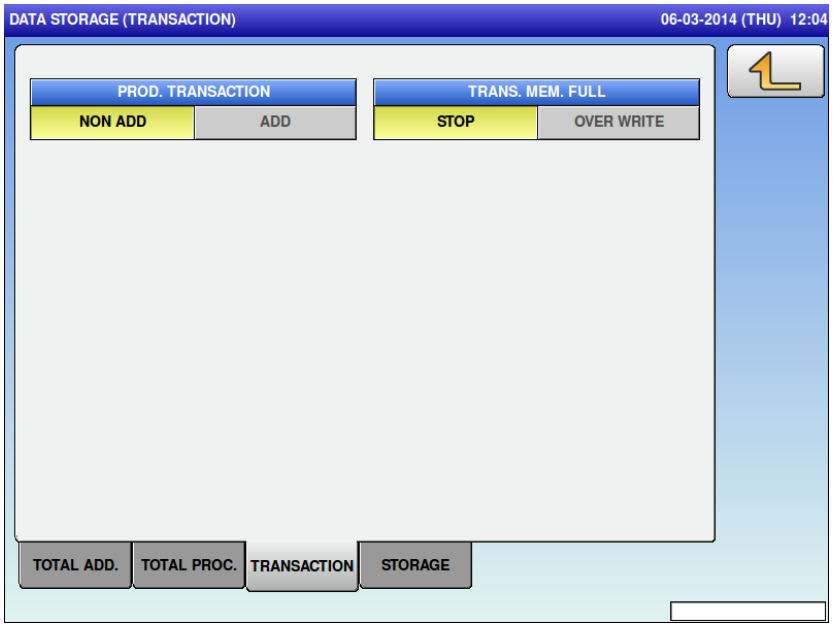
Menu name	Specification
MENU NAME	Display the menu name.
SELECT	Select whether or not to add. NON ADD / ADD
The TOTAL PROC. / TRANSACTION / STORAGE tabs are displayed only when you access above menus after logging in with the service password.	

4.5.2 DATA STORAGE (TOTAL PROC.)



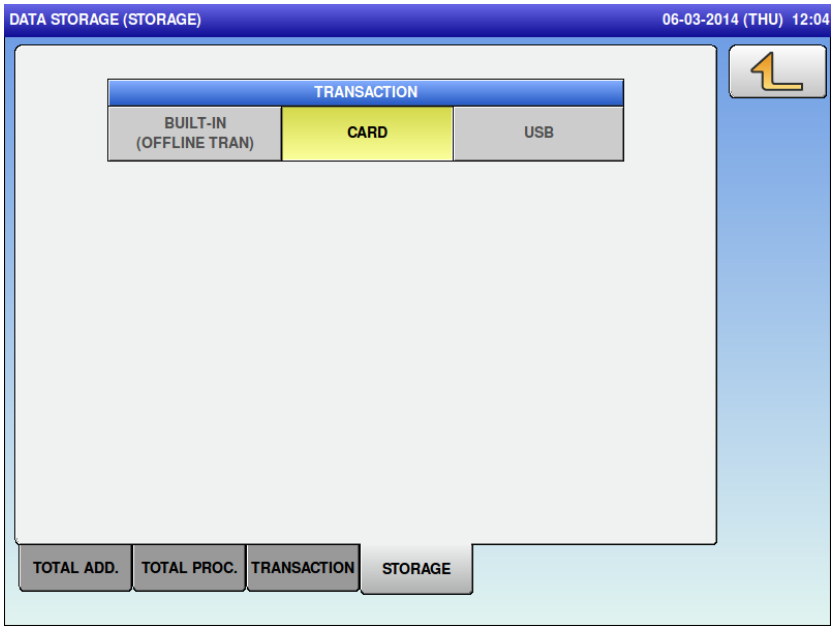
Menu name	Specification
FIX PRICE ITEM ADD WEIGHT	Select the addition weight of fixed-price items. FIX WEIGHT / REAL WEIGHT
WRAP MODE WEIGHT ADD	Select and set whether or not to perform Weight Add in the production in the WRAP mode.

4.5.3 DATA STORAGE (TRANSACTION)



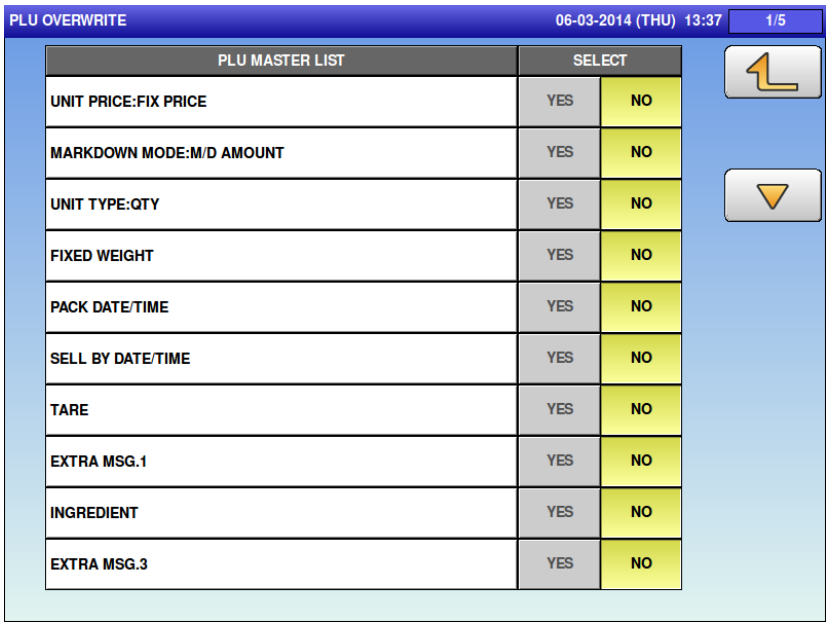
Menu name	Specification
PROD. TRANSACTION	Select whether or not to add the product transaction. NON ADD / ADD
TRANS. MEM. FULL	Select between stopping or overwriting the transaction addition at full memory condition. STOP / OVERWRITE

4.5.4 DATA STORAGE (STORAGE)



Menu name	Specification
TRANSACTION	Select where to save the transaction. BUILT-IN / CARD / USB

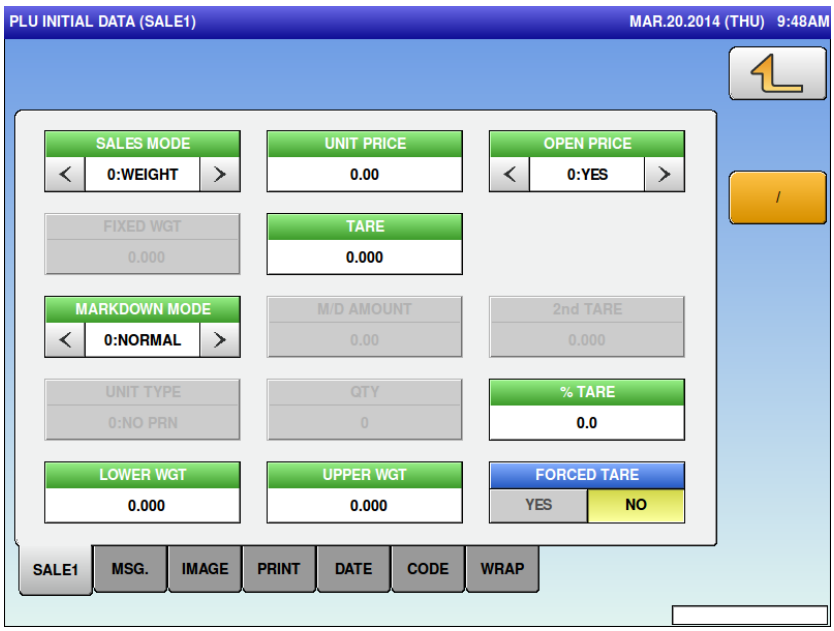
4.6 PLU OVERWRITE



Menu name	Specification
PLU MASTER LIST	Display the PLU master item.
SELECT	Select whether or not to automatically update the PLU master item. YES / NO

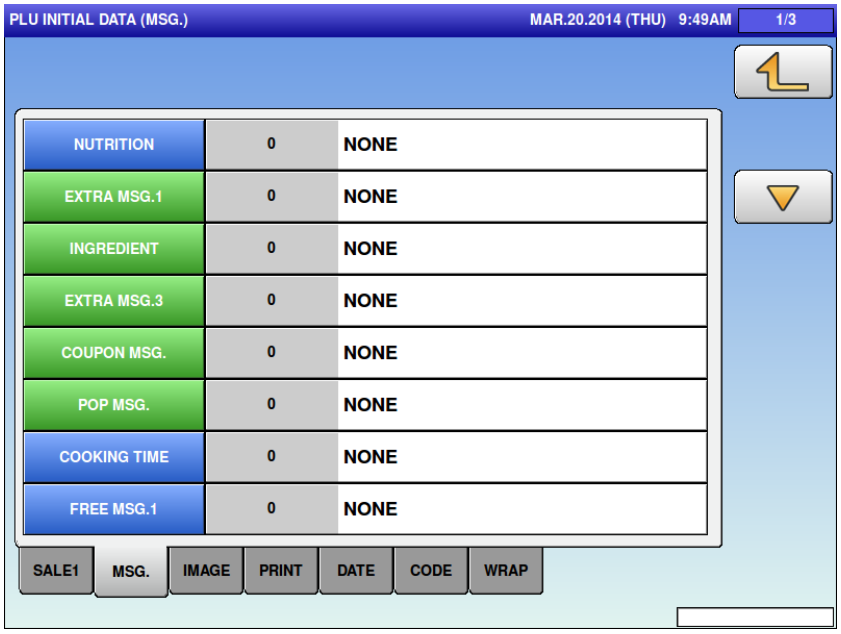
4.7 PLU INITIAL DATA

4.7.1 PLU INITIAL DATA (SALE1)



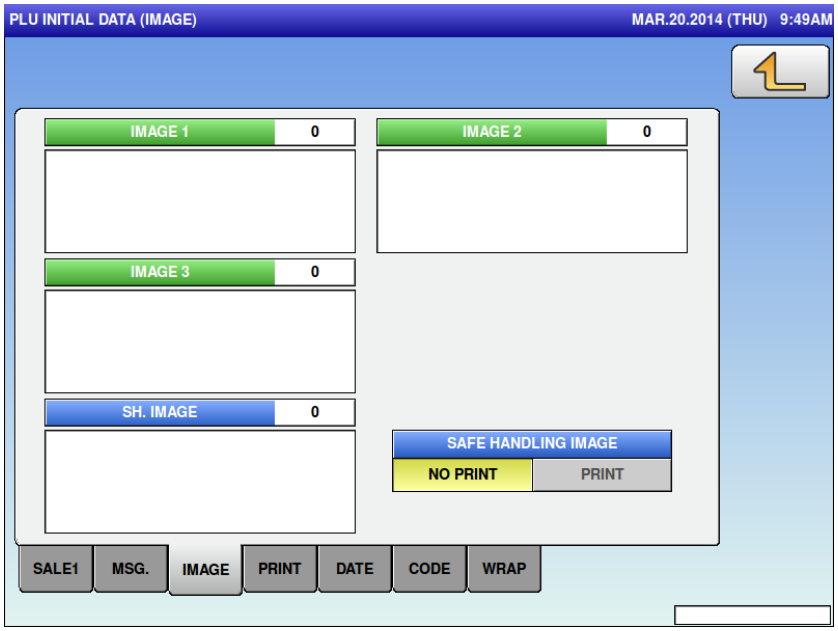
Menu name	Specification
/	Used to enter fractions. (Valid only when entering the fixed No. of items.) Other tabs also have the same function.
(Each item)	Set the initial value to newly create the PLU master.

4.7.2 PLU INITIAL DATA (MSG.)



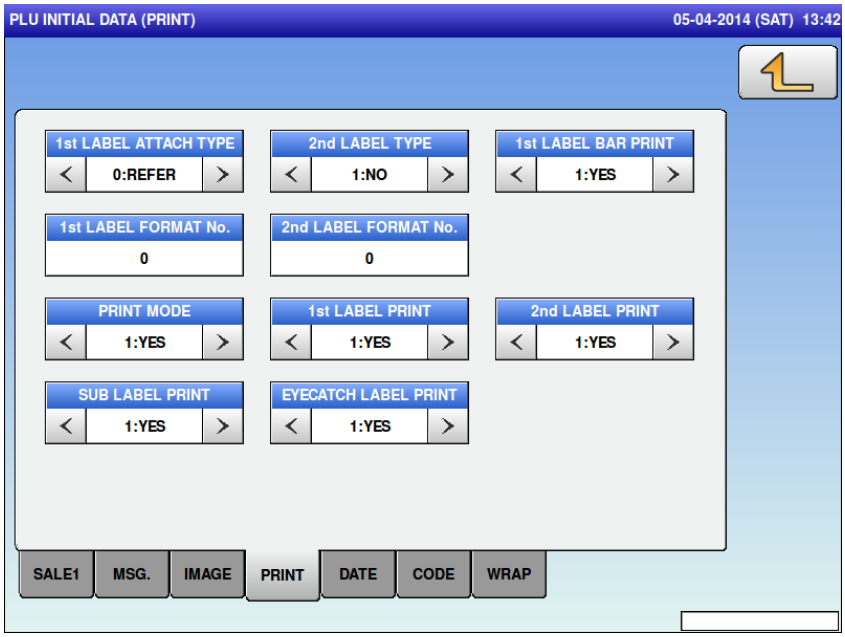
Menu name	Specification
(Each item)	Set the initial value to newly create the PLU master.

4.7.3 PLU INITIAL DATA (IMAGE)



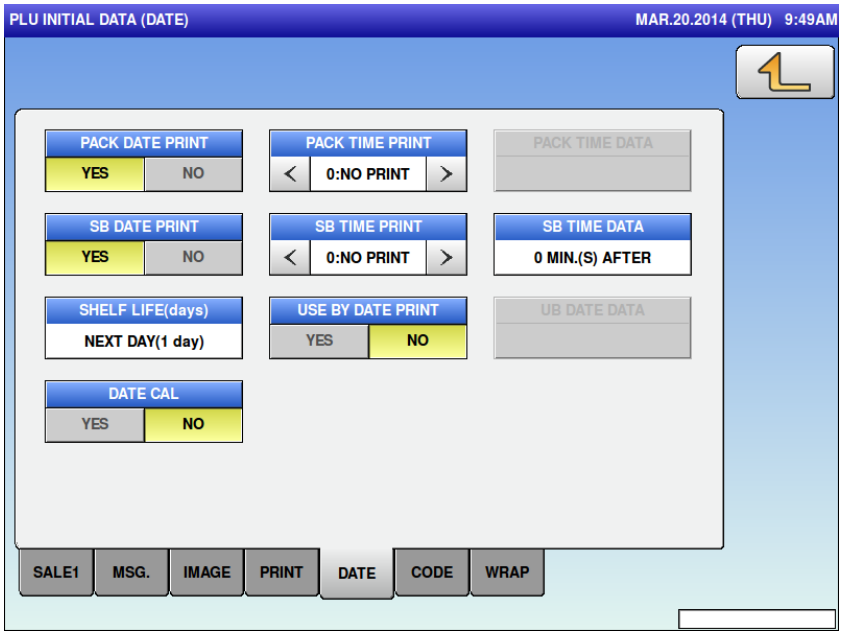
Menu name	Specification
(Each item)	Set the initial value to newly create the PLU master. Pressing an image number item displays the image list.

4.7.4 PLU INITIAL DATA (PRINT)



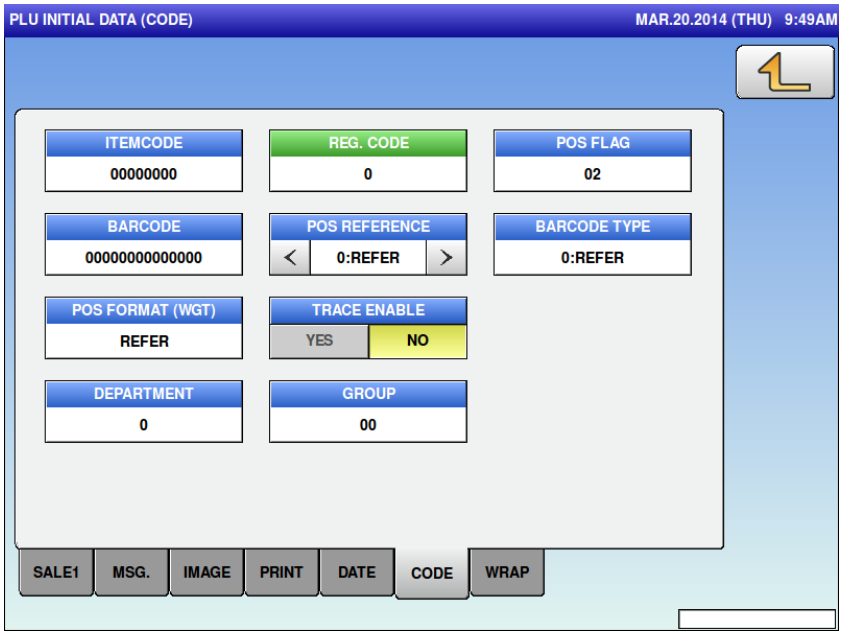
Menu name	Specification
(Each item)	Set the initial value to newly create the PLU master.

4.7.5 PLU INITIAL DATA (DATE)



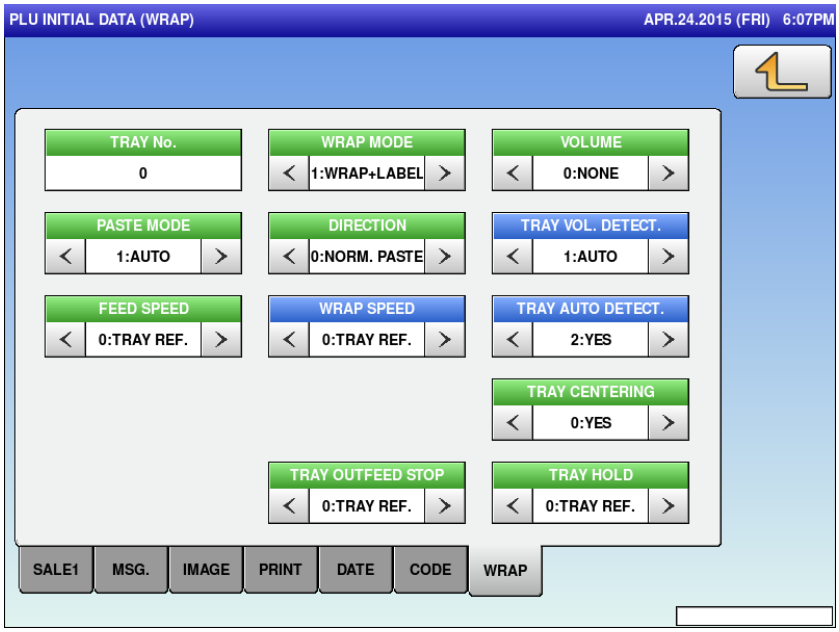
Menu name	Specification
(Each item)	Set the initial value to newly create the PLU master.

4.7.6 PLU INITIAL DATA (CODE)



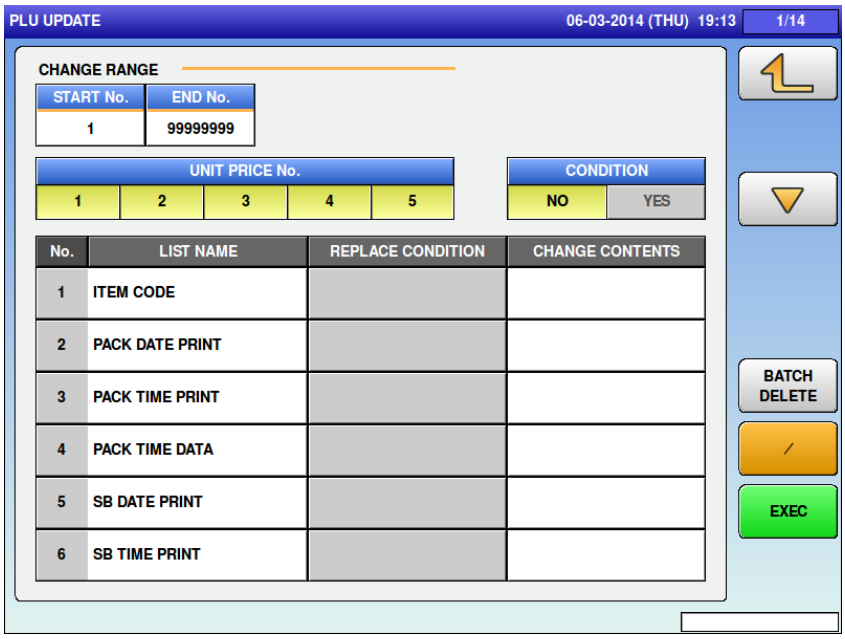
Menu name	Specification
(Each item)	Set the initial value to newly create the PLU master.

4.7.7 PLU INITIAL DATA (WRAP)



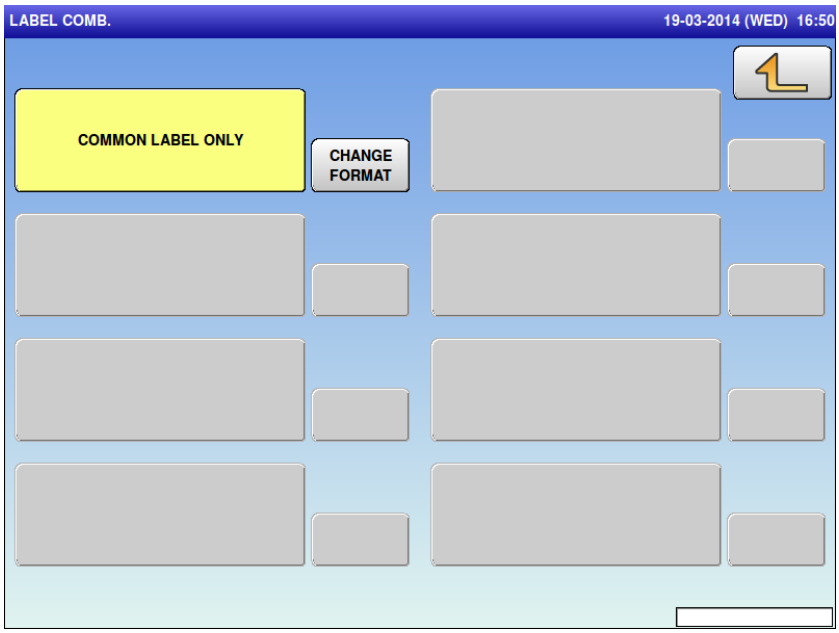
Menu name	Specification
(Each item)	Set the initial value to newly create the PLU master.

4.8 PLU UPDATE



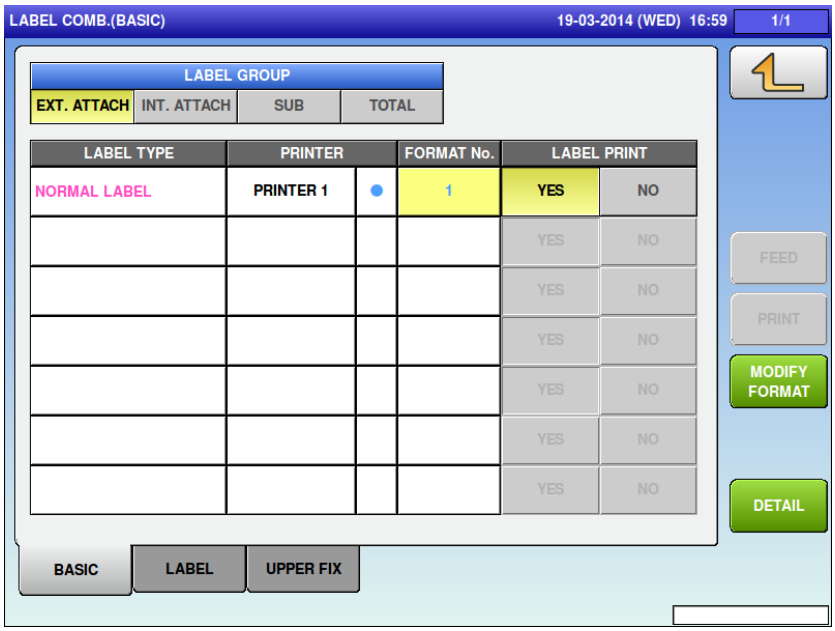
Menu name	Specification
START No.	Set the start No. of the batch change range. Input range: 1 to 99999999
END No.	Set the end No. of the batch change range. Input range: 1 to 99999999
UNIT PRICE No.	Set the unit price No. for the batch change. Touch the button to change the selection.
CONDITION	Select whether or not to specify the replacement condition for the batch change. NO / YES
LIST NAME	Display the item for the batch change. Touch the button to change the selection.
REPLACE CONDITION	Specify the replacement condition. This function is enabled when [YES] is selected in [CONDITION].
CHANGE CONTENTS	Specify the replacement contents.
BATCH DELETE	Cancel all selections.
EXEC	Execute the batch change. The ALL REUPDATE CHECK dialog appears to ask whether to execute the batch change.

4.9 LABEL COMB



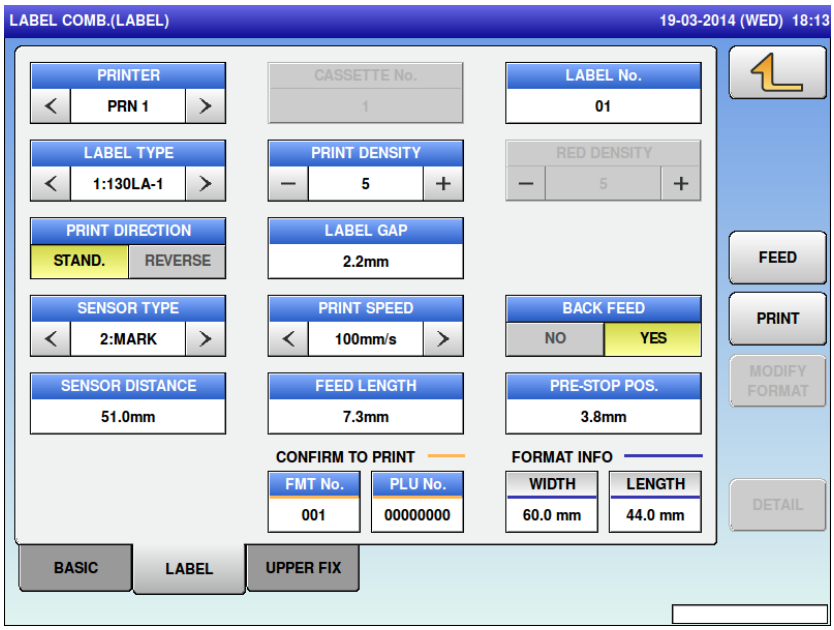
Menu name	Specification
CHANGE FORMAT	Open the LABEL COMB.(BASIC) screen.
COMMON LABEL ONLY	Set the print pattern to [COMMON LABEL ONLY].

4.9.1 LABEL COMB.(BASIC)



Menu name	Specification
LABEL GROUP	Select the label group to display in the list.
LABEL TYPE	Select the label type.
PRINTER	Display the printer to print the label type displayed in the left. Pressing this button sets to the feed format of the printer.
FORMAT No.	Display the format used to print the label type displayed in the left. Input range: 1 to 999
LABEL PRINT	Set whether to print the label when the print condition is satisfied.
MODIFY FORMAT	Move to the FORMAT EDIT screen to edit the selected format.
DETAIL	Move to the LABEL COMB./DETAIL screen.

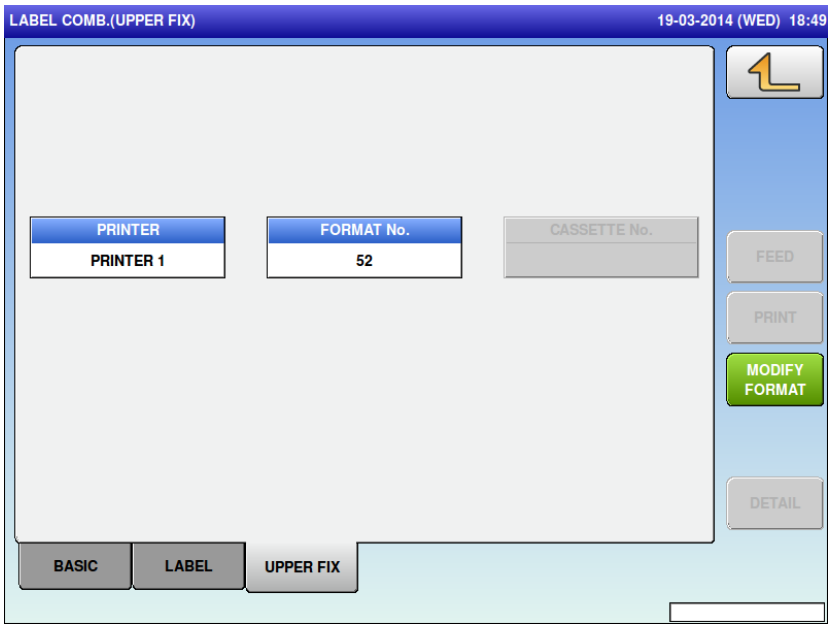
4.9.2 LABEL COMB.(LABEL)



Menu name	Specification
PRINTER	Select or set the printer by entering the number. Only the printer connected can be set.
LABEL No.	Set the label master No. Input range: 1 to 99 If there is no set master, the [LABEL SETTING MASTER IS NOT PROGRAMMED] dialog appears to ask whether to create a new master.
LABEL TYPE	Select the label type. 0: RECEIPT / 1: 130LA-1 / 3: 150LA-1
PRINT DENSITY	Set the print density. Input range: 0 to 9
PRINT DIRECTION	Set the print direction. STAND. / REVERSE
LABEL GAP	Set the label gap. Input range: 0 to 99.9
SENSOR TYPE	Set the sensor type. 0: NO USE / 1: LABEL / 2: MARK
PRINT SPEED	Set the print speed. Input range: 60 to 130

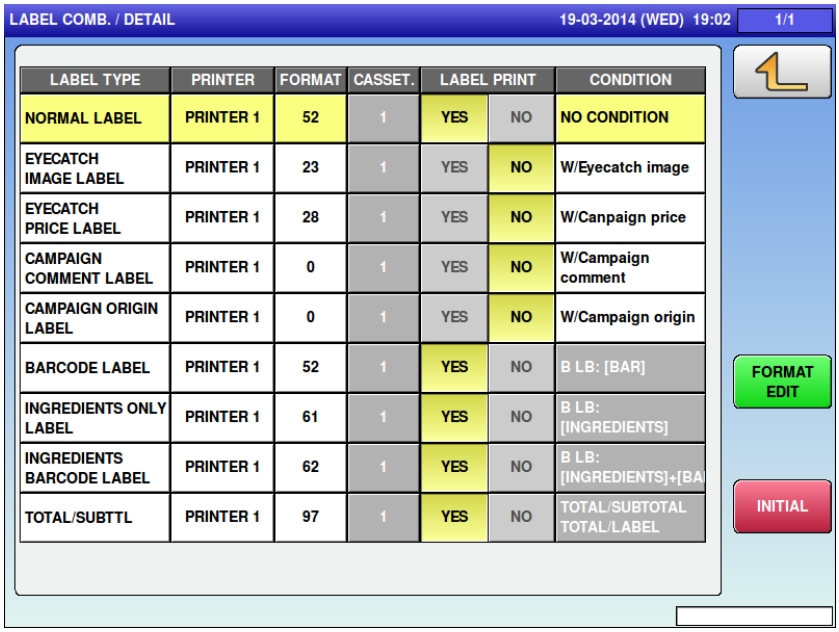
Menu name	Specification
BACK FEED	Select whether or not to set the back feed. NO/YES
SENSOR DISTANCE	Set the label sensor distance. Input range: 0 to 99.9
FEED LENGTH	Set the feed length. Input range: 0 to 99.9
PRE-STOP POS.	When printing the second line, feeding of the printed label is stopped and resumed again immediately when the pasting machine absorbs the label. This option sets the label feeding distance to the position from the edge of head front at the temporal stop of the label feeding. Input range: 0 to 99.9
(CONFIRM TO PRINT) FMT No.	Set the test print label format. Input range: 1 to 999
(CONFIRM TO PRINT) PLU No.	Set PLU No. to use for test printing. Input range: 00000000 to 99999999
(FORMAT INFO) WIDTH	Display the format width for the test print.
(FORMAT INFO) LENGTH	Display the format length for the test print.
CASSETTE No.	Display the cassette No. Only for display

4.9.3 LABEL COMB.(UPPER FIX)



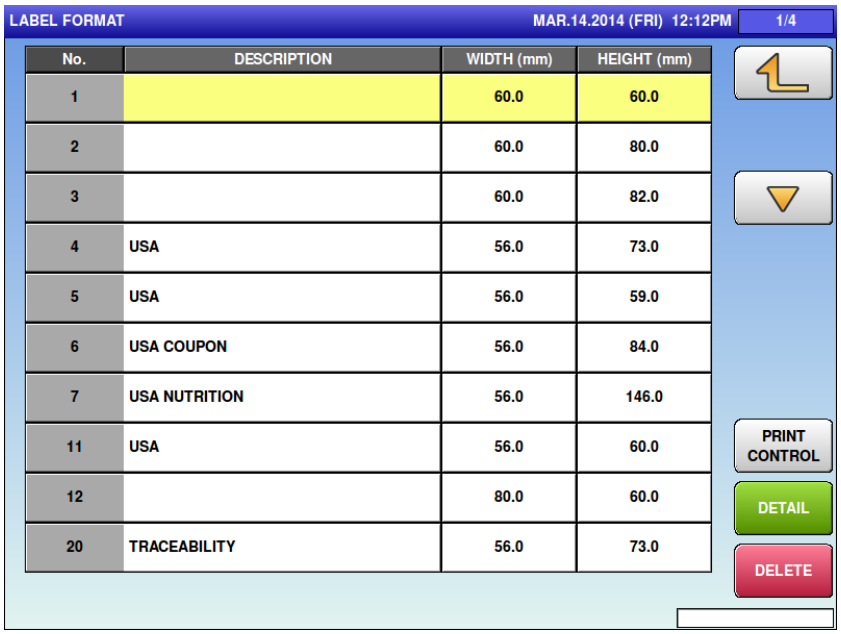
Menu name	Specification
PRINTER	When the paste type is set to FIXED, display the printer to print the label. Move to the PRINTER SELECT screen.
FORMAT No.	When the paste type is set to FIXED, set the format to be used in the label printing. Input range: 1 to 999
CASETTE No.	When the paste type is set to FIXED, set the cassette to use for label printing. Only printers including cassettes can be set.
MODIFY FORMAT	Move to the FORMAT EDIT screen to edit the selected format.

4.9.4 LABEL COMB. / DETAIL



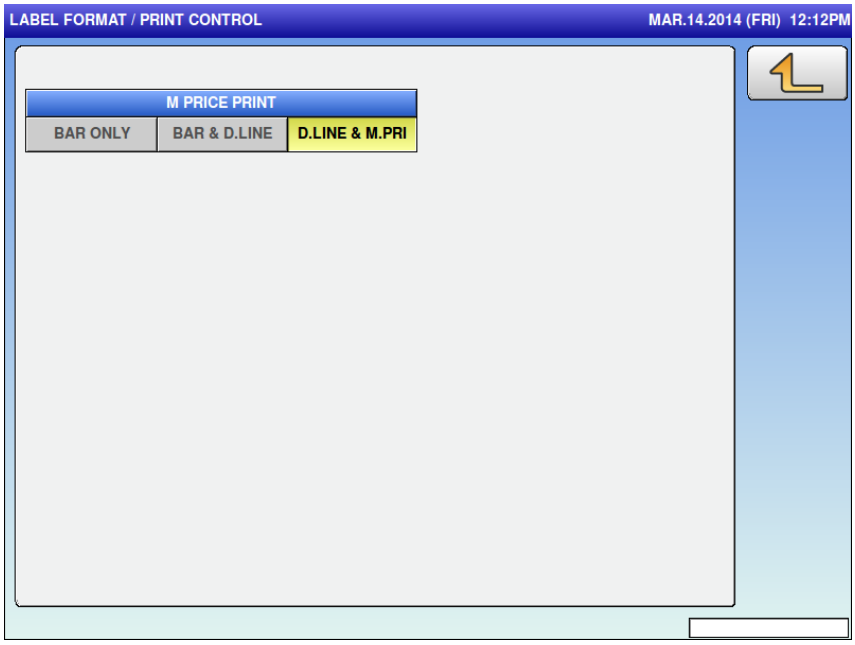
Menu name	Specification
PRINTER	Display the printer for label printing. Move to the PRINTER SELECT screen.
FORMAT	Set the format to be used in the label printing. Input range: 1 to 999
CASSET.	Display the cassette No. to be used in the label printing.
LABEL PRINT	Set whether or not to perform label printing when the label printing conditions are satisfied.
CONDITION	Move to the PRINT CONDITION SELECT screen (When the label group is “reversely pasted label, total label”, the print condition cannot be changed.)
FORMAT EDIT	To edit the selected format, move to the FORMAT EDIT screen.
INITIAL	Initialize the printing pattern.

4.10 LABEL FORMAT



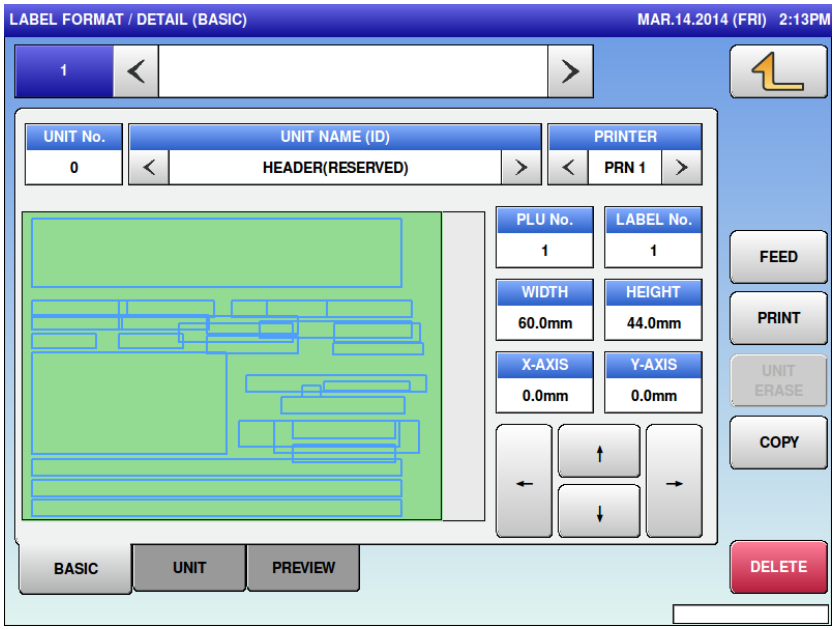
Menu name	Specification
PRINT CONTROL	Open the PRINT CONTROL screen.
DETAIL	Move to the LABEL FORMAT/DETAIL (BASIC) screen.
DELETE	Return the selected format to the default status.
No.	Display the format No.
DESCRIPTION	Display the format title.
WIDTH	Set the format width. Input range: 0 to 800
HEIGHT	Set the format height. Input range: 0 to 2000

4.10.1 LABEL FORMAT / PRINT CONTROL



Menu name	Specification
M PRICE PRINT	Select the M price print. BAR ONLY / BAR & D.LINE / D.LINE & M.PRI

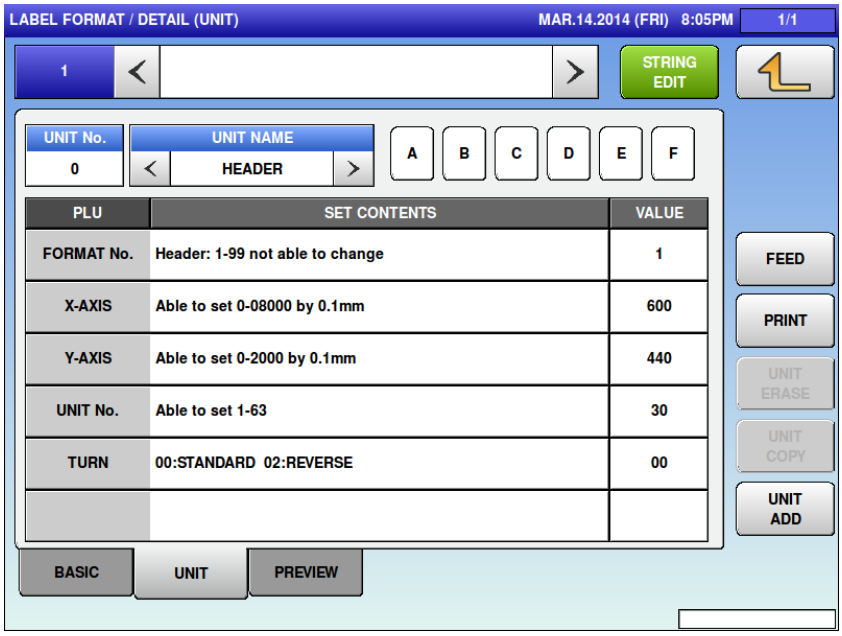
4.10.2 LABEL FORMAT / DETAIL (BASIC)



Menu name	Specification
FORMAT NAME	Touch the button to open the format name edit screen. Touch "<" and ">" located at both sides of the box to select the next (or previous) format master.
UNIT No.	Display the unit No. Touch the button to open the unit list set for the current format. The UNIT tab also has the same function.
UNIT NAME(ID)	Display the selected unit name. If nothing is selected, [HEADER] is selected.
PRINTER	Select the printer No.
PLU No.	Set the PLU No. to be used for the test print and preview. Input range: 1 to 99999999 For 0, print the checker label.
LABEL No.	Specify the label No. Input range: 1 to 99
WIDTH	Set the format width. Input range: 0 to 800
HEIGHT	Set the format height. Input range: 0 to 2000
Y-AXIS	Display the Y axis of selected unit. The axis is moved by entering the numerical number.

Menu name	Specification
FEED	Feed the label.
PRINT	Perform test printing by the format called and the item information set by PLU No.
UNIT ERASE	Delete the selected unit.
COPY	Enter the numerical number and press COPY to copy the said numerical number's format.
DELETE	Delete the format master. The dialog appears to ask whether to delete the format master.
←↑→↓	Move the axis of selected unit. If the HEADER is selected, the axis of whole format is moved.

4.10.3 LABEL FORMAT / DETAIL (UNIT)



Menu name	Specification
FORMAT NAME	Touch the button to open the format name edit screen. Touch "<" and ">" located at both sides of the box to select the next (or previous) format master.
STRING EDIT	Open the format string edit screen. Up to 526 bytes
UNIT No.	Display the unit No. Touch the button to open the unit list set for the current format. The UNIT tab also has the same function.
UNIT NAME(ID)	Display the selected unit name. If nothing is selected, "HEADER" is selected.
ABCDEF	Enter the alphabetical character. For hexadecimal entry
PLU	Display the name of set item.
SET CONTENTS	Display the set contents.
VALUE	Enter the value for set contents.
FEED	Feed the label.
PRINT	Perform test printing by the format being called and the item information set by [PLU No.]
UNIT ERASE	Delete the selected unit.
UNIT COPY	Enter the numerical number and press COPY to copy the said numerical number's format.

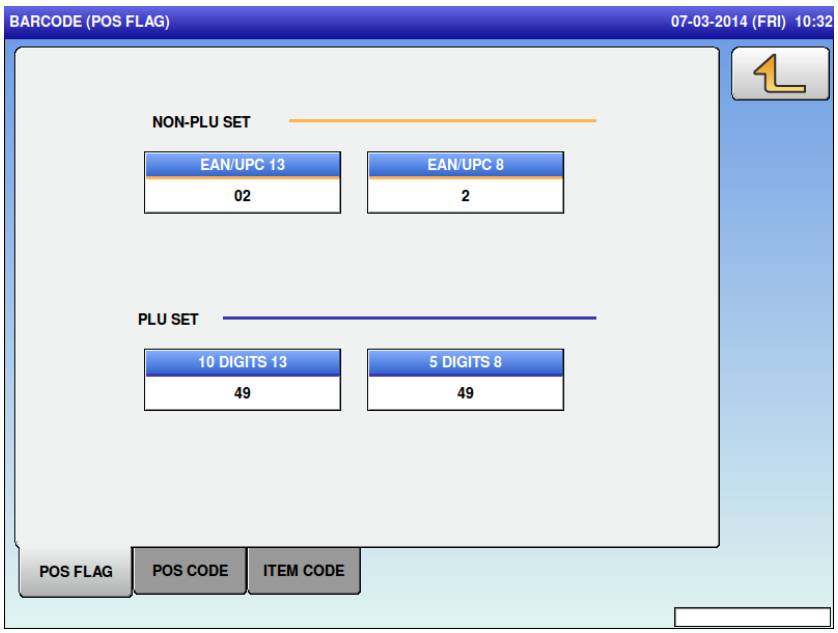
Menu name	Specification
UNIT ADD	Add the unit. The header unit also increases by one at the same time.

4.10.4 LABEL FORMAT / DETAIL (PREVIEW)

Menu name	Specification
DETAILED IMAGE /WHOLE IMAGE	Select the whole image or detailed image.
FEED	Feed the label.
PRINT	Perform test printing by the format called and the item information set by PLU No.
NORMAL	Set the label type to display. NORMAL / BARCODE / INGREDIENT / INGR.+BAR / SUBTOTAL / TOTAL
←↑→↓	Move the image. This function is enabled only for the detailed image.

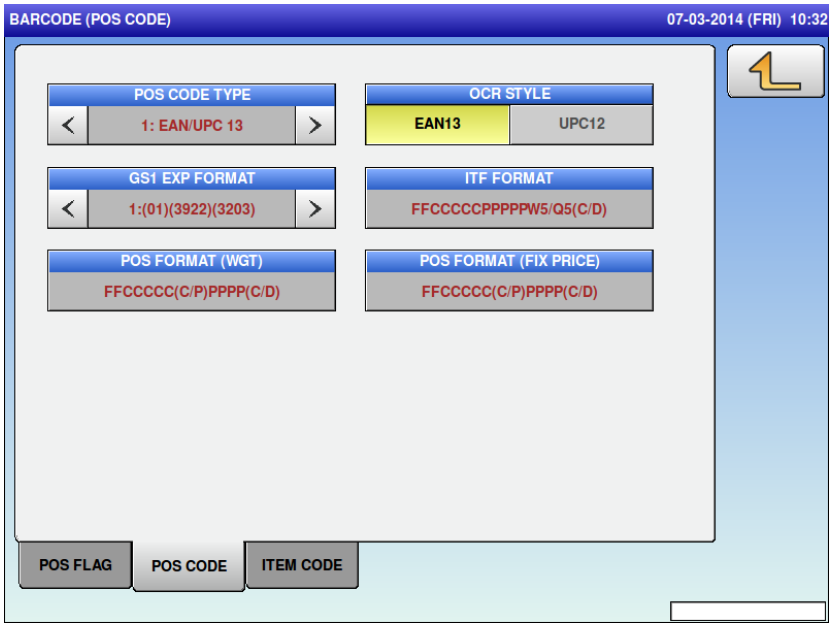
4.11 BARCODE

4.11.1 BARCODE (POS FLAG)



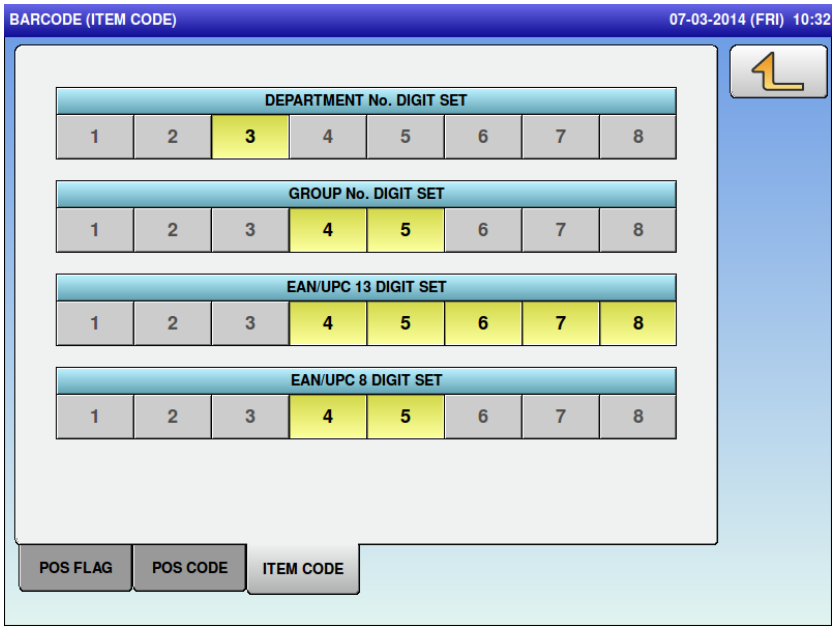
Menu name	Specification
EAN/UPC 13	Set the NON-PLU 13 digits. Input range: 00 to 99
EAN/UPC 8	Set the NON-PLU 13 digits. Input range: 0 to 9
10 DIGITS 13	Set the PLU 13 digits. Input range: 00 to 99
5 DIGITS 8	Set the PLU 8 digits. Input range: 00 to 99

4.11.2 BARCODE(POS CODE)



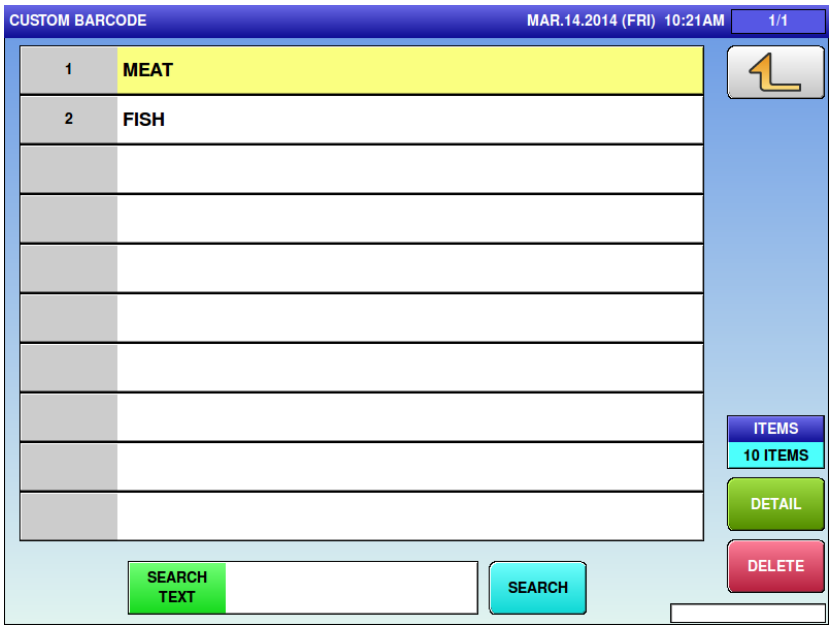
Menu name	Specification
POS CODE TYPE	Select the POS code type. 1:EAN/UPC13 2:EAN/UPC 8/3:10 DIGITS 13/4:5DIGITS 8/5:GS1 6:GS1 ST/7:GS1 STO/8:GS1 LIMITED/9:GS1 EXPANDED/10:ITF
OCR	Select the POS code type. 1:EAN/UPC13 2:EAN/UPC 8/3:10 DIGITS 13/4:5DIGITS 8/5:GS1 6:GS1 ST/7:GS1 STO/8:GS1 LIMITED/9:GS1 EXPANDED/10:ITF
GS1 EXP FORMAT	Select the GS1 EXP format. 1:(01)(3922)(3203) / 2:(01)(3922)(3203)(15)
ITF FORMAT	Set the format when POS CODE TYPE is [ITF].
POS FORMAT(WGT)	Select the POS format (weight). Touch the button to open the POS FORMAT list. Select the format from the list.
POS FORMAT (FIX PRICE)	Select the POS format (fix price). Touch the button to open the POS FORMAT list. Select the format from the list.

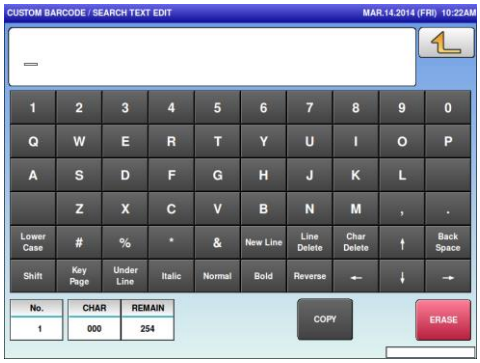
4.11.3 BARCODE (ITEM CODE)



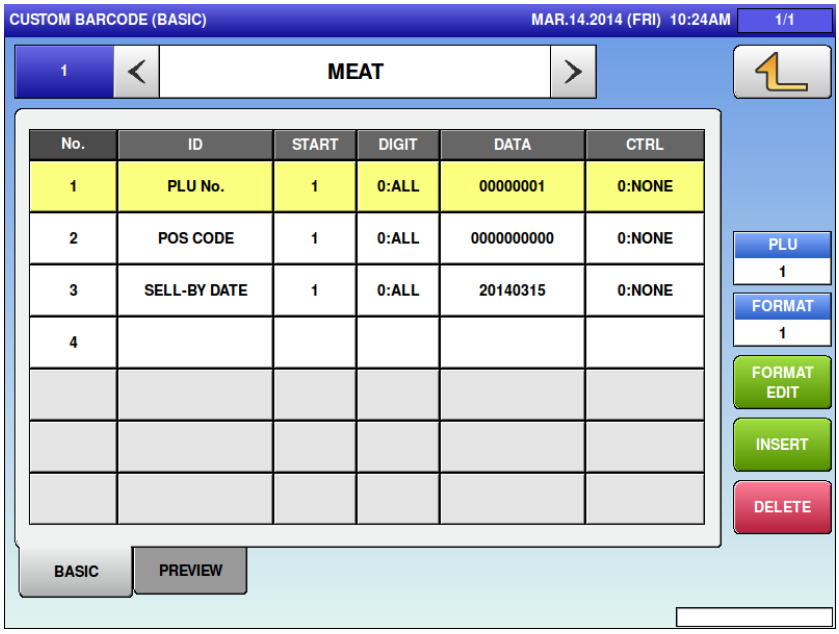
Menu name	Specification
DEPARTMENT No. DIGIT SET	Execute the digit set of department No. Press the numerical number to switch the selection. Press the numerical number in series. (e.g. The combination of "1" and "3" cannot be selected. The combination of "1", "2" and "3" can be selected.)
GROUP No. DIGIT SET	Execute the digit set of group No. Press the numerical number to switch the selection. Press the numerical number in series. (e.g. The combination of "1" and "3" cannot be selected. The combination of "1", "2" and "3" can be selected.)
EAN/UPC 13 DIGIT SET	Execute the digit set of JAN code (13 digits). Press the numerical number to switch the selection. Press the numerical number in series. (e.g. The combination of "1" and "3" cannot be selected. The combination of "1", "2" and "3" can be selected.)
EAN/UPC 8 DIGIT SET	Execute the digit set of JAN code (8 digits). Press the numerical number to switch the selection. Press the numerical number in series. (e.g. The combination of "1" and "3" cannot be selected. The combination of "1", "2" and "3" can be selected.)

4.12 CUSTOM BARCODE



Menu name	Specification
ITEMS	Switch the display items between ”10 items” and ”20 items”.
DETAIL	Move to the CUSTOM BARCODE (BASIC) screen, and display the details of custom bar code in selection.
DELETE	Delete the selected line.
SEARCH TEXT	Move to the CUSTOM BARCODE / SEARCH TEXT EDIT screen. 
SEARCH	Switch the search condition between [SEARCH] and [CANCEL]. SEARCH: Display data including [SEARCH TEXT] in a list. CANCEL: Display all the data in a list.

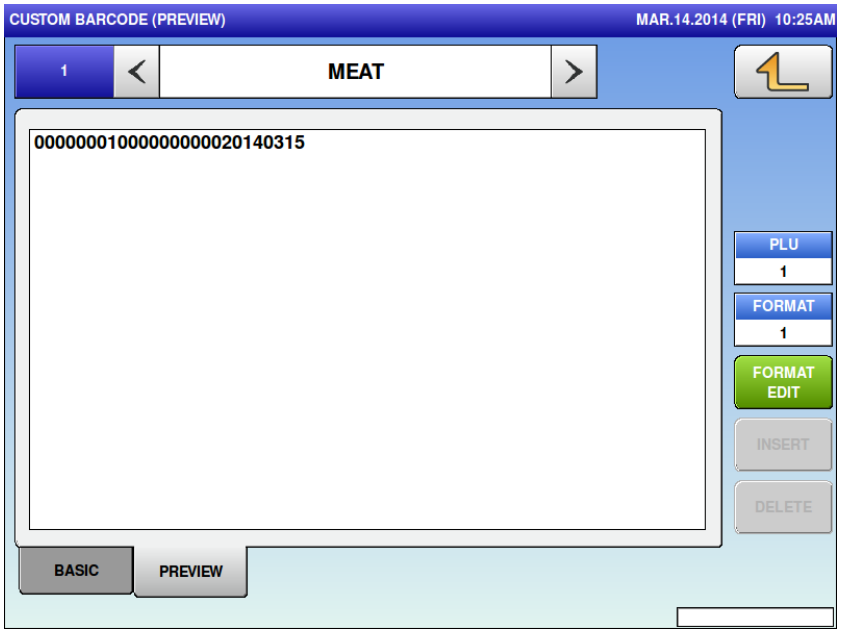
4.12.1 CUSTOM BARCODE (BASIC)



Menu name	Specification
PLU	Set the item No. to be used for the preview. Input range: 1 to 99999999 Other tabs also have the same function.
FORMAT	Input range: 1 to 999 Other tabs also have the same function.
FORMAT EDIT	Open the format edit screen. Other tabs also have the same function.
INSERT	Insert the blank line in front of selected line.
DELETE	Delete the selected line.
No.	Touch the button to switch the selection.
ID	Set the ID to be combined. Touch the button to open the CUSTOM BARCODE ID LIST. Select the ID from the list.
START	Set the start digit. Input range: 1 to 999
DIGIT	Set the digit number. 0:ALL or 1 to 999
DATA	Display the set ID data. Touch the button to open the edit screen only when the ID is set to PRE PRINT.

Menu name	Specification
CTRL	Select the control character. 0: NONE 1: ()

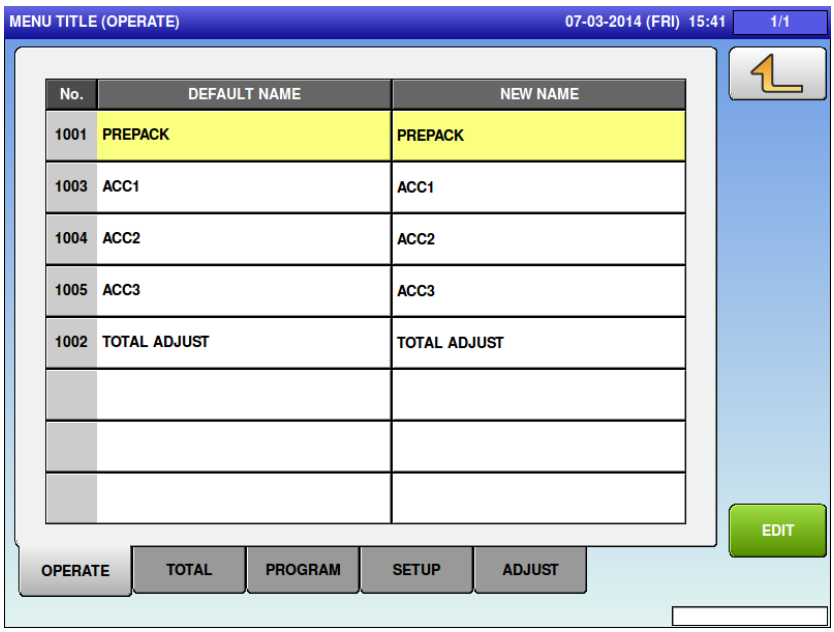
4.12.2 CUSTOM BARCODE (PREVIEW)



Menu name	Specification
The combined-barcode preview is displayed only.	

4.13 MENU TITLE

4.13.1 MENU TITLE (OPERATE)

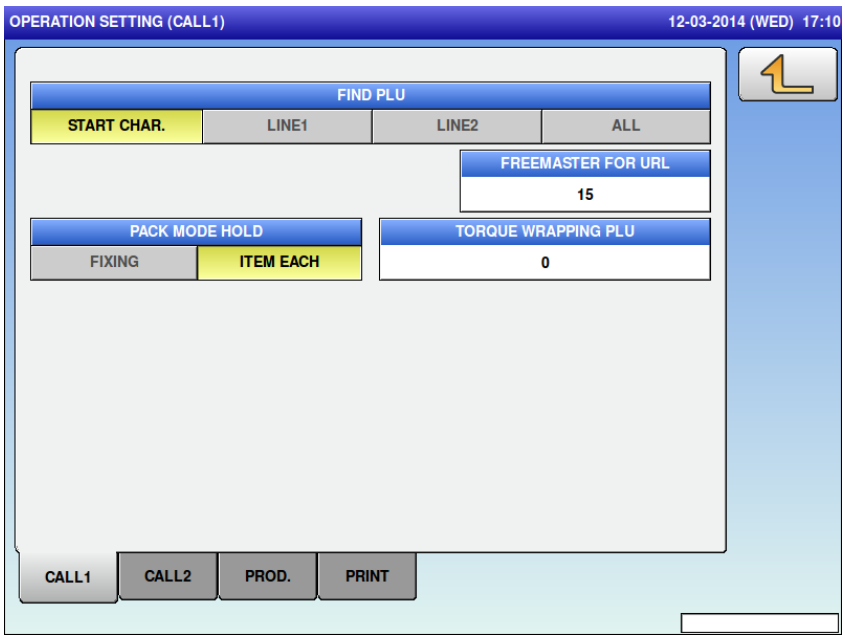


Menu name	Specification
DEFAULT NAME	Display the menu name before editing. Touch the button to select the menu name.
NEW NAME	Display the menu name after editing. Touch the button to select the menu name.
EDIT	Transfer to the edit screen of the selected menu name.

(All tabs have the same operations so their explanations are omitted here.)

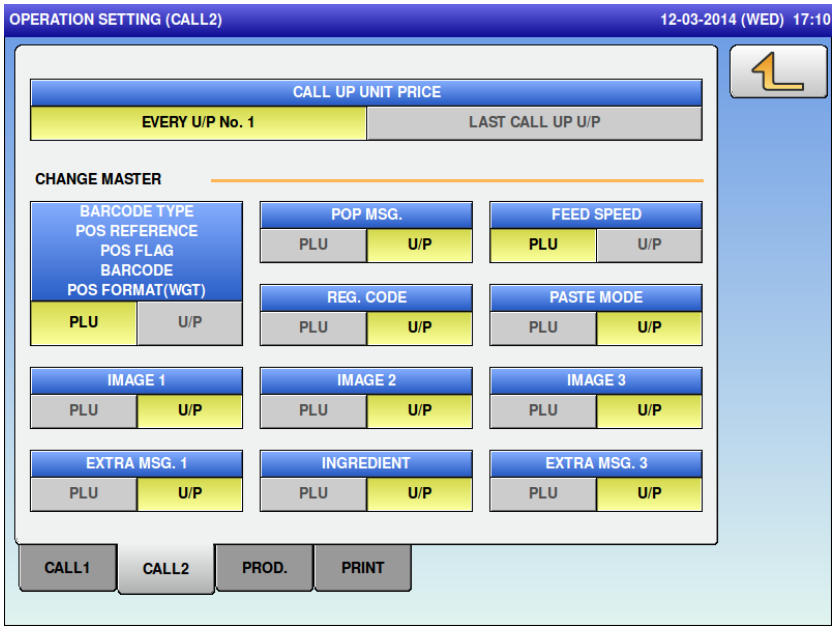
4.14 OPERATION SETTING

4.14.1 OPERATION SETTING (CALL1)



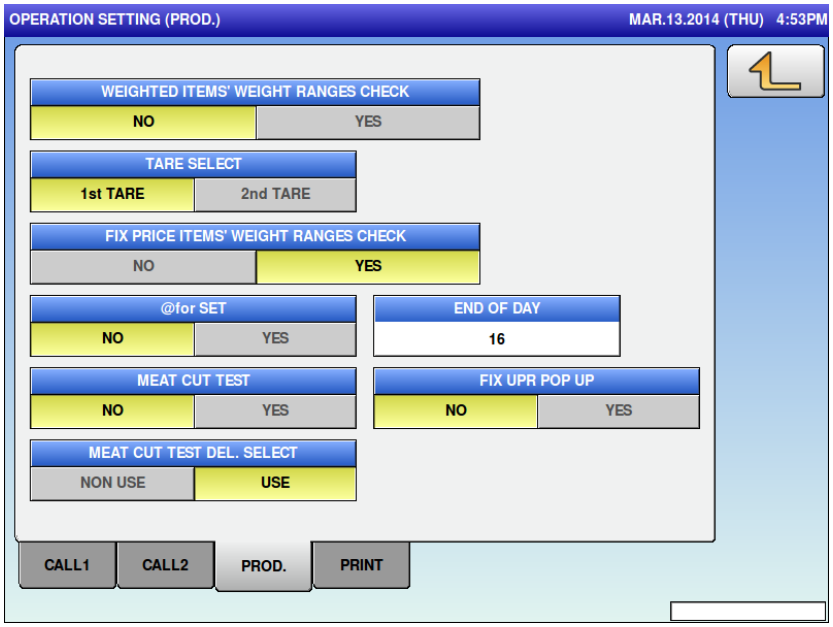
Menu name	Specification
FIND PLU	Select how to search PLU. START CHAR. / LINE1 / LINE2 / ALL
FREEMASTER FOR URL	Set the freemaster No. to use in the URL. Input range: 0 to 15
PACK MODE HOLD	Select the PACK mode between “fixed to scale” or “set by item”. FIXING / ITEM EACH
TORQUE WRAPPING PLU	Set the PLU No. to be used in the torque wrapping. Input range: 0 to 99999999

4.14.2 OPERATION SETTING (CALL2)



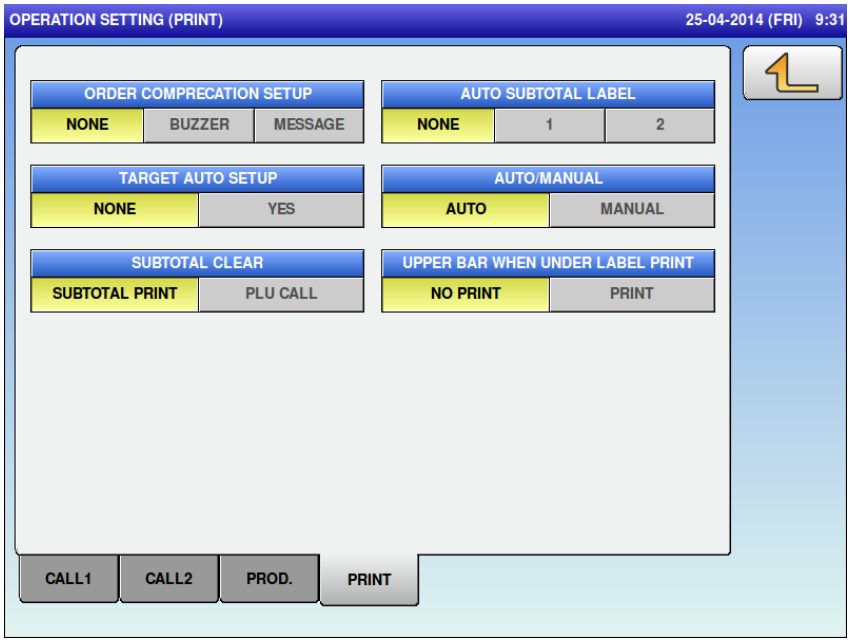
Menu name	Specification
CALL UP UNIT PRICE	Select and set the unit price to be set in the PLU calling. EVERY U/P No.1: 1 is selected for the unit price. LAST CALL UP U/P: the unit No. used latest is selected.
CHANGE MASTER	Select and set the method to be used for each item. PLU: Data permanently set to unit 1 is used. U/P: Data set for each unit is used.

4.14.3 OPERATION SETTING (PROD.)



Menu name	Specification
WEIGHED ITEMS'WEIGHT RANGES CHECK	Select whether or not to check the weight of weighed items. NO / YES
TARE SELECT	Select the tare. 1st TARE / 2nd Tare
FIX PRICE ITEMS' WEIGHT RANGES CHECK	Select whether or not to check the weight of fixed-price product. NO / YES
@for SET	Select and set whether to perform @for calculation (for the fixed price item using “× (MULTI)” key) . *Settable only when the country is set to [USA] NO / YES
END OF DAY	Set the time valid for the next day process set for PLU. Input range: 0 to 23
MEAT CUT TEST	Select and set whether to use the Meat Cut Weight Control mode. NO / YES
FIX UPR POP UP	In calling the fixed price item, select and set whether to display the popup display for fixed weight setting. NO / YES
MEAT CUT TEST DEL. SELECT	Select and set whether to use the DELETE button in the Meat Cut Master Setting screen. NON USE / USE

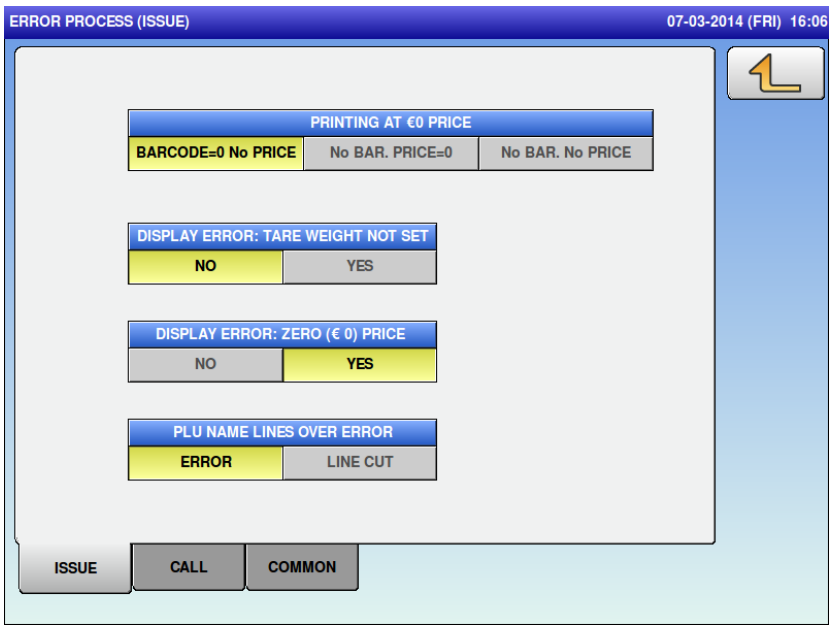
4.14.4 OPERATION SETTING (PRINT.)



Menu name	Specification
ORDER COMPRECATION SETUP	Select and set the operation when the order is completed. NONE / BUZZER / MESSAGE
AUTO SUBTOTAL LABEL	Select printing of the automatic subtotal label. NONE: Printing is not performed. 1: 1 sheet of subtotal label is printed. 2: 2 sheets of subtotal label are printed. Settable only when the order completion operation selects [MESSAGE].
TARGET AUTO SETUP	Selecting YES sets the same target No. when the target No. setting is completed.
SUBTOTAL CLEAR	Select and set the clear timing of the subtotal data. SUBTOTAL PRINT: Cleared when the subtotal is printed PLU CALL: Cleared when the item is called
AUTO/MANUAL	Select and set the initial value of [PRN MD.] when the screen is moved to OPERATE MODE.
UPPER BAR WHEN UNDER LABEL PRINT	Select and select whether to print the barcode of the 1st LABEL when the 2nd LABEL is printed.

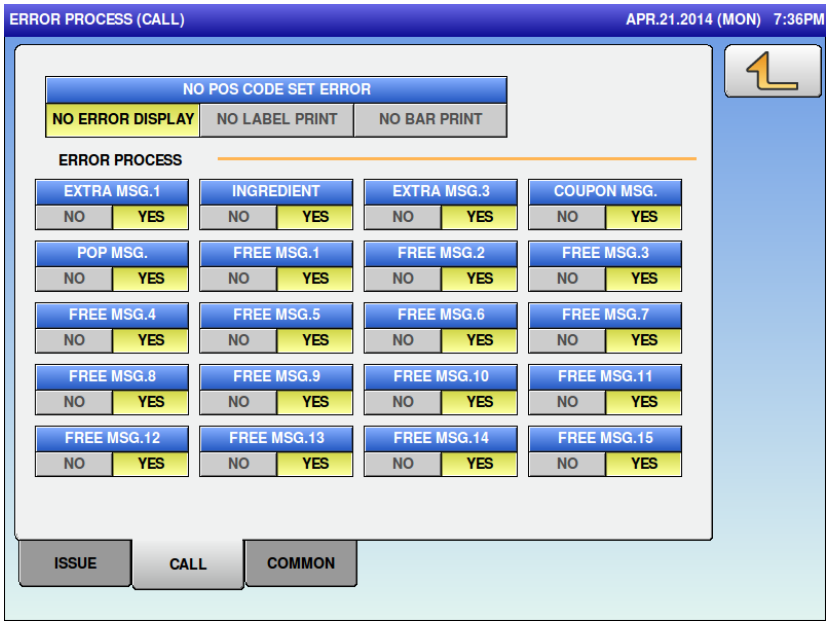
4.15 ERROR PROCESS

4.15.1 ERROR PROCESS (ISSUE)



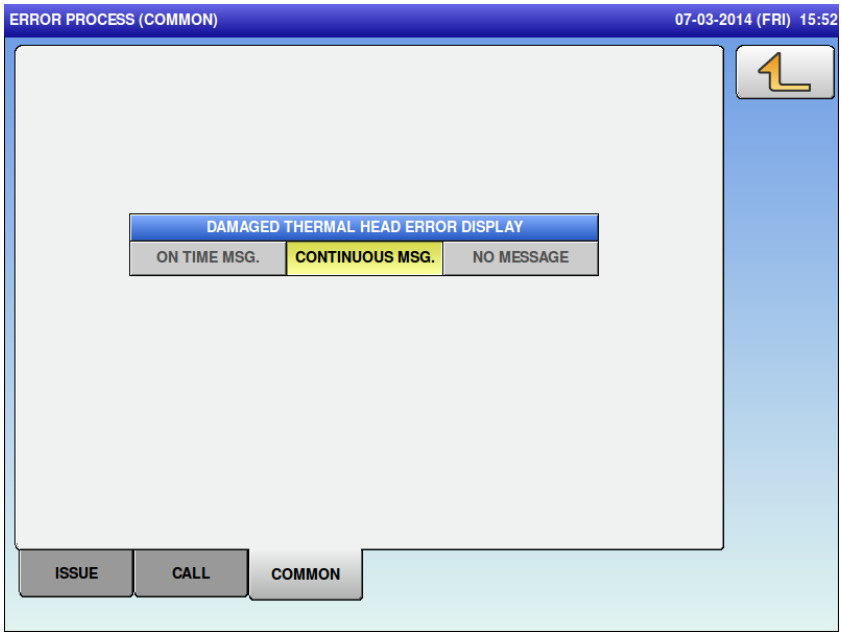
Menu name	Specification
PRINTING AT 0 PRICE	Select the action of printing at 0. BARCODE=0 No PRICE / No BAR.PRICE=0 / No BAR. No PRICE The currency unit depends on the country master.
DISPLAY ERROR: TARE WEIGHT NOT SET	Select whether or not to display the error message when the tare weight is not set. NO / YES
DISPLAY ERROR: ZERO PRICE	Select whether or not to display the error message of 0 price. NO / YES
PLU NAME LINES OVER ERROR	Select and set the process when the item line No. is over the set number. ERROR: Display the LINE OVER error, and no item is printed. LINE CUT: Cut the exceeded line, and the item is printed within the display range.

4.15.2 ERROR PROCESS (CALL)



Menu name	Specification
NO POS CODE SET ERROR	Select the action when the POS code is not set. NO ERROR DISPLAY / NO LABEL PRINT / NO BAR PRINT
ERROR PROCESS	Set the error display operation when the link master at item calling does not exist. NO / YES

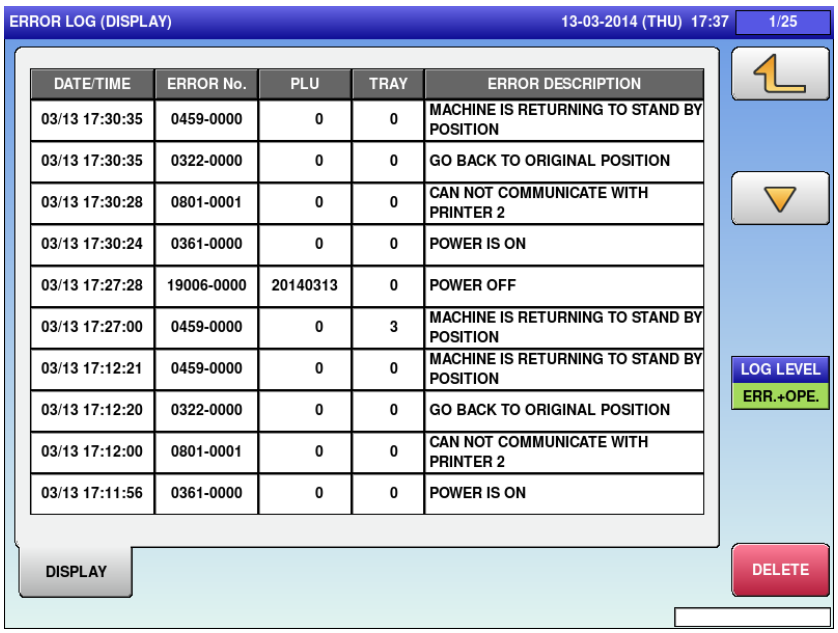
4.15.3 ERROR PROCESS (COMMON)



Menu name	Specification
DAMAGED THERMAL HEAD ERROR DISPLAY	Select how to set the error message of damaged thermal head. ON TIME MSG / CONTINUOUS MSG / NO MESSAGE

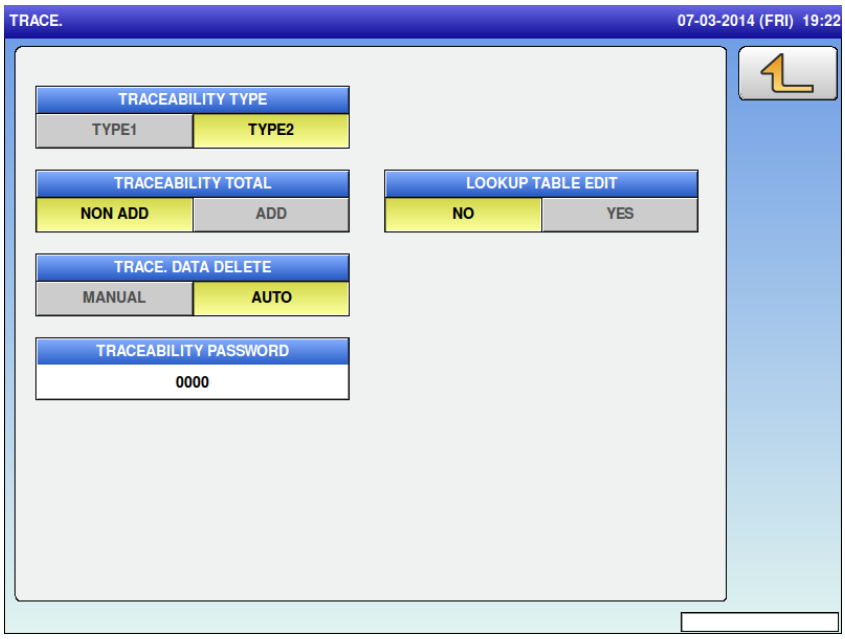
4.16 ERROR LOG

4.16.1 ERROR LOG (DISPLAY)



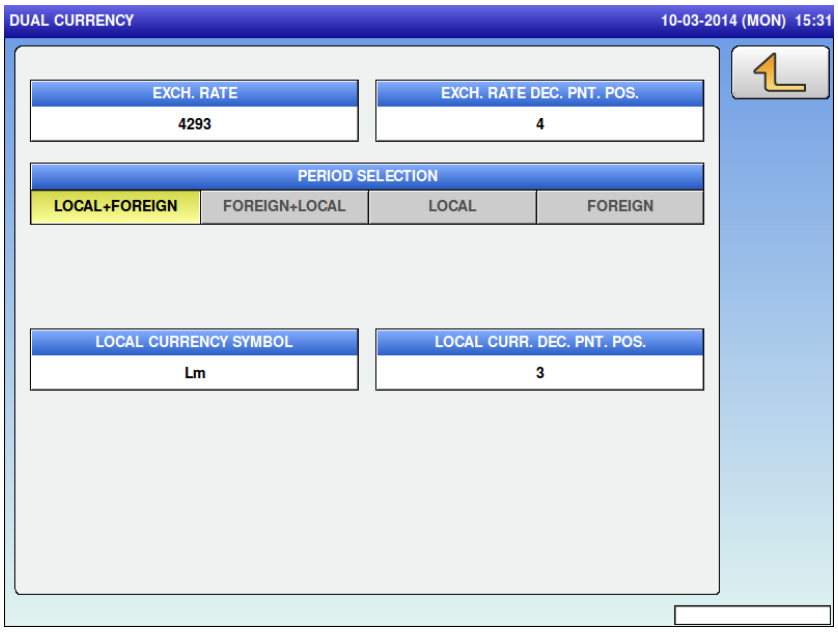
Menu name	Specification
LOG LEVEL	Select the error log level to be displayed on the list. ONLY ERR. / ERR.+OPE.
DELETE	Delete the error log. The DELETE CHECK dialog appears to ask whether to delete the error log.

4.17 TRACE.



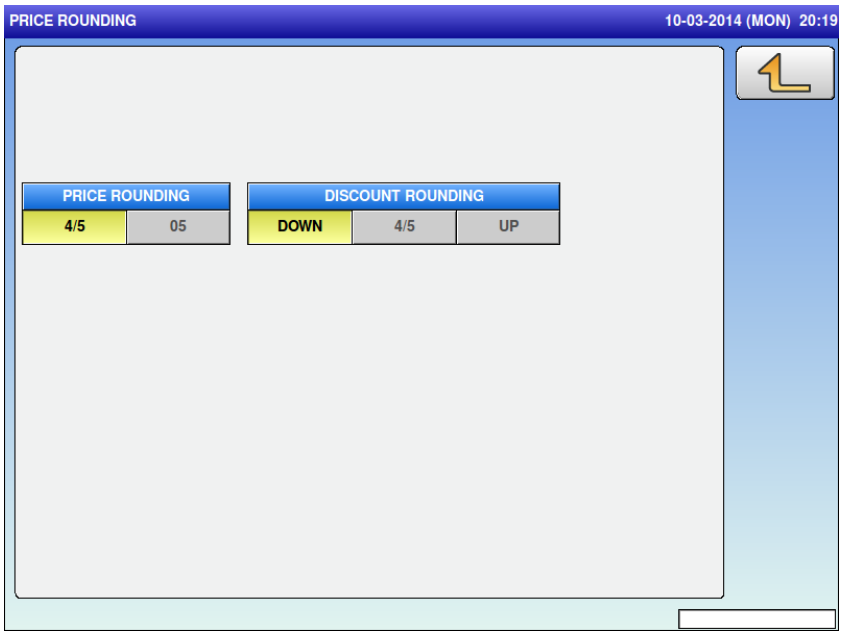
Menu name	Specification
TRACEABILITY TYPE	Select the traceability type. TYPE1 / TYPE2 (TYPE1 is simple traceability.)
TRACEABILITY TOTAL	Select whether or not to add the traceability total. NO / YES
TRACE. DATA DELETE	Select the manual or auto deletion of traceability data. MANUAL / AUTO
TRACEABILITY PASSWORD	Set the traceability password. This function is enabled when [TYPE2] is selected in the TRACEABILITY TYPE. 0 or 4-digit number
LOOKUP TABLE EDIT	Select whether or not to enable the lookup table edit on the traceability screen in the normal mode. NO / YES

4.18 DUAL CURRENCY



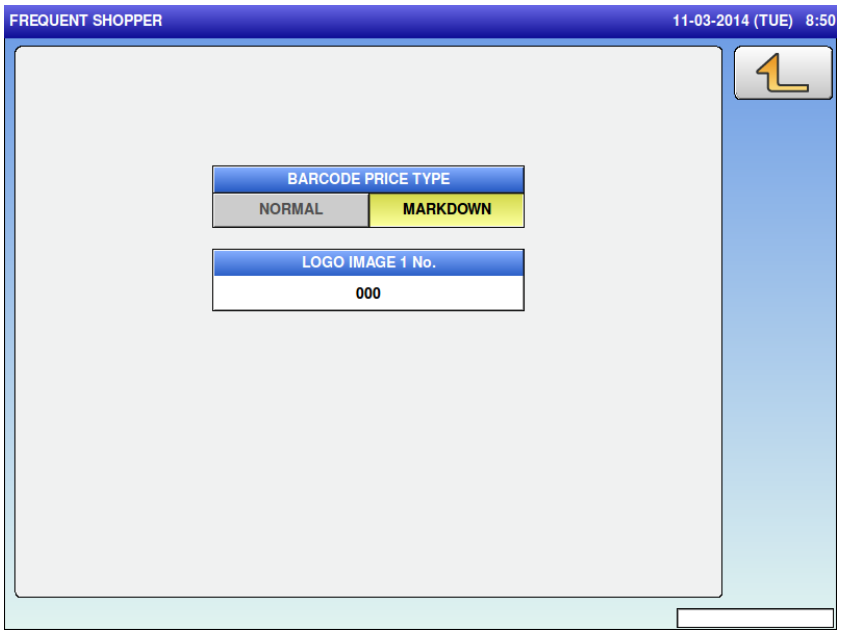
Menu name	Specification
EXCH. RATE	Set the exchange rate of the second currency. Input range: 0 to 99999999
EXCH. RATE DEC. PNT. POS.	Set the decimal point position of the exchange rate of the second currency. Input range: 0 to 7
PERIOD SELECTION	Select the currency combination. LOCAL+FOREIGN/FOREIGN+LOCAL/LOCAL/FOREIGN
LOCAL CURRENCY SYMBOL	Set the local currency symbol. Up to 3 bytes
LOCAL CURR. DEC. PNT. POS.	Set the decimal point position of the local currency. Input range: 0 to 7

4.19 PRICE ROUNDING



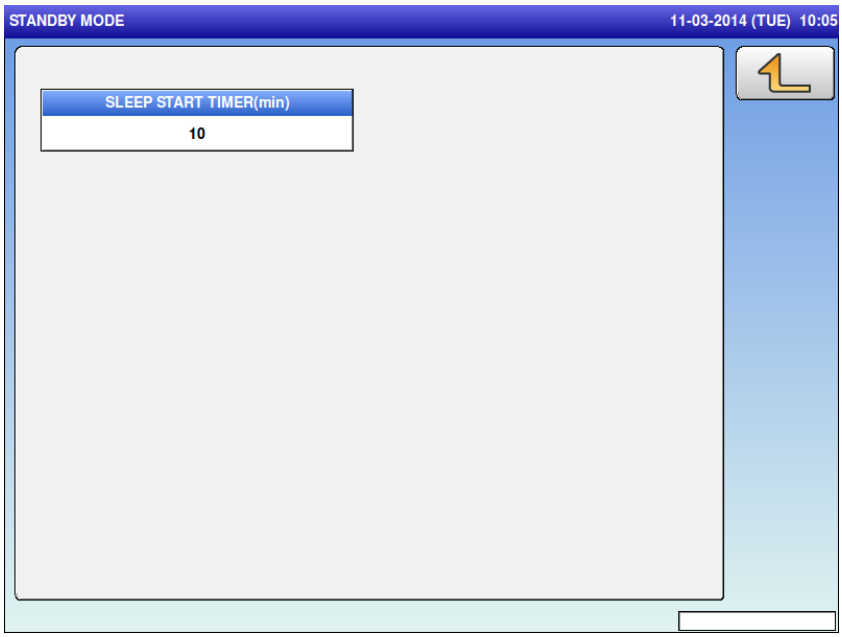
Menu name	Specification
PRICE ROUNDING	Select the price rounding type. 4/5 / 05
DISCOUNT ROUNDING	Select the discount rounding type. DOWN / 4/5 / UP

4.20 FREQUENT SHOPPER



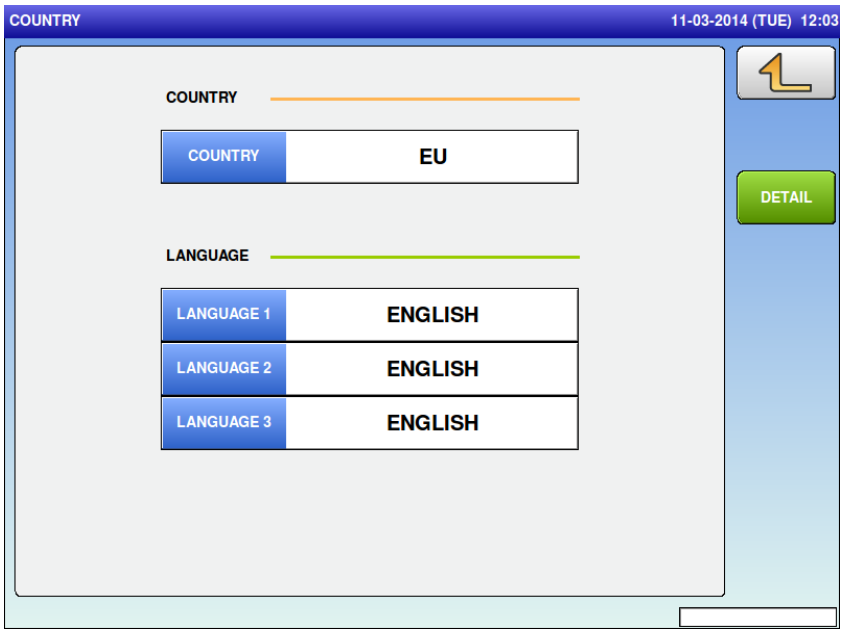
Menu name	Specification
BARCODE PRICE TYPE	Select the barcode price type. NORMAL / MARKDOWN
LOGO IMAGE 1 No.	Set the logo image 1 No. Input range: 0 to 999

4.21 STANDBY MODE



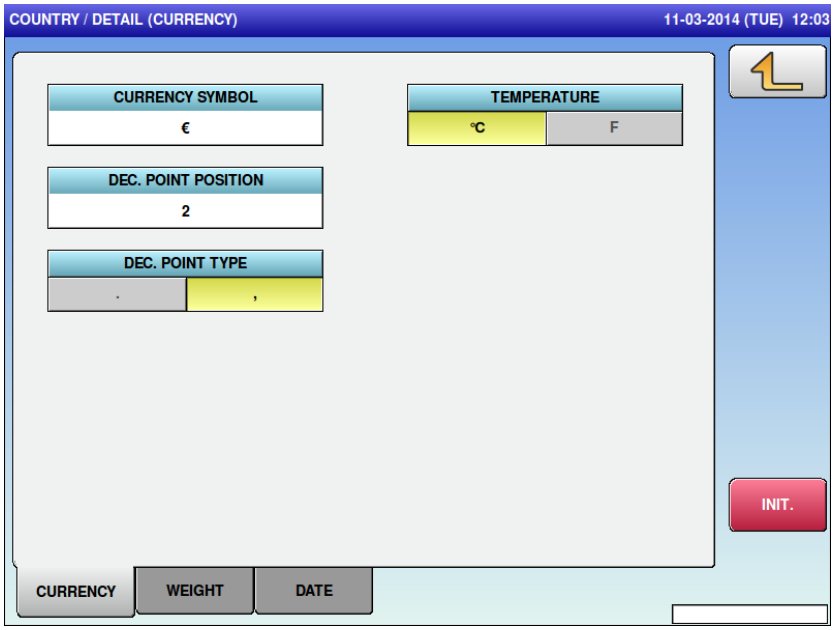
Menu name	Specification
SLEEP START TIMER(min)	Set the time to standby mode. The unit is in minutes.

4.22 COUNTRY



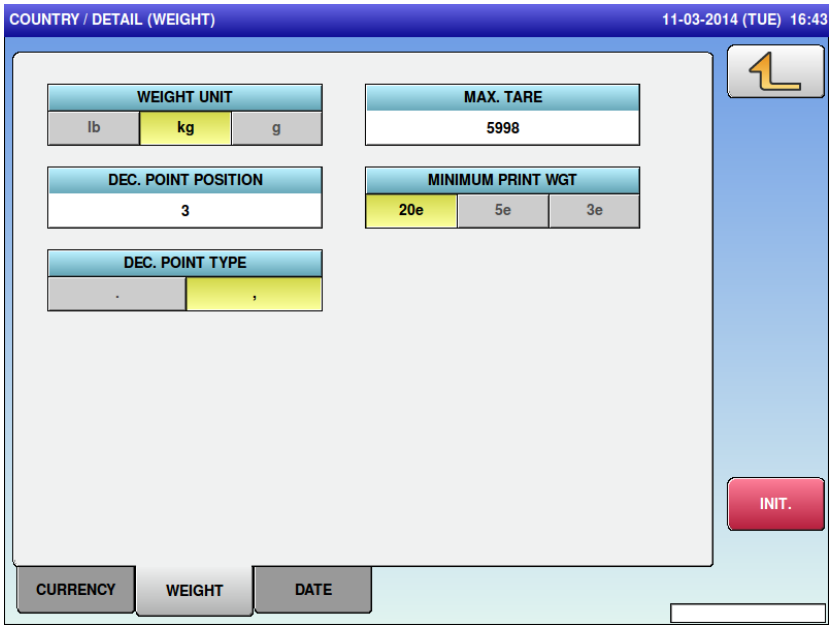
Menu name	Specification
COUNTRY	Select the country. Enter 951753 and press PLU to enable this function. Touch the COUNTRY button to open the list and select the country.
LANGUAGE	Set the first to third language. Touch the button to open the list and select the language.
DETAIL	Transfer to the country setting details screen. Enter 495344 and press PLU to open the screen.

4.22.1 COUNTRY / DETAIL (CURRENCY)



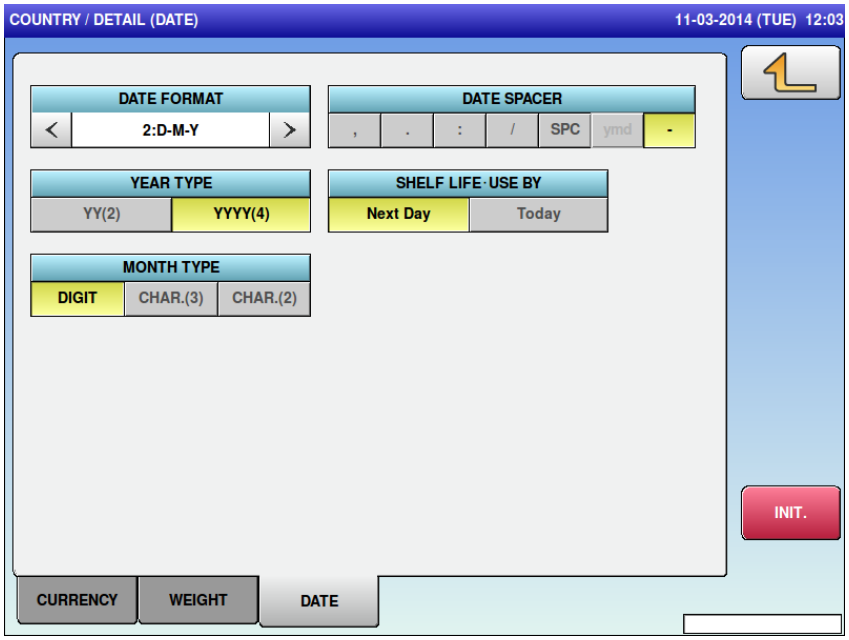
Menu name	Specification
CURRENCY SYMBOL	Set the currency symbol. Up to 3 bytes
DEC. POINT POSITION	Set the decimal point position of currency. Input range: 0 to 7
DEC. POINT TYPE	Select the decimal point type. . / , (dot / comma)
TEMPERATURE	Select and set the temperature unit. ºC / F
INIT.	Initialize the set value of country master. Other tabs also have the same function.

4.22.2 COUNTRY / DETAIL (WEIGHT)



Menu name	Specification
WEIGHT UNIT	Select the weight unit. Lb / kg / g Enter 14789632 and press PLU to enable this function.
MAX. TARE	Set the maximum tare. For the unit of kg or g: 0 to 5998 For the unit of lb: 0 to 9990 Enter 14789632 and press PLU to enable this function.
DEC. POINT POSITION	Set the decimal point position. Input range: 1 to 5 Enter 495344 and press PLU to enable this function.
DEC. POINT TYPE	Select the decimal point type. . / ,（dot / comma） Enter 495344 and press PLU to enable this function.
MINIMUM PRINT WGT	Set the minimum print weight. 20e / 5e / 3e Enter 495344 and press PLU to enable this function. This function is enabled only for the manual print.
INIT.	Initialize the set value of country master. Other tabs also have the same function.

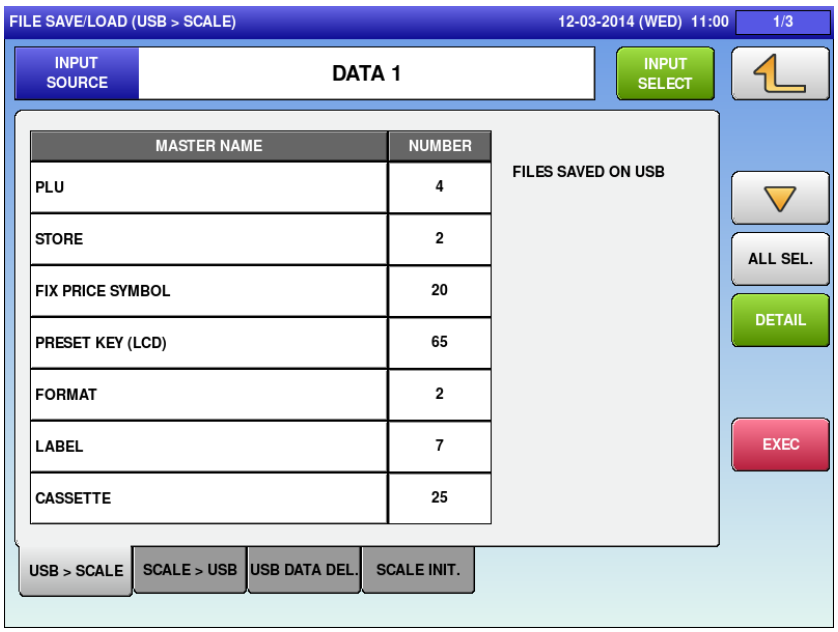
4.22.3 COUNTRY / DETAIL (DATE)



Menu name	Specification
DATE FORMAT	Select the date format (order). 0:Y-M-D / 1:M-D-Y / 2:D-M-Y
YEAR TYPE	Select the year type. YY(2) / YYYY(4) Last 2 or 4 digits
MONTH TYPE	Select the month type. DIGIT / CHAR(3) / CHAR(2) Numerical number, three characters or two characters
DATE SPACER	Select the date spacer. ,(comma) / .(period) / :(colon) / /(slash) / space / ymd / ・(middle point)
SHELF LIFE・USE BY	Select whether or not to set the shelf life "1" to the next day or today. Next Day / Today
INIT.	Initialize the set value of country master. Other tabs also have the same function.

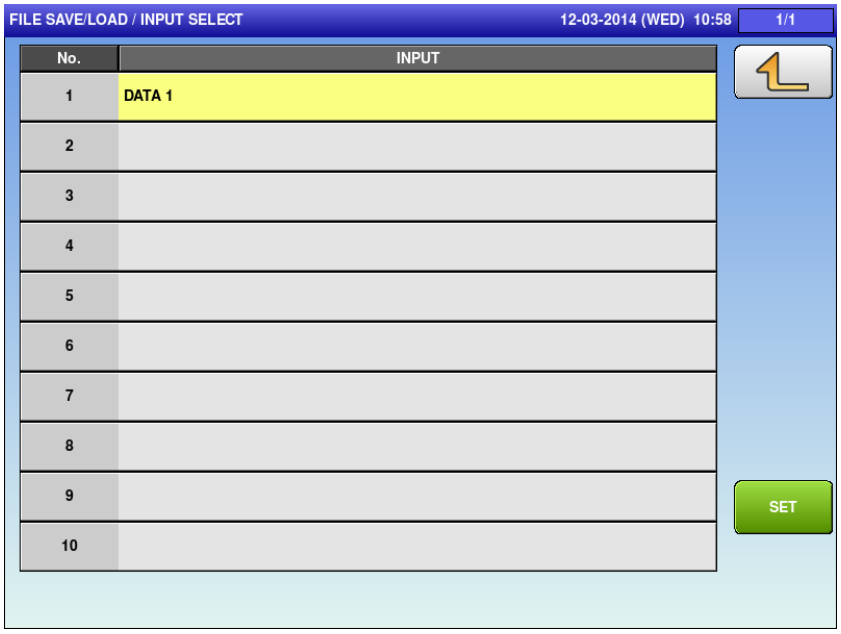
4.23 FILE SAVE /LOAD

4.23.1 FILE SAVE/LOAD (USB>SCALE)



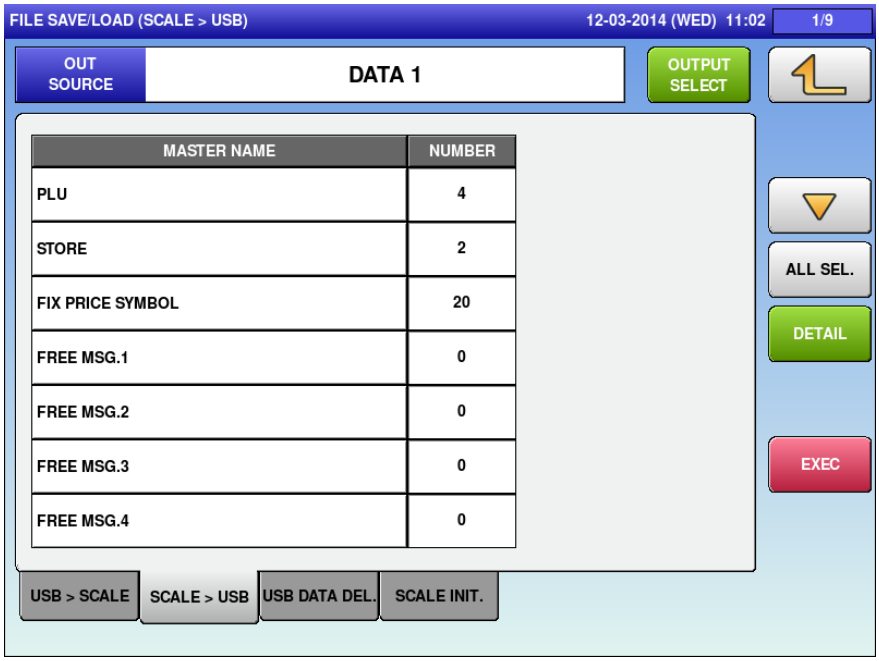
Menu name	Specification
INPUT SOURCE	Display the name of the input source.
INPUT SELECT	Open the FILE SAVE/LOAD IN SELECT screen. The input source is listed only when the files are saved on the USB flash drive.
MASTER NAME	Display the master name. Touch the button to change the selection. Other tabs also have the same function.
NUMBER	Display the number of master data. Other tabs also have the same function.
ALL SEL.	Change the selections of all masters. This function is enabled when the input source file is set. Other tabs also have the same function.
DETAIL	Open the FILE SAVE/LOAD OUT (DETAIL) screen. Other tabs also have the same function.
EXEC	Execute the file input of selected master. The INPUT CHECK dialog appears to ask whether to input the file.

■ FILE SAVE/LOAD / INPUT SELECT



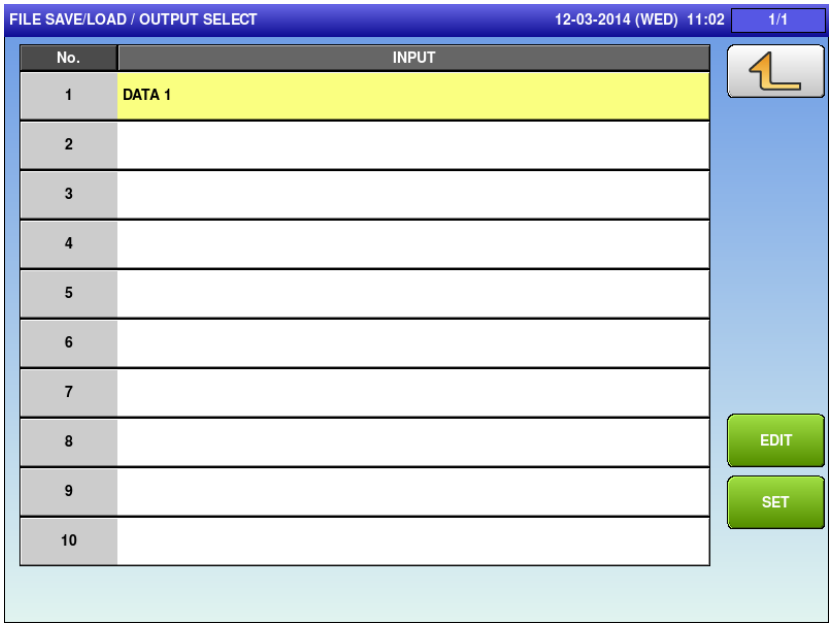
Menu name	Specification
No.	Display the folder No. memorized in the USB memory. Folder “Data01” to “Data10” = №1 to №10
INPUT	Display the data name (index name) named to each master file group ”Data01” to “Data10” memorized in the USB memory.
SET	Determine the input source selected, and return to the previous screen.

4.23.2 FILE SAVE/LOAD (SCALE>USB)



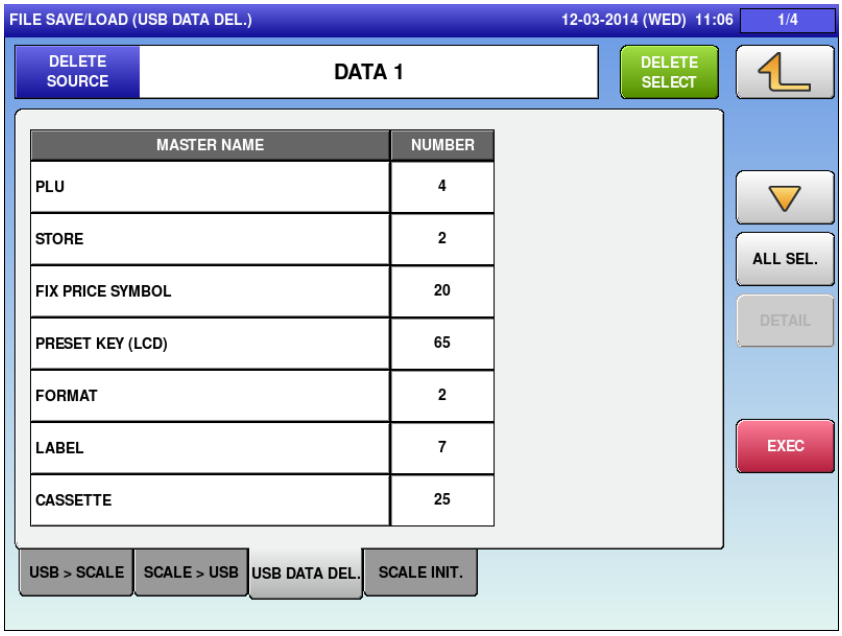
Menu name	Specification
OUT SOURCE	Display the name of the output source.
OUTPUT SELECT	Open the FILE SAVE/LOAD OUT SELECT screen. SET: Set the output source. EDIT: Edit the name of the output source.
ALL SEL.	Switch between “All items selected” / “All items unselected”.
DETAIL	Move to the FILE SAVE/LOAD / DETAIL screen.
EXEC	Execute the file output of selected master. The OUTPUT CHECK dialog appears to ask whether to output the file.

■ FILE SAVE/LOAD / OUTPUT SELECT



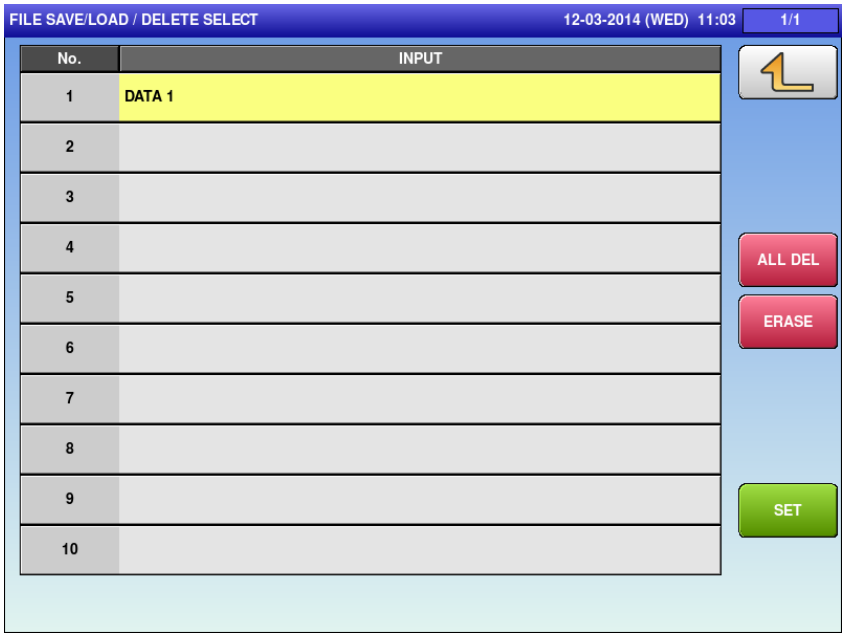
Menu name	Specification
No.	Display the folder No. displayed in the USB memory. Folder “Data01” to “Data10” = №1 to №10
INPUT	Display the data name (index name) named to each master file group ”Data01” to “Data10” memorized in the USB memory.
EDIT	Move to the FILE SAVE/LOAD / OUTPUT SELECT / EDIT INDEX NAME screen.
SET	Determine the input source selected, and return to the previous screen.

4.23.3 FILE SAVE/LOAD (USB DATA DEL.)



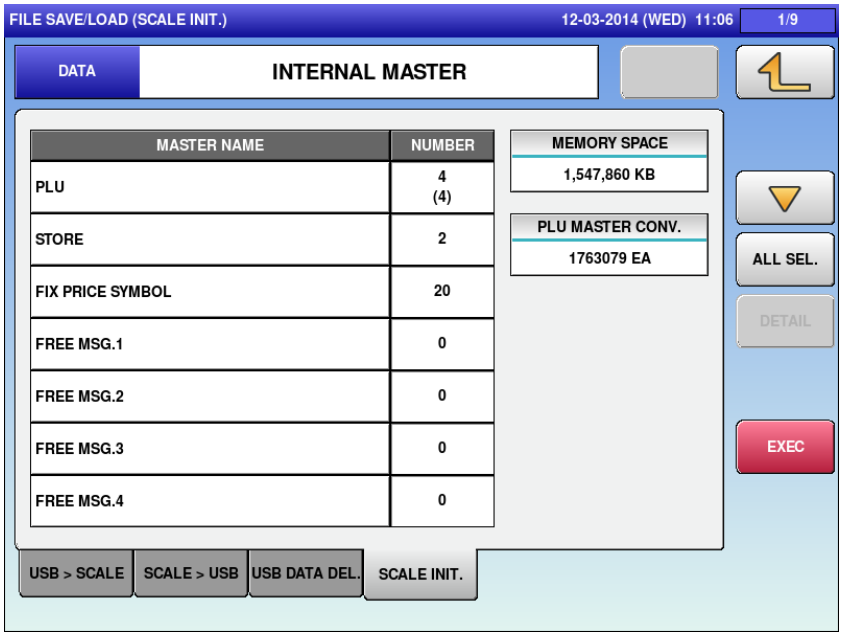
Menu name	Specification
DELETE SELECT	Display the name of the deletion source.
MASTER NAME	Display the master name of the file in the folder of USB memory specified as “Deletion destination”.
ALL SEL.	Switch between “All items selected” / “All items unselected”.
EXEC	Execute the file output of selected master. The OUTPUT CHECK dialog appears to ask whether to output the file.

■ FILE SAVE/LOAD / DELETE SELECT



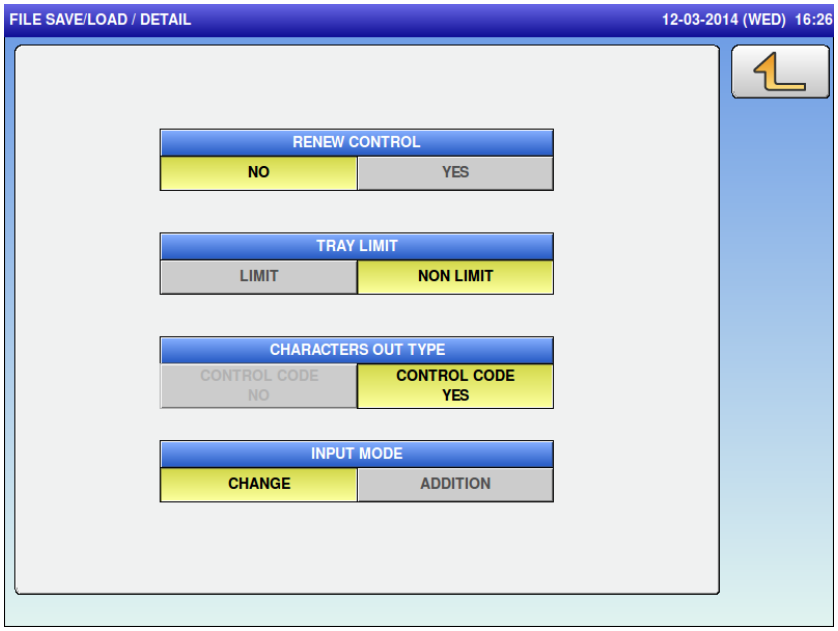
Menu name	Specification
No.	Display the folder No. memorized in the USB memory. Folder “Data01” to “Data10” = No.1 to No.10
INPUT	Display the data name (index name) named to each master file group ”Data01” to “Data10” memorized in the USB memory.
ALL DEL	Delete all the files in the USB memory (folders “Data01” to “Data10”).
ERASE	Delete all the files in the selected data folder.
SET	Determine the input source selected, and return to the previous screen.

4.23.4 FILE SAVE/LOAD (SCALE INIT.)



Menu name	Specification
DATA	Display the master name. Touch the button to change the selection.
MASTER NAME	Display the master name in the scale. Line selection/deselection is available.
NUMBER	Display the data No. of the master inside the scale.
MEMORY SPACE	Display the memory space inside the scale in kilobyte (kB).
PLU MASTER CONV.	Display the approximate value about how many items master can store in the free space.
ALL SEL.	Switch between “All items selected” / “All items unselected”.
EXEC	Initialize the selected master. The INITIALIZATION CHECK dialog appears to ask whether to initialize the master.

4.23.5 FILE SAVE/LOAD / DETAIL



Menu name	Specification
RENEW CONTROL	Select whether or not to control update. NO / YES
TRAY LIMIT	Select whether or not to limit the tray. LIMIT / NO LIMIT
CHARACTERS OUT TYPE	Select the characters output type. CONTROL CODE NO / CONTROL CODE YES [CONTROL CODE NO] cannot be selected.
INPUT MODE	Select the input mode. CHANGE / ADDITION

Chapter 5 Adjust Mode

5.1 Startup

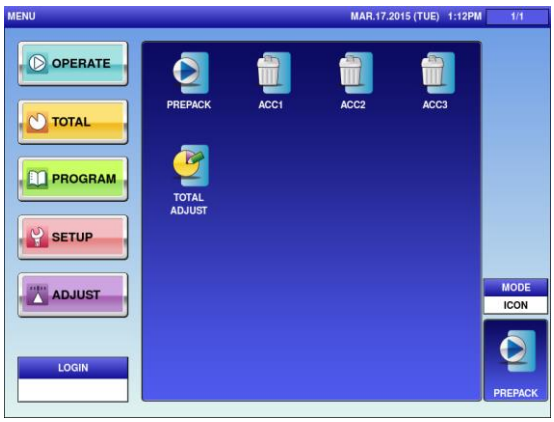
Turn on the power.

The PREPACK screen in the OPERATE mode appears.

Press at the upper right side of the screen.

The menu appears in the OPERATE MODE.

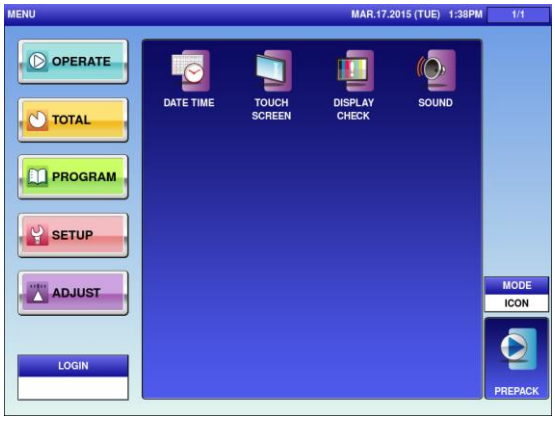
Press the [ADJUST] button on the screen.



The User Menu screen in the ADJUST mode appears.

Input the password “**495344”** using the numerical keys, and press the [LOGIN] button on the screen.

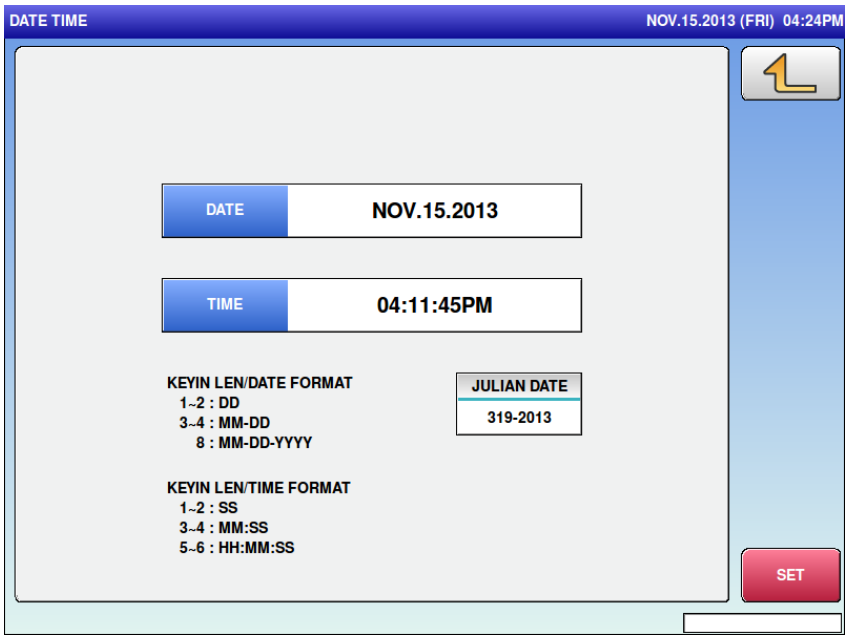
4 9 5 3 4 4

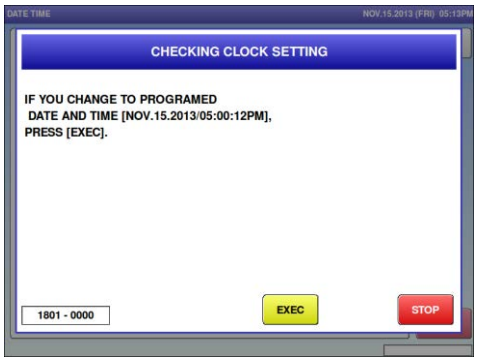


The Maintenance Menu screen appears in the ADJUST mode.

To log out, enter nothing or enter “0” and press the [LOGIN] button.

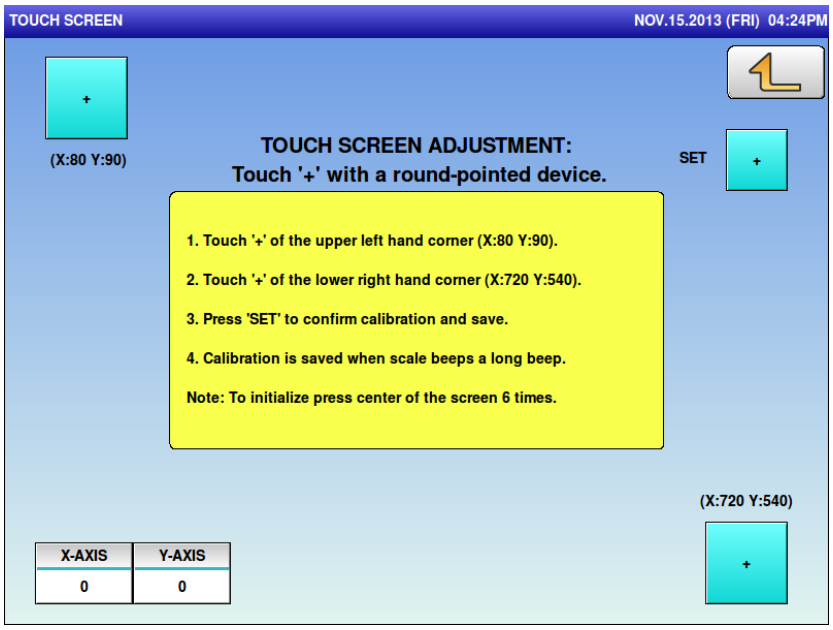
5.2 DATE TIME



Menu name	Specification
	Return to Menu. When any change is made, save the setting (with confirmation message). 
DATE	Enter the date conforming to KEYIN LEN/DATE FORMAT. If "21022013" is entered, "21-02-2013" is displayed. If "20" is entered, "20-02-2013" is displayed. If "2003" is entered, "20-03-2013" is displayed.
TIME	Enter the time conforming to KEYIN LEN/TIME FORMAT. If "00" is entered, "17:53:00" is displayed. If "2000" is entered, "17:20:00" is displayed. If "152000" is entered, "15:20:00" is displayed.
JULIAN DATE	Display the number of days counted from January 1.
TIME ZONE	Set the time zone. When pressing this button without numeric value, the time zone list is displayed according to country setting. When pressing it with 495344 entered, the entire time zone list is displayed.

SET	Set the entered date and time. The CHECKING CLOCK SETTING dialog appears to ask whether to change the date and time.

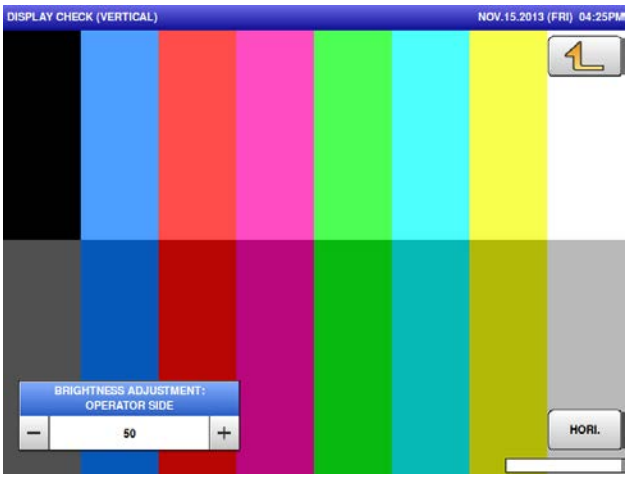
5.3 TOUCH SCREEN



Menu name	Specification
For initialization of touch panel, press center of the screen 6 times.	

5.4 DISPLAY CHECK

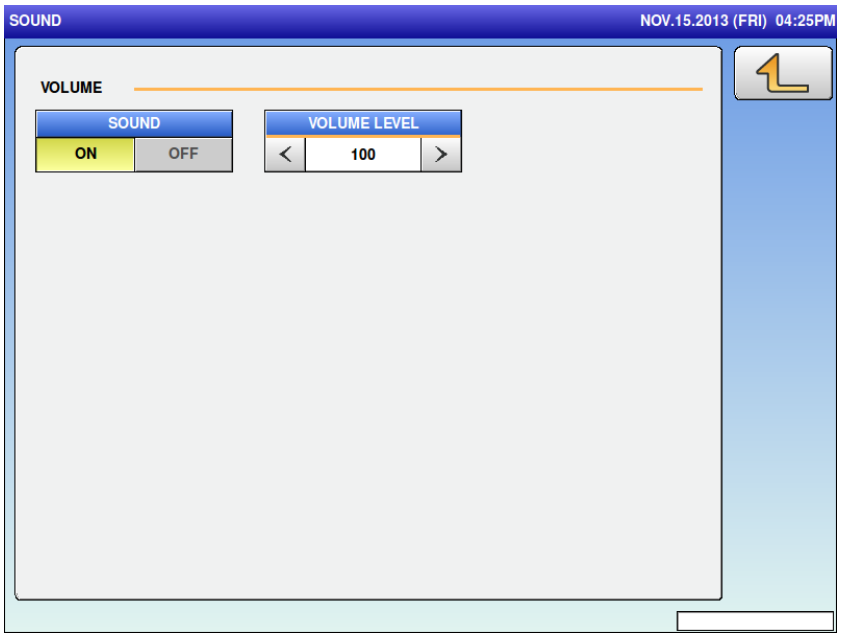
●HORIZONTAL screen



●VERTICAL screen

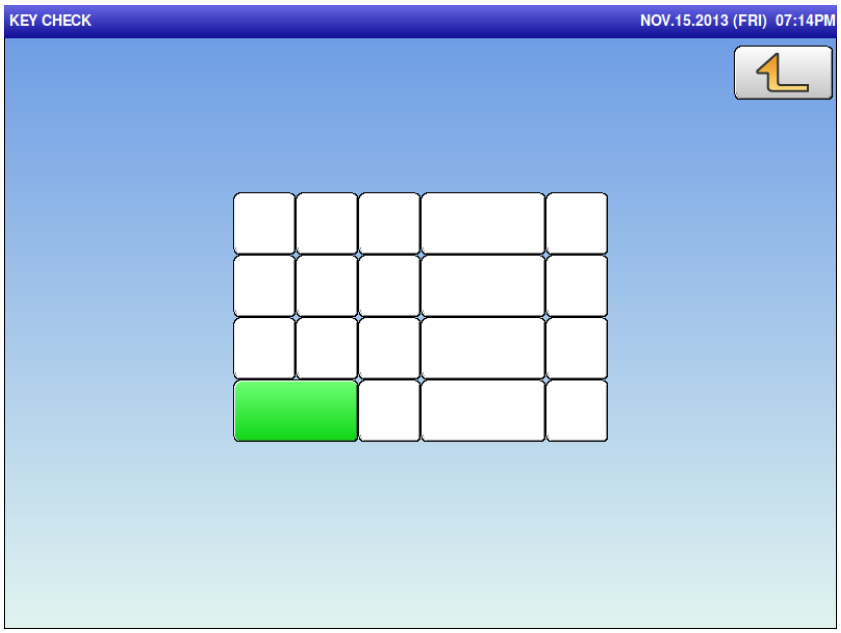
Menu name	Specification
BRIGHTNESS ADJUSTMENT: CUSTOMER SIDE	Adjust the brightness of customer-side display. Input range: 0 to 100
BRIGHTNESS ADJUSTMENT: OPERATOR SIDE	Adjust the brightness of operator-side display. Input range: 0 to 100
VERT. / HORI.	Switch between the vertical and horizontal screen display.

5.5 SOUND



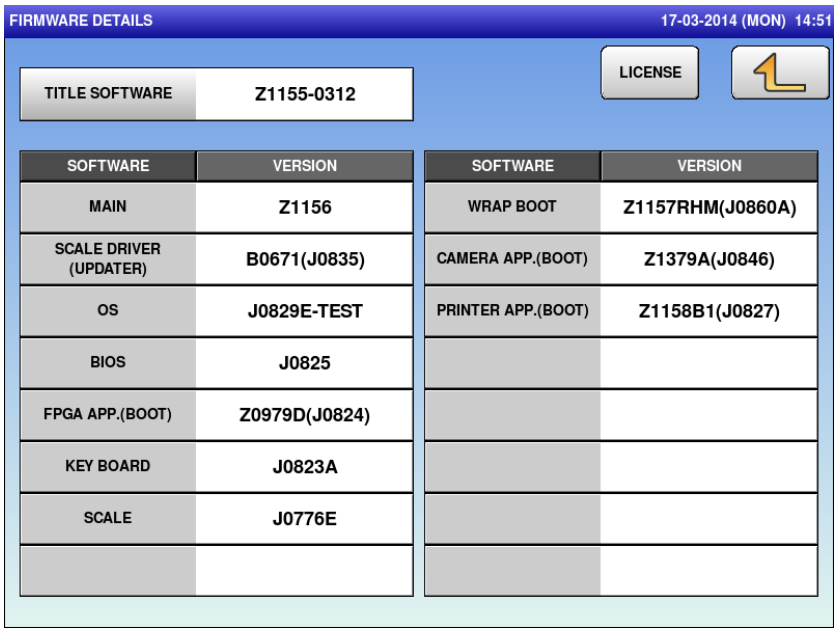
Menu name	Specification
SOUND	Switch between the sound ON and OFF.
VOLUME	Adjust the volume. Input range: 0 to 100

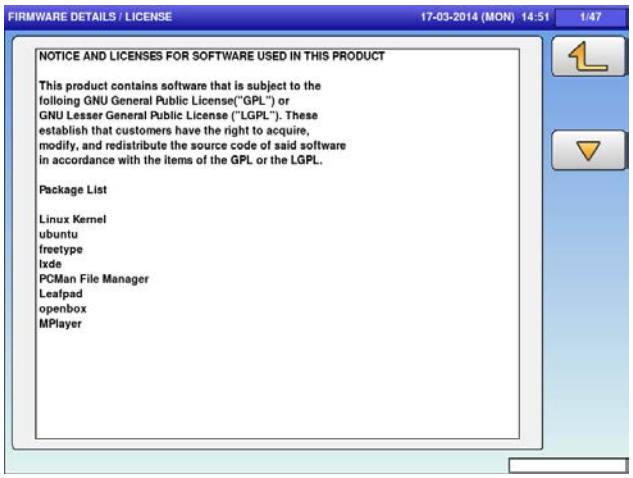
5.6 KEY CHECK



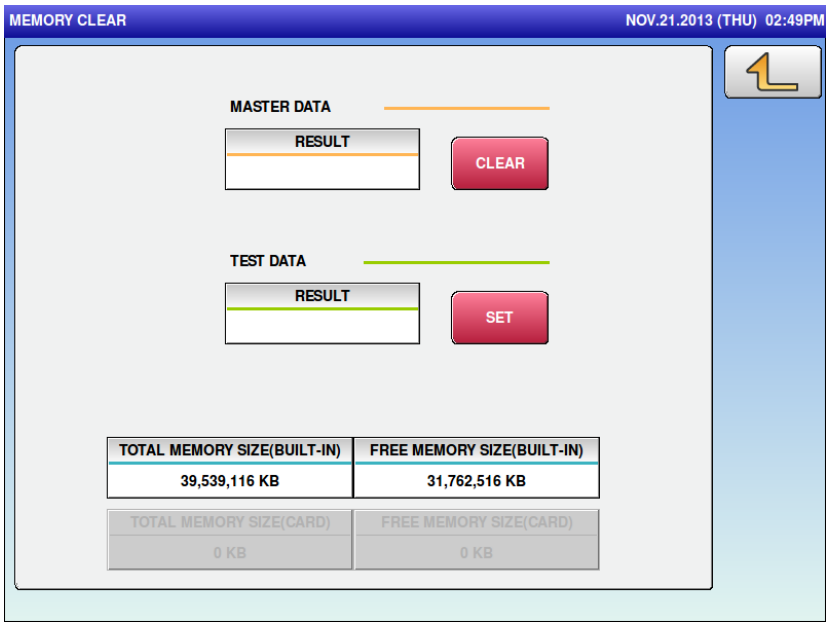
Menu name	Specification
The touched button changes to green, showing the button is activated.	

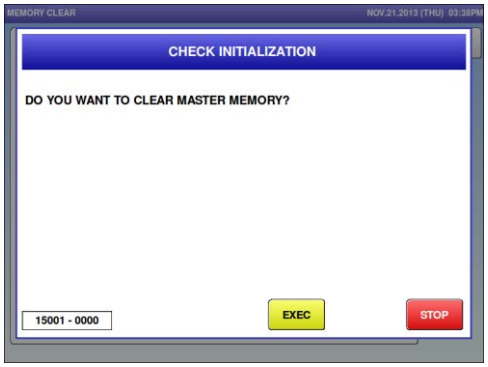
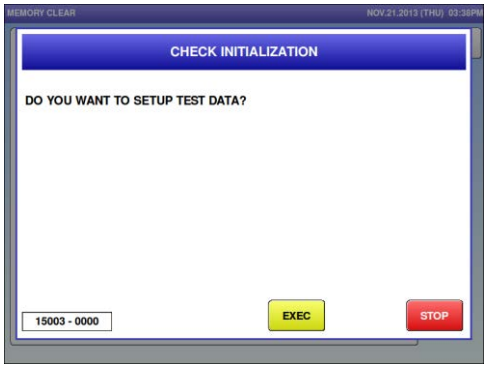
5.7 FIRMWARE DETAILS



Menu name	Specification
LICENSE	Move to the FIRMWARE DETAILS / LICENSE screen. 

5.8 MEMORY CLEAR



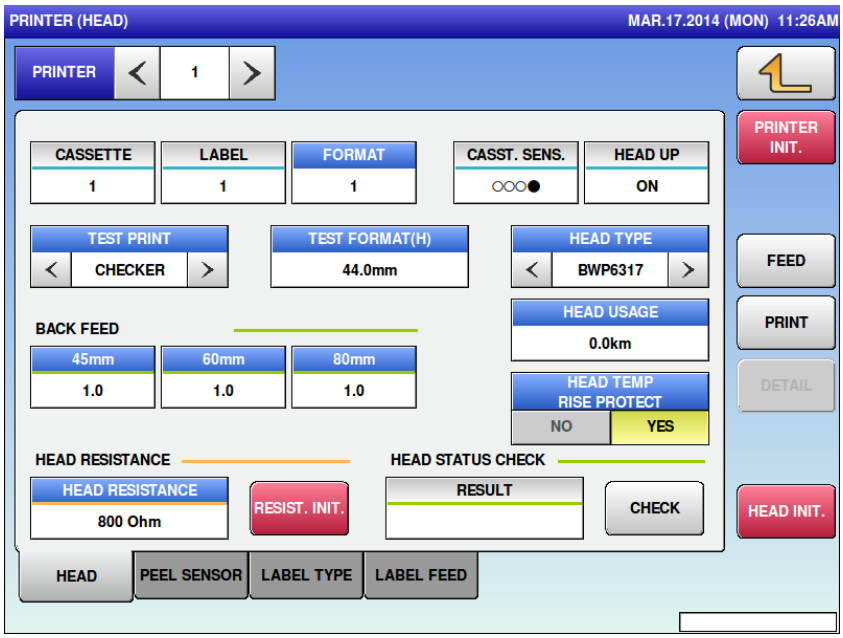
Menu name	Specification
MASTER DATA CLEAR	Clear all DB and initialize the system master. The CHECK INITIALIZATION dialog (memory clear) appears to ask whether to clear the memory. 
TEST DATA SET	Set the initial data and initialize the system master. The CHECK INITIALIZATION dialog (test data setting) appears to ask whether to set the test data. For Oceanian model, the password "951753" should be entered to set the test data. 

Menu name	Specification
MASTER DATA RESULT	Clear the master data and display the result. OK / ERROR
TEST DATA RESULT	Initialize the system data and display the result. OK / ERROR
TOTAL MEMORY SIZE (BUILT-IN)	Display the built-in memory size in kilobyte (kB).
FREE MEMORY SIZE (BUILT-IN)	Display the free memory size in kilobyte (kB).
TOTAL MEMORY SIZE (CARD)	Display the memory size in kilobyte (kB) when the SD card is inserted. If the SD card is not inserted, the option is grayed out.
FREE MEMORY SIZE (CARD)	Display the free memory size in kilobyte (kB) when the SD card is inserted. If the SD card is not inserted, the option is grayed out.

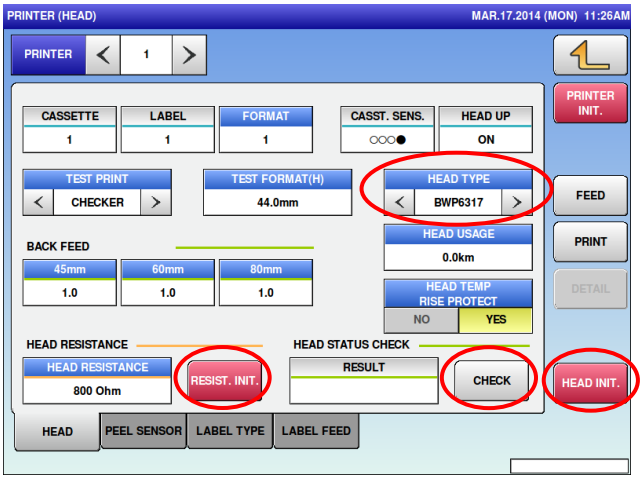
5.9 PRINTER

How to set the hardware for printing and label feeding is described here.
For delivery, perform the adjustment by using the labels actually in use.
To troubleshoot the failures caused by labels, use the genuine monitor labels for comparative evaluation.

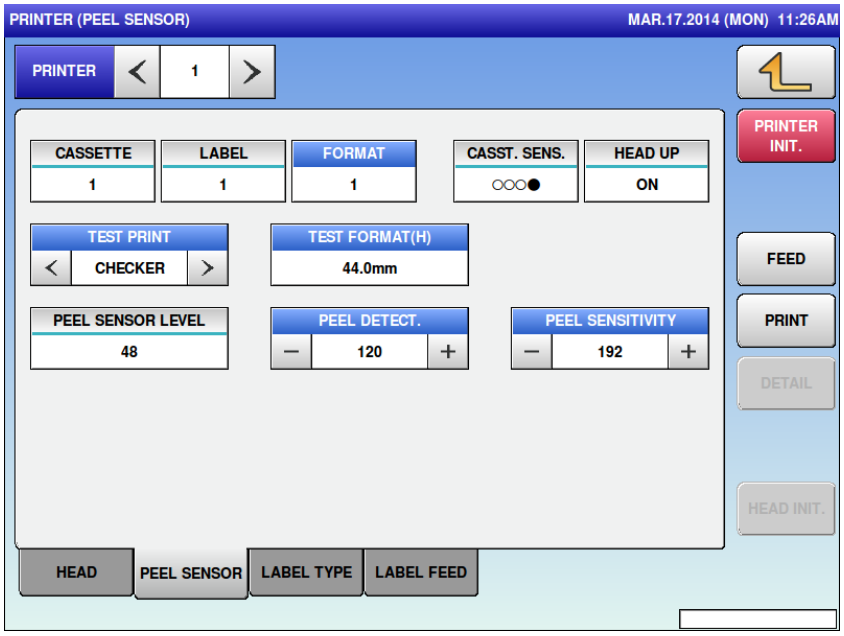
5.9.1 PRINTER (HEAD)



Menu name	Specification
PRINTER	Select the printer. Only connected printer is displayed. 1: Model No.1/2: Model No.2/3: External /4: Under/5: POP
FORMAT	Set the format No. for the test print. Input range: 0 to 999 If there is no format, nothing is printed.
TEST PRINT	Select CHECKER (checkered pattern) or NORMAL (normal pattern).
TEST FORMAT(H)	Set the height of format directly. Input range: 0 to 999
HEAD TYPE	Select the head type.
BACK FEED ADJUSTMENT	Adjust the back feed for each label length. Input range: 0 to 99
HEAD USAGE	Set the head travel distance. Input range: 0 to 999

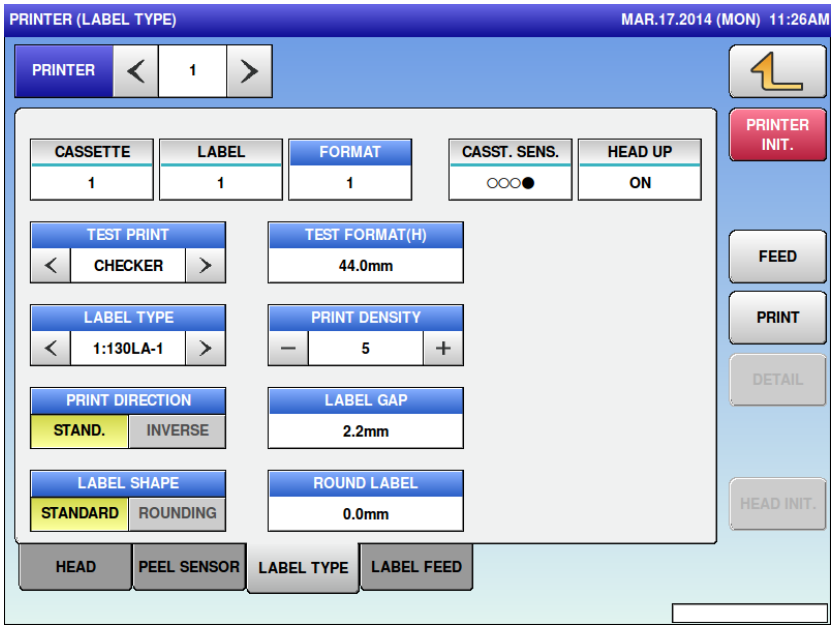
HEAD TEMP RISE PROTECT	Select whether or not to protect the head in case its temperature rises.
HEAD RESISTANCE	Set the head resistance. Input range: 0 to 9999
RESIST.INIT.	Initialize the head resistance.
PRINTER INIT.	Initialize the printer. The CHECK INITIALIZATION dialog (printer initialization) appears to ask whether to initialize the printer. Other tabs also have the same function.
PRINT	Execute the print. Other tabs also have the same function.
FEED	Execute the feed. Other tabs also have the same function.
HEAD INIT.	Initialize the thermal head. The CHECK INITIALIZATION dialog (head initialization) appears to ask whether to initialize the thermal head. Follow the procedure below. ① Press [HEAD INIT.]. ② On the confirmation screen, press [EXEC]. ③ Check HEAD TYPE on the printer to set the the head type to be mounted. ④ Press [RESIST.INIT.] in HEAD RESISTANCE. ⑤ Press [CHECK] in HEAD STATUS CHECK to check the head availability. 

5.9.2 PRINTER (PEEL SENSOR)



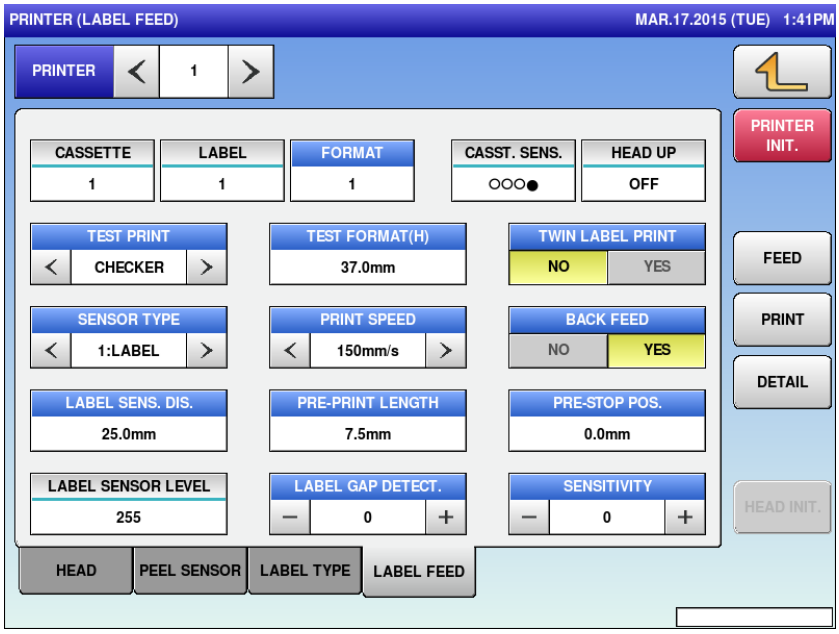
Menu name	Specification
PEEL DETECT.	Set the threshold value of peel sensor. Input range: 0 to 255
PEEL SENSITIVITY	Set the sensitivity of peel sensor. Input range: 0 to 255
PEEL SENSOR LEVEL	Display the output value of peel sensor.
Set the threshold depending on the PEEL SENSOR LEVEL at the time the backing paper remains on the sensor or not. (e.g. If the value at the time the backing paper remains is 180 and if the value at the time the backing paper does not remain is 80, the threshold is set to about 150.)	

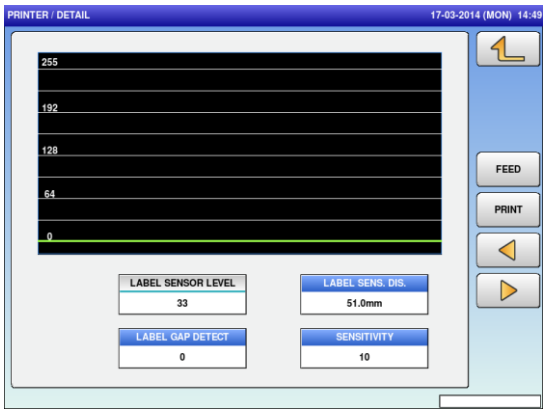
5.9.3 PRINTER (LABEL TYPE)



Menu name	Specification
LABEL TYPE	Select the label type. 0:RECEIPT / 1:130LA-1 / 3:150LA-1
PRINT DENSITY	Adjust the print density. Input range: 0 to 9
PRINT DIRECTION	Select the print direction. STAND. / INVERSE
LABEL GAP	Set the “Interval between labels” of the label roll set to the printer. Input range: 0 to 99.9
LABEL SHAPE	Set the label gap (the gap between labels). Input range: 0 to 999
ROUND LABEL	Set the correction value of irregular-shaped label. Input range: 0 to 999

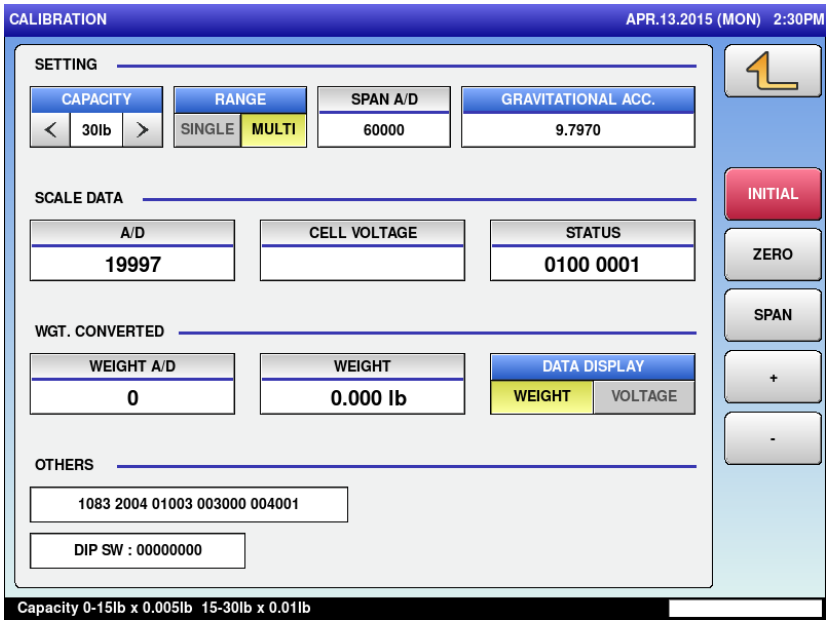
5.9.4 PRINTER (LABEL FEED)



Menu name	Specification
DETAIL	Transfer to the label sensor details screen. 
TWIN LABEL PRINT	Set whether to perform twin label print in the test print. NO: label feed is controlled in pricing in DP mode YES: label feed controlled on pasting label by the labelling machine
SENSOR TYPE	Set the sensor type. 0: NONE / 1: LABEL / 2: MARK
PRINT SPEED	Set the print speed. 100mm/s / 120mm/s / 150mm/s
BACK FEED	Select whether or not to set the back feed.
LABEL SENS. DIS.	Set the label sensor distance. Input range: 0 to 99.9
PRE-PRINT LENGTH	Set the pre-print length. Input range: 0 to 99.9

Menu name	Specification
LABEL GAP DETECT.	Set the label sensor threshold. Input range: 0 to 255
SENSITIVITY	Set the label sensor sensitivity. Input range: 0 to 255
LABEL SENSOR LEVEL	Display the output value of label sensor.
Set the label sensor sensitivity so as not to exceed the peak value of label sensor. (e.g. If the label sensor peak is about 120, the threshold is set to about 100.)	

5.10 CALIBRATION

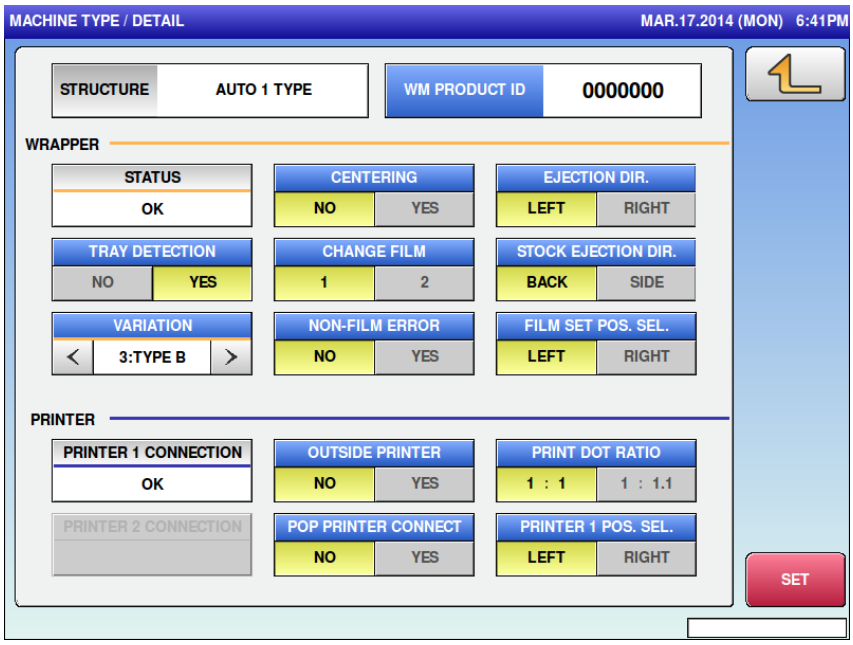


Menu name	Specification
CAPACITY	Set the capacity of the scale. 6000g / 6kg / 15kg / 30kg / 30lb
RANGE	Select the range. The range to be selected is limited depending on the capacity.
GRAVITATIONAL ACC.	Set the gravitational acceleration. Input range: 97799 to 98300
DATA DISPLAY	Select the A/D or cell voltage display.
INITIAL	Initialize the scale.
ZERO	Adjust the current scale status to zero.
SPAN	Set the current scale status to CAPACITY according to the CAPACITY setting.
+	Add span value.
-	Deduct span value.

5.11 MACHINE TYPE

Menu name	Specification
AUTO SINGLE	Judge as the auto pasting single type, move to the [MACHINE TYPE / DETAIL] screen. For AS models, select this option.
AUTO DUAL	Judge as the auto pasting dual type, move to the [MACHINE TYPE / DETAIL] screen. For AT models, select this option.
NON-WRAP	Judge as the inspection unit, move to the [MACHINE TYPE / DETAIL] screen.
WRAP ONLY	Judge as the single wrapper model type, move to the [MACHINE TYPE / DETAIL] screen. For the models without printer, select this option.

5.11.1 MACHINE TYPE / DETAIL

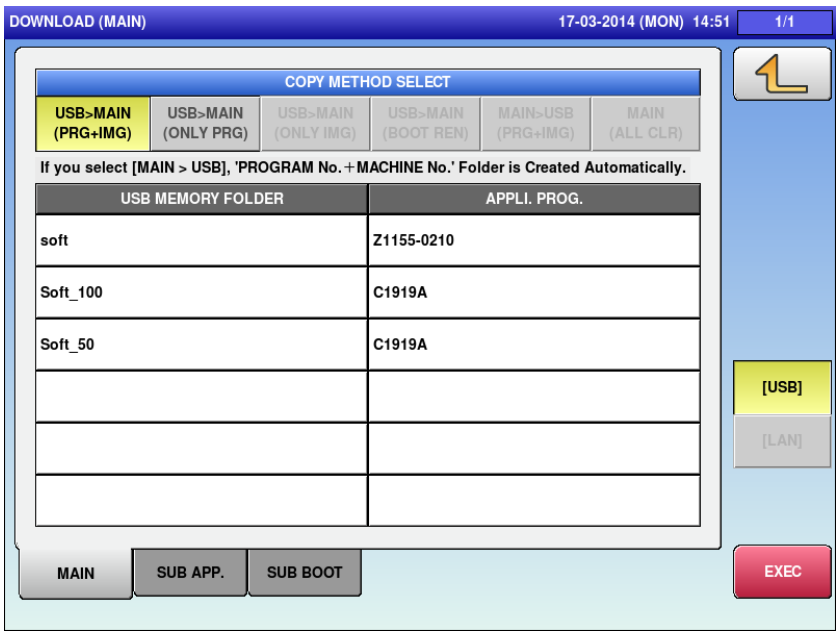


Menu name	Specification
WM PRODUCT ID	Set the product ID in seven digits.
CENTERING	Select and set whether to use the tray centering function.
EJECTION DIR.	Select and set the tray ejection direction. This option is displayed only when it is valid (depends on the models).
TRAY DETECTION	Select and set whether to use the tray detection function.
CHANGE FILM	Select and set the film number.
STOCK EJECTION DIR.	Select and set the ejection direction of the stock conveyor. This option is displayed only when it is valid (depends on the models).
VARIATION	Select and set the model variation.
NON-FILM ERROR	Select and set whether to display the non-film error.
FILM SET POS. SEL.	Select and set the film set position. Set according to the machine model.
OUTSIDE PRINTER	Select and set whether to connect the external printer.
PRINT DOT RATIO	Select and set the printing dot ratio.
POP PRINTER CONNECT	Select and set whether to connect the POP printer.
PRINTER 1 POS. SEL.	Specify the printer No. 1 for the dual specification.
SET	Save the setting (with confirmation message).
STRUCURE	Display the configuration selected by the previous screen [MACHINE TYPE].

Menu name	Specification
STATUS	Display the communication status with the wrapper.
PRINTER 1 CONNECTION	Display the communication status with Printer No.1.
PRINTER 2 CONNECTION	Display the communication status with Printer No.2.

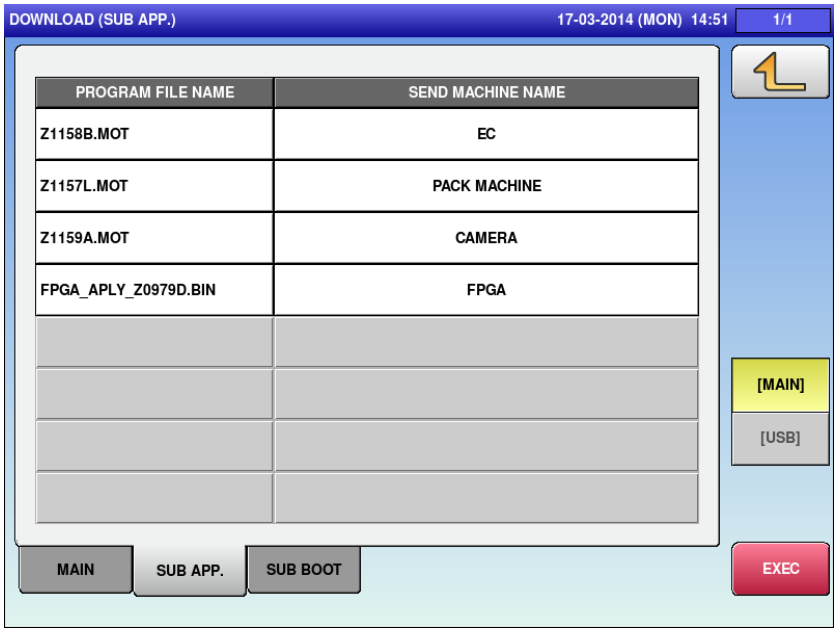
5.12 DOWNLOAD

5.12.1 DOWNLOAD (MAIN)



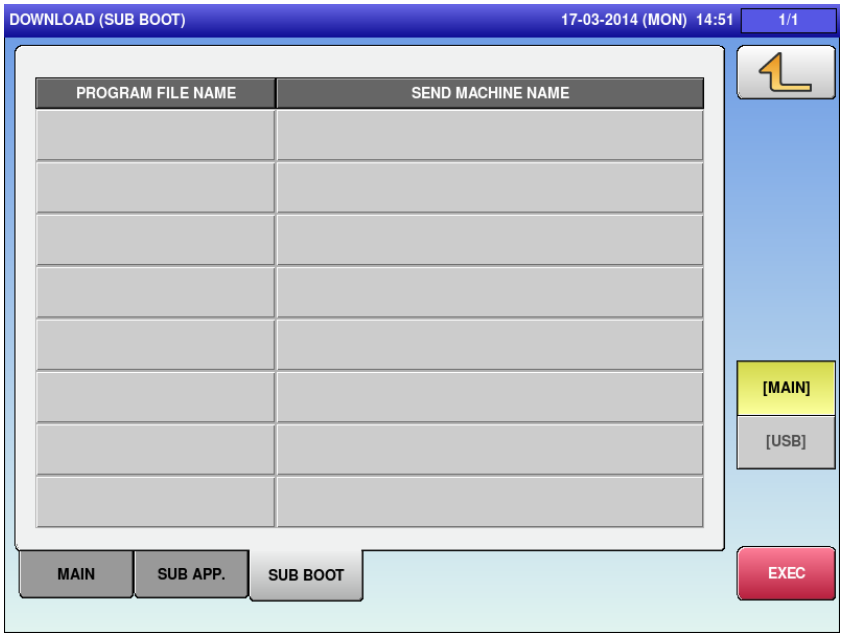
Menu name	Specification
COPY METHOD SELECT	When “USB>MAIN (PRG+IMG)” is selected, the program and the image data of the selected USB memory folder are downloaded. When “USB>MAIN (ONLY PRG)” is selected, only the program of the selected USB memory folder is downloaded. The image data is not downloaded.
USB MEMORY FOLDER	Touch this button to switch the selection.
APPLI. PROG.	Touch this button to switch the selection.
EXEC	Download the selected program. The CHECK EXECUTION OF MAIN PROGRAM DOWNLOAD dialog appears to ask whether to download the program.

5.12.2 DOWNLOAD (SUB APP.)



Menu name	Specification
PROGRAM FILE NAME	Touch this button to switch the selections.
SEND MACHINE NAME	Touch this button to switch the selections.
MAIN/USB	Select where the program is downloaded from. MAIN / USB
EXEC	Download the selected program. The CHECK FOR EXECUTION OF DEVICE MACHINE PROGRAM dialog appears to ask whether to download the program.

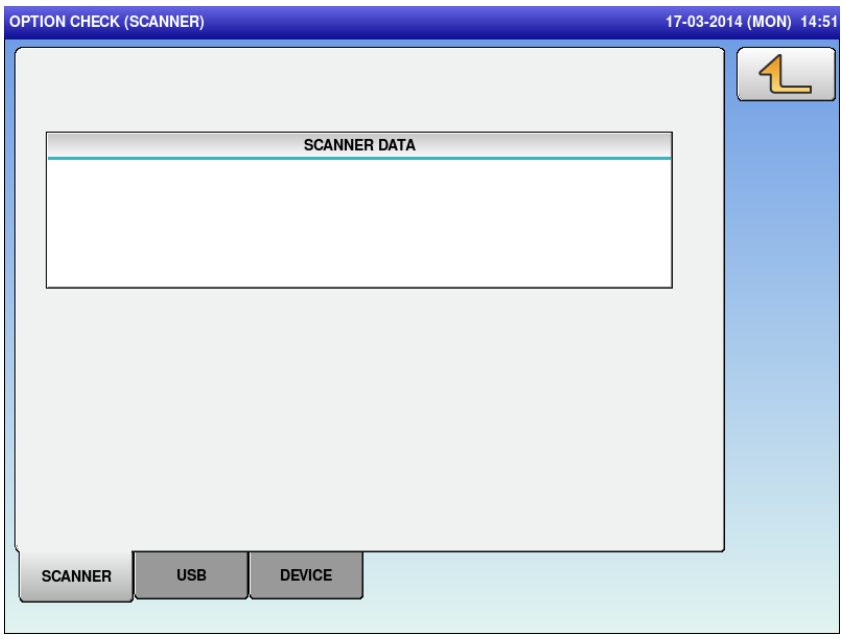
5.12.3 DOWNLOAD (SUB BOOT)



Menu name	Specification
PROGRAM FILE NAME	Touch this button to switch the selections.
SEND MACHINE NAME	Touch this button to switch the selections.
MAIN/USB	Select where the program is downloaded from. MAIN / USB
EXEC	Download the selected program. The CHECK FOR EXECUTION OF DEVICE MACHINE PROGRAM dialog appears to ask whether to download the program.

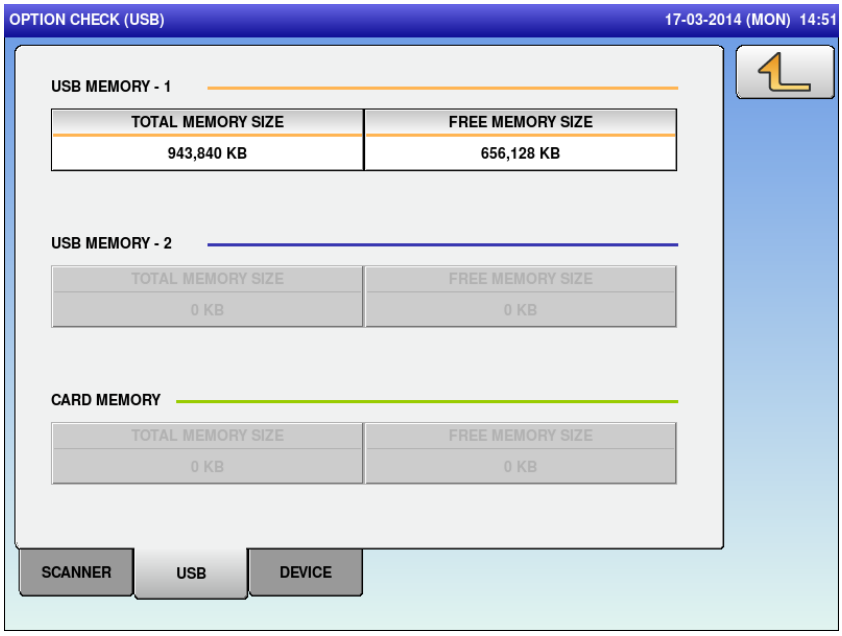
5.13 OPTION CHECK

5.13.1 OPTION CHECK (SCANNER)



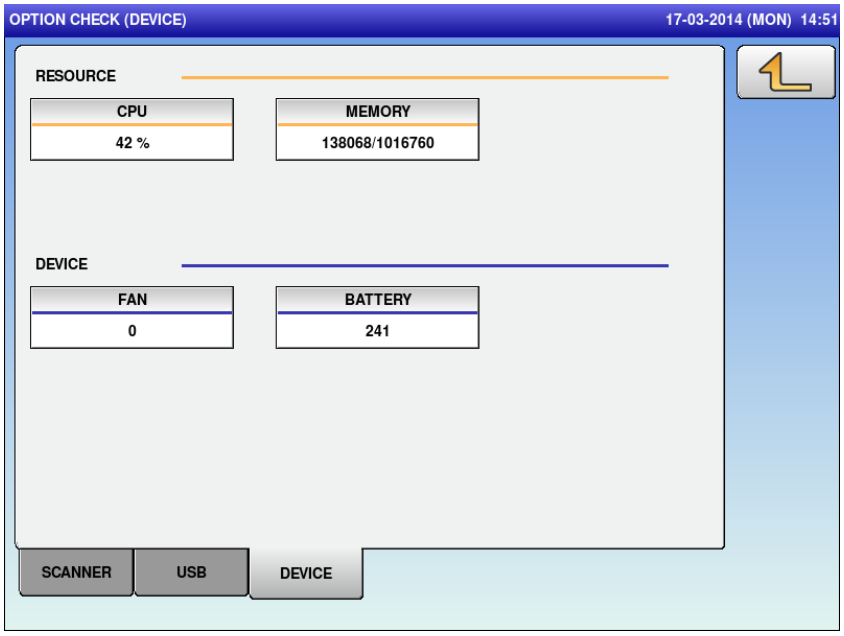
Menu name	Specification
SCANNER DATA	Display the scanned data.

5.13.2 OPTION CHECK(USB)



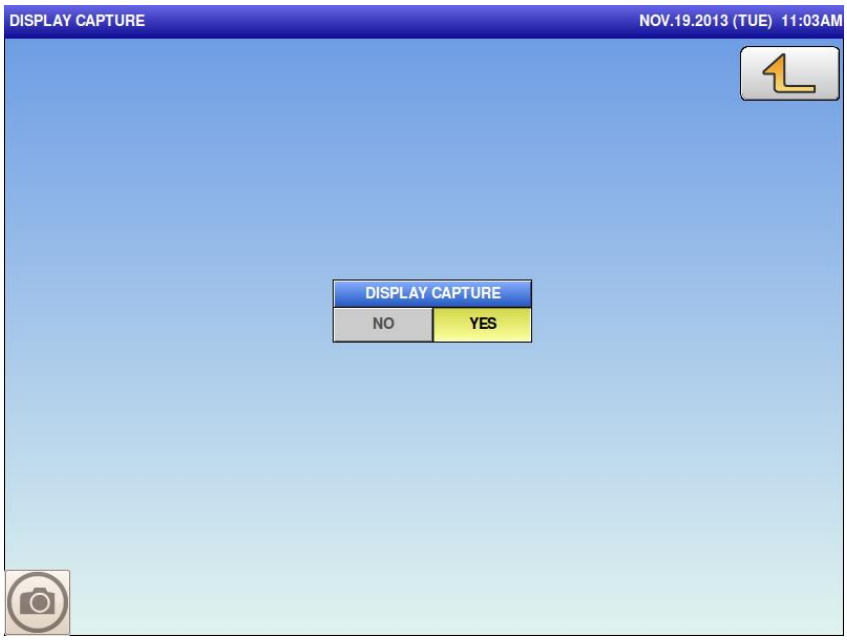
Menu name	Specification
USB MEMORY -1	Display the information of connected USB memory.
USB MEMORY -2	Display the information of connected USB memory.
CARD MEMORY	Display the information of connected SD card memory.

5.13.3 OPTION CHECK (DEVICE)



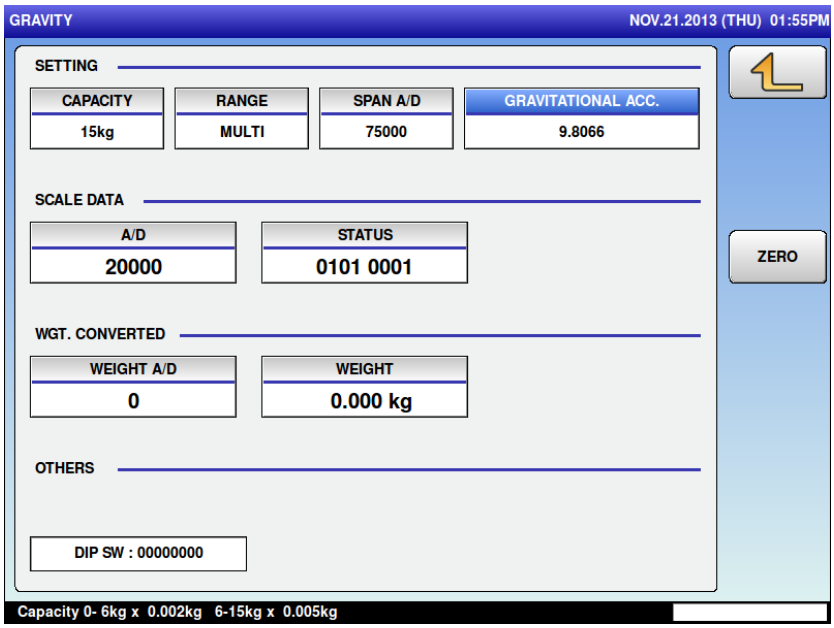
Menu name	Specification
CPU	Display the CPU use rate.
MEMORY	Display the use size and the total size of the internal memory.
FAN	Display the rotation count of the CPU fan. Unit: internal count
BATTERY	Display the battery voltage. Unit: internal AD value

5.14 DISPLAY CAPTURE



Menu name	Specification
DISPLAY CAPTURE	Select display capturing. At power ON, [NO] is selected as a default setting. Selecting [YES] displays the camera mark at the lower left side of the screen. Pressing the camera mark on each screen captures the screen, and creates the PNG file. The data is stored in the Capture folder in the USB memory. The PNG file name is created in series with the name from "000_xxxx.jpg" to "999_xxxx.jpg" (xxxx refers to the screen name). When a file already has the same name, the file is overwritten. The data is reset when the power is ON, and is created again from the name "000_xxxx.jpg".

5.15 GRAVITY



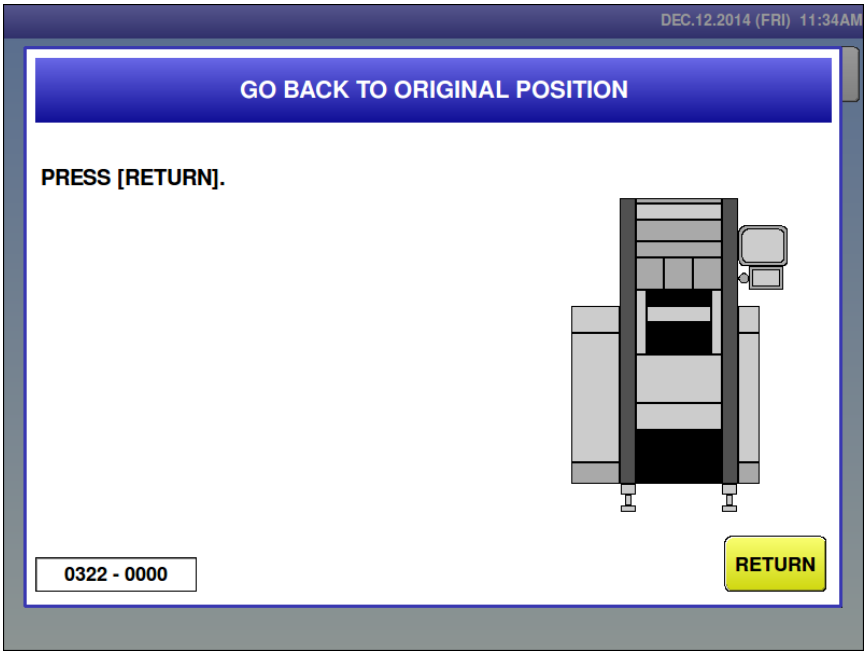
Menu name	Specification
CAPACITY	Display the capacity.
RANGE	Display the range type.
GRAVITATIONAL ACC.	Set the gravitational acceleration. Setting range: 97799 to 98300
SPAN A/D	Display the span count.
A/D	Display the A/D count.
STSTUS	Display the scale status.
WEIGHT A/D	Display the A/D count for weight conversion.
WEIGHT	Display the weight.
DIP SW	Display the DIP SW status of the scale.
ZERO	Display the zero point adjustment.

Chapter 6 Trouble shooting

6.1 Operation as IP (scale and printer)

This section describes how to temporarily use the wrapper as IP (scale and printer only available) when the machine cannot be used as intended due to an error, etc.

1 Turn off the power of the wrapper.
2 Apply the power to the wrapper. The following screen 1 appears.
3 Press the emergency stop switch of the wrapper.
4 Press the [RETURN] button of the wrapper 11 times. The screen 1 disappears and changes to the regular screen.
5 After opening the front cover, the wrapper can be used as IP (scale price labeler).



Screen 1: When power-on

6.2 Error Message

■ Error screen

When the machine detects an error, the following error message and error No. are displayed. Some errors can be recovered simply by pressing corresponding buttons.

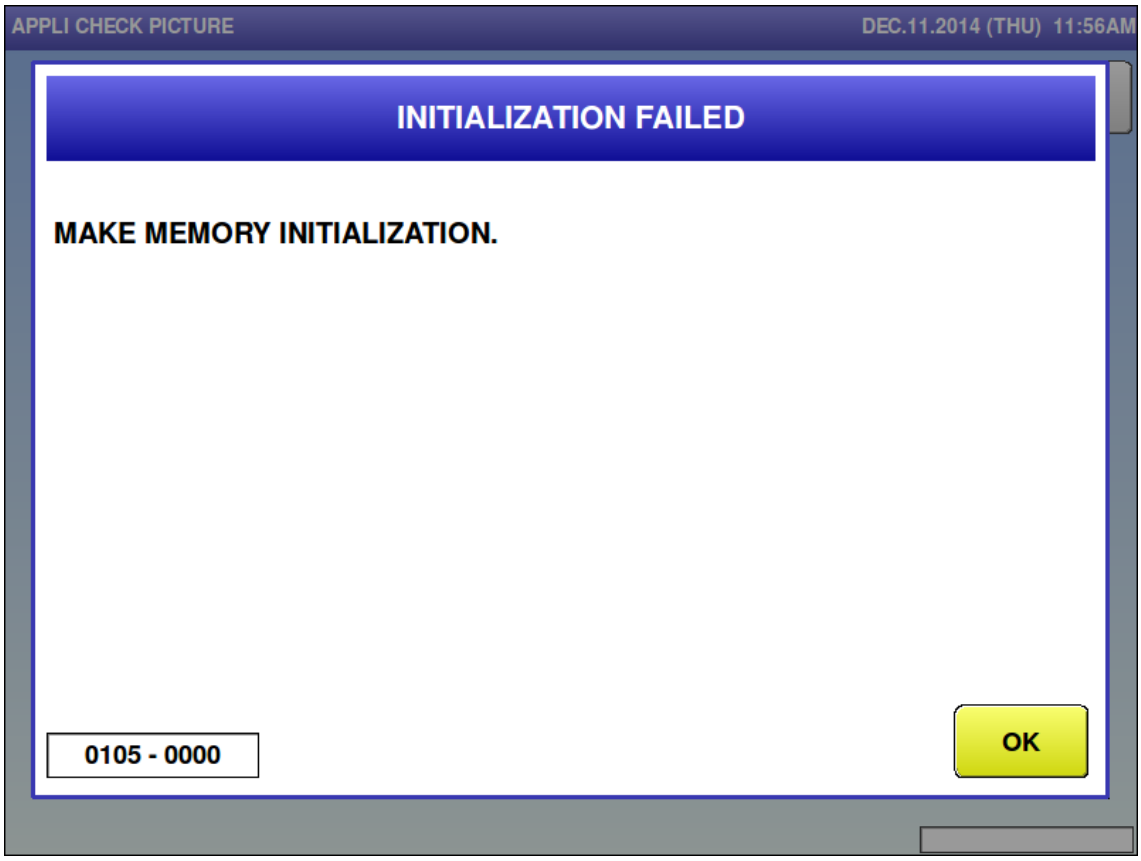
Some require combination of the button and simple operations, or maintenances such as replacing parts.

Be sure to check an error No. when you receive an inquiry from a user.

Even error messages are similar, different solution may be necessary to clear the errors.

Error No. consists of main No. (4 digits) + Sub-No. (4 digits).

If only a type of sub-No. (0000) exists, an error message list displays main No. only.

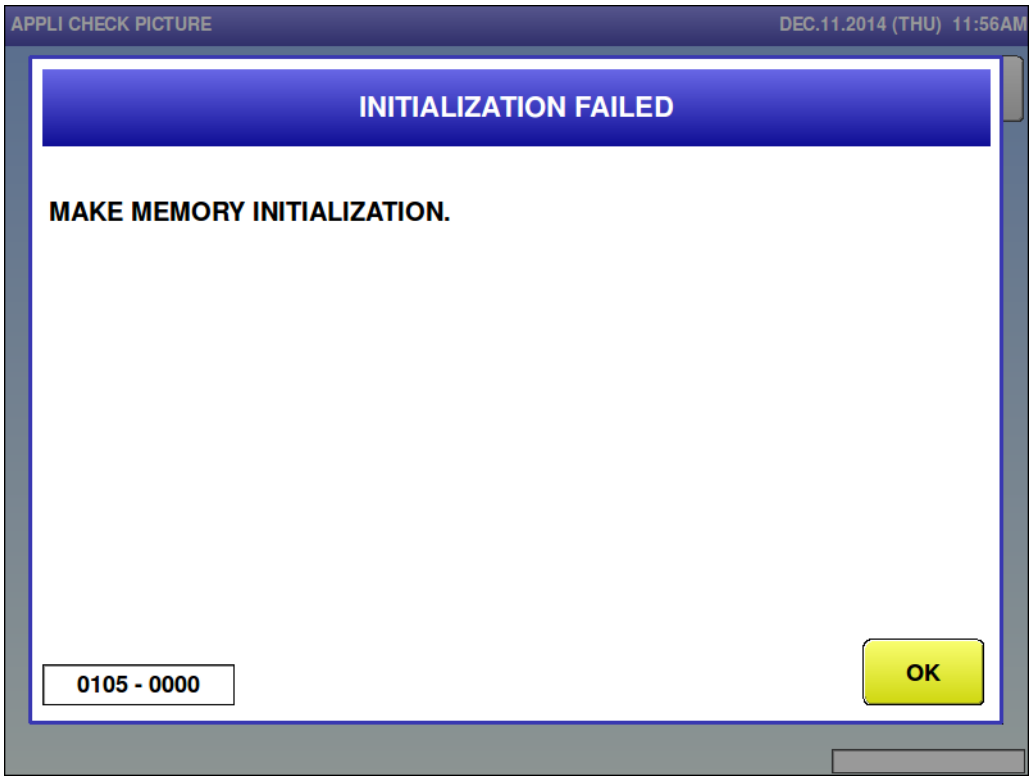


Screen 2: Example of error screen

6.3 System Error

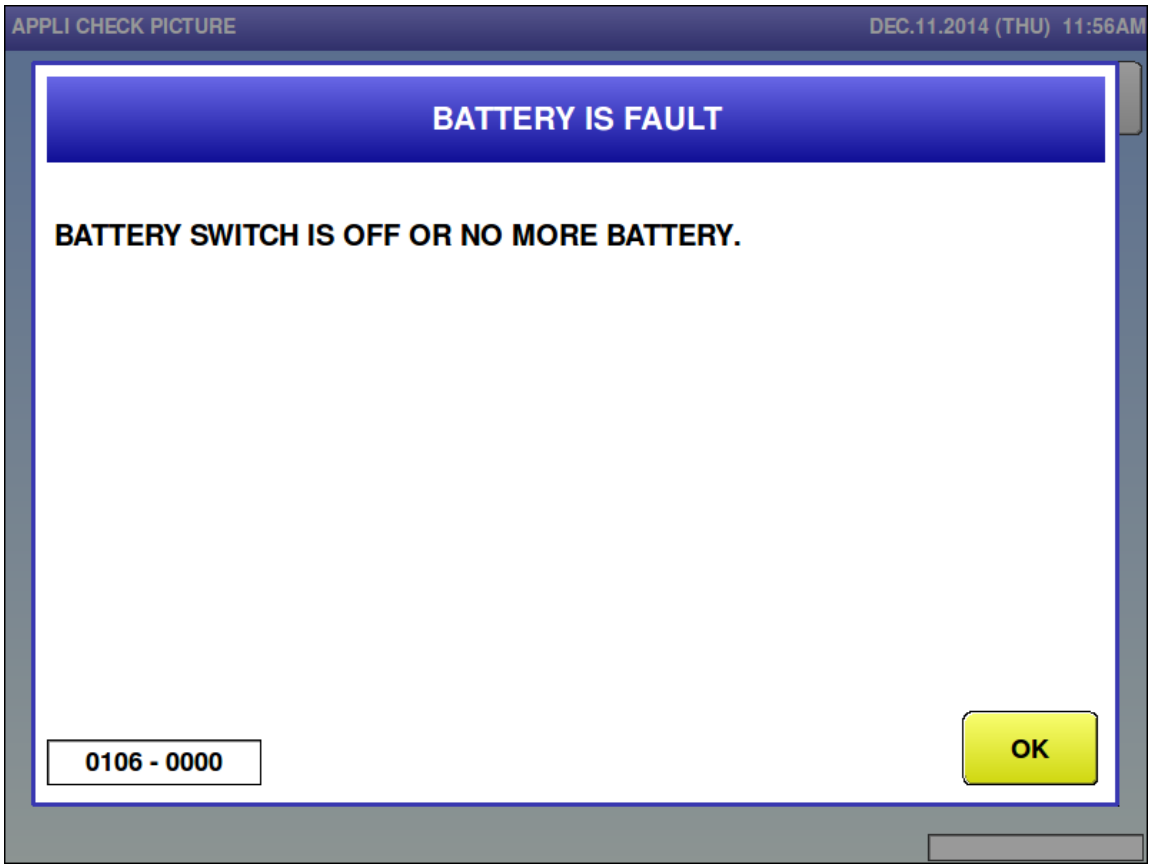
6.3.1 System-related Error (No. 100s)

■ Initialization failed (0105)



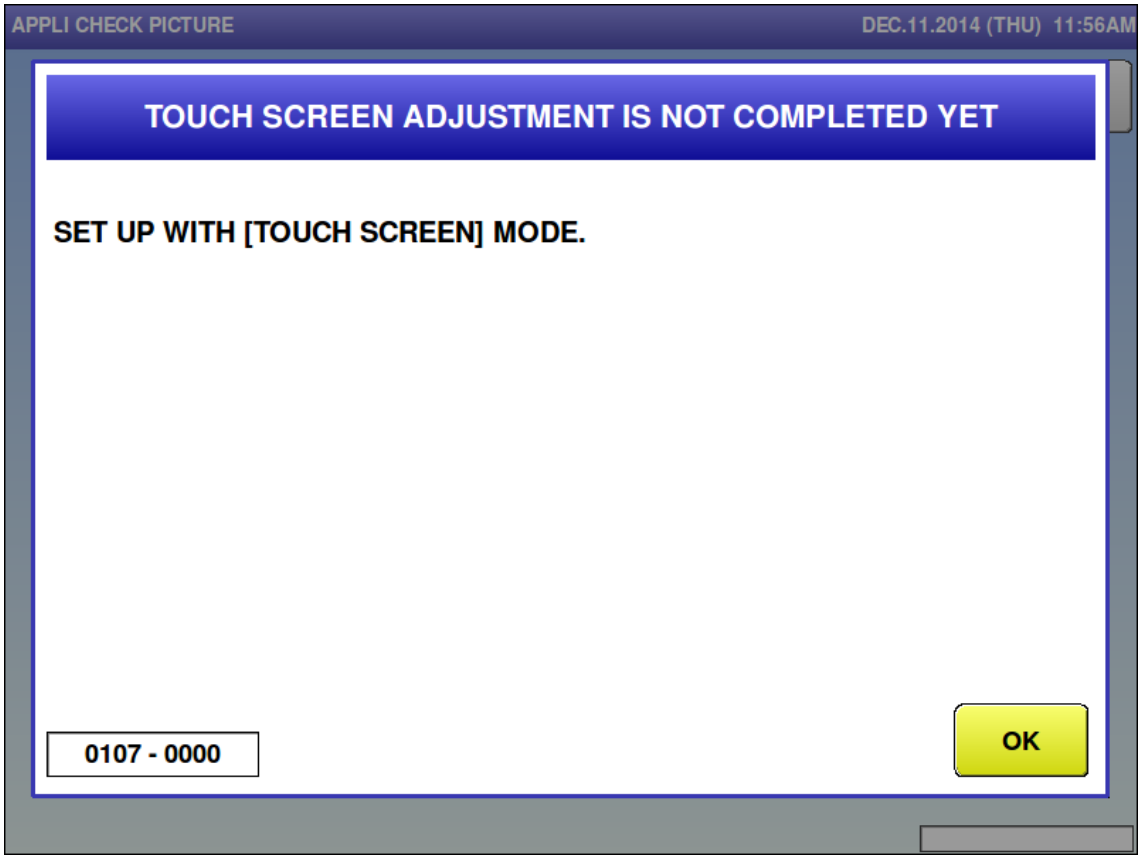
Error content	Initialization failed.
Detail	Initialization has not been performed.
Solution	[OK] button
Action by user	
Action by service representative	Perform memory initialization.
Related part	Main board
Remarks	Memory needs to be cleared on the [ADJUST (MEMORY CLEAR)] screen.

■ Battery is faulty (0106)



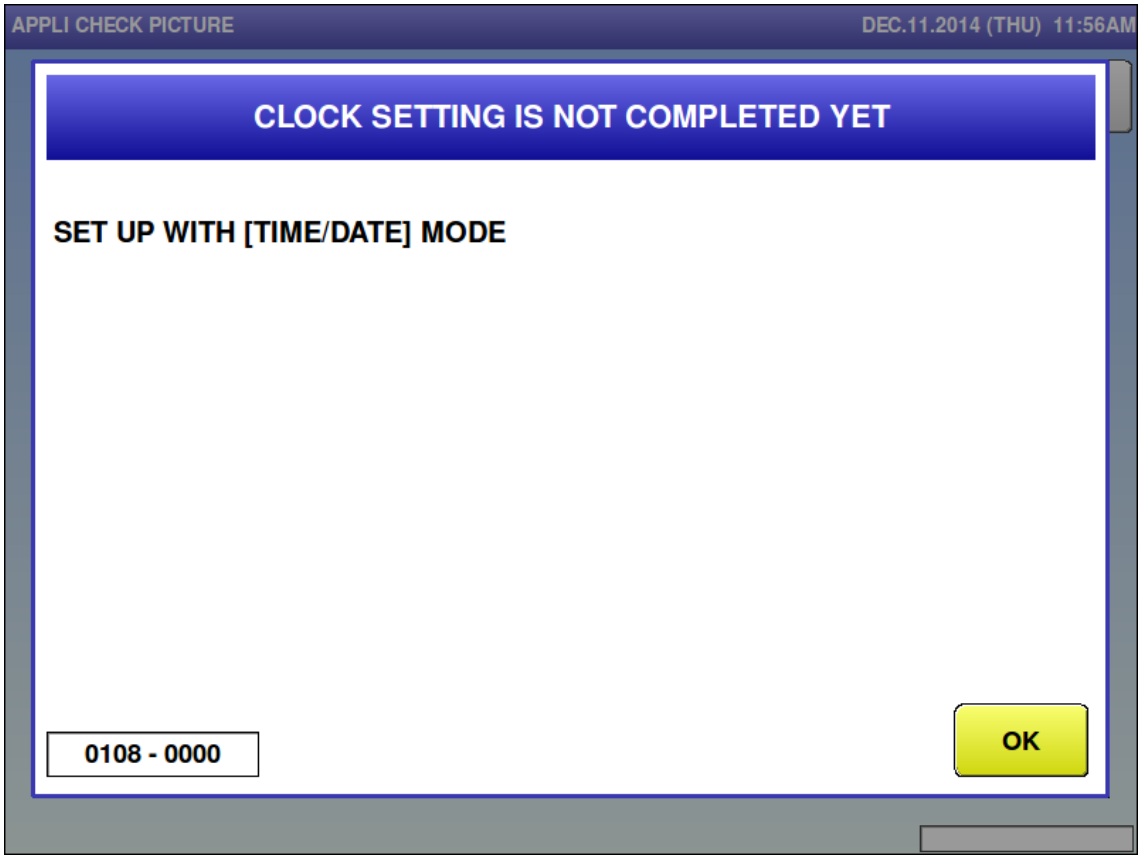
Error content	Battery is faulty.
Detail	Battery in the board is exhausted.
Solution	[OK] button
Action by user	
Action by service representative	Check the battery of the main board. Check the battery switch of the main board.
Related part	Main board
Remarks	Turn off the machine and replace the battery in the board. Confirm the battery switch.

■ Touch screen adjustment is not completed yet (0107)



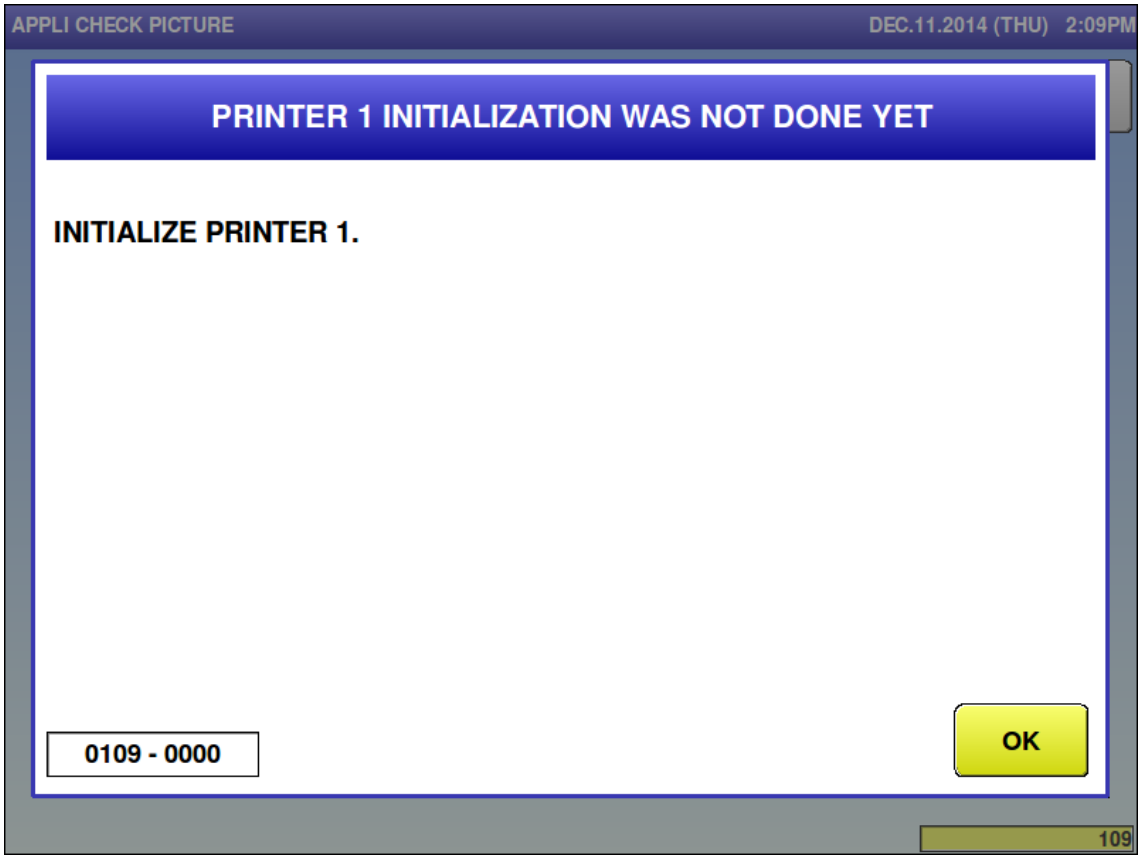
Error content	Touch screen adjustment is not completed yet.
Detail	
Solution	[OK] button
Action by user	Perform touch panel adjustment.
Action by service representative	Perform touch panel adjustment.
Related part	Main board Display board
Remarks	Set up on the [ADJUST (TOUCH SCREEN)] screen.

■ Clock setting is not completed yet (0108)



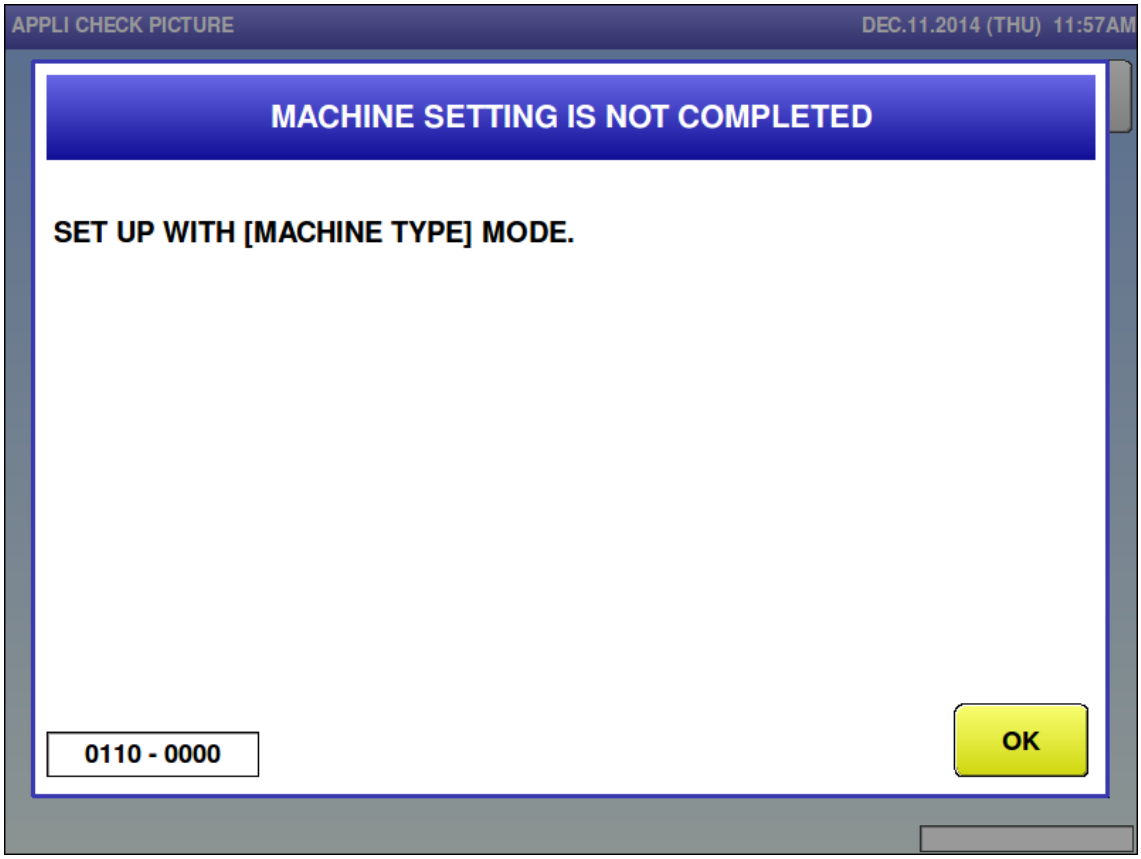
Error content	Clock setting is not completed yet.
Detail	
Solution	[OK] button
Action by user	Perform date adjustment.
Action by service representative	Perform date adjustment.
Related part	Main board
Remarks	Set up on the [ADJUST (DATE TIME)] screen.

■ Printer 1 initialization was not done yet (0109)



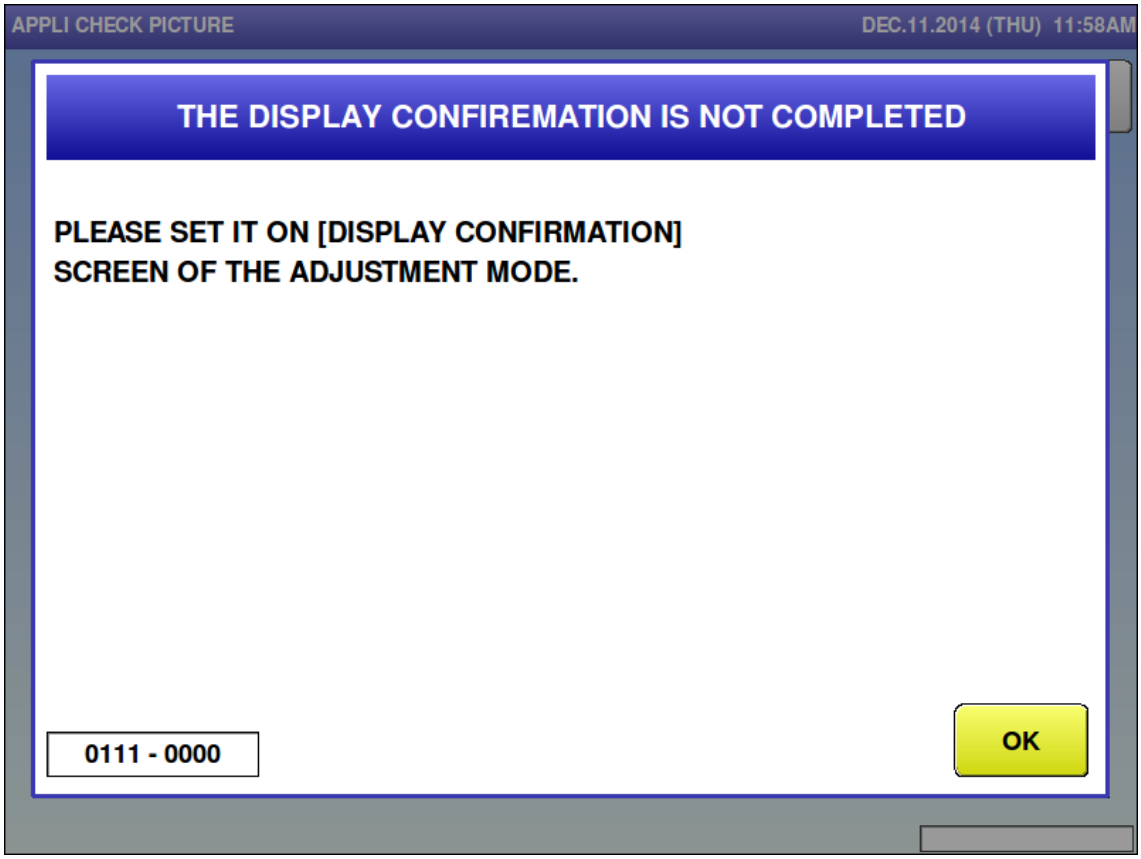
Error content	Printer 1 initialization was not done yet.
Detail	Sub-error is the printer number. 0000: Printer No.1 0001: Printer No.2
Solution	[OK] button
Action by user	
Action by service representative	Perform printer initialization.
Related part	Main board
Remarks	The title of “Printer No.1” depends on sub error No. Perform printer initialization on the [ADJUST (PRINTER)] screen.

■ Machine setting is not completed (0110)



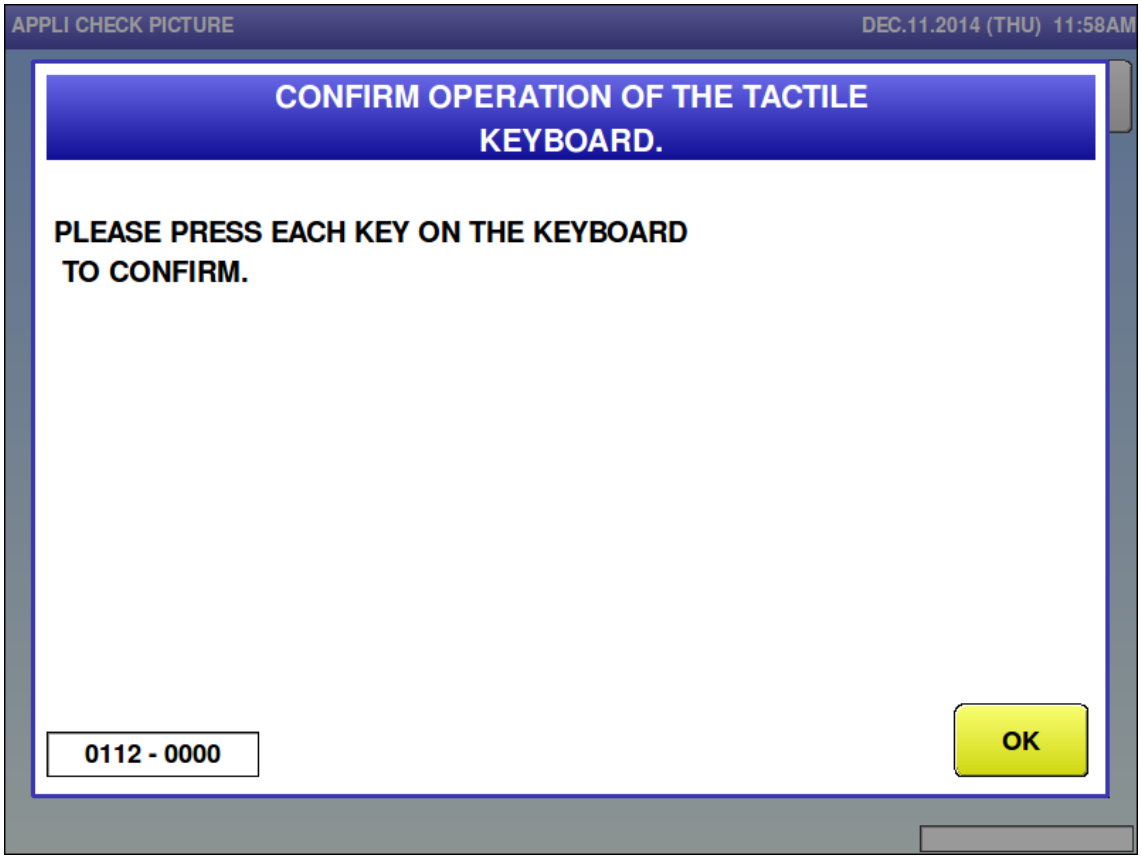
Error content	Machine setting is not completed.
Detail	
Solution	[OK] button
Action by user	
Action by service representative	Perform machine type settings.
Related part	Main board
Remarks	Set up on the [ADJUST (MACHINE TYPE)] screen.

■ The display confirmation is not completed (0111)



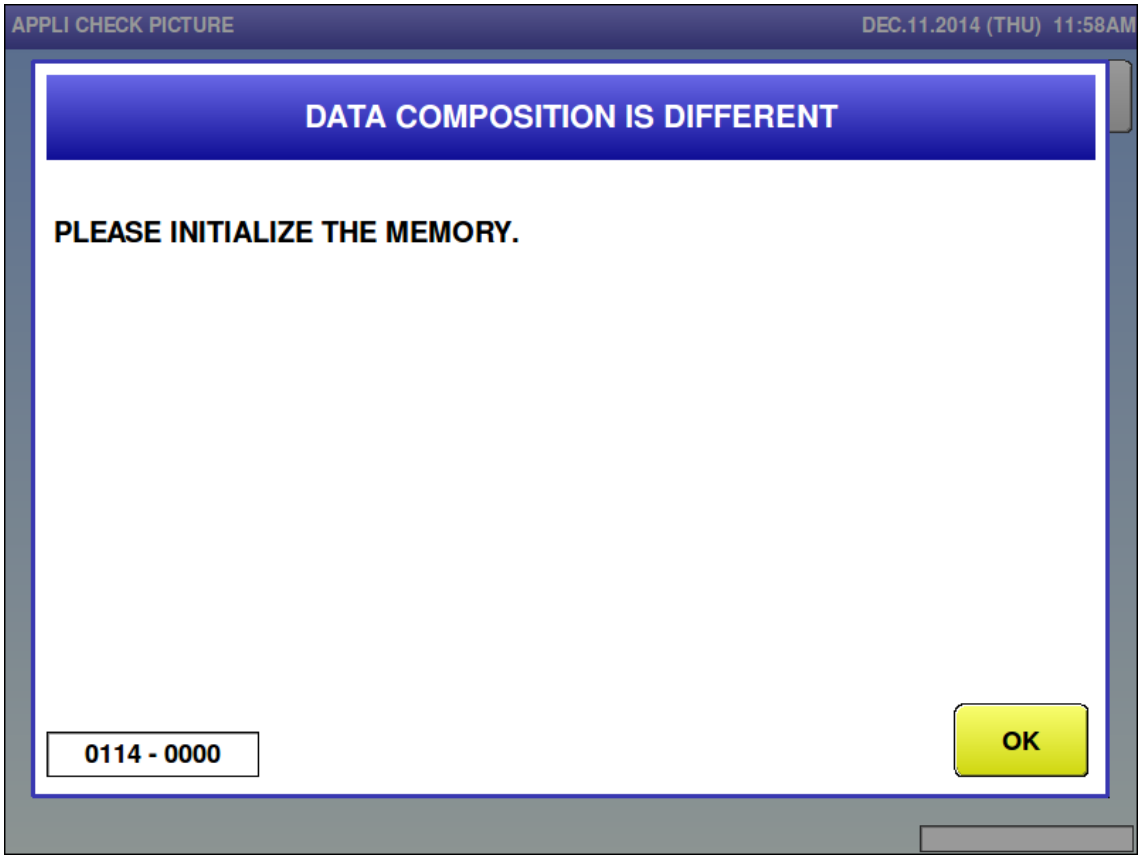
Error content	The display confirmation is not completed.
Detail	
Solution	[OK] button
Action by user	
Action by service representative	Perform display settings.
Related part	Main board
Remarks	Set the brightness on the [ADJUST(DISPLAY CHECK)] screen.

■ Confirm operation of the tactile keyboard (0112)



Error content	Confirm operation of the tactile keyboard
Detail	
Solution	[OK] button
Action by user	
Action by service representative	Confirm the key operation.
Related part	Main board Display key board
Remarks	Check the key on the [ADJUST (KEY CHECK)] screen..

■ Data composition is different (0114)

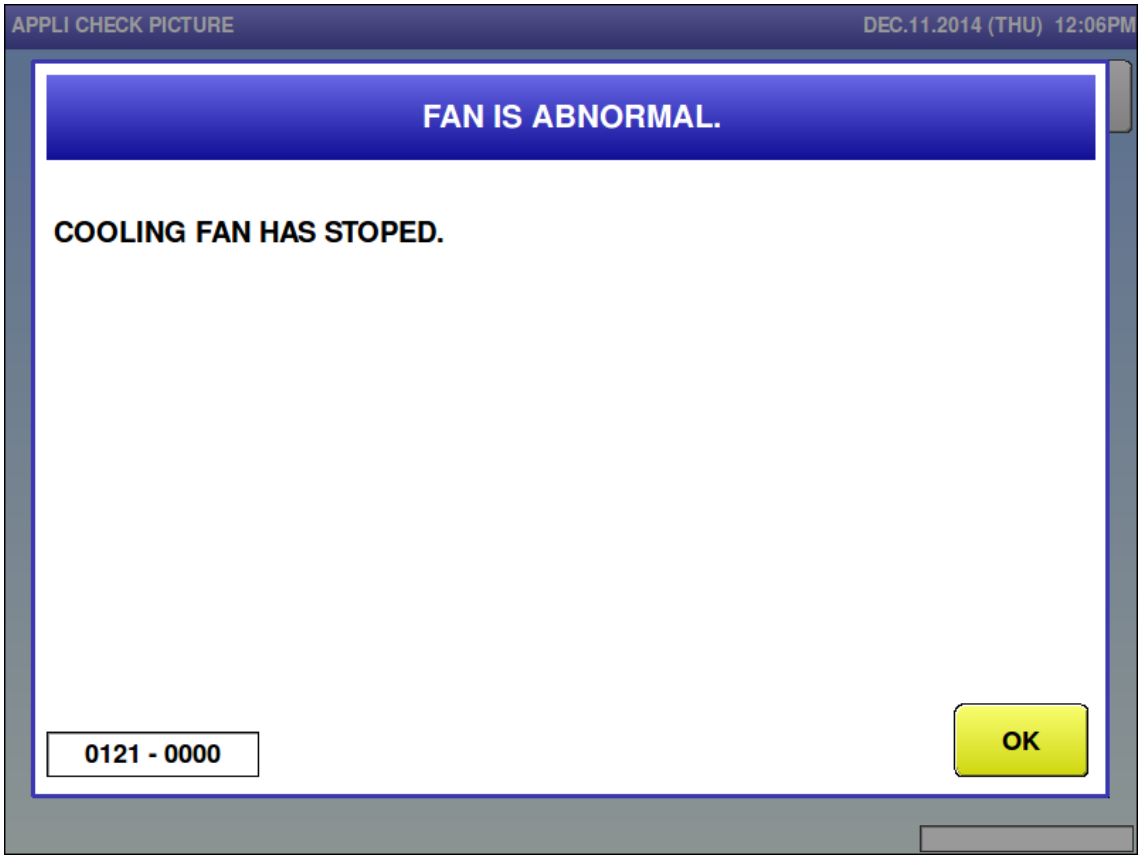


Error content	Data composition is different.
Detail	Data composition of data base is different
Solution	[OK] button
Action by user	
Action by service representative	Master return after memory initialization
Related part	Main board
Remarks	Data composition is different Change is made to data composition.

■ The country has not been selected (0118-0000)

Error content	Confirm country selection.
Detail	Country is not selected.
Solution	[OK] button
Action by user	
Action by service representative	Select a country.
Related part	Main board
Remarks	

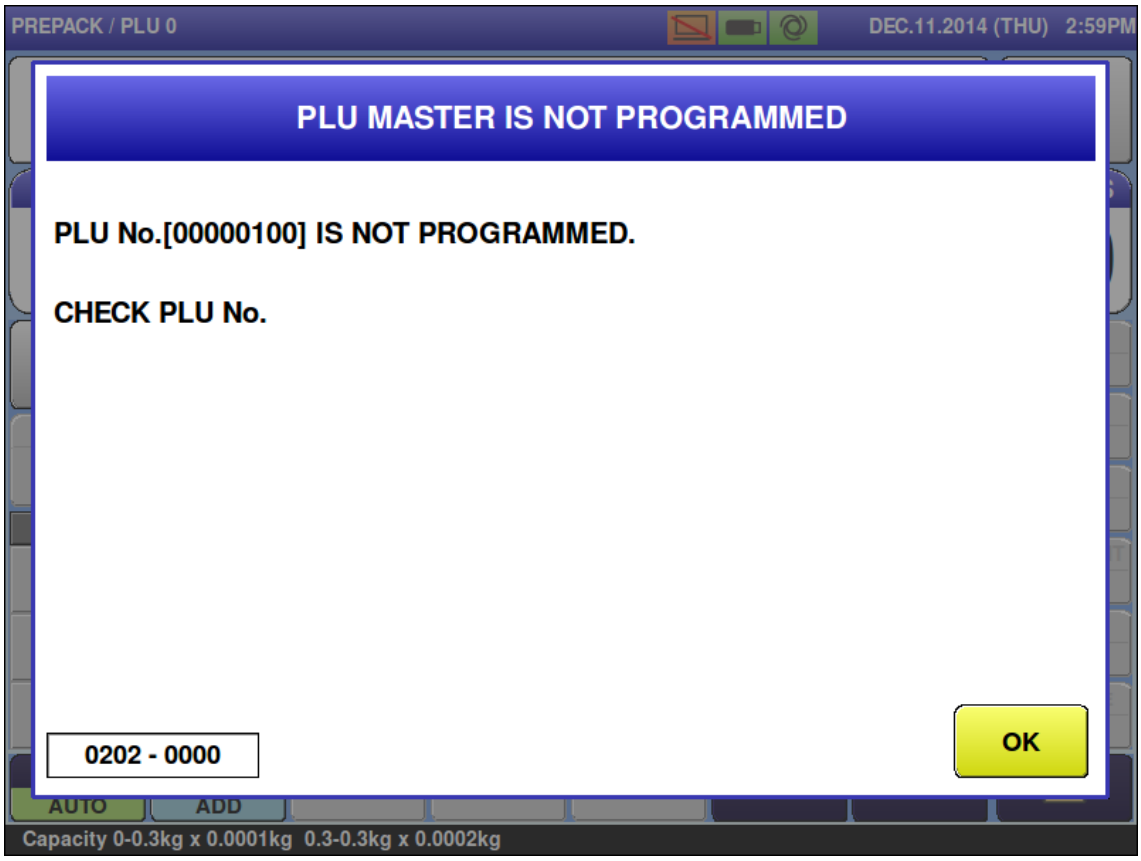
■ FAN is abnormal. (0121-0000)



Error content	FAN error
Detail	
Solution	[OK] button
Action by user	
Action by service representative	Check the connection between the main board and fan. Check the fan.
Related part	Main board CPU-FAN
Remarks	

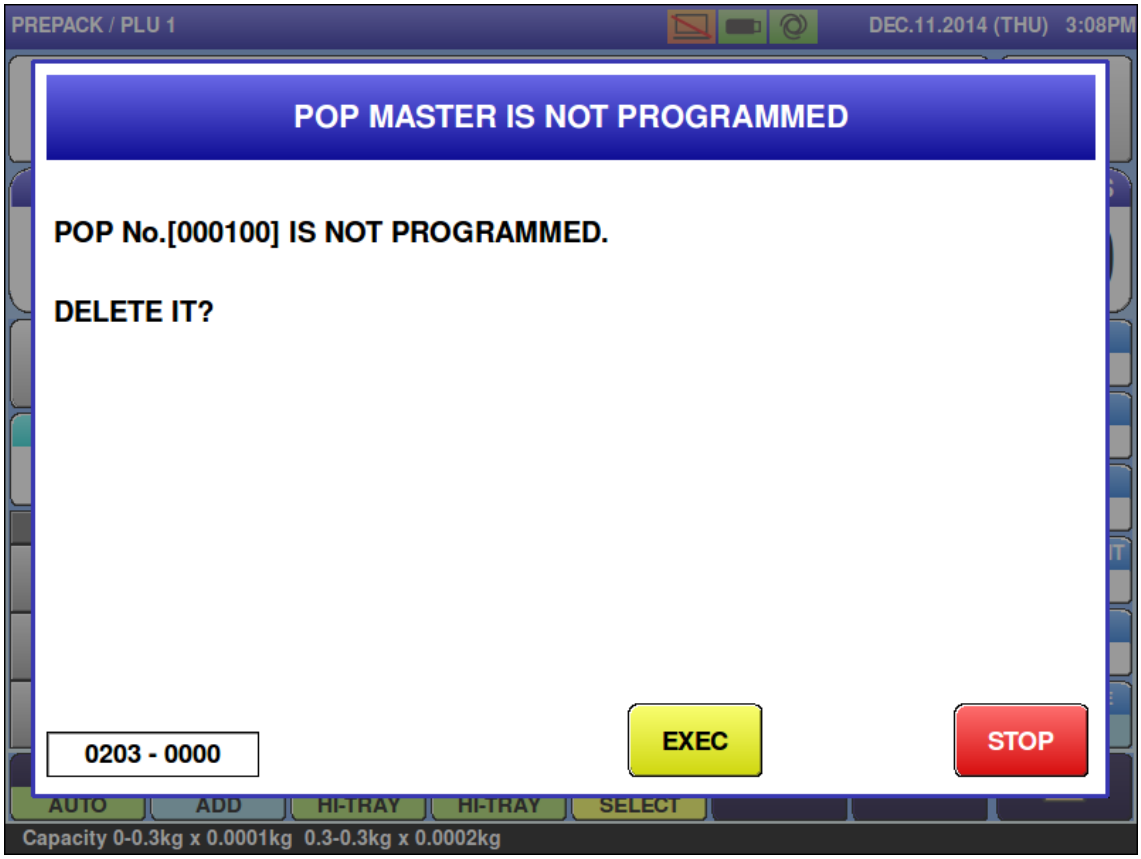
6.3.2 Memory-related Error (No. 200s)

■ PLU master is not programmed (0202)



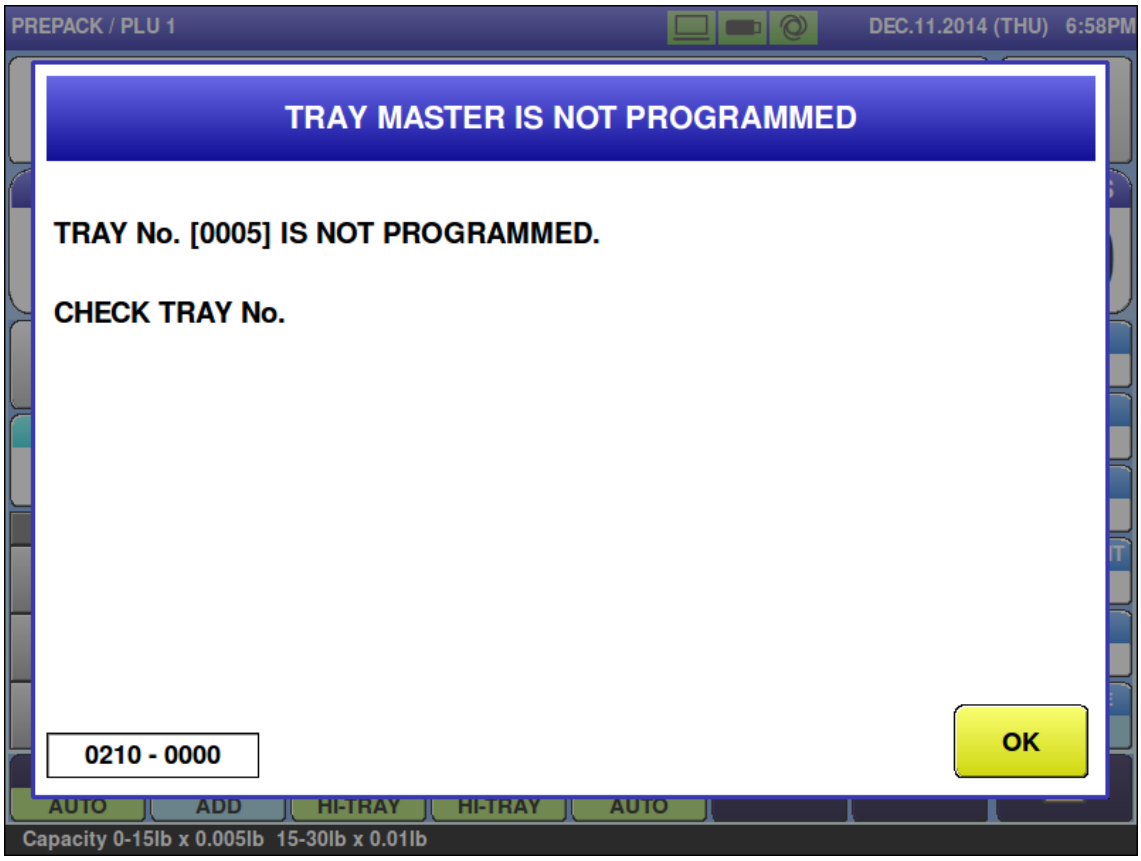
Error content	PLU master is not programmed
Detail	Does not exist in internal master.
Solution	[OK] button
Action by user	Reconfirm the PLU No. Add the product master.
Action by service representative	Confirm the master. Setting mode (Production): Confirm the auto product deletion setting.
Related part	Main board
Remarks	The product number is displayed.

■ POP master is not programmed (0203)



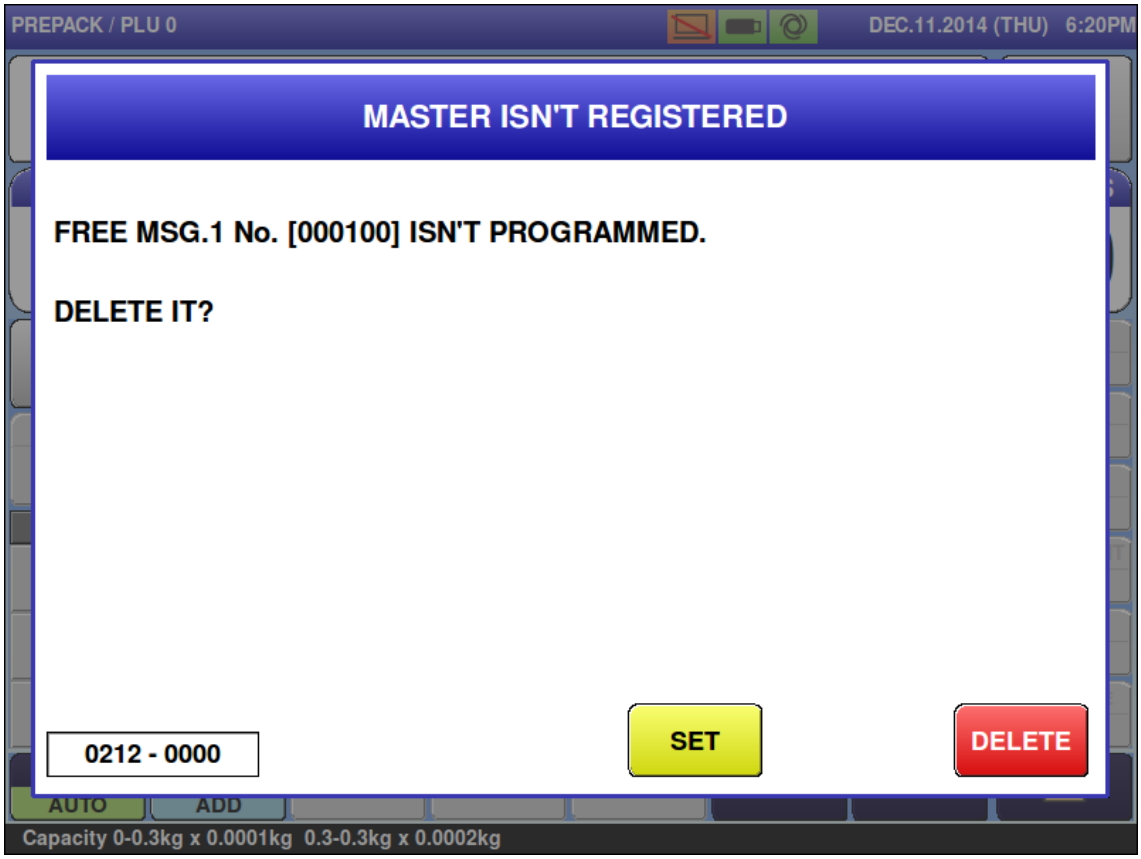
Error content	POP master is not programmed.
Detail	Does not exist in internal master.
Solution	[EXEC] button => Delete Product Master POP No. [STOP] button => Cancel error.
Action by user	Reconfirm the POP number. Add the POP master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	The POP No. is displayed. In the case of no automatic POP No. update, product master is not changed. Error screen can be changed in link master error settings.

■ Tray master is not programmed (0210)



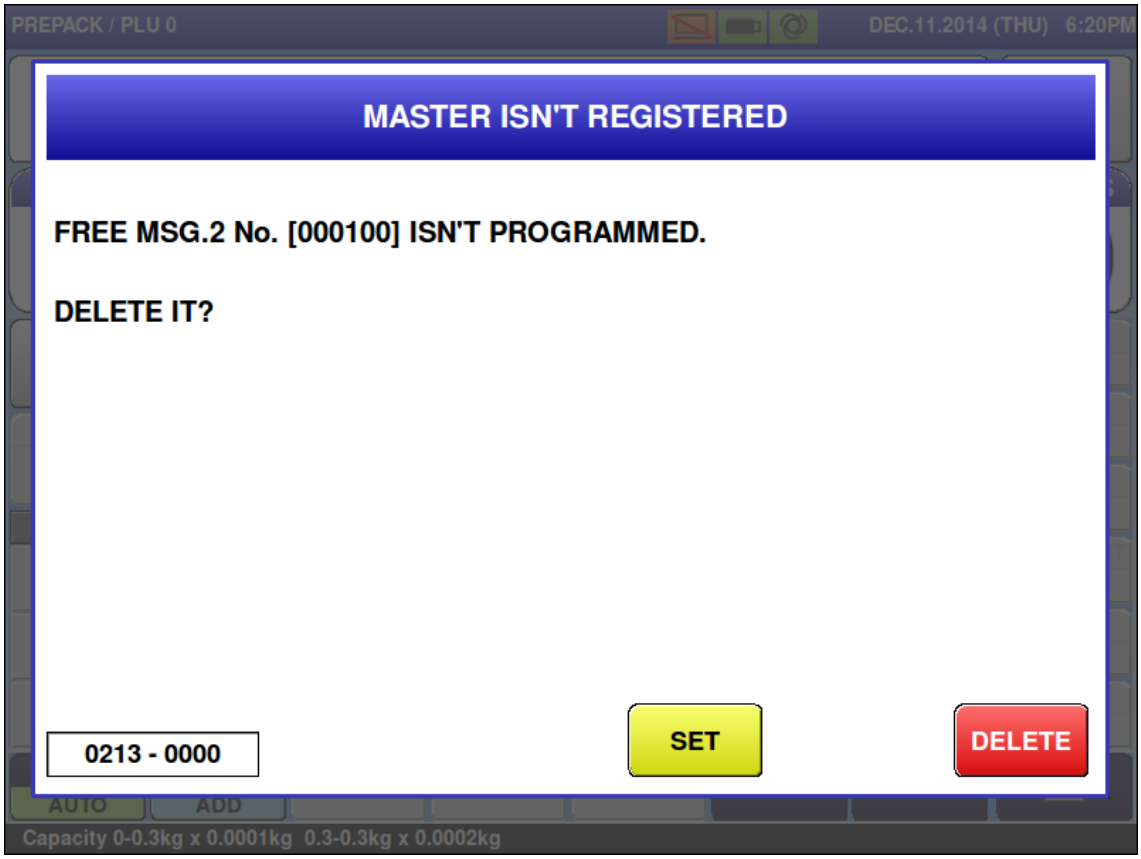
Error content	Tray master is not programmed.
Detail	Does not exist in internal master.
Solution	[OK] button
Action by user	Reconfirm the tray master number. Add the tray master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	Tray master No. is registered.

■ Free 1 master is not registered (0212)



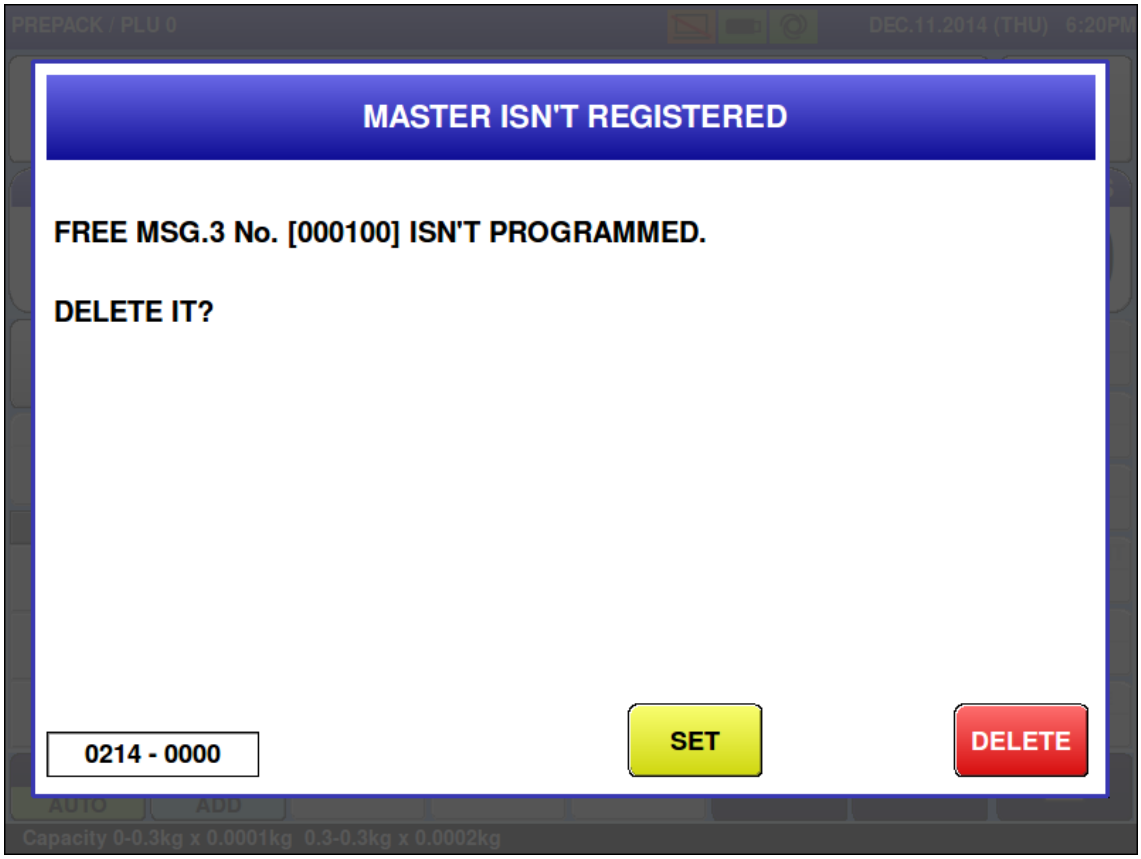
Error content	Free 1 master is not registered.
Detail	Does not exist in internal master.
Solution	[DELETE] button => Delete free No.1 of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 1 master number. Add free 1 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・Free 1 is displayed. ・In the case of no free 1 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "Free master name settings".

■ Free 2 master is not registered (0213)



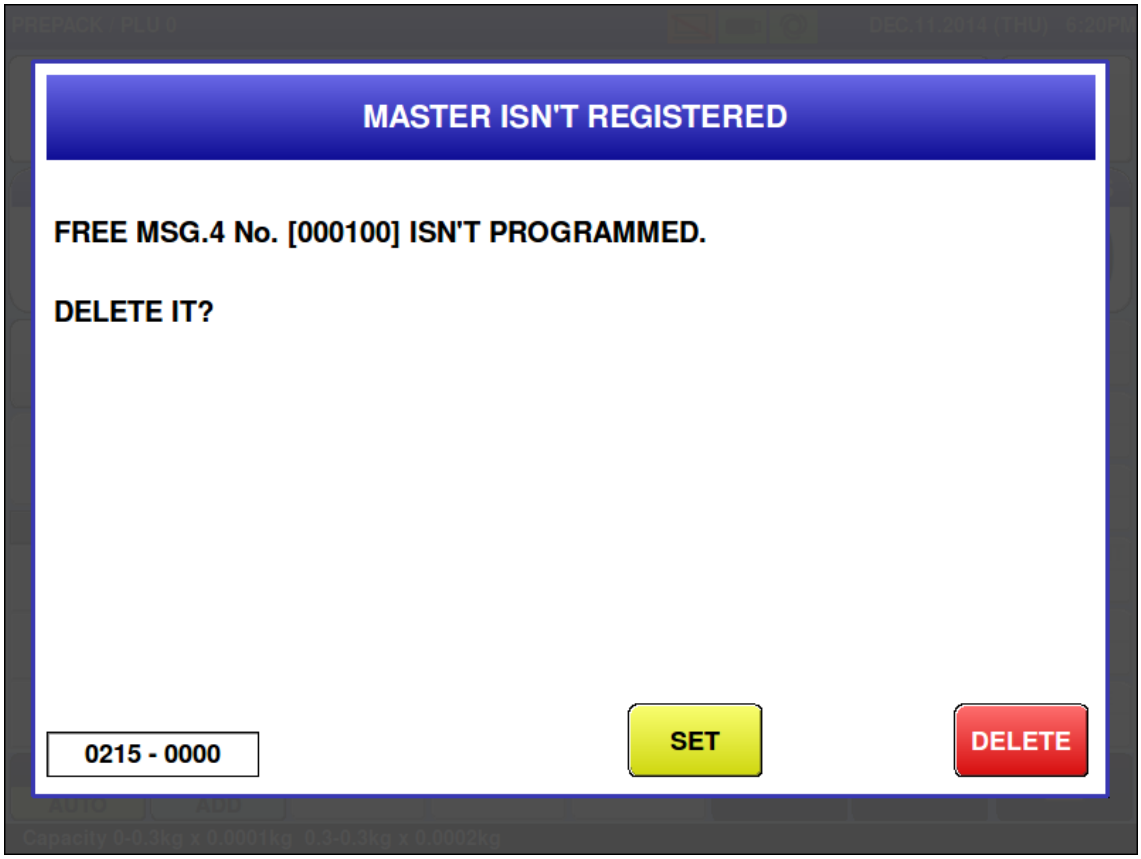
Error content	Free 2 master is not registered.
Detail	Does not exist in internal master.
Solution	[DELETE] button => Delete free No. 2 of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 2 master number. Add free 2 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・Free 2 is displayed. ・In the case of no free 2 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "Free master name settings".

■ Free 3 master is not registered (0214)



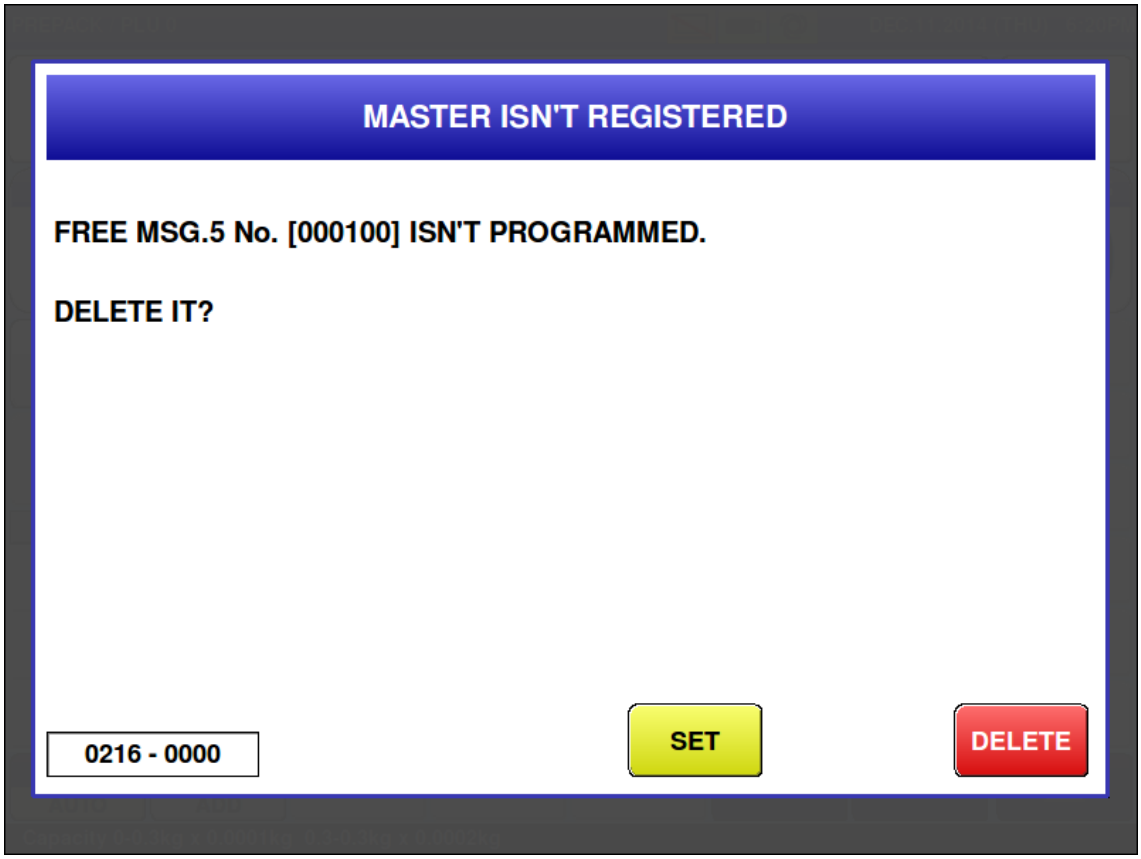
Error content	Free 3 master is not registered.
Detail	Does not exist in internal master.
Solution	[DELETE] button => Delete free No. 3 of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 3 master number. Add the free 3 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・Free 3 is displayed. ・In the case of no free 3 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "Free master name settings".

■ Free 4 master is not registered (0215)



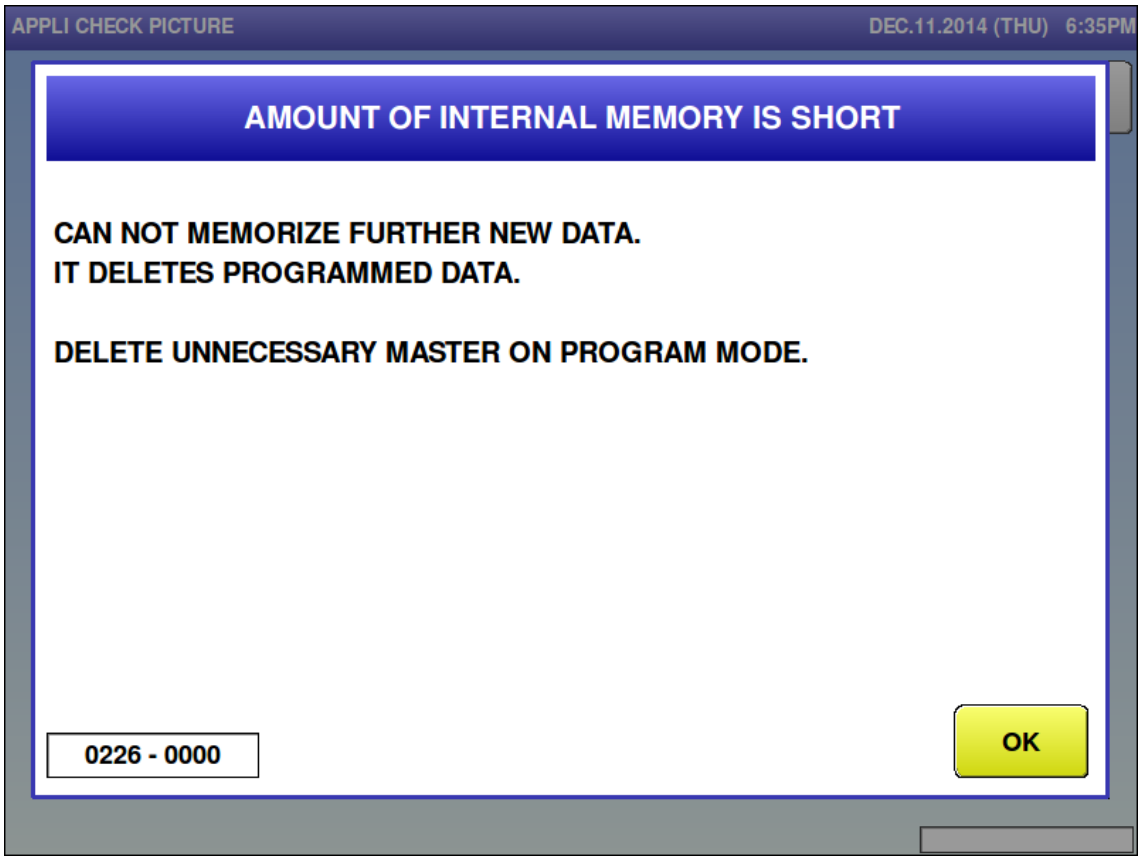
Error content	Free 4 master is not registered.
Detail	Does not exist in internal master.
Solution	[DELETE] button => Delete free No. 4 of product master. [SET] button => Cancel error.
Action by user	Confirm the free 4 master number. Add free 4 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・Free 4 is displayed. ・In the case of no free 4 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "Free master name settings".

■ Free 5 master is not registered (0216)



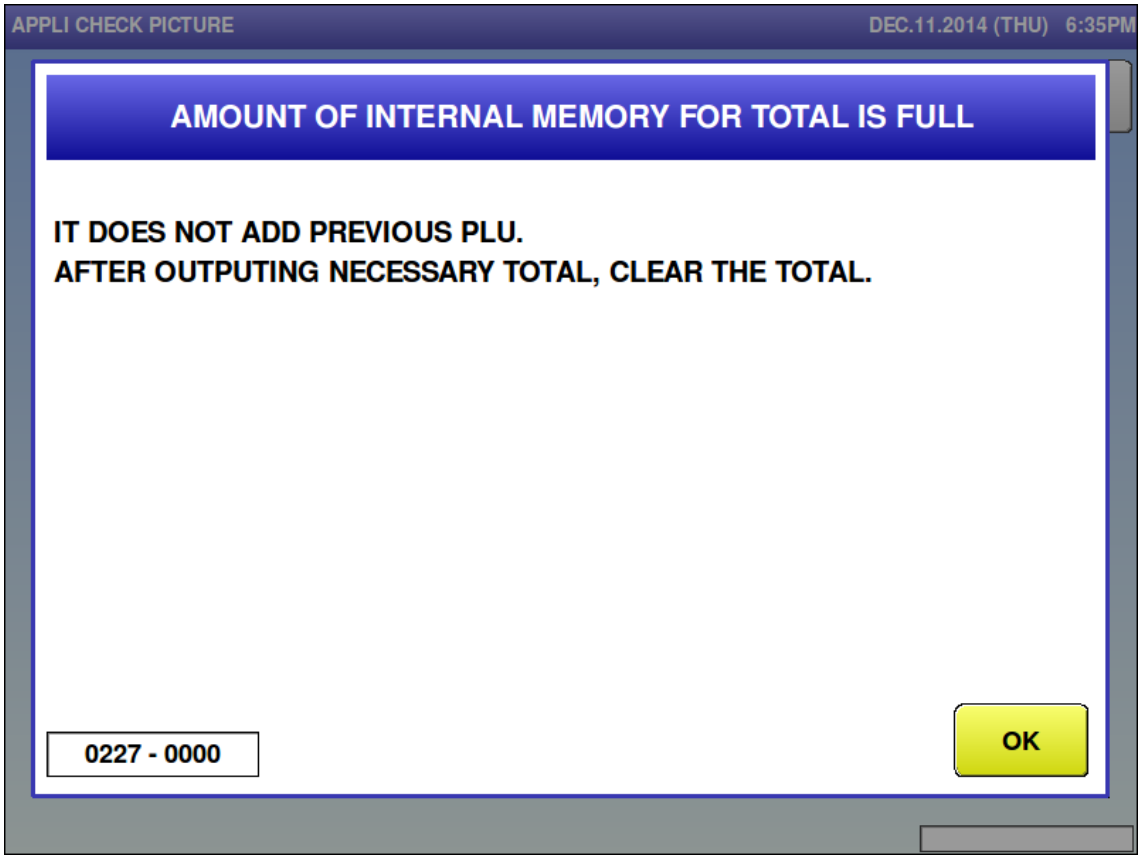
Error content	Free 5 master is not registered.
Detail	Does not exist in internal master.
Solution	[DELETE] button => Delete free No. 5 of product master. [SET] button => Cancel error.
Action by user	Confirm the free 5 master number. Add free 5 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・Free 5 is displayed. ・In the case of no free 5 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "Free master name settings"

■ Amount of internal memory is short (0226)



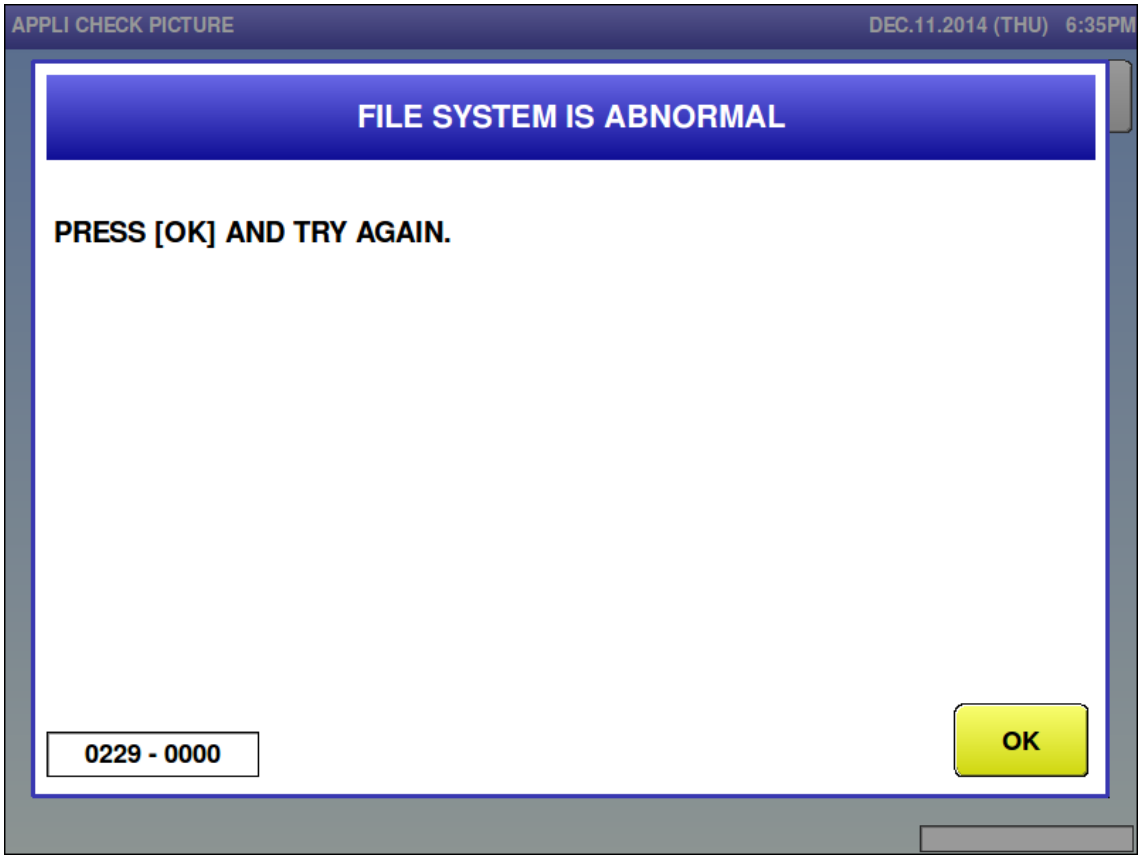
Error content	Amount of internal memory is short
Detail	Error indicates that memory space is insufficient when saving master to DB.
Solution	[OK] button, organize memory. Delete unnecessary data for each master using the “Organize Memory“ function key.
Action by user	Perform Organize Memoryusing the [Organize Memory] function key. Delete unnecessary masters.
Action by service representative	Perform Organize Memory. Delete unnecessary masters.
Related part	Main board
Remarks	Sub error indicates each master No...

■ Amount of internal memory for total is full (0227)



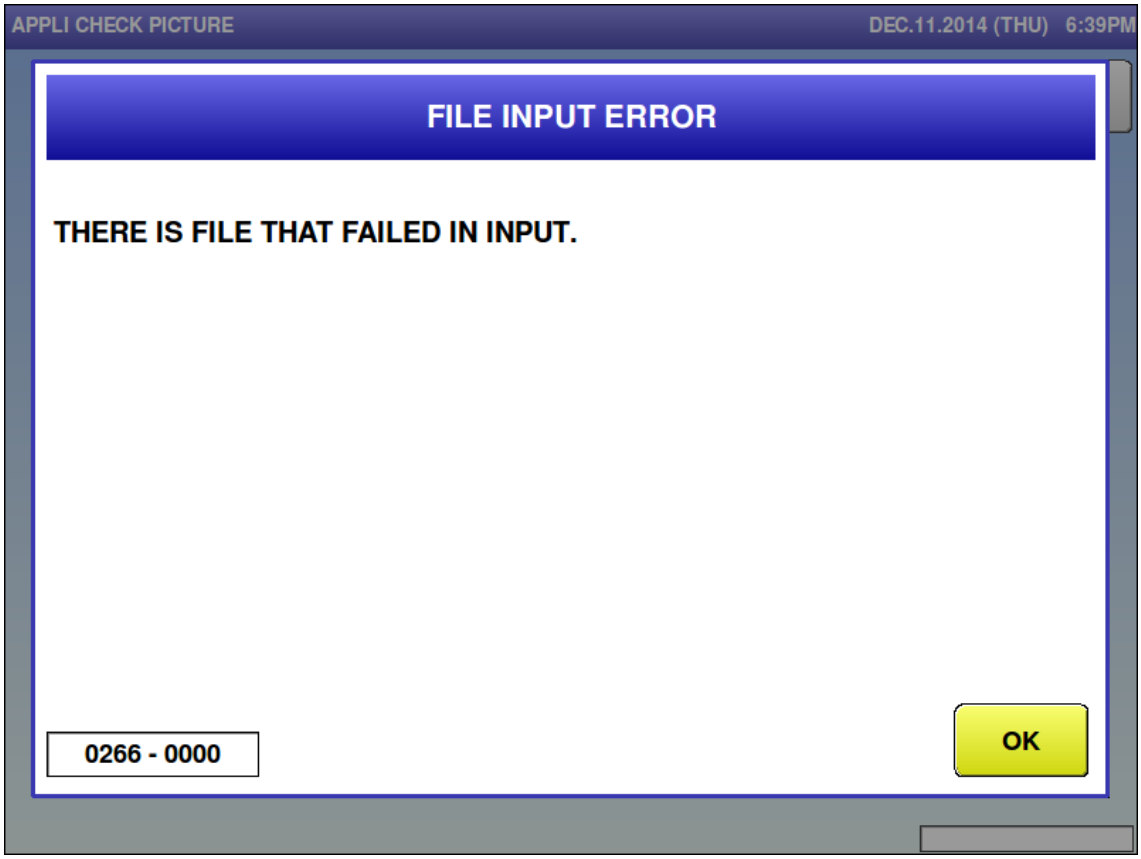
Error content	Amount of internal memory for total is full
Detail	Error indicates that internal memory is insufficient when saving production result.
Solution	[OK] button and clear the total. Organize memory using the [Organize Memory] function key.
Action by user	Perform [Organize Memory] using the [Organize Memory] function key after deleting summary data. Delete unnecessary masters.
Action by service representative	Perform [Organize Memory]. Delete unnecessary masters.
Related part	Main board
Remarks	Make sure to organize memory after clearing the total.

■ File system is abnormal (0229)



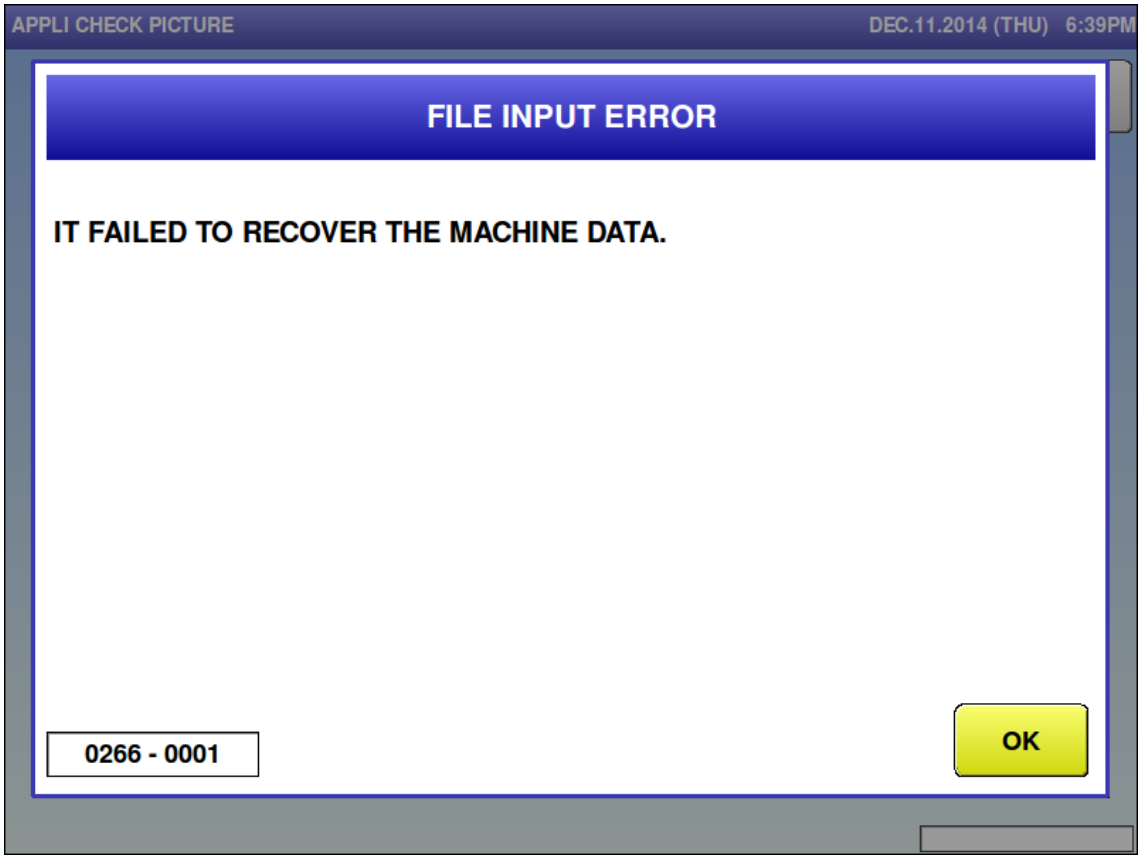
Error content	Occurs when there is an internal file is abnormal.
Detail	Failure of access to the program file of copy source, copy destination, and delete destination when downloading program.
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master. Perform memory initialization. After that input the backup data.
Related part	Main board
Remarks	Check the program file of copy source, copy destination, and delete destination.

■ File input error (0266－0000)



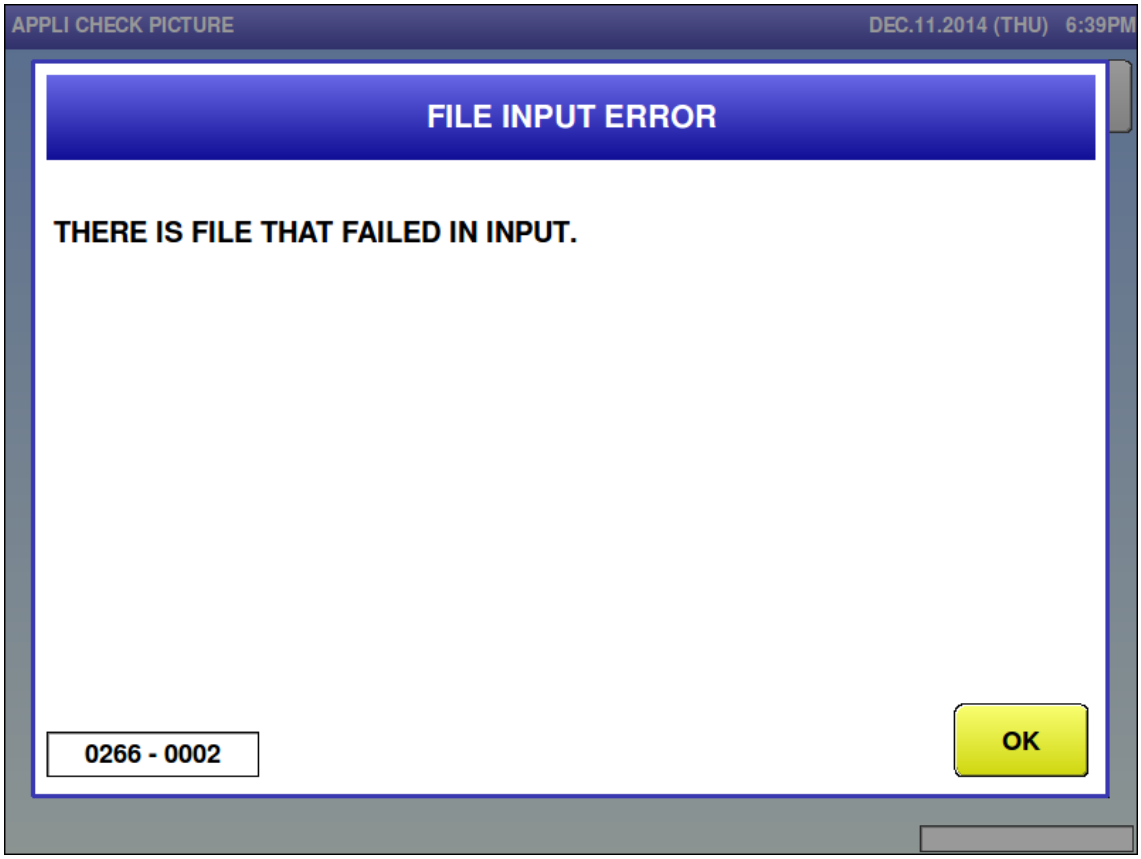
Error content	There is file that failed in input from external to internal device on the [SETUP: FILE SAVE/LOAD(INPUT) screen.
Detail	Input data is separated by sub-error No. 0000: Master data
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

■ File input error (0266－0001)



Error content	There is file that failed in input from external to internal device on the [SETUP: FILE SAVE/LOAD(INPUT) screen.
Detail	Input data is separated by sub-error No. 0001: SRAM data
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

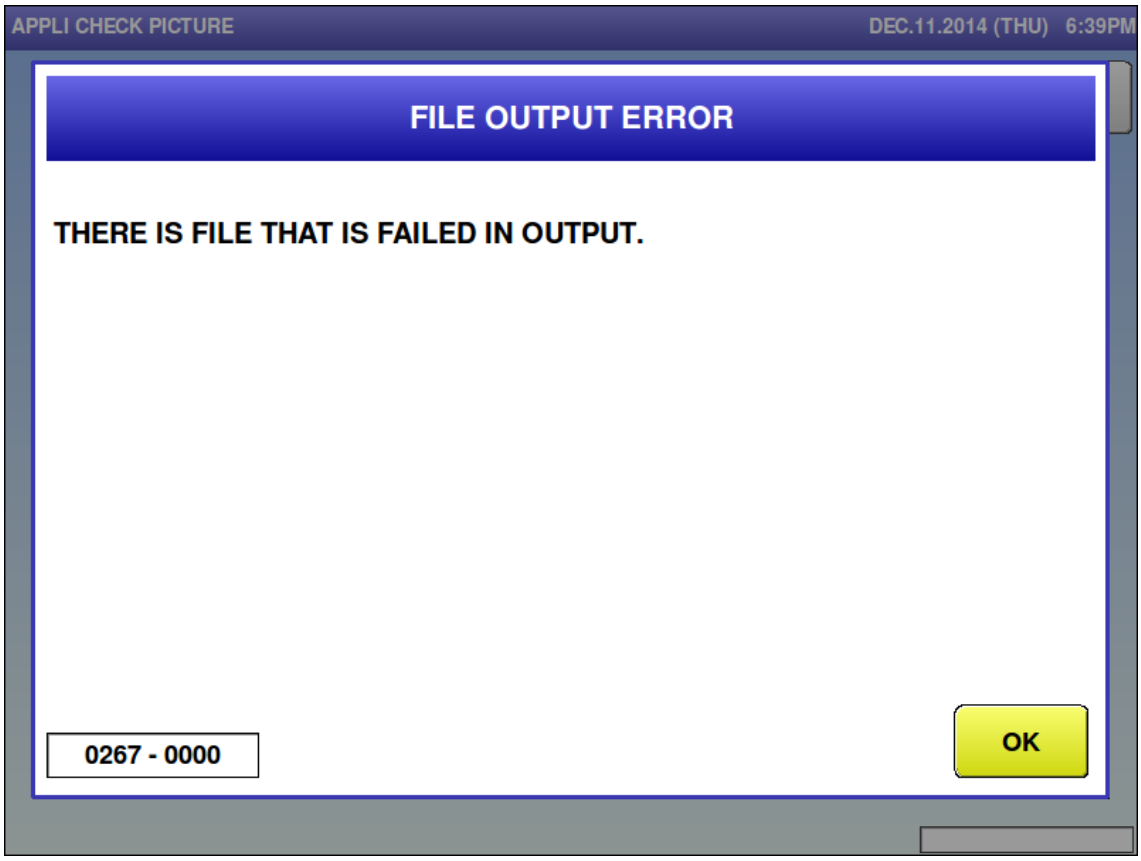
■ File input error (0266－0002)



Error content	There is file that failed in input from external to internal device on the [SETUP: FILE SAVE/LOAD(INPUT) screen.
Detail	Input data is separated by sub-error No. 0002: Master data (all master)
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

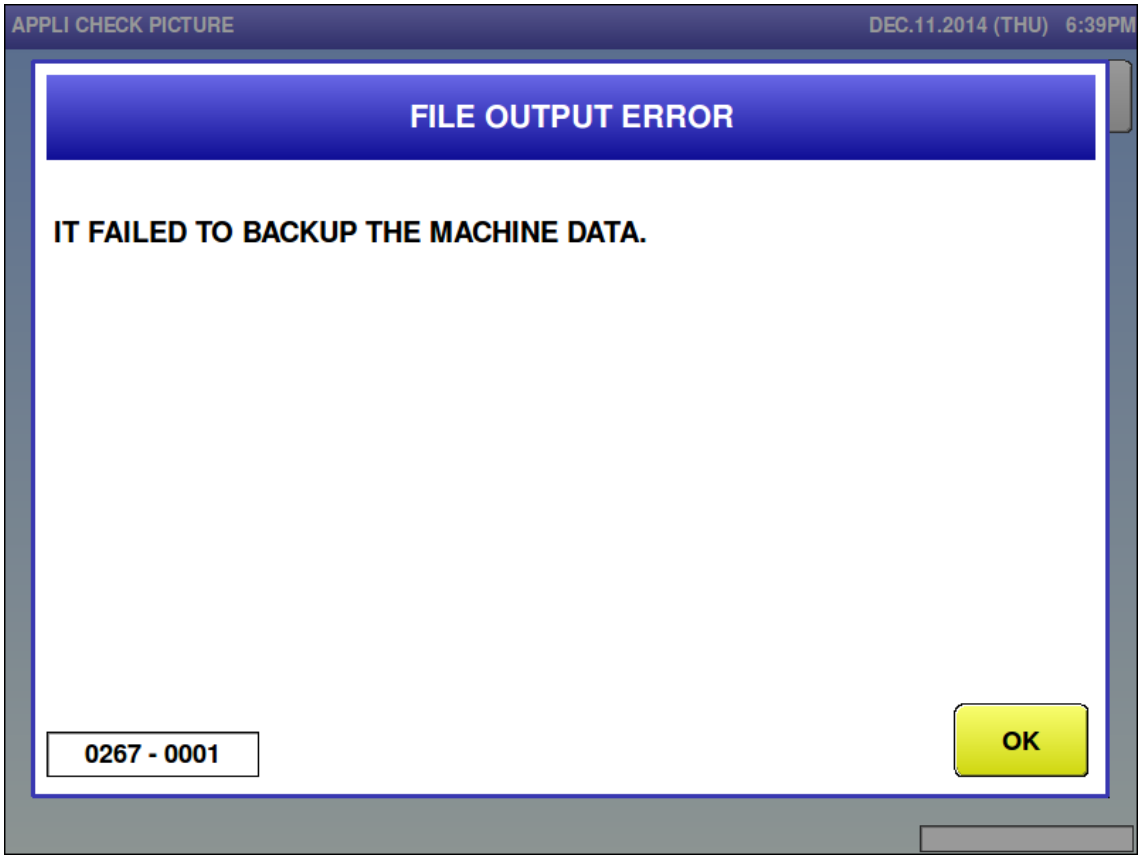
■ File output error (0267－0000)

File output error of master data



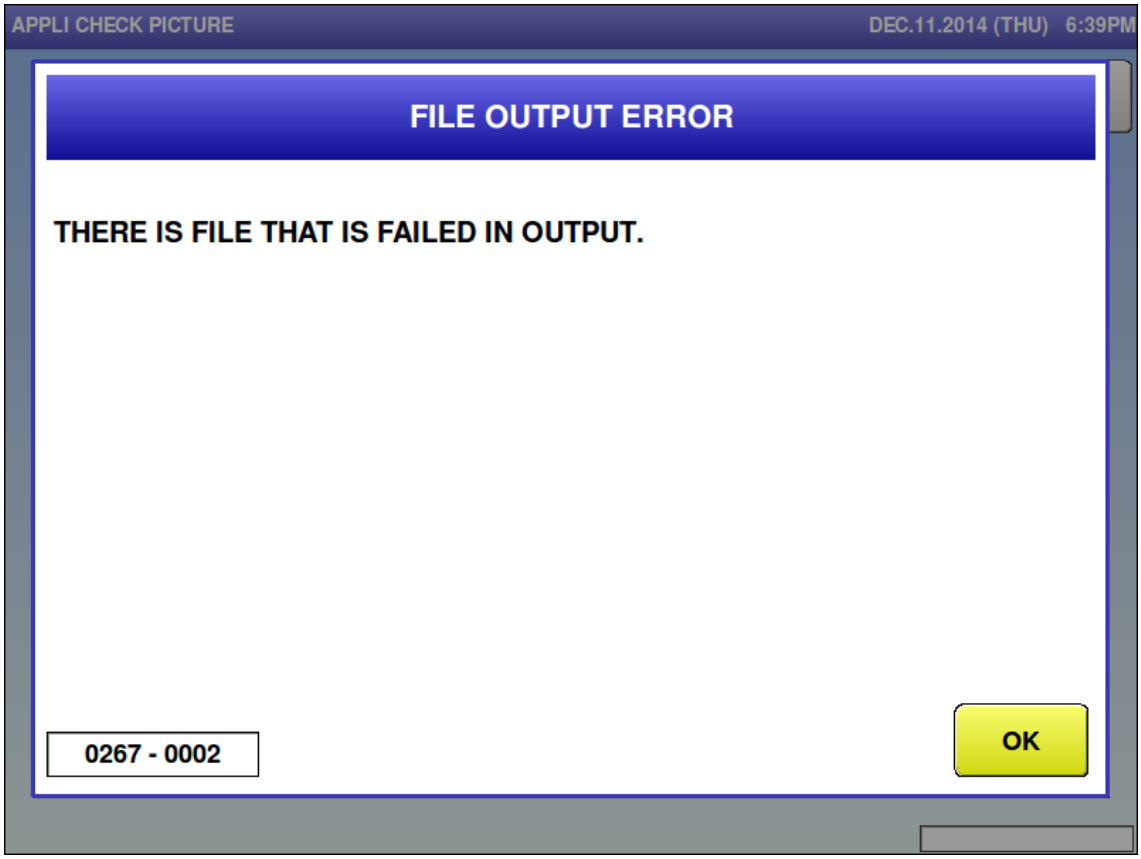
Error content	There is file that failed in output from internal to internal device on the [SETUP: FILE SAVE/LOAD(OUTPUT)] screen.
Detail	Output source data is separated by sub-error No. 0000: Master data
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

■ File output error (0267－0001)



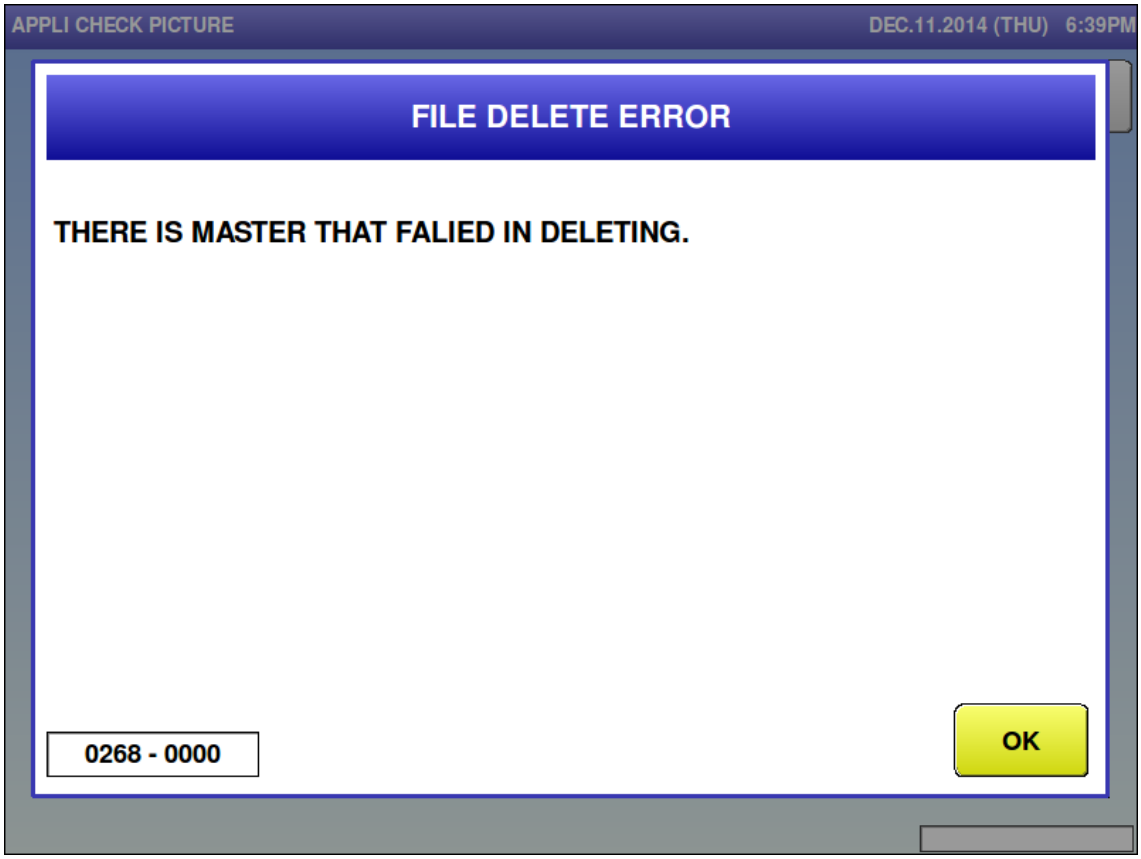
Error content	There is file that failed in output from internal to internal device on the [SETUP: FILE SAVE/LOAD(OUTPUT)] screen.
Detail	Output source data is separated by sub-error No. 0001: SRAM data
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

■ File output error (0267－0002)



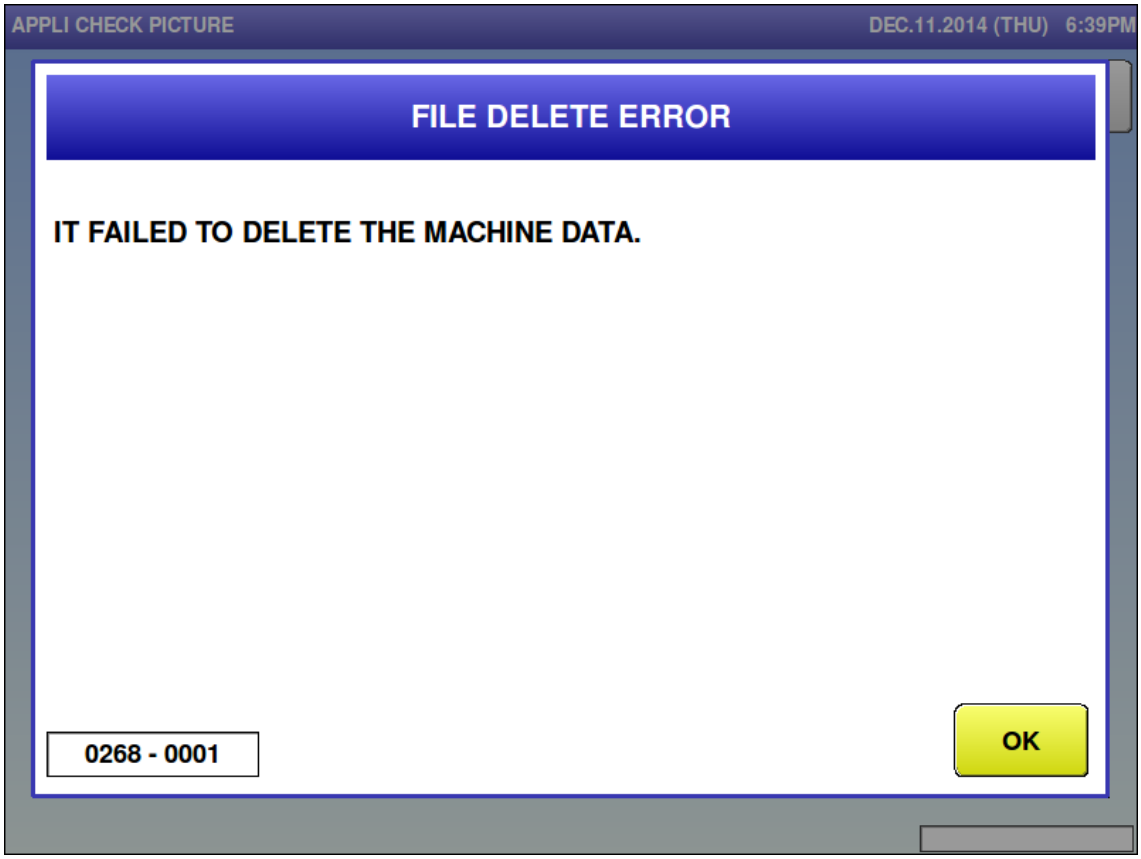
Error content	There is file that failed in output from internal to internal device on the [SETUP: FILE SAVE/LOAD(OUTPUT)] screen.
Detail	Output source data is separated by sub-error No. 0002: Master data (all master)
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

■ File delete error (0268－0000)



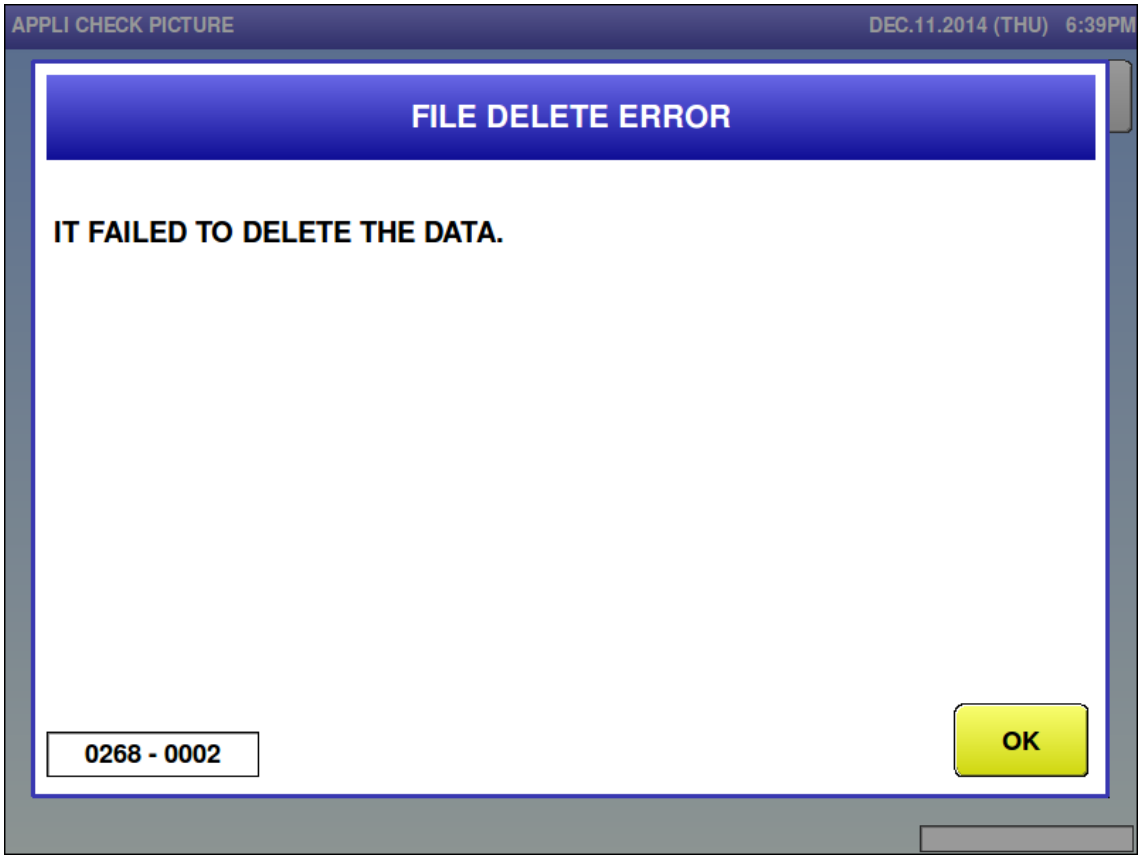
Error content	There is external device data or SRAM data that failed in deleting on the [SETUP: FILE SAVE/LOAD(DELETE)] screen.
Detail	Data to delete is separated by sub-error No. 0000: External device data (master specified)
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

■ File delete error (0268－0001)



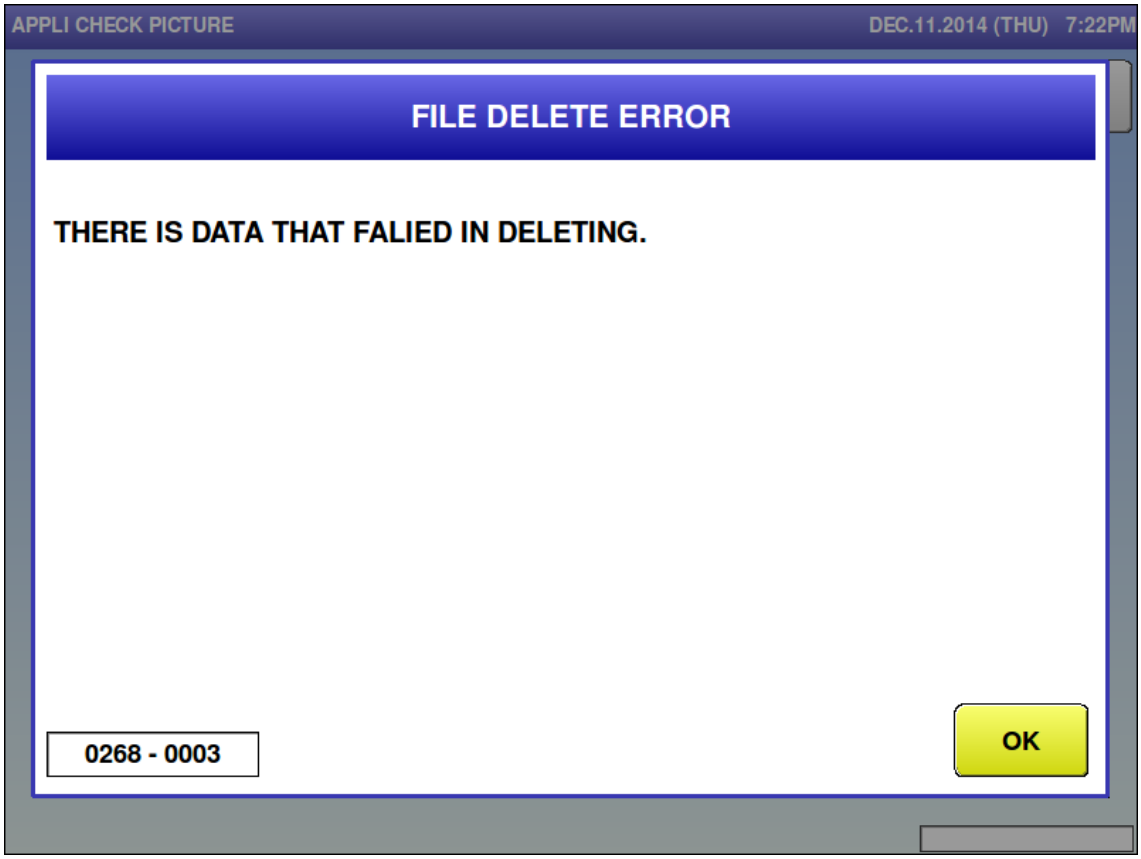
Error content	There is external device data or SRAM data that failed in deleting on the [SETUP: FILE SAVE/LOAD(DELETE)] screen.
Detail	Data to delete is separated by sub-error No. 0001: SRAM data
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

■ File delete error (0268－0002)



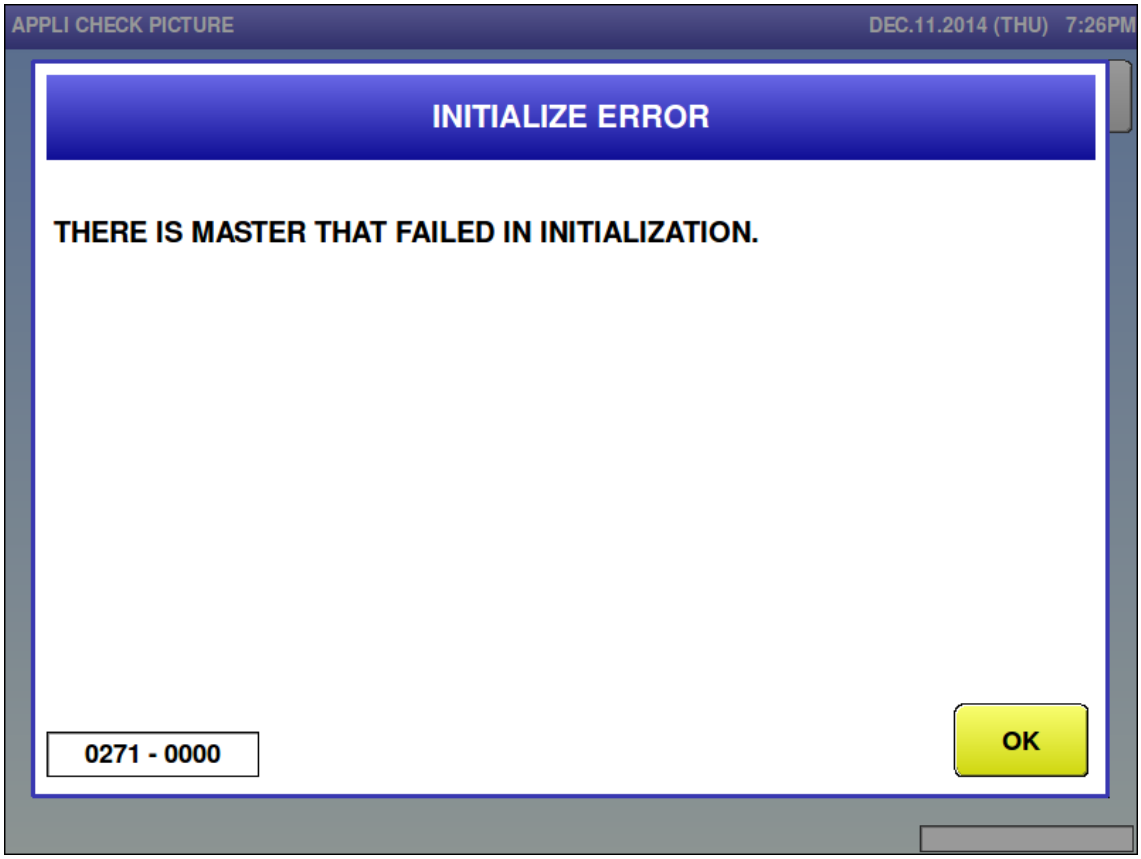
Error content	There is external device data or SRAM data that failed in deleting on the [SETUP: FILE SAVE/LOAD(DELETE)] screen.
Detail	Data to delete is separated by sub-error No. 0002: External device data (data specified)
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

■ File delete error (0268－0003)



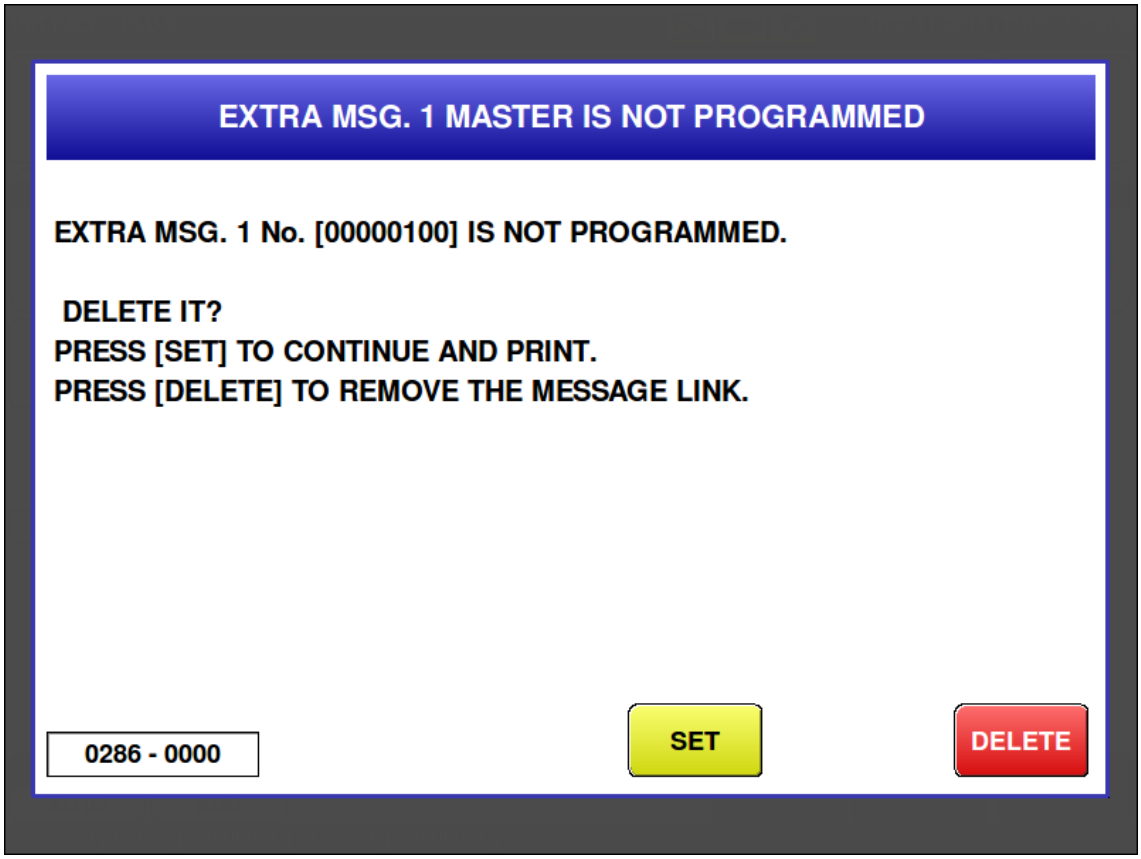
Error content	There is external device data or SRAM data that failed in deleting on the [SETUP: FILE SAVE/LOAD(DELETE)] screen.
Detail	Data to delete is separated by sub-error No. 0003: External device data (all data)
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

■ Initialize error (0271)



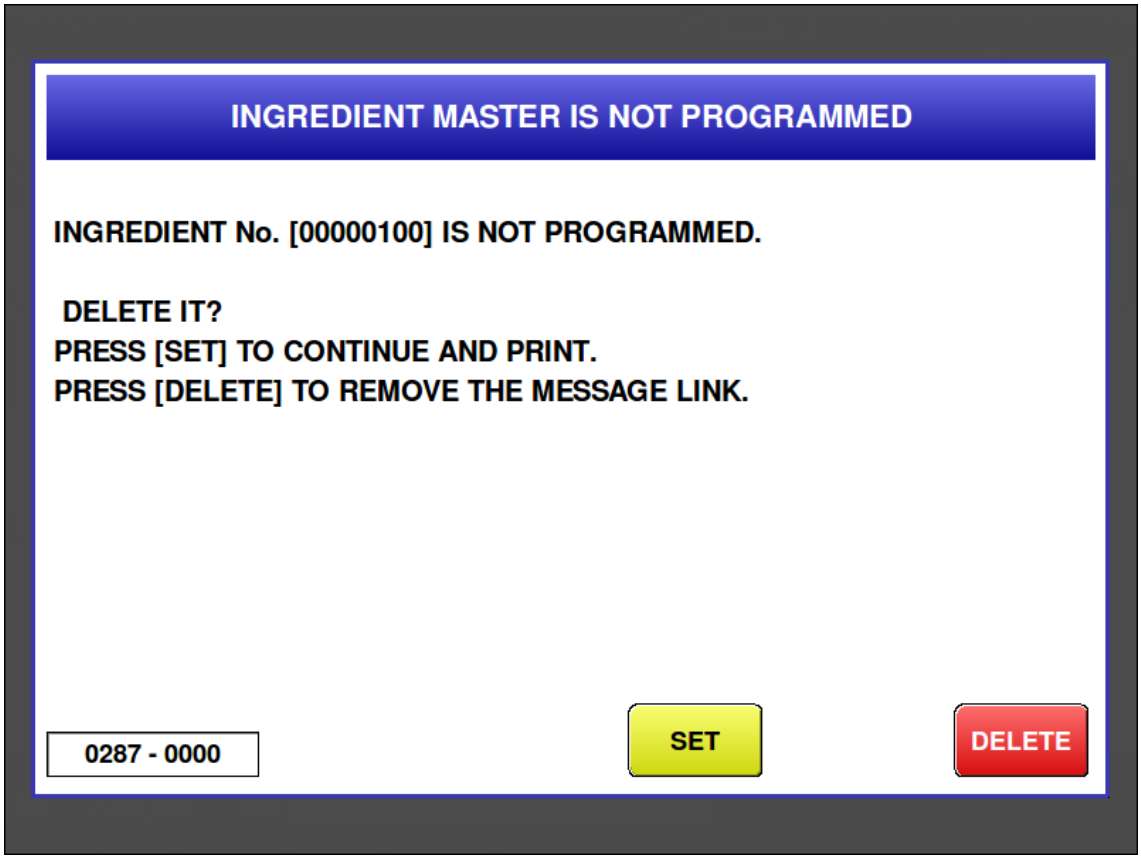
Error content	There is internal master that failed in initialization on the [SETUP: FILE SAVE/LOAD(INIT.)] screen.
Detail	
Solution	[OK] button
Action by user	
Action by service representative	Confirm the internal master data.
Related part	Main board
Remarks	

■ Extra message 1 master is not programmed (0286)



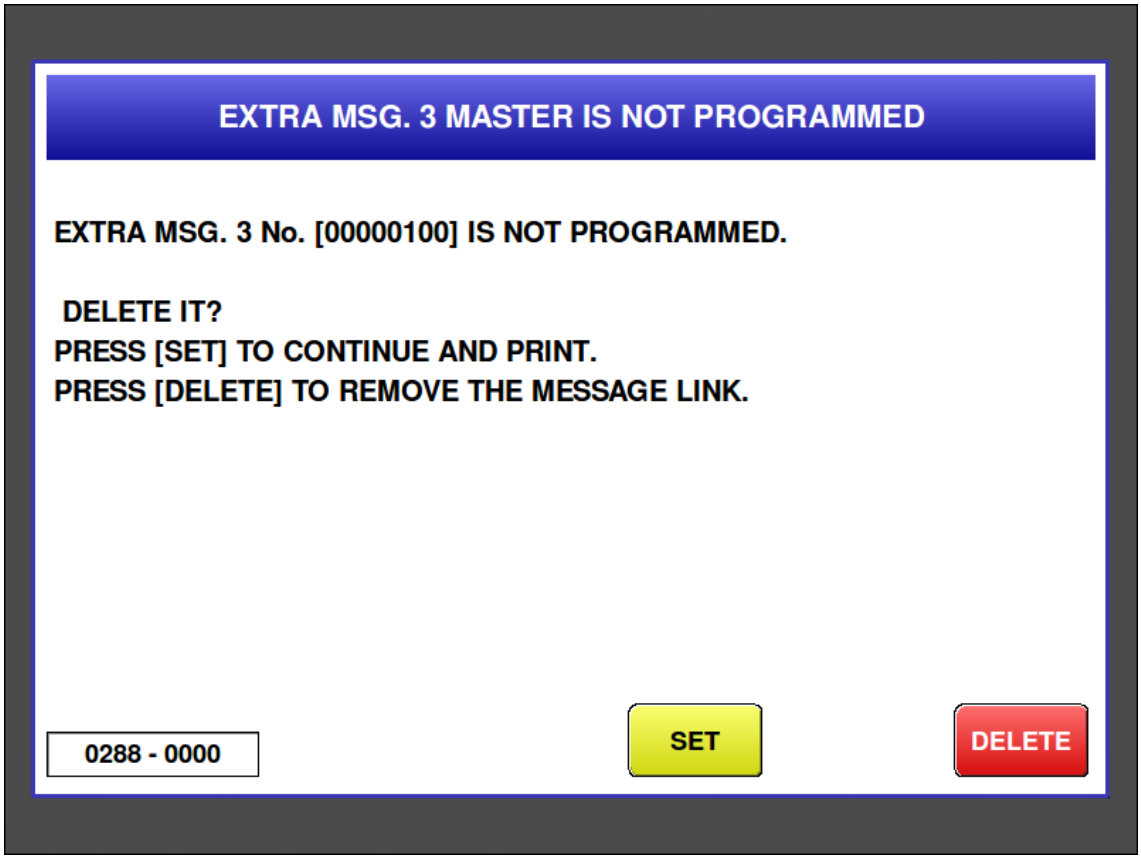
Error content	The called extra message 1 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete extra message 1 No. of product master. [SET] button => Cancel error.
Action by user	Reconfirm the extra message 1 master number. Add the extra message 1 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called extra message 1 No. is displayed. ・In the case of no extra message 1 No. update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Ingredient master is not programmed (0287)



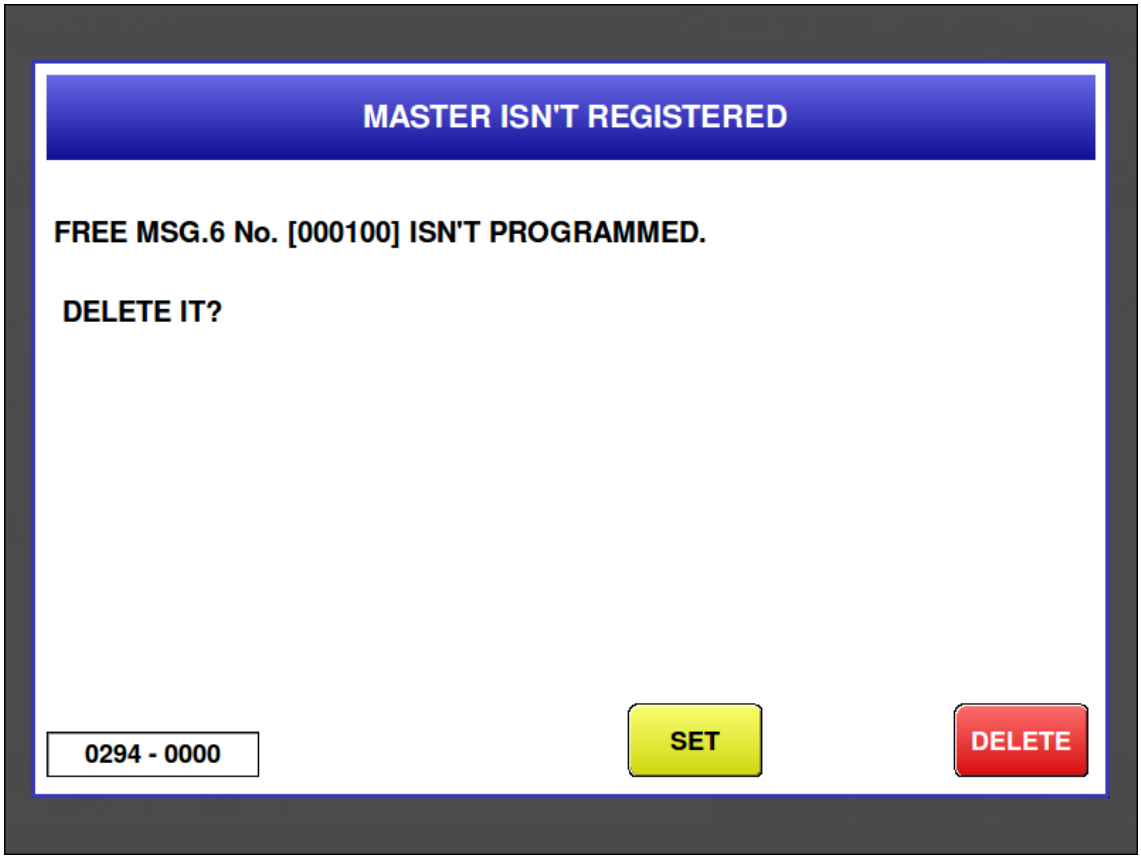
Error content	The called ingredient master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete ingredient No. of product master. [SET] button => Cancel error.
Action by user	Reconfirm the ingredient master number. Add the ingredient master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called ingredient No. is displayed. ・In the case of no ingredient No. update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Extra message 3 master is not programmed (0289)



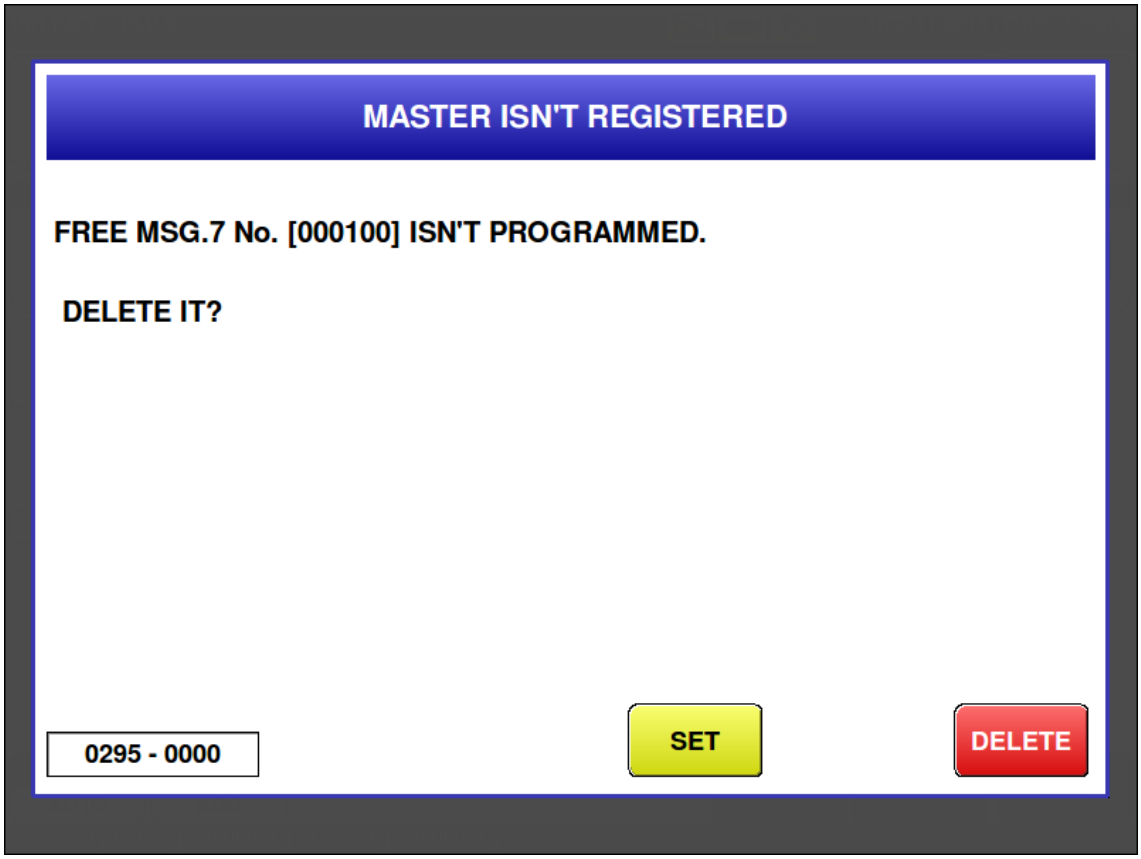
Error content	The called extra message 3 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete extra message 3 No. of product master. [SET] button => Cancel error.
Action by user	Reconfirm the extra message 3 master number. Add the extra message 3 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called extra message 3 No. is displayed. ・In the case of no extra message 3 No. update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Free 6 master is not registered (0294)



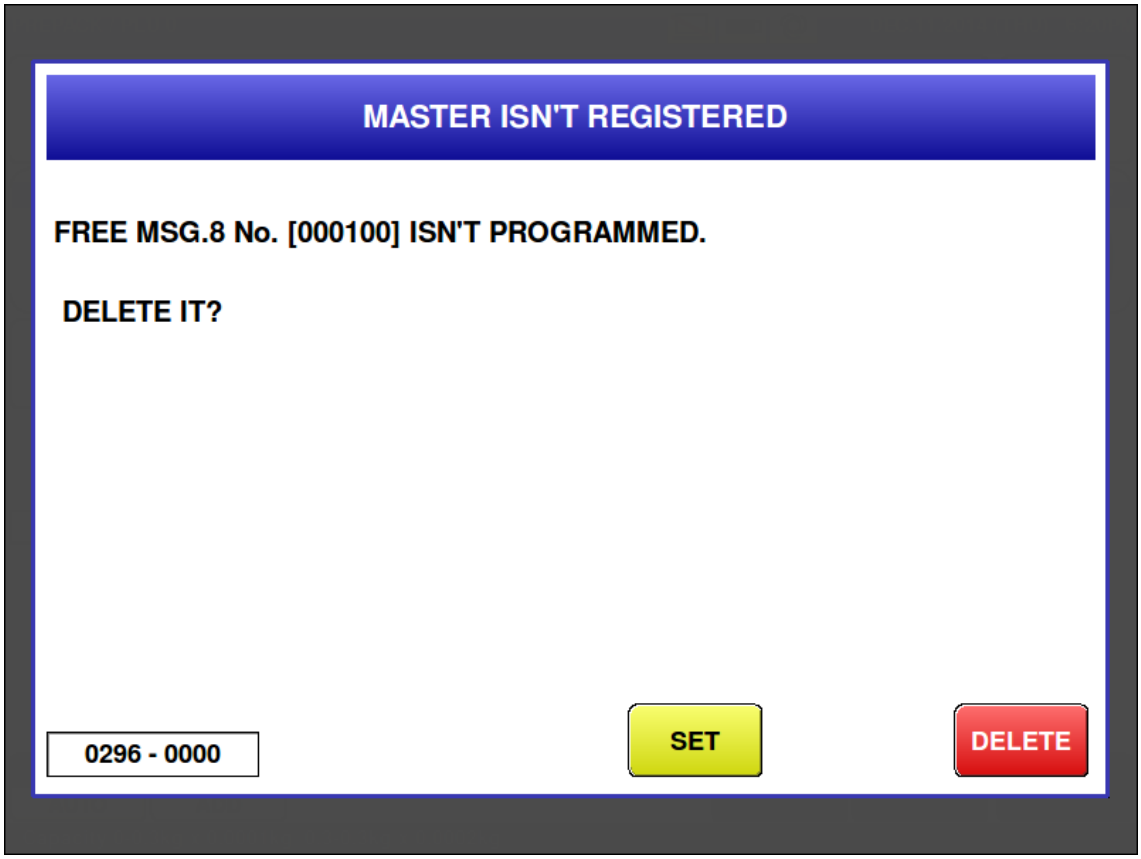
Error content	The called free 6 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free 6 No. of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 6 master number. Add the free 6 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 6 No. is displayed. ・In the case of no free 6 No. update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Free 7 master is not registered (0295)



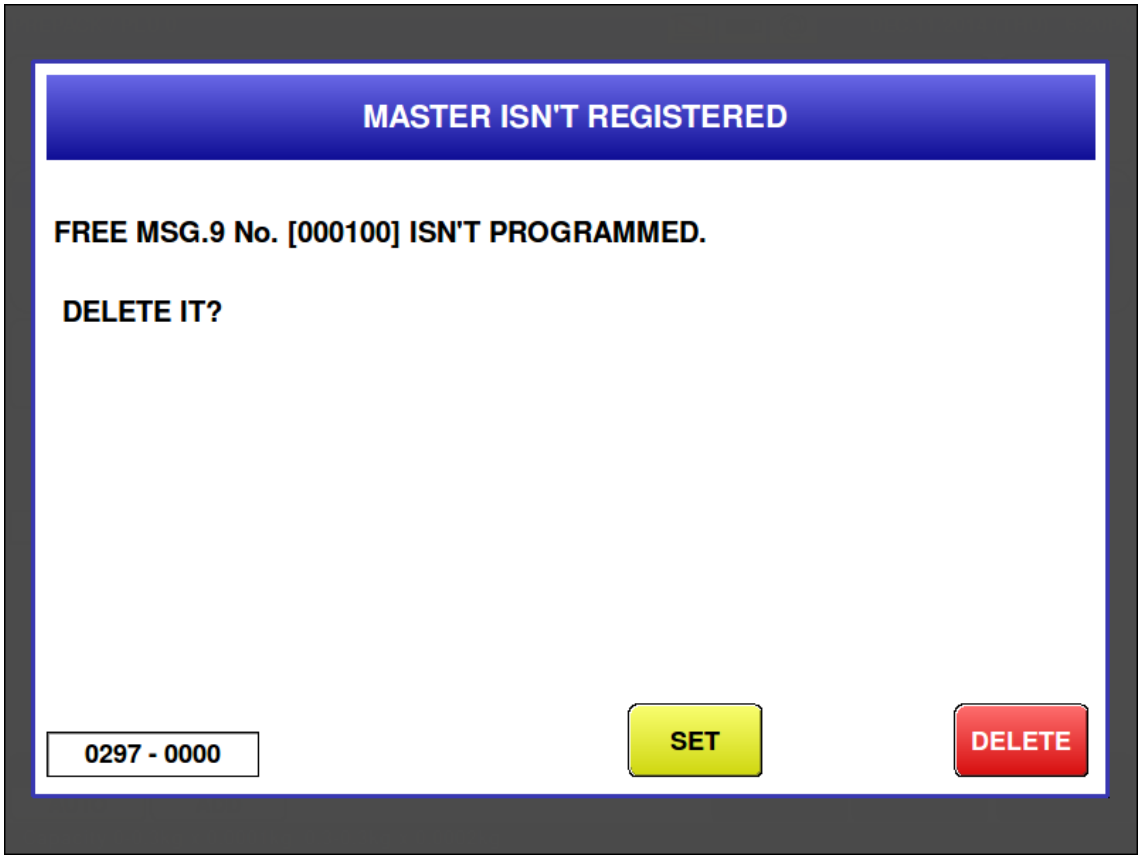
Error content	The called free 7 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free 7 No. of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 7 master number. Add the free 7 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 7 No. is displayed. ・In the case of no free 7 No. update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Free 8 master is not registered (0296)



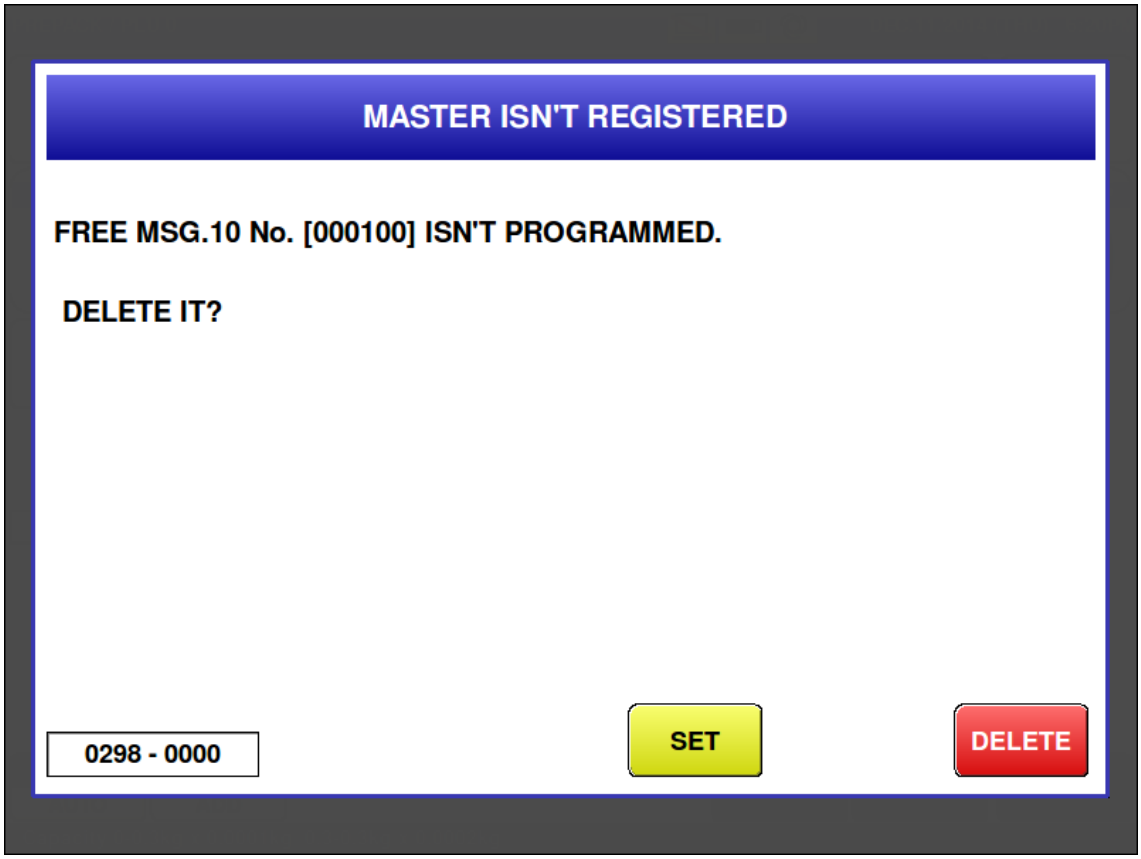
Error content	The called free 8 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free 8 No. of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 8 master number. Add the free 8 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 8 No. is displayed. ・In the case of no free 8 No. update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Free 9 master is not registered (0297)



Error content	The called free 9 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free 9 No. of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 9 master number. Add the free 9 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 9 No. is displayed. ・In the case of no free 9 No. update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

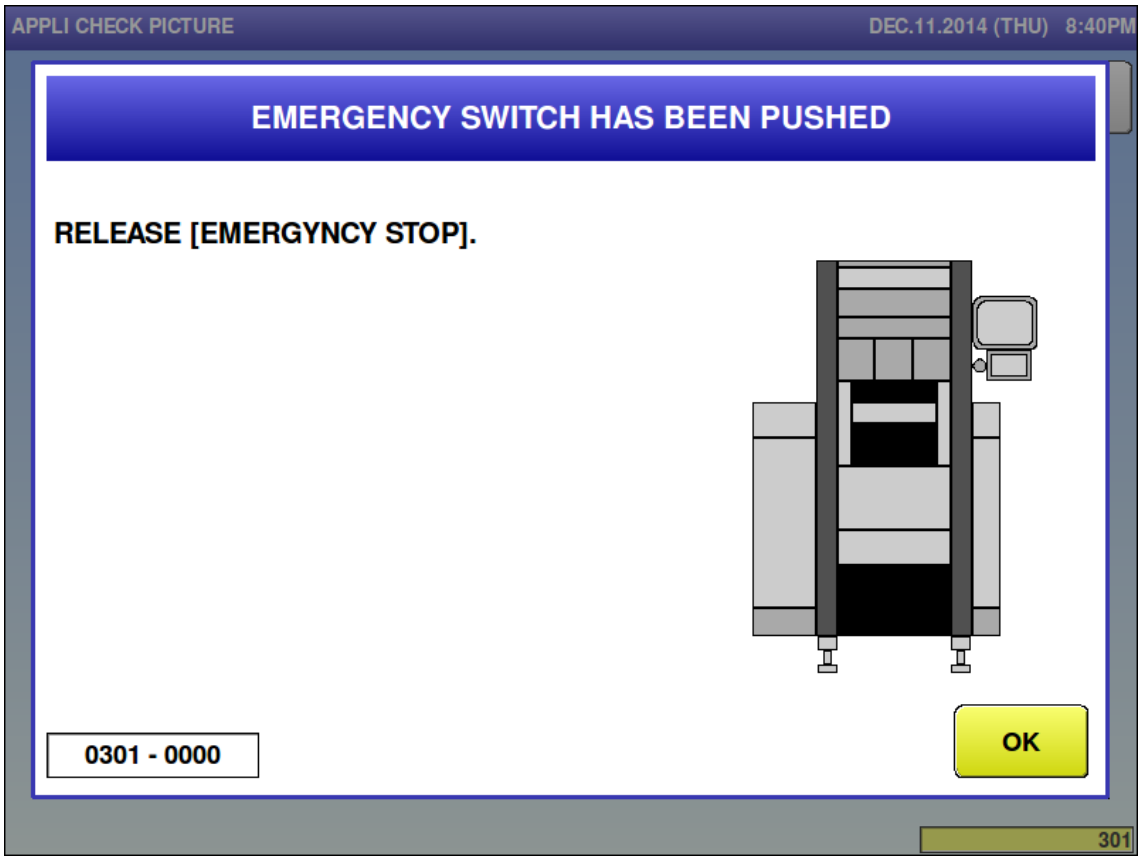
■ Free 10 master is not registered (0298)



Error content	The called free 10 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free 10 No. of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 10 master number. Add the free 10 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 10 No. is displayed. ・In the case of no free 10 No. update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

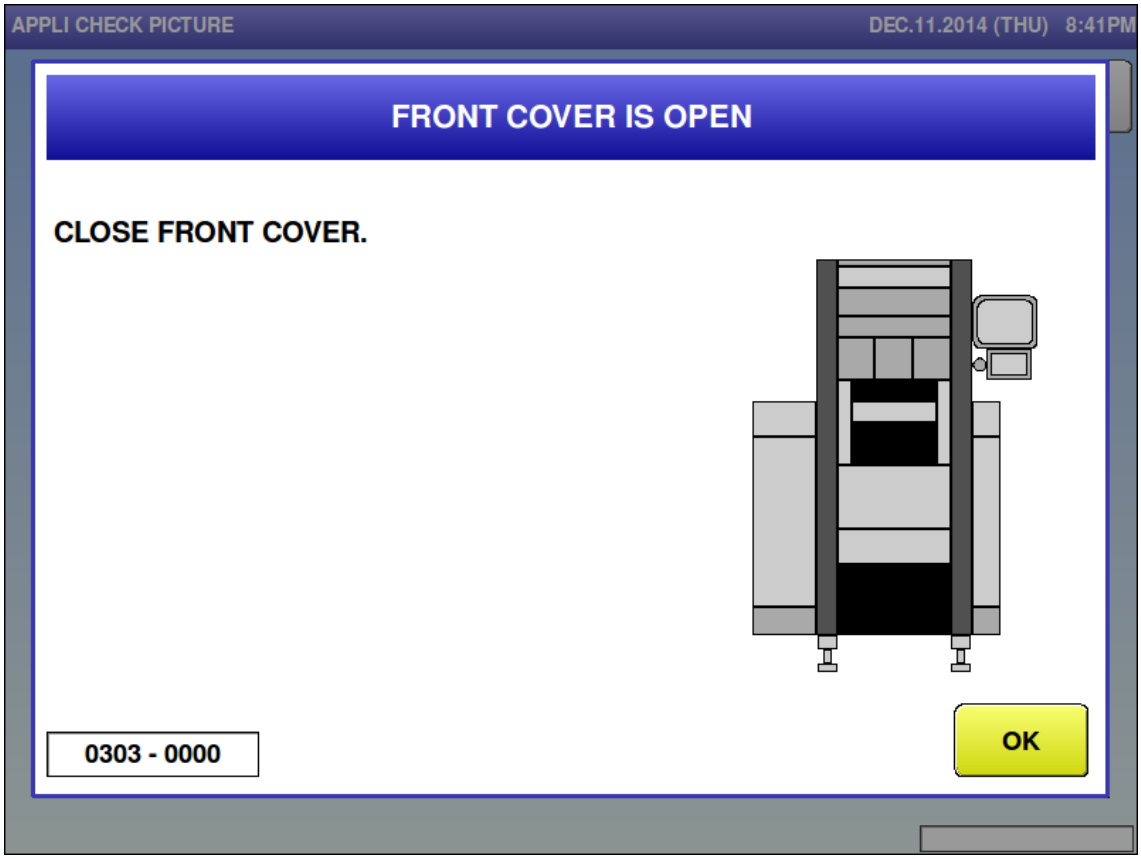
6.3.3 Precheck-related Error (No. 300s)

■ Emergency switch has been pushed (0301)



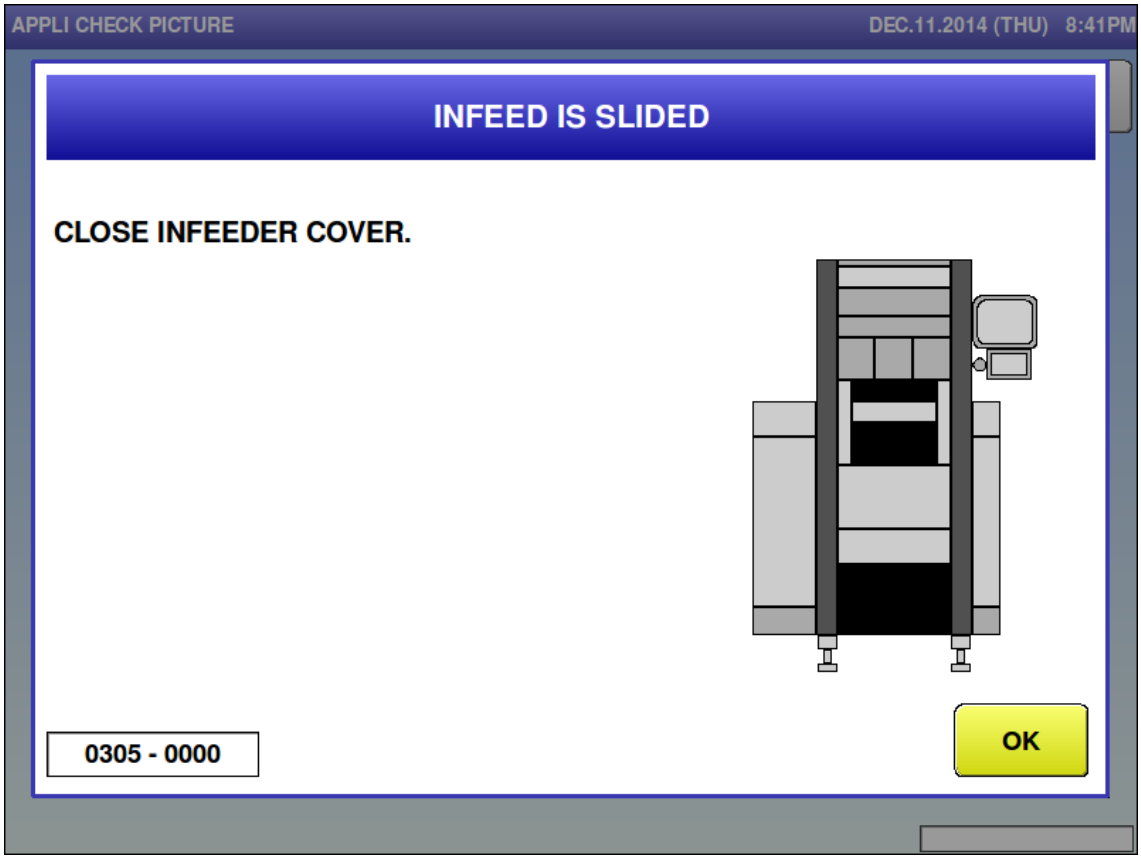
Error content	Emergency switch has been pushed
Detail	The emergency stop switch is pushed before operation. The emergency stop switch is blinking red on the wrapping unit display.
Solution	Release emergency stop switch, [OK] button.
Action by user	Release the emergency stop button.
Action by service representative	Release the emergency stop button.
Related part	Main board, wrapping machine board
Remarks	

■ Front cover is open (0303)



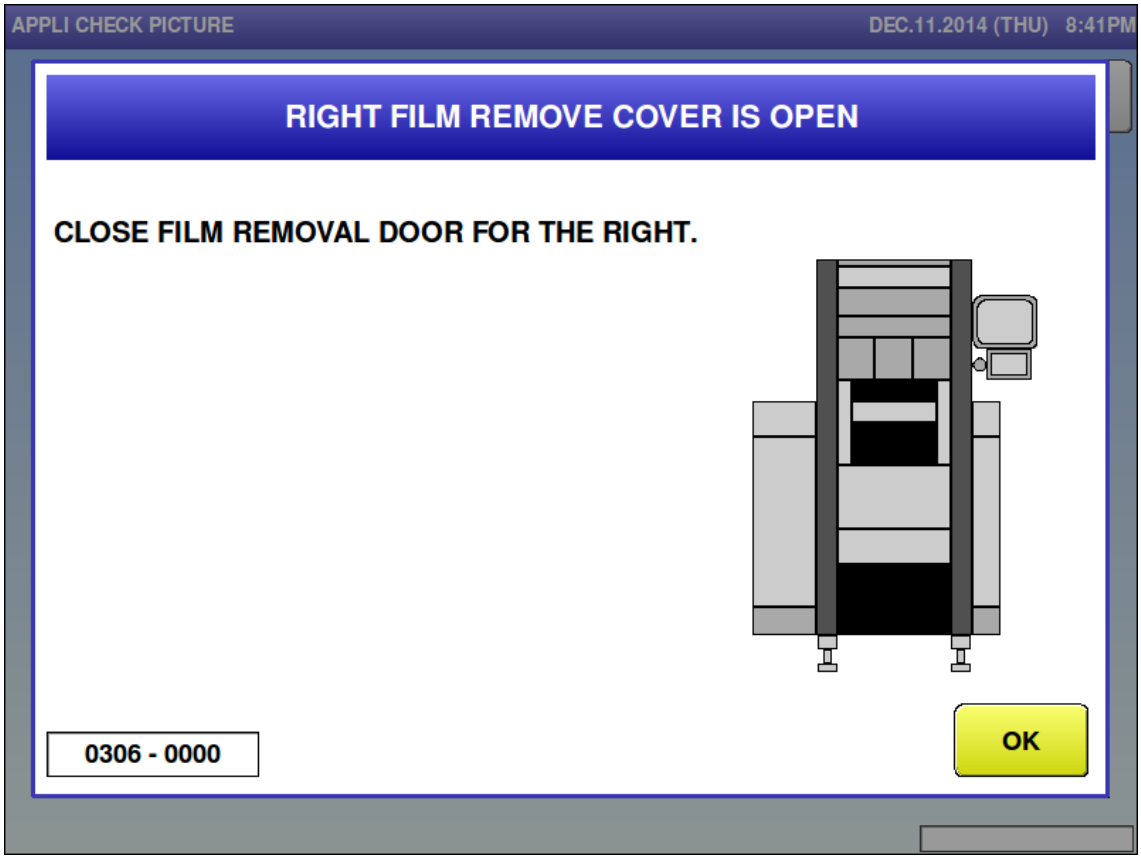
Error content	Front cover is open...
Detail	Occurs when the front cover is open. before operation.
Solution	Close the front cover, [OK] button.
Action by user	Close the front cover.
Action by service representative	Close the front cover.
Related part	Main board, wrapping machine board
Remarks	

■ Infeed is slided (0305)



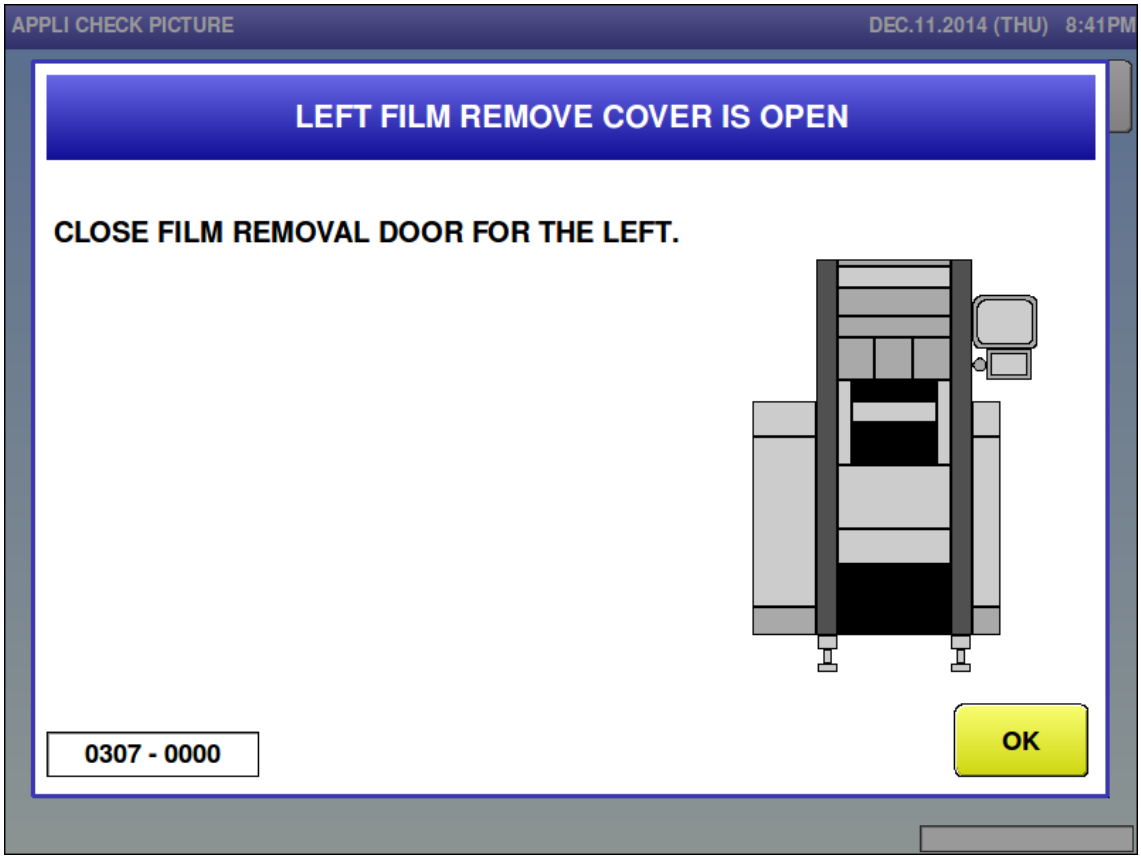
Error content	Infeed is slided
Detail	Occurs when the infeed conveyor or infeed cover is open before operation
Solution	Set the infeed conveyor or close infeed cover, [OK] button
Action by user	Close the infeed bottom cover. Set the infeed unit.
Action by service representative	Close the infeed bottom cover. Set the infeed unit.
Related part	Main board, wrapping machine board
Remarks	

■ Right film remove cover is open (0306)



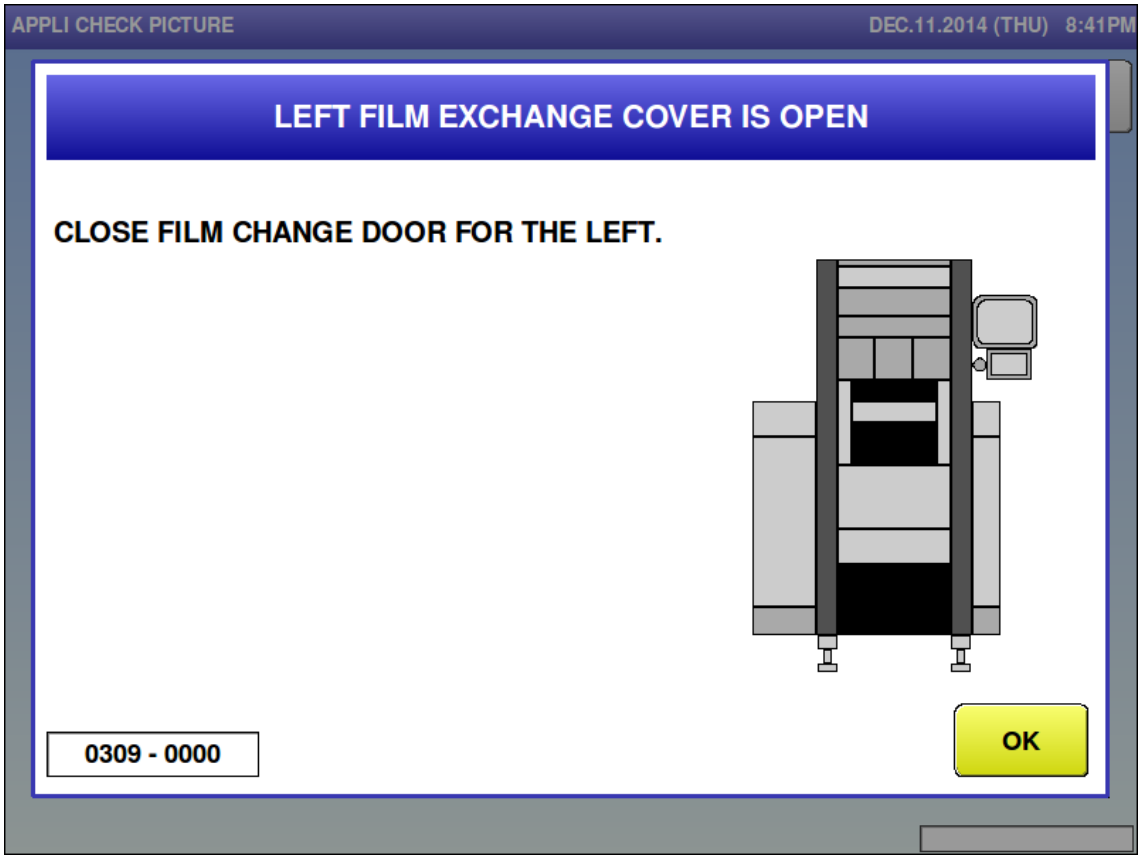
Error content	Right film remove cover is open.
Detail	Occurs when the right film remove cover is open before operation.
Solution	Close Right film remove cover, [OK] button
Action by user	Close the film removal door on the right.
Action by service representative	Close the film removal door on the right.
Related part	Main board, wrapping machine board
Remarks	

■ Left film remove cover is open (0307)



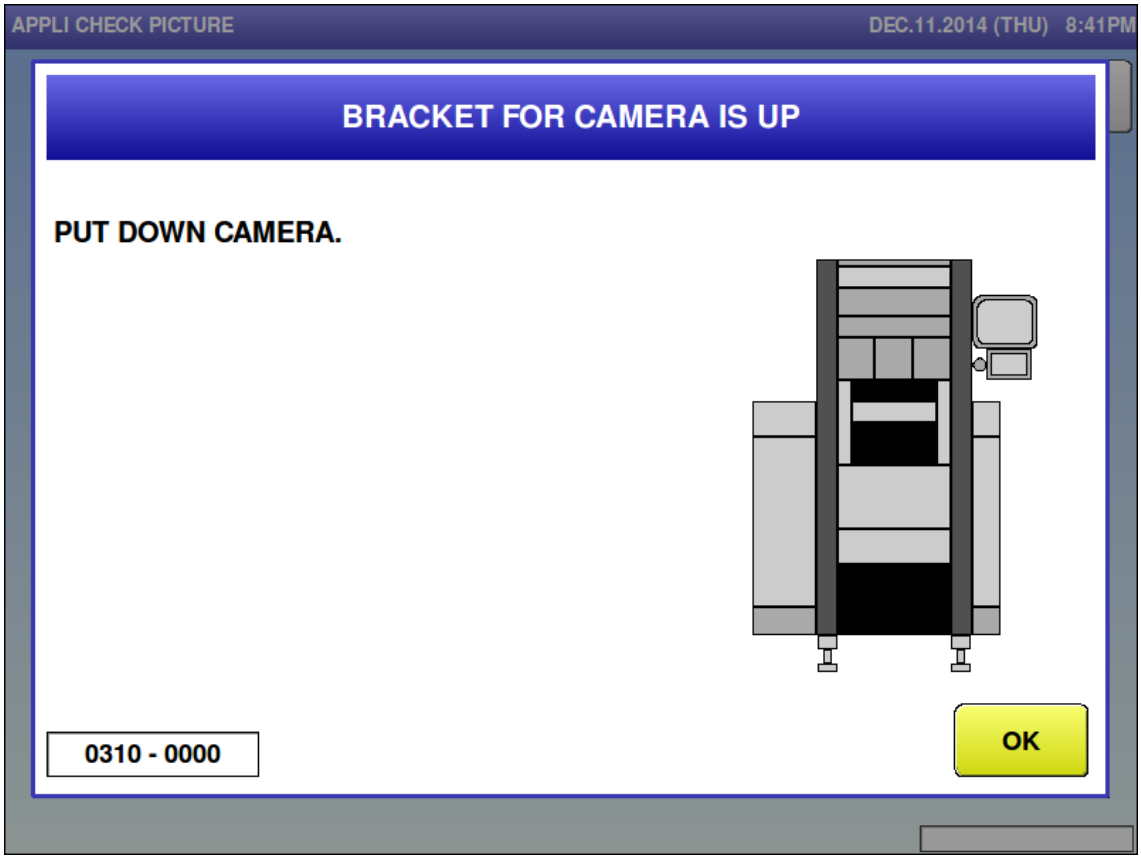
Error content	Left film remove cover is open.
Detail	Occurs when the left film remove cover is open before operation.
Solution	Close left film remove cover, [OK] button.
Action by user	Close the film removal door on the left.
Action by service representative	Close the film removal door on the left.
Related part	Main board, wrapping machine board
Remarks	

■ Left film exchange cover is open (0309)



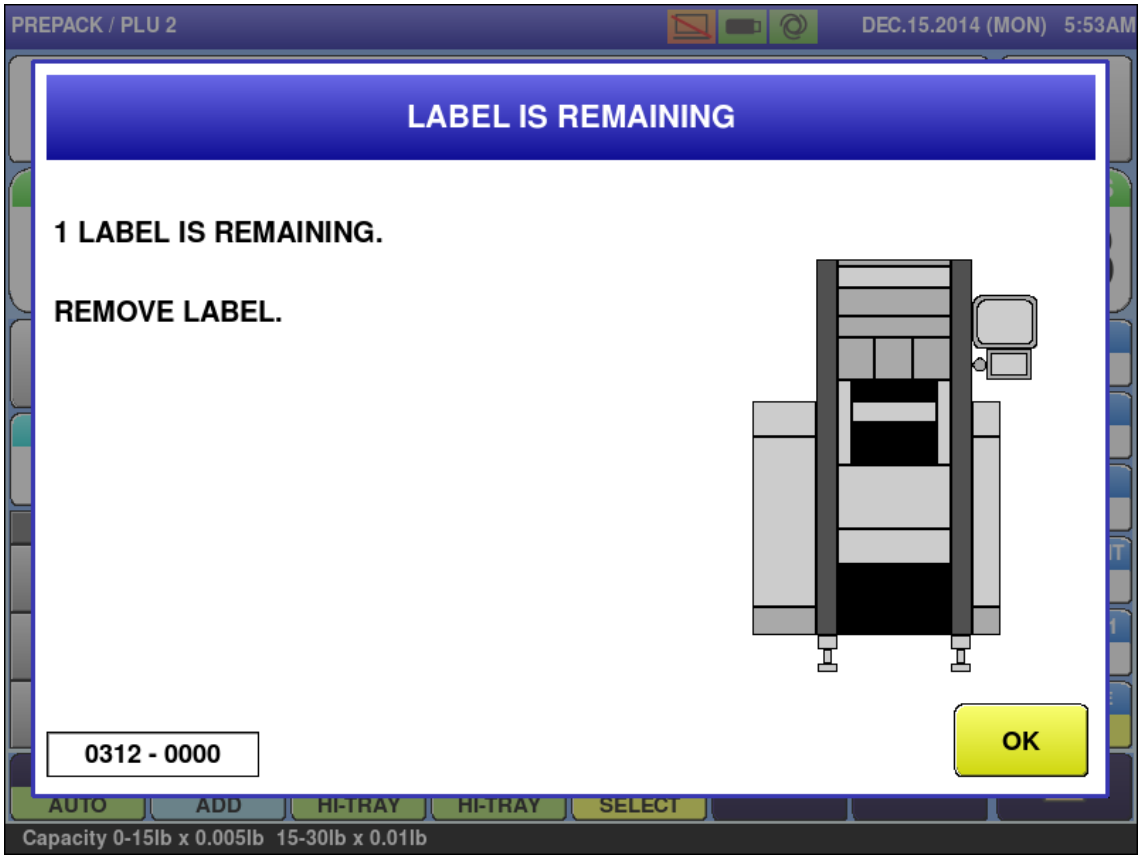
Error content	Left film exchange cover is open.
Detail	Occurs when the left film exchange cover is open before operation.
Solution	Close left film exchange cover, [OK] button.
Action by user	Close the film replacement door on the left.
Action by service representative	Close the film replacement door on the left.
Related part	Main board, wrapping machine board
Remarks	

■ Bracket for camera is up (0310)

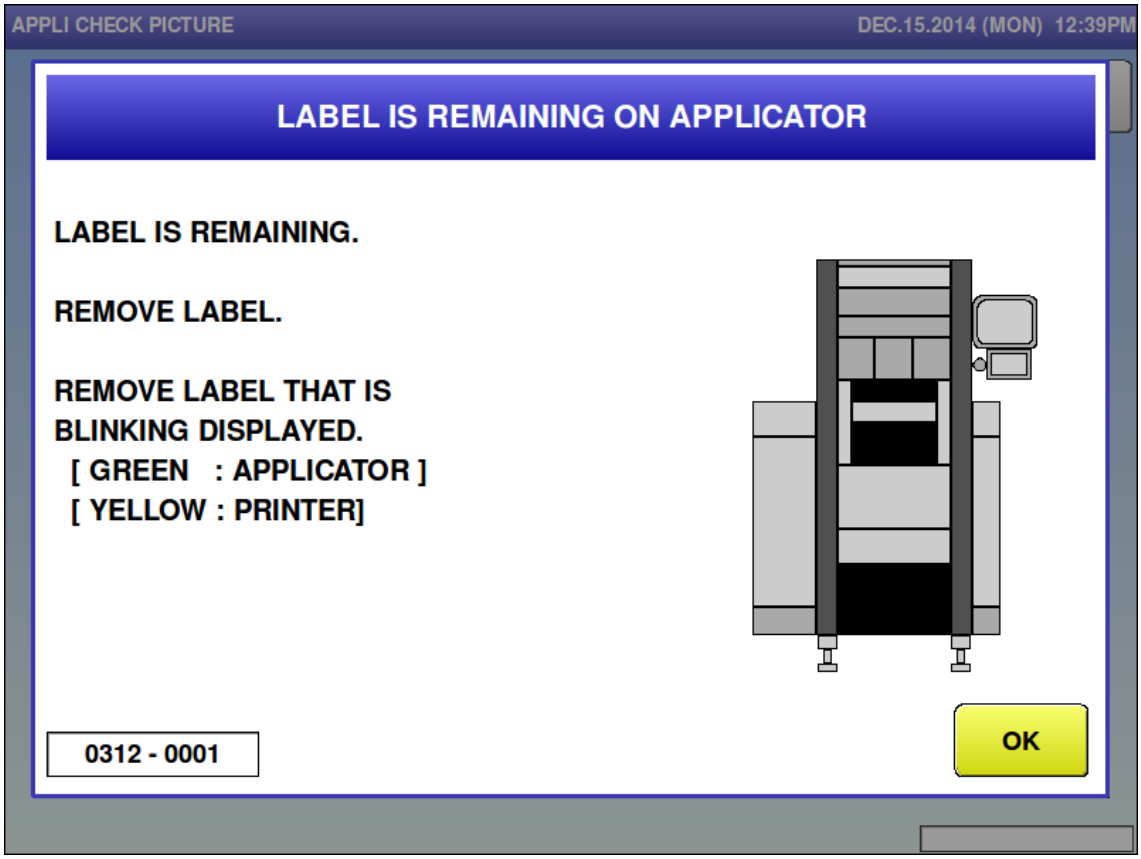


Error content	Bracket for camera is up
Detail	Camera is pushed up when production.
Solution	Back the camera to the original position, [OK] button
Action by user	Put the camera back to the original position. Press the [OK] button
Action by service representative	Put the camera back to the original position.
Related part	Main board, wrapping machine board
Remarks	

■ Label is remaining (0312)

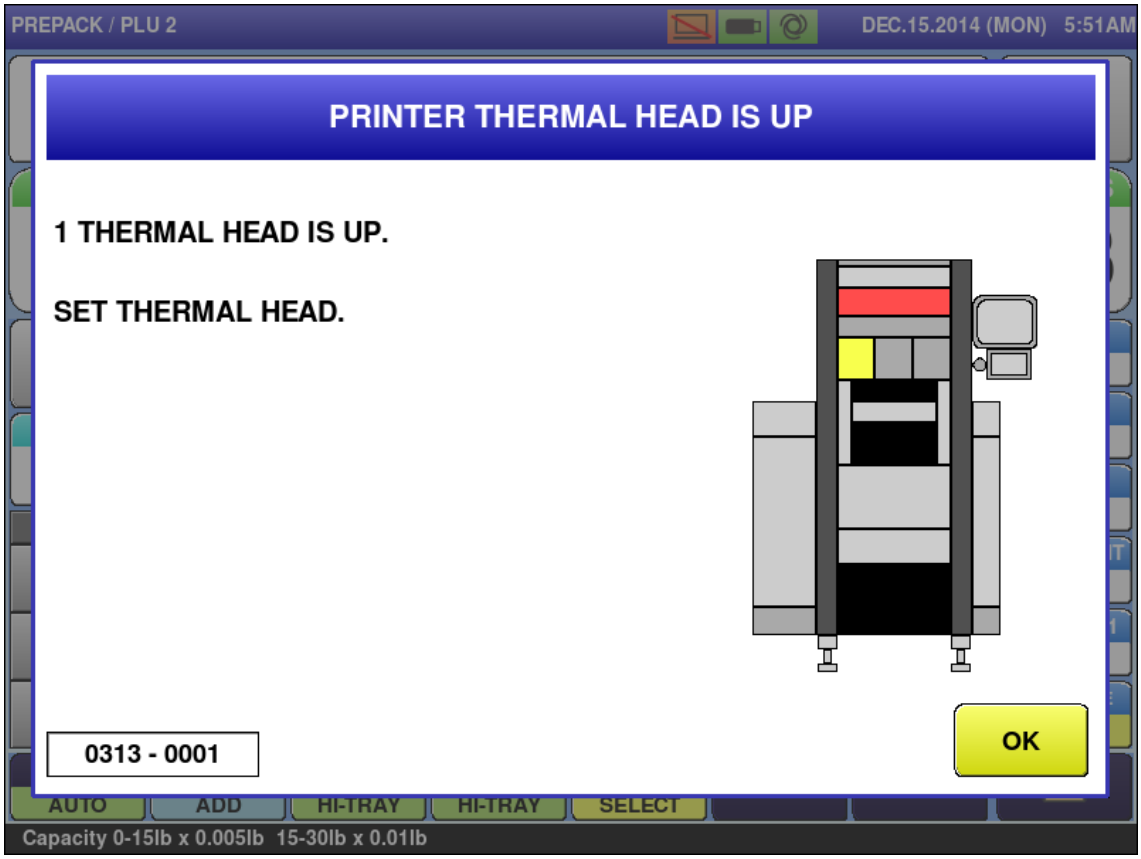


Error content	Label is remaining
Detail	Separated by sub-error No. 0000: Printer
Solution	Remove label, [OK] button
Action by user	Remove the label of the printer.
Action by service representative	Confirm the peel sensor operation of the printer on which an error occurred.
Related part	Main board, printer board
Remarks	



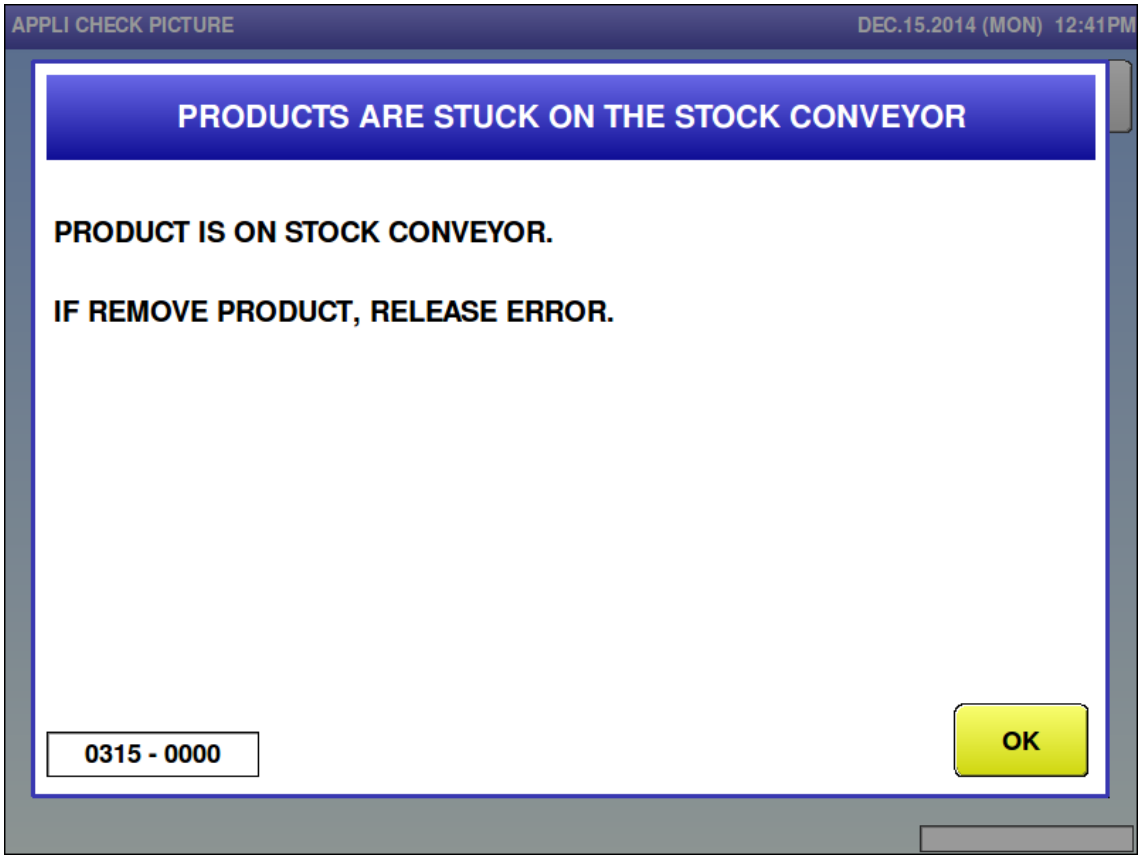
Error content	Label is remaining on applicator
Detail	Separated by sub-error No. 0001: Applicator
Solution	Remove the label on applicator, [OK] button
Action by user	Remove the label of the printer.
Action by service representative	Confirm the operation of the printer sensor.
Related part	Main board, wrapping machine board
Remarks	

■ Printer thermal head is up (0313)



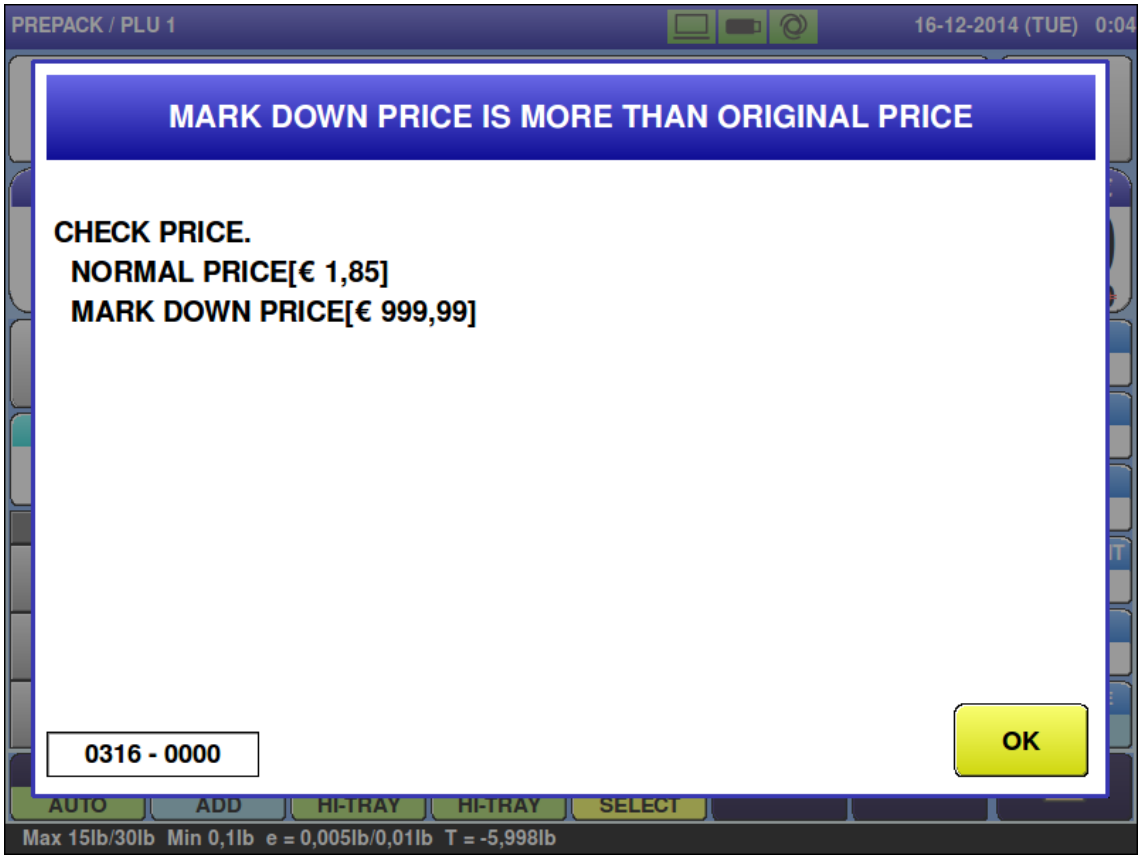
Error content	Printer thermal head is up.
Detail	Separated by sub-error No. 0001: WM-AI
Solution	Set thermal head, [OK] button.
Action by user	Set the thermal head.
Action by service representative	Confirm the thermal head sensor.
Related part	Main board, printer board
Remarks	

■ Products are stuck on the stock conveyor (0315)



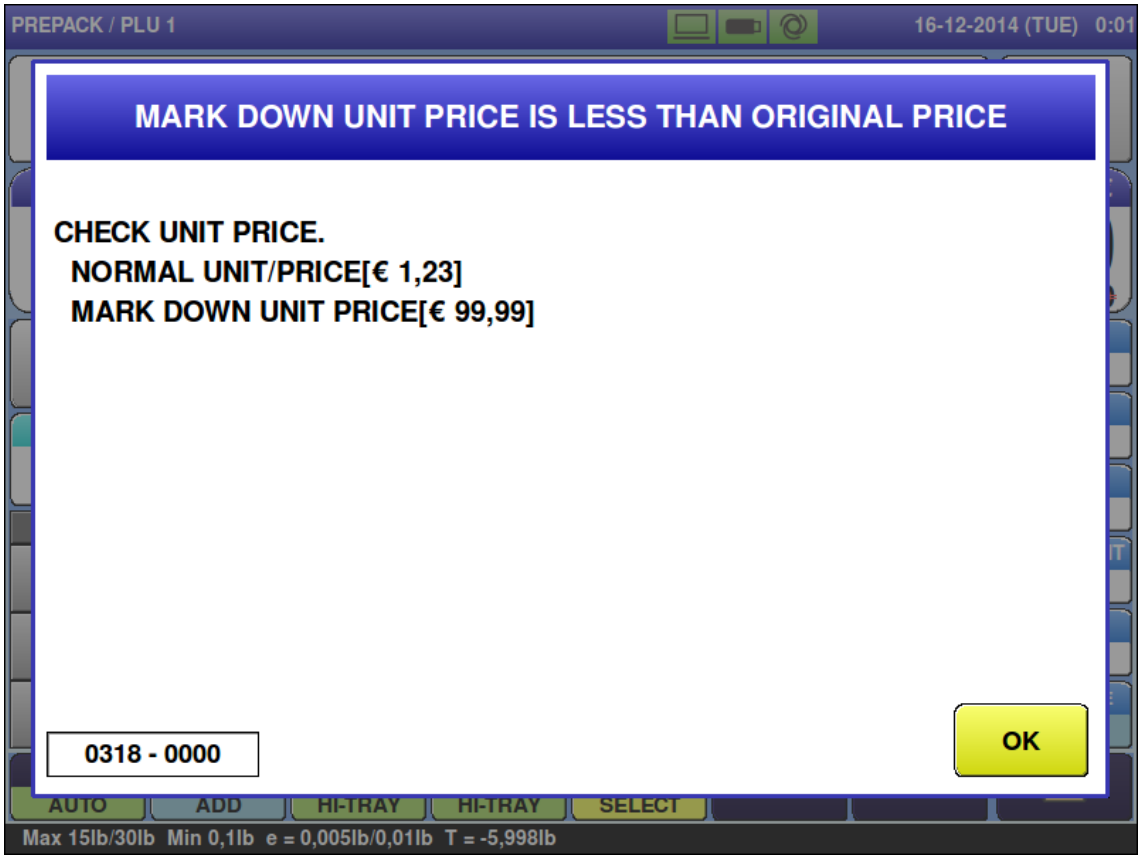
Error content	Products are stuck on the stock conveyor
Detail	Occurs while the product blocks the full sensor from light when products remain on the discharge conveyer.
Solution	[OK] button, remove products on stock conveyor.
Action by user	Remove the product on the stock conveyor. * The error is cleared when the product is removed.
Action by service representative	Confirm the operation of the full sensor.
Related part	Main board, wrapping machine board
Remarks	

■ Mark down price is more than original price (0316)



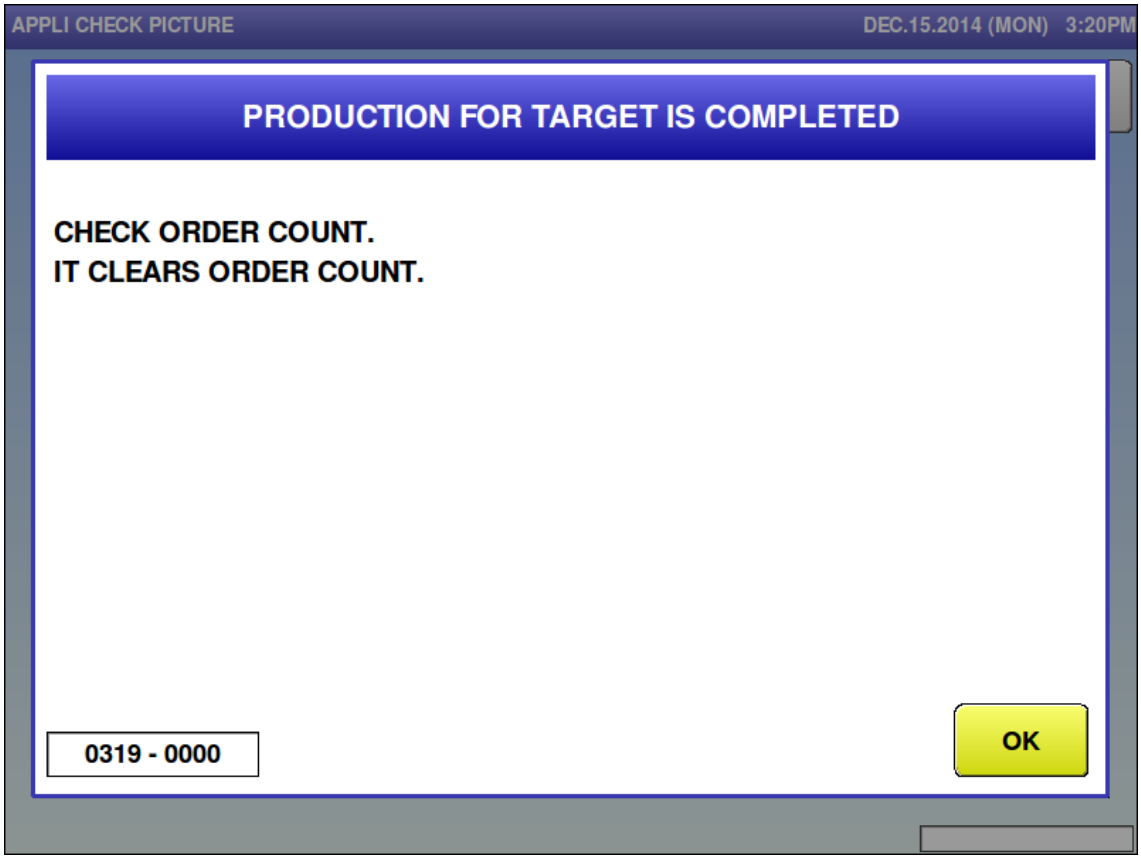
Error content	Mark down price is more than original price
Detail	
Solution	[OK] button
Action by user	Change the mark down price. * Set the mark down price lower than the original price.
Action by service representative	Change the mark down price. Confirm the product master. Confirm the host product master when linked with the host system.
Related part	Main board
Remarks	Original price and markdown price are displayed.

■ Mark down unit price is more than original price (0318)



Error content	Mark down unit price is less than original price.
Detail	
Solution	[OK] button
Action by user	Change the mark down price. * Set the mark down price lower than the original price.
Action by service representative	Change the mark down price. Confirm the product master. Confirm the host product master when linked with the host system.
Related part	Main board
Remarks	Original price and markdown unit price are displayed.

■ Production for target is completed (0319)

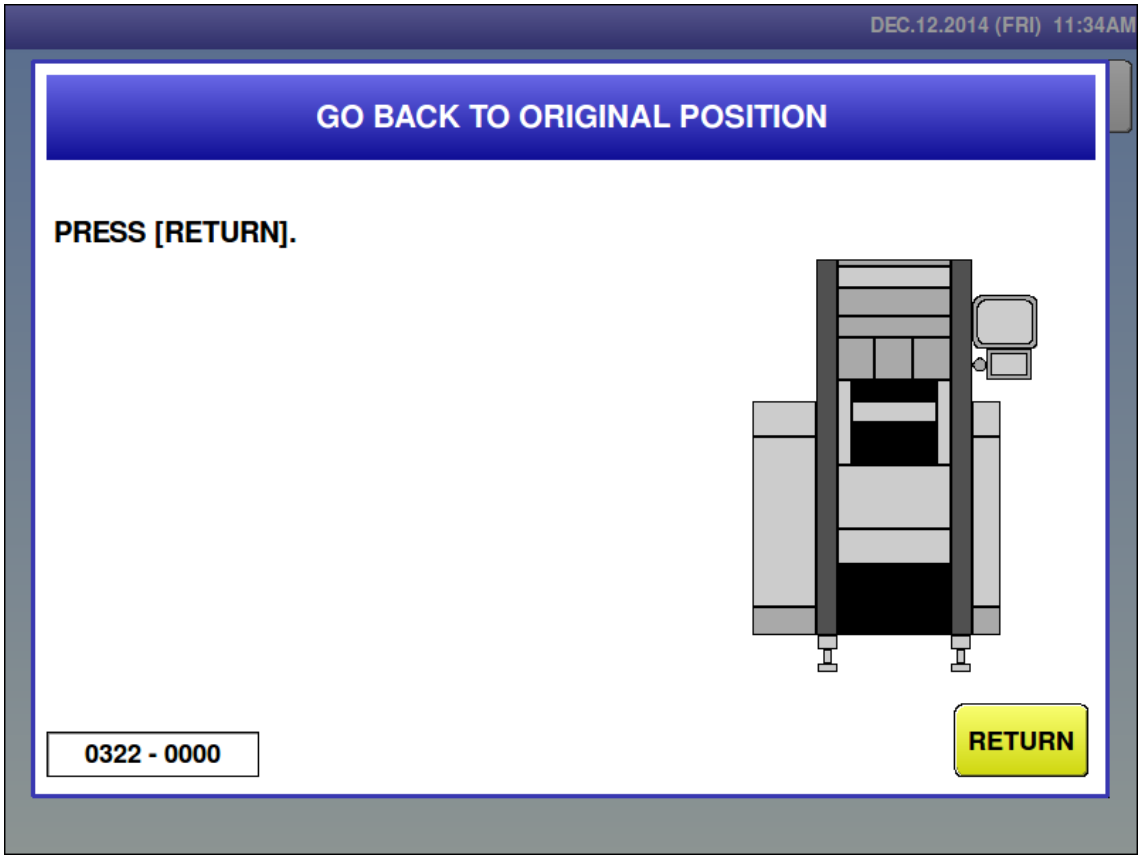


Error content	Production exceeding order count is attempted.
Detail	
Solution	[OK] button
Action by user	Press the [OK] button. Continue production after releasing the error.
Action by service representative	Press the [OK] button.
Related part	Main board
Remarks	Clears order count.

■ Price is not programmed (0321)

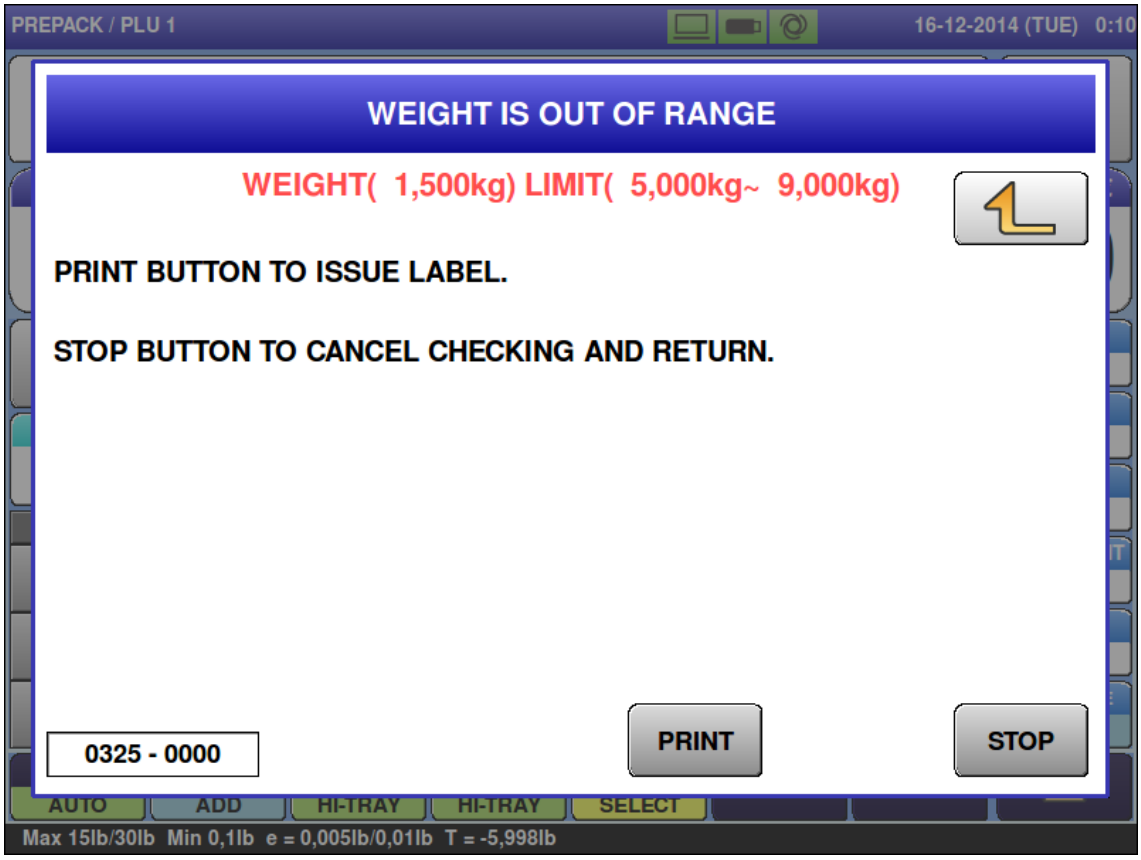
Error content	Price is not programmed.
Detail	
Solution	[OK] button
Action by user	Enter the price. Confirm the product master.
Action by service representative	Enter the price. Confirm the product master. Confirm the host product master when linked with the host system.
Related part	Main board
Remarks	Does not occur when [Do not display] is selected for 0 price error.

■ Go back to original position (0322)



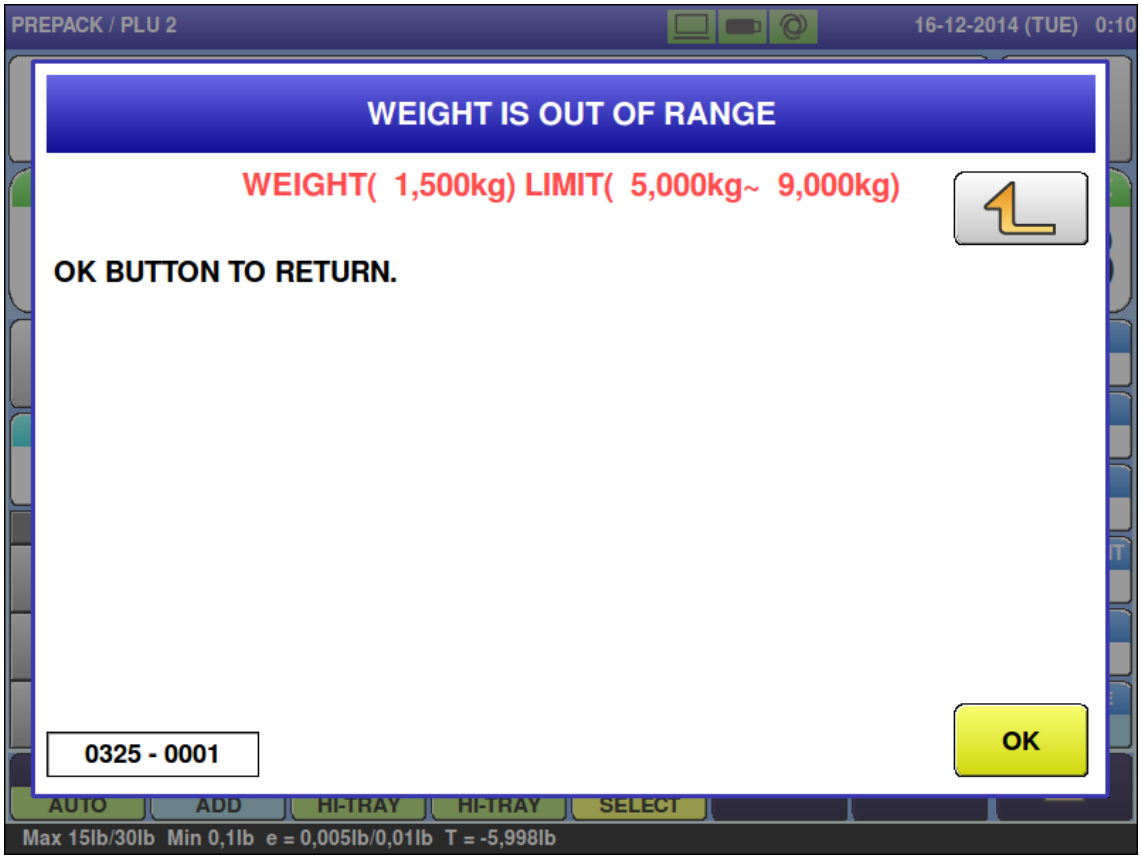
Error content	Go back to original position
Detail	
Solution	[RETURN] button
Action by user	Press the[RETURN] button.
Action by service representative	Press the[RETURN] button.
Related part	Main board, wrapping machine board
Remarks	・Origin position return processing is performed by pressing the [RETURN] button. ・Only once after power is turned ON.

■ Weight is out of range (0325－0000)



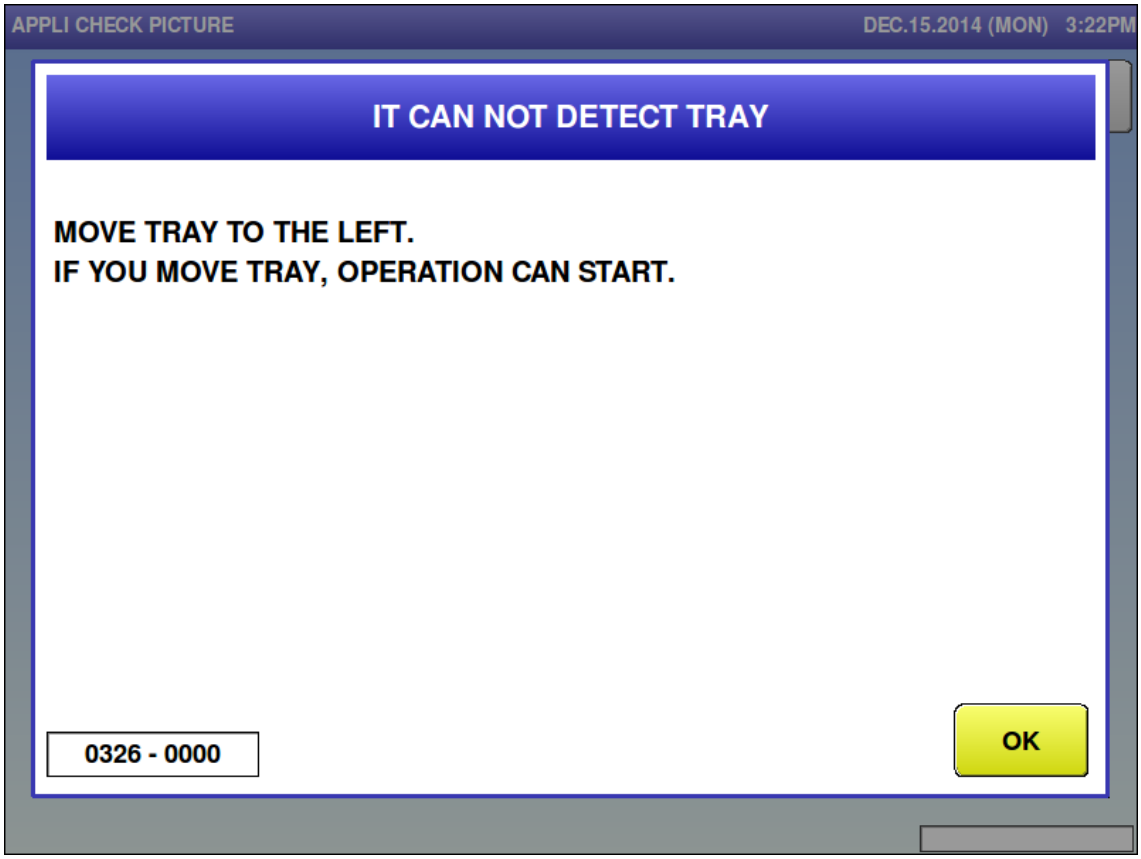
Error content	Weight is out of range.
Detail	Separated by sub-error No. 0000: weight out of range error
Solution	* When there is error because Weight is out of range [PRINT] button: no error [STOP] button: will not check weight until next product is called. Numeric key: close the error screen
Action by user	Increase the weight of the product. Confirm [Upper Limit Weight] and [Lower Limit Weight] of the product master.
Action by service representative	Confirm the product master. Confirm the host product master when linked with the host system.
Related part	Main board
Remarks	Does not check product limits when [No] is selected for product weight measurement in system data settings.

■ Weight is out of range (0325－0001)



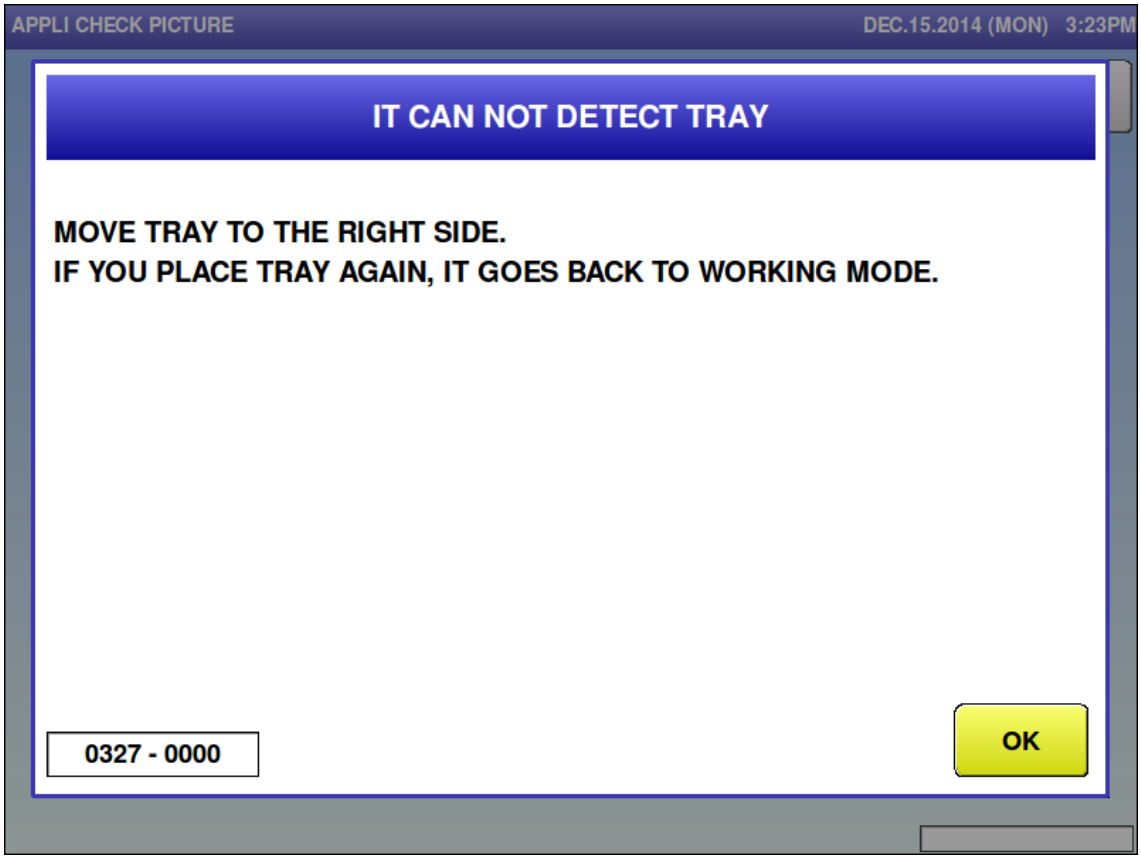
Error content	Weight is out of range.
Detail	Separated by sub-error No. 0001: weight out of range error
Solution	[OK] button
Action by user	Increase the weight of the product. Confirm [Upper Limit Weight] and [Lower Limit Weight] of the product master.
Action by service representative	Confirm the product master. Confirm the host product master when linked with the host system.
Related part	Main board
Remarks	Does not check product limits when [No] is selected for product weight measurement in system data settings.

■ It cannot detect tray (0326)



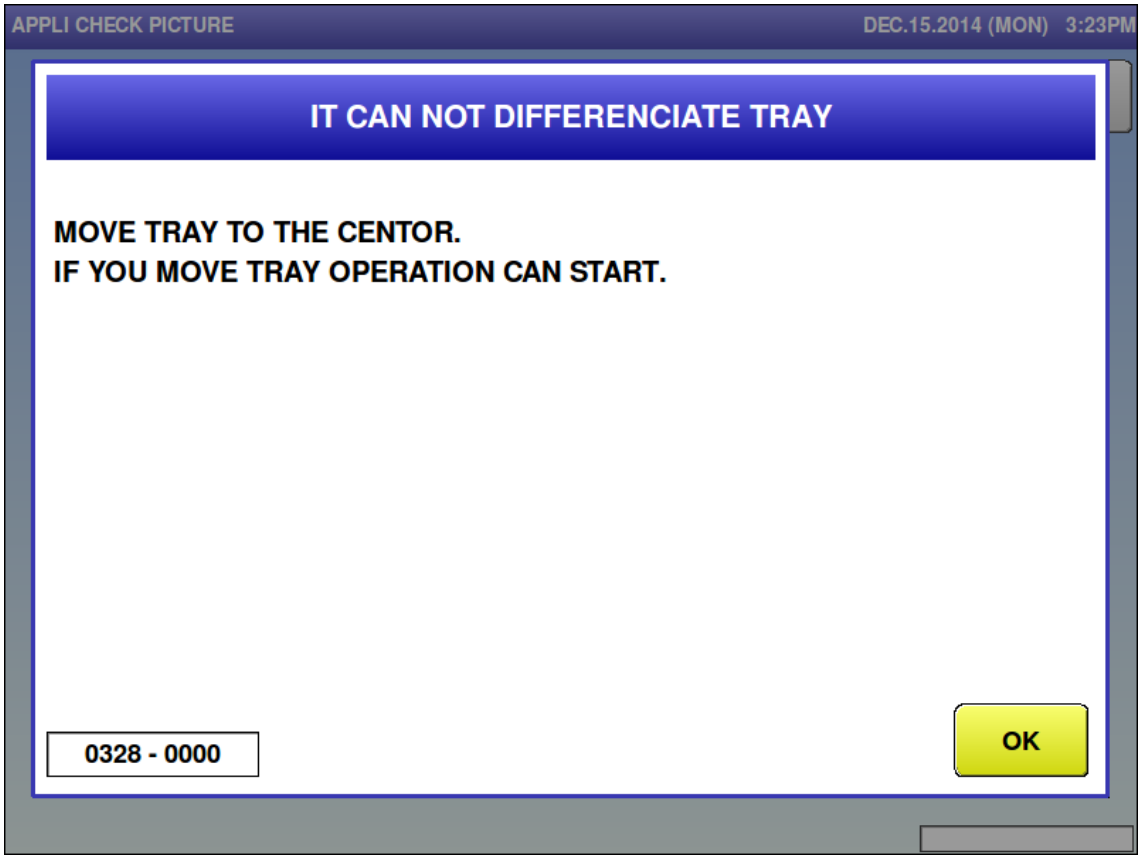
Error content	Tray detection error.
Detail	The right side of the tray is protruding.
Solution	Fix tray placement, [OK] button
Action by user	Place the tray in the center again.
Action by service representative	Place the tray in the center again. Confirm the camera detection.
Related part	Main board, detection board
Remarks	

■ It cannot detect tray (0327)



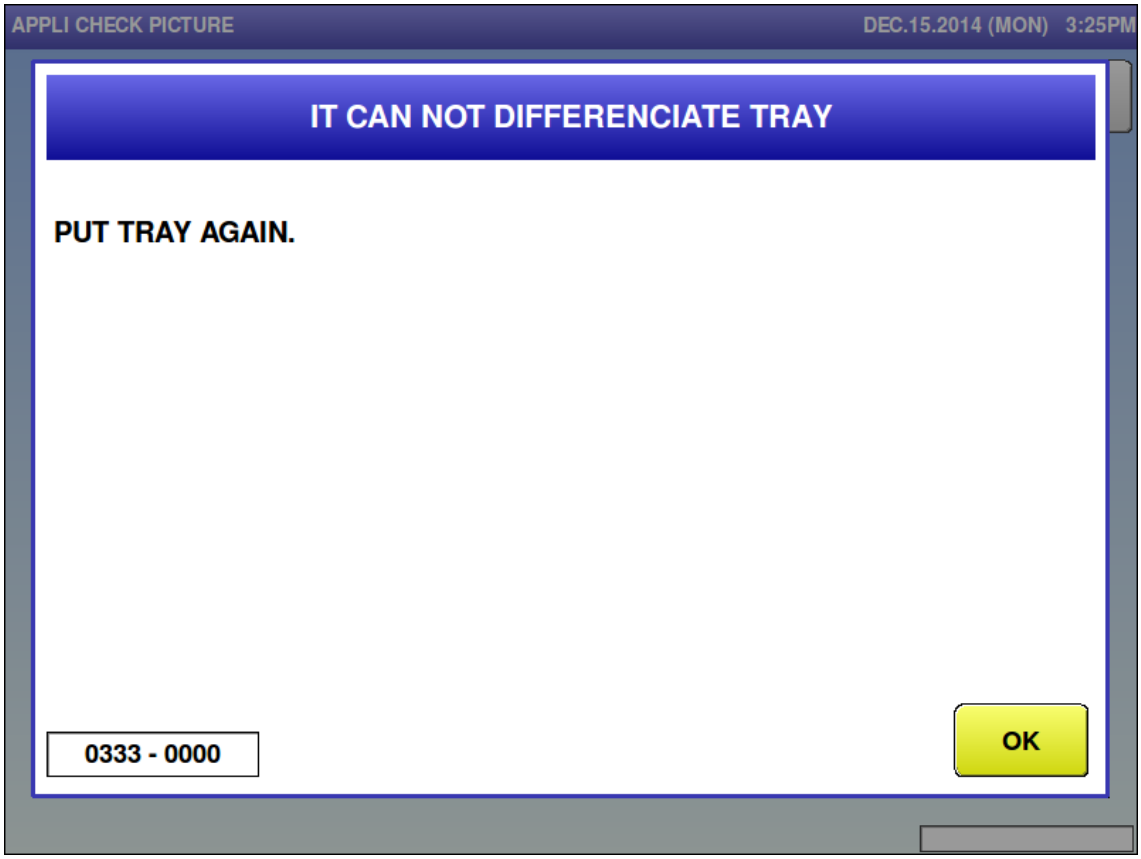
Error content	Tray detection error.
Detail	The left side of the tray is protruding.
Solution	Fix tray placement, [OK] button
Action by user	Place the tray in the center again.
Action by service representative	Place the tray in the center again. Confirm the camera detection.
Related part	Main board, detection board
Remarks	

■ It cannot differentiate tray (0328)



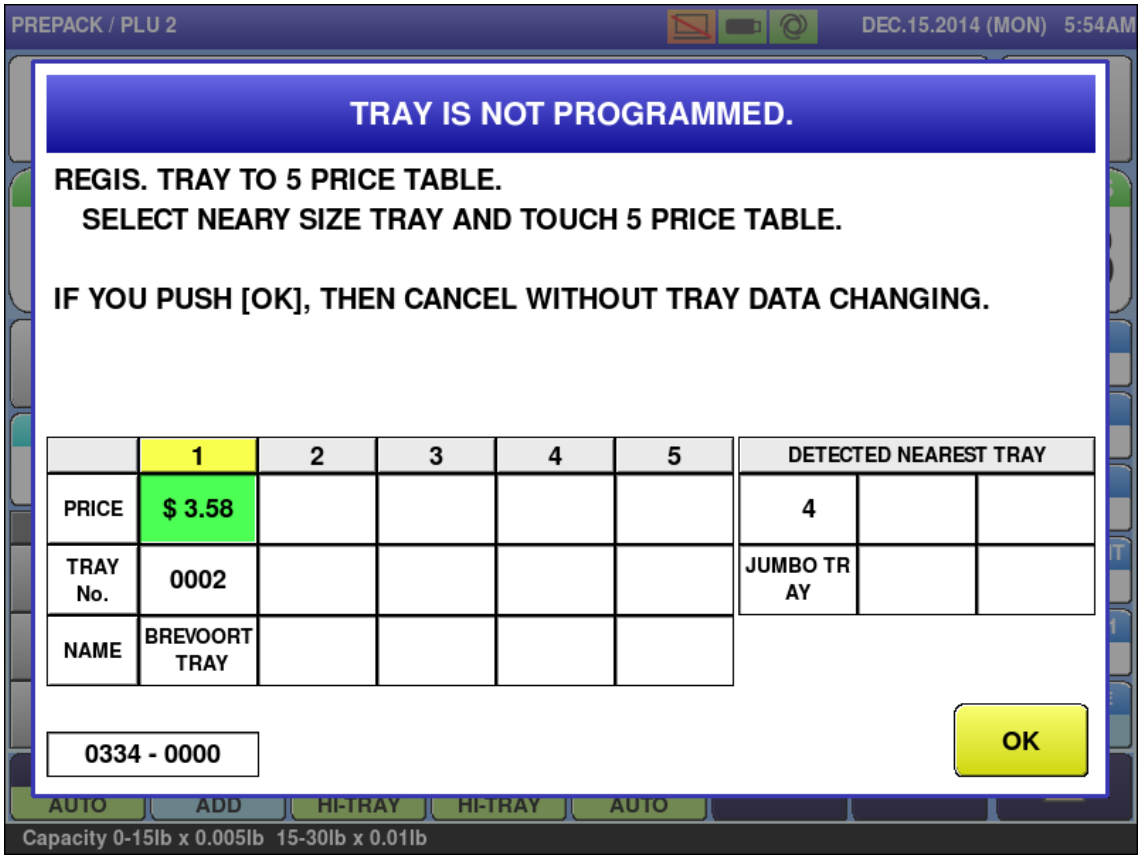
Error content	Tray detection error.
Detail	Right and left sides of the tray are protruding. Lower side of the tray is protruding. Sub-error 0001 data abnormally
Solution	Fix tray placement, [OK] button
Action by user	Place the tray in the center again.
Action by service representative	Place the tray in the center again. Confirm the camera detection.
Related part	Main board, detection board
Remarks	

■ It cannot differentiate tray (0333)



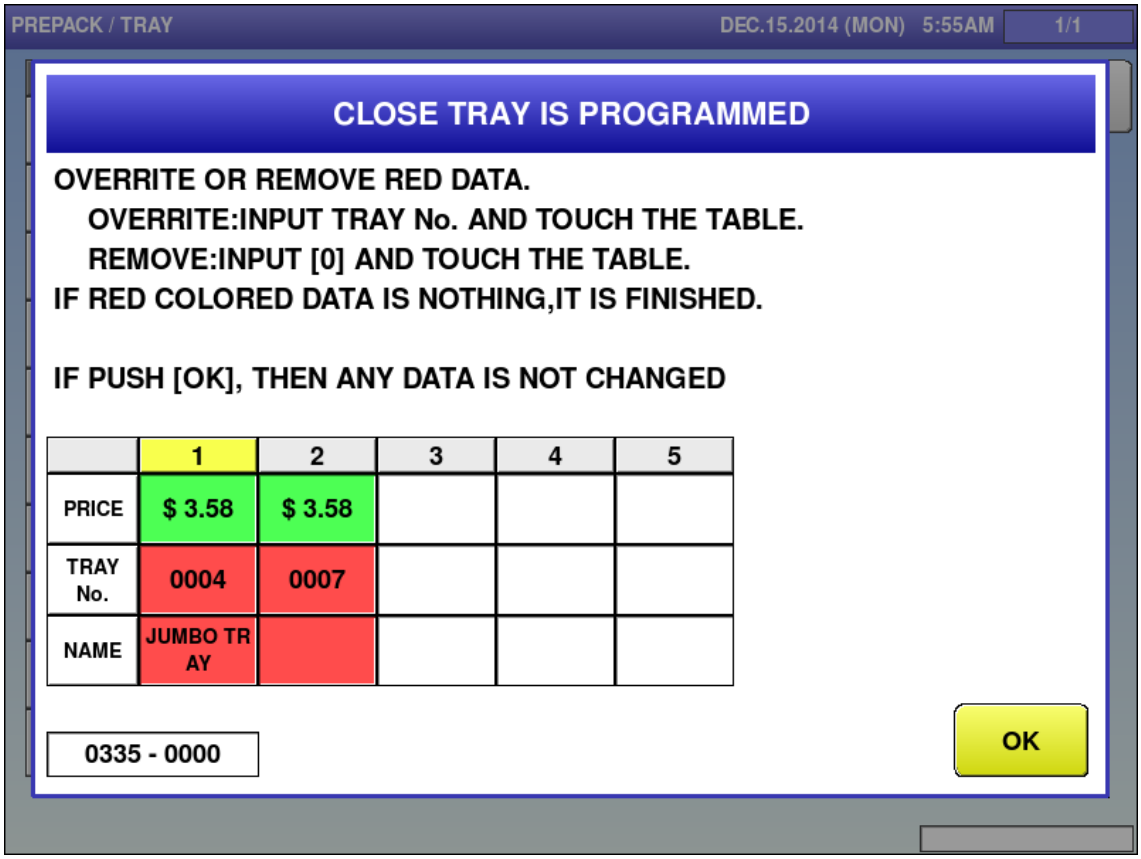
Error content	Tray detection error.
Detail	Tray in size as detected by detector is not registered in master
Solution	Fix tray placement, [OK] button
Action by user	Place the tray in the center again.
Action by service representative	Place the tray in the center again. Confirm the camera detection.
Related part	Main board, detection board
Remarks	

■ Tray is not programmed (0334)



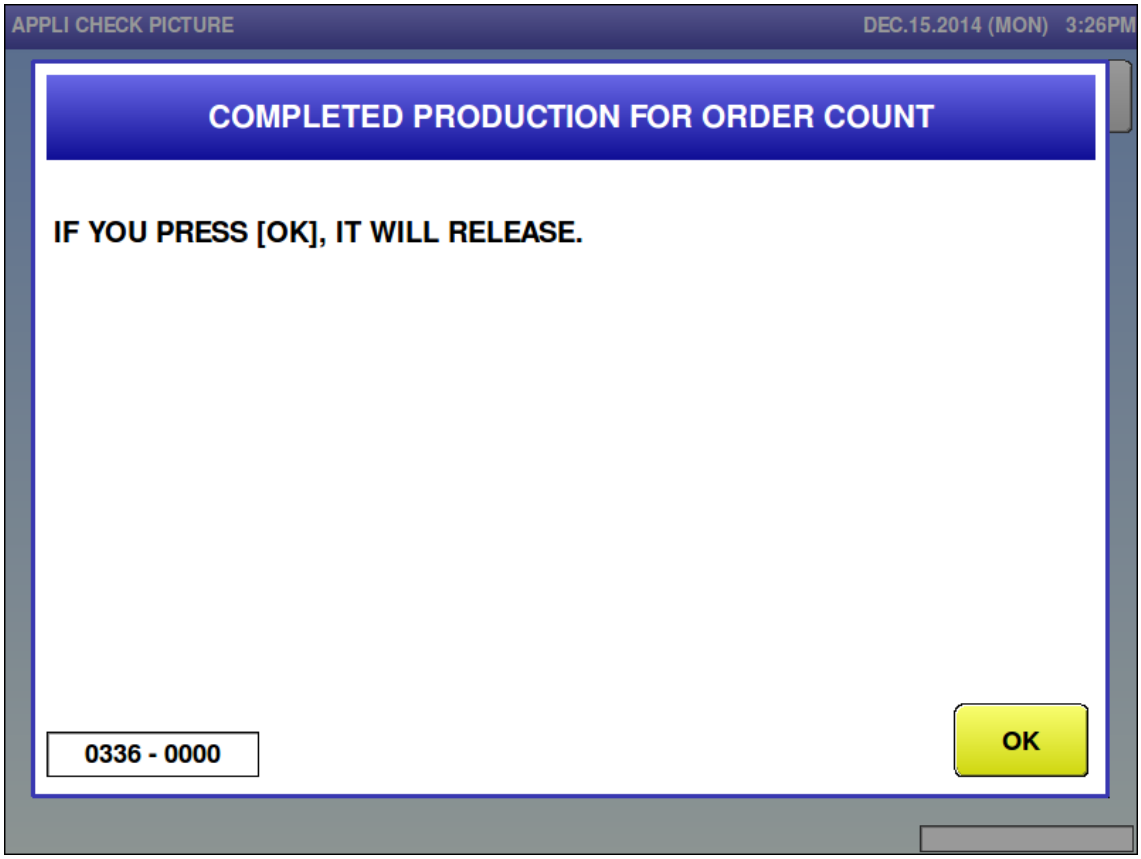
Error content	Tray is not programmed in the 5 price table... Similar tray in size is registered in the master.
Detail	
Solution	Register the tray in the 5 price table, [OK] button
Action by user	Register the tray number that is used in the 5 price table. Confirm the product master.
Action by service representative	Confirm the product master. Confirm the host product master when linked with the host system.
Related part	Main board, detection board
Remarks	

■ Close tray is programmed (0335)



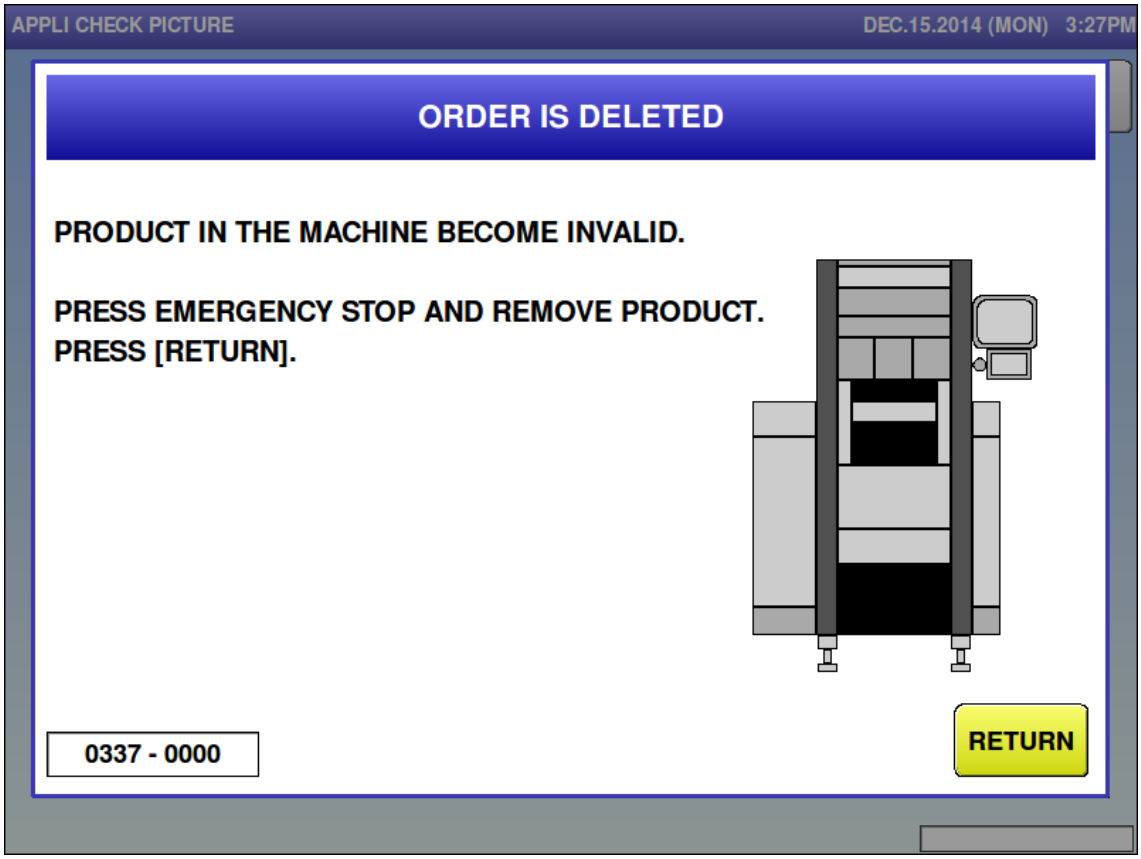
Error content	Similar tray in size is registered in the 5 price table.
Detail	Multiple trays exist in the 5 price table in system mode automatic tray recognition input limitation settings.
Solution	Delete similar tray, [OK] button
Action by user	Delete the tray number that is not used in the 5 price table. Confirm the product master.
Action by service representative	Confirm the product master. Confirm the host product master when linked with the host system.
Related part	Main board, detection board
Remarks	

■ Completed production for order count (0336)



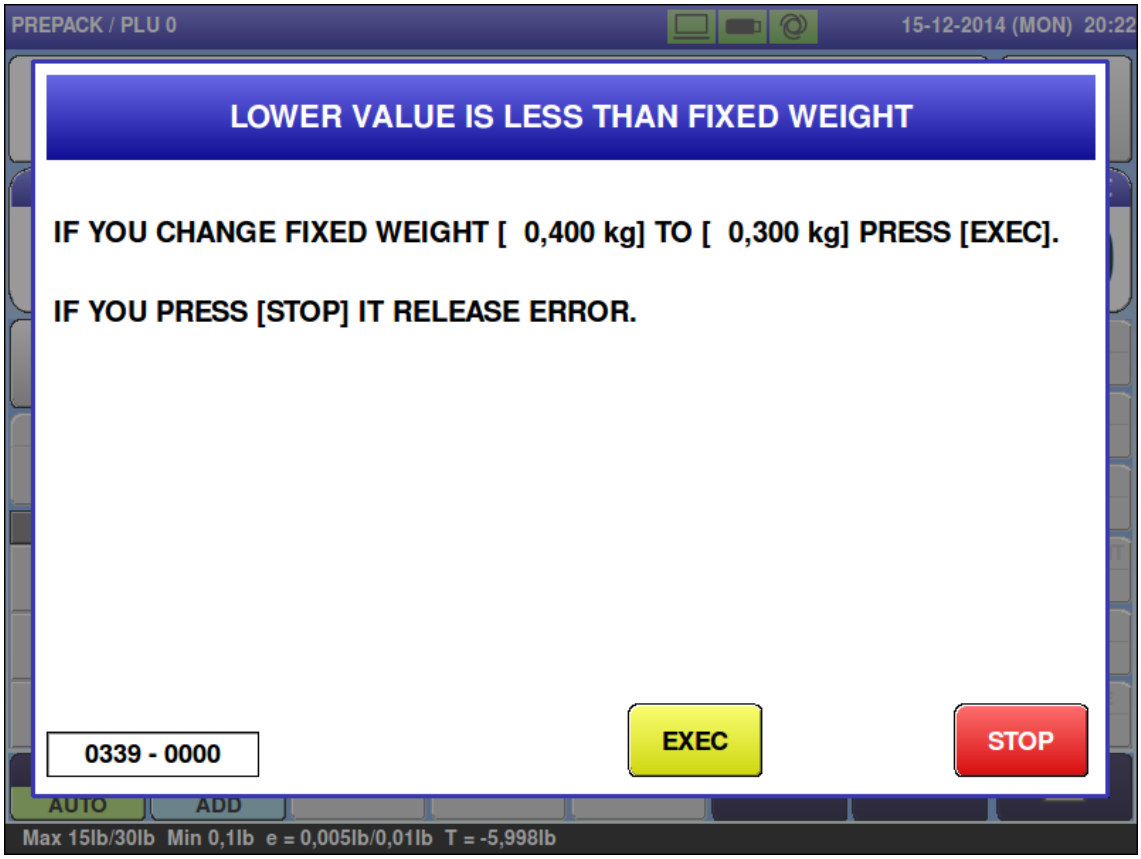
Error content	Order count has been completed.
Detail	
Solution	[OK] button
Action by user	Press the [OK] button.
Action by service representative	Press the [OK] button.
Related part	Main board
Remarks	Displayed when [End message] is selected in system data settings in system mode.

■ Order is deleted (0337)



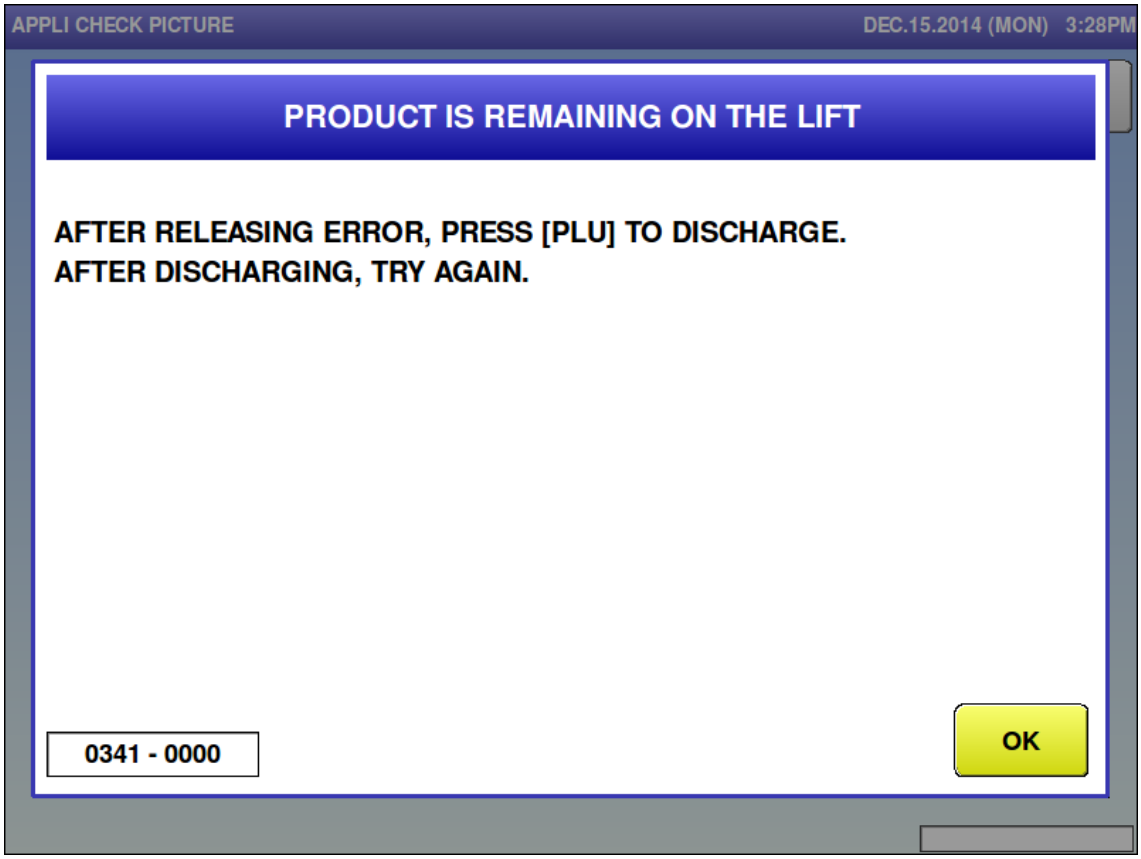
Error content	Data has been deleted.
Detail	
Solution	[RETURN] button.
Action by user	Press the emergency stop button, remove the product in the wrapper, and then press the [RETURN] button.
Action by service representative	Press the emergency stop button, remove the product in the wrapper, and then press the [RETURN] button.
Related part	Main board
Remarks	This screen is displayed when the products in the wrapper become invalid after data has been deleted.

■ Lower value is less than fixed weight (0339)



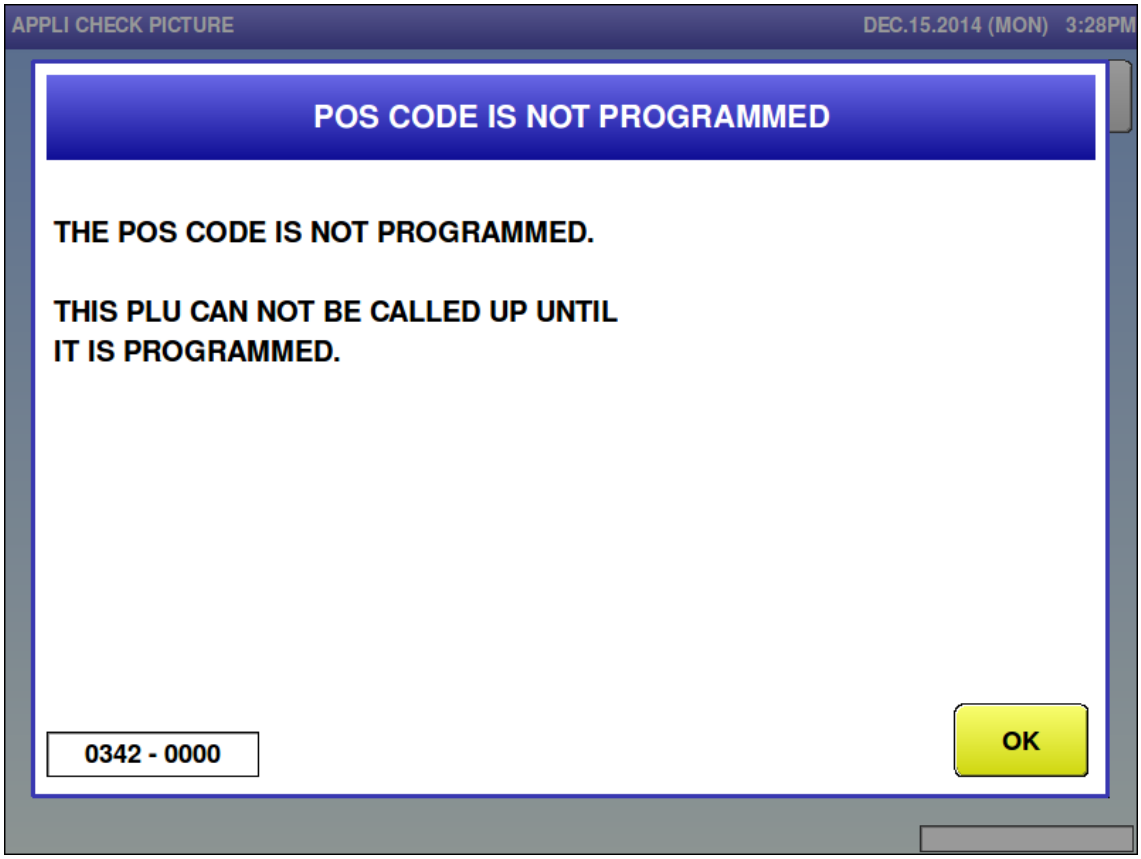
Error content	Lower value is less than fixed weight.
Detail	Attempted to enter a minimum value lighter than the fixed weight in fixed weight mode.
Solution	[EXEC] button => Set fixed weight to the minimum value. [STOP] button => Release error.
Action by user	Confirm [Fixed weight] and [Lower limit weight] of the product master.
Action by service representative	Confirm the product master. Confirm the host product master when linked with the host system.
Related part	Main board
Remarks	The minimum value will remain the same if the error is released.

■ Product is remaining on the lift (0341)



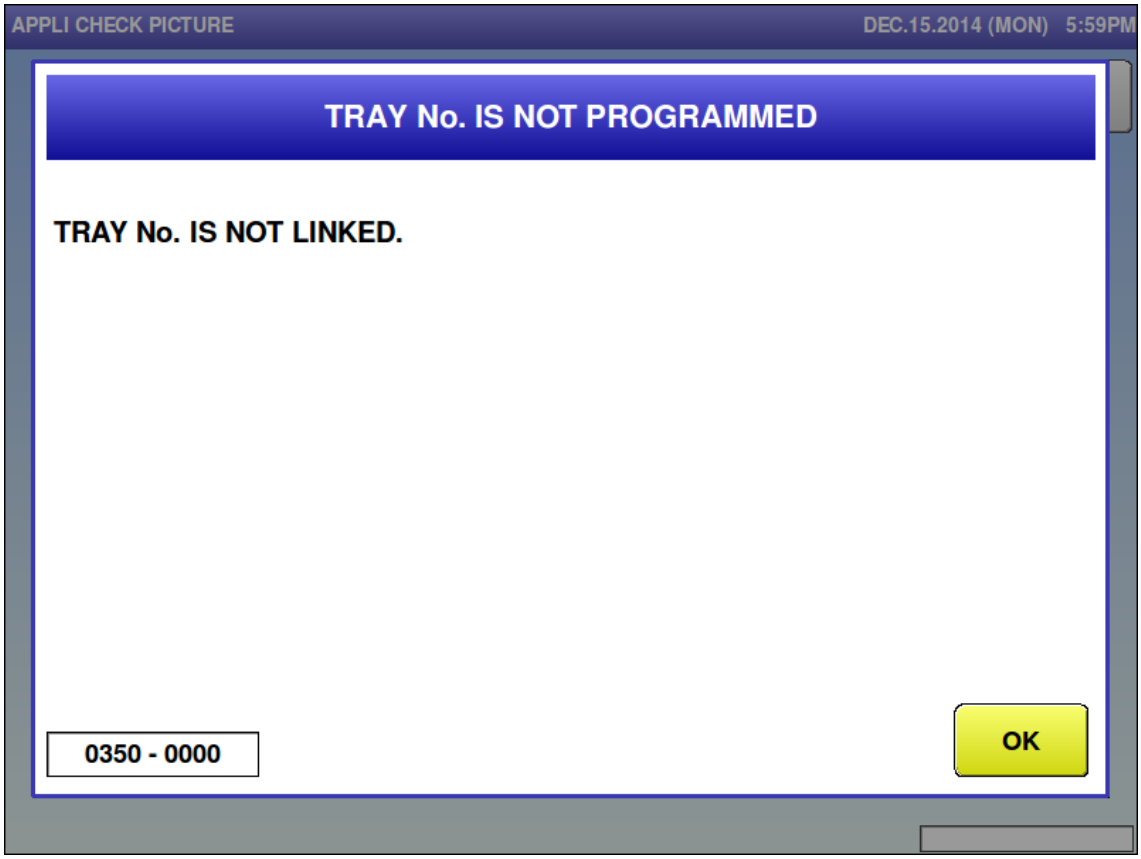
Error content	Product is remaining on the lift.
Detail	
Solution	[OK] button
Action by user	Press the [OK] button to release the error screen, press the [PLU] key to discharge the product on the lift.
Action by service representative	Press the [OK] button to release the error screen, press the [PLU] key to discharge the product on the lift.
Related part	Main board, wrapping machine board
Remarks	Press the [PLU] button and remove the product after releasing the error.

■ POS code is not programmed (0342)



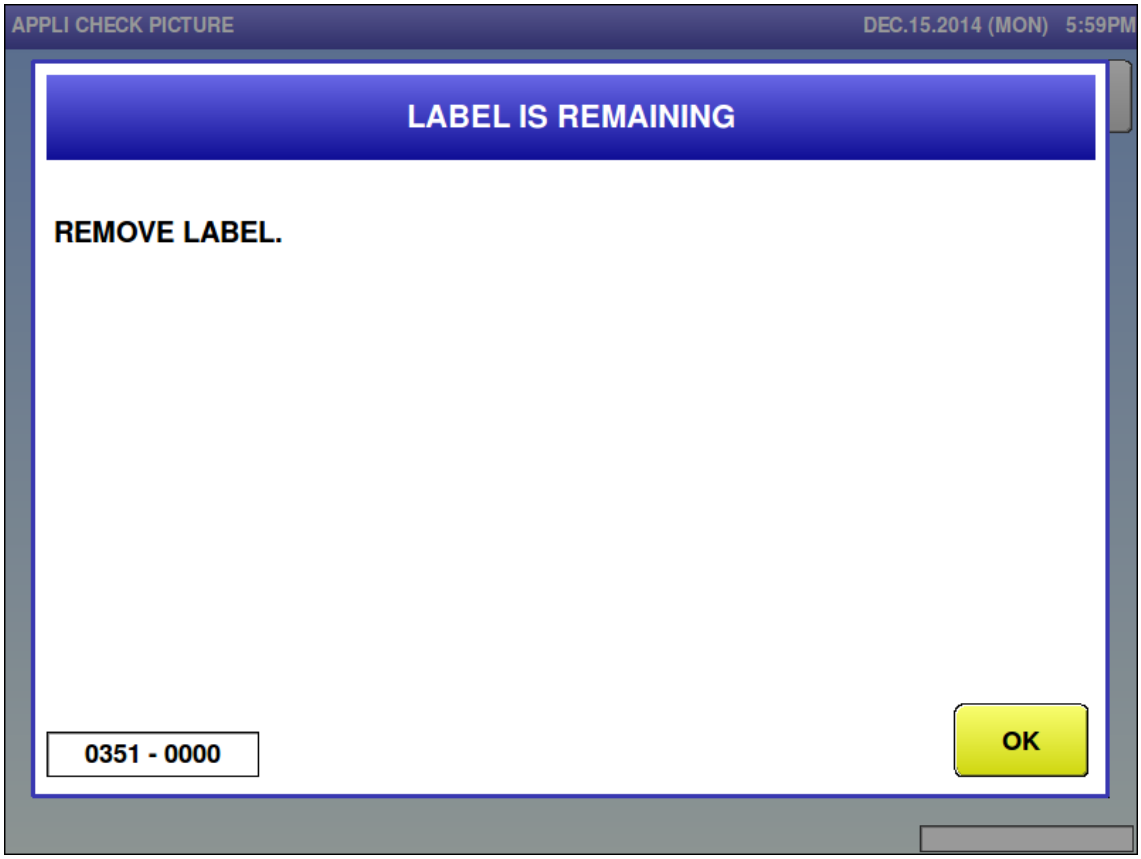
Error content	POS code is not programmed.
Detail	
Solution	[OK] button
Action by user	On the [Register: Product] screen, enter “POS code” of the target product.
Action by service representative	Confirm the product master. Confirm the host product master when linked with the host system.
Related part	Main board
Remarks	* Occurs when [POS code unregistered error] is set. *Labels cannot be issued.

■ Tray no. is not programmed (0350)



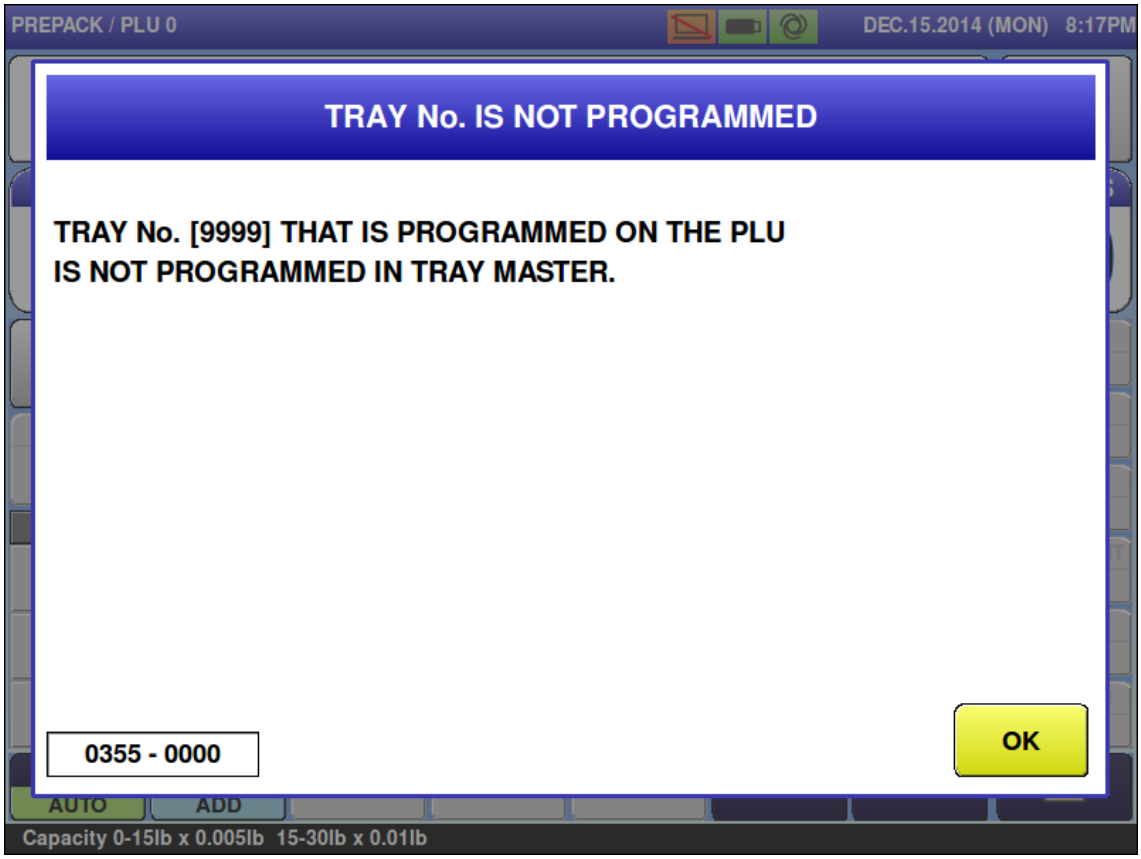
Error content	Tray no. is not programmed in product.
Detail	
Solution	[OK] button
Action by user	Enter the tray number to use.
Action by service representative	Confirm the product master. Confirm the tray master. Confirm the host product master when linked with the host system.
Related part	Main board
Remarks	

■ Label is remaining (0351)



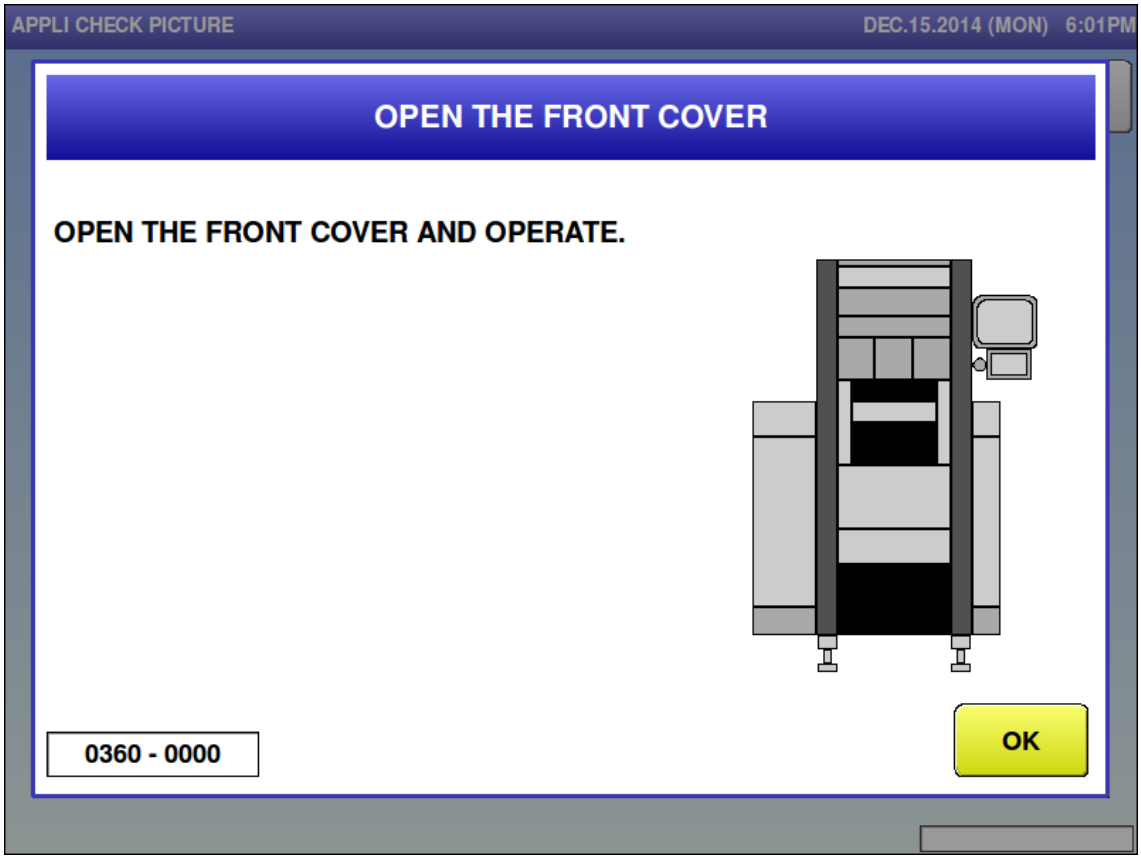
Error content	Label is remaining
Detail	
Solution	Remove label, [OK] button
Action by user	Press the [OK] button to finish production.
Action by service representative	Press the [OK] button to finish production. Confirm that there is no actual result remaining error.
Related part	Main board
Remarks	

■ Tray no. is not programmed (0355)



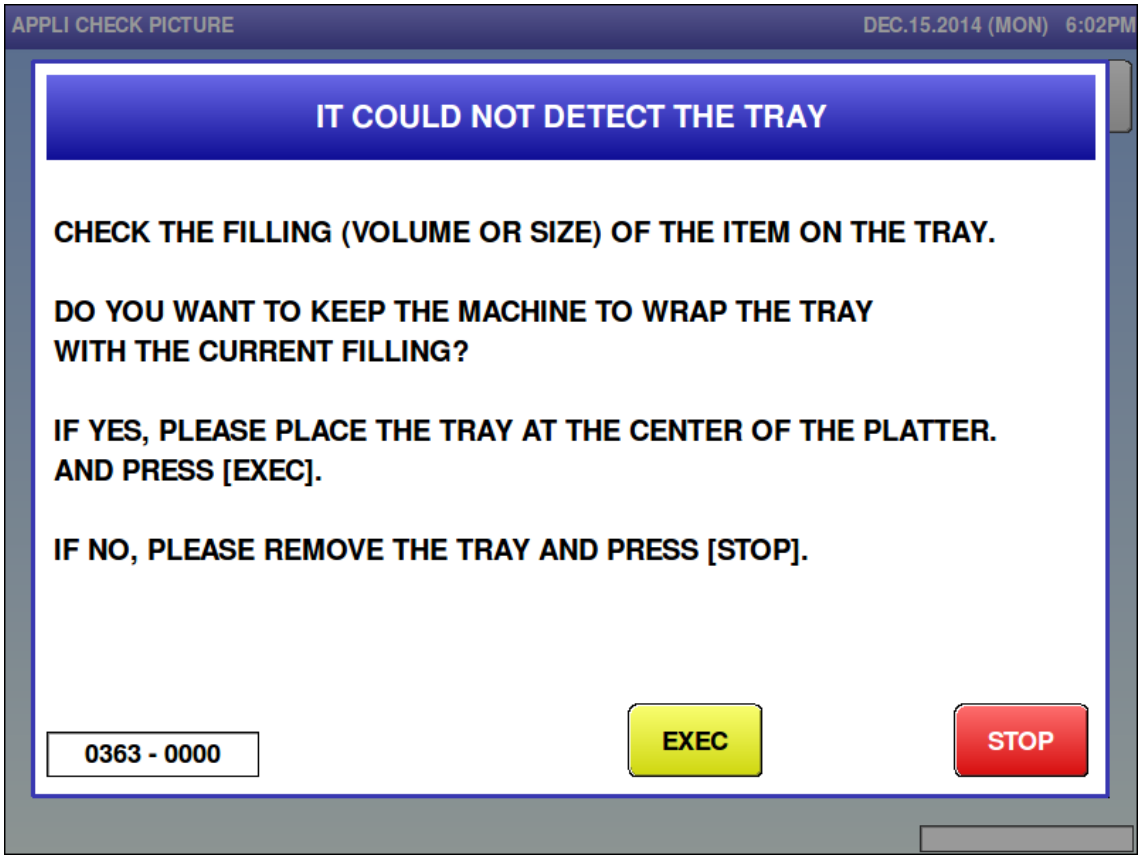
Error content	The tray number set for the product is not registered in the tray master.
Detail	
Solution	[OK] button
Action by user	Register the tray number to be used for tray master. Confirm the product master.
Action by service representative	Confirm the tray master and product master. Confirm the host product master and tray master when linked with the host system.
Related part	Main board
Remarks	Tray no. that is set is displayed.

■ Open the front cover (0360)



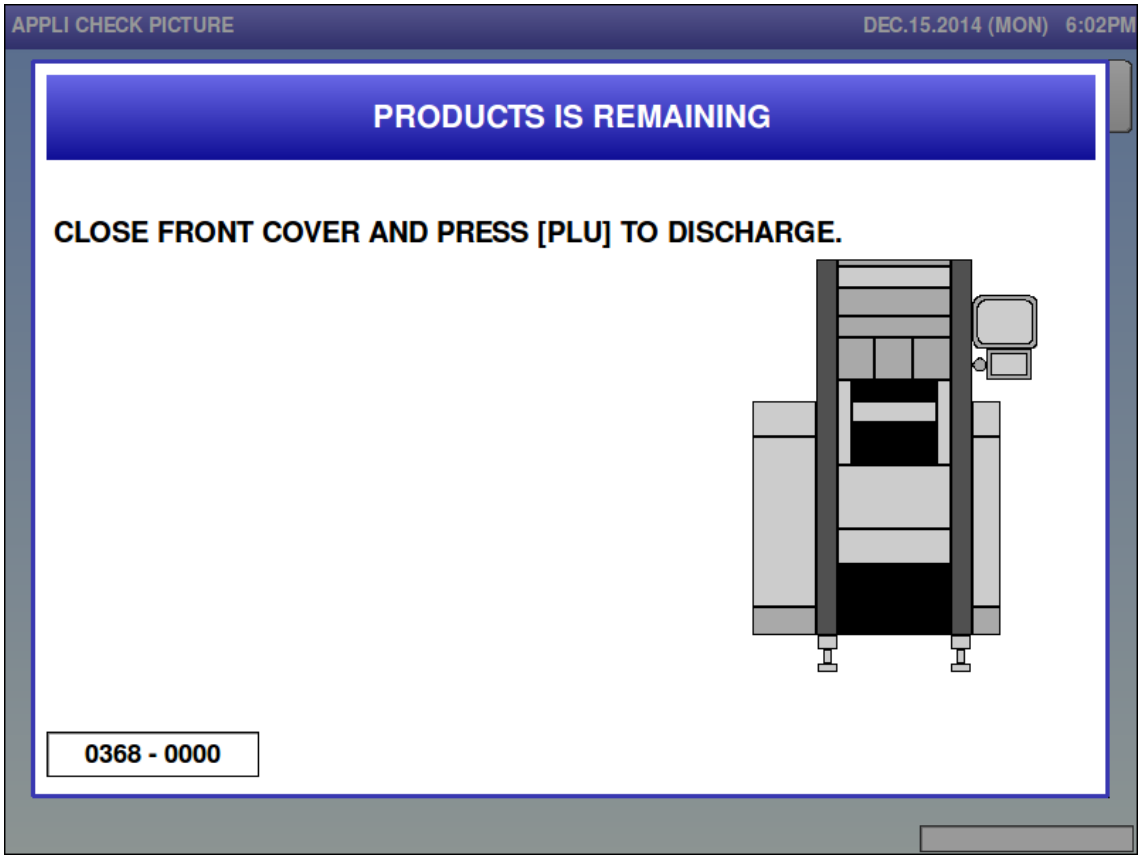
Error content	Front cover is closed.
Detail	Occurs when performing printing or unloaded feed (No.1.and 2) while front cover is closed.
Solution	Open the front cover, [OK] button
Action by user	Open the front cover.
Action by service representative	Open the front cover.
Related part	Main board, wrapping machine board
Remarks	

■ It could not detect the tray (0363)



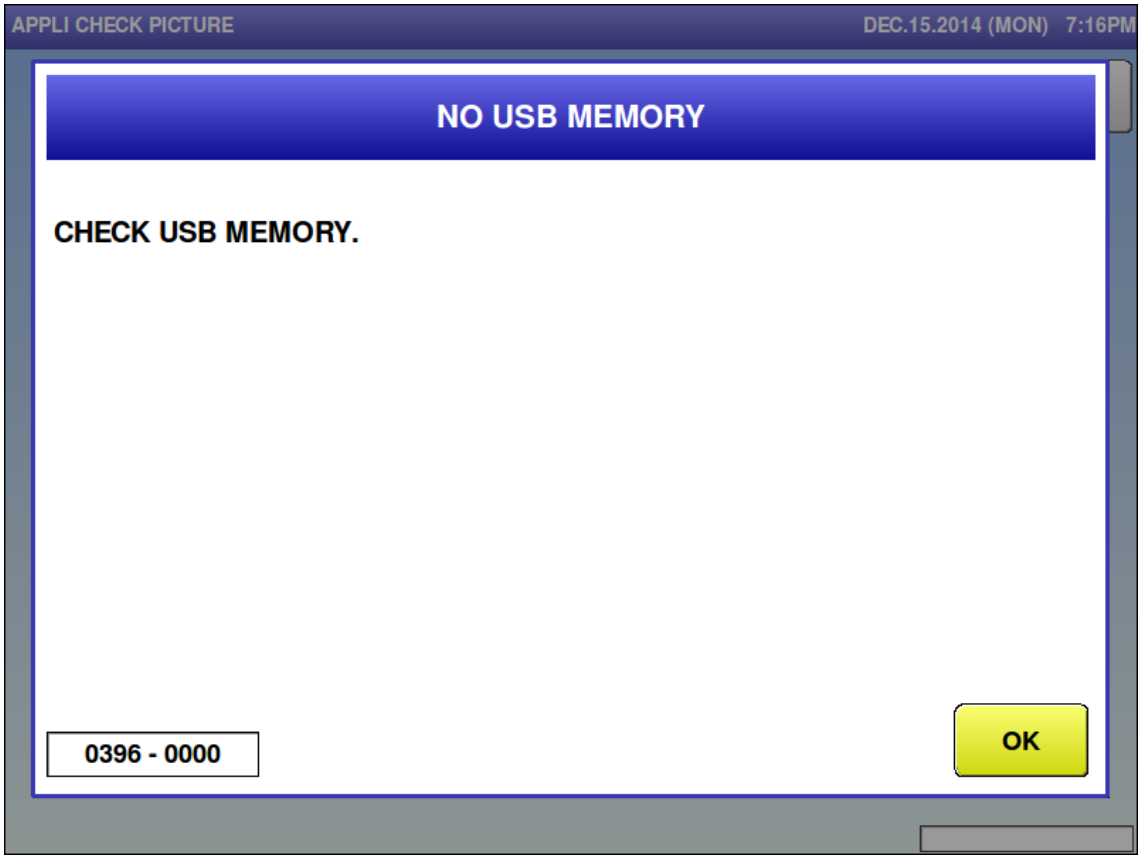
Error content	It could not detect the tray.
Detail	Occurs when a centered tray can't be detected normally. Occurs when a transparent tray is set to the above conditions.
Solution	Unstable, [EXEC] button.
Action by user	Place the tray again. Confirm the tray master. Press the [EXEC] button. Change the setting to [Centering: No].
Action by service representative	Confirm the tray master. Change the setting to [Centering: No].
Related part	Main board, detection board
Remarks	

■ Product is remaining (0368)



Error content	The front cover was opened when the wrapper stopped and products remained on the lift.
Detail	
Solution	[PLU] button
Action by user	Close the front cover and press the [PLU] key.
Action by service representative	Close the front cover and press the [PLU] key.
Related part	Main board, wrapping machine board
Remarks	* Product is discharged by pressing the [PLU] button. * Added to the total amount.

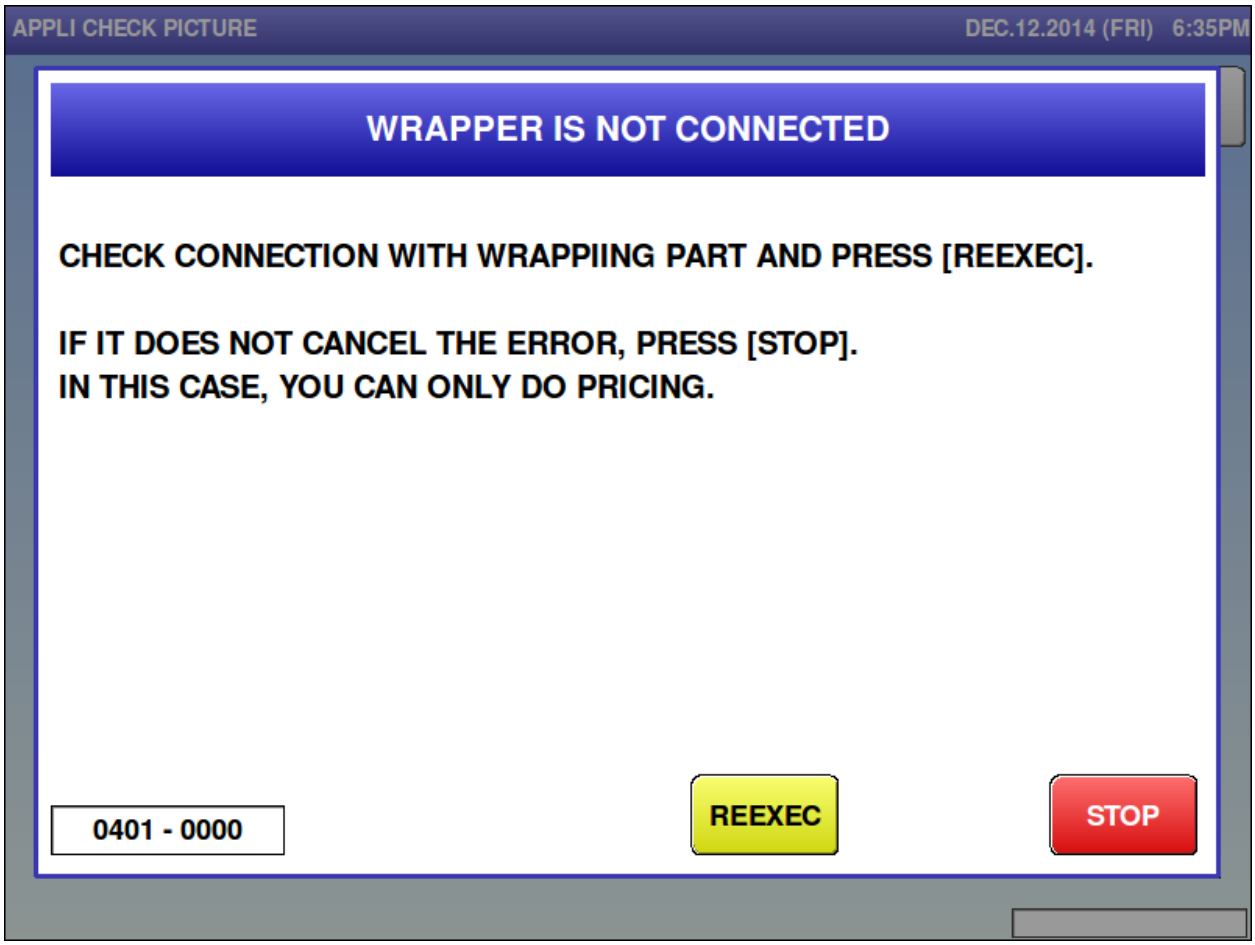
■ No USB memory (0396)



Error content	USB memory is not inserted.
Detail	
Solution	[OK] button
Action by user	Set the USB memory to the machine.
Action by service representative	Set the USB memory to the machine. Confirm the USB memory (recommended by Ishida) inserted.
Related part	Main board
Remarks	

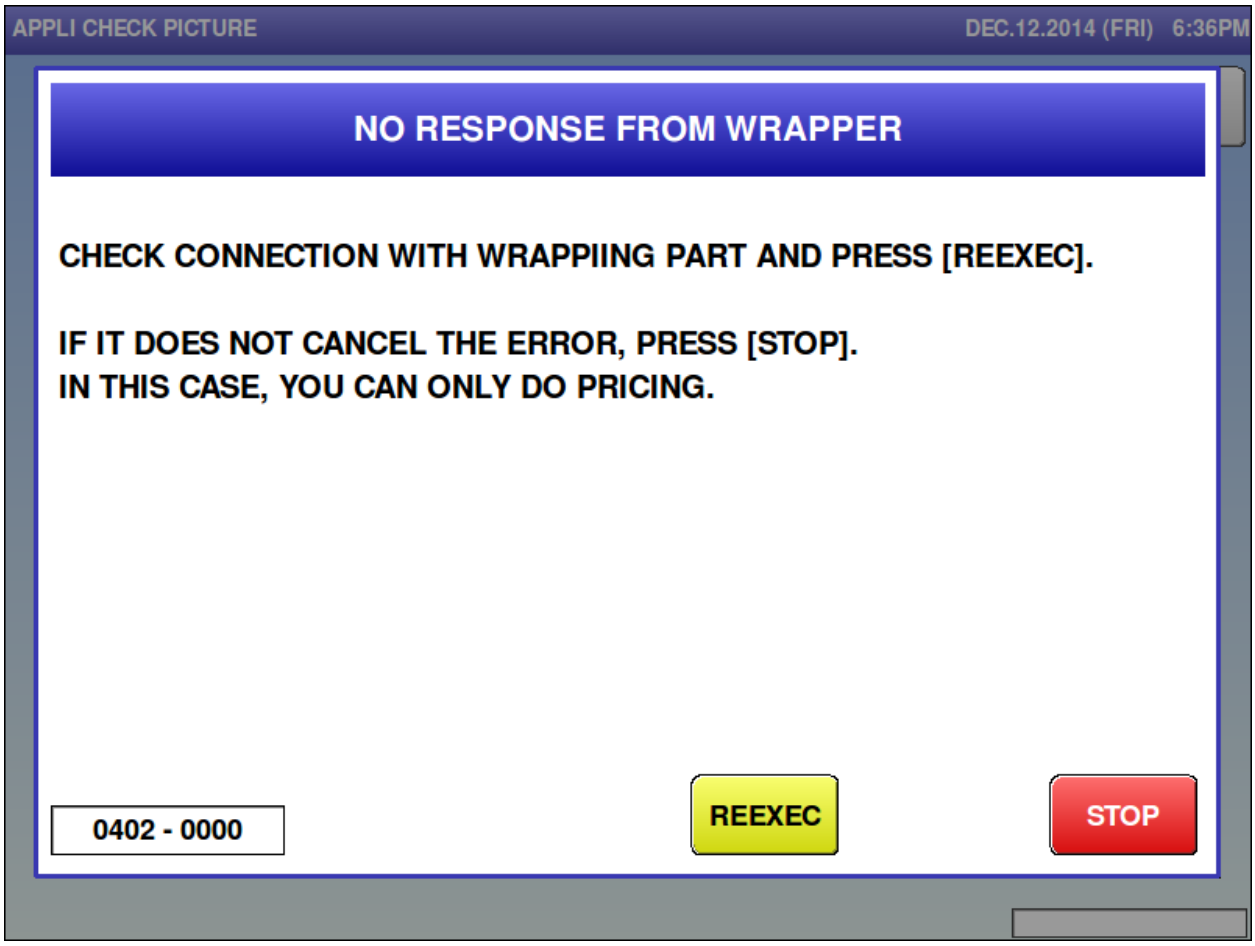
6.3.4 Wrapper-related Error (No. 400s)

■ Wrapper is not connected (401)



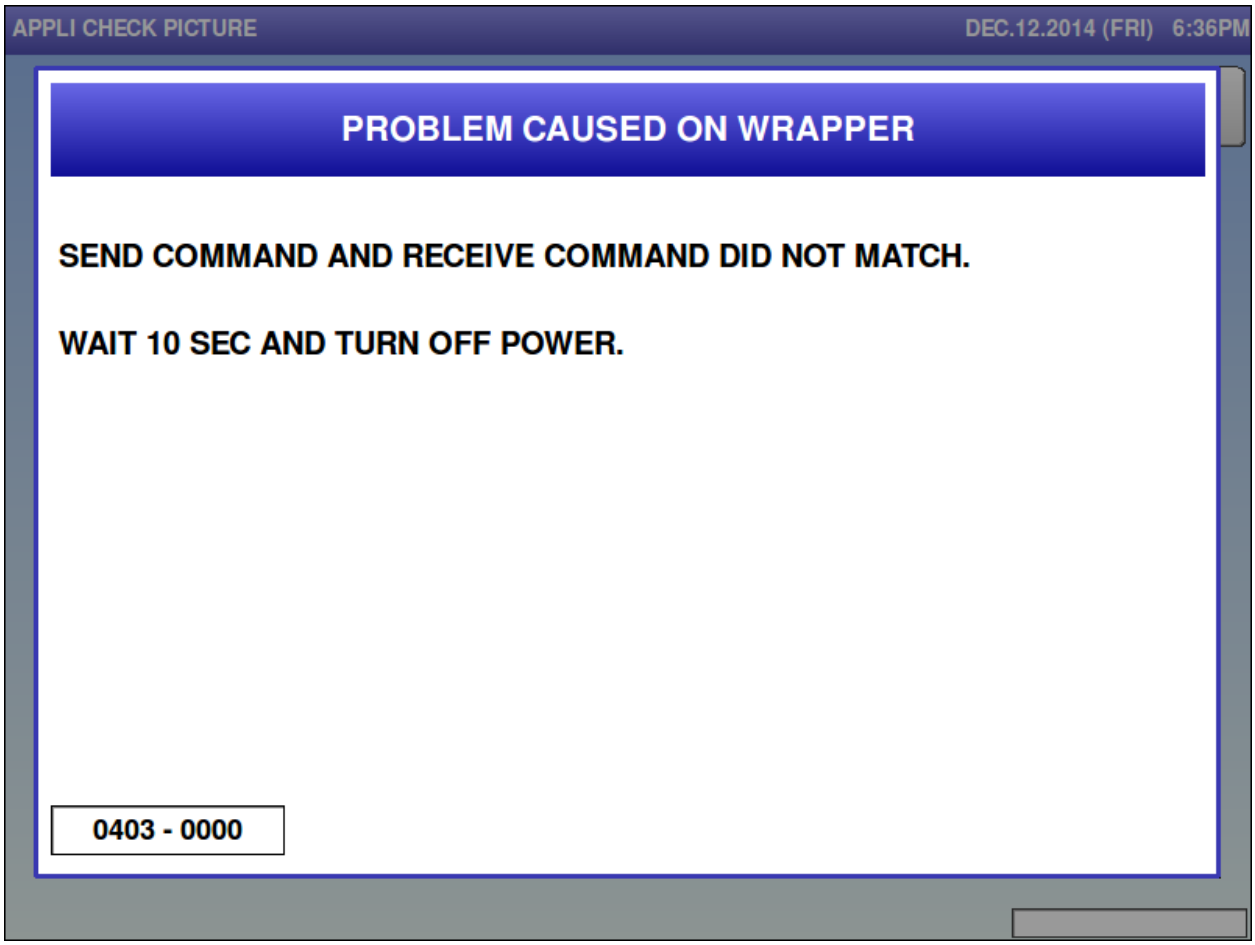
Error content	Wrapper is not connected.
Detail	Communication error before power has been turned ON. Communication phase No. is listed in the sub-error.
Solution	[STOP] button＝> Cancel error [REEXEC] button => Re-check the connection with the wrapper.
Action by user	Perform turn ON/OFF of the power supply.
Action by service representative	
Related part	
Remarks	After pressing the [STOP] button, only pricing can be performed.

■ No response from wrapper (402)



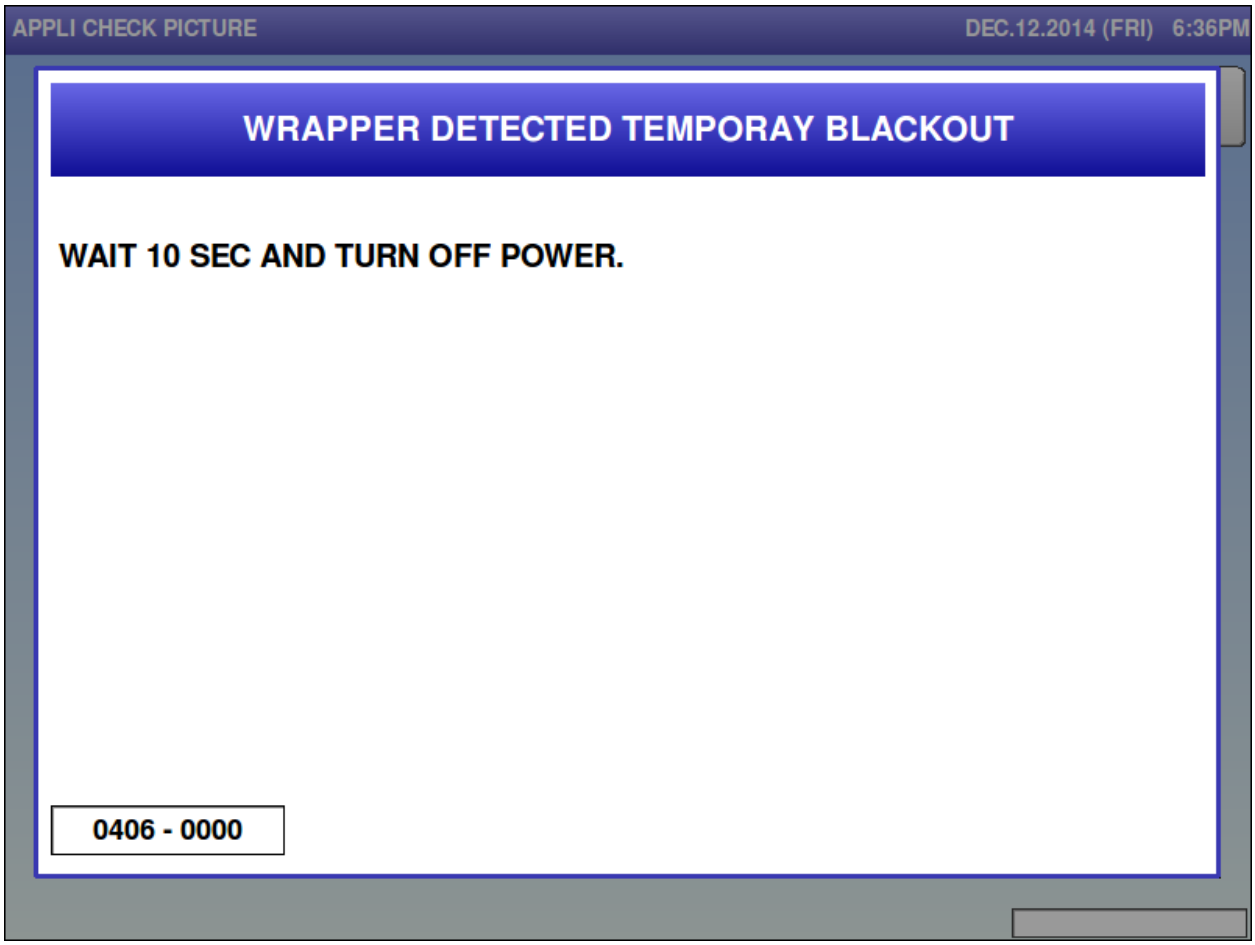
Error content	No response from wrapper
Detail	Communication error after power has been turned ON. Communication phase is listed in the sub-error.
Solution	[STOP] button => Cancel error. [REEXEC] button => Re-check the connection with the wrapper.
Action by user	Perform a power cycle.
Action by service representative	
Related part	① P-1105 [A200] ② 24VDC to the power supply (XJ12) of P-1105 [A200] ③ RS485 communication cable between main boards (P-1100, P-1163, P-1000)[A10] and P-1105 [A100, A200, A300]
Remarks	After pressing the [STOP] button, only pricing can be performed.

■ Problem caused on wrapper (403)



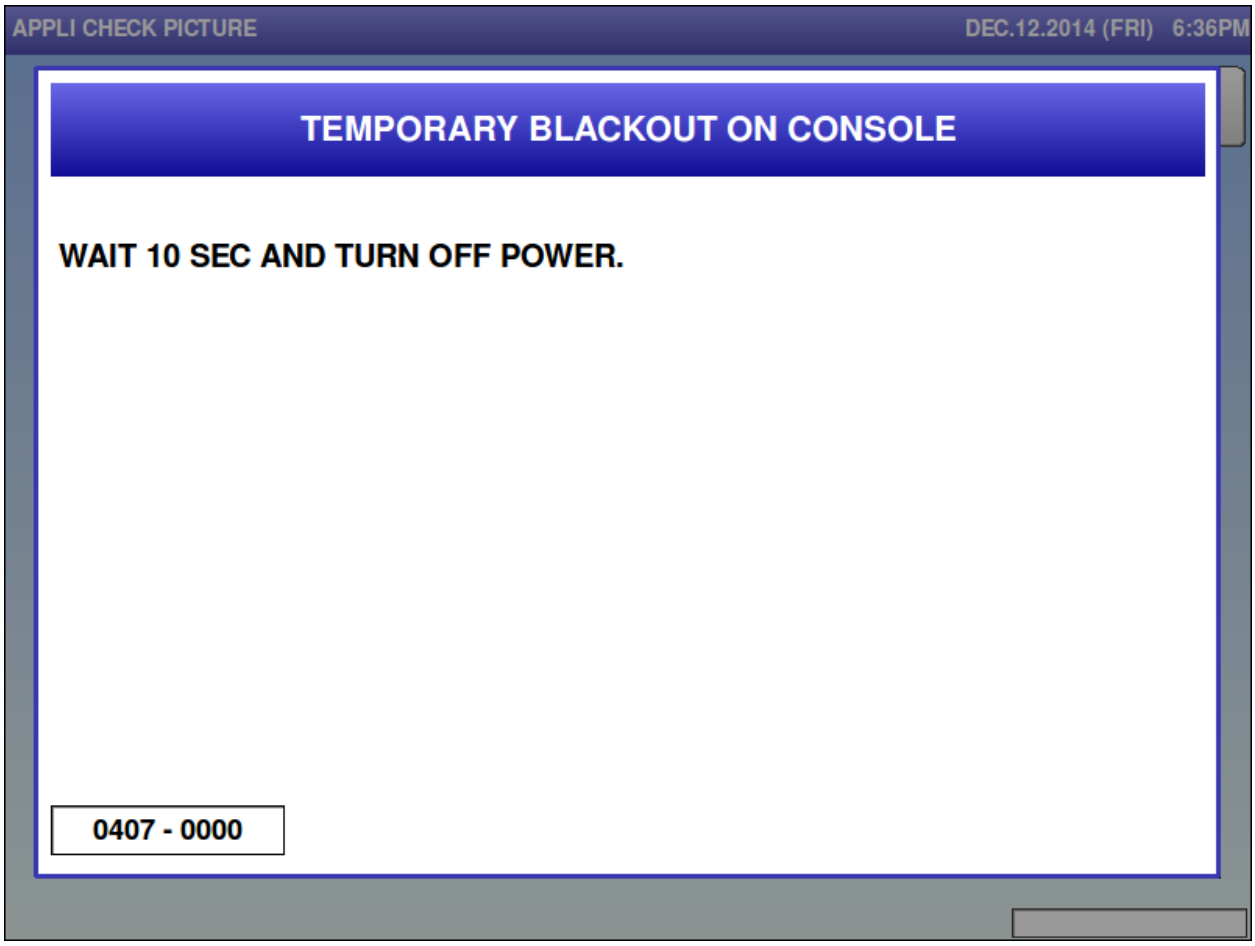
Error content	Communication failure with the wrapper.
Detail	Send command and receive command do not match
Solution	Restore power.
Action by user	Perform a power cycle.
Action by service representative	
Related part	① Main board (P-1100, P-1163 or P-1000) [A10] ② P-1105 [A100, A200, A300]
Remarks	

■ Wrapper detected temporary blackout (406)



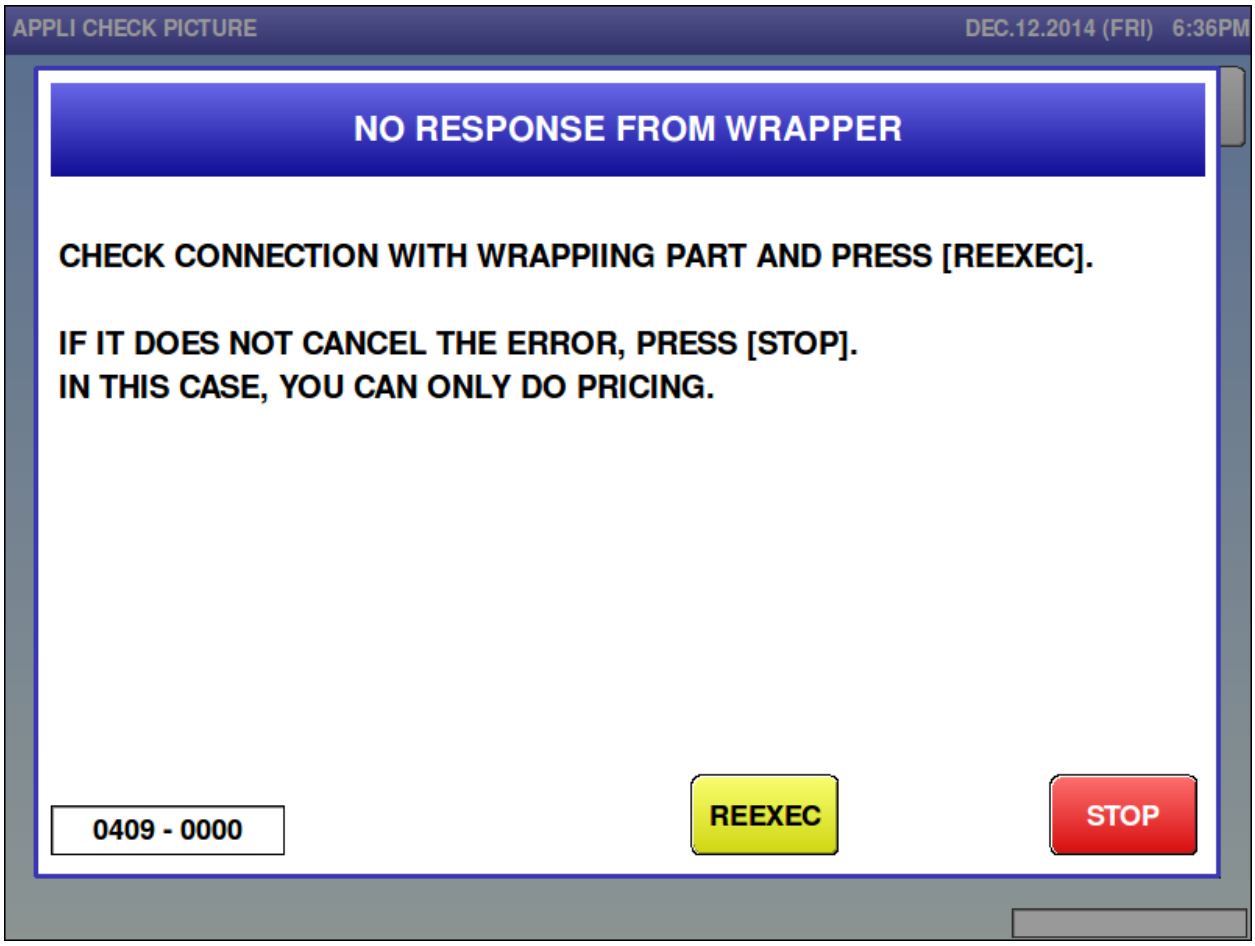
Error content	The wrapper control board detected the CPU reset.
Detail	The console received power ON notification (status query) twice from the wrapper.
Solution	Restore power
Action by user	Perform a power cycle.
Action by service representative	
Related part	① P-1105 [A200] ② Control unit section switching power supply [U10]
Remarks	

■ Temporary blackout on console (407)



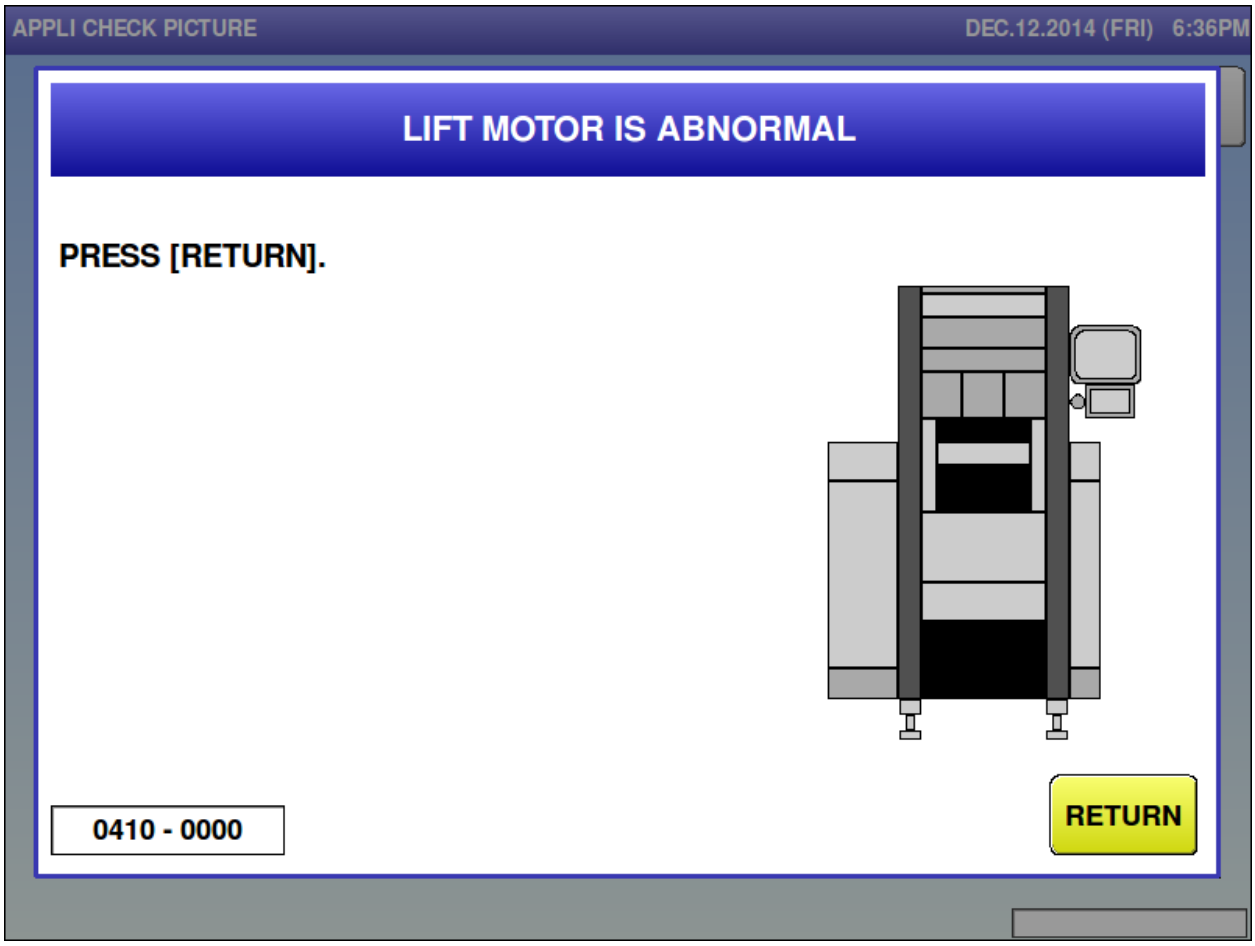
Error content	Console CPU was reset
Detail	Received Power ON notification from the console twice.
Solution	
Action by user	Perform a power cycle.
Action by service representative	
Related part	① Main board (P-100, P-1163 or P-1000) [A10] ② Control unit section switching power supply [U10]
Remarks	

■ No response from wrapper (409)



Error content	The wrapper is not connected.
Detail	Communication error when power has been turned ON. Communication phase is listed in the sub-error.
Solution	[STOP] button => Cancel error. [REEXEC] button => Re-check the connection with the wrapper.
Action by user	Perform a power cycle.
Action by service representative	
Related part	
Remarks	After pressing the [STOP] button, only pricing can be performed.

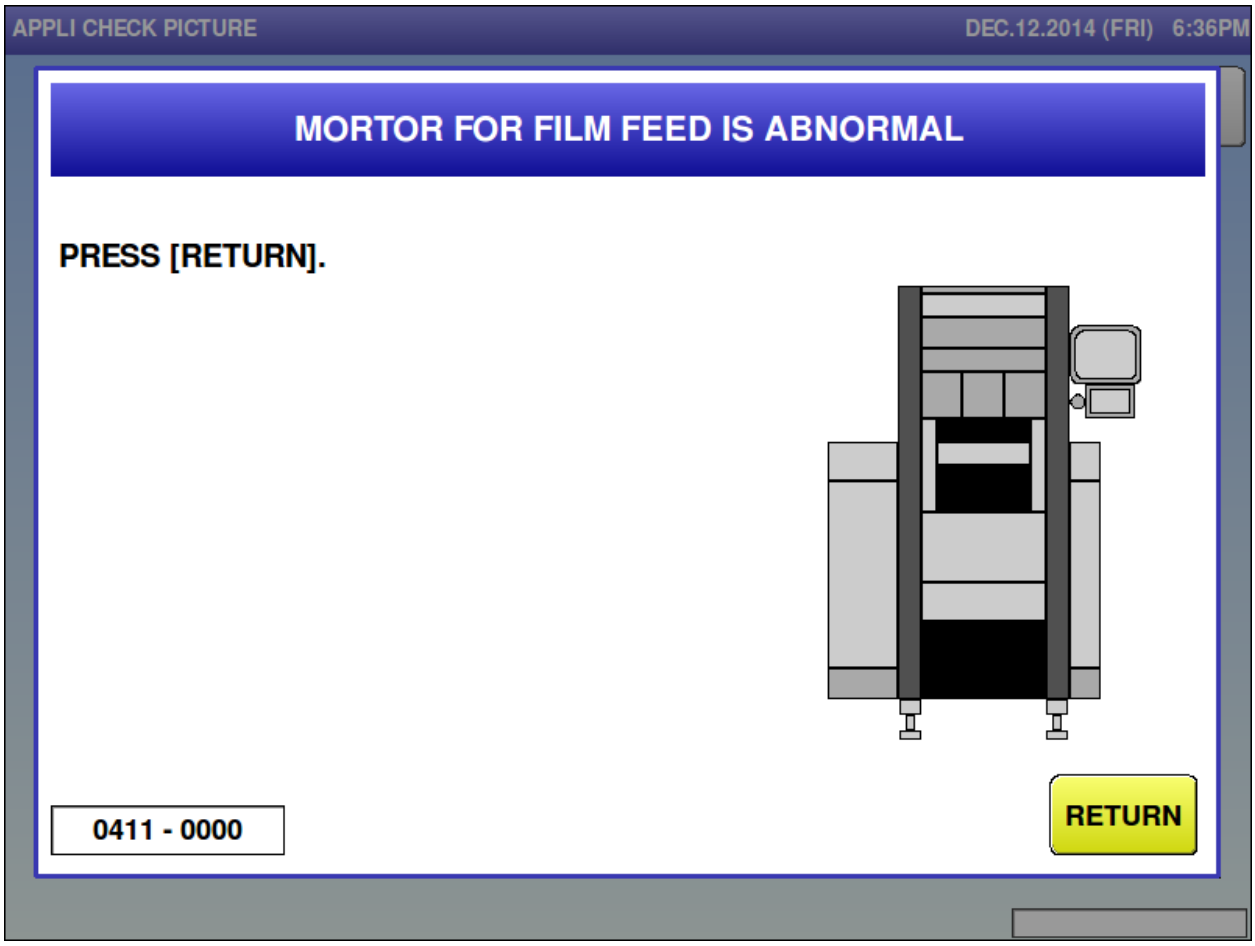
■ Lift motor is abnormal (410)



Error content	Lift motor is abnormal
Detail	Lift motor operation did not finish normally Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0003: DCB motor is overloaded. 0004: Feedback pulse from DCB motor has an error (phase interruption). 0101: The lower side of lift [B203] is not receiving light, when lowering the lift. 0102: The lower side of lift [B203] is emitted light, after switching or returning the lift. 0103: The origin point of lift [B202] and the lift safety [B204] are not receiving light when the lift backs to its origin point. 0104: The origin point of lift [B202] and the lift safety [B204] are not receiving light when the lift is in its switch position. 0105: The origin point of lift [B202] is not receiving light when lowering the lift. The lift lower side position [B203] is emitted light wen the lift backs to its origin point. 0106: Do not block light of the lift origin point [B200] when the lift is moving to the origin point after the lift changeover. 0107: The lift origin point [B200] is not receiving light when lowering the lift. 0201: The lift origin point [B200] is not receiving light even after a certain period of time after the lift starts operation.
Solution	[RETURN] button
Action by user	

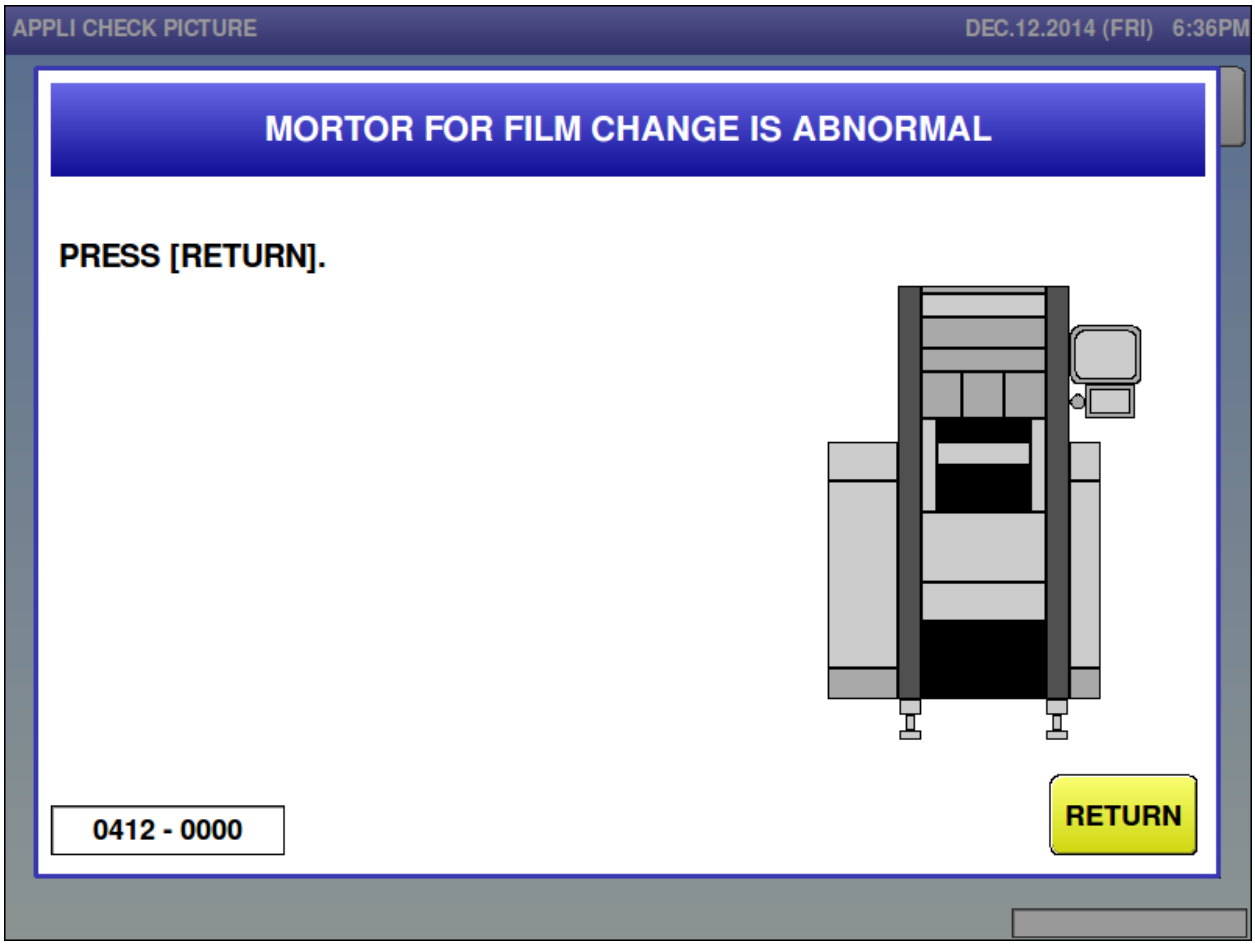
Action by service representative	
Related part	① P-1105 [A200] ② Motor for lift [M06] ③ Sensors described above: [B200], [B202], [B203], [B204]
Remarks	

■ Motor for film feed is abnormal (411)



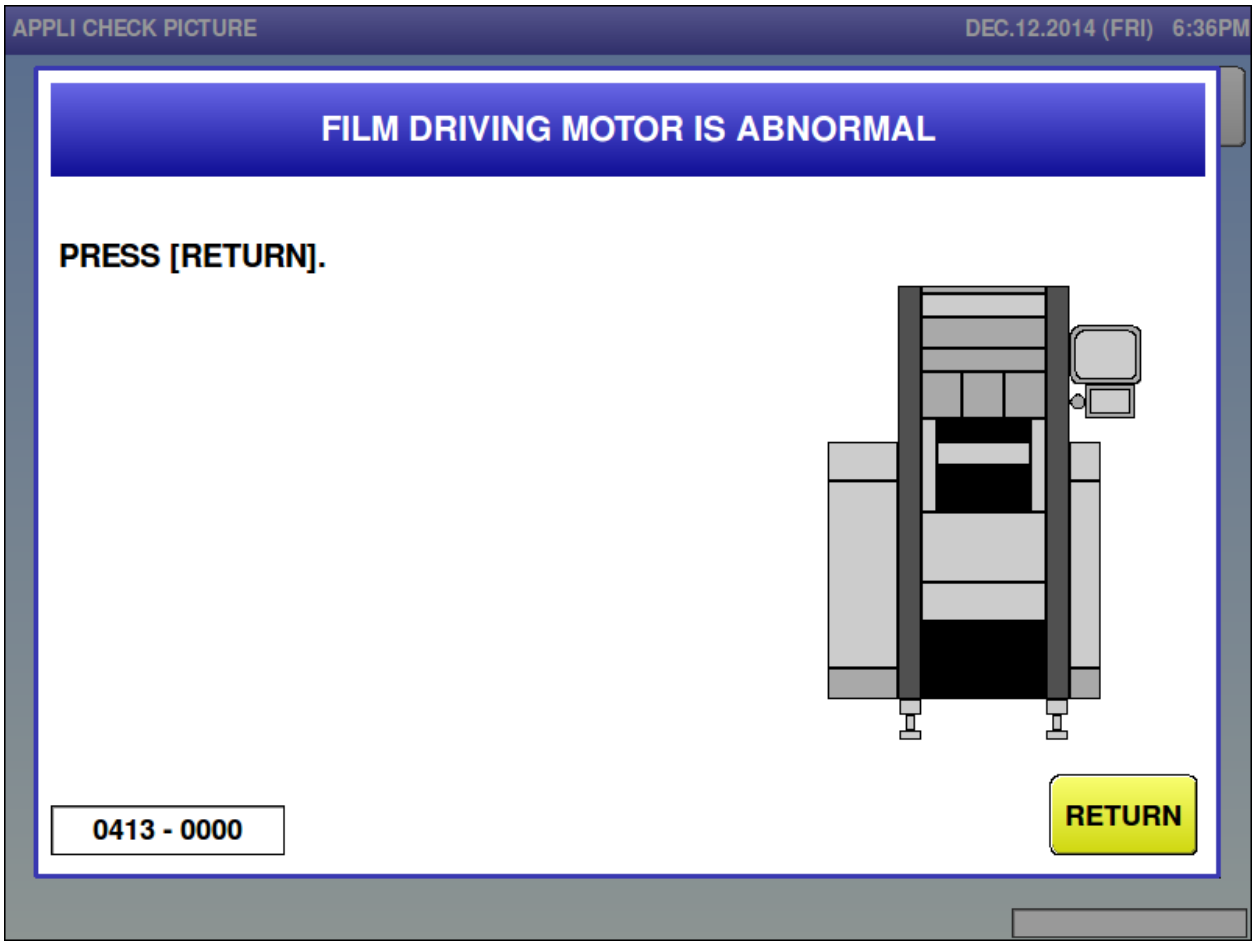
Error content	Motor for film feed is abnormal
Detail	Film insert motor operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0011: The insert motor was stepped out when the film is traveling. 0021: The insert didn't back to the normal position when the cutter starts operation.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A300] ② P-1006 [A301] ③ Stepping motor for film feed [M303] ④ Film feed origin point [B301]
Remarks	

■ Motor for film change is abnormal (412)



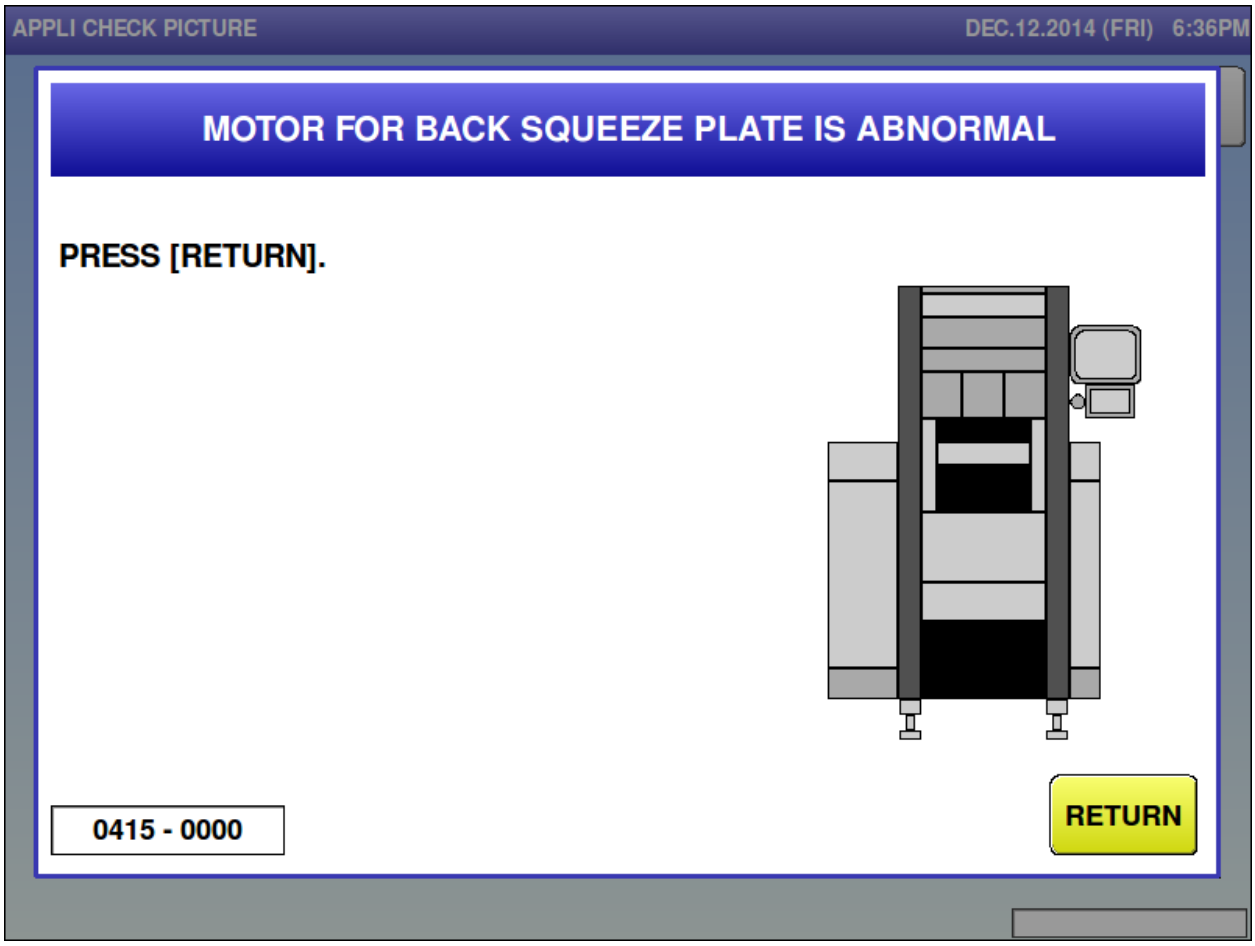
Error content	Motor for film change error
Detail	Motor for film change operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0011, 12: The origin point of film 2 change [B309] is not receiving light at the timing not to receive light. 0020: The origin point of film 1 change [B304] and the origin point of film 2 change [B309] are receiving light when the insert operation or change operation start.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A300] ② P-1006 [A301] ③ Stepping motor for film change [M304] ④ Origin point of film 1 change [B304], origin point of film 2 change [B309]
Remarks	

■ Film driving motor is abnormal (413)



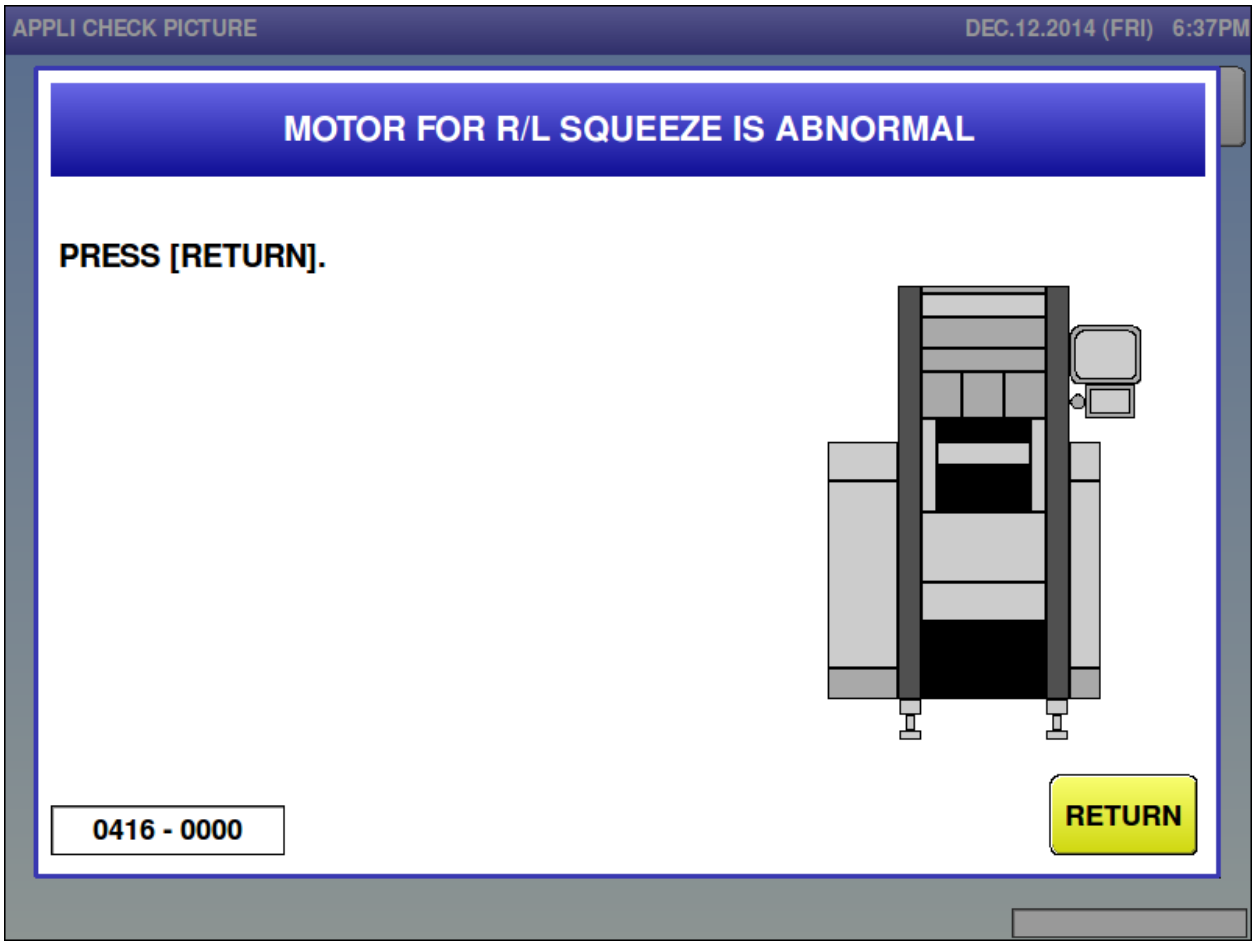
Error content	Film driving motor error
Detail	Film driving (right) motor operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0003: DCB motor is overloaded. 0004: Feedback pulse from DCB motor has an error (phase interruption).
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A300] ② Film driving motor [M08]
Remarks	

■ Motor for back squeeze plate is abnormal (415)



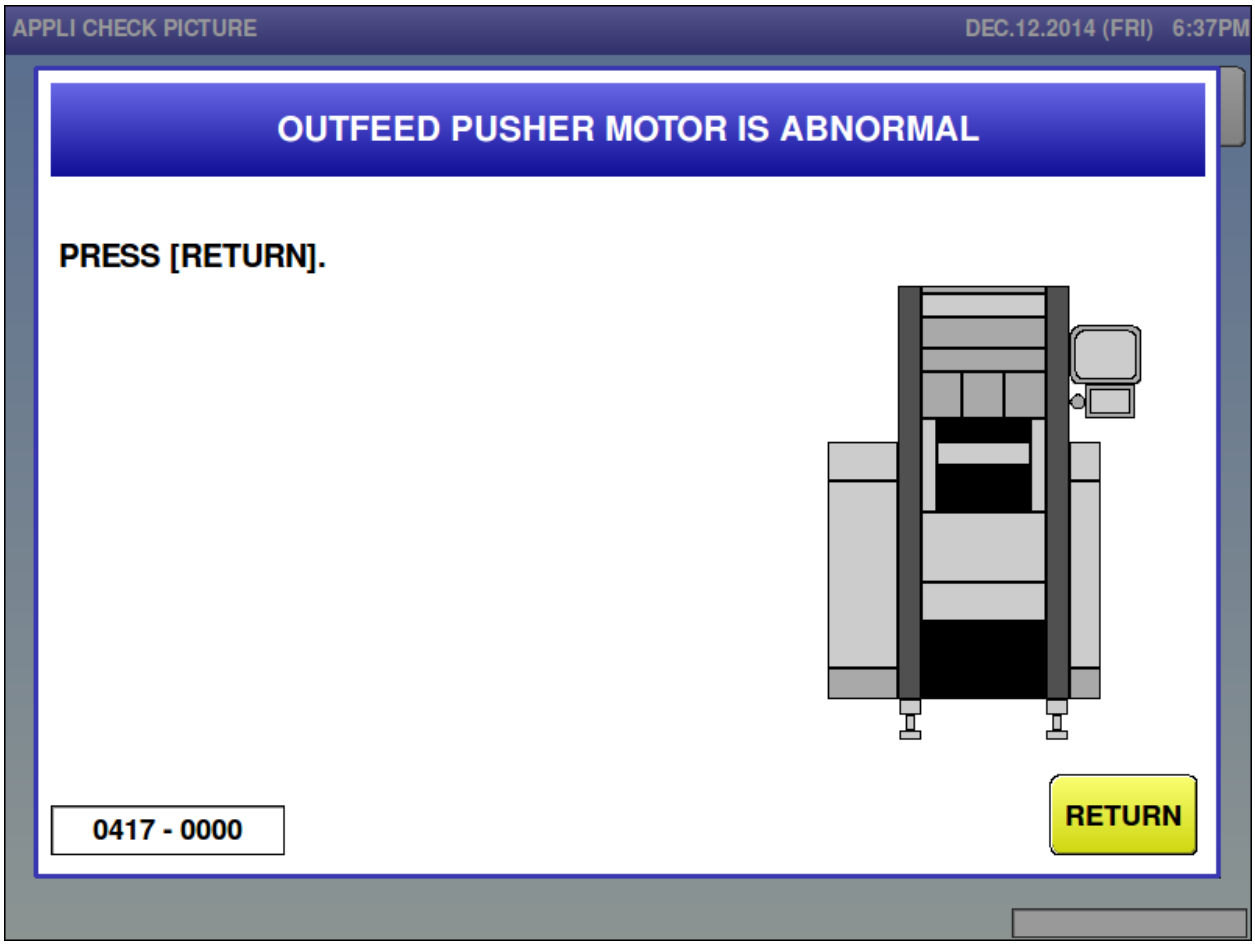
Error content	Motor for back squeeze plate error
Detail	Motor for back squeeze plate operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0003: DCB motor is overloaded. 0004: Feedback pulse from DCB motor has an error (phase interruption). 0011: The origin sensor is not receiving light at the timing with the origin sensor not receiving light.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A100] ② Driving motor for back squeeze plate [M02] ③ Origin point of back squeeze plate [B101]
Remarks	

■ Motor for R/L squeeze is abnormal (416)



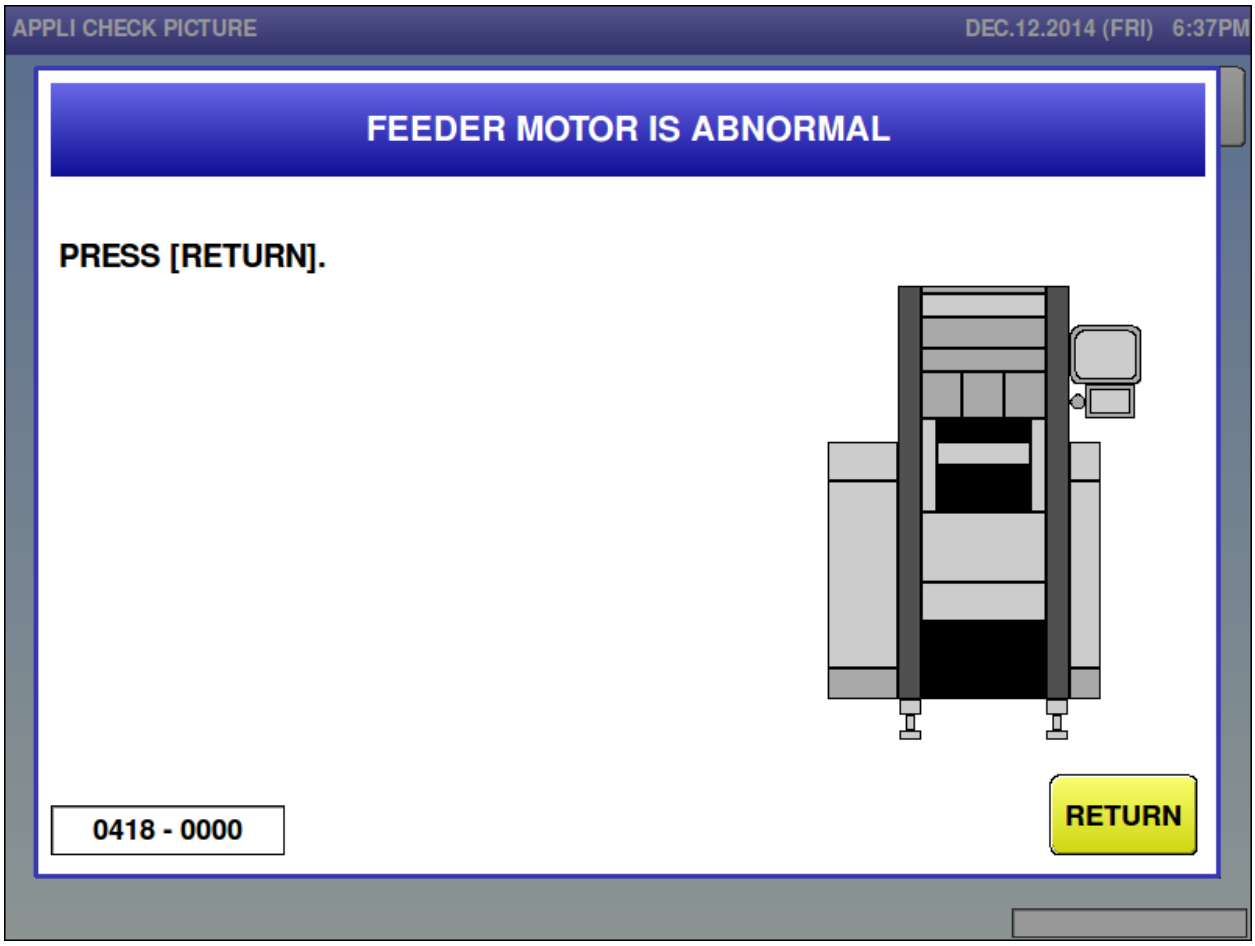
Error content	Motor for R/L squeeze error
Detail	Motor for R/L squeeze operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0003: DCB motor is overloaded. 0004: Feedback pulse from DCB motor has an error (phase interruption). 0011: The origin sensor is not receiving light at the timing with the origin sensor not receiving light.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A100] ② Driving motor for R/L squeeze [M03] ③ Origin point of R/L squeeze [B102]
Remarks	

■ Outfeed pusher motor is abnormal (417)



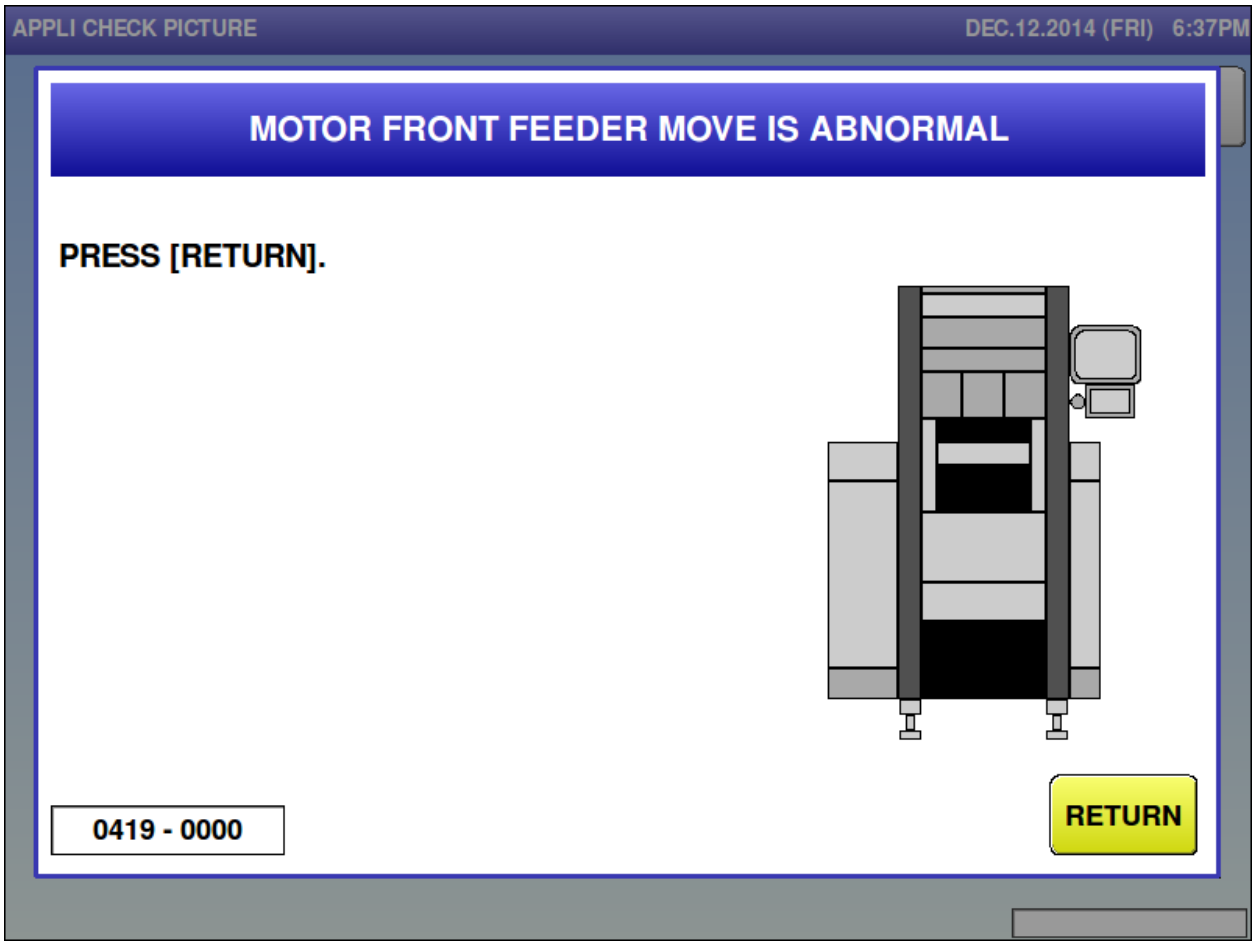
Error content	Outfeed pusher motor error
Detail	Outfeed pusher motor operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0002: Cannot detect speed pulse signal from the DCB motor (driver board). 0003: DCB motor is overloaded. 0004: Feedback pulse from DCB motor has an error (phase interruption). 0005: Began next product operation before the previous operation was completed (unsuitable wrapper condition). 0006: The next product stuck out before the previous operation was completed (unsuitable wrapper condition). 1003: Tray press operation wasn't completed when the operation protection timer run out.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A100] ② Driving motor for outfeed pusher [M01]
Remarks	

■ Feeder motor is abnormal (418)



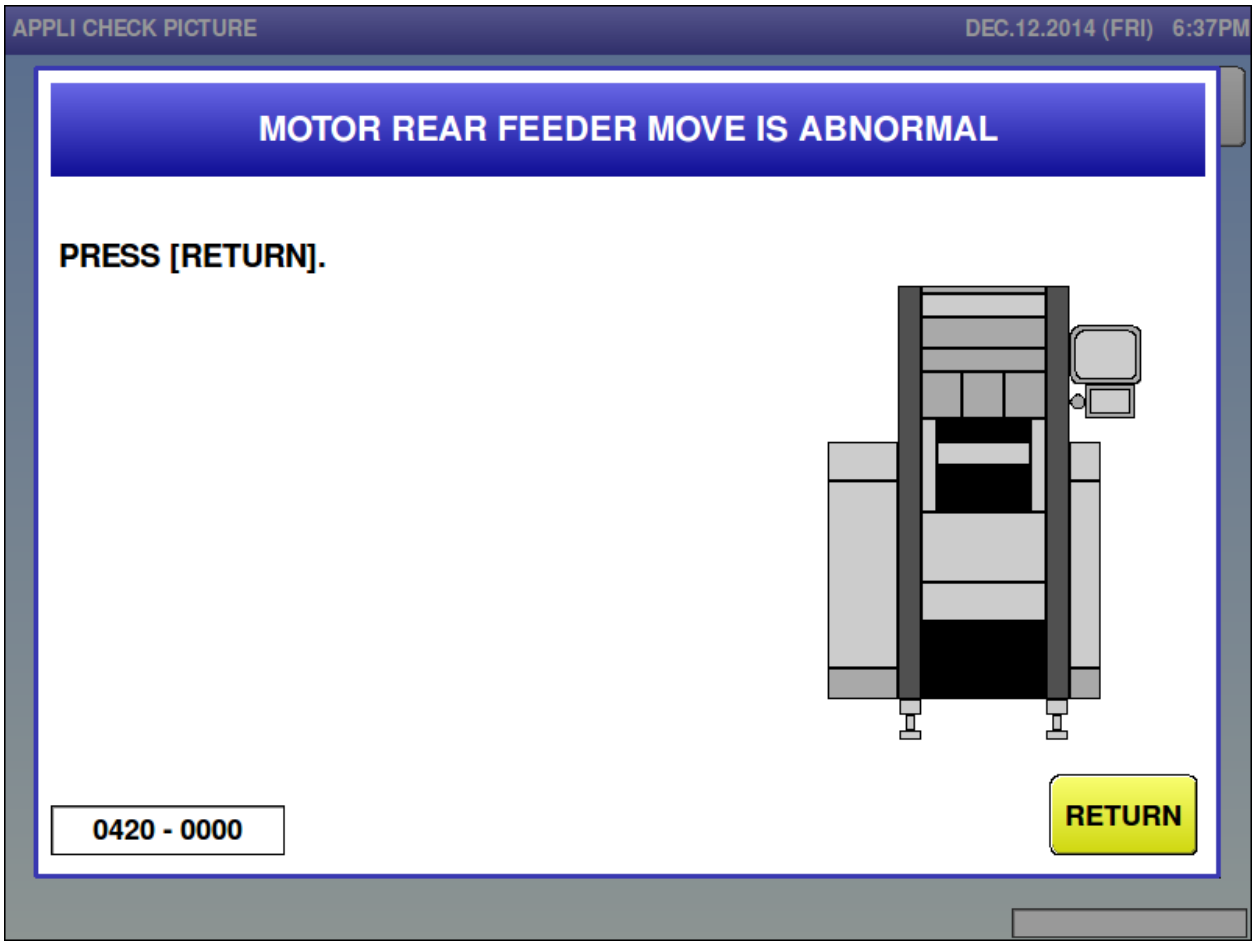
Error content	Feeder motor error
Detail	Feeder motor operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0003: DCB motor is overloaded. 0004: Feedback pulse from DCB motor has an error (phase interruption).
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A300] ② Driving motor for feeder [M09]
Remarks	

■ Motor front feeder move is abnormal (419)



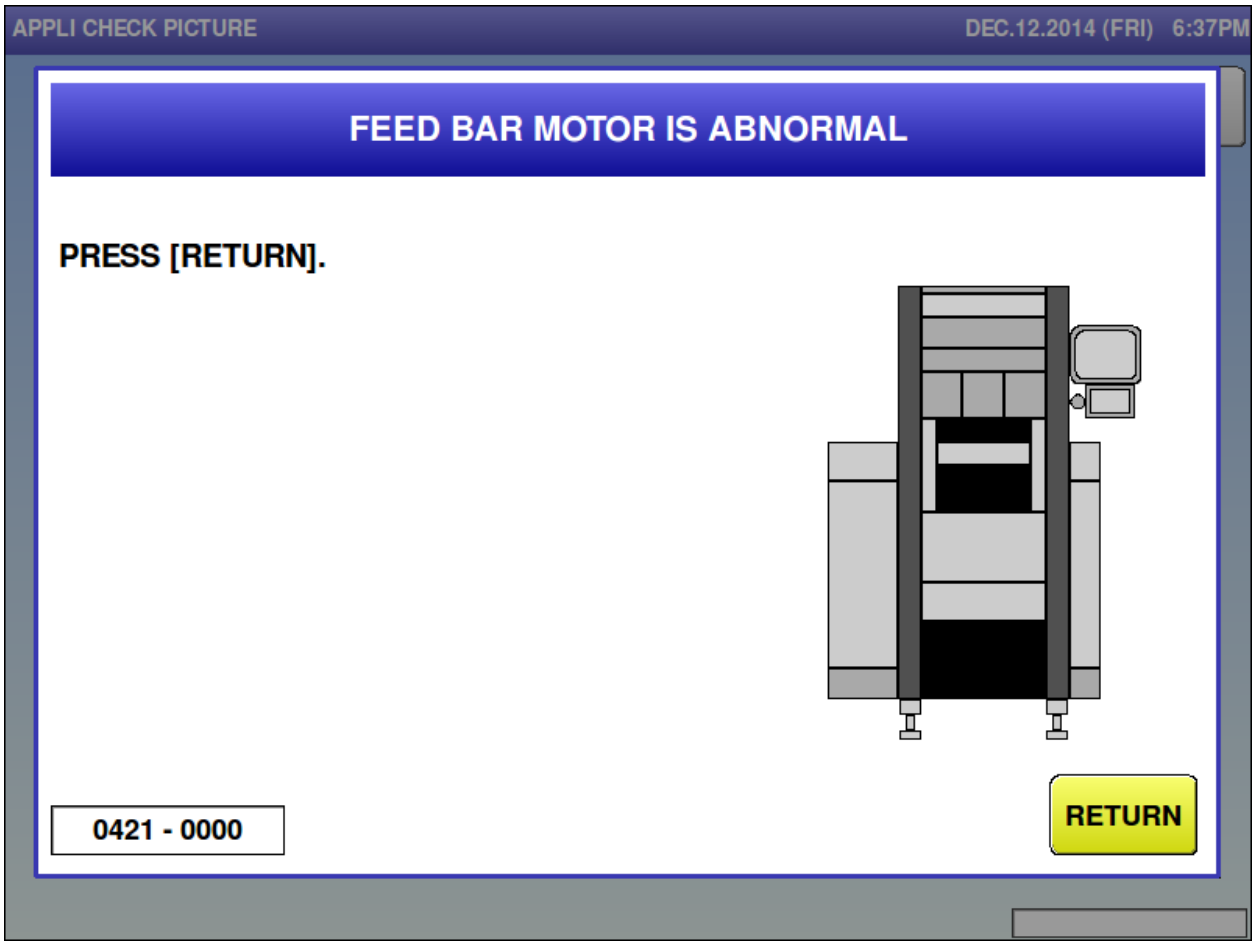
Error content	Motor front feeder error
Detail	Motor front feeder operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② P-1006 board for front feeder [A201] ③ Driving motor for feeder [M09] ④ Origin point of front feeder [B***]
Remarks	

■ Motor rear feeder move is abnormal (420)



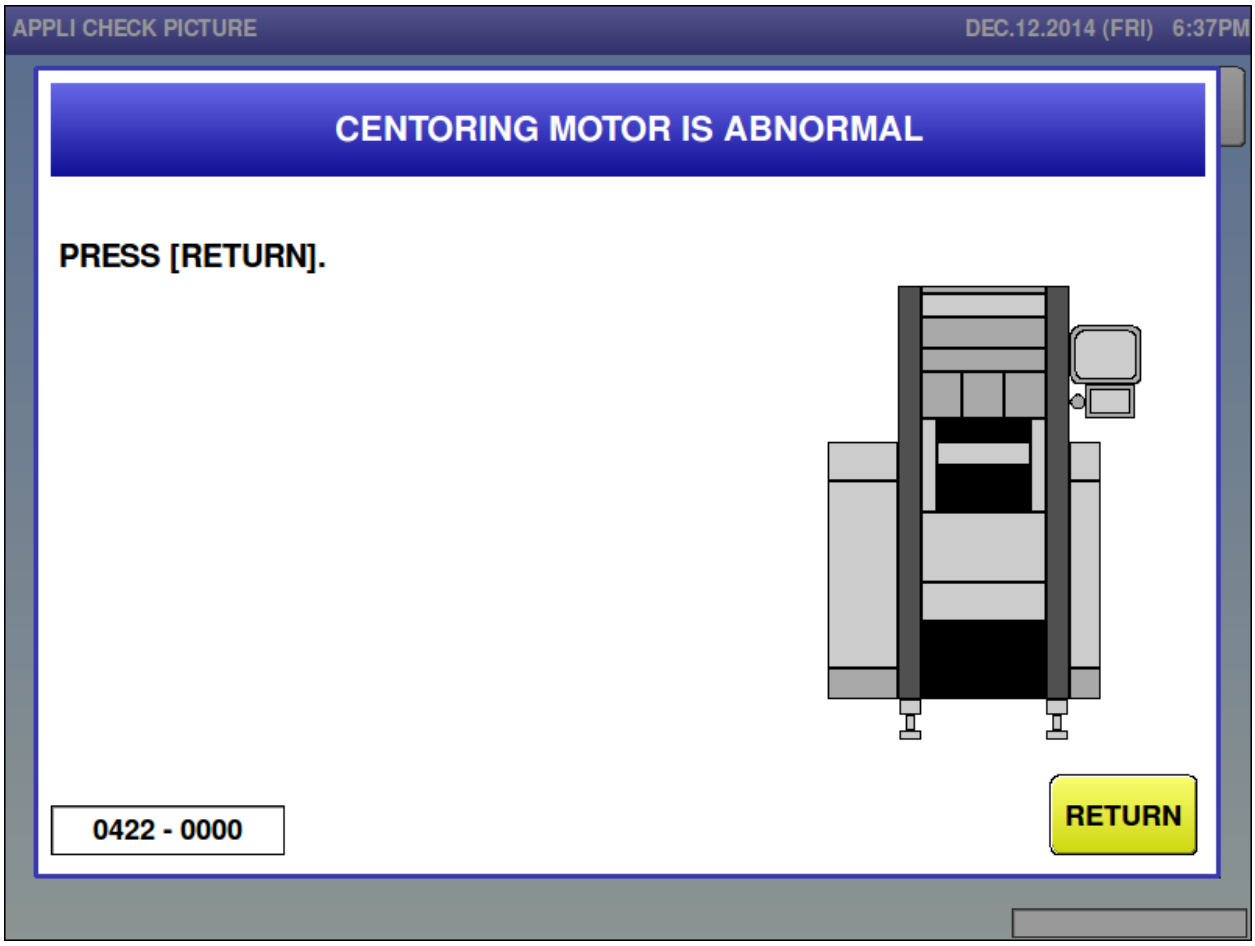
Error content	Motor rear feeder error
Detail	Motor rear feeder operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0003: DCB motor is overloaded. 0004: Feedback pulse from DCB motor has an error (phase interruption).
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Driving motor for feeder [M09] ③ Origin point of rear feeder [B212]
Remarks	

■ Feed bar motor is abnormal (421)



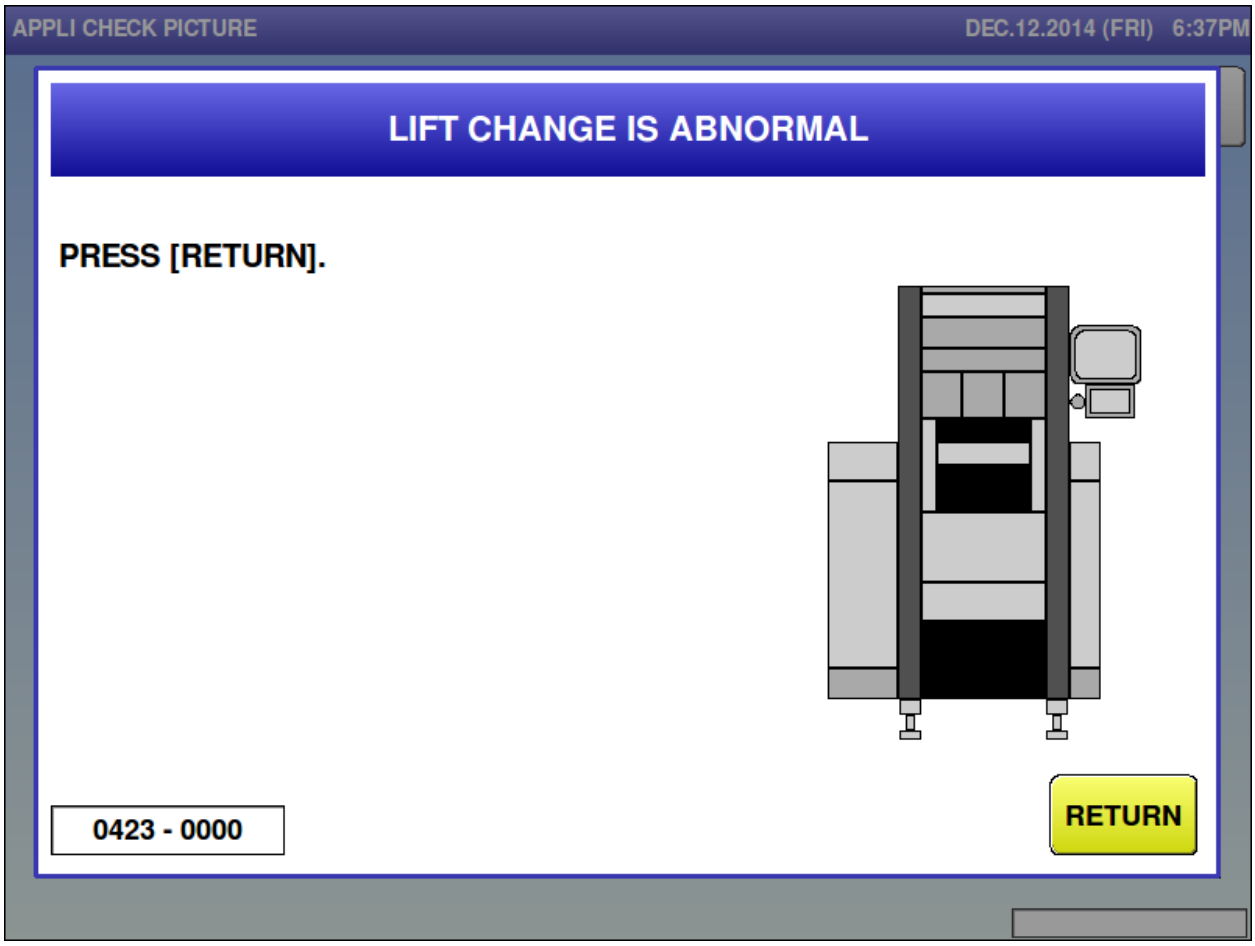
Error content	Feed bar motor error
Detail	Feed bar motor operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0003: DCB motor is overloaded. 0004: Feedback pulse from DCB motor has an error (phase interruption). 0999: Back feed was performed exceeding the count limit. 1000 or above: Motor was stepped out. The value indicates approximate location where stepping out was detected.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Feed bar motor [M04] ③ Origin point of feed bar [B204]
Remarks	

■ Centering motor is abnormal (422)



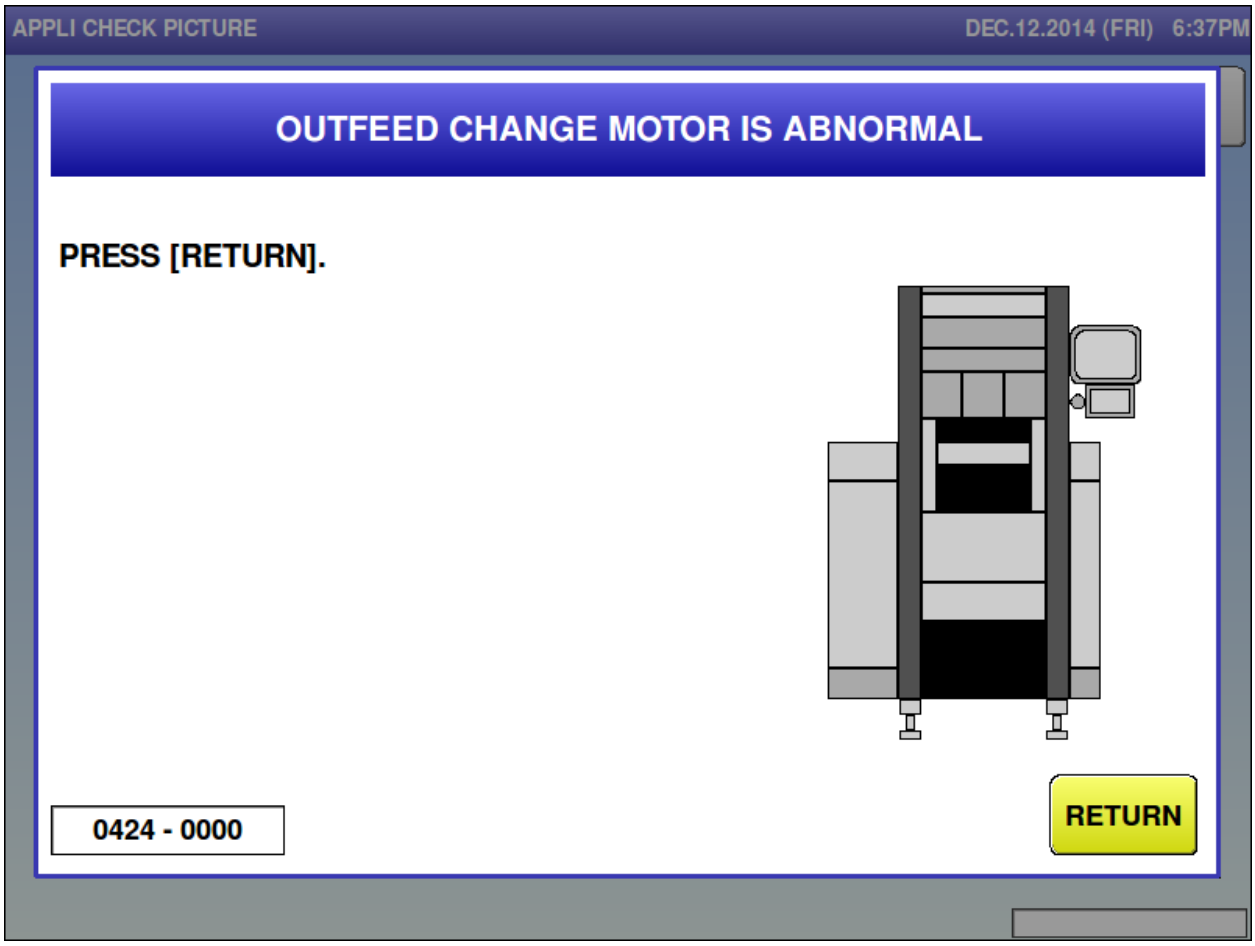
Error content	Centering motor error
Detail	Centering motor operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② P-1006 board for tray press/centering [A202] ③ Centering motor [M205] ④ Centering origin [B205]
Remarks	

■ Lift change is abnormal (423)



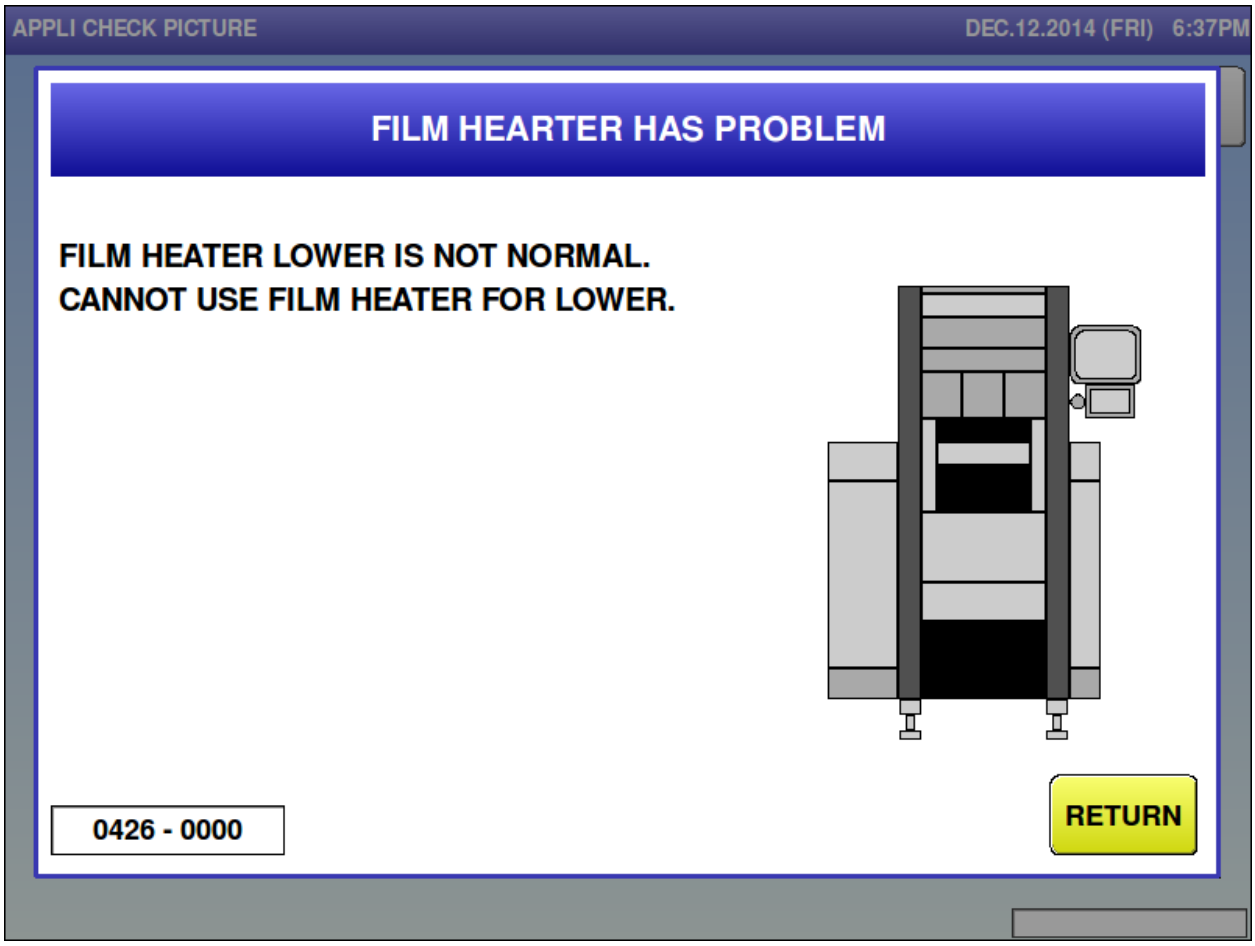
Error content	Lift change error
Detail	Lift change operation did not finish normally. Sub-error meanings are as follows: 0003: Changeover sensor is not receiving light when lowering the lift. 0010: Operation wasn't completed during changing to small lift. 0011: Operation wasn't completed during the changing to large lift.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Lift change solenoid position [B214] ③ Lift change solenoid [L200]
Remarks	

■ Outfeed change motor is abnormal (424)



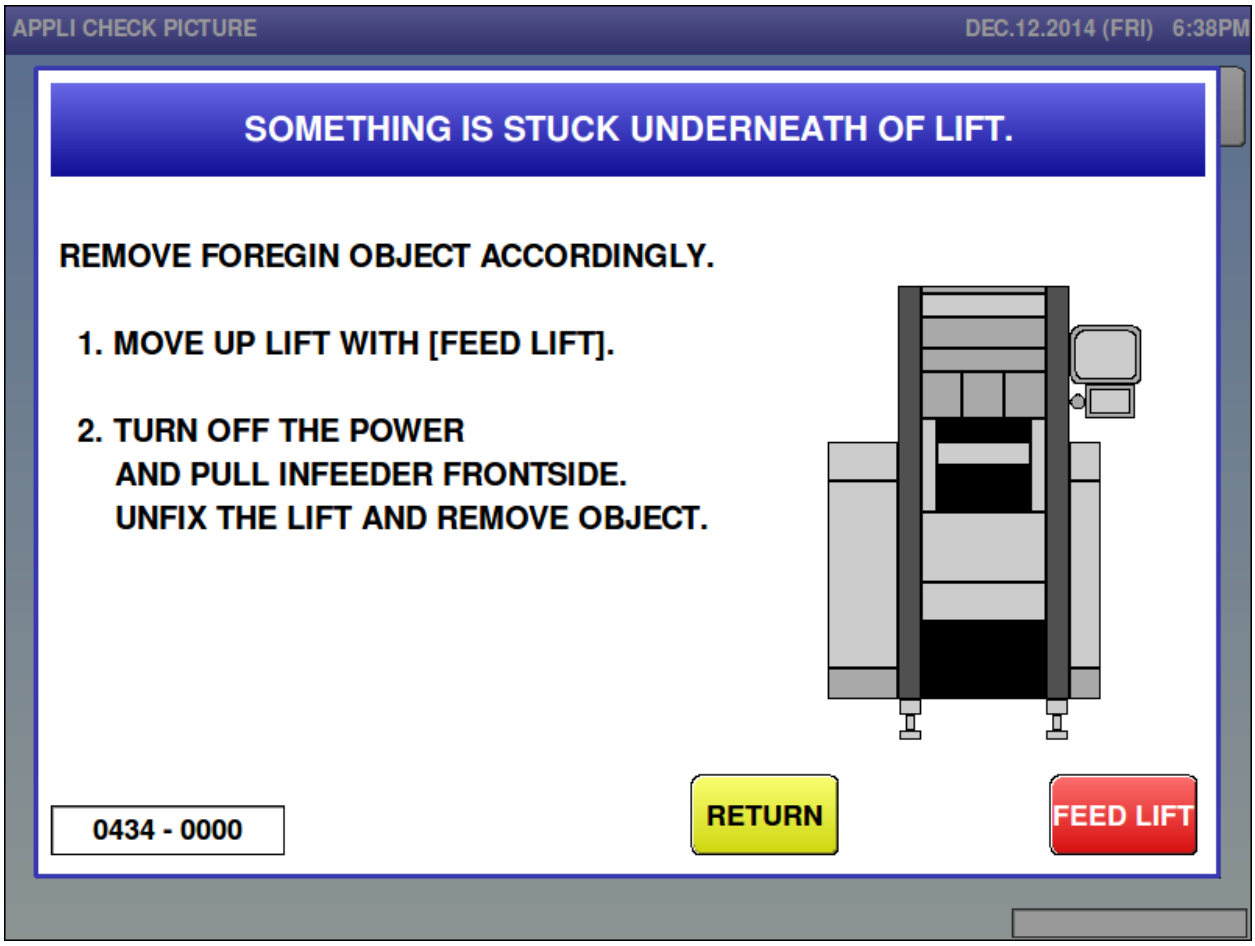
Error content	Outfeed change motor error
Detail	An error occurred in the stock conveyor attached to the wrapper. Outfeed change motor operation did not finish normally. Sub-error meanings are as follows: 0001: Operation wasn't completed when the operation protection timer run out. 0003: DCB motor is overloaded. 0004: Feedback pulse from DCB motor has an error (phase interruption).
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A300] ② Driving motor for outfeed conveyor [M07]
Remarks	

■ Film heater has problem (426)



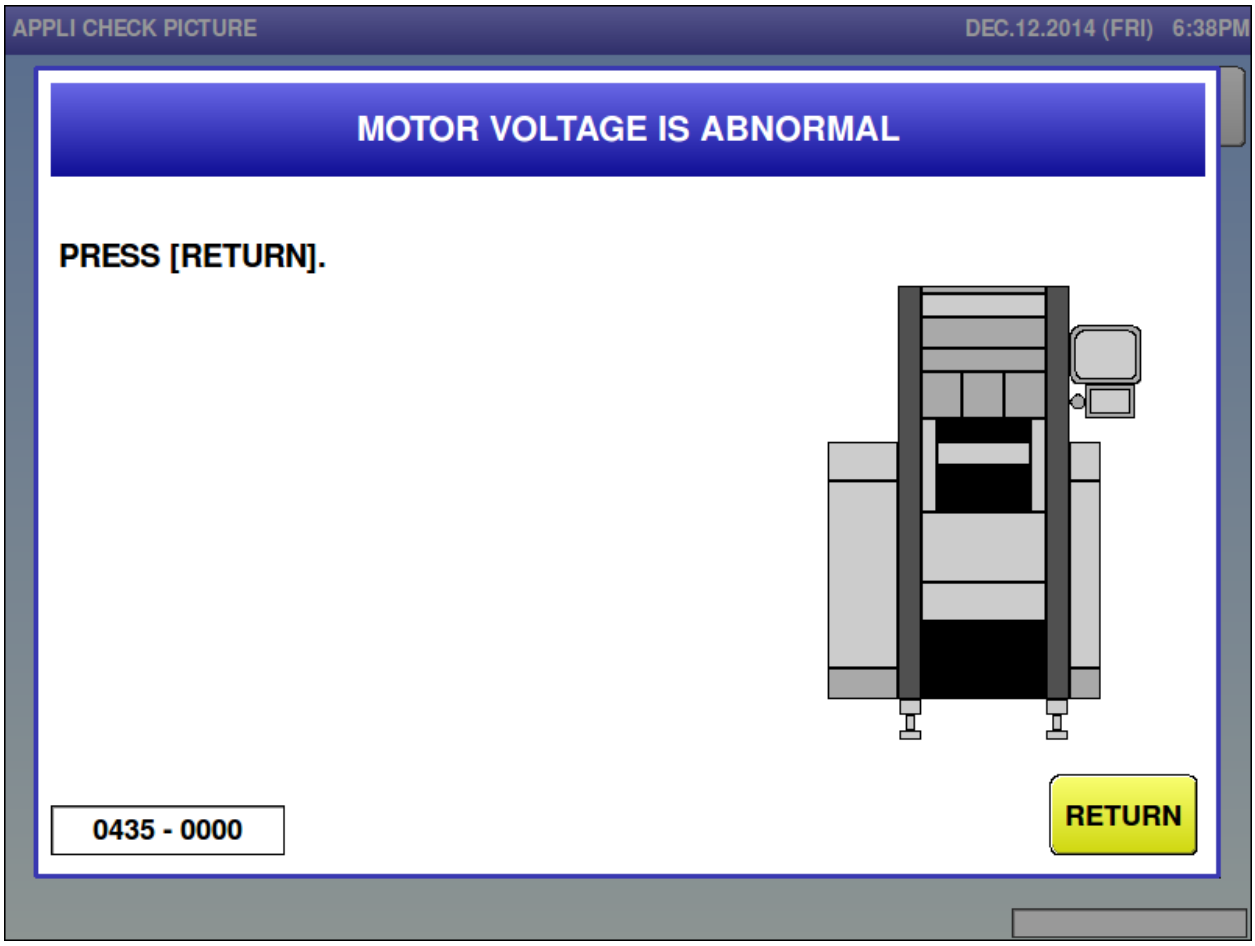
Error content	Film heater error
Detail	As an error occurs in film heater, unable to use the heater. Sub-error meanings are as follows: 0001: Thermistor of film heater is disconnected. 0100: A fan alarm occurs (alarm also occurs when connector is not inserted)
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A300] ② Thermistor for film heater [R300] ③ Fan for film heater [M305]: Sub-error is 100
Remarks	After the error occurrence, unable to use the left side film heater.

■ Something is stuck underneath of lift (434)



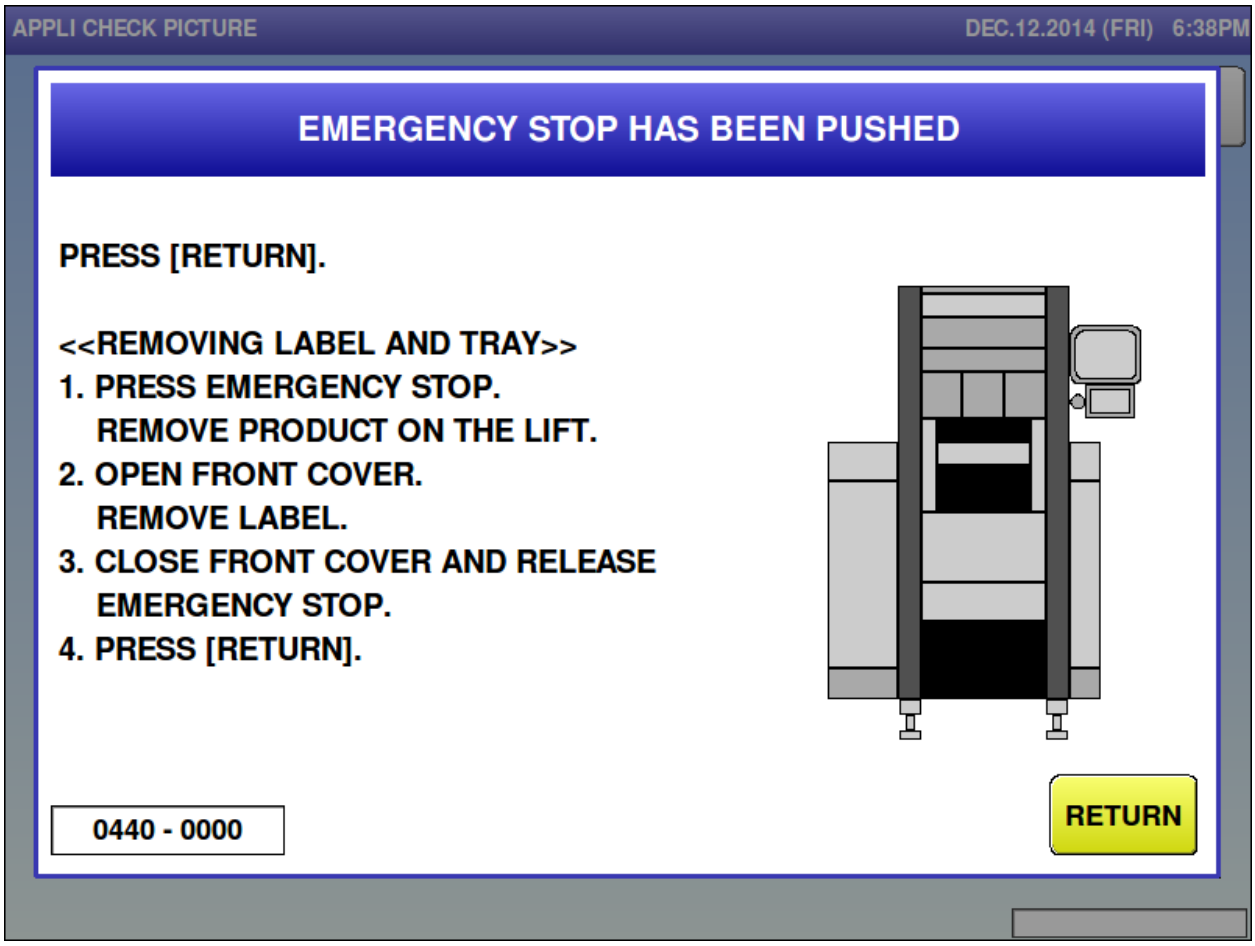
Error content	A object is caught under the lift
Detail	Occurs when an overload of lift motor is detected caused by an object caught under the lift. 0000: Operation speed of lift motor is down. 0001: Operation wasn't completed after 5 second since the lift motor has operated.
Solution	[RETURN] button => Restore operation Lift inching => Lift inching operation
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Motor for lift [M06] ③ Lift origin point [B200]
Remarks	Use lift inching to get rid of something caught under the lift.

■ Motor voltage is abnormal (435)



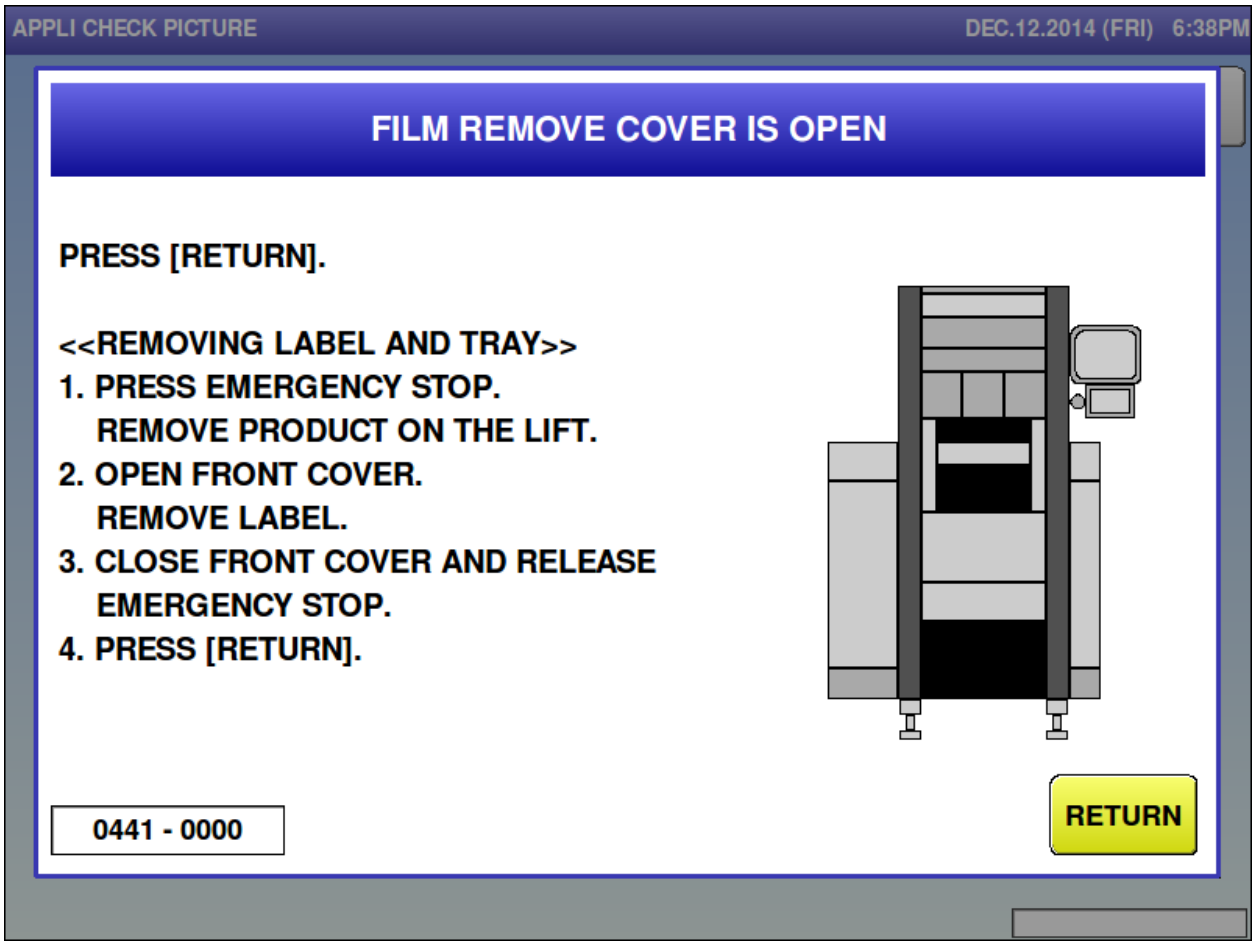
Error content	Power supply voltage error
Detail	Occurs when voltage error is detected in the P-1105 board. Sub-error meanings are as follows: 0001: Undervoltage was detected in P-1105 [A200] 0002: Overvoltage was detected in P-1105[A200] 0011: Undervoltage was detected in P-1105 [A100] 0012: Overvoltage was detected in P-1105 [A100] 0021: Undervoltage was detected in P-1105 [A300] 0022: Overvoltage was detected in P-1105 [A300]
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① Confirm the power supply of input power 200 to 240VAC. ② P-1105 [A100, A200, A300]
Remarks	

■ Emergency stop has been pushed (440)



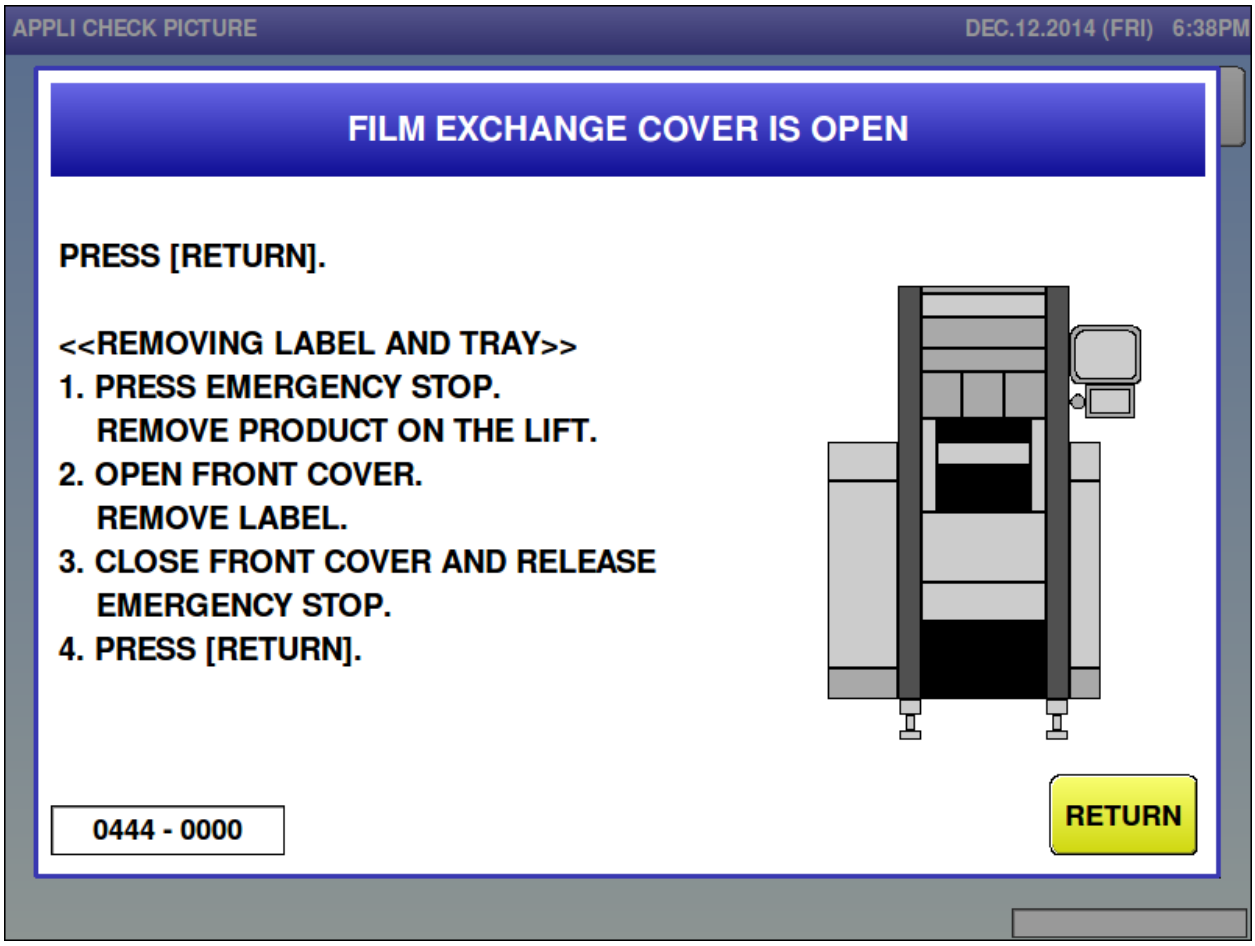
Error content	Emergency stop has been pushed during operation.
Detail	Occurs when the emergency stop switch is pushed while the wrapper is operating.
Solution	Press the [RETURN] button after releasing the emergency stop switch.
Action by user	
Action by service representative	
Related part	
Remarks	

■ Film remove cover is open (441)



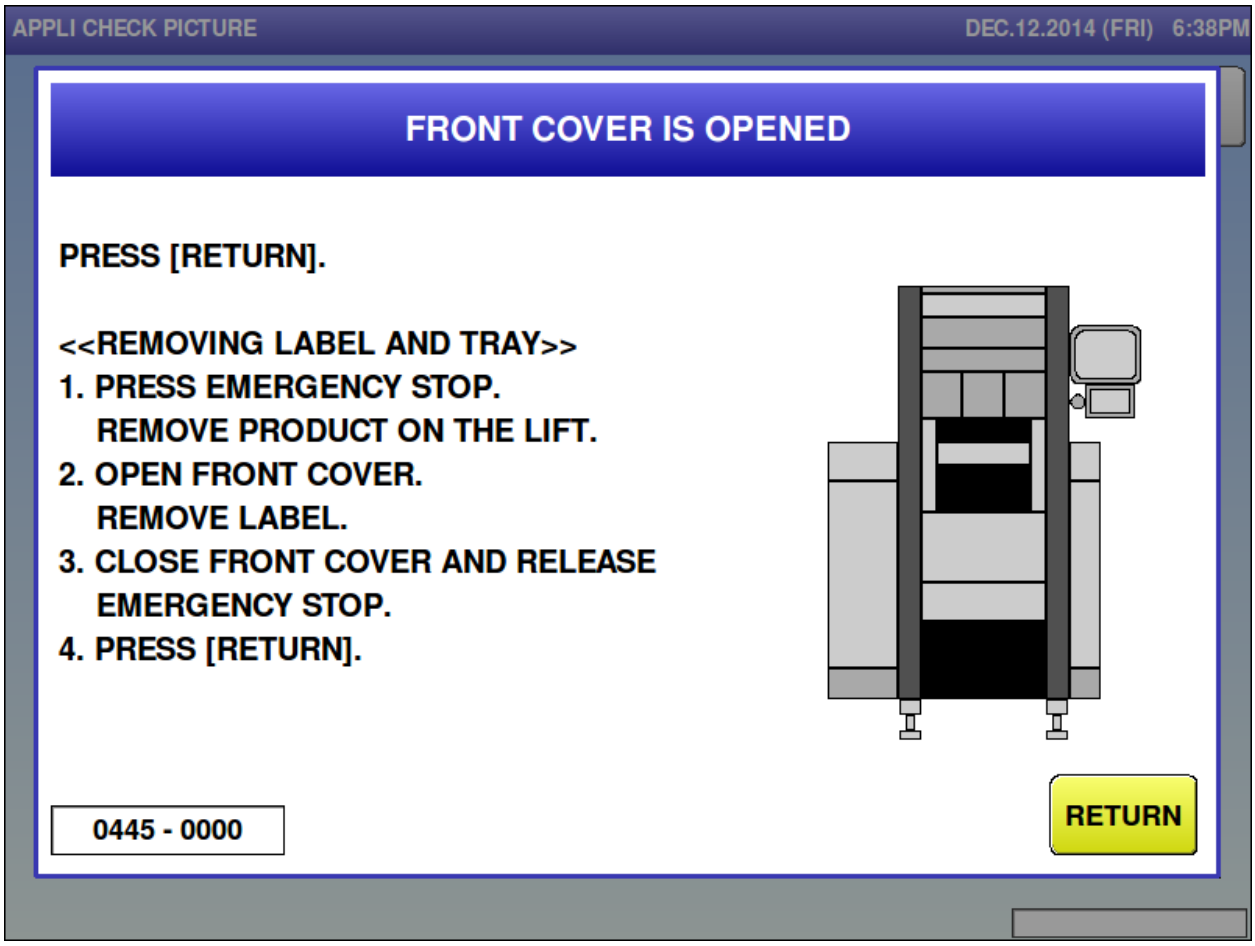
Error content	The right film remove cover was opened during operation.
Detail	Occurs when the right film remove cover is opened while the wrapper is operating.
Solution	Press the [RETURN] button after closing the right film remove cover.
Action by user	
Action by service representative	
Related part	
Remarks	

■ Film exchange cover is open (444)



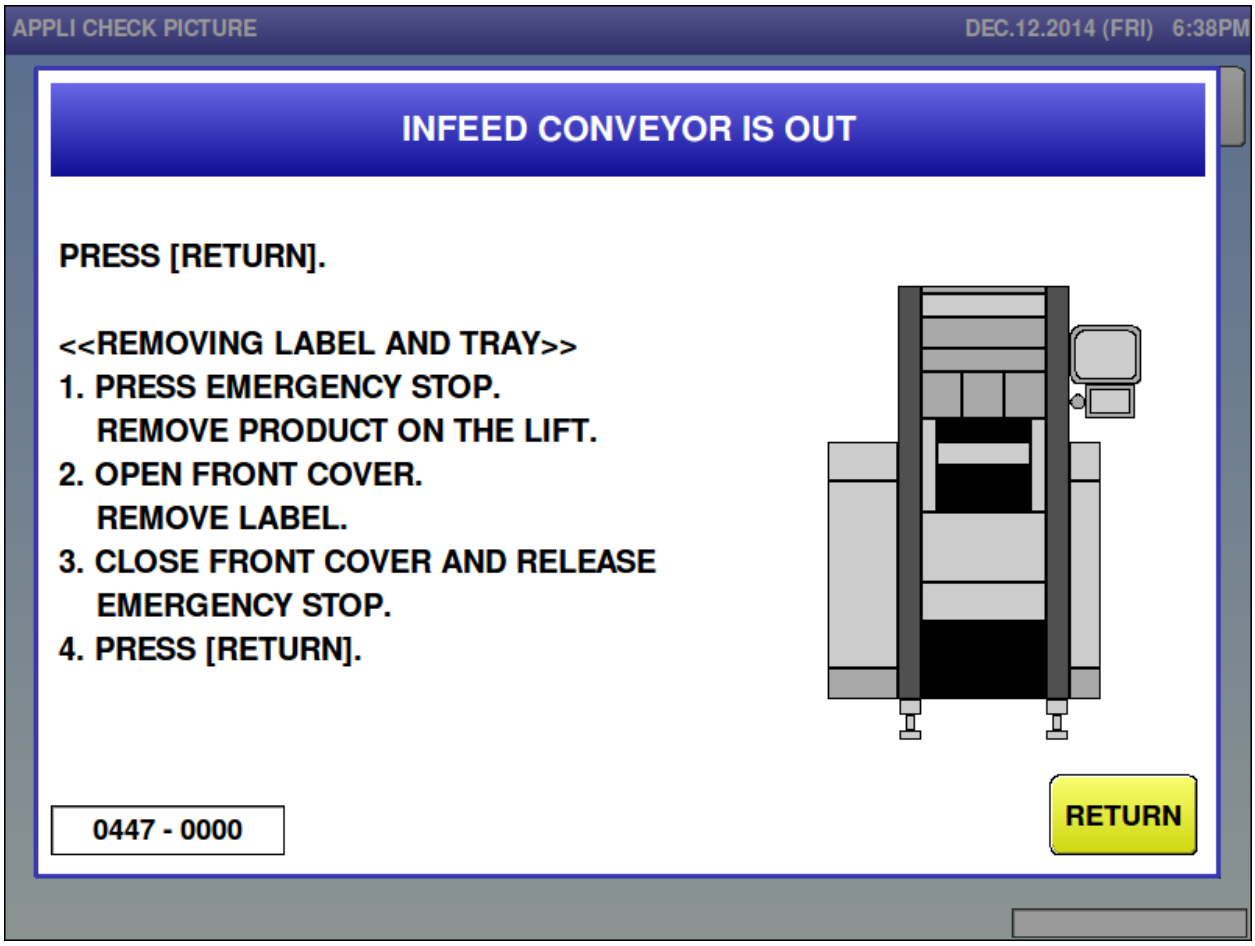
Error content	The left film exchange cover was opened during operation.
Detail	Occurs when the left film exchange cover is opened while the wrapper is operating.
Solution	Press the [RETURN] button after closing the left film exchange cover.
Action by user	
Action by service representative	
Related part	
Remarks	

■ Front cover is opened (445)



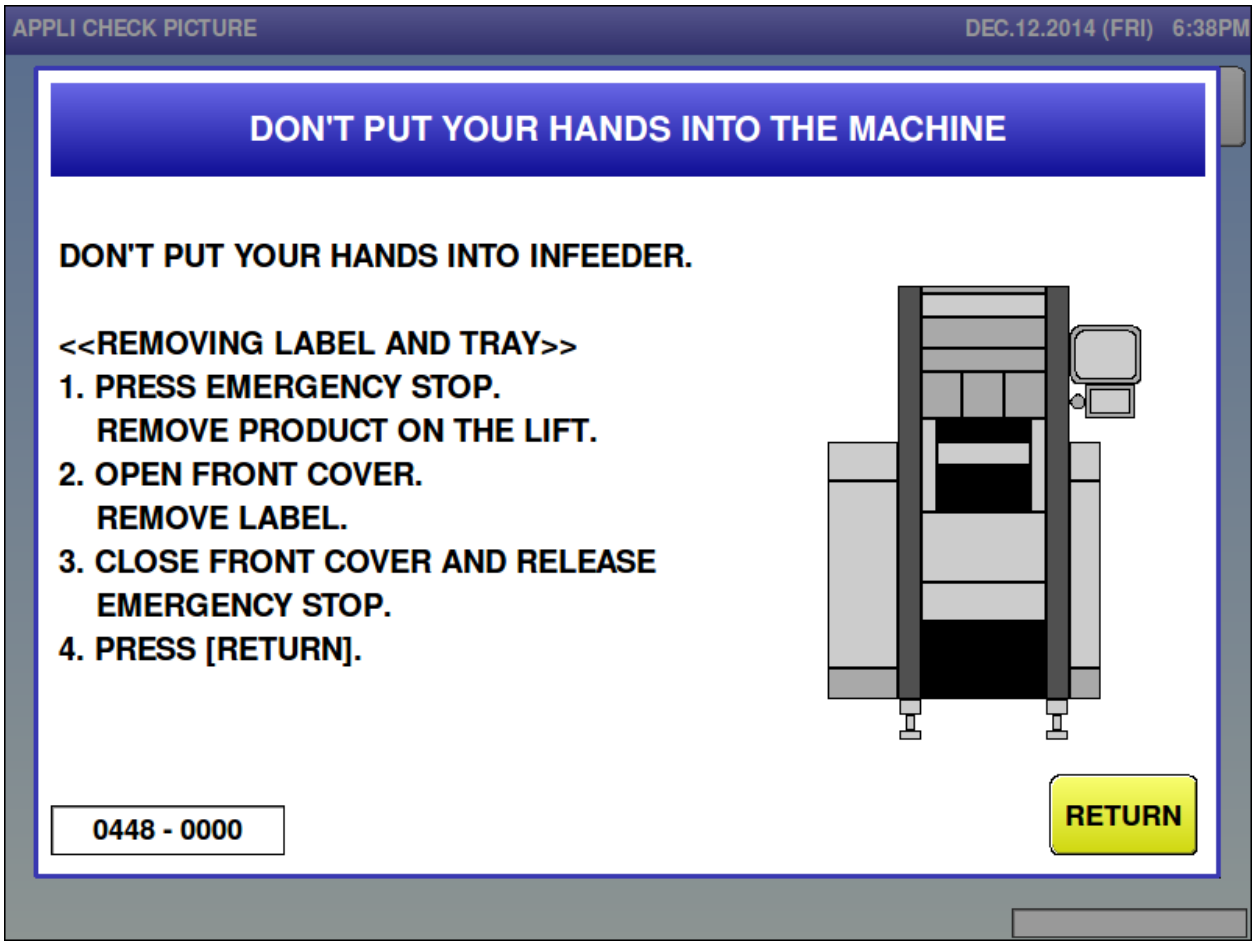
Error content	The front cover was opened during operation.
Detail	Occurs when Front cover is opened while the wrapper is operating.
Solution	Press the [RETURN] button after closing the front cover.
Action by user	
Action by service representative	
Related part	
Remarks	

■ Infeed conveyor is out (447)



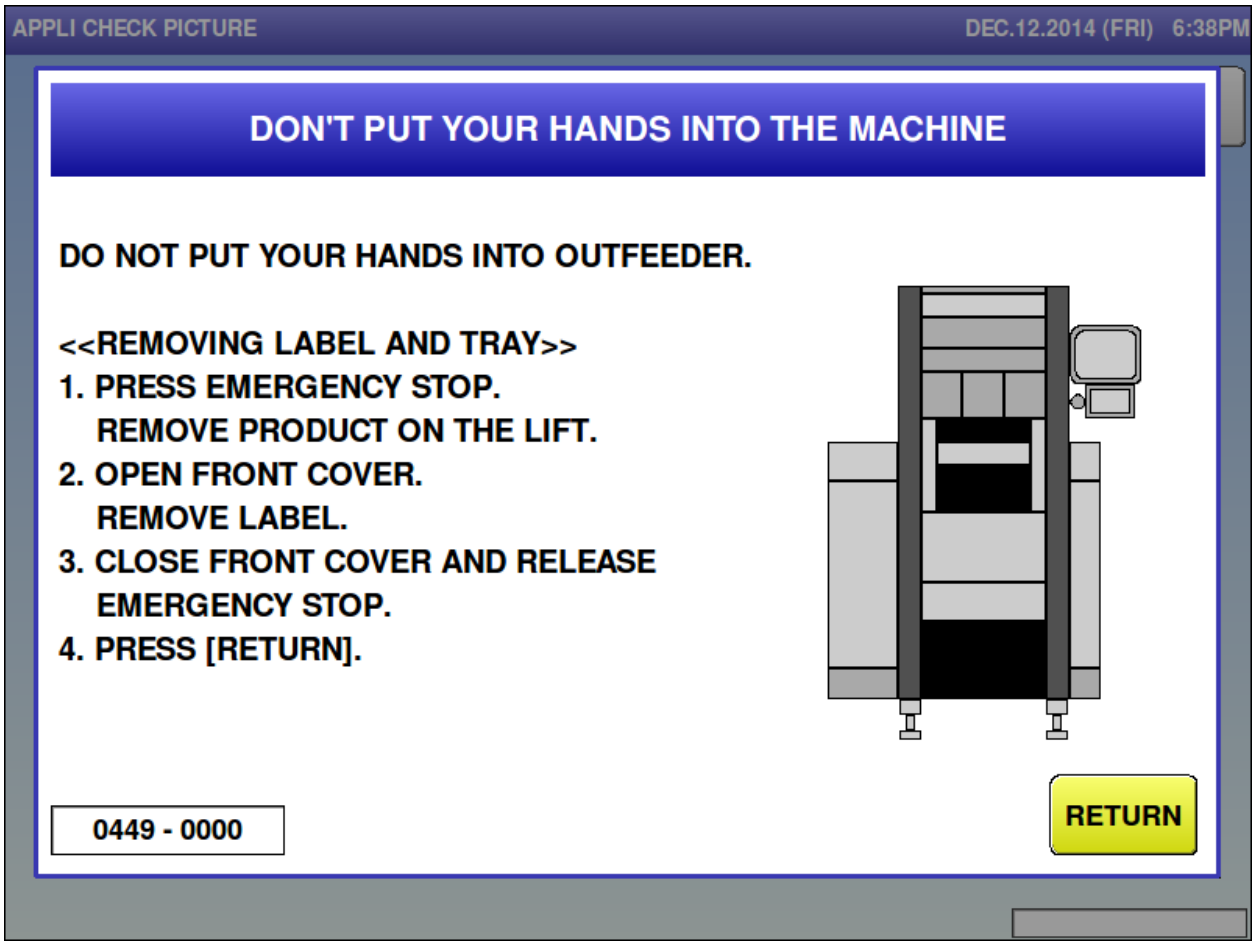
Error content	The infeed conveyor bottom cover was opened during operation.
Detail	Occurs when the infeed conveyor bottom cover is opened while the wrapper is operating
Solution	Press the [RETURN] button after setting the infeed conveyor cover.
Action by user	
Action by service representative	
Related part	
Remarks	

■ Do not put your hands into the machine (448)



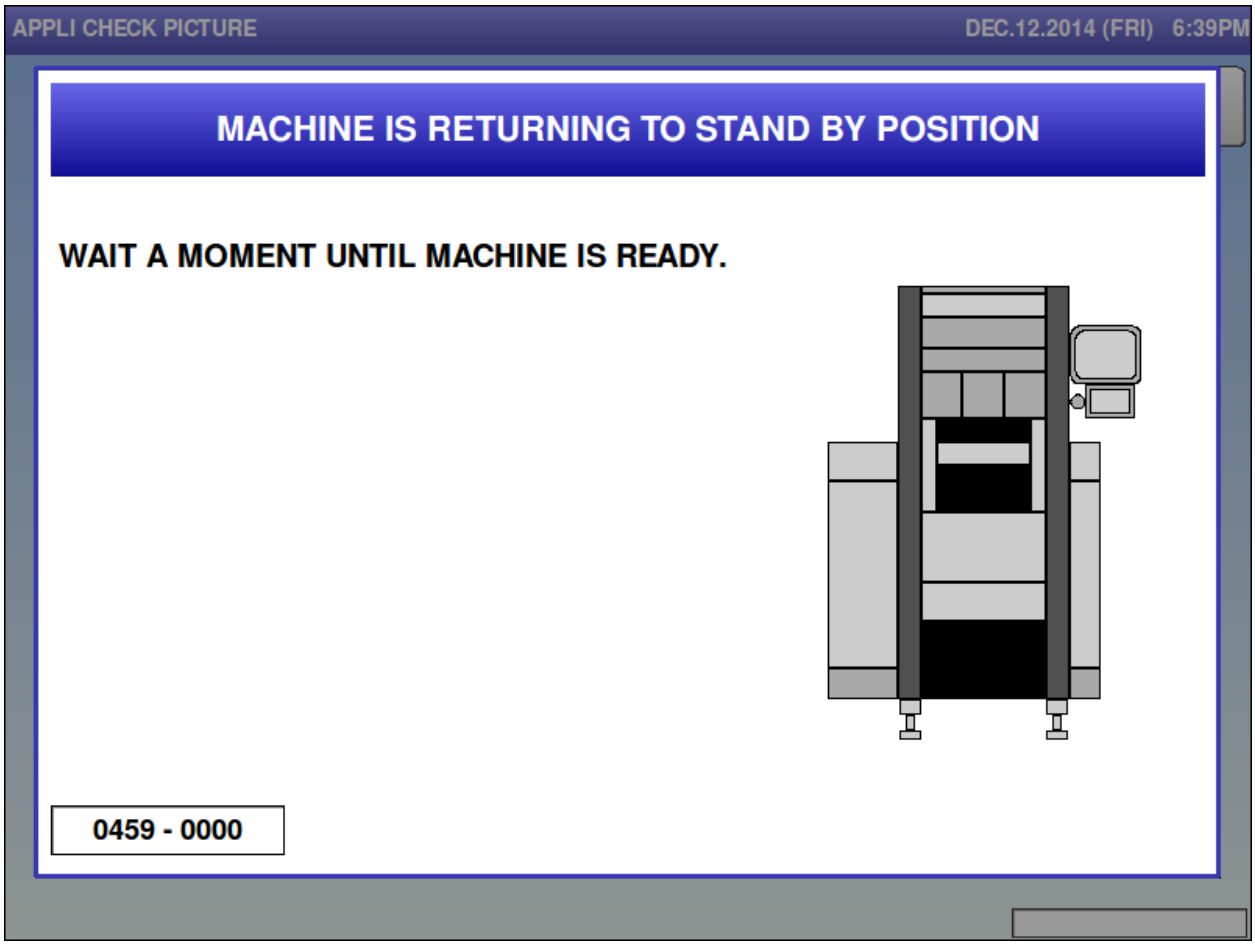
Error content	A hand was put into the wrapper during operation.
Detail	Occurs when a hand or object is detected entering the infeed conveyor while the wrapper is operating. 0000: A hand is detected entering the infeed conveyor in forward side. 0001: A hand is detected entering the infeed conveyor in backward side
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Hand insertion in the infeed conveyor <forward side> (light receiving/emitting) [B216] ③ Hand insertion in the infeed conveyor <backward side> (light receiving/emitting) [B215]
Remarks	

■ Do not put your hands into the machine (449)



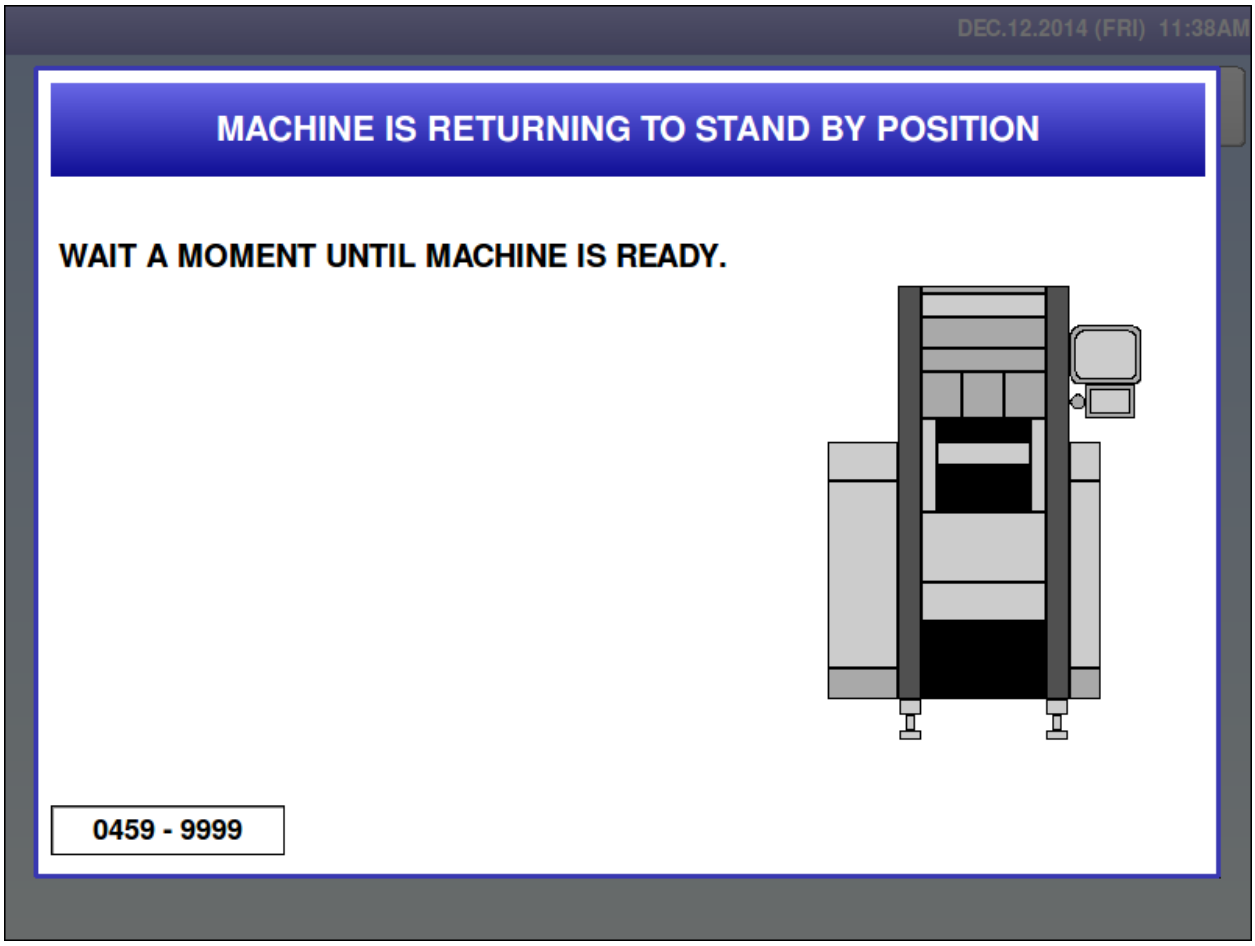
Error content	A hand was put into the wrapper during operation.
Detail	Occurs when a hand or object is detected entering the infeed conveyor while the wrapper is operating. Sub-error meanings are as follows: 0000: Detected by a sensor located over the outfeed heater. 0001: Detected by a sensor located under the cover.
Solution	Press the [RETURN] button after making sure a hand or object is not placed.
Action by user	
Action by service representative	
Related part	① P-1105 [A100] ② Hand insertion in the outfeeder (light receiving/emitting) [B106]: Sub-error is 0000 ③ Hand insertion in the front cover (light receiving/emitting) [B107]: Sub-error is 0001
Remarks	

■ Machine is returning to standby position (459－0000)



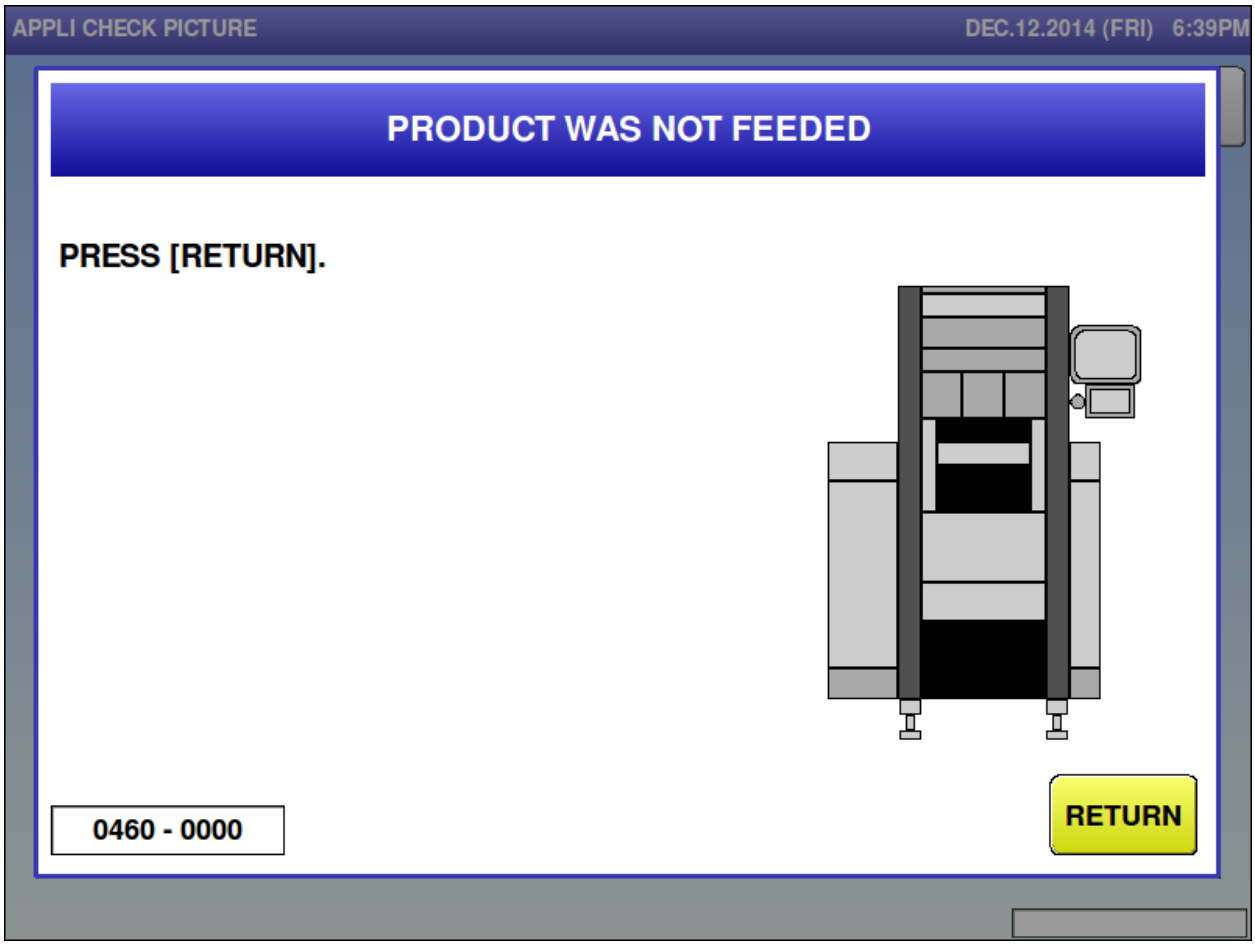
Error content	Machine is returning to standby position
Detail	Message indicates that the wrapper is during the returning operation.
Solution	
Action by user	
Action by service representative	
Related part	
Remarks	

■ Machine is returning to standby position (459－9999)



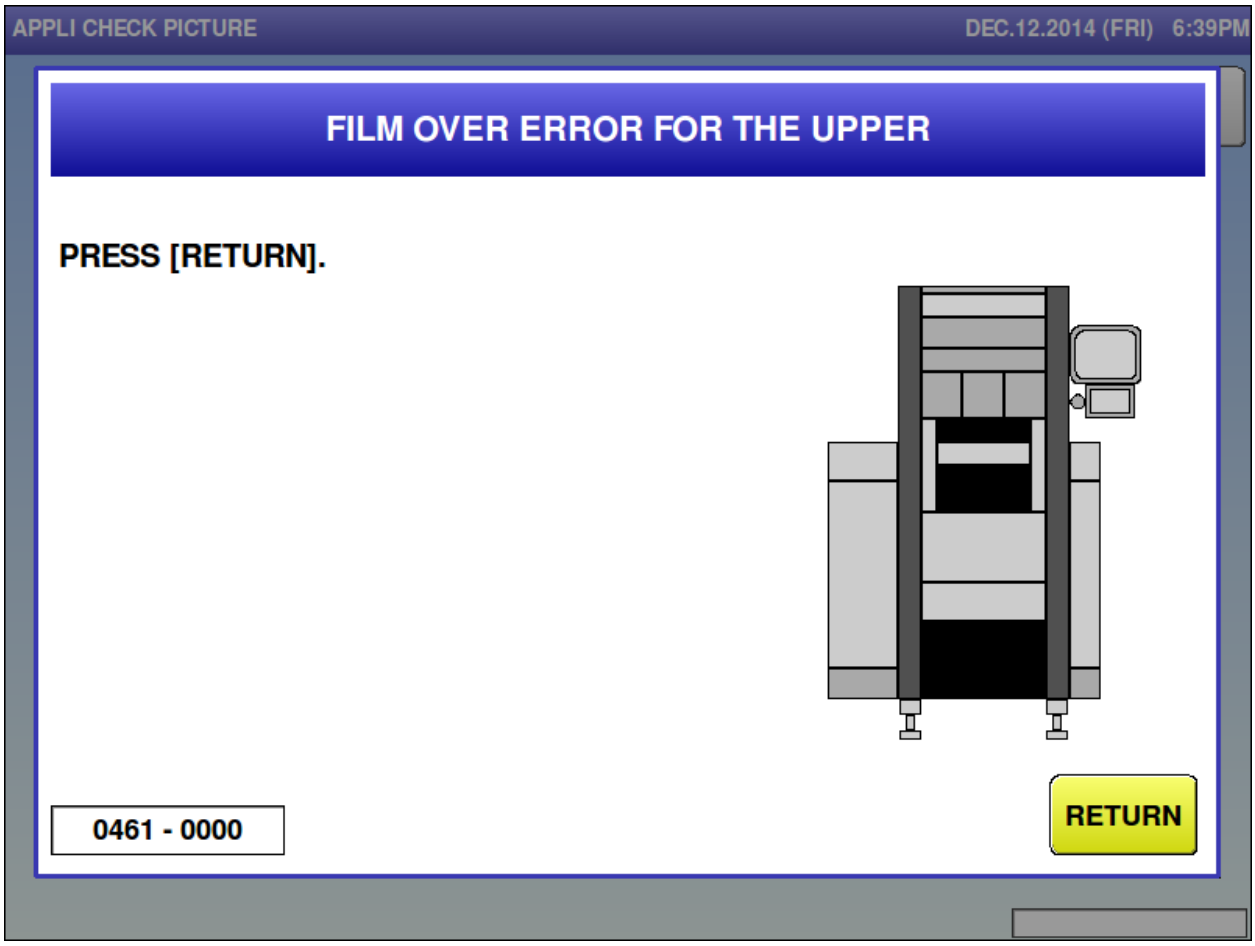
Error content	Machine is returning to standby position
Detail	Message indicates that the wrapper is during the returning operation.
Solution	After this message, the “459－0000 “ error screen is displayed.
Action by user	
Action by service representative	
Related part	
Remarks	

■ Product was not feeded (460)



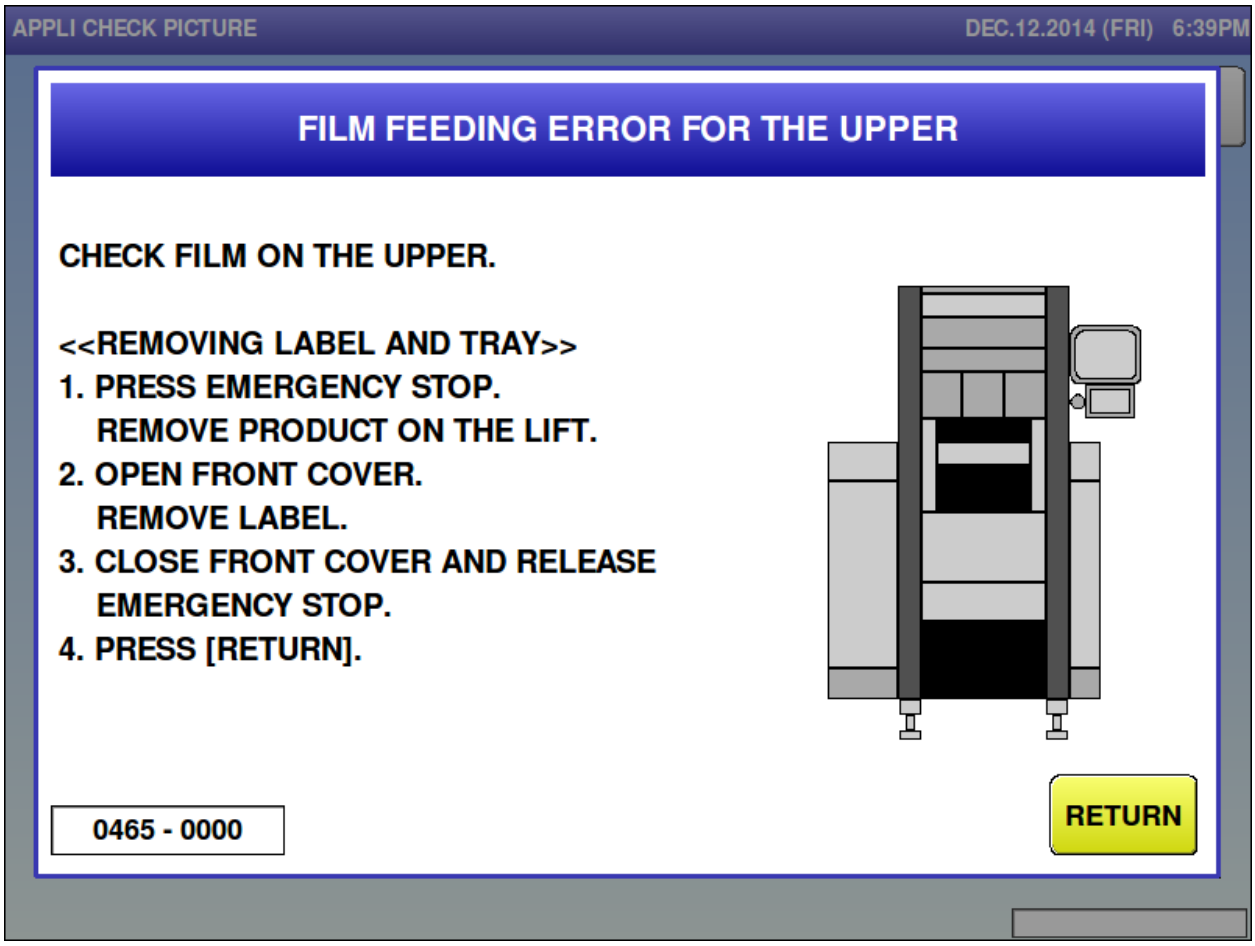
Error content	Product was not feeded.
Detail	The wrapper failed to detect a product on the lift during one cycle operation. In addition, the product on the lift failed to be detected when the lift starts pushing up the product.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	
Remarks	

■ Film over error for the upper (461)



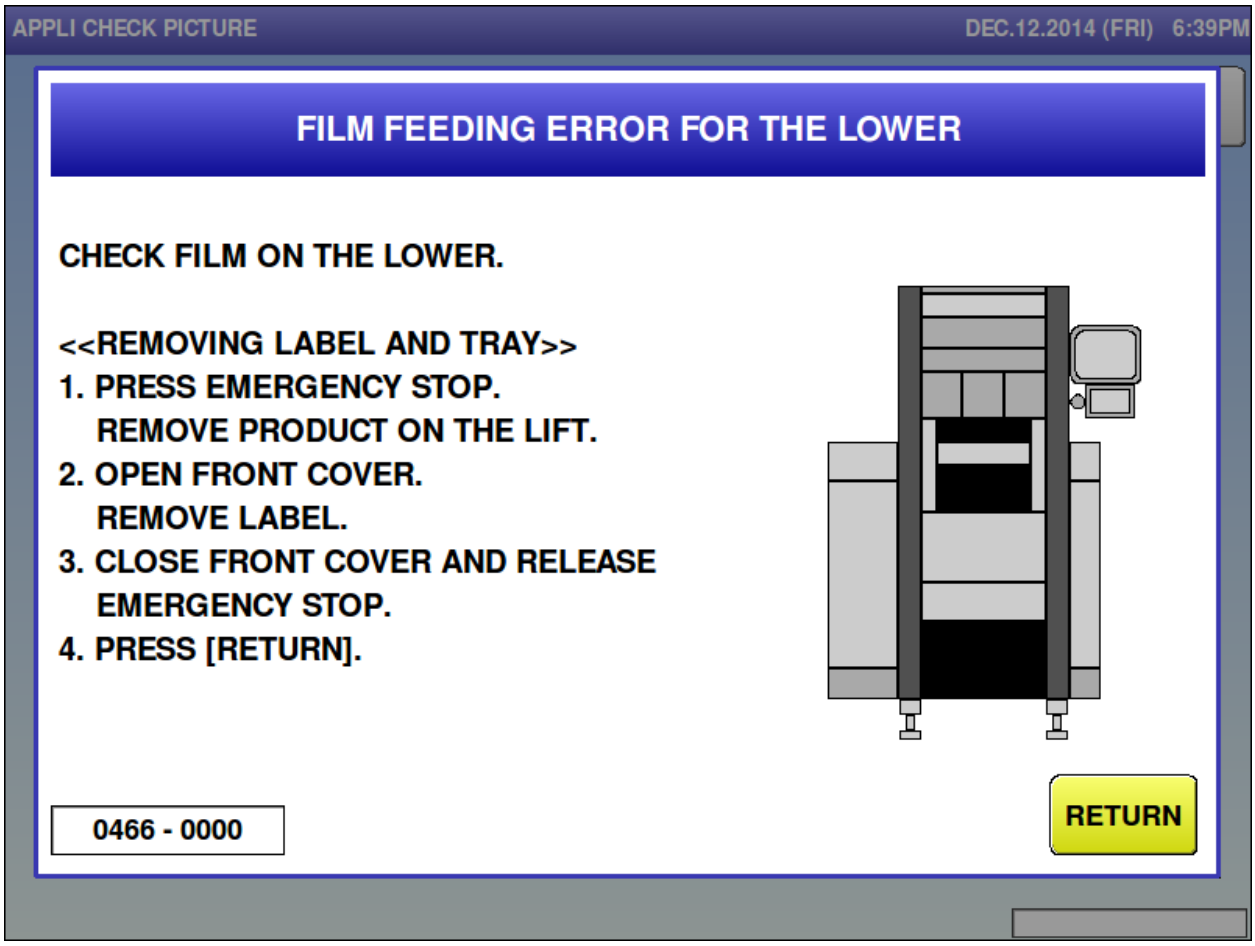
Error content	Film over error for the upper
Detail	When upper film was sending, the film detection board for film over was fallen down. Sub-error meanings are as follows: 0001: During the film centering 0002: Performing unloaded feeding 0003: During the film feeding
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	
Remarks	Remove film after recovery operation. <Points to be checked> ① P-1105 [A200] ② Before the film over detection [B209] ③ After the film over detection [B211]

■ Film feeding error for the upper (465)



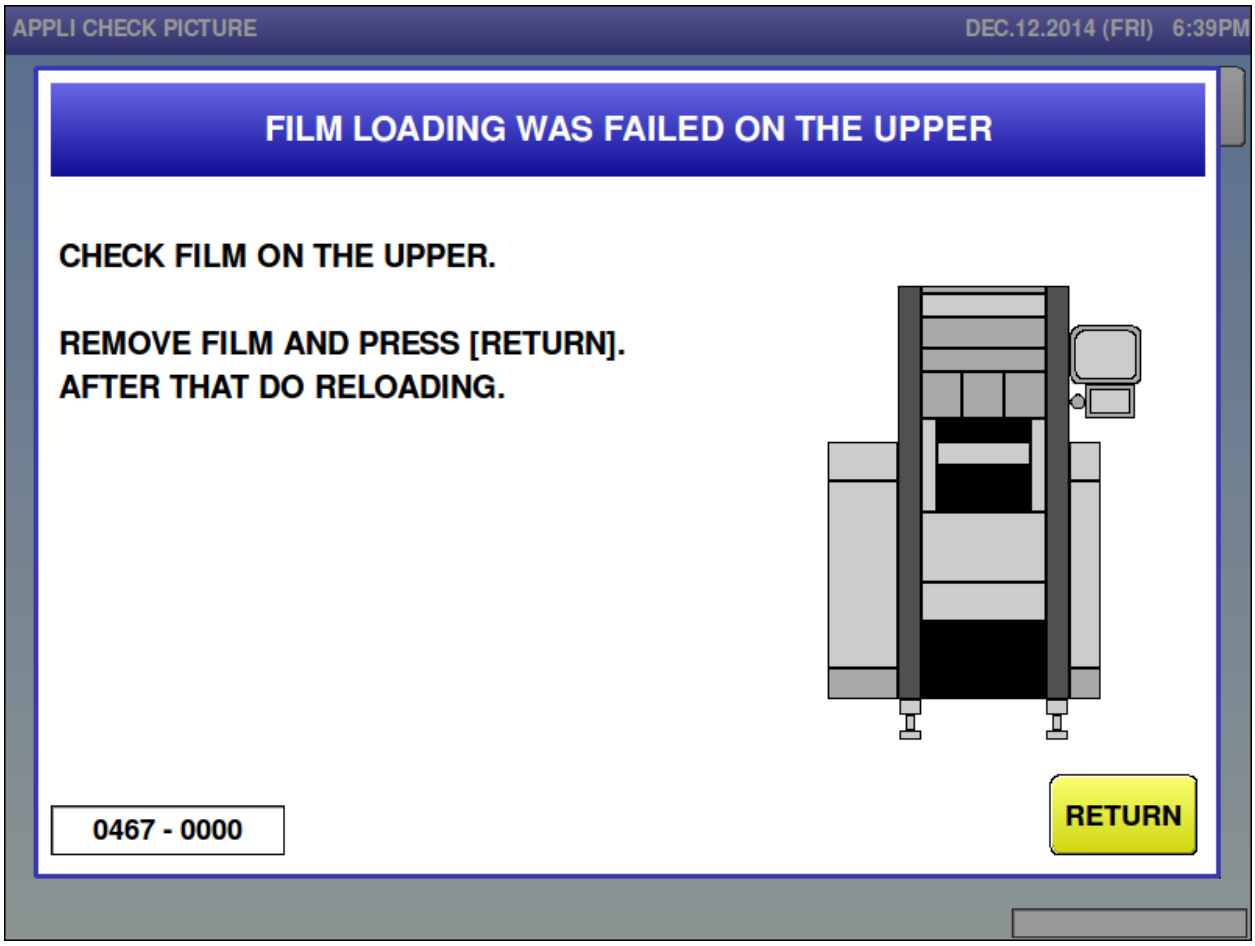
Error content	Upper film was not supplied.
Detail	upper film was sent, but the upper film detection board did not fall down. Sub-error meanings are as follows: 0XXX: Shortly before the operation, no film was changed over. 1XXX: Shortly before the operation, film was changed over. XXX indicates the external diameter of roll [mm] when an error detected. (If an error occurs by the film feeding for the first time after the film loading or the power is turned on, external diameter of roll becomes 0)
Solution	Press the [RETURN] button after checking the upper film.
Action by user	
Action by service representative	
Related part	
Remarks	The error will not be displayed by selection [No] in film error machine settings.

■ Film feeding error for the lower (466)



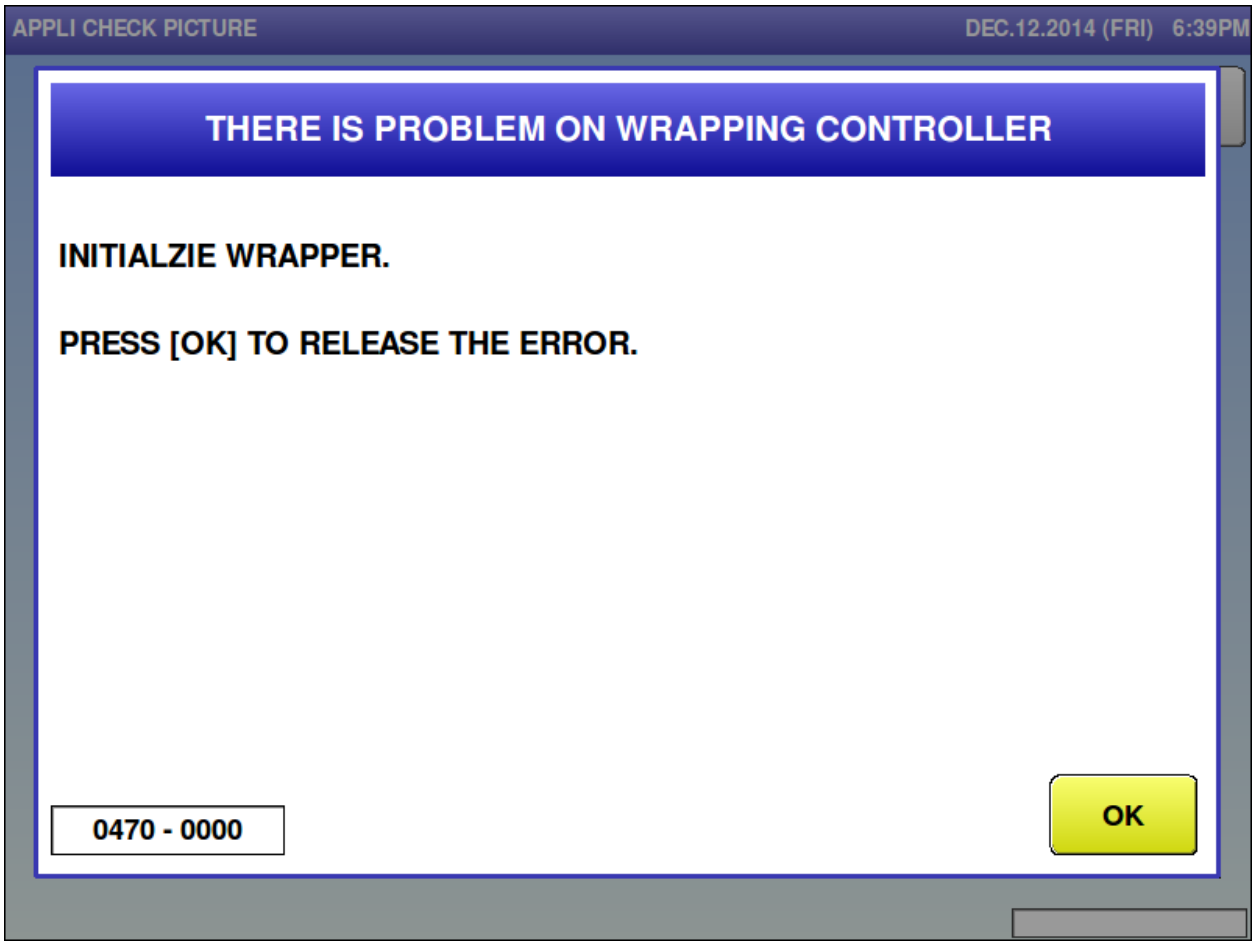
Error content	Lower film was not supplied.
Detail	Lower film was sent, but the lower film detection board did not fall down. Sub-error meanings are as follows: 0XXX: Shortly before the operation, no film was changed over. 1XXX: Shortly before the operation, film was changed over. XXX indicates the external diameter of roll [mm] when an error detected. (If an error occurs by the film feeding for the first time after the film loading or the power is turned on, external diameter of roll becomes 0)
Solution	Press the [RETURN] button after checking the lower film.
Action by user	
Action by service representative	
Related part	
Remarks	The error will not be displayed by selection [No] in film error machine settings.

■ Film loading was failed on the upper (467)



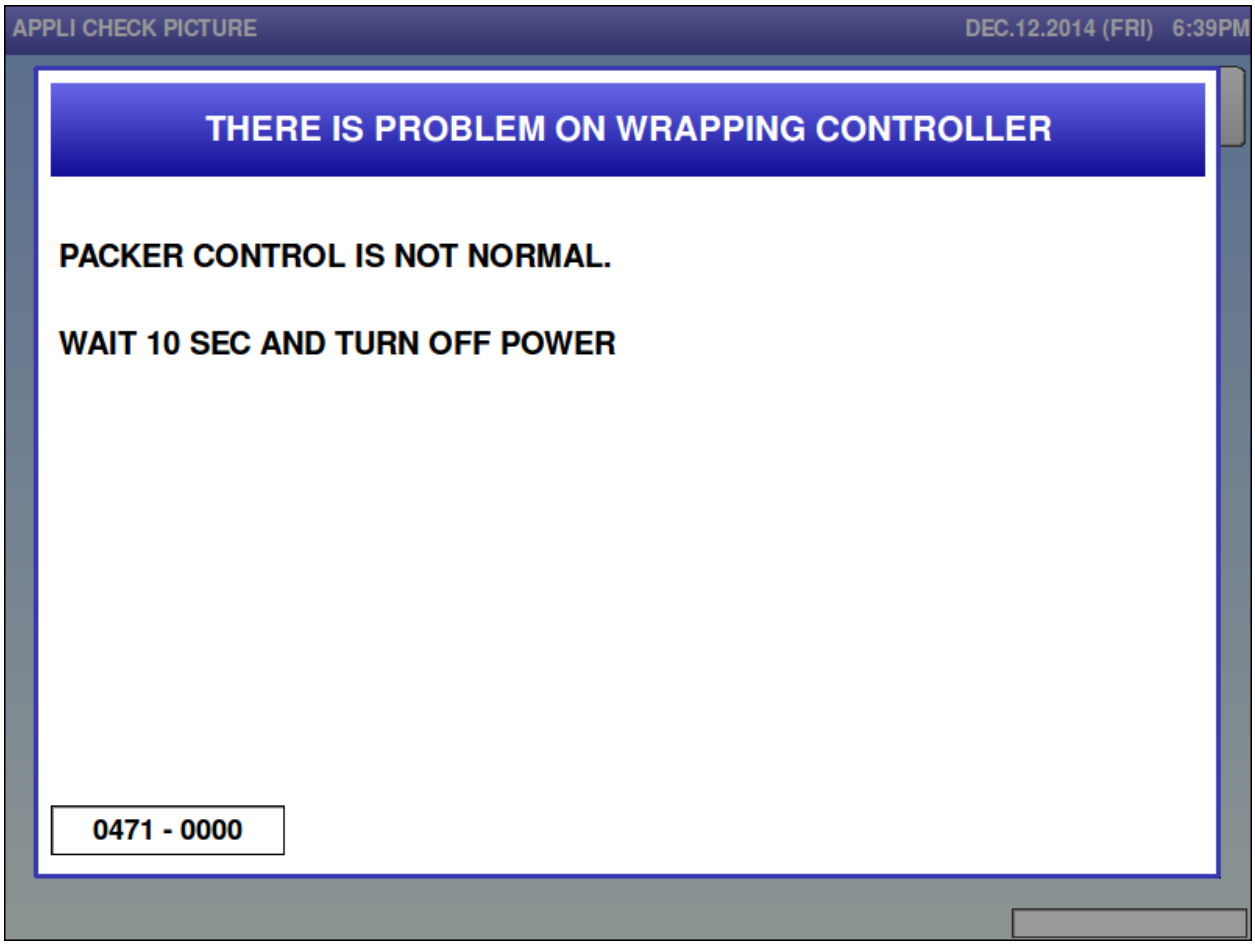
Error content	Film loading was failed on the upper
Detail	Film transport could not compete successfully in film loading operation because send film detection board did not fall down in right order. Sub-error meanings are as follows: 0000: upper film loading failed 0001: Lower film loading failed
Solution	Press the [RETURN] button after removing the remaining film on the side blinking blue.
Action by user	
Action by service representative	
Related part	
Remarks	The error will not be displayed by selection [No] in film error machine settings.

■ There is problem on wrapping controller (470)



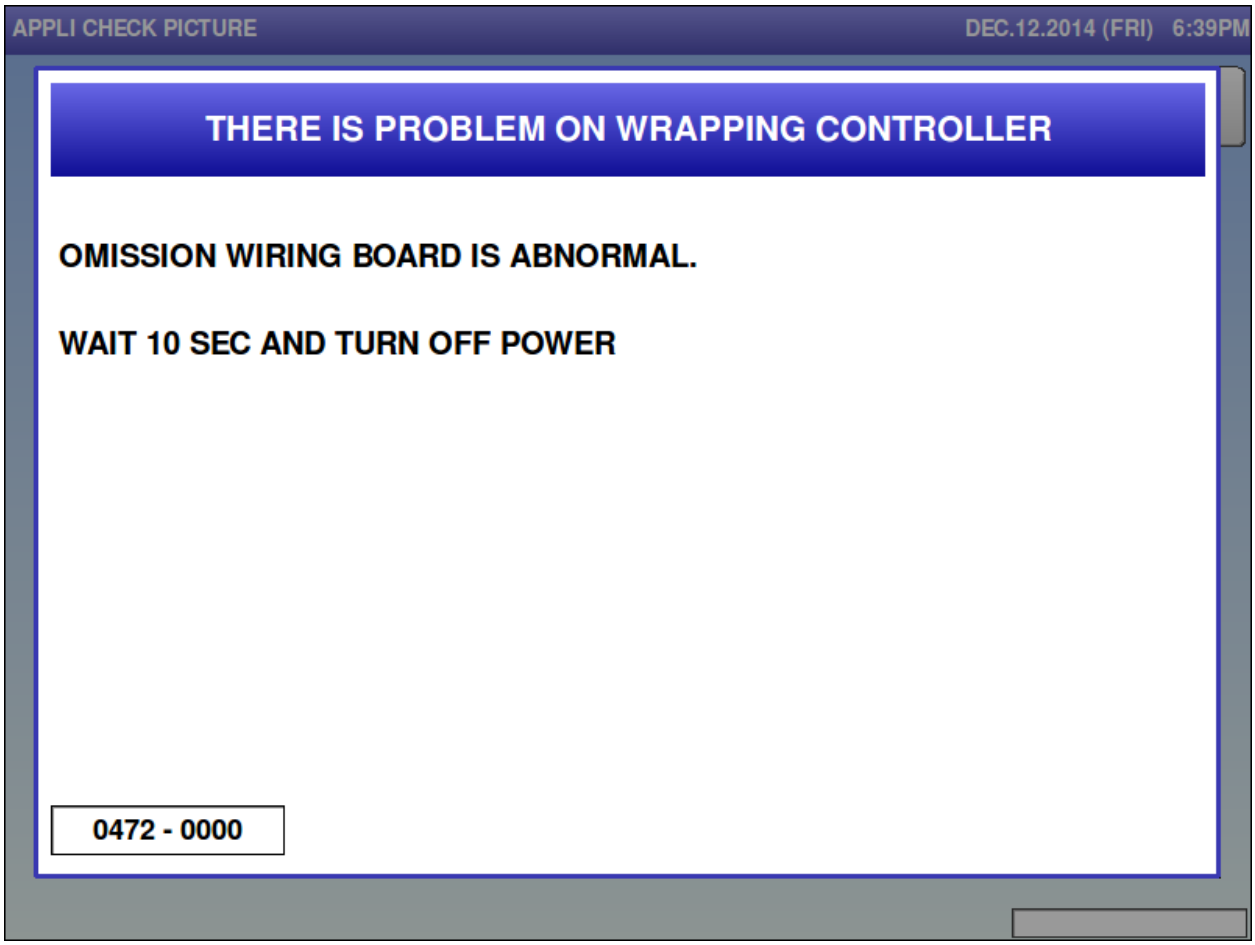
Error content	Wrapper is not initialized.
Detail	Wrapper E2ROM is not initialized (Stored E2ROM checksum error).
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	Initialize wrapper in test mode wrapper settings after cancelling the error.

■ There is problem on wrapping controller (471)



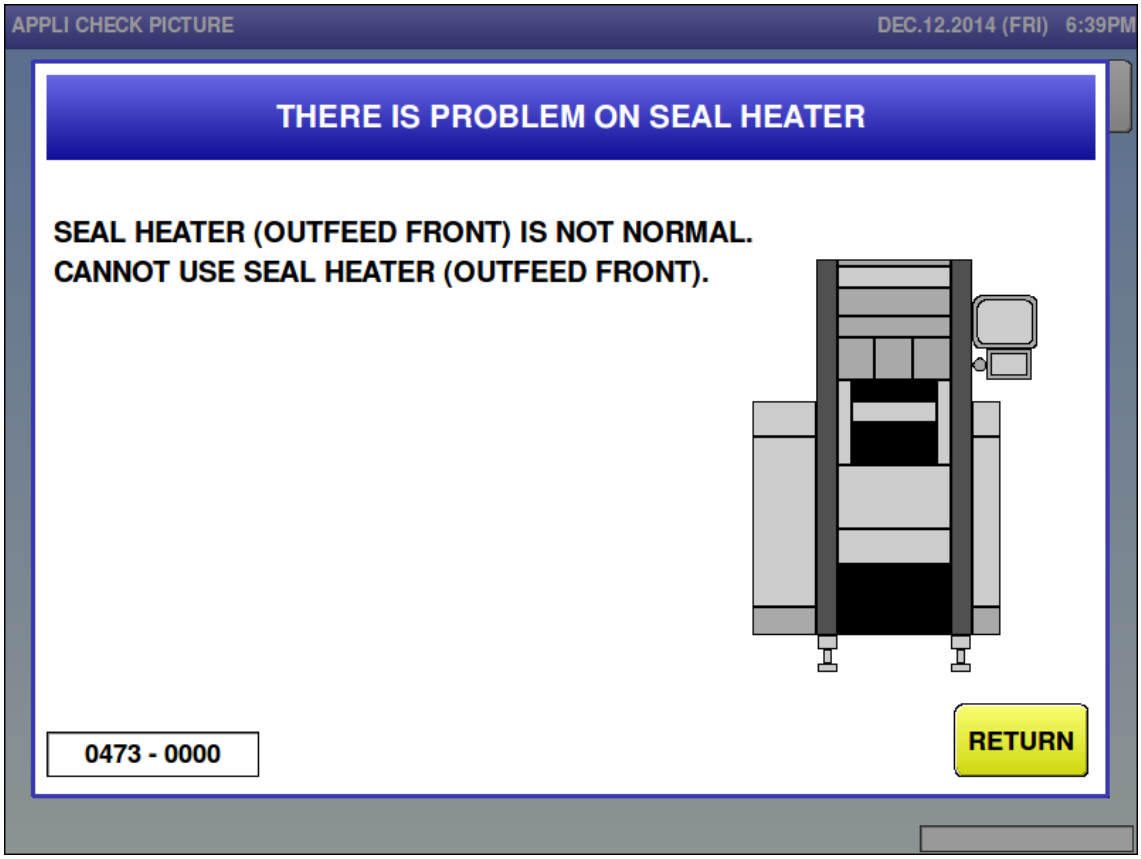
Error content	Wrapper control board is abnormal
Detail	An error occurred in the wrapper control board. Sub-error meanings are as follows: 0003: E2ROM writing error 0088: IC for general-purpose communication error 0999: High speed, external CPU reset interrupt
Solution	
Action by user	
Action by service representative	
Related part	P-1105 [A100, A200, A300]
Remarks	

■ There is problem on wrapping controller (472)



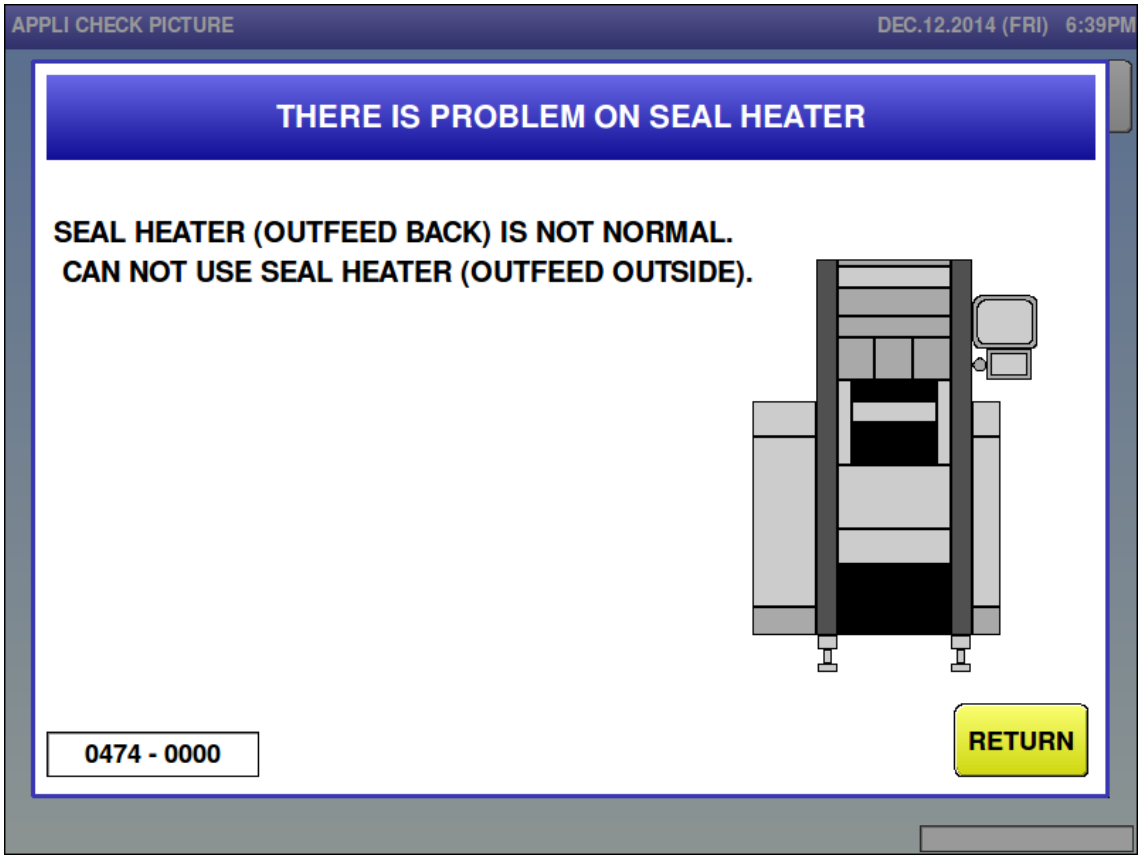
Error content	Wrapper wiring board error
Detail	A communication error occurred between parent (wrapper control board: P-1105: A200) and child (P-1105: A100, A300). Sub-error meanings are as follows: 0000: A communication error between P-1105 [A100] and P-1105 [A300] 0001: A communication error with P-1105 [A300] 0002: A communication error with P-1105 [A100]
Solution	Restore power
Action by user	
Action by service representative	
Related part	① P-1105 [A100], [A200], [A300] ② 23-pin and 24-pin in XJ7 of P1105 [A100] must be short-circuited. ③ 21-pin and 22-pin in XJ7 of P1105 [A200] must be short-circuited. ④ 21-pin and 22-pin, and 23-pin and 24-pin in XJ7 of P1105 [A100] must be short-circuited.
Remarks	

■ There is problem on seal heater (473)



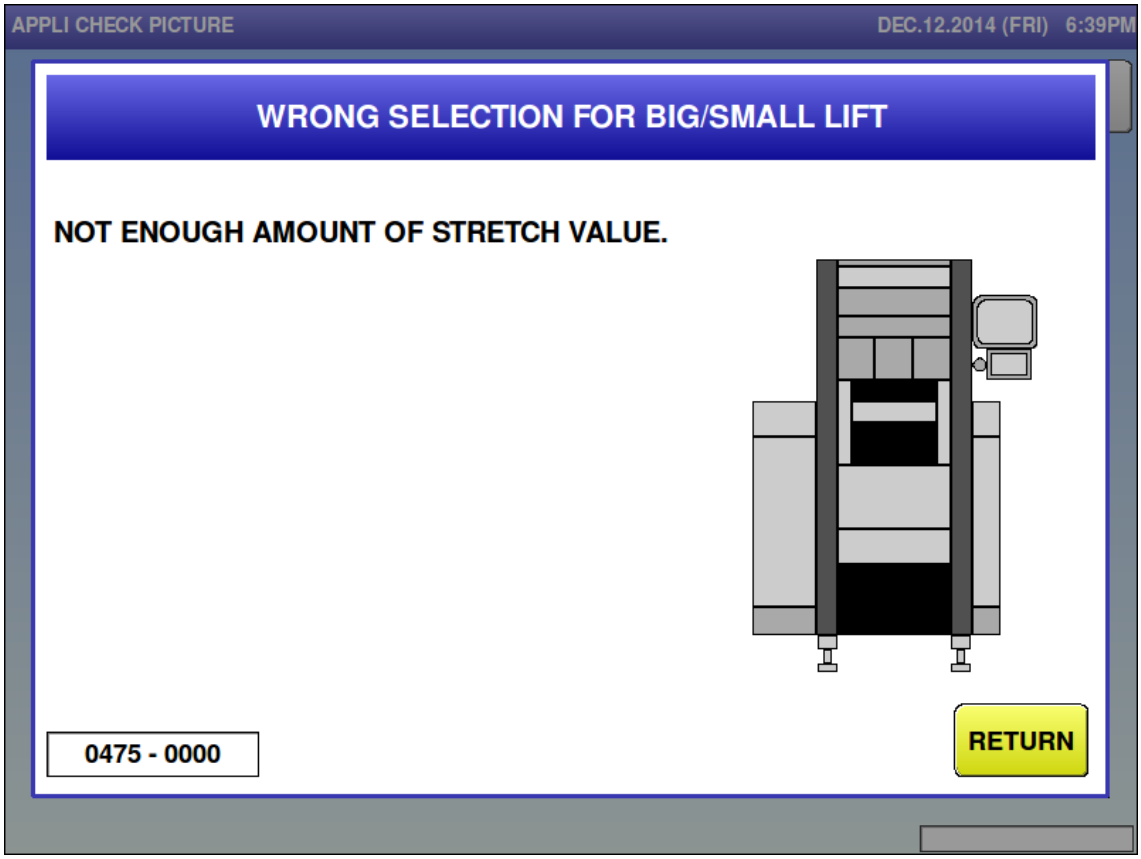
Error content	Front outfeed heater error
Detail	An error occurred in either the front heater or the thermostat monitoring the front heater temperature. Sub-error meanings are as follows: 0000: The heater temperature does not rise while heating (Thermostat value does not change) 0001: Thermostat error (Disconnection or short circuit)
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Outfeed front heater [E70] ③ Fuse for outfeed heater [F106, F107] ④ Thermistor for outfeed front heater [R1] ⑤ SSR for outfeed front heater [K200]
Remarks	The heater is switched OFF when this error occurs.

■ There is problem on seal heater (474)



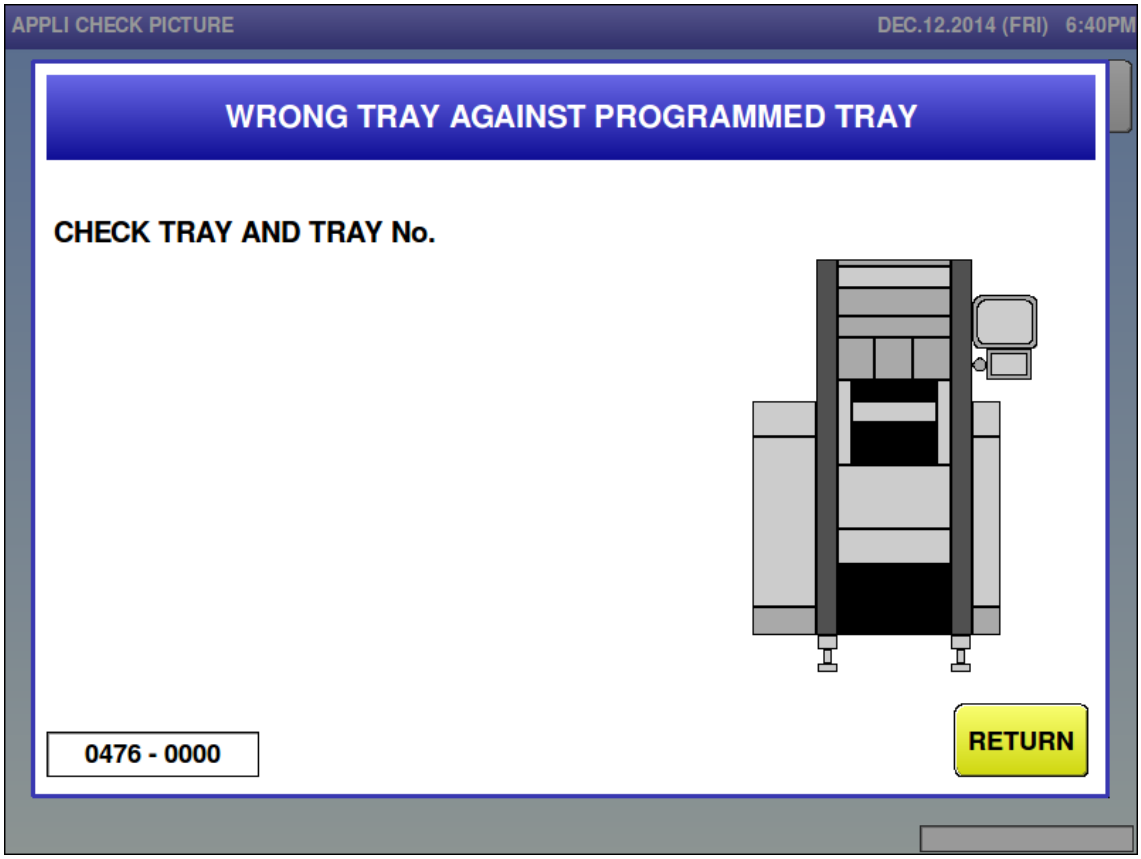
Error content	Back outfeed heater error
Detail	An error occurred in either the rear heater or the thermostat monitoring the rear heater temperature Sub-error meanings are as follows: 0000: The heater temperature does not rise while heating (Thermostat value does not change). 0001: Thermostat error (Disconnection or short circuit).
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Outfeed front heater [E71] ③ Fuse for outfeed heater [F106, F107] ④ Thermistor for outfeed front heater [R2] ⑤ SSR for outfeed front heater [K201]
Remarks	The heater is switched OFF when this error occurs.

■ Wrong selection for big/small lift (475)



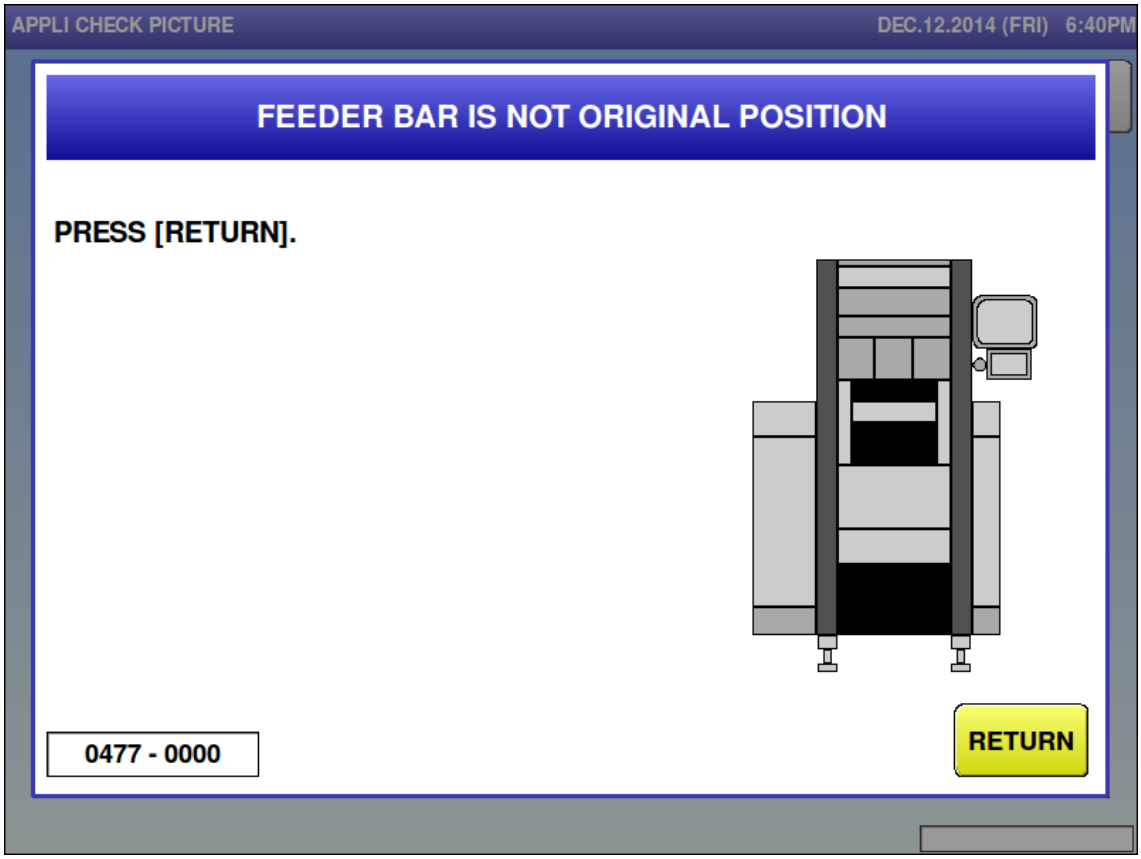
Error content	Wrong selection for big/small lift.
Detail	The rear feeder is in a position where it may come in contact with the lift when it is pushed up. Sub-error meanings are as follows: 0000 or 001*: Error occurs when small lift is selected (Not enough stretch). 0001 or 002*: Error occurs when large lift is selected (Lift selection is unsuitable or not enough stretch). * either 0,1, or 2
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	
Remarks	Set the appropriate values for the lift selection and the stretch (fine adjustment) after cancelling the error.

■ Wrong tray against programmed tray (476)



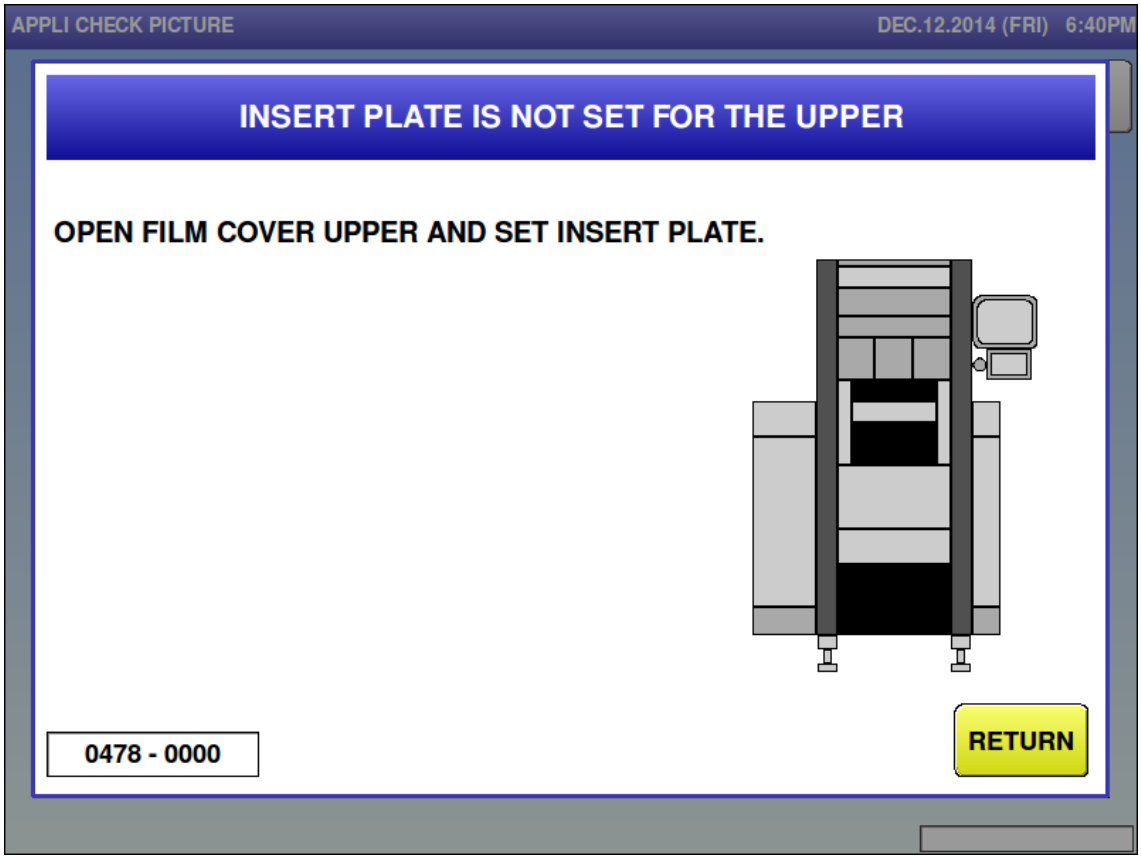
Error content	Tray settings and feed tray are different.
Detail	The wrapper detected the narrow-side dimensions of the feed tray are more than 50mm larger than the selected tray The narrow-side dimensions detected by the wrapper are shown in the sub-error.
Solution	[RETURN] button
Action by user	Clean up the sensor that detects products on the lift.
Action by service representative	Adjust the sensitivity of the sensor that detects products on the lift.
Related part	① P-1105 [A200] ② Detection of products on the lift [B206] ③ Feeder motor
Remarks	

■ Feeder bar is not original position (477)



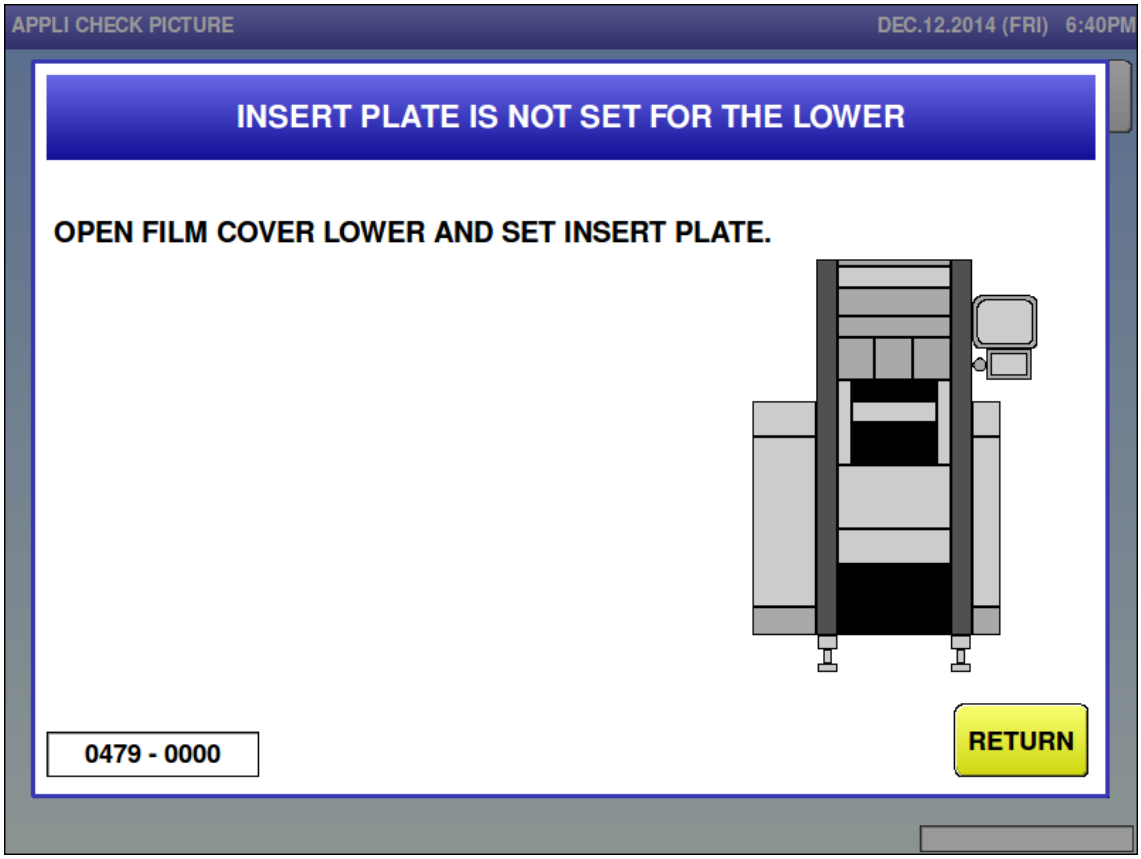
Error content	Feeder bar is not original position
Detail	The feeder bar was not in its original position when the wrapper started feeder operations (excluding return operation).
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Origin point of feeder bar [B204]
Remarks	

■ Insert plate is not set for the upper (478)



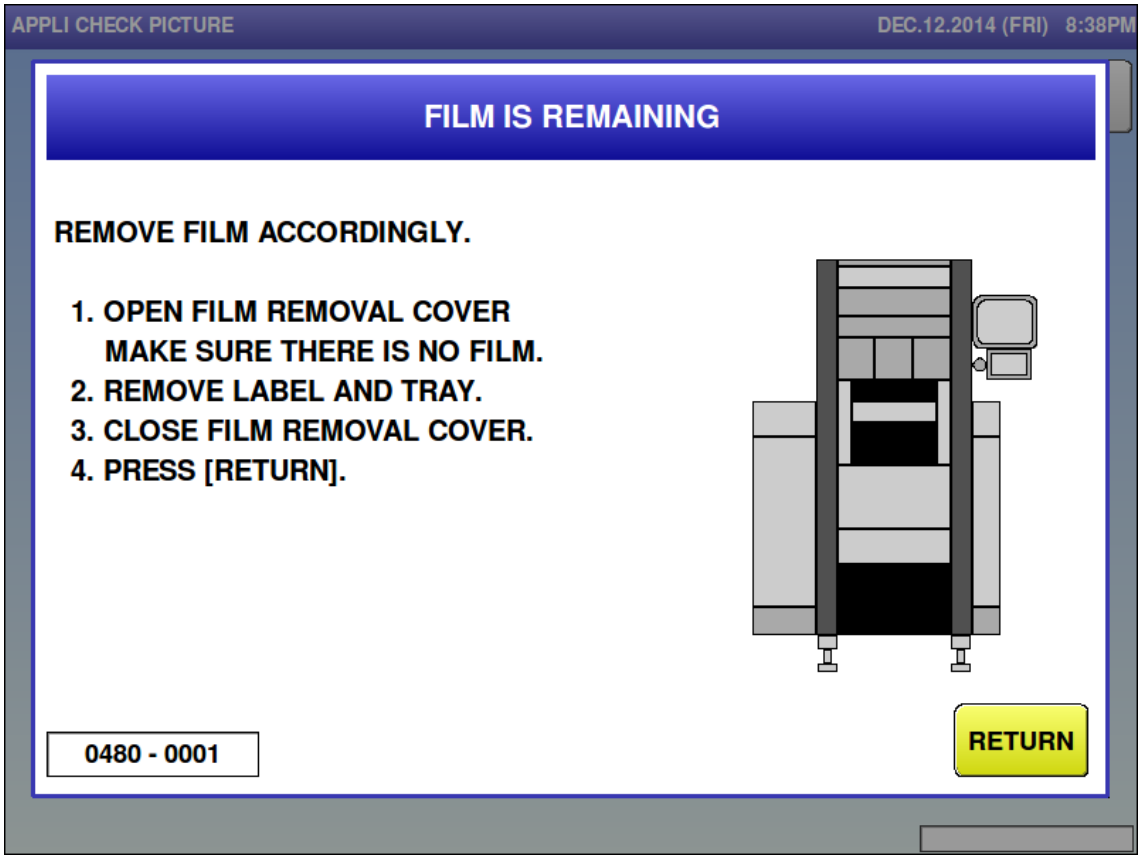
Error content	Insert plate is not set for the upper
Detail	Film exchange cover is closed, but upper film insert open/close is open.
Solution	Press the [RETURN] button after setting the insert plate.
Action by user	
Action by service representative	
Related part	<If the error persists even after the insert open/close is closed> ① P-1105 [A300] ② Upper film insert open/close [B307]
Remarks	

■ Insert plate is not set for the lower (479)



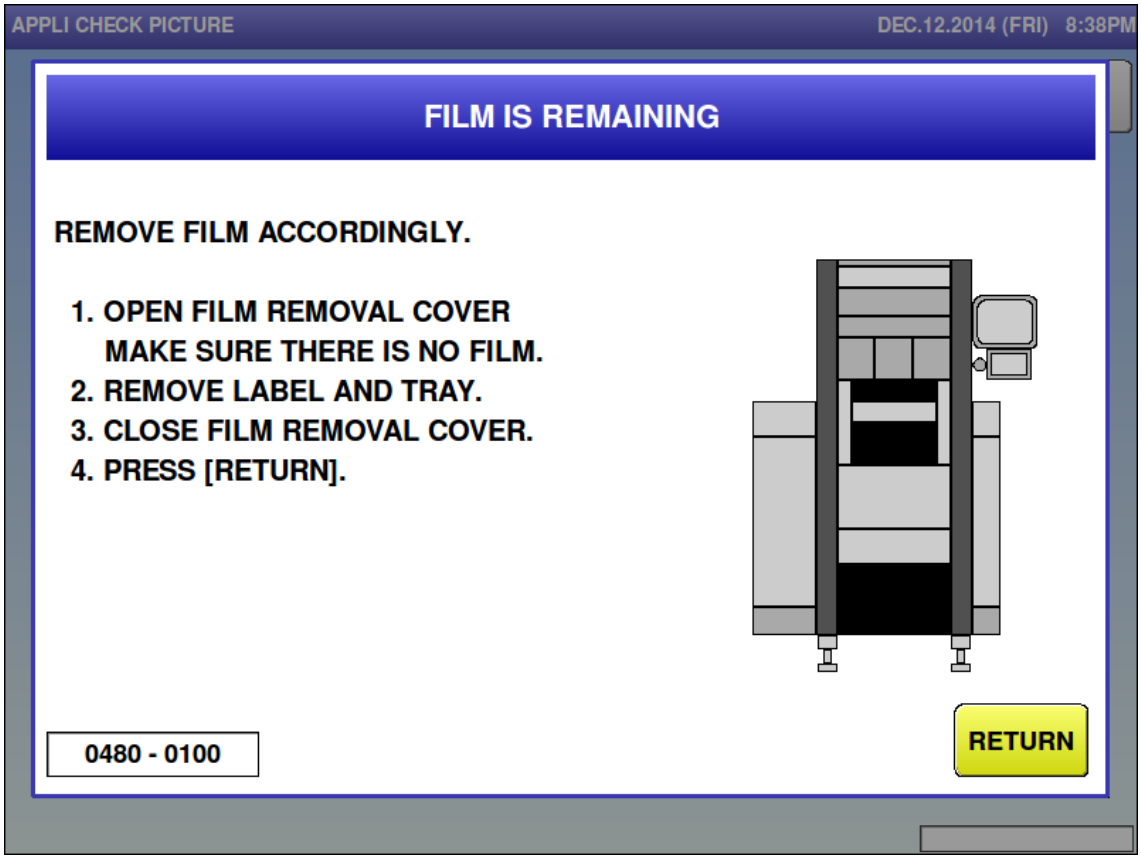
Error content	Insert plate is not set for the lower.
Detail	Film exchange cover is closed, but lower film insert open/close is open.
Solution	Press the [RETURN] button after setting the insert plate.
Action by user	
Action by service representative	
Related part	<If the error occurs even after the insert open/close is closed> ① P-1105 [A300] ② Lower film insert open/close [B305]
Remarks	

■ Film is remaining (480－0001)



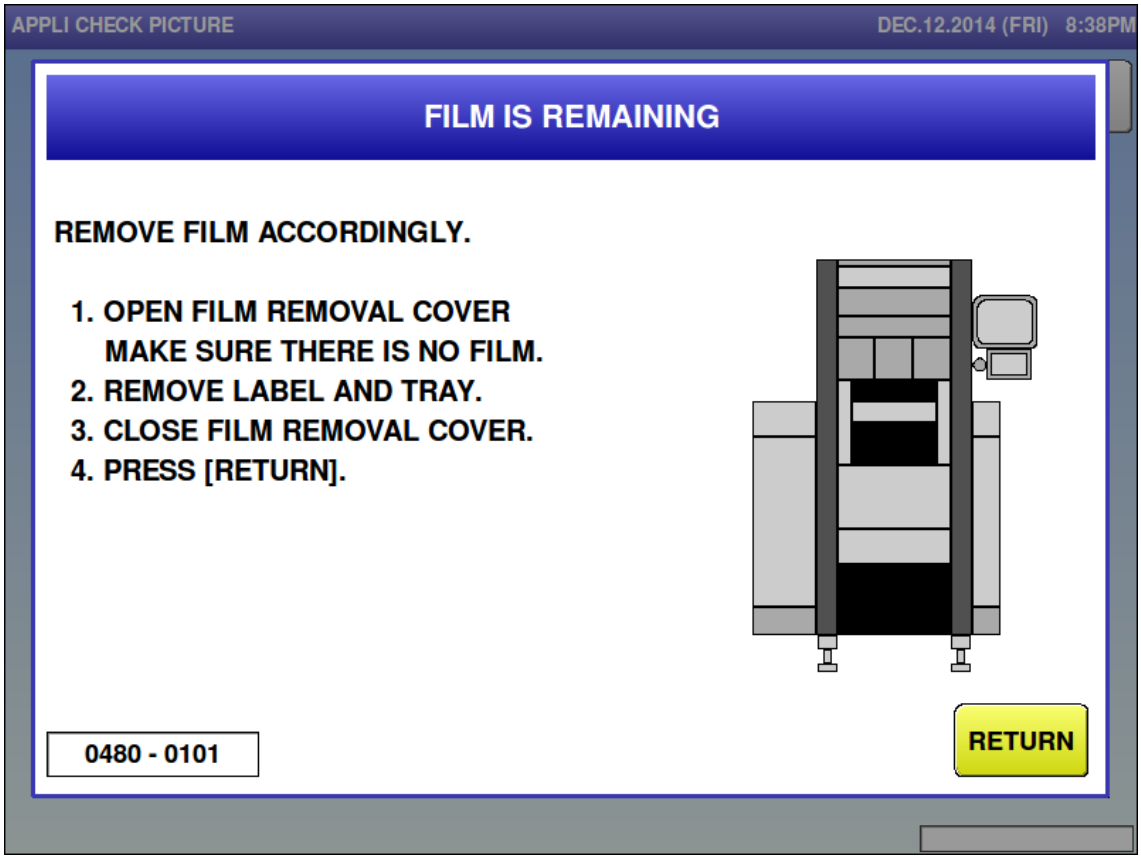
Error content	Film is remaining.
Detail	The film sensor board is knocked over when the film started to be sent. The bit mask shows the knocked over sensor location. Number and location correlation are as follows: 0001: Rear right 0010: Front right 0100: Rear left 1000: Front left (Ex) If remaining film were detected in the rear right and front right, the sub-error would be 0011.
Solution	Press the [RETURN] button after removing film
Action by user	
Action by service representative	
Related part	<If the error occurs even after the film is removed> ① P-1105 [A200] ② Film presence front right [B209] ③ Film presence front left [B208] ④ Film presence rear left [B210] ⑤ Film presence rear right [B209]
Remarks	

■ Film is remaining (480－0100)



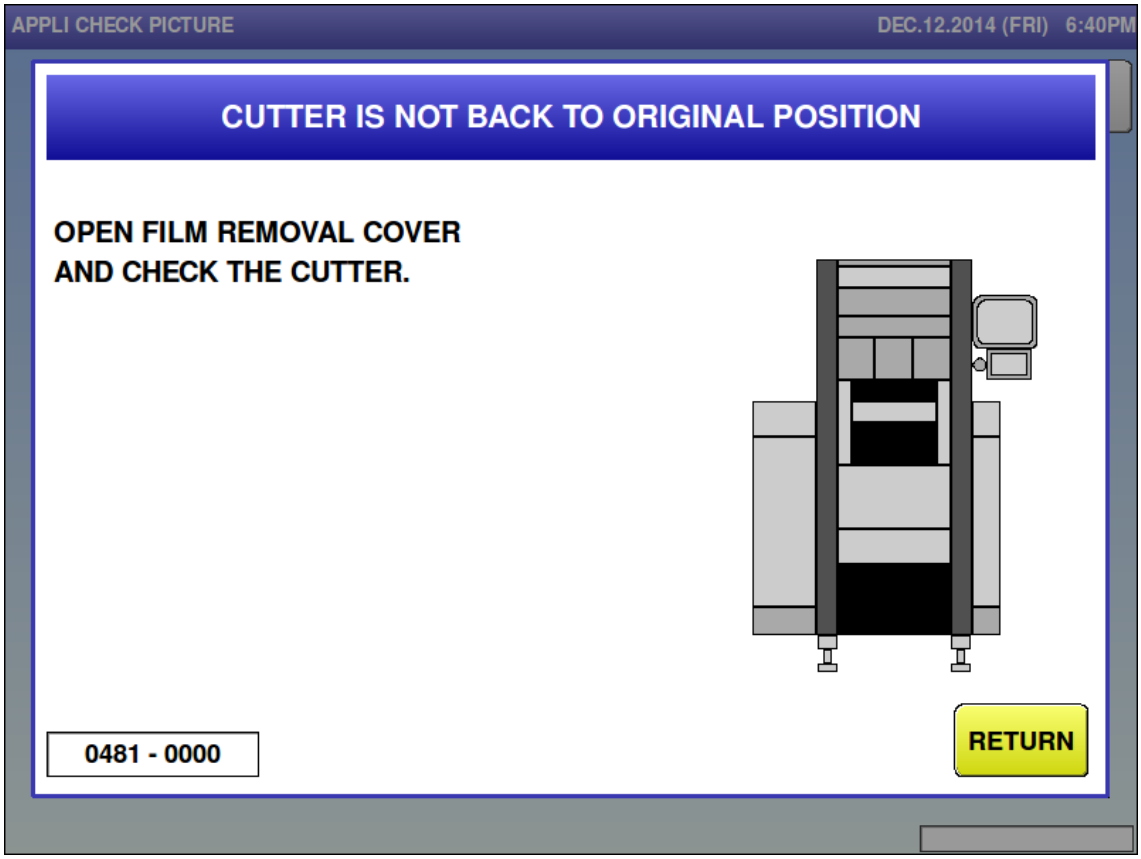
Error content	Film is remaining.
Detail	The film sensor board is knocked over when the film started to be sent. The bit mask shows the knocked over sensor location. Number and location correlation are as follows: 0001: Rear right　0010: Front right　0100: Rear left　1000: Front left (Ex) If remaining film were detected in the rear right and front right, the sub-error would be 0011.
Solution	Press the [RETURN] button after removing film
Action by user	
Action by service representative	
Related part	<If the error occurs even after the film is removed> ① P-1105 [A200] ② Film presence front right [B209] ③ Film presence front left [B208] ④ Film presence rear left [B210] ⑤ Film presence rear right [B211]
Remarks	

■ Film is remaining (480－0101)



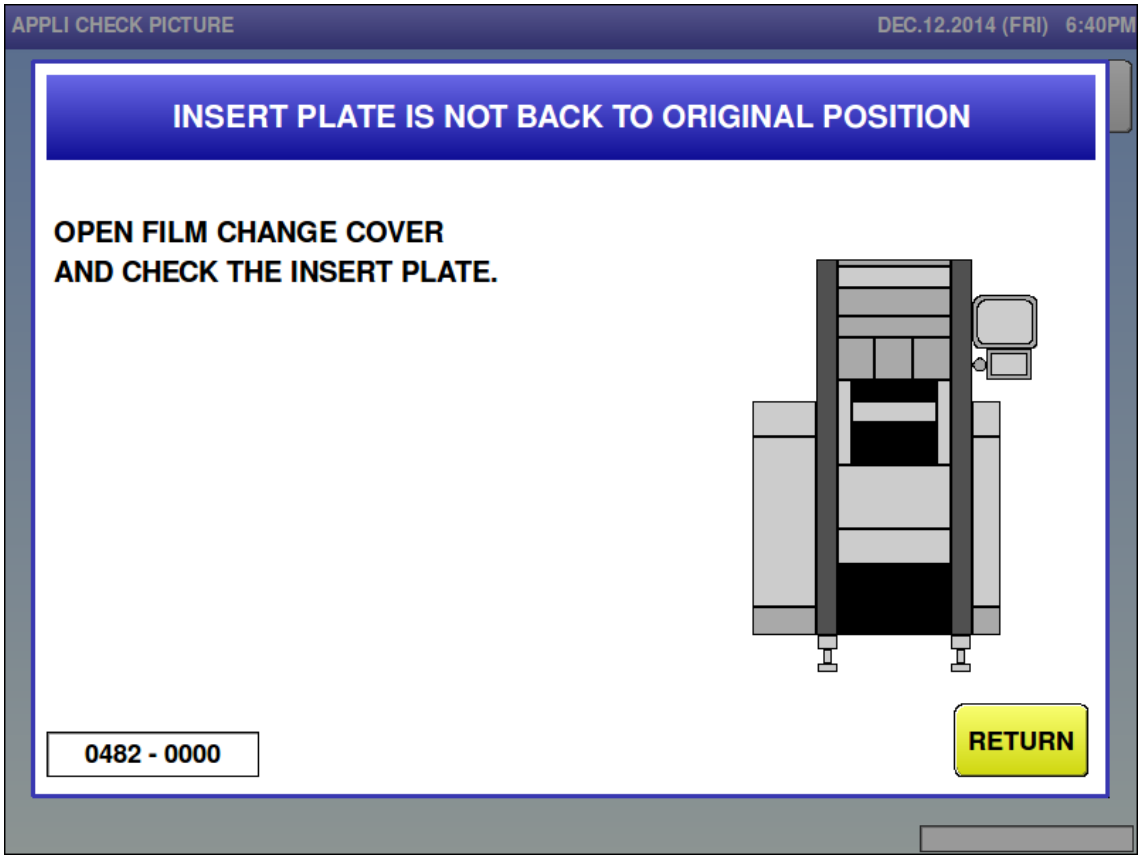
Error content	Film is remaining.
Detail	The film sensor board is knocked over when the film started to be sent. The bit mask shows the knocked over sensor location. Number and location correlation are as follows: 0001: Rear right　0010: Front right　0100: Rear left　1000: Front left (Ex) If remaining film were detected in the rear right and front right, the sub-error would be 0011.
Solution	Press the [RETURN] button after removing film
Action by user	
Action by service representative	
Related part	<If the error occurs even after the film is removed> ① P-1105 [A200] ② Film presence front right [B209] ③ Film presence front left [B208] ④ Film presence rear left [B210] ⑤ Film presence rear right [B211]
Remarks	

■ Cutter is not back to original position (481)



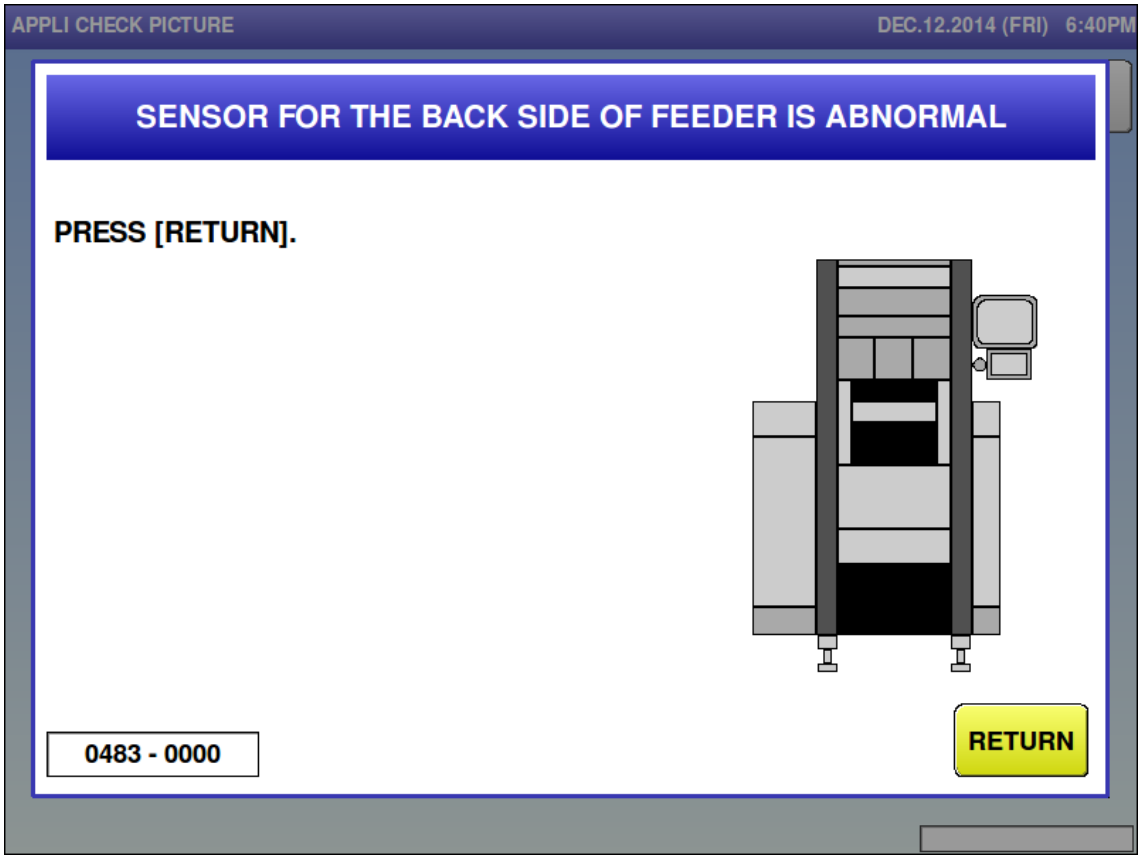
Error content	Cutter is not back to original position.
Detail	Cutter is not back to original position when starting cutter operation.
Solution	Press the [RETURN] button after checking for objects.
Action by user	
Action by service representative	
Related part	① P-1105 [A300] ② Origin point of cutter [B300] ③ Cutter solenoid front [L300] ④ Cutter solenoid rear [L301]
Remarks	

■ Insert plate is not back to original position (482)



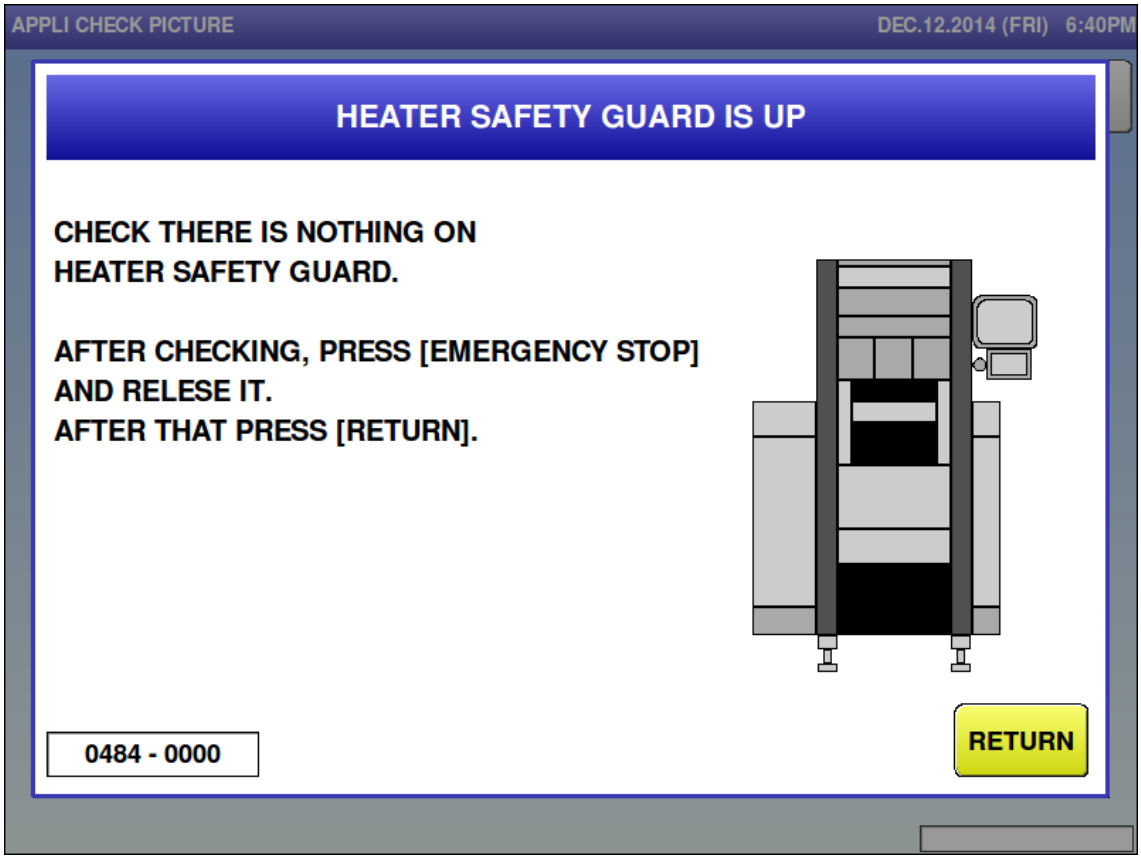
Error content	Insert plate is not back to original position.
Detail	The cutter can't be switched on as the insert plate has not returned to its original position when cutter operation started. Sub-error meanings are as follows: 0000: Upper side insert plate did not return to its original position 0001: Lower side insert plate did not return to its original position 0006: Insert plate of send side did not return to its original position during returning operation 0007: Insert plate did not return to its original position while loading
Solution	Press the [RETURN] button after checking the insert plate.
Action by user	
Action by service representative	
Related part	① P-1105 [A300] ② Origin point of insert [B301]
Remarks	

■ Sensor for the back side of feeder is abnormal (483)



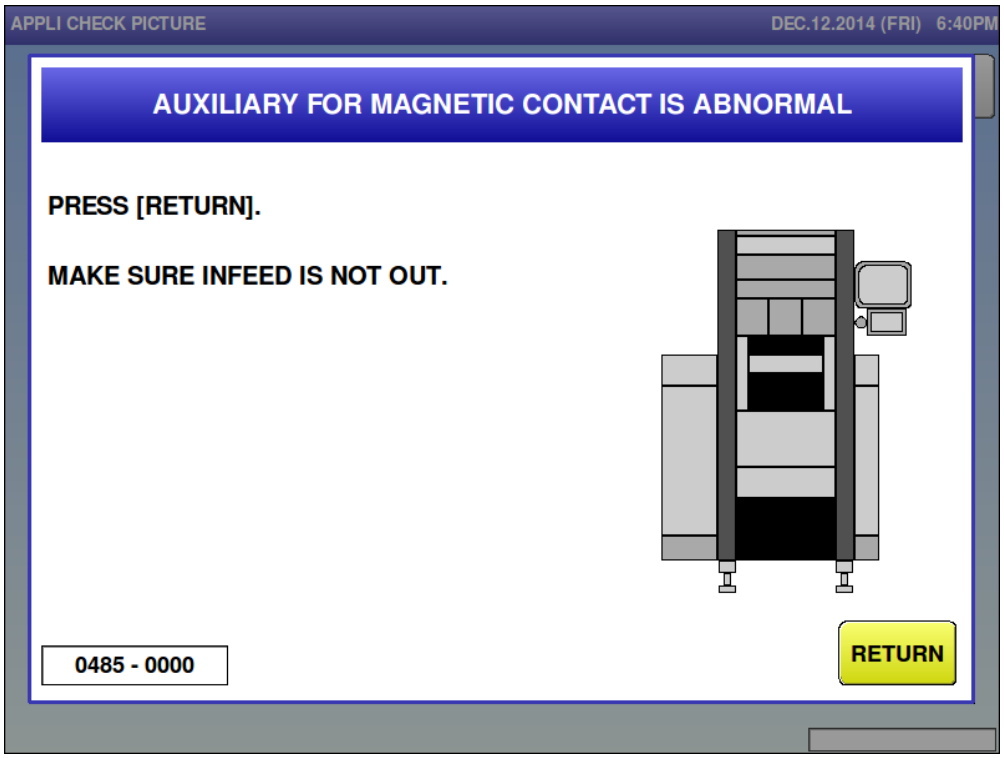
Error content	Sensor for the back side of feeder is abnormal
Detail	An impossible input combination has occurred in the sensor (Original point, small lift boundary, large lift boundary) detecting the back feeder position. The sub-error screens the input conditions as shown below. 0003: Original point and the small lift boundary sensor are not receiving light 0005: The small lift boundary sensor and the large lift boundary sensor are not receiving light 0006: The original point sensor and the large lift boundary sensor are not receiving light 0007: Three of them are not receiving light.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Back side of feeder, origin point [B212] ③ Back side of feeder, position small [B217] ④ Back side of feeder, position large [B218]
Remarks	

■ Heater safety guard is up (484)



Error content	Heater safety guard is up
Detail	After the pusher is restored, if the heater safety guard is up, the pusher downs the guard. If the sensor is still emitted afterwards, an error occurs.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① P-1105 [A100] ② Origin point of heater safety guard [B103] ③ Heater safety guard solenoid [L100]
Remarks	

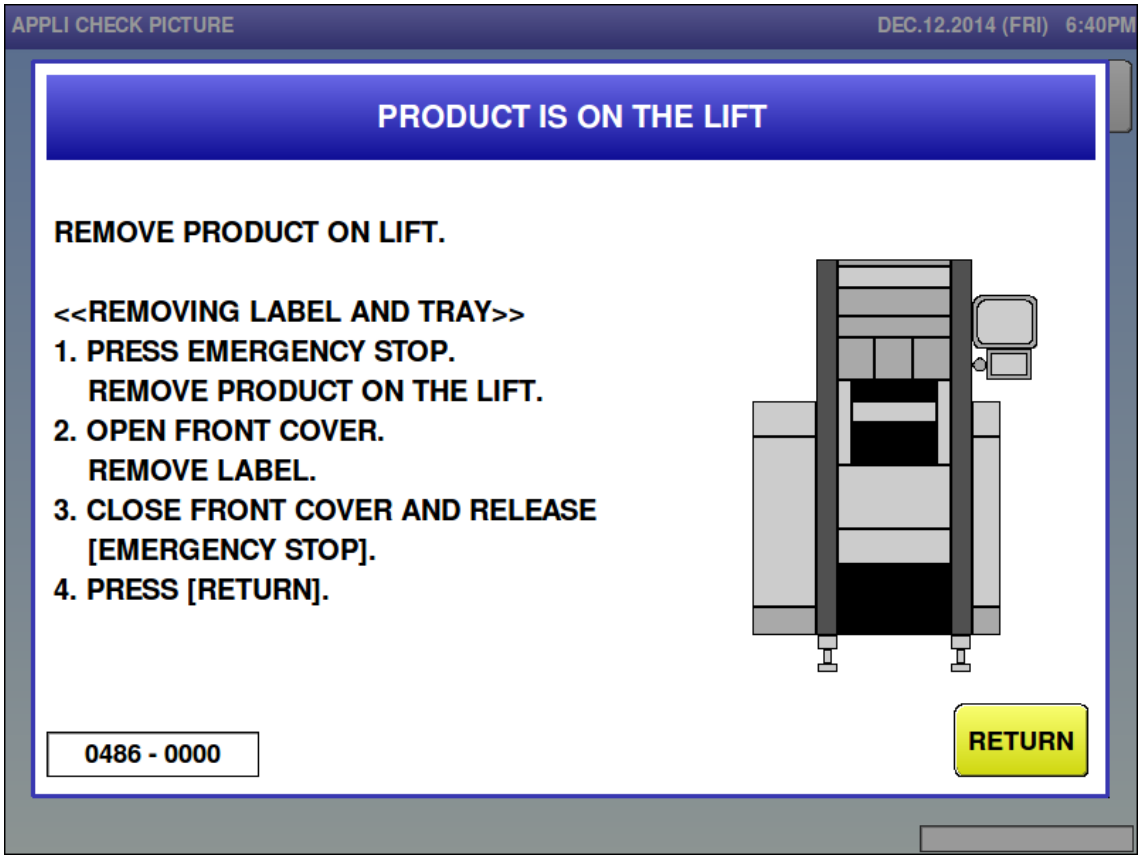
■ Auxiliary for magnetic contact is abnormal (485)



Error content	Auxiliary for magnetic contact is abnormal
Detail	Error occurred between the electromagnetic contact auxiliary contact input opening and closing the power line and each cover switch open/closed condition while waiting for the wrapper or during operation. This electromagnetic switch is blocking the power line (200VAC, 24VDC). For example, if the electromagnetic switch auxiliary contact is open and each cover safety switch and the emergency stop switch are closed and this error continues for 5 seconds, this error occurs. The switch location where the error occurred is displayed in the sub-error as below. If multiple covers are open, values given below are added and displayed in the sub-error. 2048: Film replacement cover open 1024: Front cover is open 0256: Infeed conveyors pulled out 0128: Emergency stop switch ON 0064: Film removal cover is open 0000: No cover is open
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	[485-0000] ① P-1105 [A100-XJ19] ② Magnetic contact [K100, K101] and wiring of magnetic contact

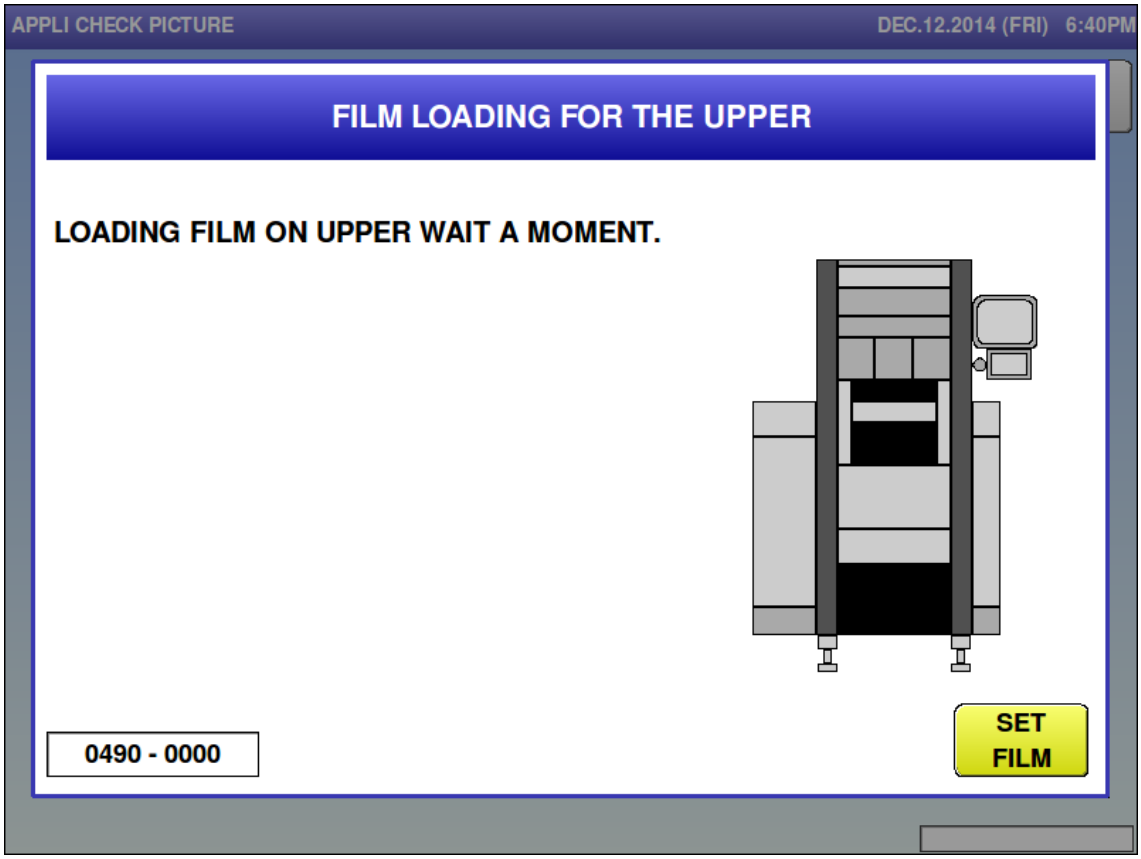
	[Other than 485-0000] ① Wiring to the switch described in the detail.
Remarks	It is not an actual failure; however, this error occurs easily when a cover is half-way closed.

■ Product is on the lift (486)



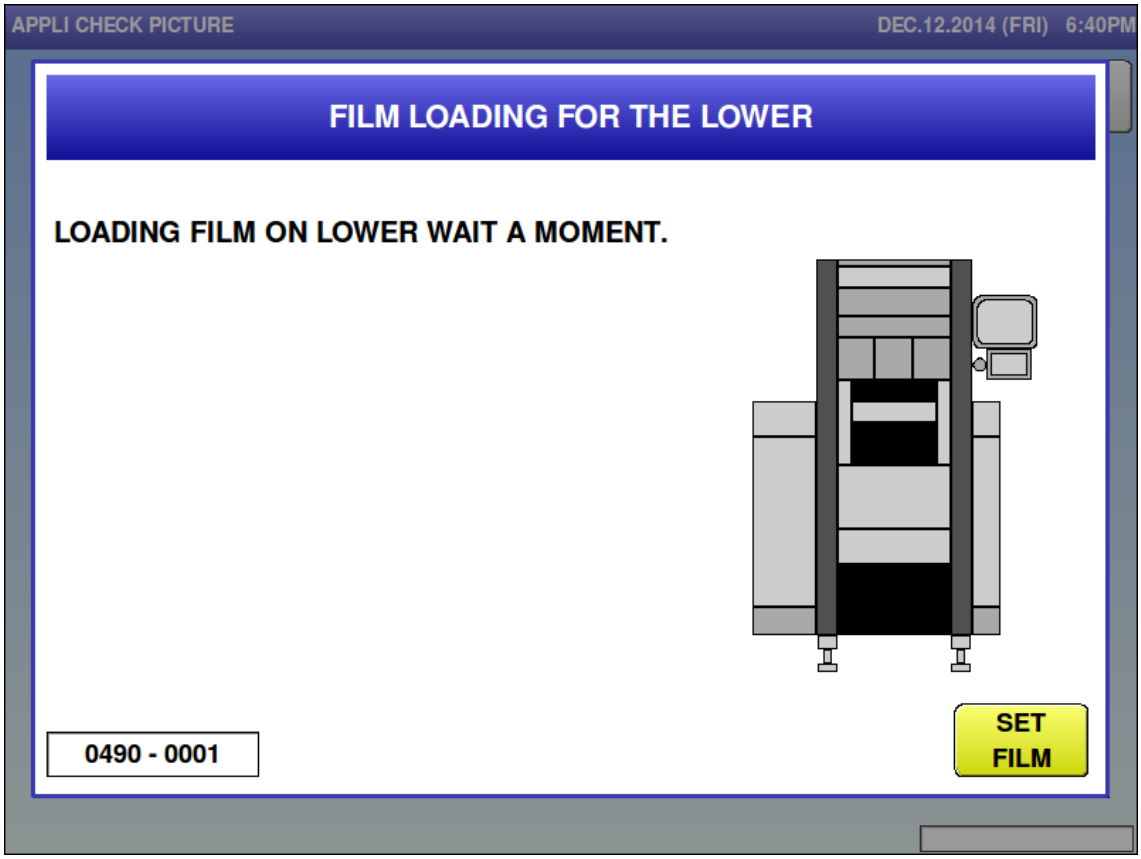
Error content	Product is on the lift
Detail	There was a product on the lift when each of the following operations was started (completed). Sub-error meanings are as follows: 0000: After completion of returning operation 0004: Wrapping the first product is attempted. 0007: Shifting to sleep mode Others: Sending film or film loading is attempted
Solution	Press the [RETURN] button after removing the product
Action by user	
Action by service representative	
Related part	① P-1105 [A200] ② Detection of products on the lift [B206]
Remarks	

■ Film loading for the upper (490－0000)



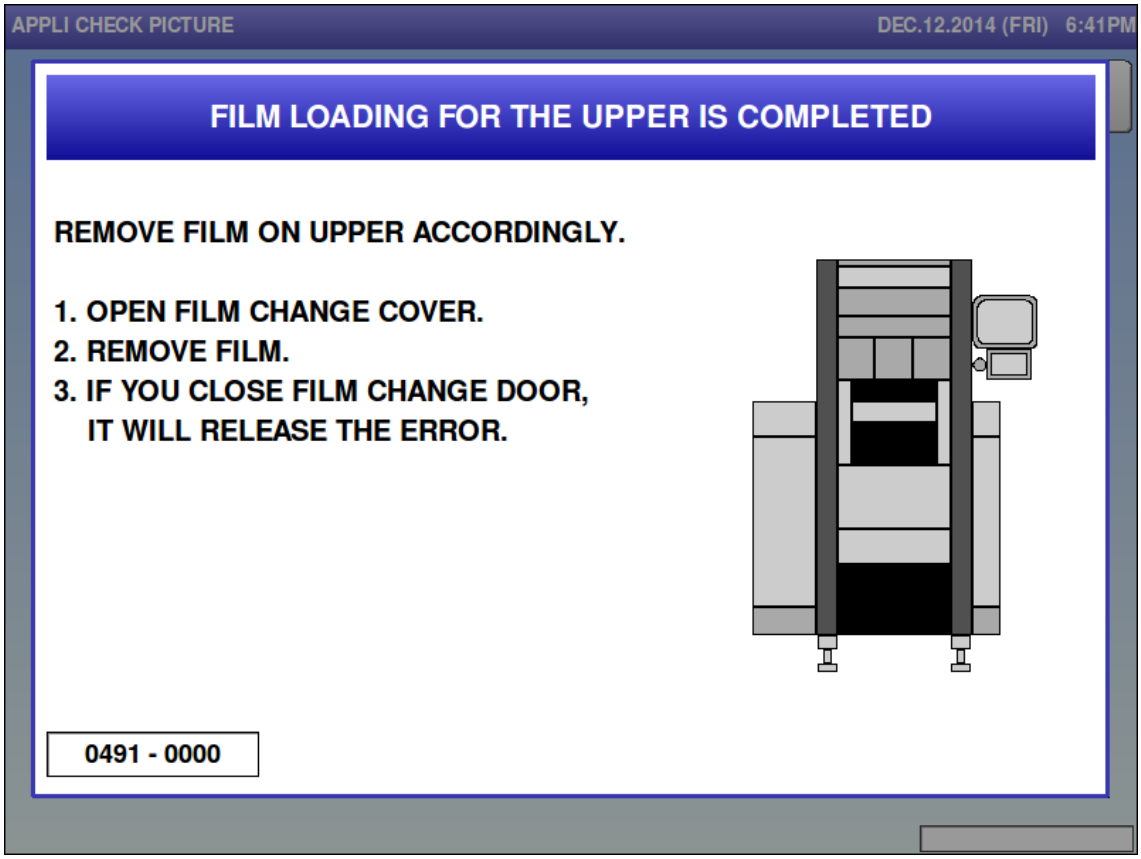
Error content	Starting the upper film loading
Detail	Film loading operation began after film loading procedure completion. Film loading operation began after pressing the film set button.
Solution	Ends automatically after film loading has completed
Action by user	
Action by service representative	
Related part	
Remarks	

■ Film loading for the lower (490－0001)



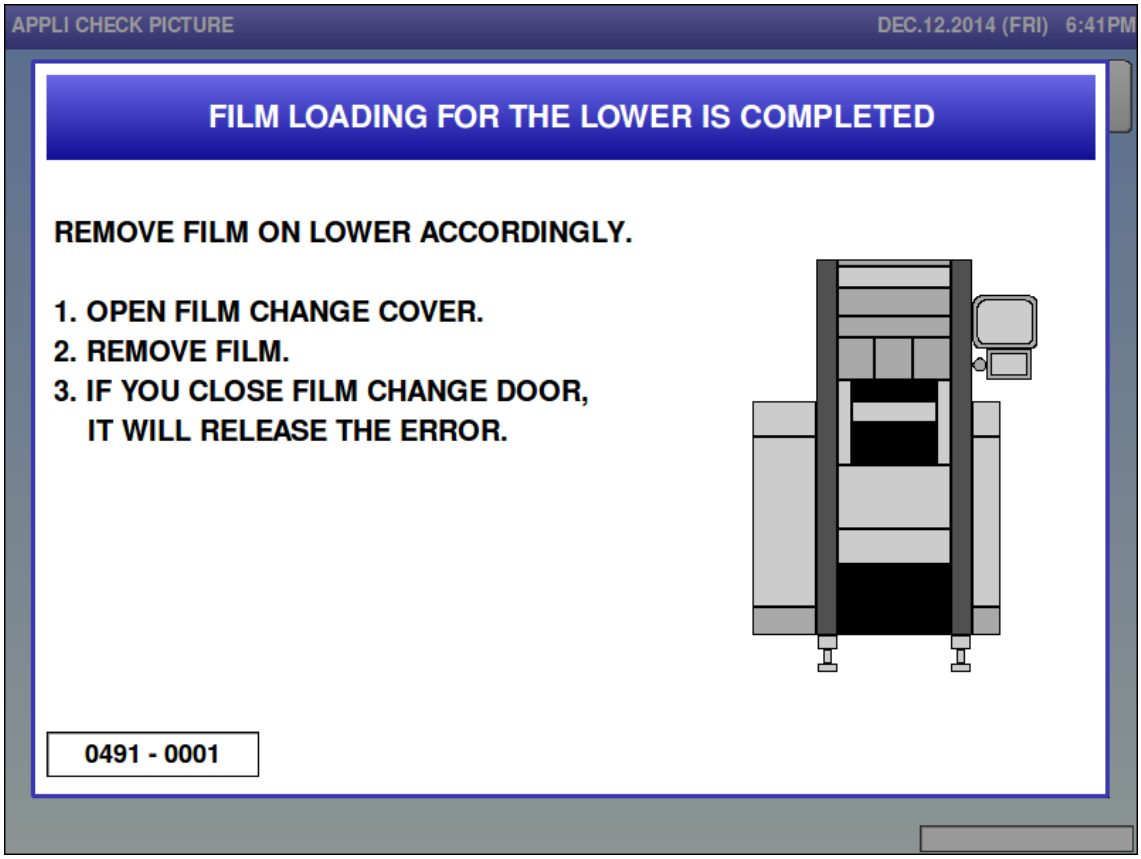
Error content	Starting the lower film loading
Detail	Film loading operation began after film loading procedure completion. Film loading operation began after pressing the film set button.
Solution	Ends automatically after film loading has completed
Action by user	
Action by service representative	
Related part	
Remarks	

■ Film loading for the upper is completed (491－0000)



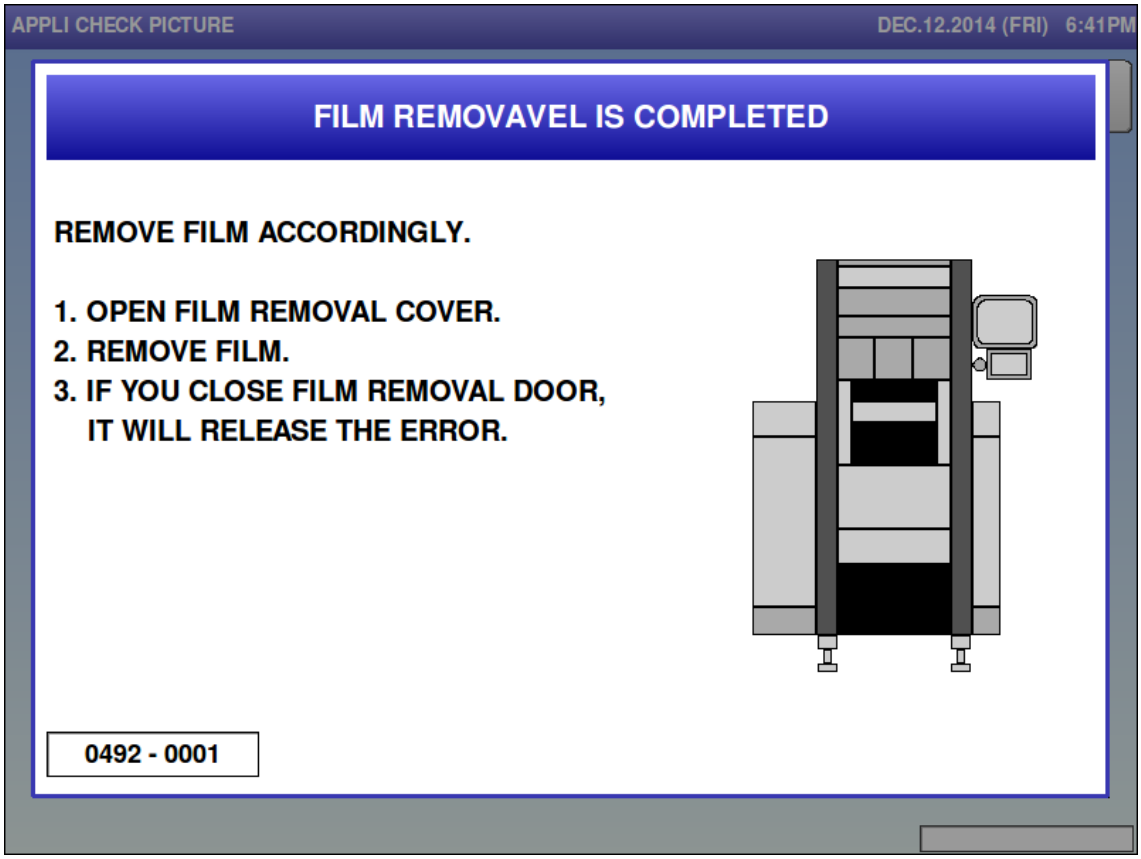
Error content	Film loading for the upper is completed
Detail	Film loading is completed.
Solution	Open the film remove cover, remove film, and close the door
Action by user	
Action by service representative	
Related part	
Remarks	

■ Film loading for the lower is completed (491－0001)



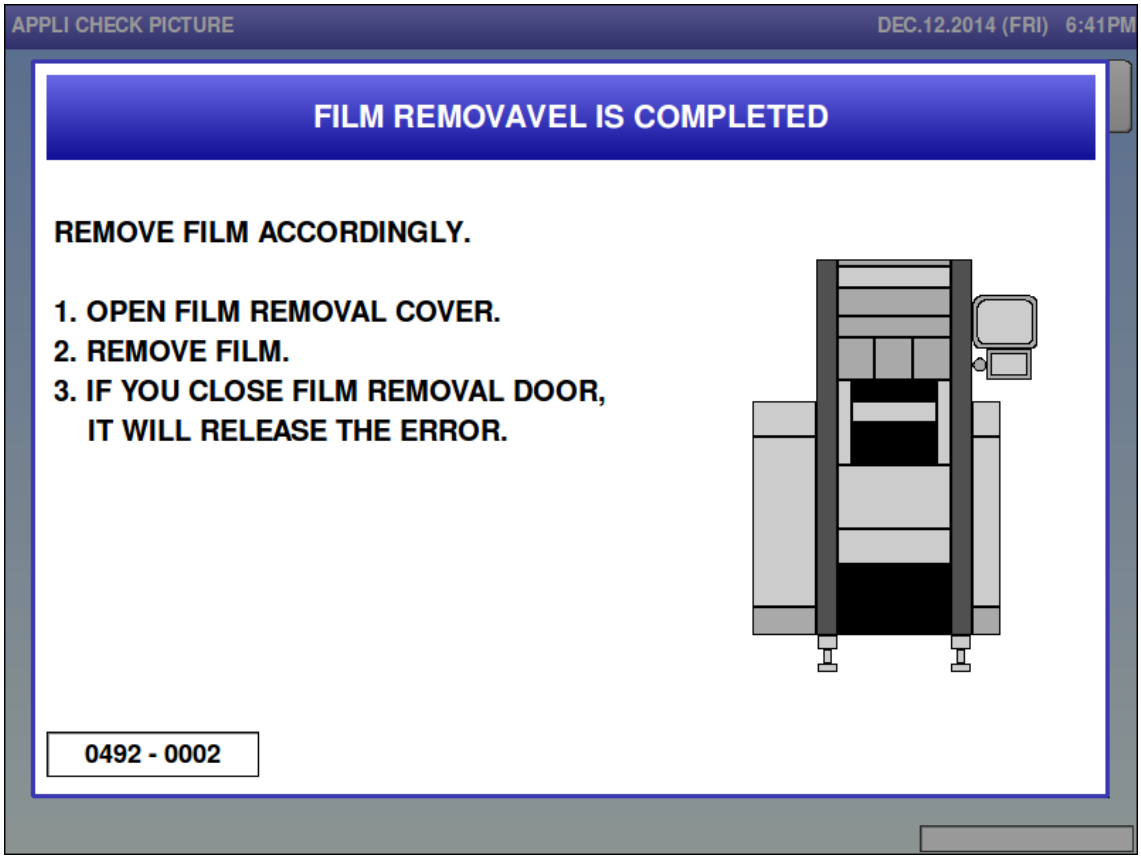
Error content	Film loading for the lower is completed
Detail	Film loading is completed.
Solution	Open the film remove cover, remove film, and close the door
Action by user	
Action by service representative	
Related part	
Remarks	

■ Film removal is completed (492－0001)



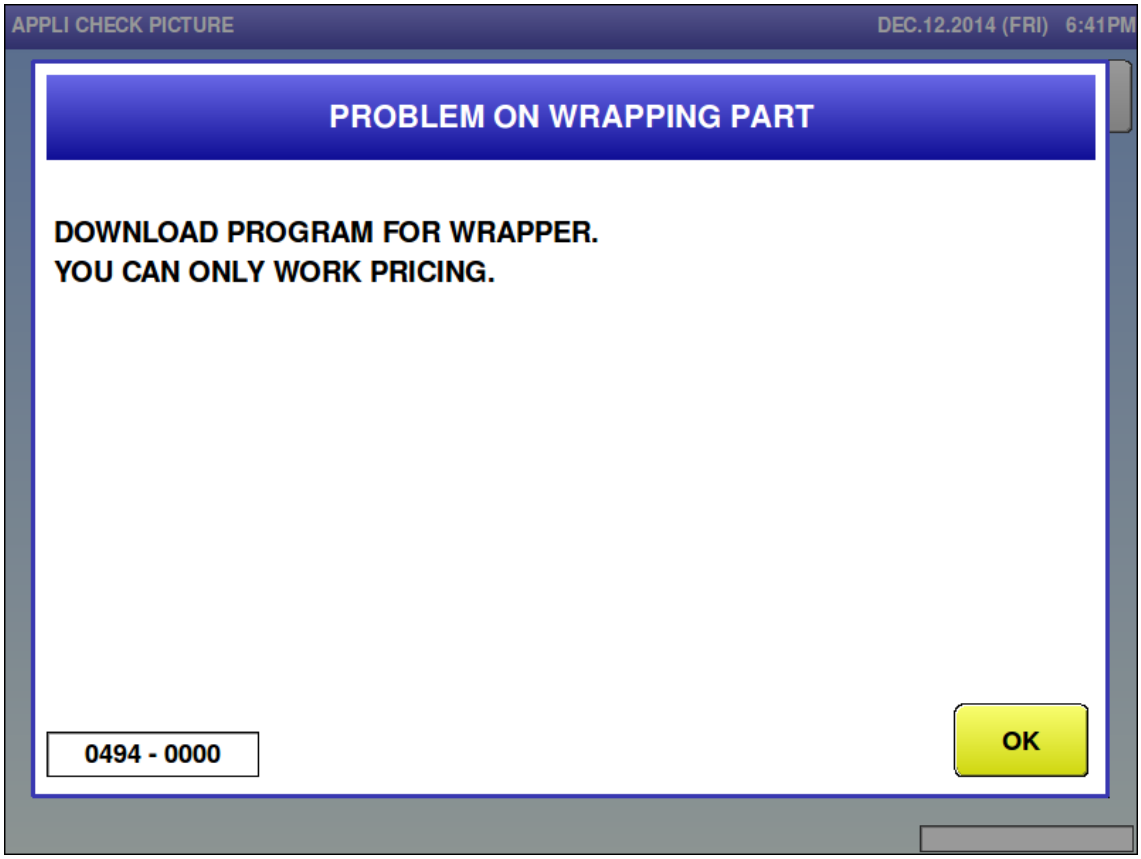
Error content	Film removal is completed
Detail	Film removal is completed
Solution	Open the film remove cover, remove film, and close the door
Action by user	
Action by service representative	
Related part	
Remarks	

■ Film removal is completed (492－0002)



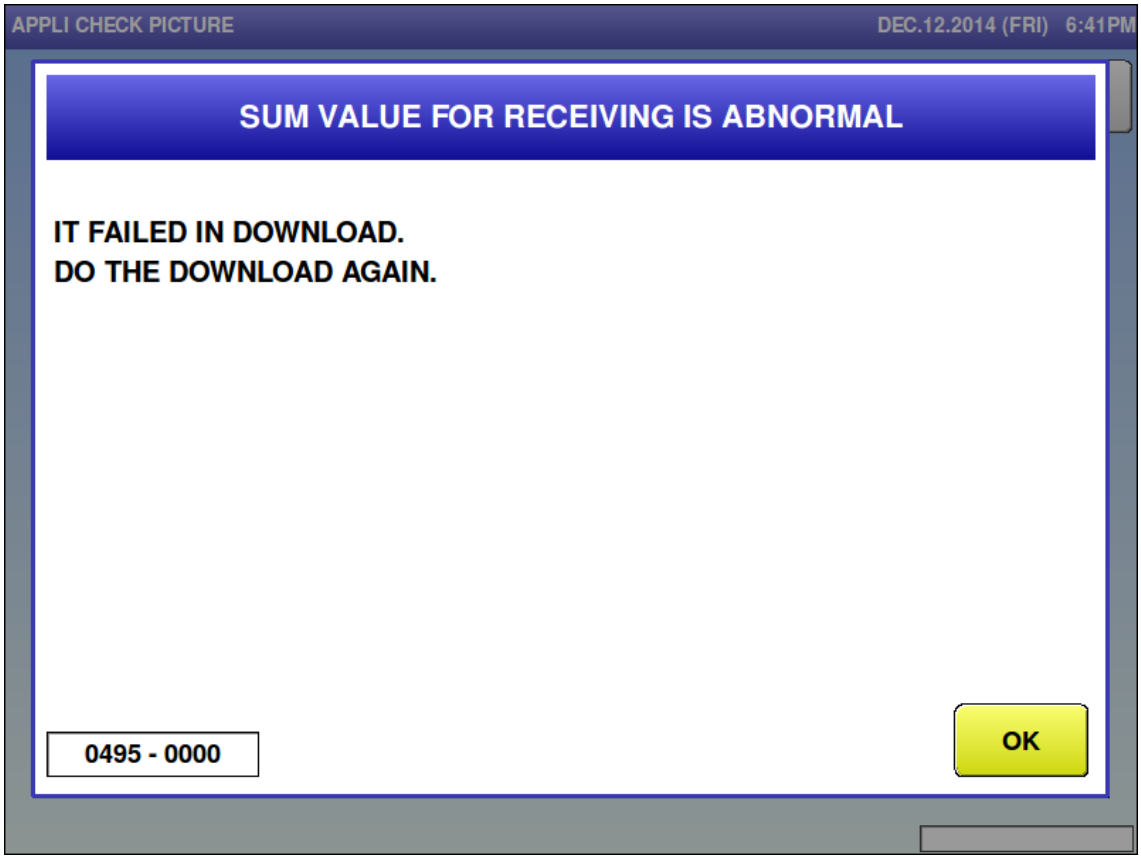
Error content	Film removal is completed
Detail	Film removal is completed.
Solution	Open the film remove cover, remove film, and close the door.
Action by user	
Action by service representative	
Related part	
Remarks	

■ Problem on wrapping part (494)



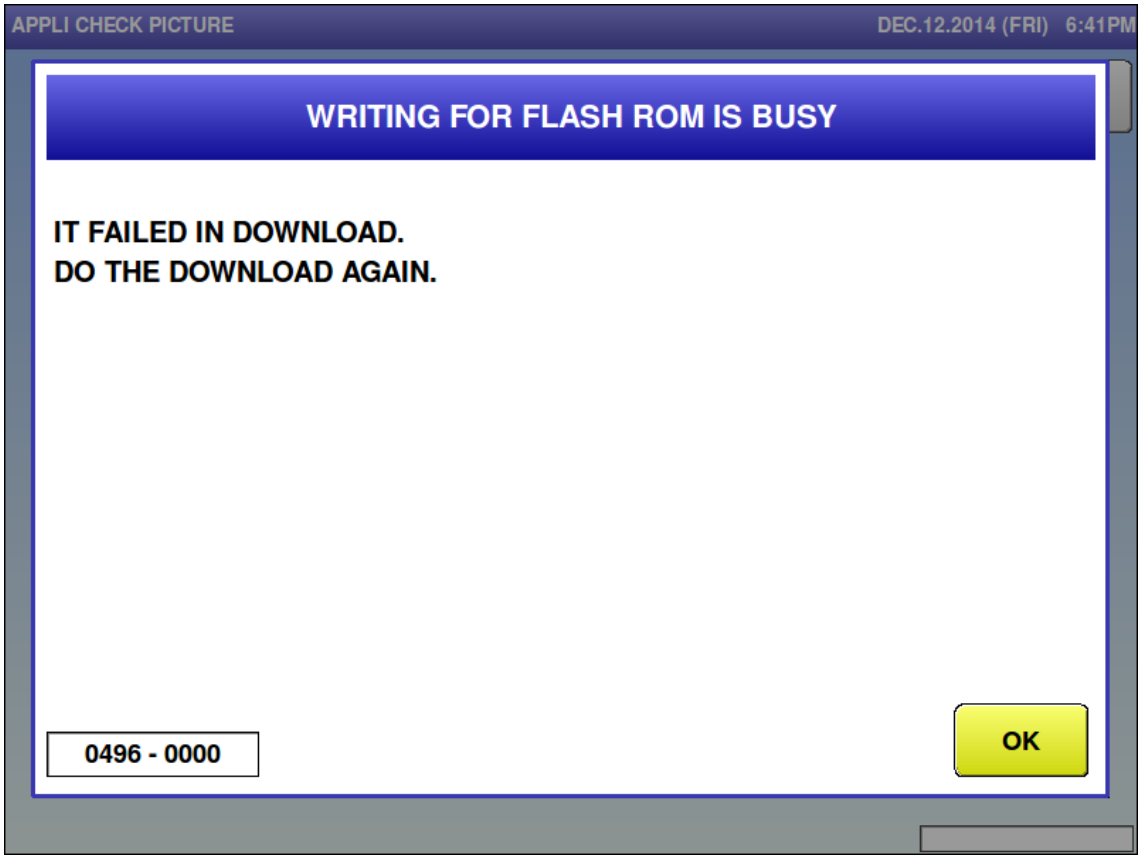
Error content	Wrapper application program is not installed
Detail	Wrapper application program is not installed (Not downloaded correctly) Sub-error meanings are as follows: 0000: When the [A200] board is replaced to new one (Application program checksum doesn't match) 0001: Failure transitioning to the application. 0009: Either of [A100], [A200], or [A300] board is replaced to new one (Application program checksum of all the boards is not always the same)
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	Download wrapper application program

■ Sum value for receiving is abnormal (495)



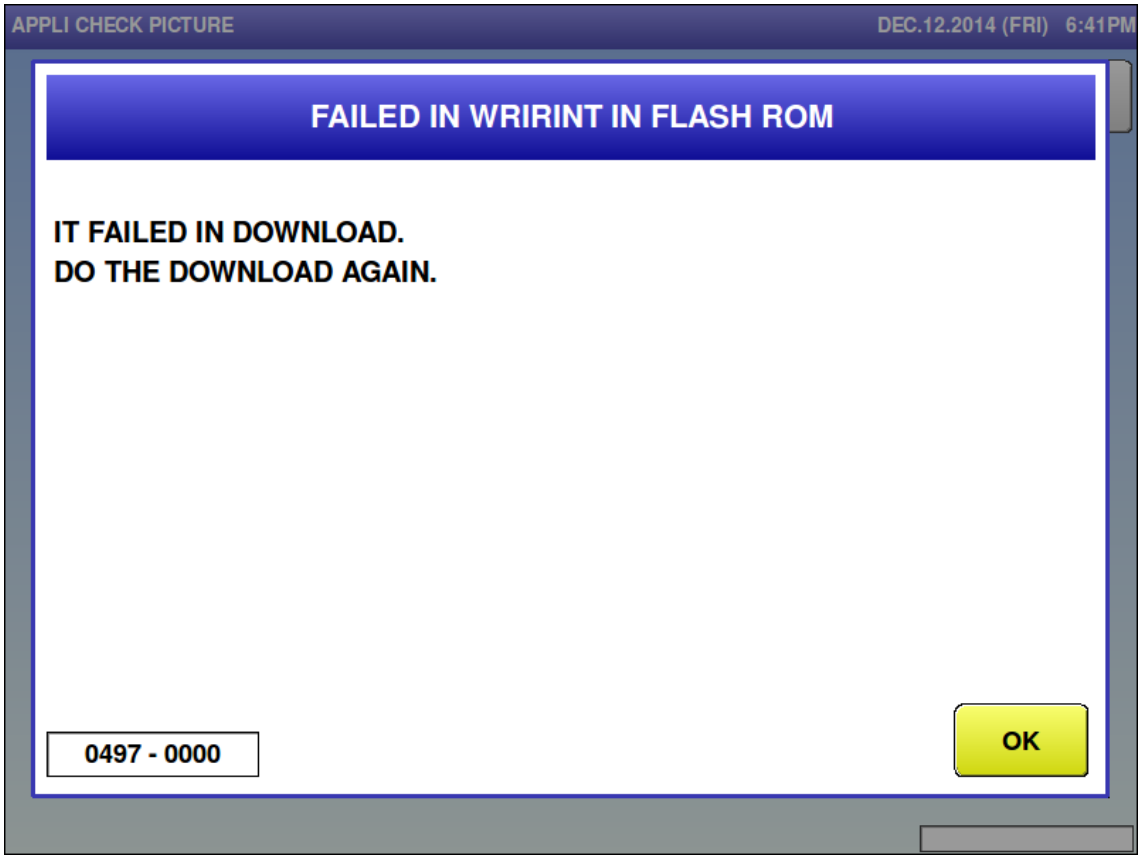
Error content	Sum value for receiving is abnormal
Detail	The program data sum value received from the wrapper is different from the sum value in the message
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	Re-download.

■ Writing for flash ROM is busy (496)



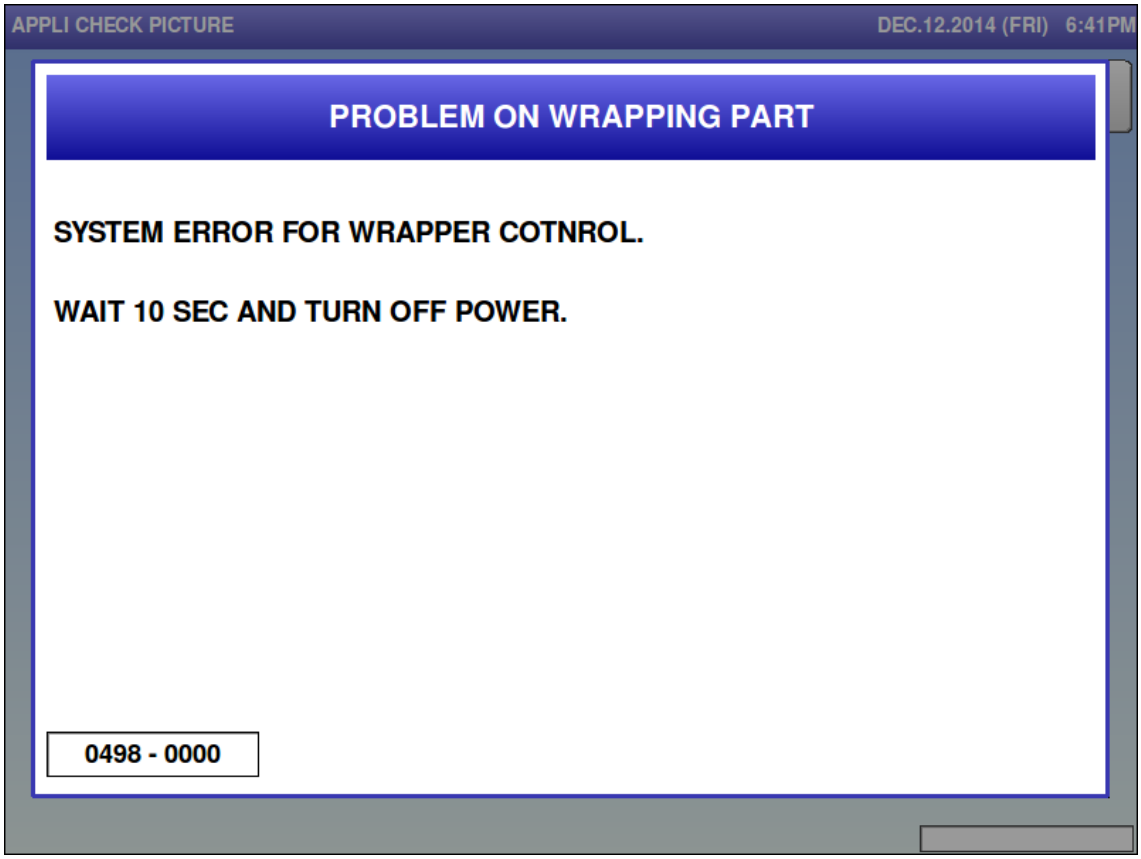
Error content	Flash ROM write condition exceeded the specified time amount
Detail	Does not change even if the flash ROM write condition exceeds the specified time amount in wrapper application program download
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	Re-download.

■ Failed in writing in flash ROM (497)



Error content	Flash ROM write-in error in wrapper program download
Detail	An error occurred when writing program data received from the wrapper to the flash ROM. Sub-error meanings are as follows: 0001: Flash ROM erasure failure. 0002: Application program flash ROM write-in failure. 0003: Application program sum value flash ROM write-in error. 0004: Message sequence extending to flash ROM write-in is mismatched. 0005: Received a download command even though it is not in boot mode (during application program operation).
Solution	[OK] button
Action by user	
Action by service representative	
Related part	Confirm that all 2, 3 and 4 of DIP switch 1 of P-1105 [A100, A200, A300] are OFF.
Remarks	Re-download.

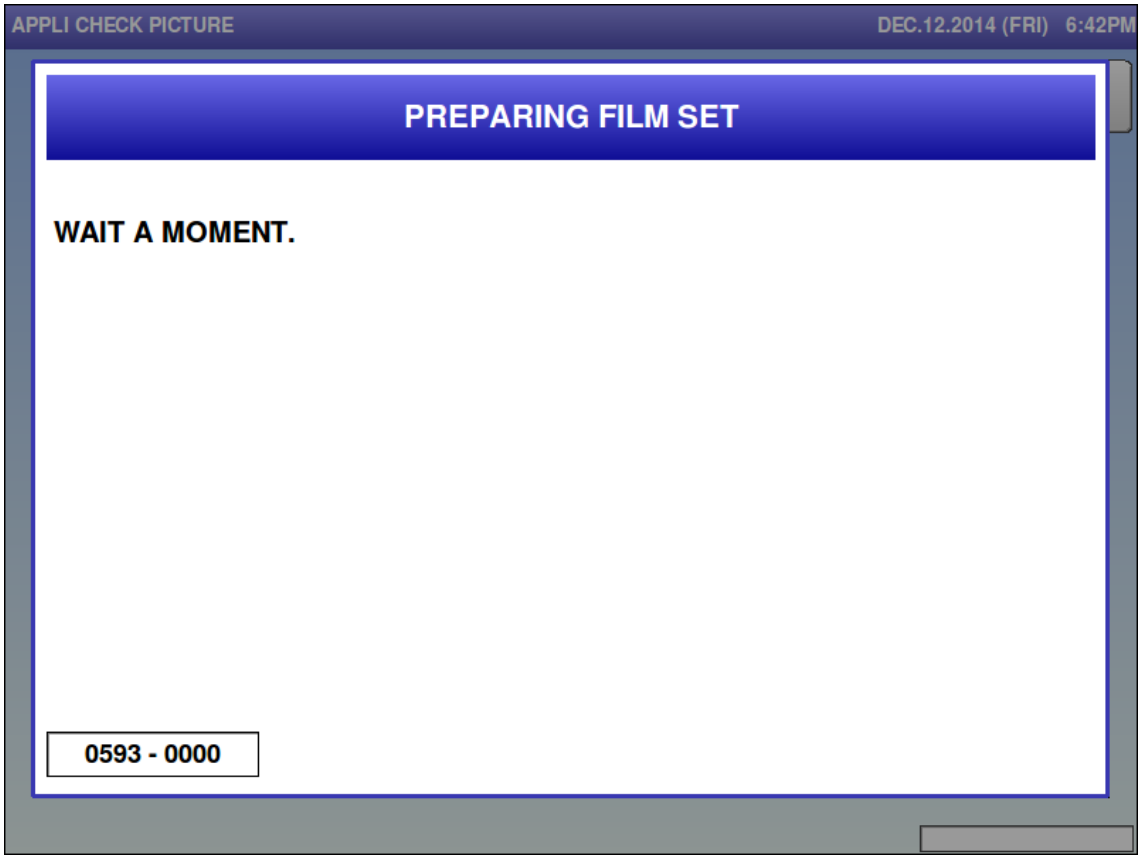
■ Problem on wrapping part (498)



Error content	Wrapper system error
Detail	A malfunction occurred in the wrapper program. Sub-error meanings are as follows: 001X to 003X: CAN communications are not synchronized. 0012: For a wrapping request, only child (A100) received a command / For sending hold instruction, no response was received. 0013: For a discharge request, only child (A100) received a command / For sending hold instruction, no response was received. 0017: For a wrapping request, only child (A100) received a command / For sending hold instruction, different answer from sending was returned. 0018: For a discharge request, only child (A100) received a command / For sending hold instruction, different answer from sending was returned. 0022: For a wrapping request, only child(A300) received a command / For sending hold instruction, no response was received. 0023: For a discharge request, only child(A300) received a command / For sending hold instruction, no response was received. 0027: For a wrapping request, only child(A300) received a command / For sending hold instruction, different answer from sending was returned. 0028: For a discharge request, only child(A300) received a command / For sending hold instruction, different answer from sending was returned. 0032: For a wrapping request, both of child(A100) and child(A300) received a command / For sending hold instruction, no response was received. 0033: For a discharge request, both of child(A100) and child(A300) received a command / For sending hold instruction, no response was received.

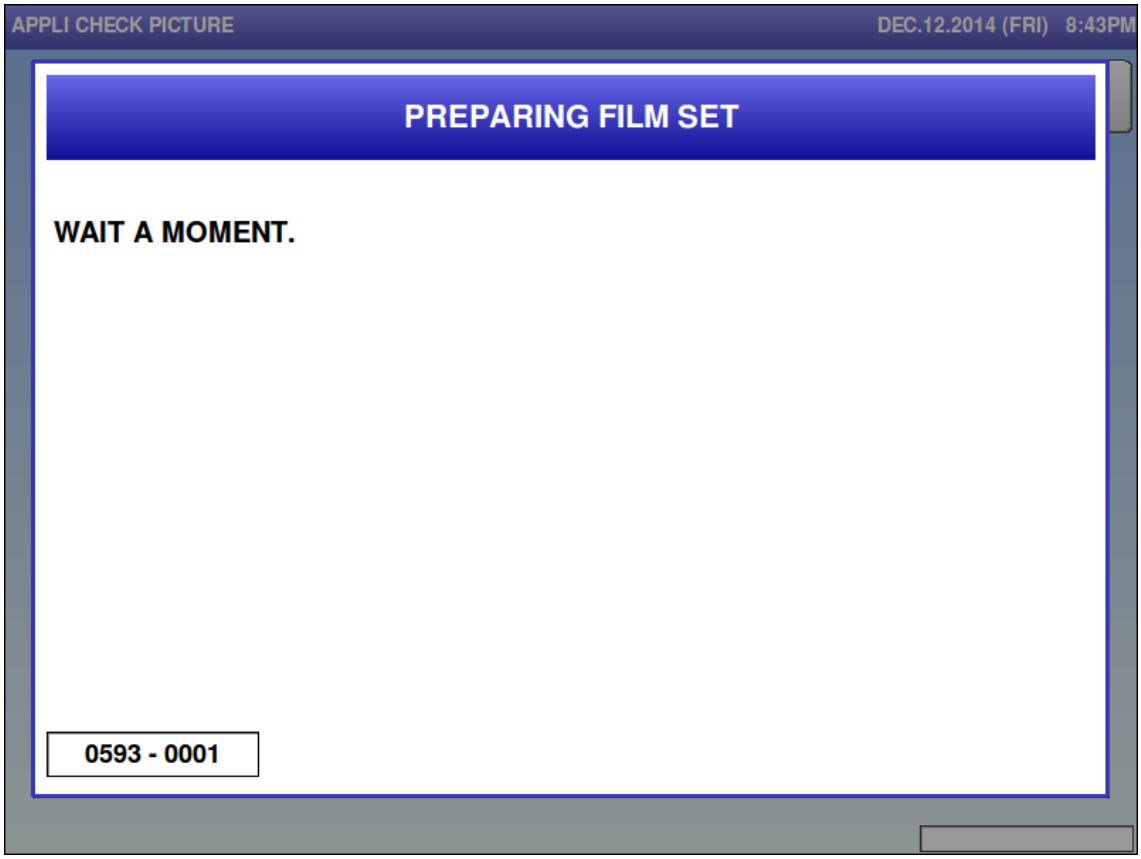
	0037: For a wrapping request, both of child(A100) and child(A300) received a command / For sending hold instruction, different answer from sending was returned. 0038: For a discharge request, both of child(A100) and child(A300) received a command / For sending hold instruction, different answer from sending was returned. 1014: Operation was not completed after the grip operation protection timer run out. 1017: Operation was not completed after the cutter operation protection timer run out.
Solution	Restore power
Action by user	
Action by service representative	
Related part	
Remarks	

■ Preparing film set (593－0000)



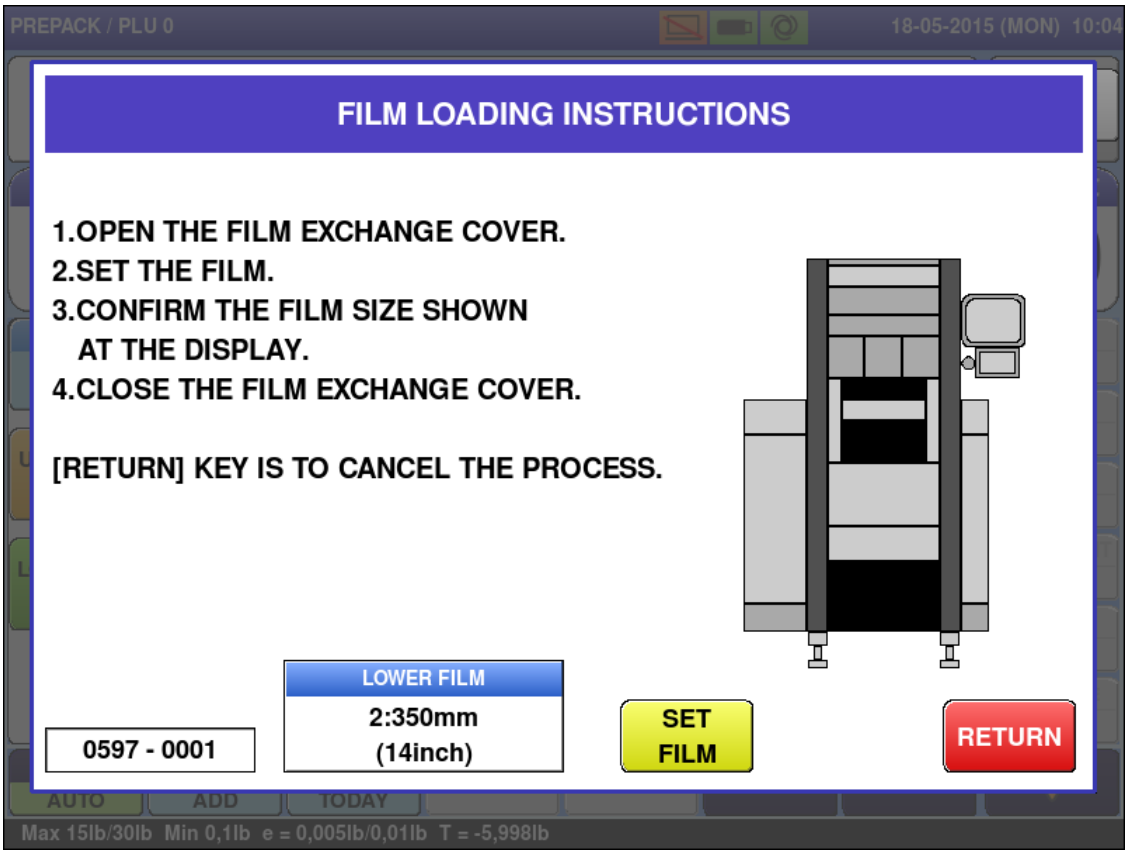
Error content	Preparing film set
Detail	Message indicates that the insert plate is moving towards the film set position.
Solution	Clears automatically when the insert plate reached the film set position.
Action by user	
Action by service representative	
Related part	
Remarks	Sub-error 0000 is displayed when upper film is set.

■ Preparing film set (593－0001)



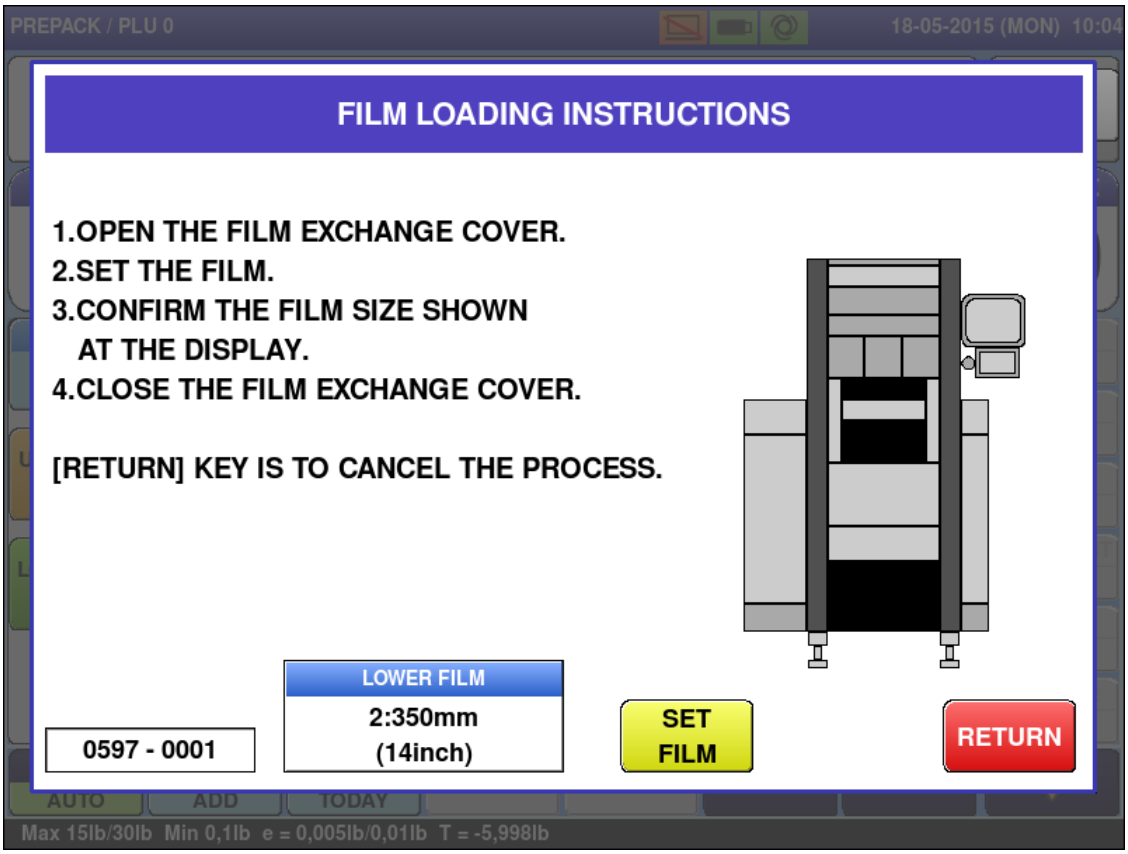
Error content	Preparing film set
Detail	Message indicates that the insert plate is moving towards the film set position.
Solution	Clears automatically when the insert plate reached the film set position.
Action by user	
Action by service representative	
Related part	
Remarks	Sub-error 0001 is displayed when lower film is set.

■ Film loading instructions (597－0000)



Error content	Film loading instructions
Detail	Message indicates that the insert plate reached the film set position. Sets the film size or film [UPPER FILM] sets the upper film size.
Solution	① Press either the [RETURN] button or the [SET FILM] button. [RETURN]: Returns to the original screen. *Film size returns to the original data. [SET FILM]: Sets the film. ② Open the film exchange cover and close the cover after the film is set.
Action by user	
Action by service representative	
Related part	
Remarks	Sub-error 0000 is displayed when upper film is set.

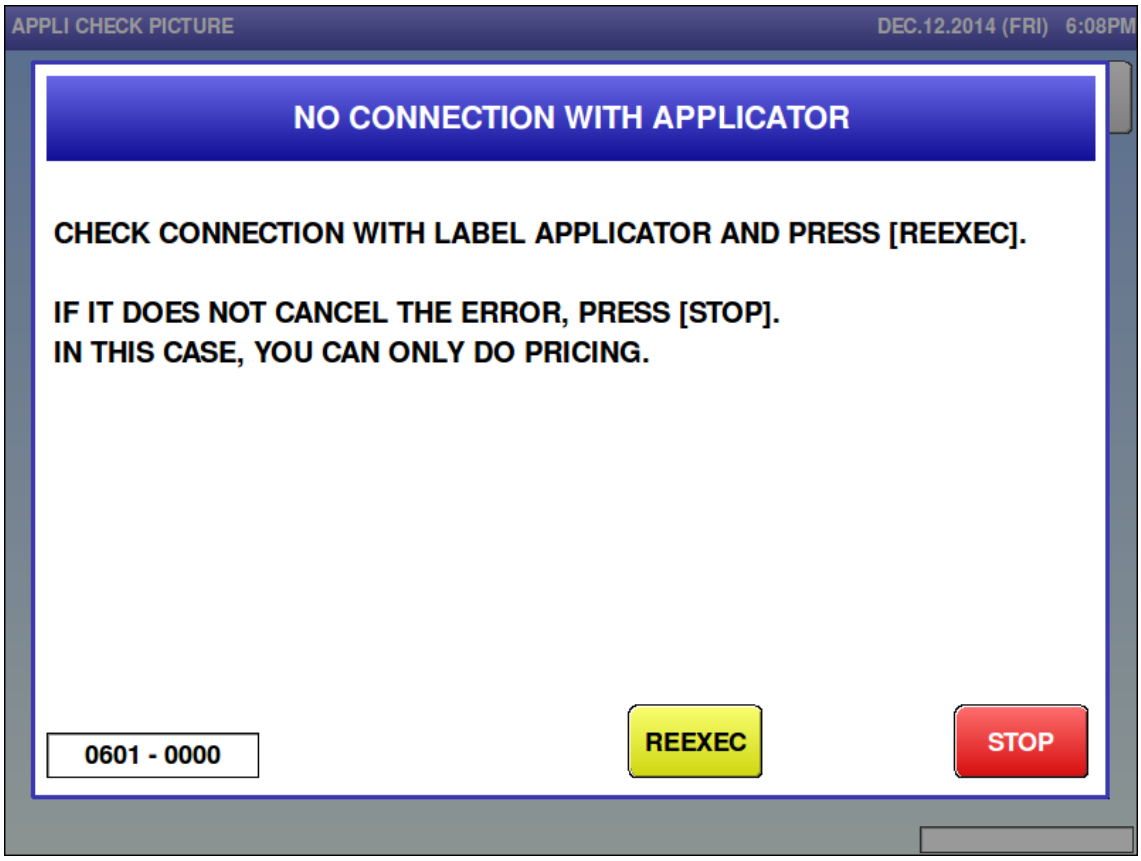
■ Film loading instructions (597－0001)



Error content	Film loading instructions
Detail	Displays until operation of insert plate is completed towards the film set position. Sets the film size or film [LOWER FILM] sets the lower film size.
Solution	① Press either the [RETURN] button or the [SET FILM] button. [RETURN] : Returns to the original screen *Film size returns to the original data. [SET FILM]: Sets the film. ② Open the film exchange cover and close the cover after the film is set.
Action by user	
Action by service representative	
Related part	
Remarks	Sub-error 0001 is displayed when lower film is set.

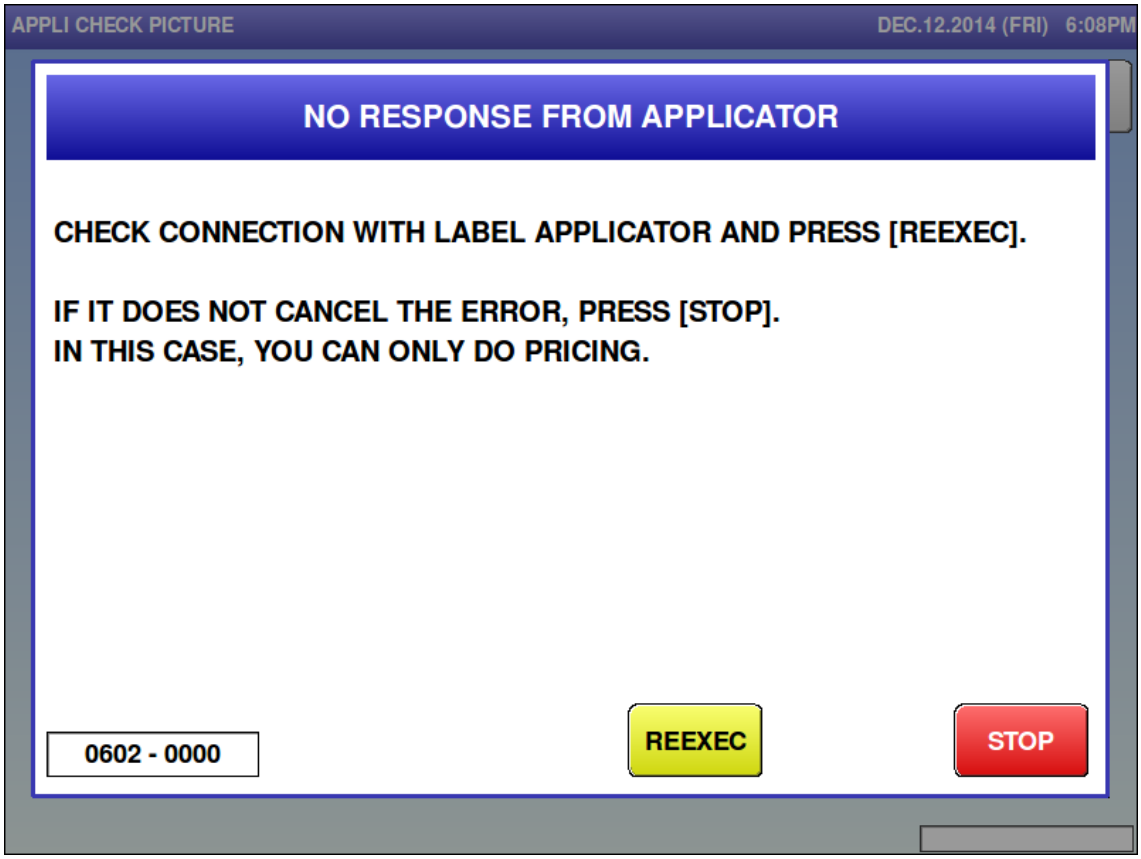
6.3.5 Applicator-related Error (No. 600s)

■ No connection with applicator (601)



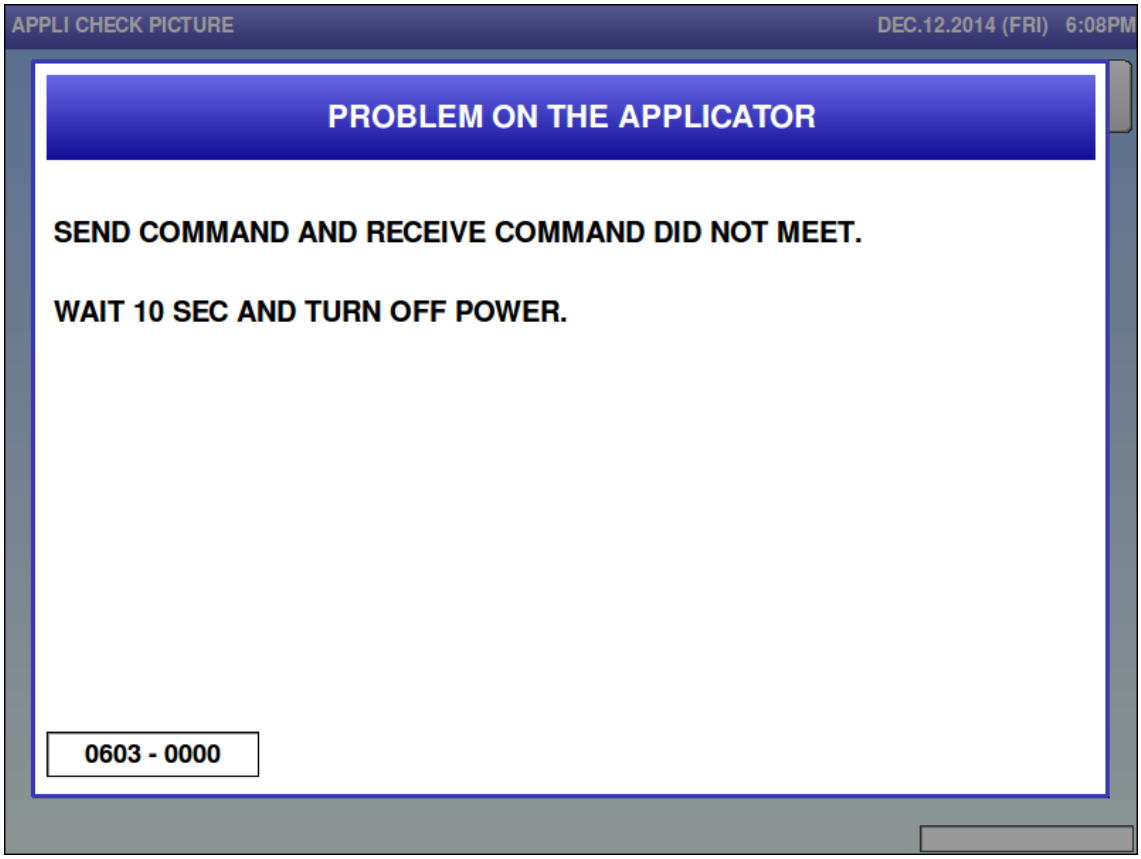
Error content	No connection with applicator.
Detail	・Communication wasn't achieved between the console and the applicator ・Communication phase number is in the sub-error. ・Communication errors after power ON result in this error.
Solution	[STOP] => Cut communication with the applicator. Operate without the applicator. [REEXEC] => Check connection with the applicator. The error is cleared if connection is confirmed.
Action by user	
Action by service representative	
Related part	
Remarks	Operation without the applicator is possible after pressing the [STOP] button.

■ No response from applicator (602)



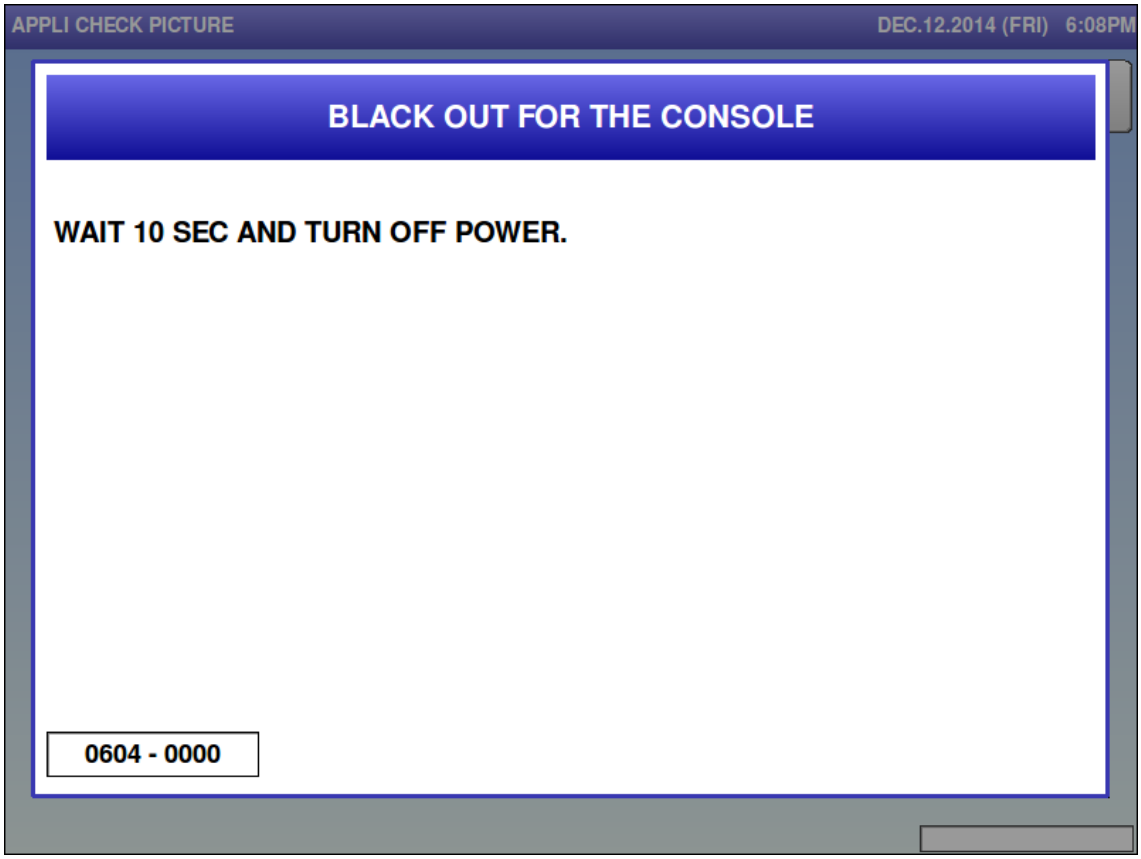
Error content	No response from applicator except for power-on notification.
Detail	・Communication wasn't achieved between the console and the applicator ・Communication phase number is in the sub-error. ・Communication errors after power ON result in this error...
Solution	[STOP] => Cut communication with the applicator. Operate without the applicator. [REEXEC] =>Check connection with the applicator. The error is cleared if connection is confirmed.
Action by user	
Action by service representative	
Related part	
Remarks	Operation without the applicator is possible after pressing the [DTOP] button.

■ Problem on the applicator (603)



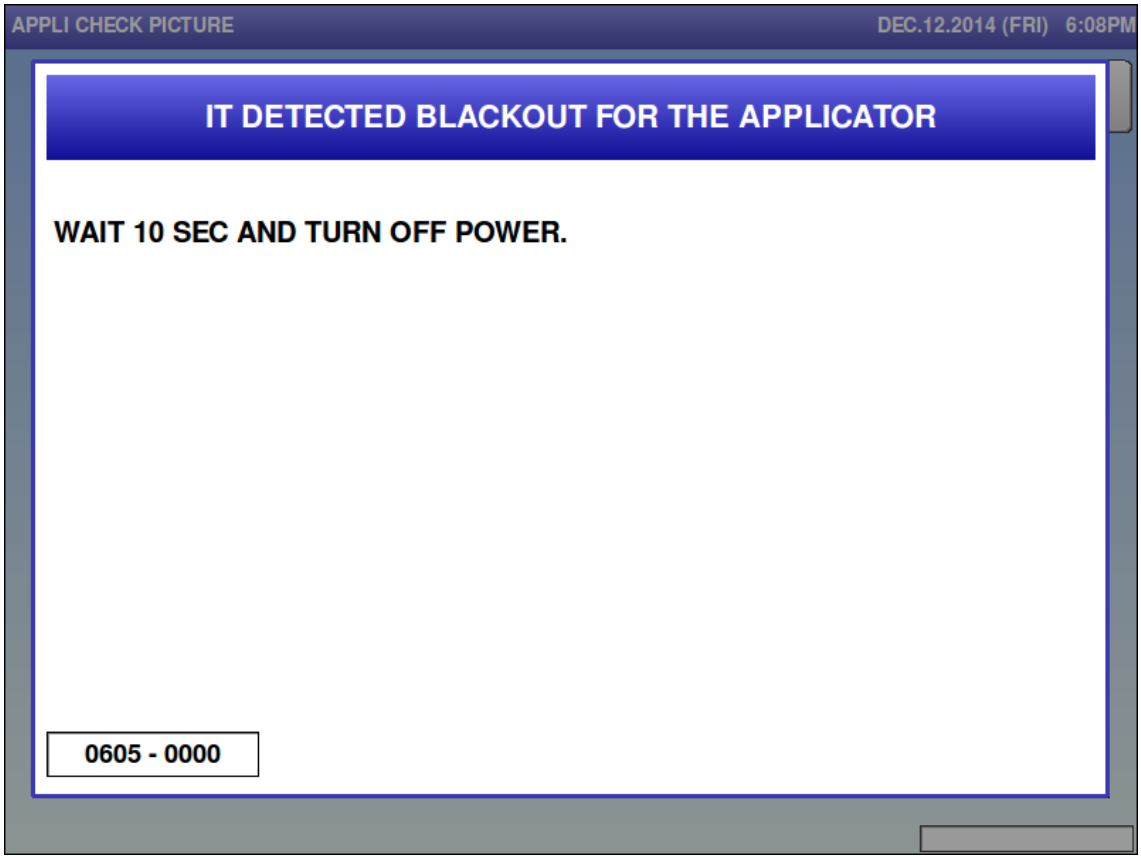
Error content	The command sent to the applicator and the command contained in the answer is different.
Detail	
Solution	Restore power
Action by user	
Action by service representative	
Related part	
Remarks	

■ Blackout for the console (604)



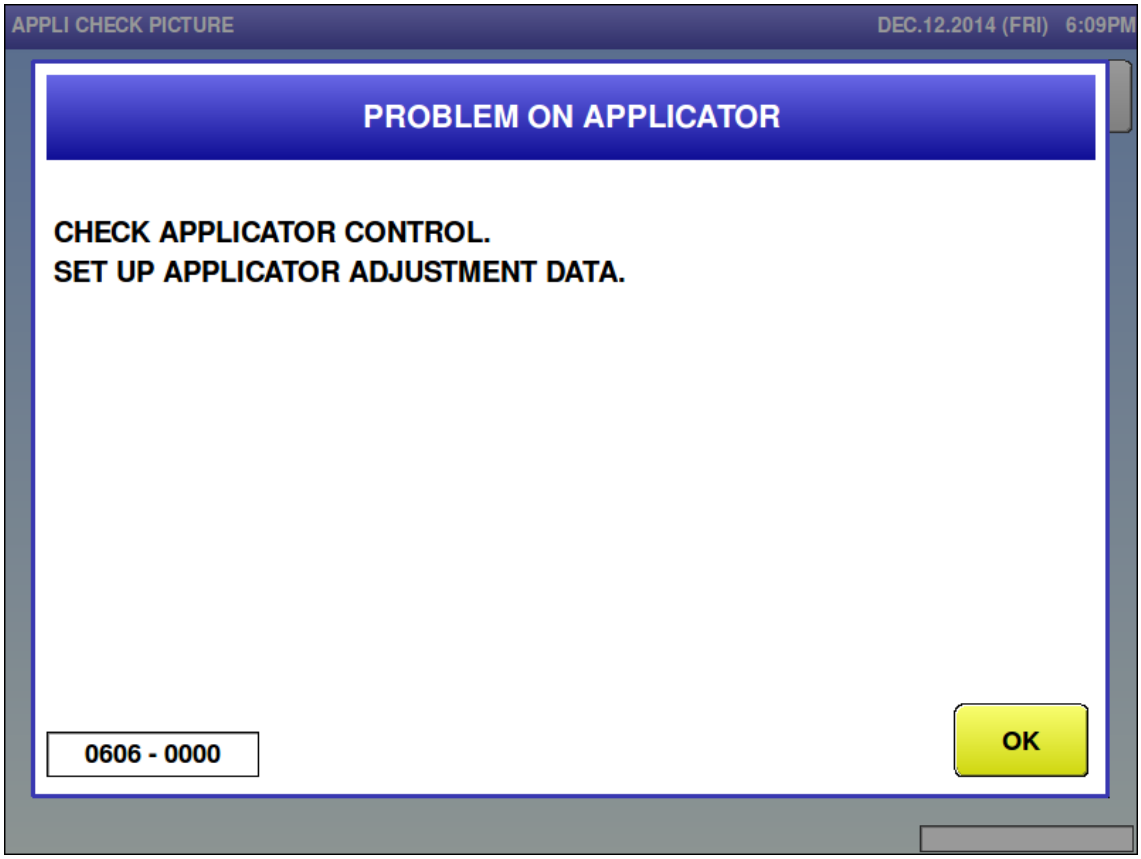
Error content	Power failure detected in the applicator
Detail	Power ON notification command was received twice from the console.
Solution	Restore power
Action by user	
Action by service representative	
Related part	① 24VDC to the power supply (XJ12) of P-1105 [A100] ② RS485 communication cable between main boards (P-1100, P-1163, P-1000) [A10] and P-1105 [A100]
Remarks	

■ It detected blackout for the applicator (605)



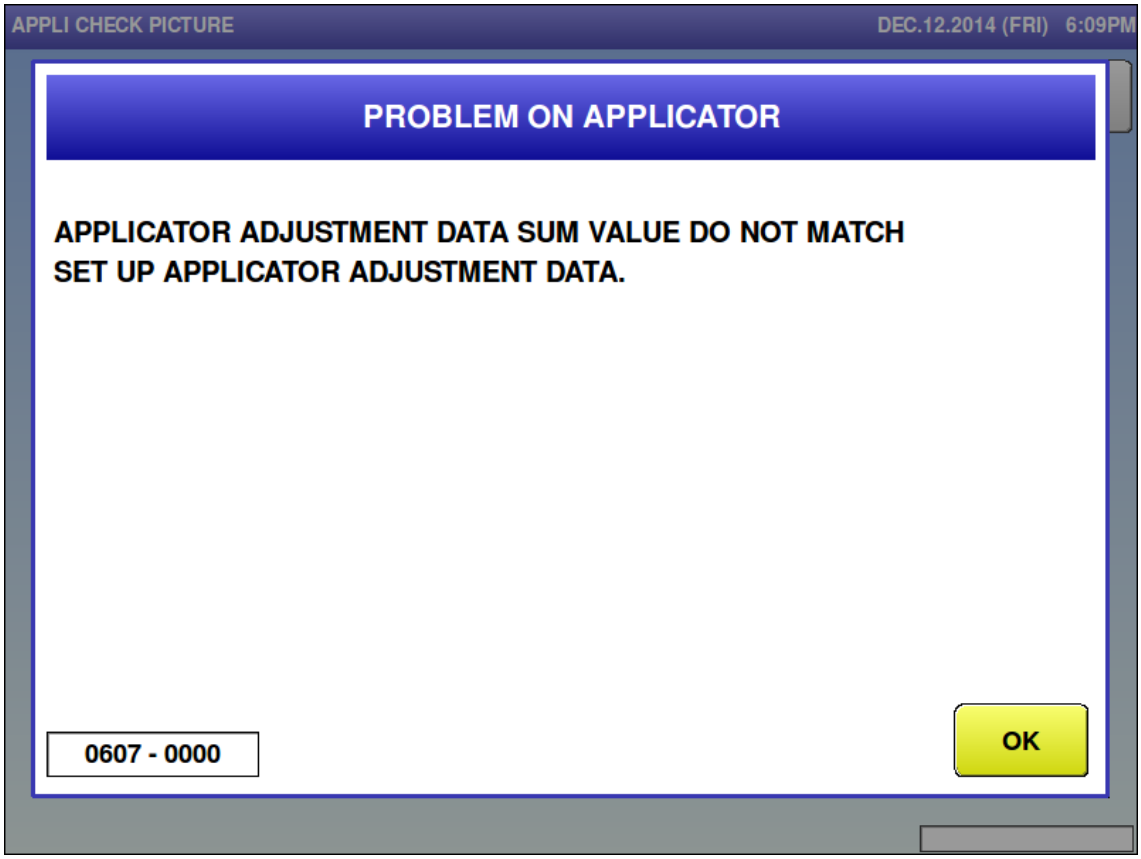
Error content	Applicator CPU was reset.
Detail	Before receiving the acknowledge power ON command, the applicator received a different command
Solution	Restore power
Action by user	
Action by service representative	
Related part	① 24VDC to the power supply (XJ12) of P-1105 [A100] ② RS485 communication cable between main boards (P-1100, P-1163, P-1000) [A10] and P-1105 [A100]
Remarks	

■ Problem on the applicator (606)



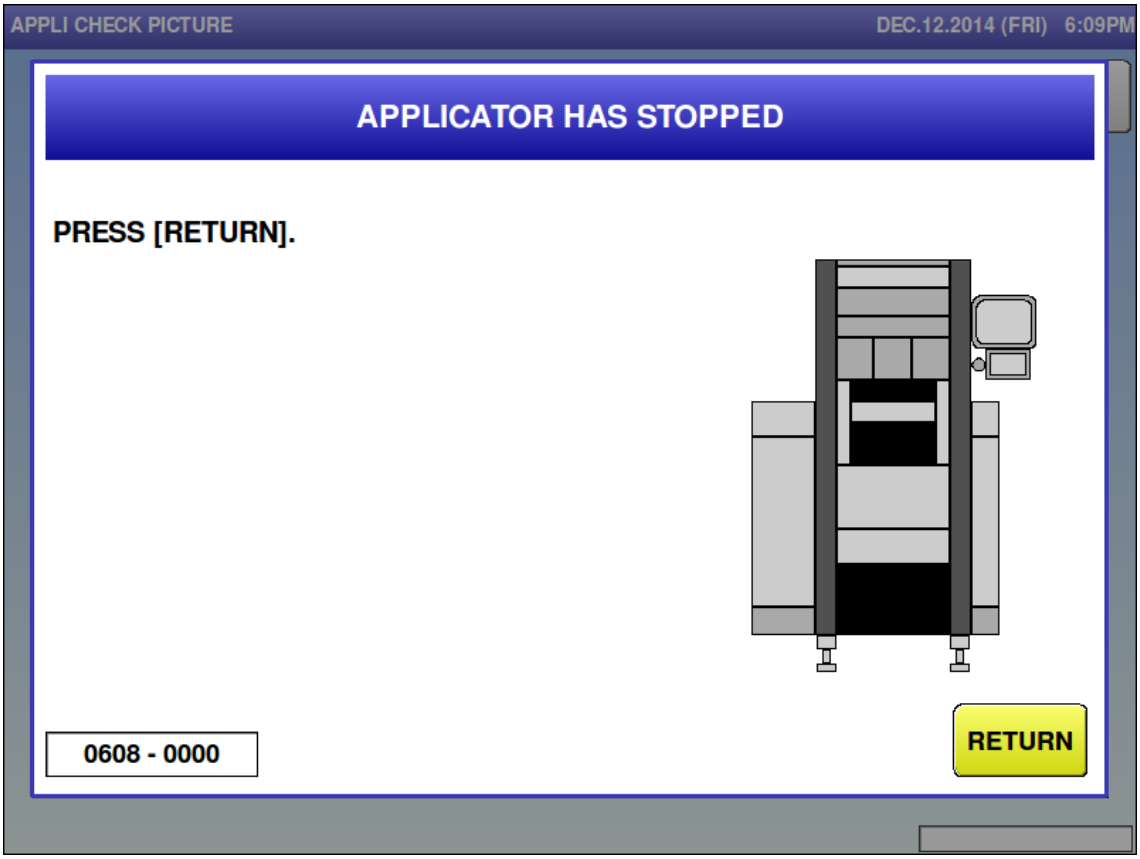
Error content	Applicator alignment data has not been set
Detail	
Solution	Press the [OK] button; initialize the applicator for the adjustment.
Action by user	
Action by service representative	
Related part	
Remarks	

■ Problem on applicator (607)



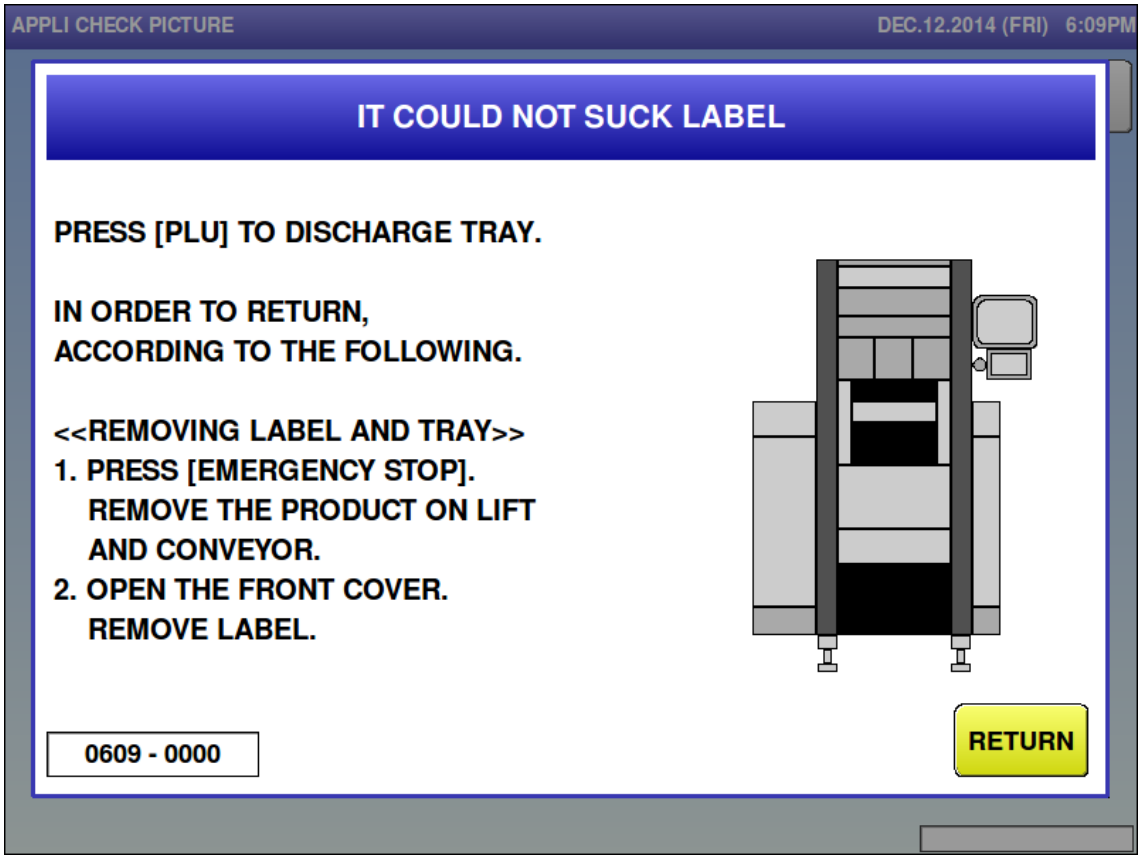
Error content	Applicator data checksum value is abnormal
Detail	
Solution	Press the [OK] button and adjust the applicator.
Action by user	
Action by service representative	
Related part	
Remarks	

■ Applicator has stopped (608)



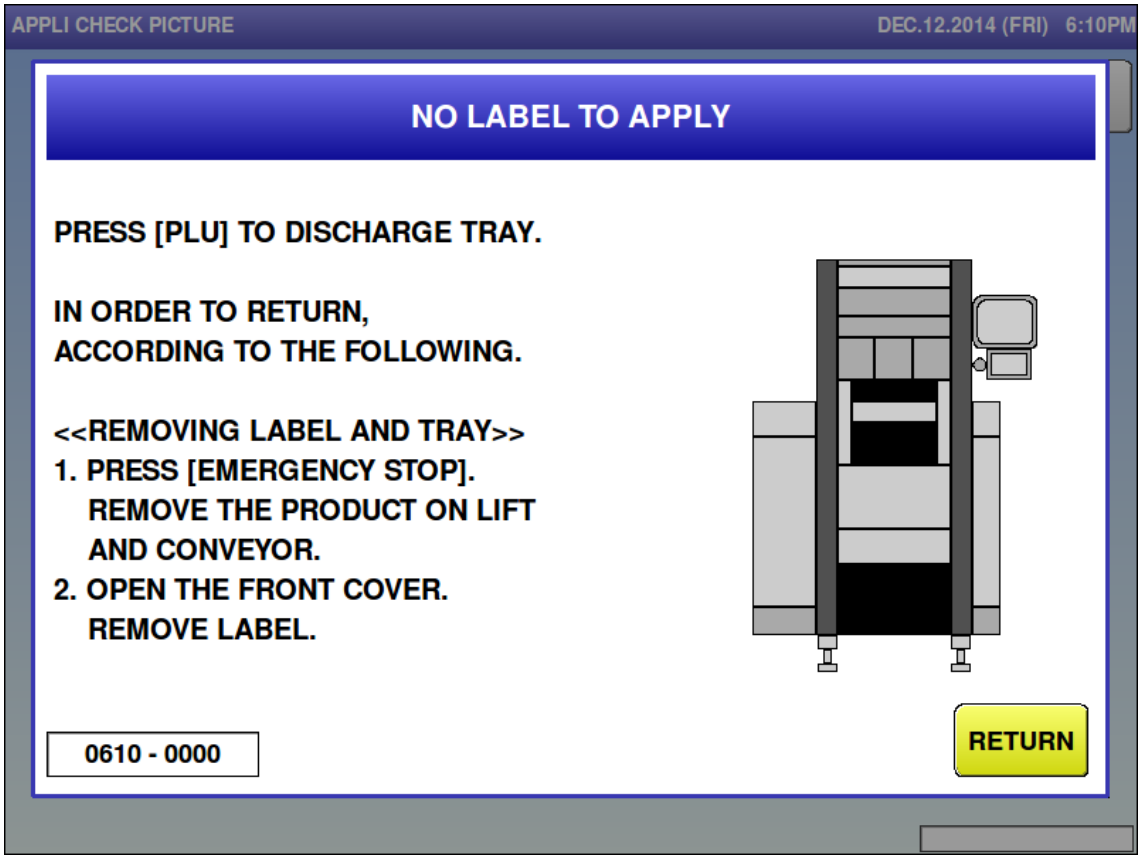
Error content	Applicator has stopped.
Detail	The emergency stop switch was used during applicator operation
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	
Remarks	

■ It could not suck label (609)



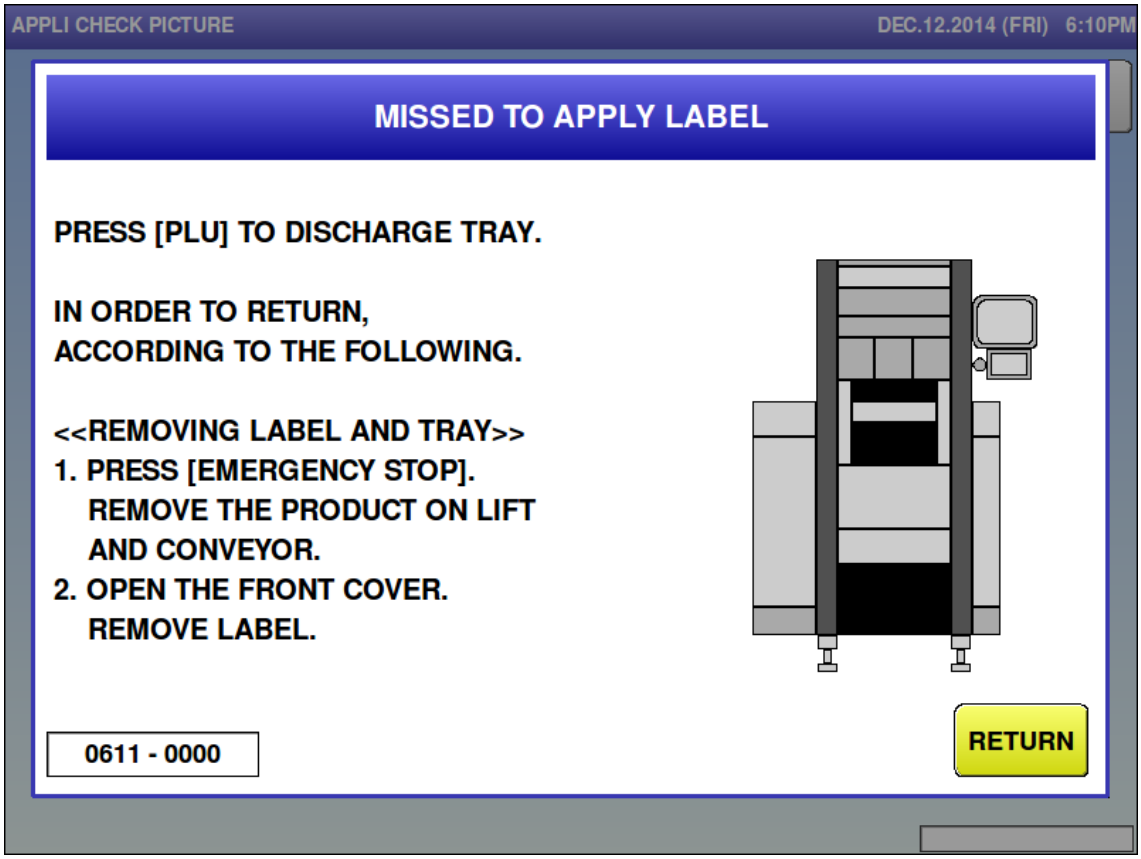
Error content	Applicator failed in label application.
Detail	Sub-error meanings are as follows: 0000: Applicator failed in labeled absorption.
Solution	Use either (1) or (2) to clear the error. ① [RETURN] button ② [PLU] button
Action by user	Clean up the label presence sensor.
Action by service representative	Clean up the label presence sensor. Adjust the issue position by printing adjustment. Adjust the suction position on the printer adjustment screen.
Related part	① P-1105 [A100] ② P-1006 [A101] ③ Label presence [B116] ④ Label suction fan [M107]
Remarks	

■ No label to apply (610)



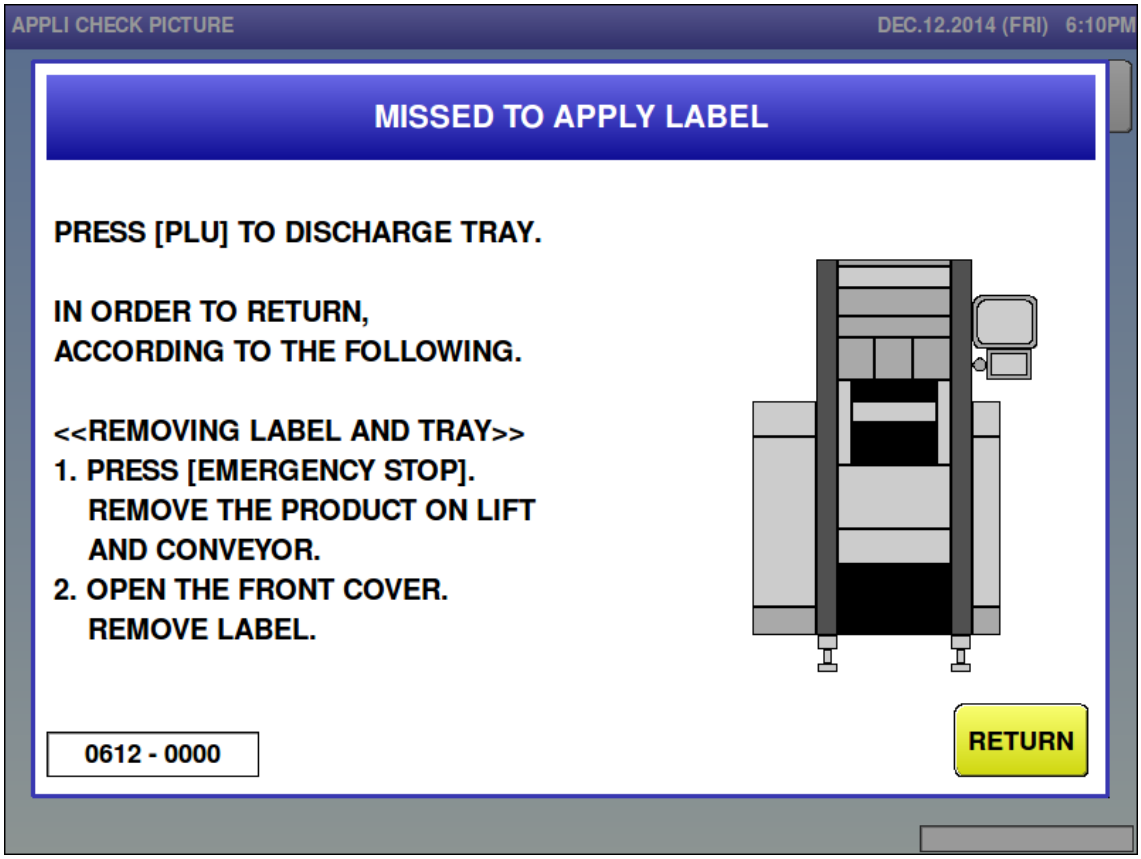
Error content	No label to apply
Detail	There was no label when application was attempted Sub-error meanings are as follows: 0000: Applicator failed in labeled absorption.
Solution	[RETURN] button
Action by user	Clean up the label presence sensor
Action by service representative	Clean up the label presence sensor
Related part	① P-1105 [A100] ② P-1006 [A101] ③ Label presence [B116] ④ Label suction fan [M107]
Remarks	

■ Missed to apply label (611)



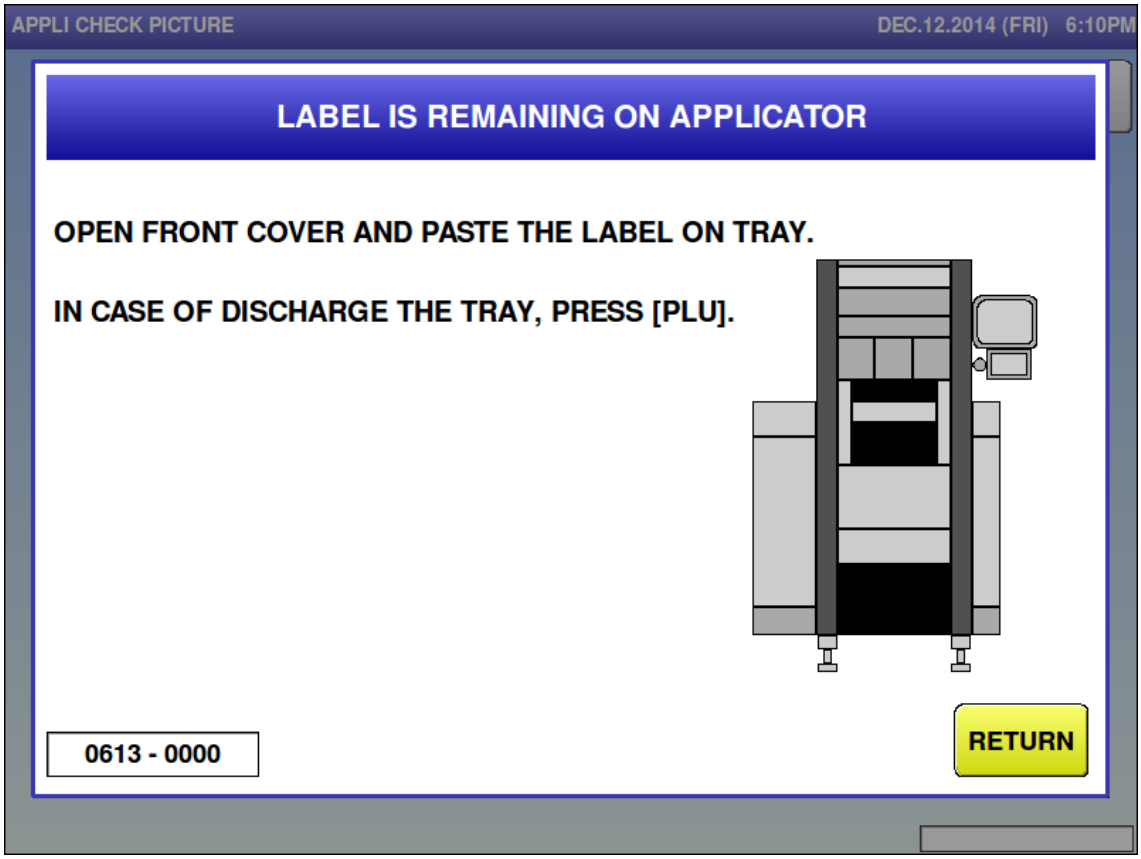
Error content	Missed to apply label.
Detail	Sub-error meanings are as follows: 0000: Pasting preparation was not completed when pasting time was run out. 0001: Previous pasting was not completed when pasting timing signal was received. 0002: The tray height message was not received when the pasting timing signal was received.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	
Remarks	

■ Missed to apply label (612)



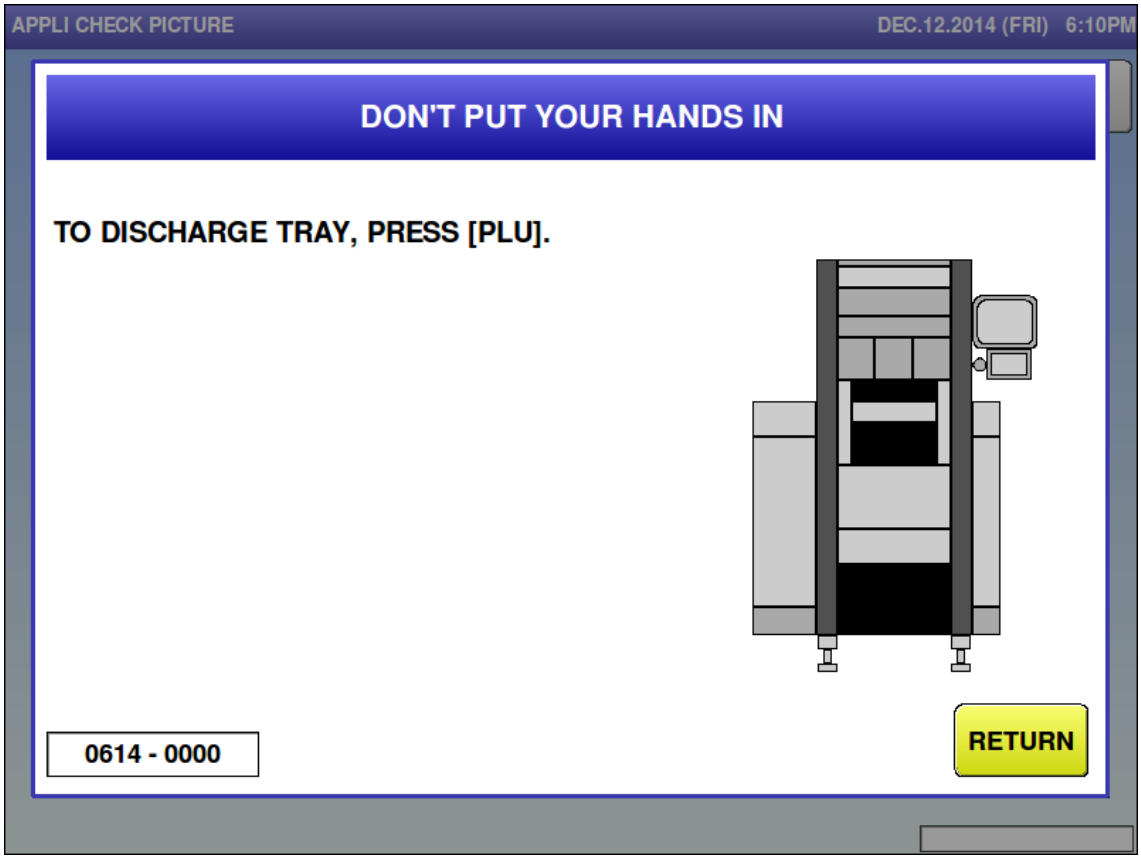
Error content	Missed to apply label.
Detail	Pasting timing signal was not received.
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	
Remarks	

■ Label is remaining on applicator (613)



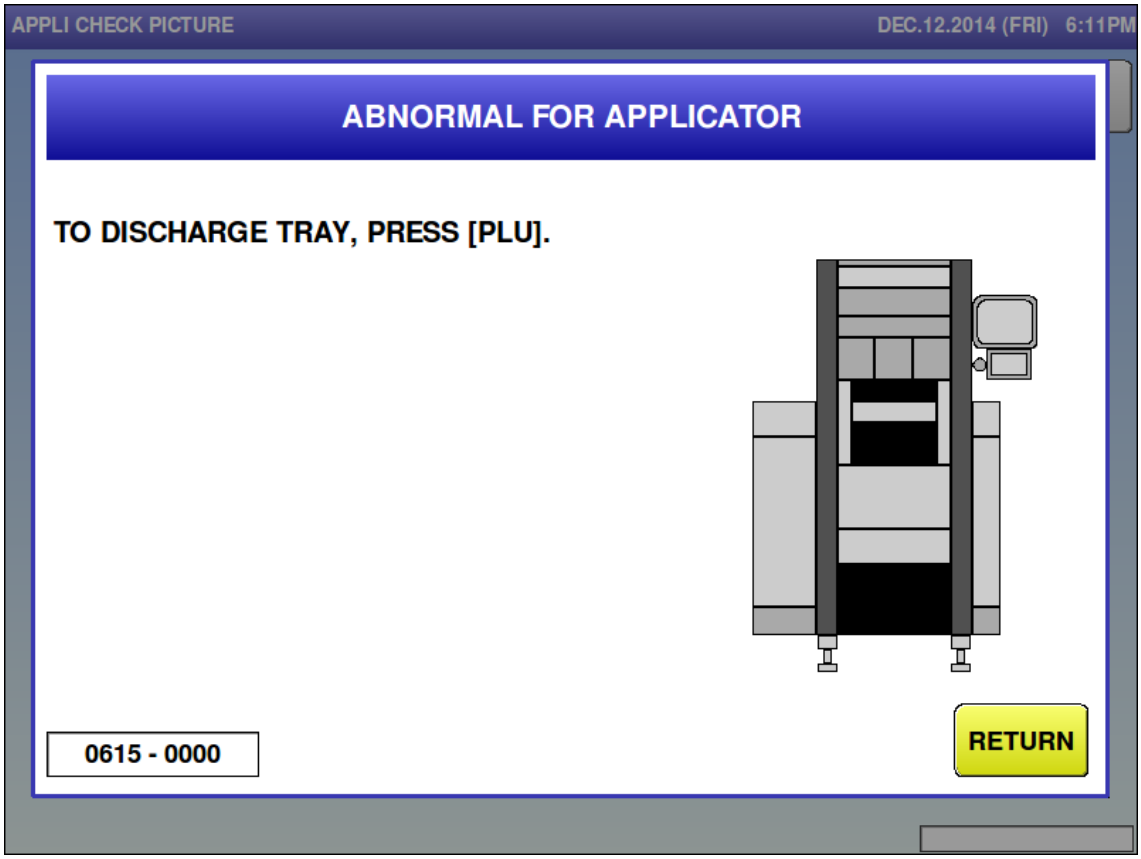
Error content	Label is remaining on applicator.
Detail	A label remains on the applicator after application
Solution	Press the [RETURN] button after removing the label
Action by user	Check if the tray height setting matches the actual height.
Action by service representative	Check the pasting height adjustment value if the printing control setting of the printer in adjustment mode is tray height.
Related part	
Remarks	

■ Don’t put your hands in (614)



Error content	A hand was put inside the front cover.
Detail	The applicator safety switch did not receive light during applicator operation...
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	Hand insertion in the front cover (light receiving/emitting) [B107]
Remarks	

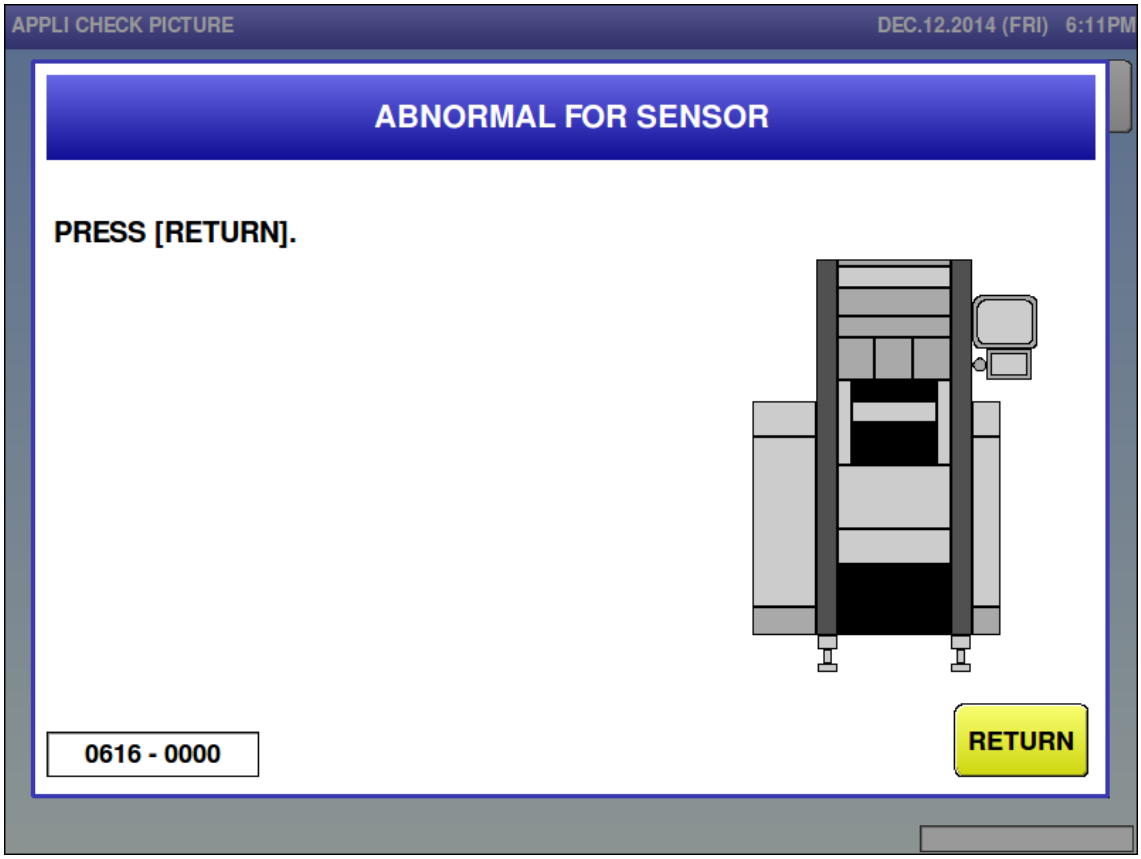
■ Abnormal for applicator (615)



Error content	Abnormal for applicator
Detail	Operation was not completed within the set time. Sub-error meanings are as follows: 000*: X axis(* = 0: moving left, 1: moving right) 001*: Y axis(* = 0: moving forward, 1: moving backward) 002*: Z axis(* = 0: moving up, 1: moving down) 003*: θ axis(* = 0: rotating to right, 1: rotating to left) 013*: θ axis(* = 0: rotating to right, 1: rotating to left) In case that a sensor event does not occur after the set time, while operating corrections. 0100: Absorption was expected to be done by printer No.1, however, the applicator was moved in front of printer No.2. 0101: Absorption was expected to be done by printer No.2, however, the applicator was moved in front of printer No.1.
Solution	[RETURN] button
Action by user	Check if the printer can be moved smoothly with hands with the emergency stop switched pressed.
Action by service representative	Check the grease condition.
Related part	<X axis> ① P-1105 [A100] ② P-1006 [A102] ③ X-axis motor [M103] ④ X-axis origin point [B108]

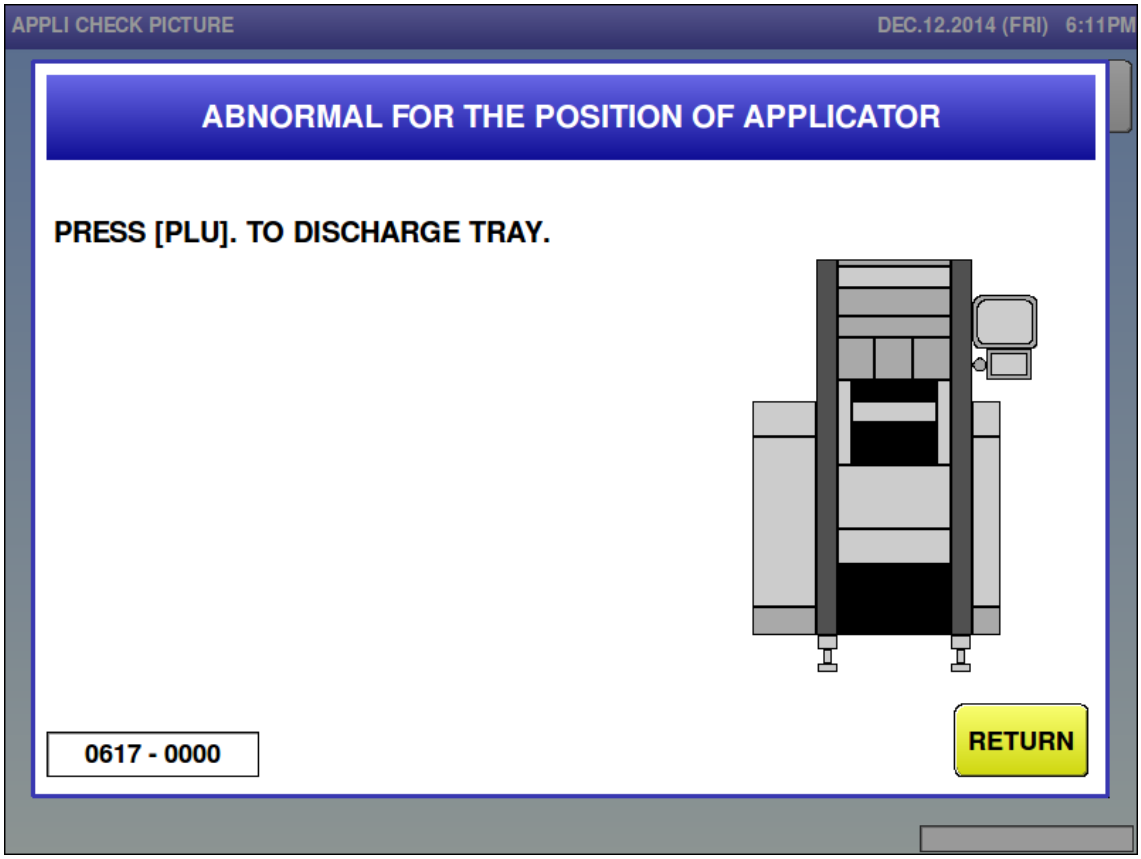
	⑤ Printer No.1 position [B109] ⑥ Printer No.2 position [B110] <Y axis> ① P-1105 [A100] ② P-1006 [A101] ③ Y-axis motor [M104] ④ Y-axis origin point [B111] <Z axis> ① P-1105 [A100] ② P-1006 [A101], [A102] ③ Z-axis motor [M105] ④ Z-axis origin point [B112] <θ axis> ① P-1105 [A100] ② P-1006 [A101] ③ θ-axis motor [M106] ④ Below θ-axis detection board [B113] ⑤ Above θ-axis detection board [B114]
Remarks	

■ Abnormal for sensor (616)



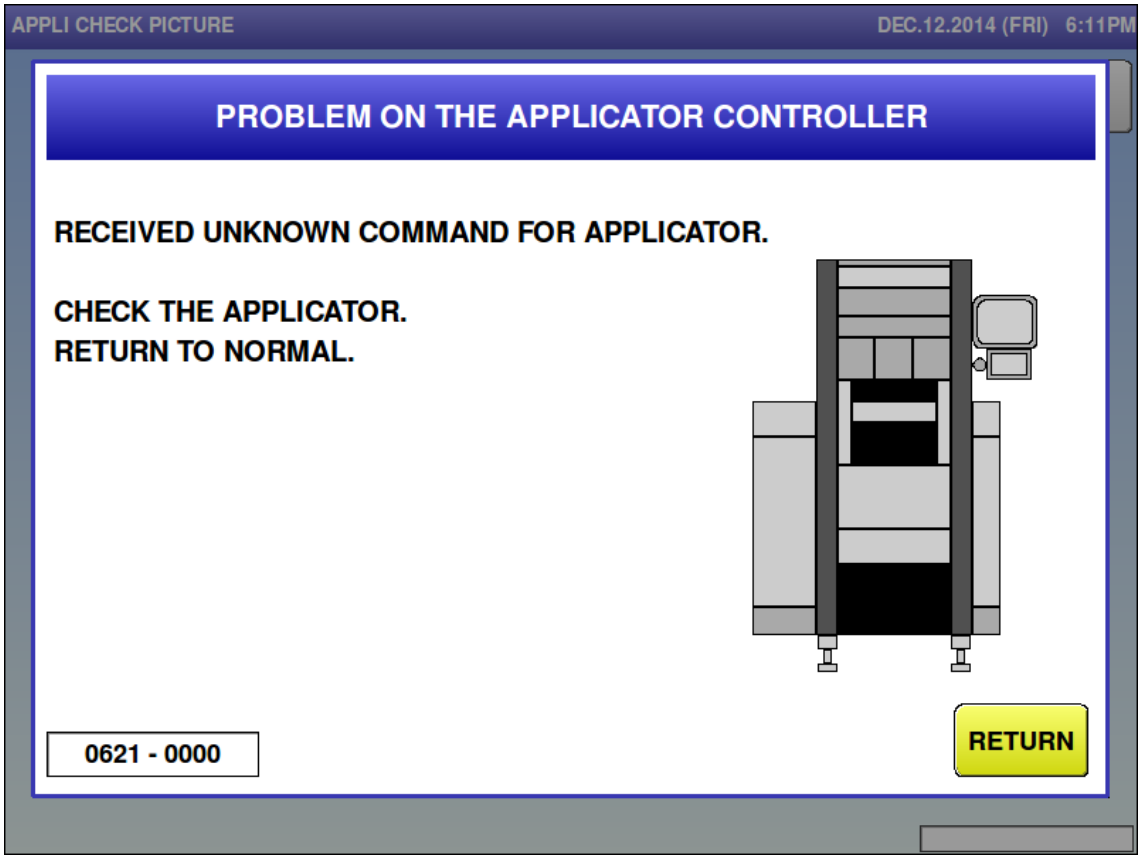
Error content	Abnormal for sensor
Detail	A sensor that does not have light blocked is blocked from light. Sub-error meanings are as follows: 0000: X axis
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	① X-axis origin point [B108] ③ Printer No.1 position [B109] ④ Printer No.2 position [B110]
Remarks	

■ Abnormal for the position of applicator (617)



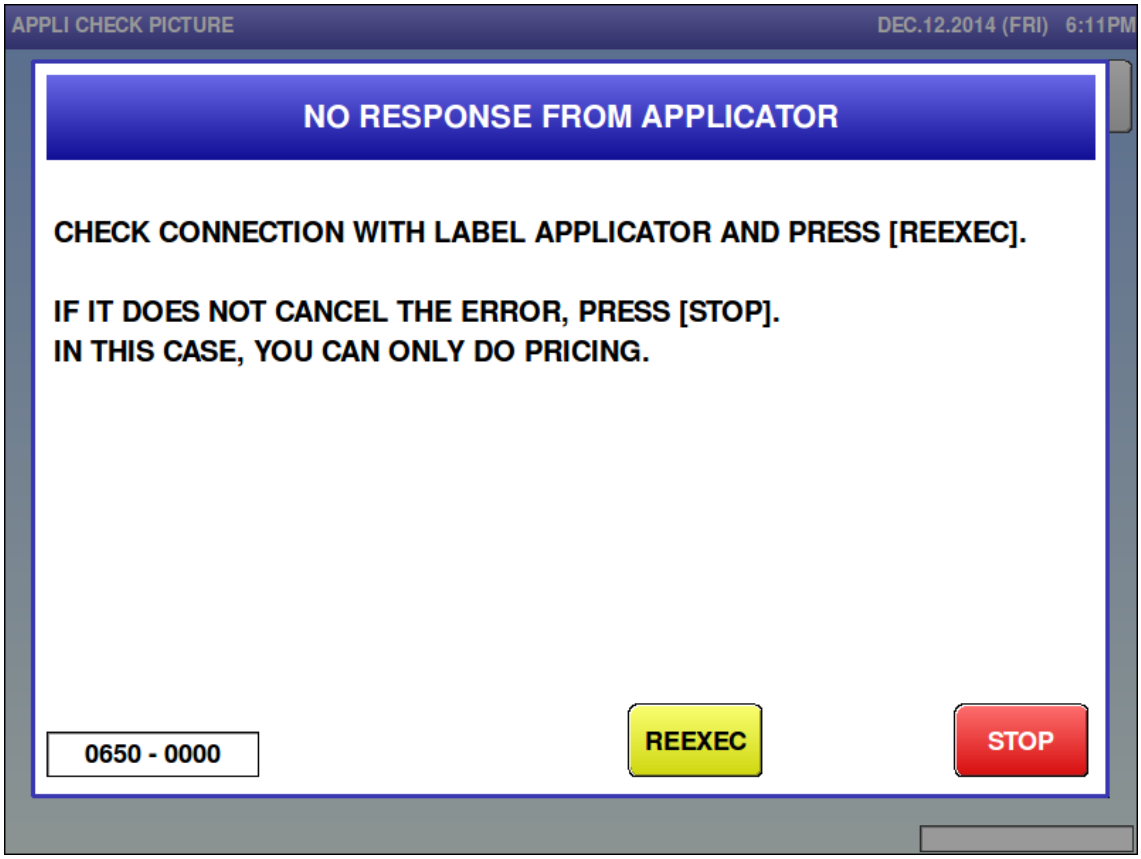
Error content	Abnormal for the position of applicator.
Detail	The original point sensor of Y axis was not blocked from light when applicator attempted to start operation.
Solution	[RETURN] button, [PLU] button
Action by user	
Action by service representative	
Related part	① Y-axis motor [M104] ② Y-axis origin point [B111]
Remarks	

■ Problem on the applicator controller (621)



Error content	The applicator is not responding to the command received from the console
Detail	
Solution	[RETURN] button
Action by user	
Action by service representative	
Related part	
Remarks	Check the main software and applicator software versions and confirm the combination is compatible.

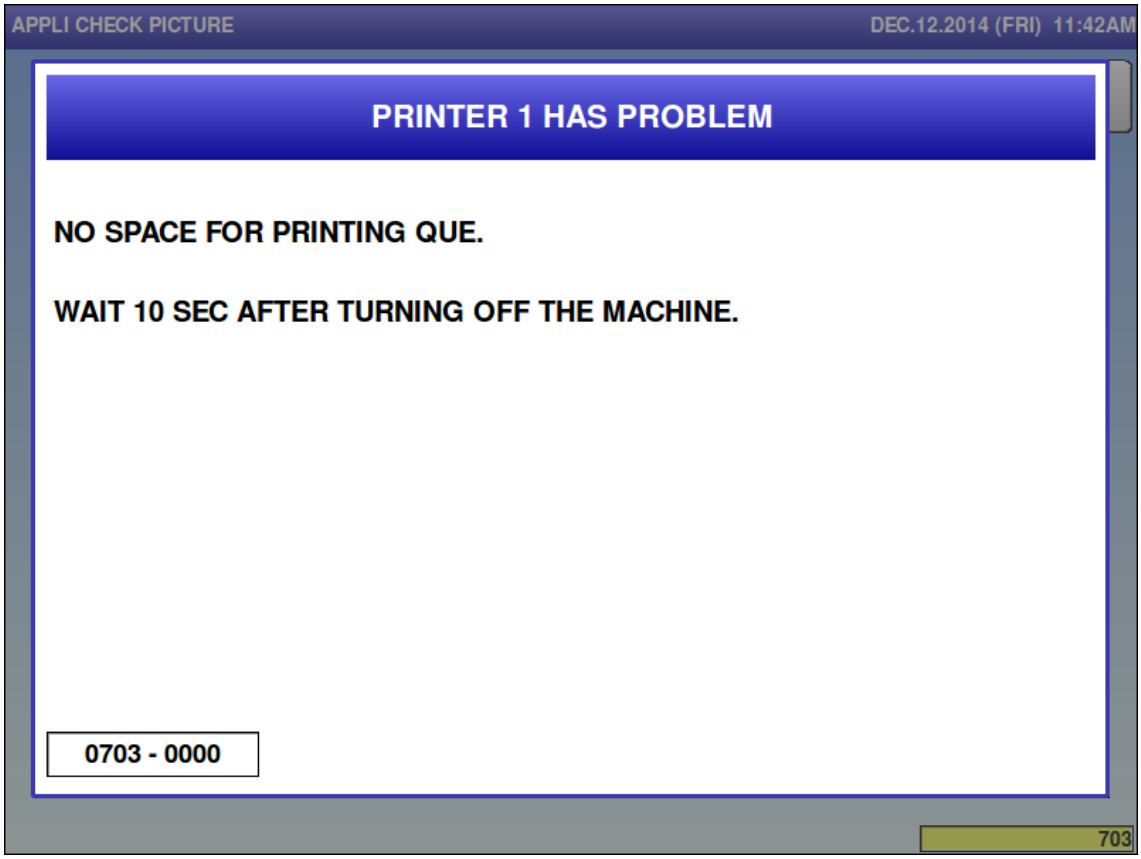
■ No response from applicator (650)



Error content	No response from applicator except for power-on notification
Detail	・Communication wasn't achieved between the console and the applicator ・Communication phase number is in the sub-error. ・Communication errors after power ON result in this error...
Solution	[STOP]=> Cut communication with the applicator. Operate without the applicator. [REEXEC] => Check connection with the applicator. The error is cleared if connection is confirmed.
Action by user	
Action by service representative	
Related part	
Remarks	Operation without the applicator is possible after pressing the [STOP] button.

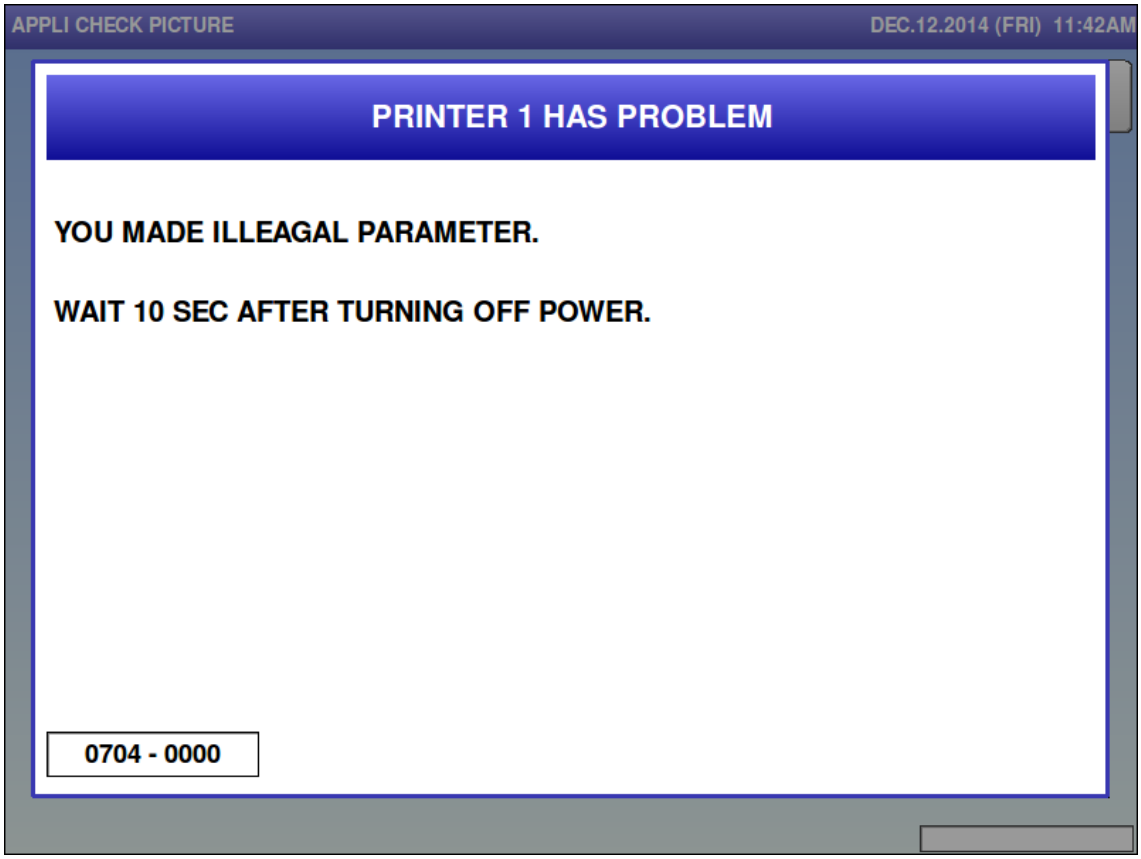
6.3.6 Printer-related Error (No. 700s to 900s, 1300s, 1500s, 1600s, 1800s)

■ Printer 1 has problem (703, 803)



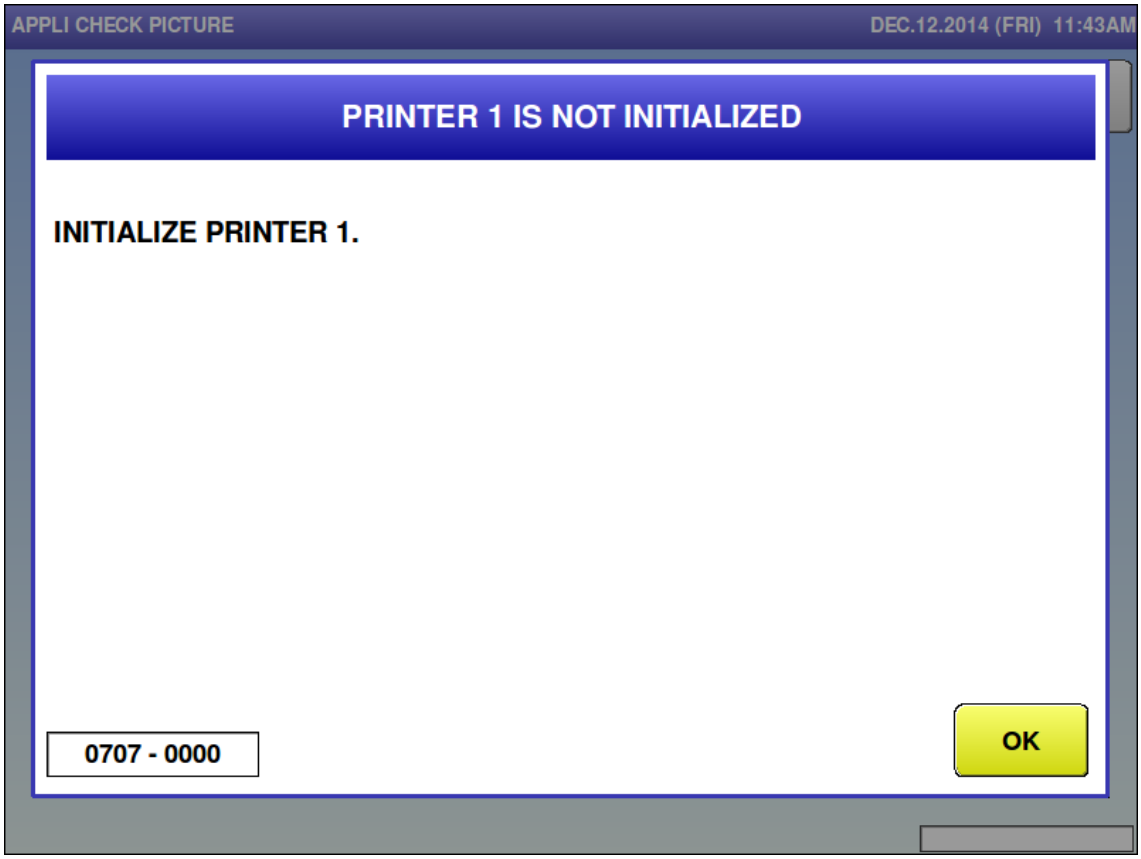
Error content	Printer system error
Detail	The print queue in main program has error.
Solution	Restore power.
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

■ .Printer 1 has problem (704, 804)



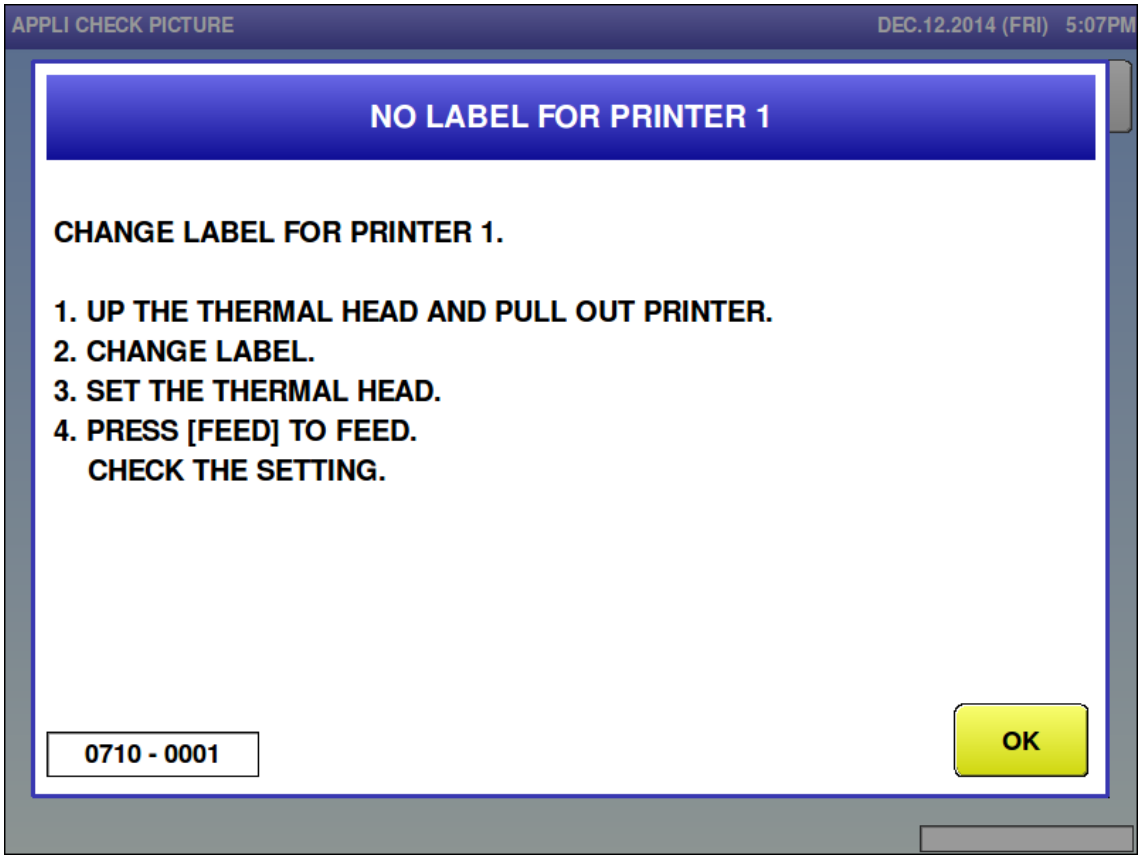
Error content	Printer system error
Detail	Processed an invalid parameter.
Solution	Restore power.
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

■ Printer1 is not initialized (707, 807)



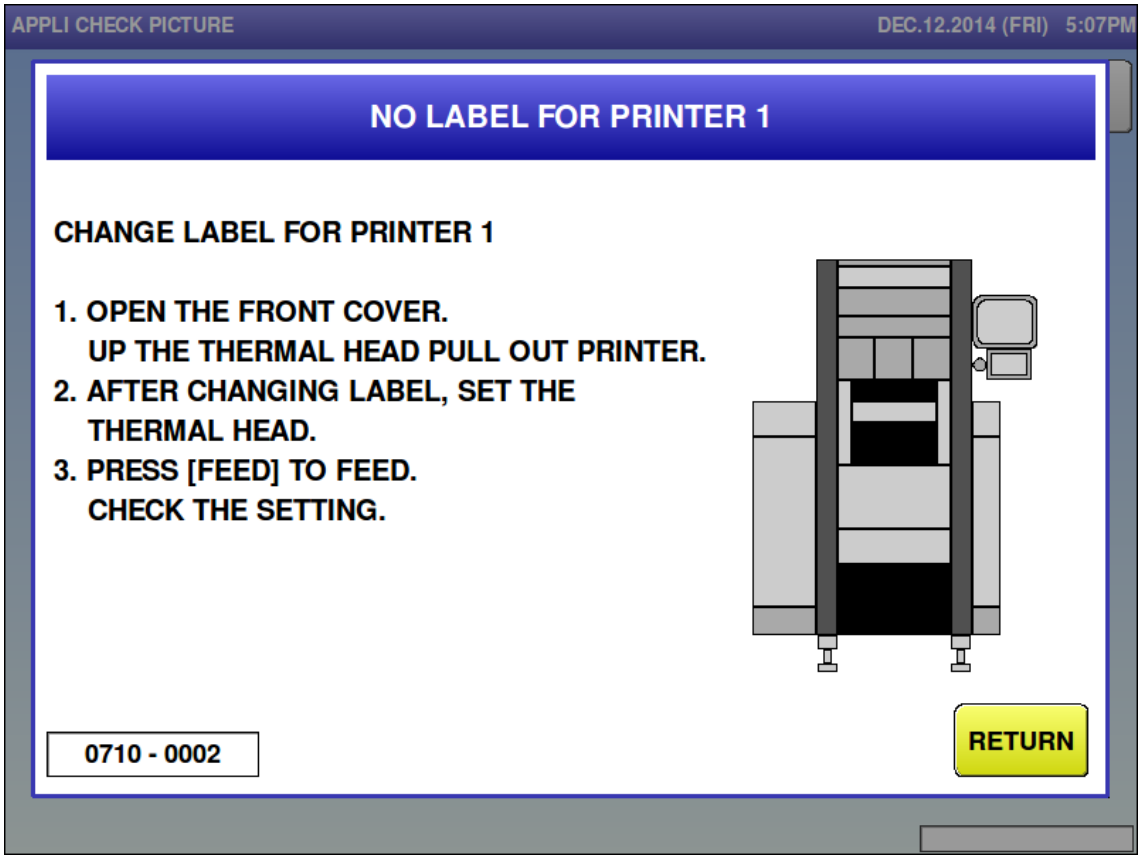
Error content	The printer is not initialized.
Detail	Incomplete printer initialization.
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	・“Printer No.1” changes depending on error No. ・Printer unit memory needs to be initialized on the [ADJUST (PRINTER)] screen.

■ No label for printer1 (710-0001, 810-0001)



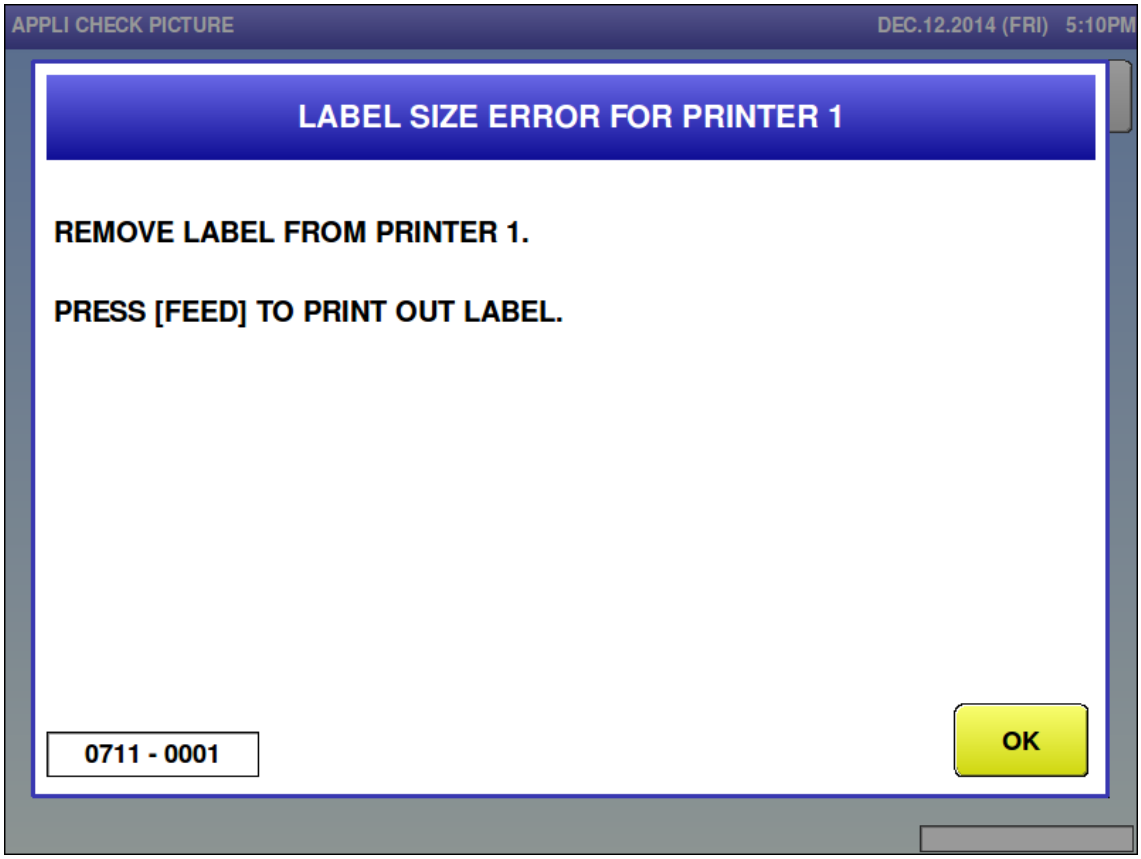
Error content	Printer label finished.
Detail	Message indicates that labeling issue is completed in DP mode.
Solution	Press the [OK] button after replacing the label, then performing unloaded feed.
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

■ No label for printer1 (710-0002, 810-0002)



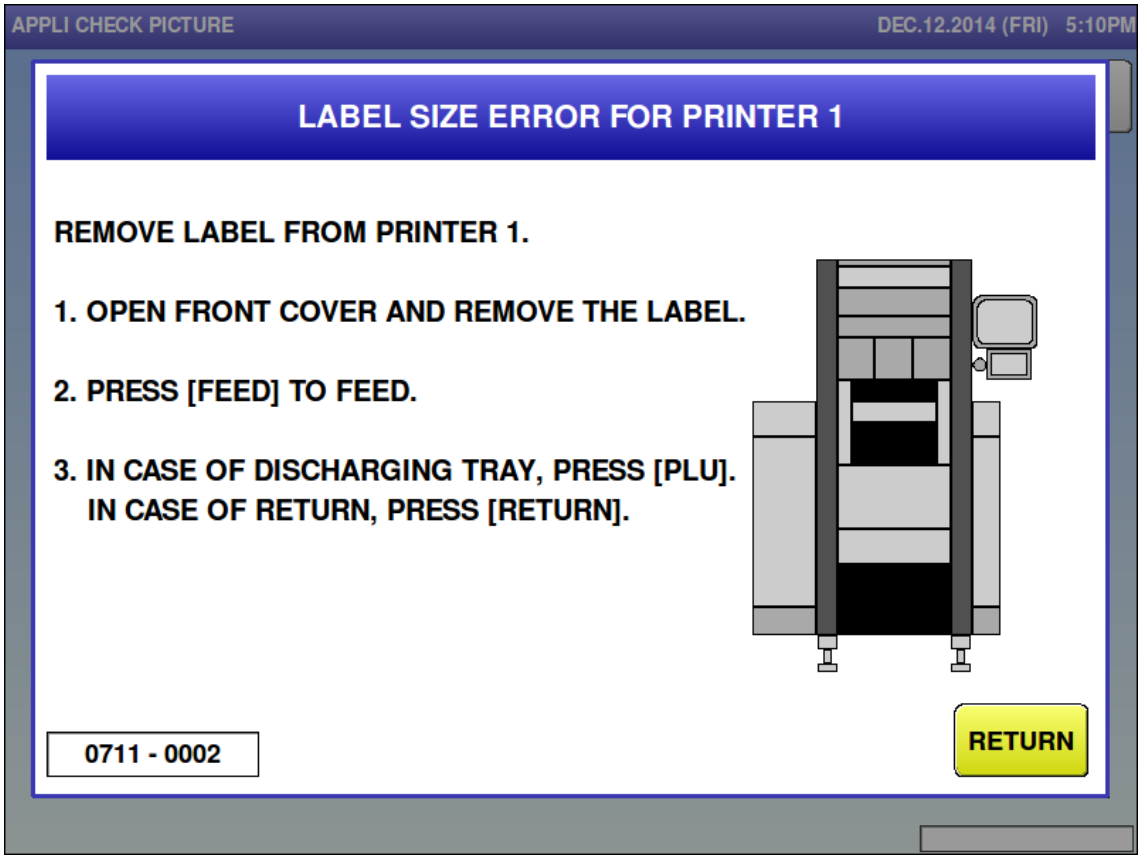
Error content	Printer label finished.
Detail	Message indicates that labeling issue is completed in DP mode, and closing the front cover.
Solution	Replace the label by performing unloaded feed, close the front cover, then press the [RETURN] button or the [PLU] button.
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

■ Label size error for printer1 (711-0001, 811-0001)



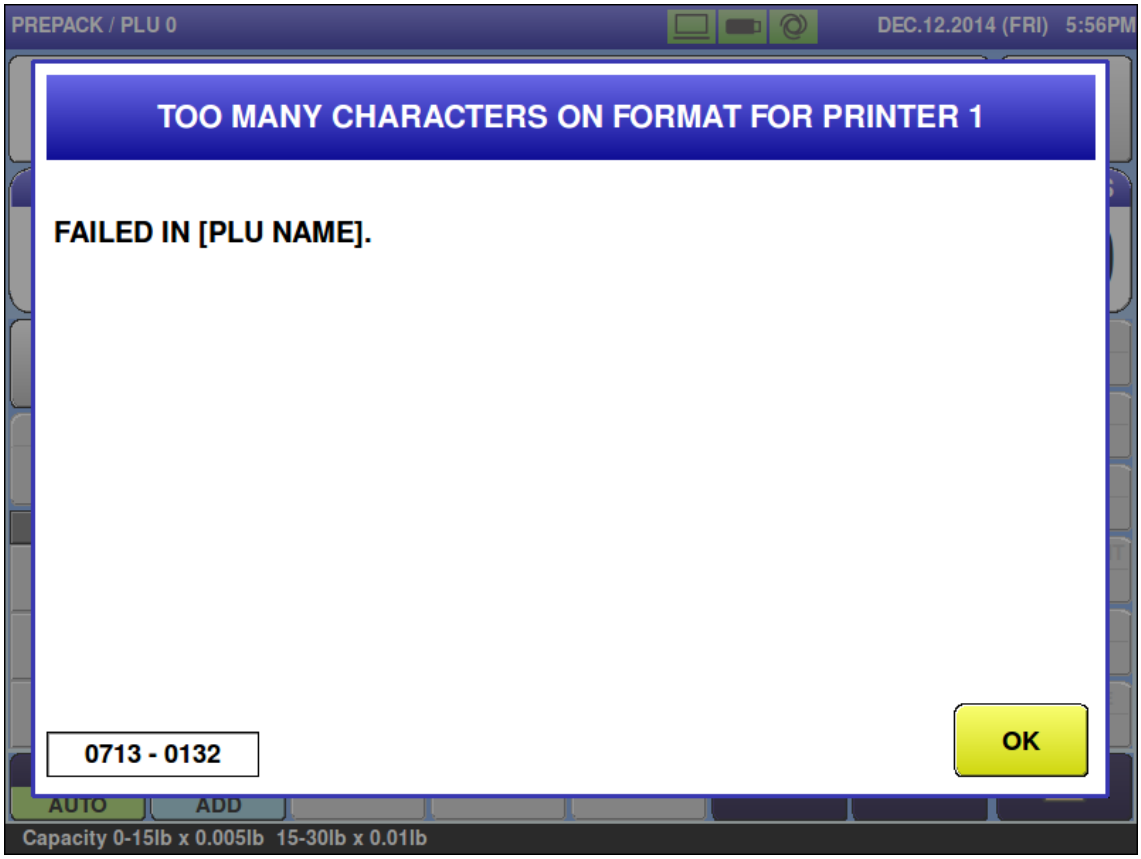
Error content	Label size error for printer1
Detail	Error indicates that the format size of producing label in DP mode is different from actual label size.
Solution	Press the [OK] button after removing label by performing the unloaded feed.
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No. Check the format of label to be printed.

■ Label size error for printer1 (711-0002, 811-0002)



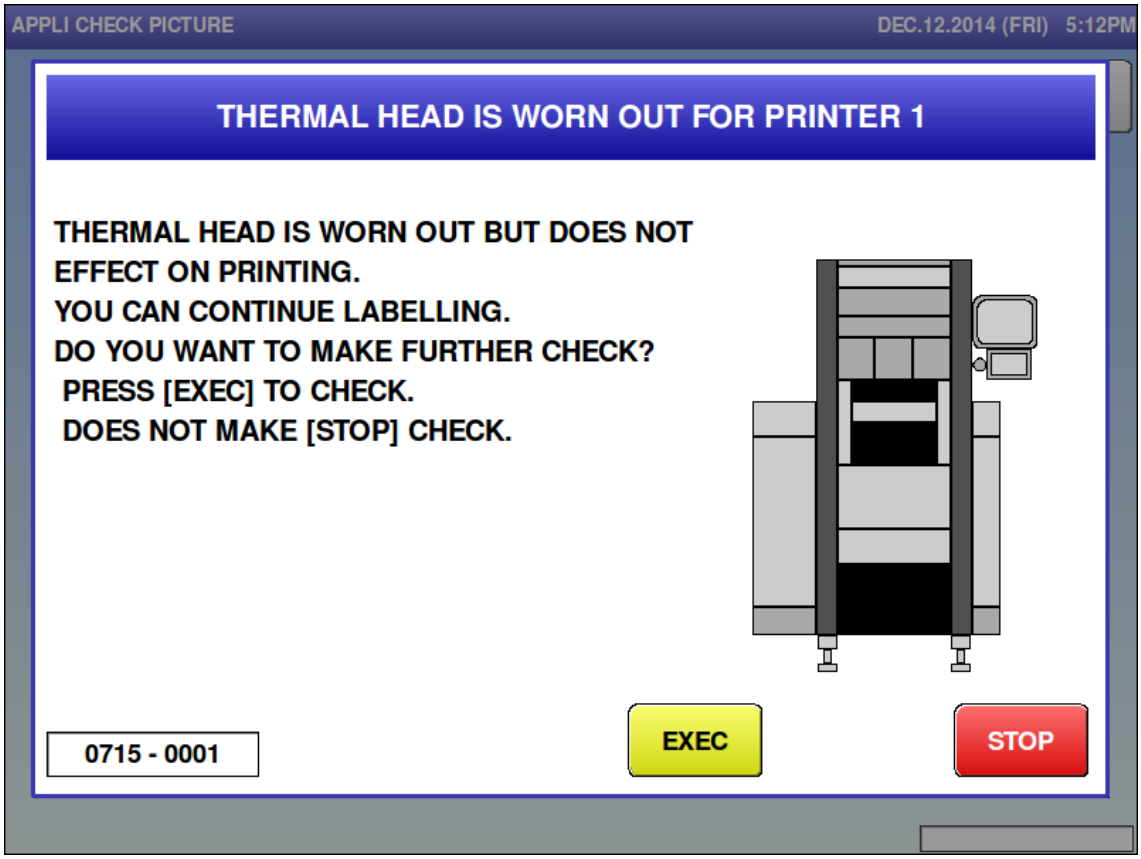
Error content	Printer label size error.
Detail	Error indicates that the format size of producing label is different from actual label size when the front cover is closed.
Solution	Remove the label by performing unloaded feed, close the front cover, then press the [RETURN] button or the [PLU] button.
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No. Check the format of label to be printed.

■ Too many characters on format for printer 1 (713, 813)



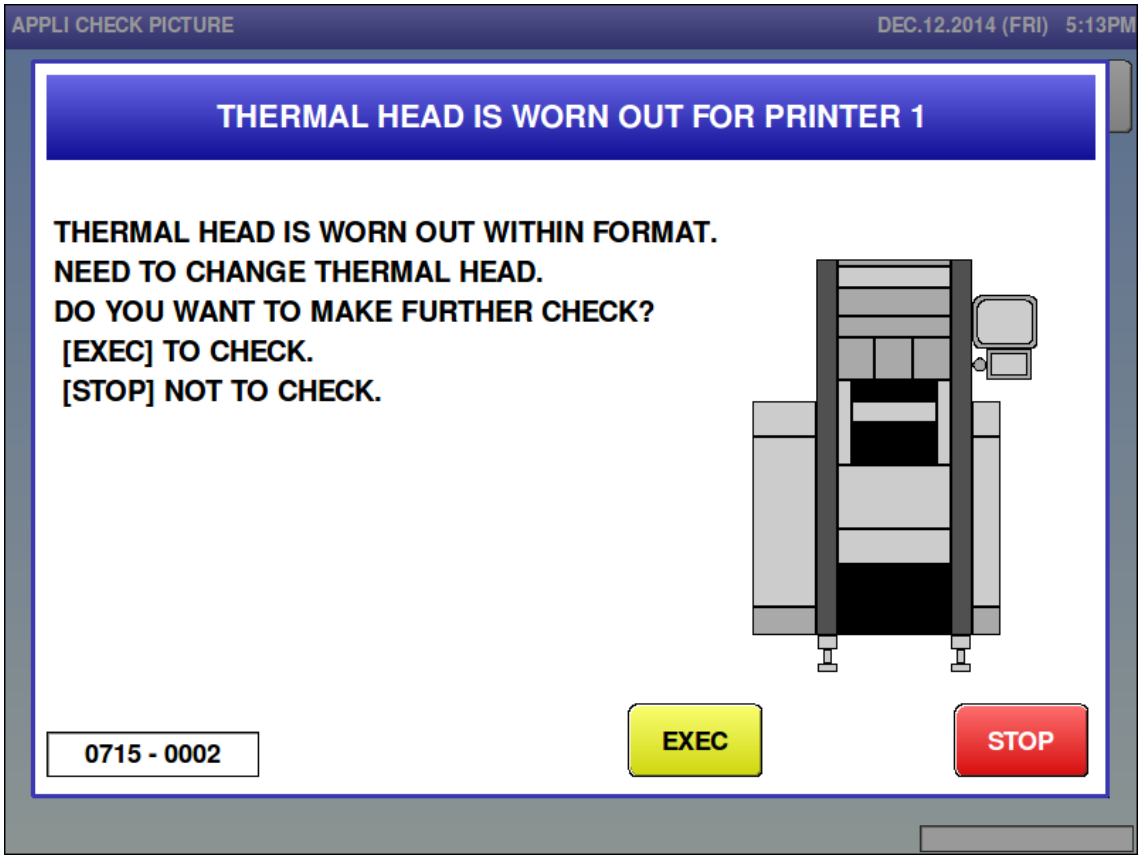
Error content	Too many characters on format for printer 1
Detail	Expanded printing error information is added to the sub-error No.
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	・“Printer No.1” changes depending on error No. ・Expanded printing error information is displayed

■ Thermal head is worn out for printer 1 (715-0001, 815-0001)



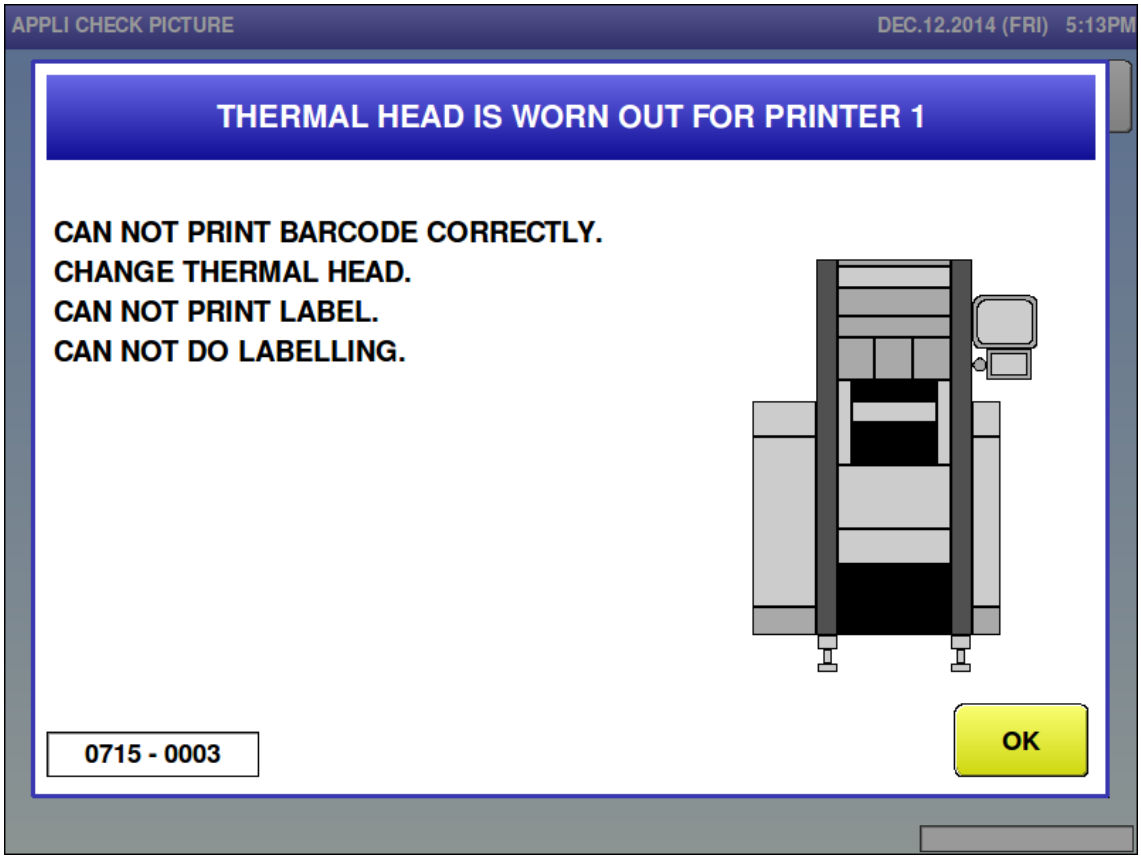
Error content	Thermal head is worn out for printer 1
Detail	Affected content is separated by sub-error No. 0001: The portion that as run out has no effect on printing
Solution	[EXEC] button, [STOP] button [EXEC] : Head check is performed to the next product [STOP] ; Head check is not performed to the next product.
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

■ Thermal head is worn out for printer 1 (715-0002, 815-0002)



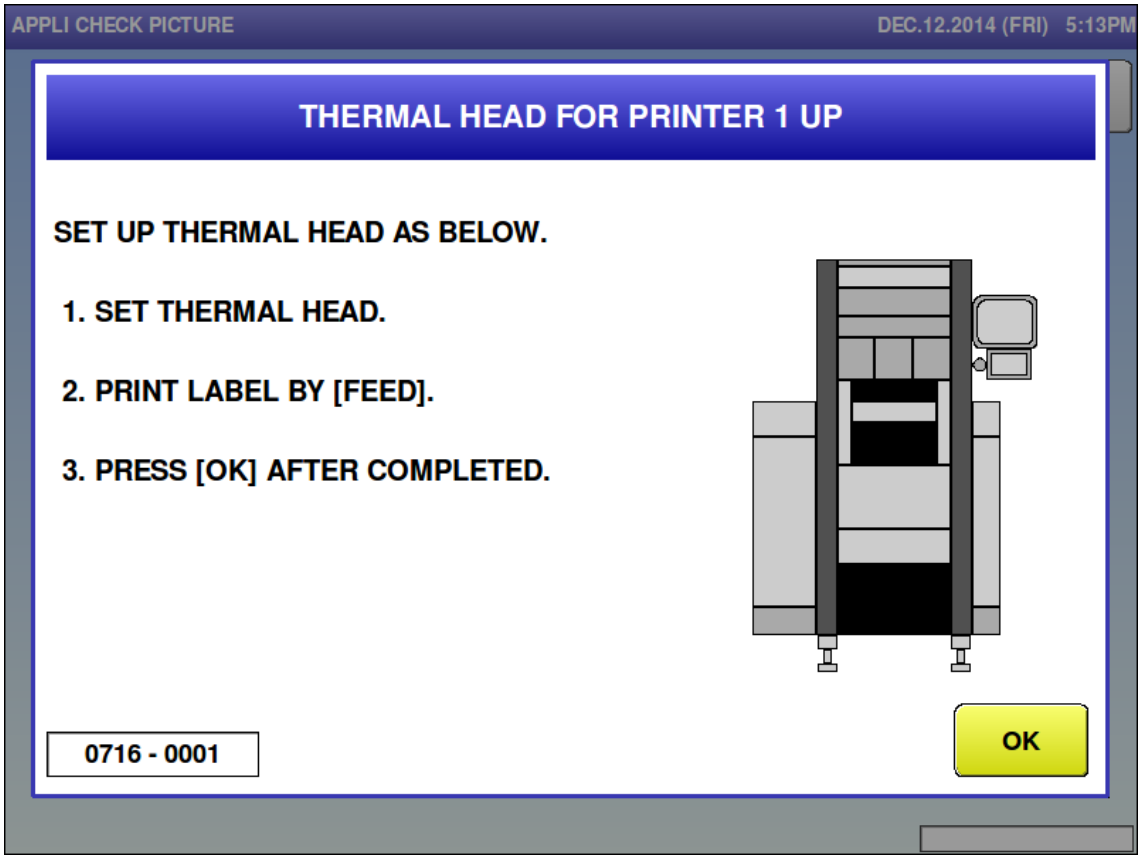
Error content	Thermal head is worn out for printer 1
Detail	Affected portion is separated by sub-error No. 0002: It has run out in the formatted printing area
Solution	[EXEC] button, [STOP] button [EXEC] : Head check is performed to the next product. [STOP] ; Head check is not performed to the next product
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

■ Thermal head is worn out for printer 1 (715-0003, 815-0003)



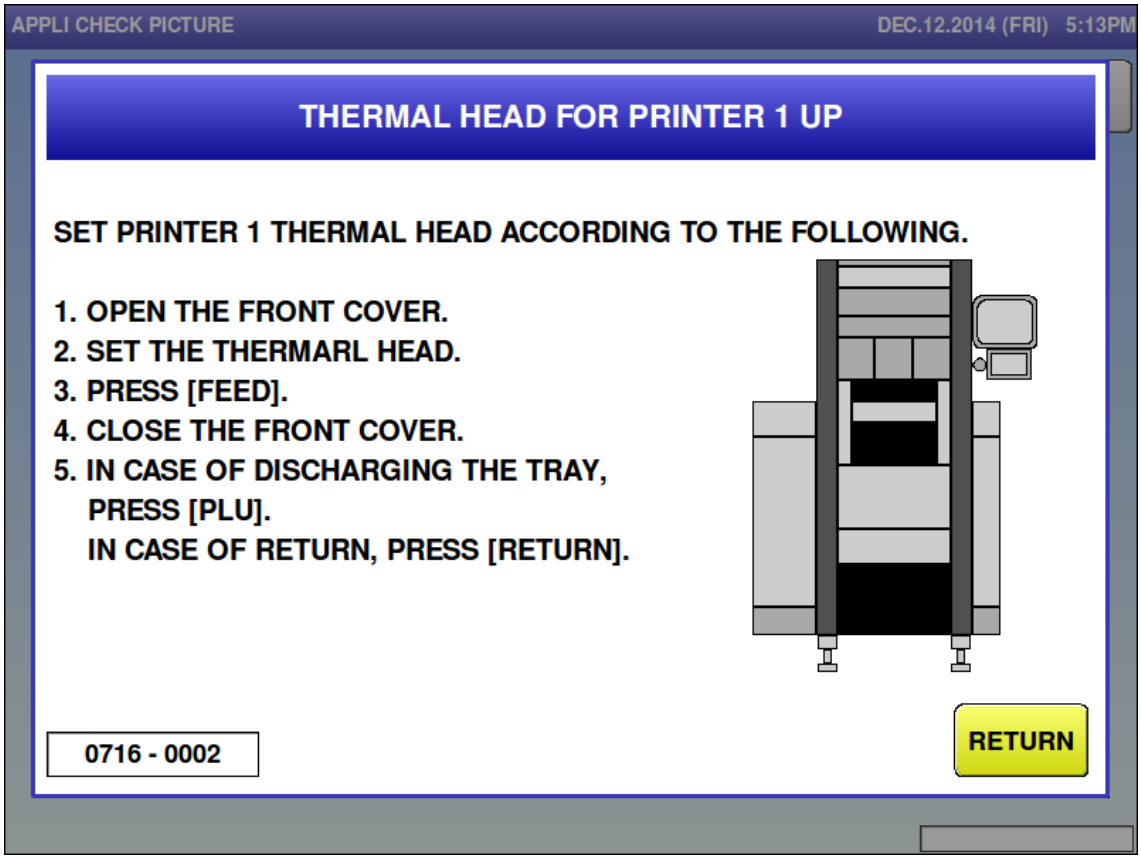
Error content	Thermal head is worn out for printer 1.
Detail	Affected portion is separated by sub-error No. 0003: The barcode portion has run out.
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

■ Thermal head for printer 1 up (716-0001, 816-0001)



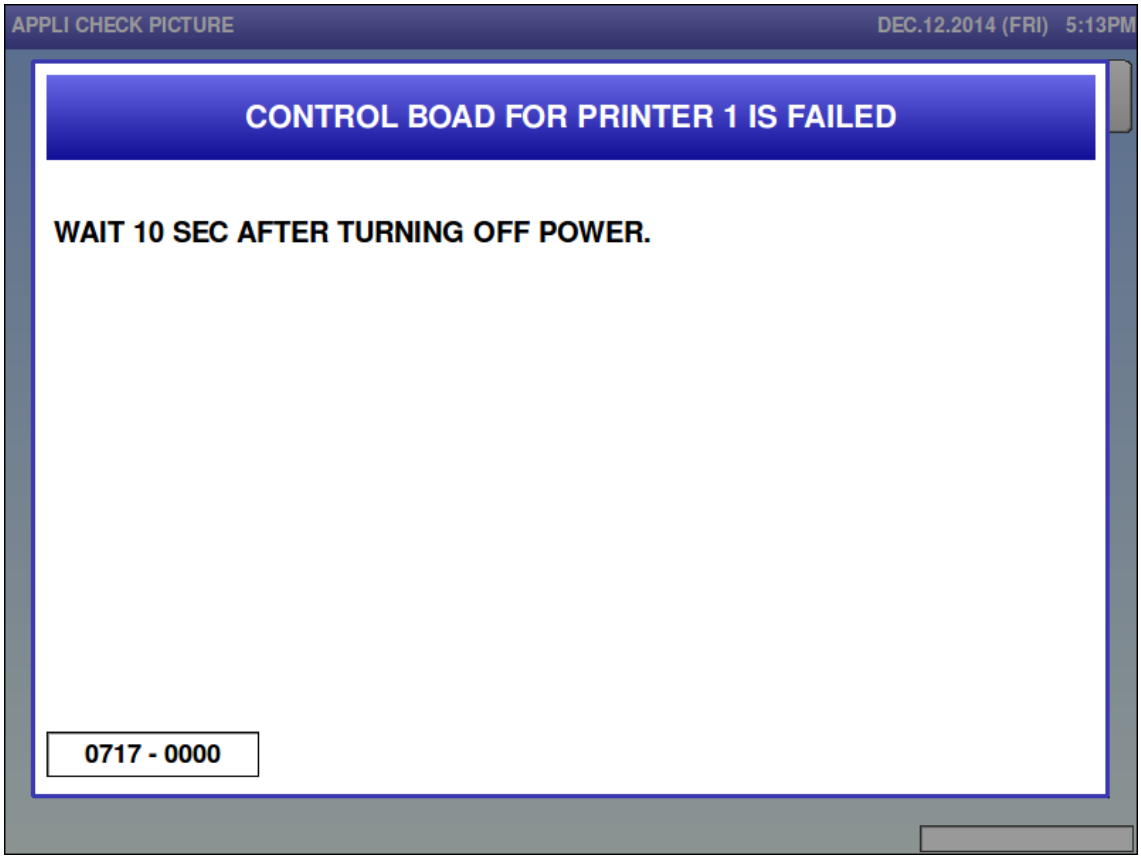
Error content	Thermal head for printer 1 up
Detail	The thermal head was up when printing starts. *This error is displayed in DP mode
Solution	Press the [OK] button after setting the thermal head
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

■ Thermal head for printer 1 up (716-0002, 816-0002)



Error content	Thermal head for printer 1 up
Detail	The thermal head was up when printing starts. This error is displayed when closing the front cover.
Solution	Press the [RETURN] button after setting the thermal head
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

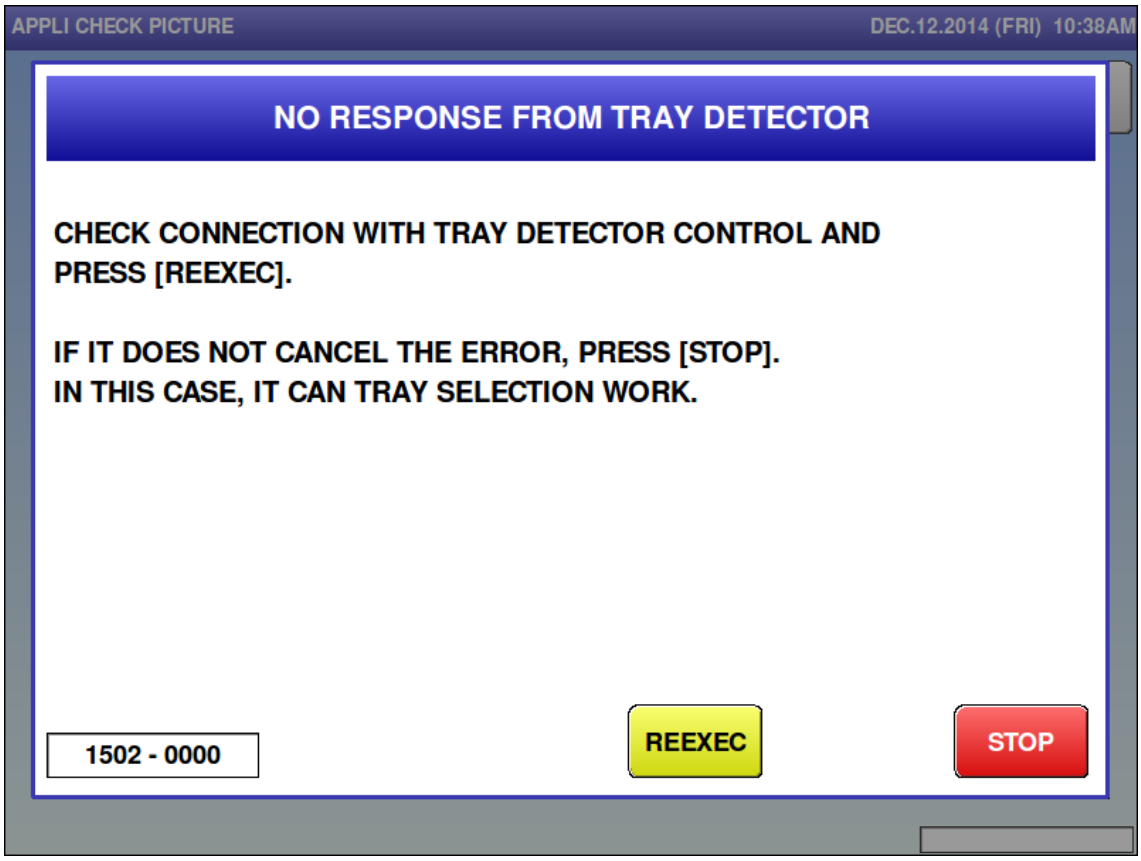
■ Control board for printer 1 is failed (717-0000, 817-0000)



Error content	Control board for printer 1 is failed (No. 1: P-1163, No.2 : P-1001).
Detail	Unable to detect an interrupt signal from the printer control board (P-1163, P-1001).
Solution	Restore power
Action by user	
Action by service representative	
Related part	
Remarks	“Printer No.1” changes depending on error No.

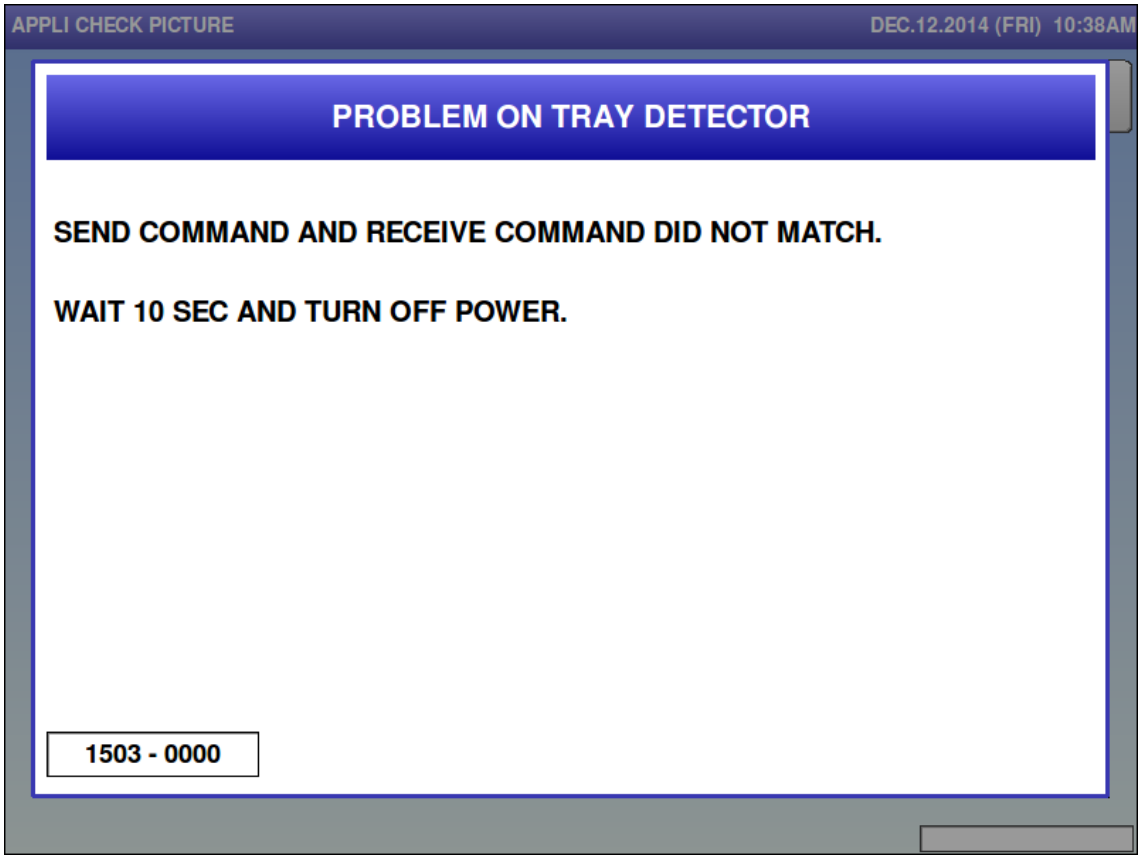
6.3.7 Detector-related Error (No. 1500s)

■ No response from tray detector (1502)



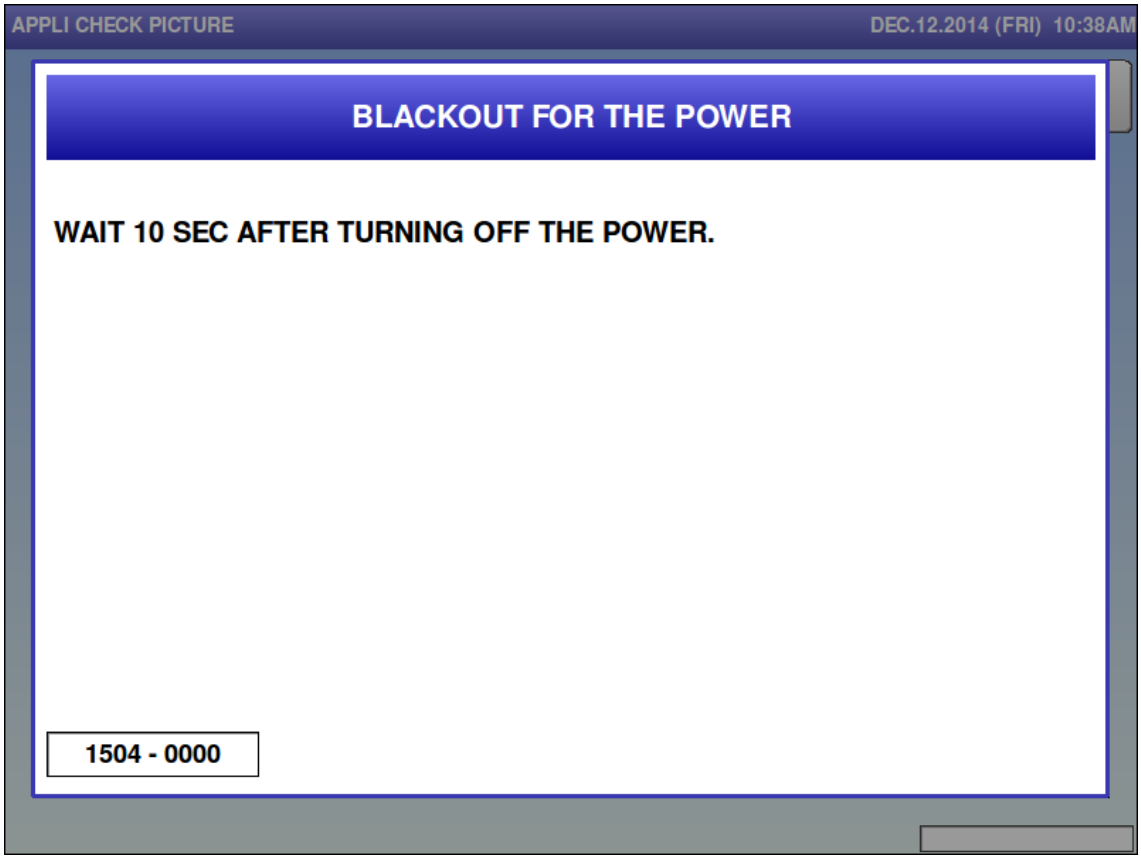
Error content	No response from tray detector
Detail	Unable to communicate between the console and the tray detector. The communication phase number is in the sub-error. Errors after power ON process completion result in this error.
Solution	[STOP] button => Cut communication with the detector. Operate without the detector. [REEXEC] button => Check connection with the detector. If connection can be confirmed, the error is cleared.
Action by user	
Action by service representative	Confirm the RS485 communication line of the main board (P-1100, P-1163, P-1000). Confirm RS485 communication line [A221 XJ-11] and 24VDC power supply [A221 XJ-9] of the detector board.
Related part	Main board (P-1100, P-1163, P-1000) [A10] Detector board (P-1107) [A221]
Remarks	

■ Problem on tray detector (1503)



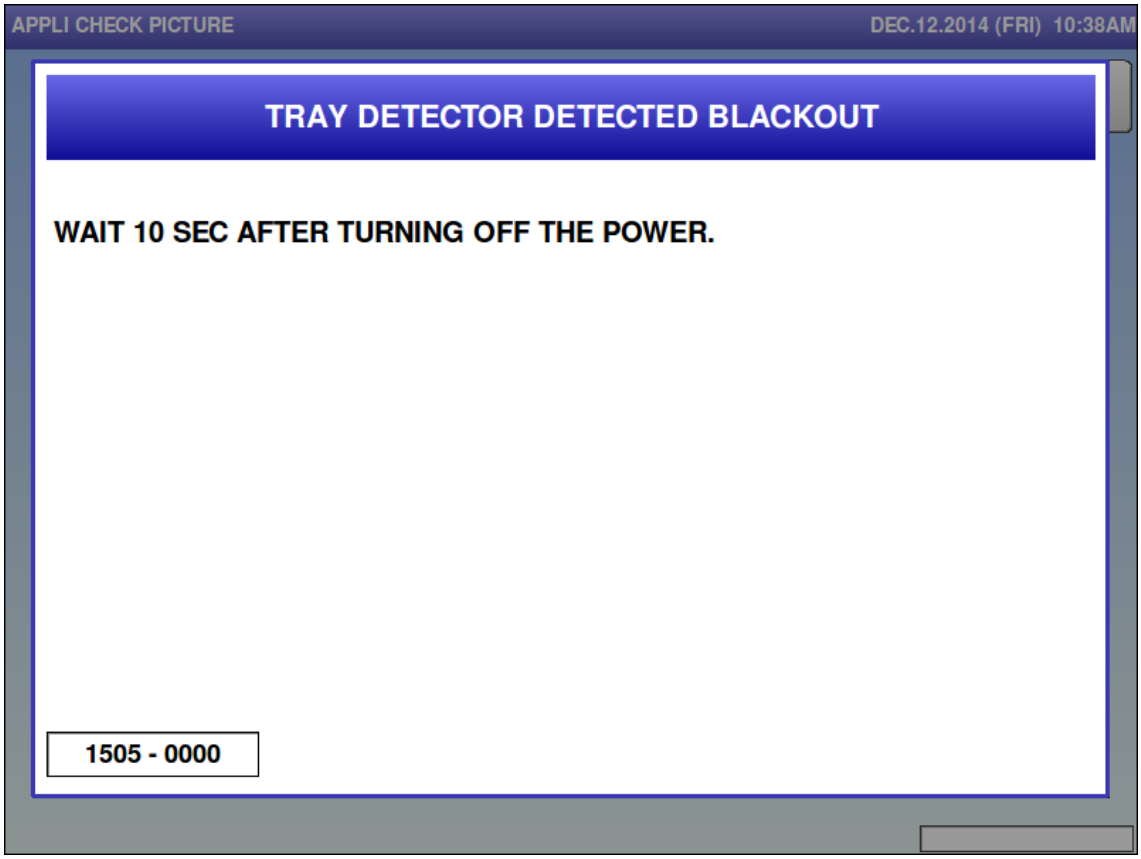
Error content	The command sent to the applicator and the command contained in the answer is different.
Detail	
Solution	Restore power
Action by user	
Action by service representative	Confirm the RS485 communication line of the main board (P-1100, P-1163, P-1000). Confirm RS485 communication line [A221 XJ-11] and 24VDC power supply [A221 XJ-9] of the detector board.
Related part	Main board (P-1100, P-1163, P-1000) [A10] Detector board (P-1107) [A221]
Remarks	

■ Blackout for the power (1504)



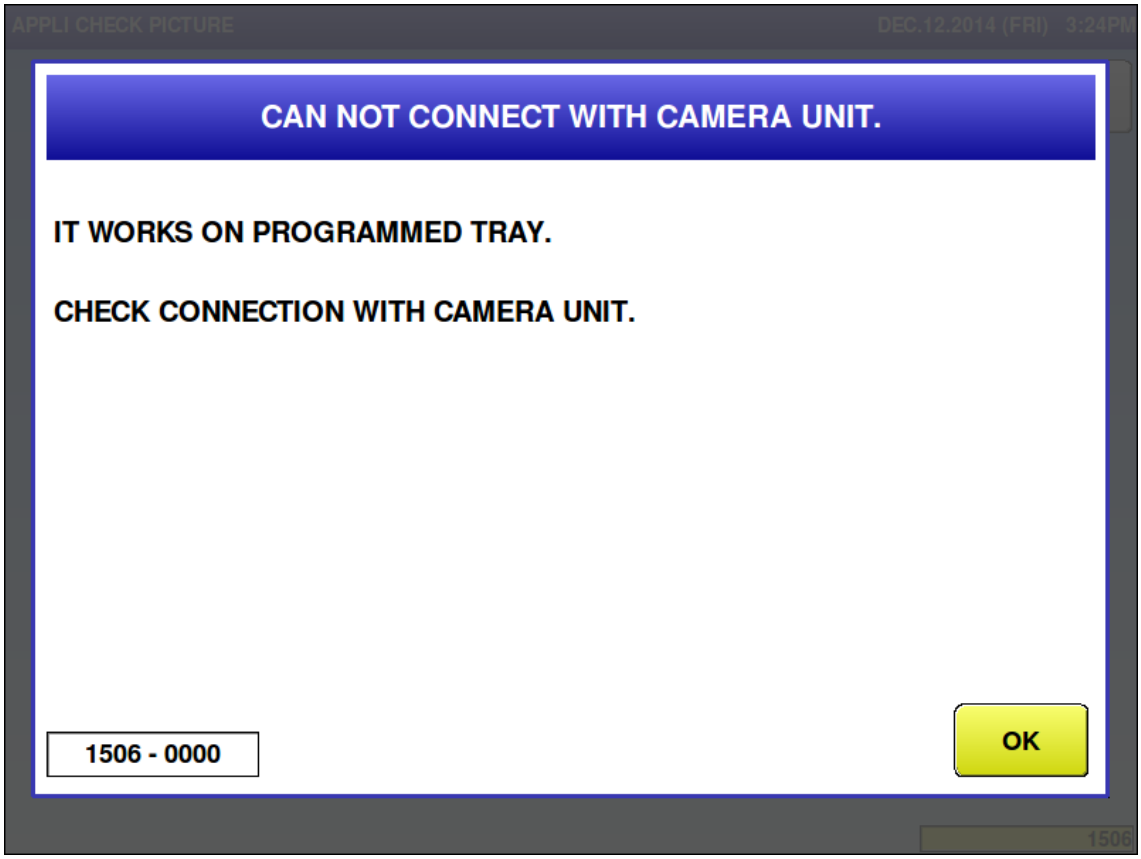
Error content	Tray detector detected power OFF in the console
Detail	Power ON command received twice from the console.
Solution	Restore power
Action by user	
Action by service representative	Confirm the power supply DC24V of the main board (P-1100, P-1163, P-1000). RS485 communication line of the main board [A221 XJ-11].
Related part	Switching power supply [U10] Main board (P-1100, P-1163, P-1000) [A10] Detector board (P-1107) [A221]
Remarks	

■ Tray detector detected blackout (1505)



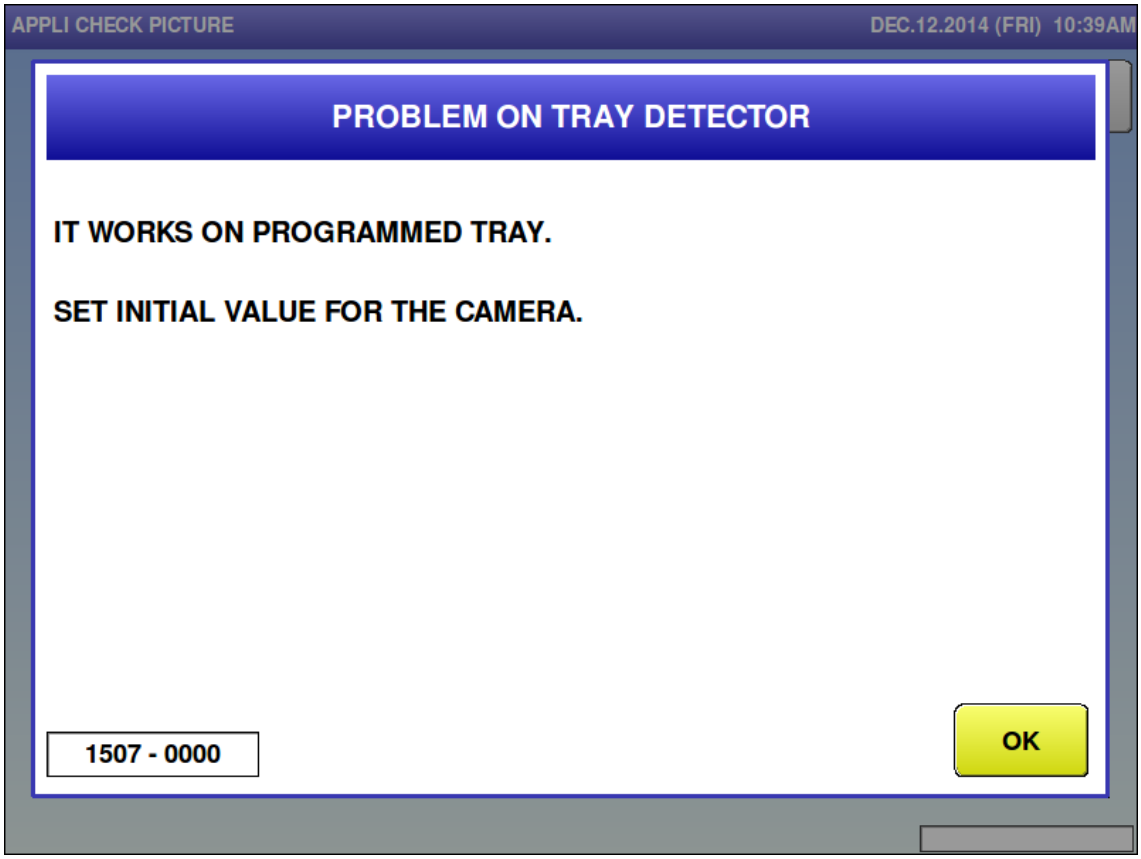
Error content	Tray detector blackout or the tray detector board CPU was reset.
Detail	A different command was received before the power ON communication command
Solution	Restore power
Action by user	
Action by service representative	Confirm RS485 communication line [A221 XJ-11] and 24VDC power supply [A221 XJ-9] of the detector board.
Related part	Switching power supply [U11] Main board (P-1100, P-1163, P-1000) [A10] Detector board (P-1107) [A221]
Remarks	

■ Cannot connect with camera unit (1506)



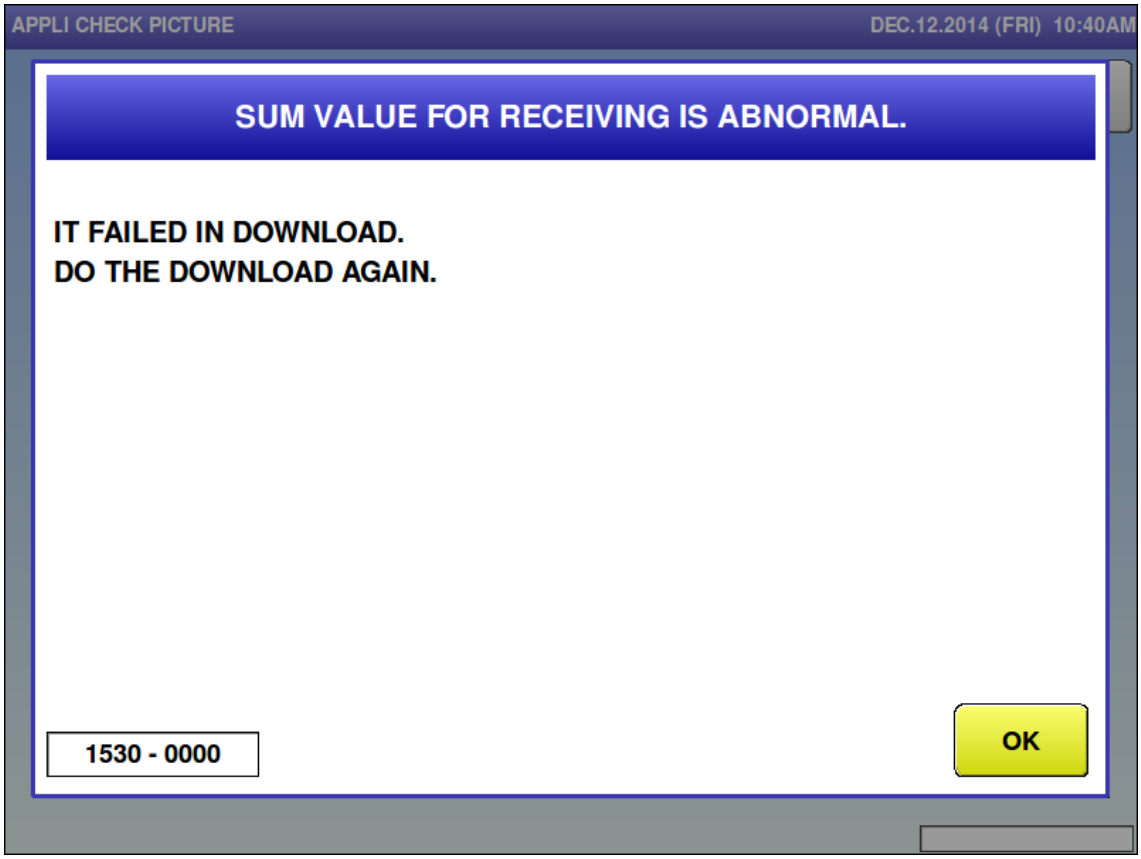
Error content	Unable to communicate between tray detector and the tray detector camera
Detail	It has been decided that the camera is not connected due to the inability to obtain a proper response when attempting to set the camera.
Solution	[OK] button => Operate without the tray detector. (Operate with registered trays)
Action by user	
Action by service representative	Confirm the connection between the detector board and CMOS camera [A221 XJ-4].
Related part	Detector board (P-1107) [A221] CMOS camera
Remarks	

■ Problem on tray detector (1507)



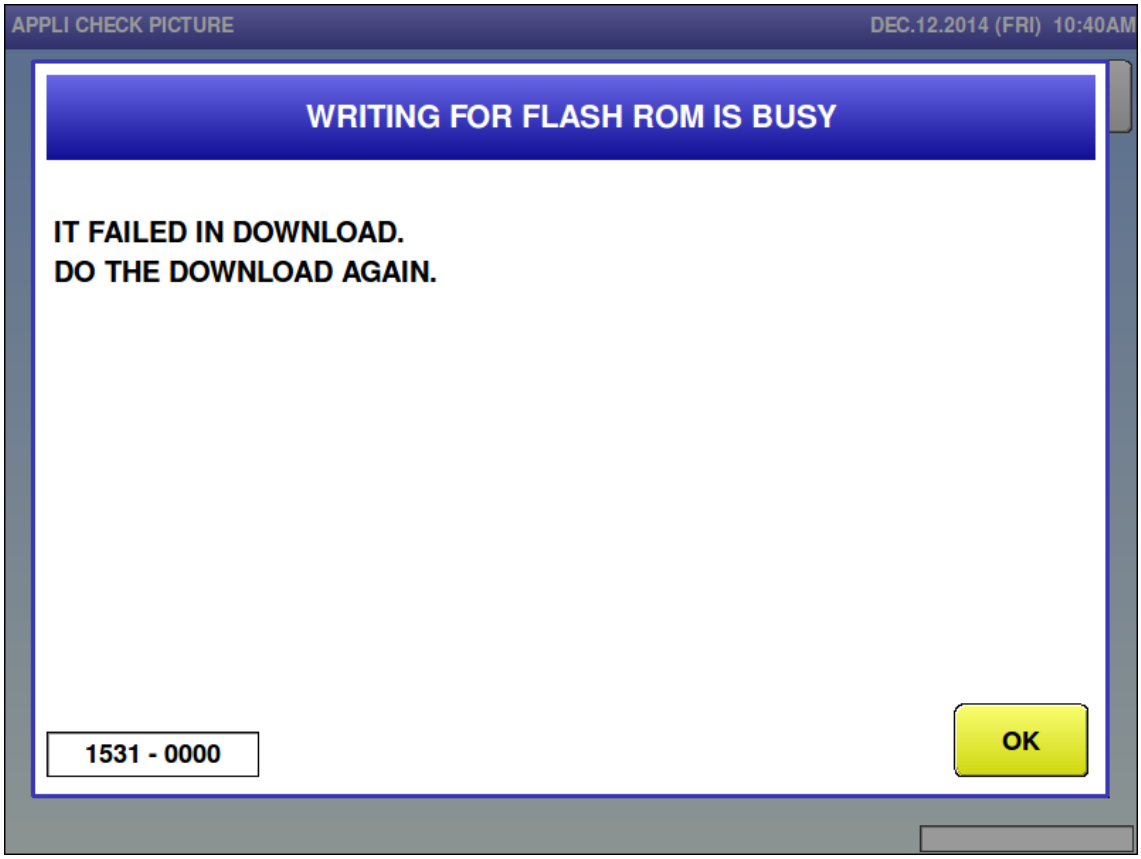
Error content	Threshold has not been set
Detail	An error occurred when writing threshold to FROM.
Solution	[OK] button => Operate without the tray detector. (Operate with registered trays)
Action by user	
Action by service representative	
Related part	Detector board [A221]
Remarks	

■ Sum value for receiving is abnormal (1530)



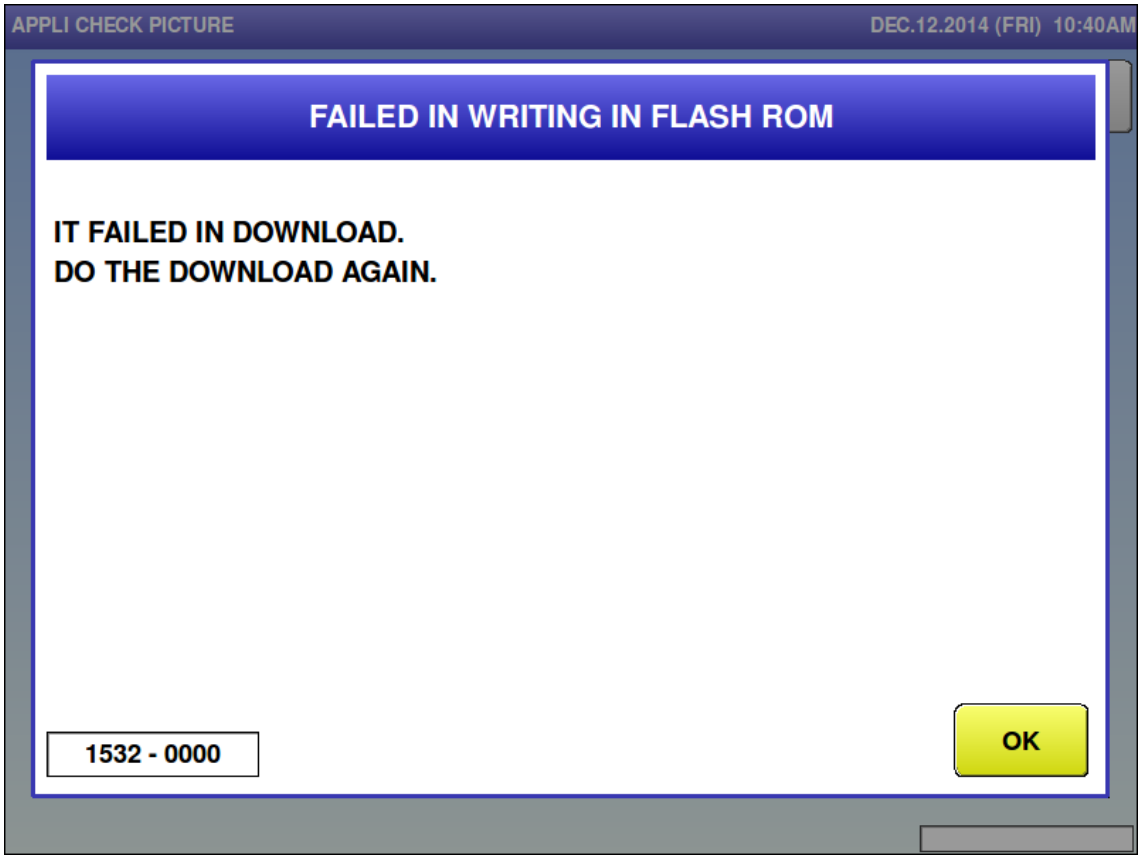
Error content	Data sum value error when downloading the program
Detail	Occurs if error exists of program data received from detector board when downloading the detection application program. Communication wasn't achieved between the main board and detector board due to noise when downloading.
Solution	[OK] button
Action by user	
Action by service representative	Perform re-download of the detector application.
Related part	Main board (P-1100、P-1163、P-1000) [A10] Detector board (P-1107) [A221]
Remarks	

■ Writing for flash ROM is busy (1531)



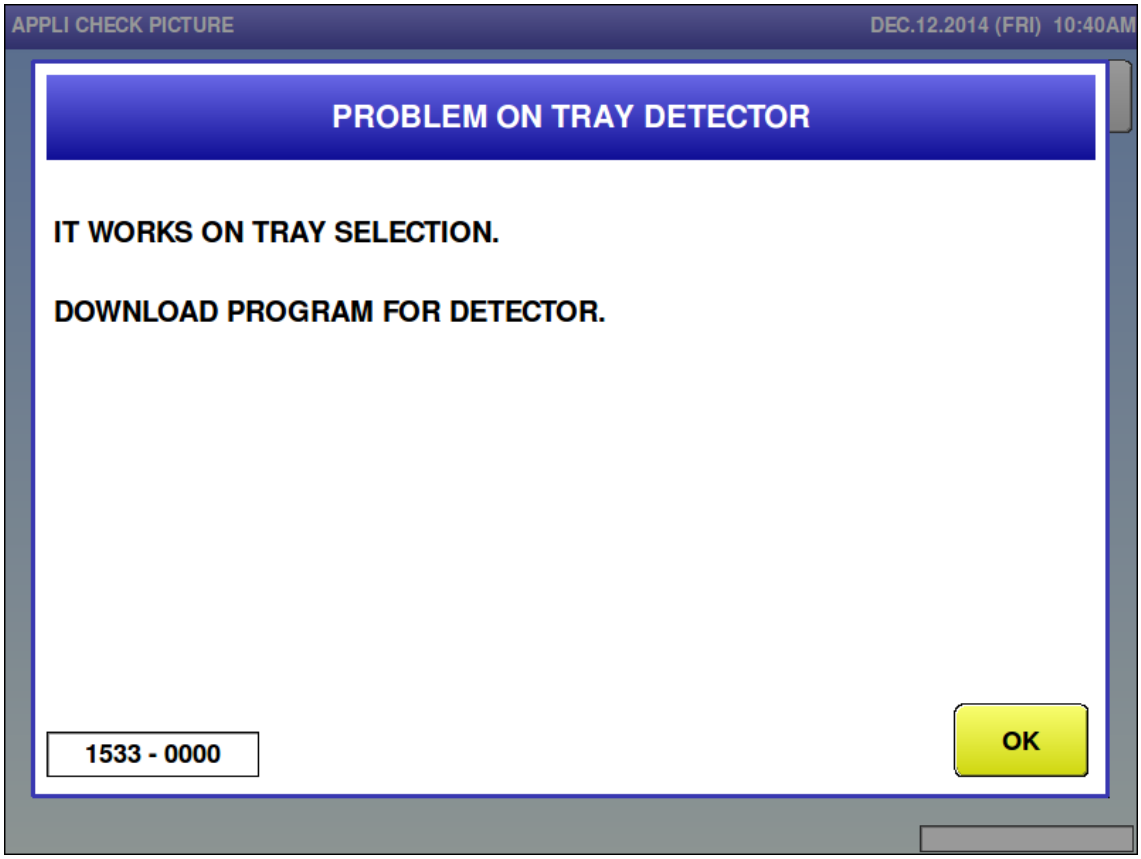
Error content	Unable to complete transit from detector flash ROM write during program download
Detail	
Solution	[OK] button
Action by user	
Action by service representative	Perform re-download of the detector application.
Related part	Detector board (P-1107) [A221]
Remarks	

■ Failed in writing in flash ROM (1532)



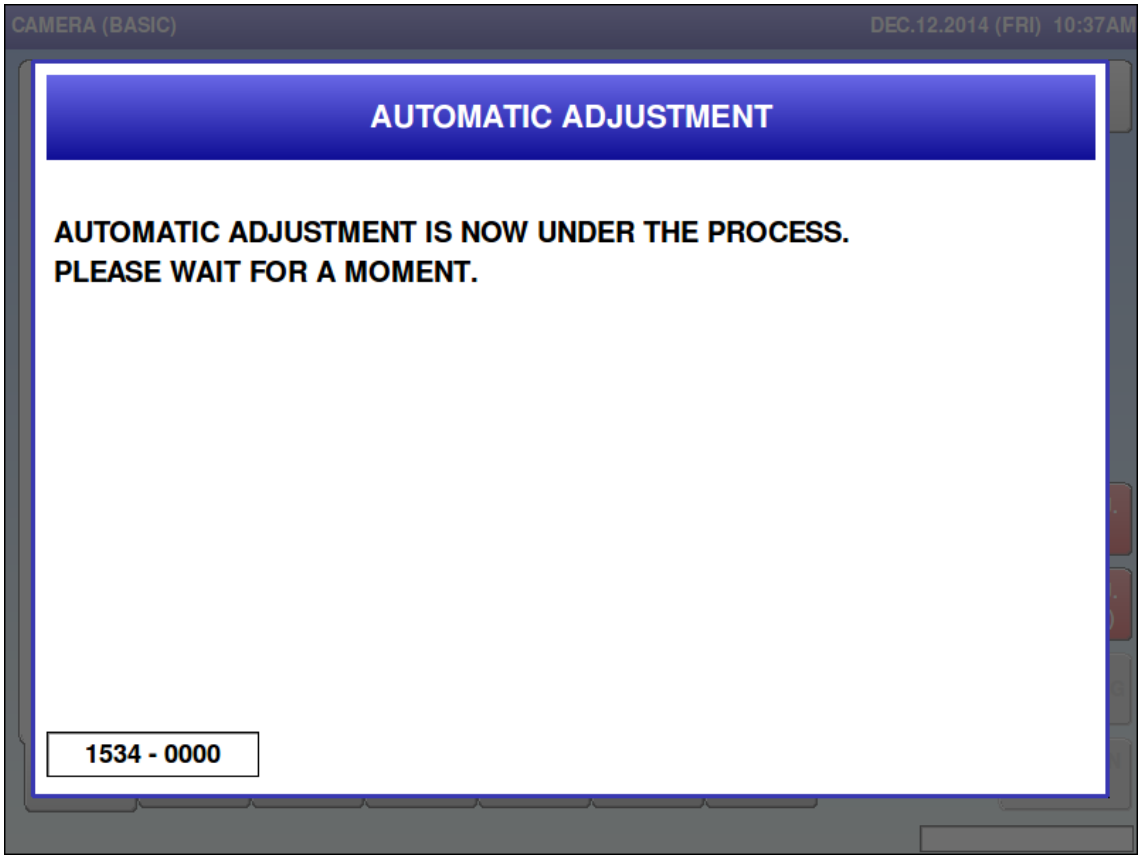
Error content	Detector failed to write flash ROM data during download
Detail	
Solution	[OK] button
Action by user	
Action by service representative	Perform re-download of the detector application.
Related part	Detector board (P-1107) [A221]
Remarks	

■ Problem on tray detector (1533)



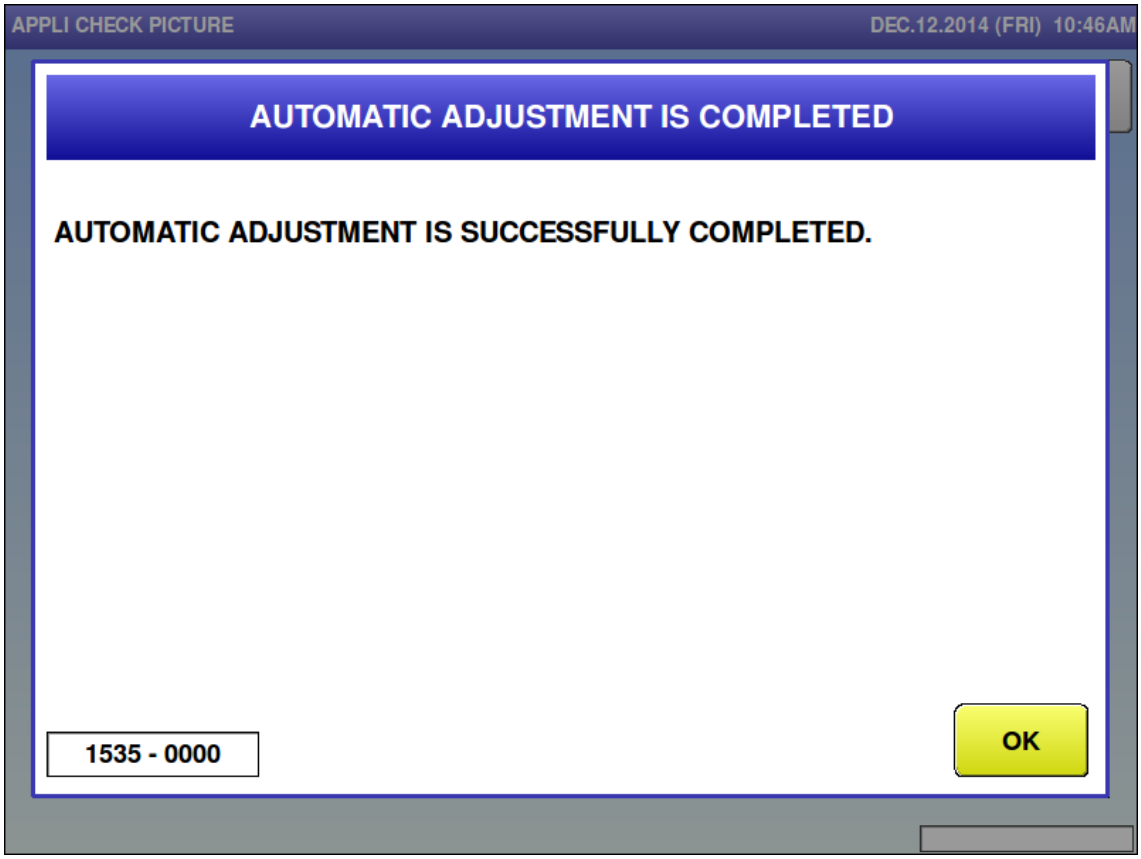
Error content	There is a boot program but no application program in the detector.
Detail	Separated by sub-error No. 0000: No application program exists. A boot program started. 0001: A boot program has started while between pin 2 and 3 of Jumper SW (JP2) in the detector board is short circuit.
Solution	[OK] button => Operate without the tray detector. (Operate with registered trays)
Action by user	
Action by service representative	Sub-error No.: 0000 A download of the detector application is required. Sub-error No.: 0001 Perform switching by short circuiting between pin 1 and 2 for the short circuit socket between pin 2 and 3 of the jumper SW (JP2) on the detector board.
Related part	Detector board [A221]
Remarks	

■ Automatic adjustment (1534)



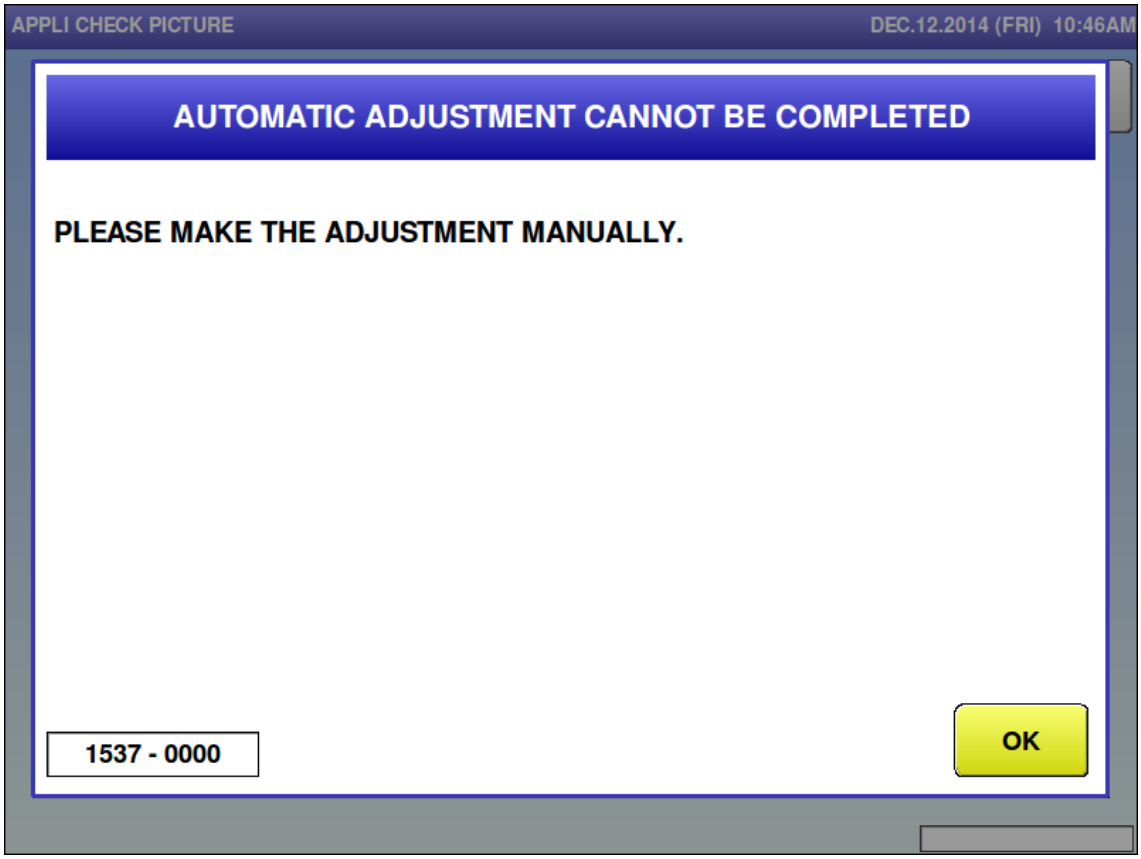
Error content	Automatic adjustment for the detector
Detail	A screen that indicates the detector is performing the automatic adjustment (brightness, distortion, volume). After the automatic adjustment, the screen changes to error screen for No.1535 or No.1537.
Solution	
Action by user	
Action by service representative	
Related part	
Remarks	

■ Automatic adjustment is completed (1535)



Error content	Automatic adjustment for the detector is successfully completed
Detail	The detector successfully completed the automatic adjustment (brightness, distortion, volume).
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	

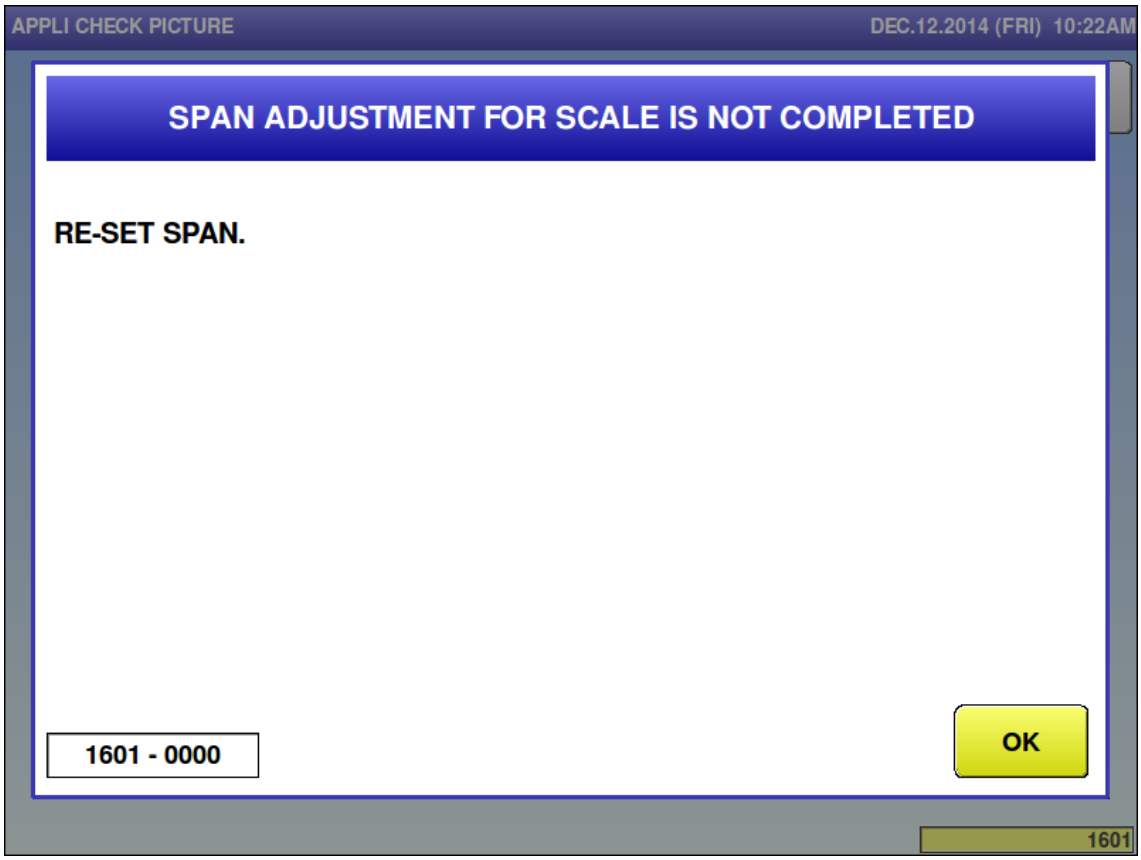
■ Automatic adjustment cannot be completed (1537)



Error content	Automatic adjustment for the detector failed.
Detail	The detector could not successfully complete the automatic adjustment. Which automatic adjustment caused the error is separated by sub-error No. 0000: brightness adjustment failed 0001: distortion adjustment failed 0002: volume adjustment failed
Solution	[OK] button
Action by user	
Action by service representative	Sub-error No.: [0000] and [0001] Perform automatic adjustment of brightness and distortion after confirming the detector board and LED light for tray detection. If failed, manually perform adjustment of the detector. Sub-error No.: [0002] Perform volume height automatic adjustment after confirming the volume height sensor.
Related part	Detector board [A221] LED light for tray detection Volume height detection sensor
Remarks	When automatic adjustment fails, the adjustment value returns to the value before the execution.

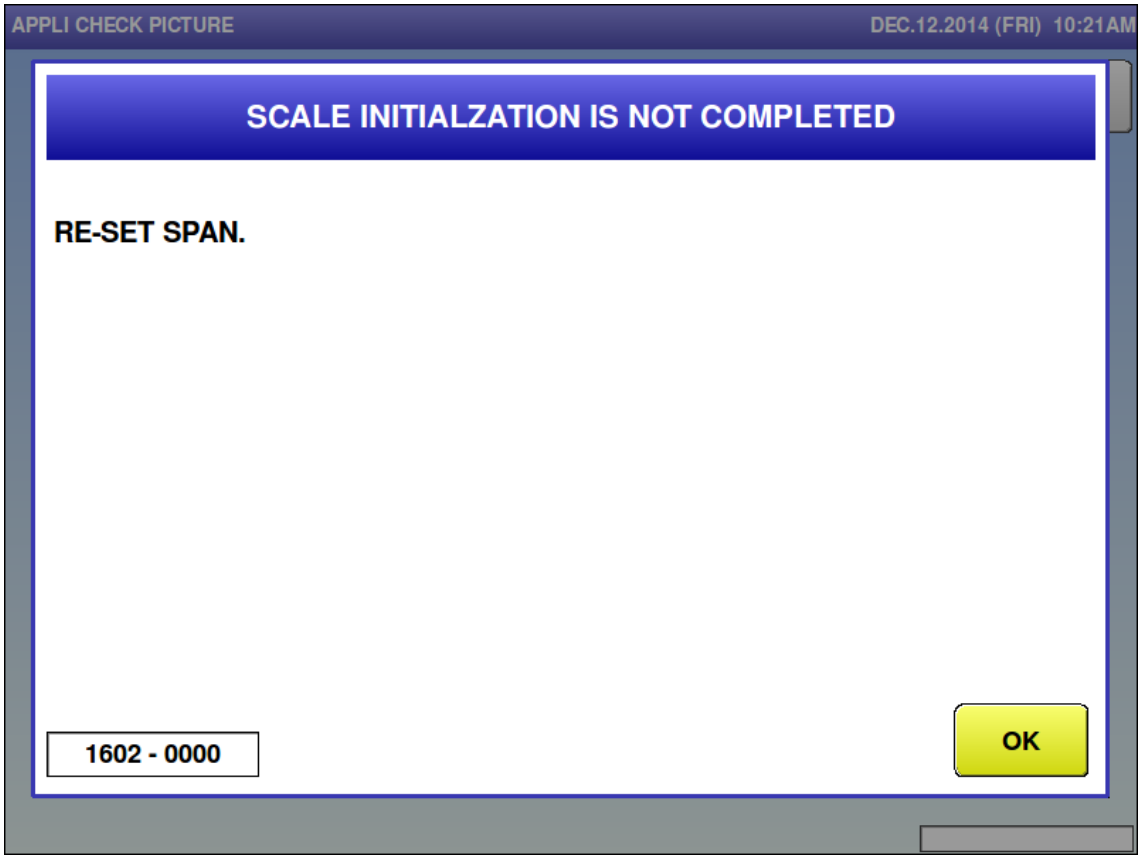
6.3.8 Scale-related Error (No. 1600s)

■ Span adjustment for scale is not completed (1601)



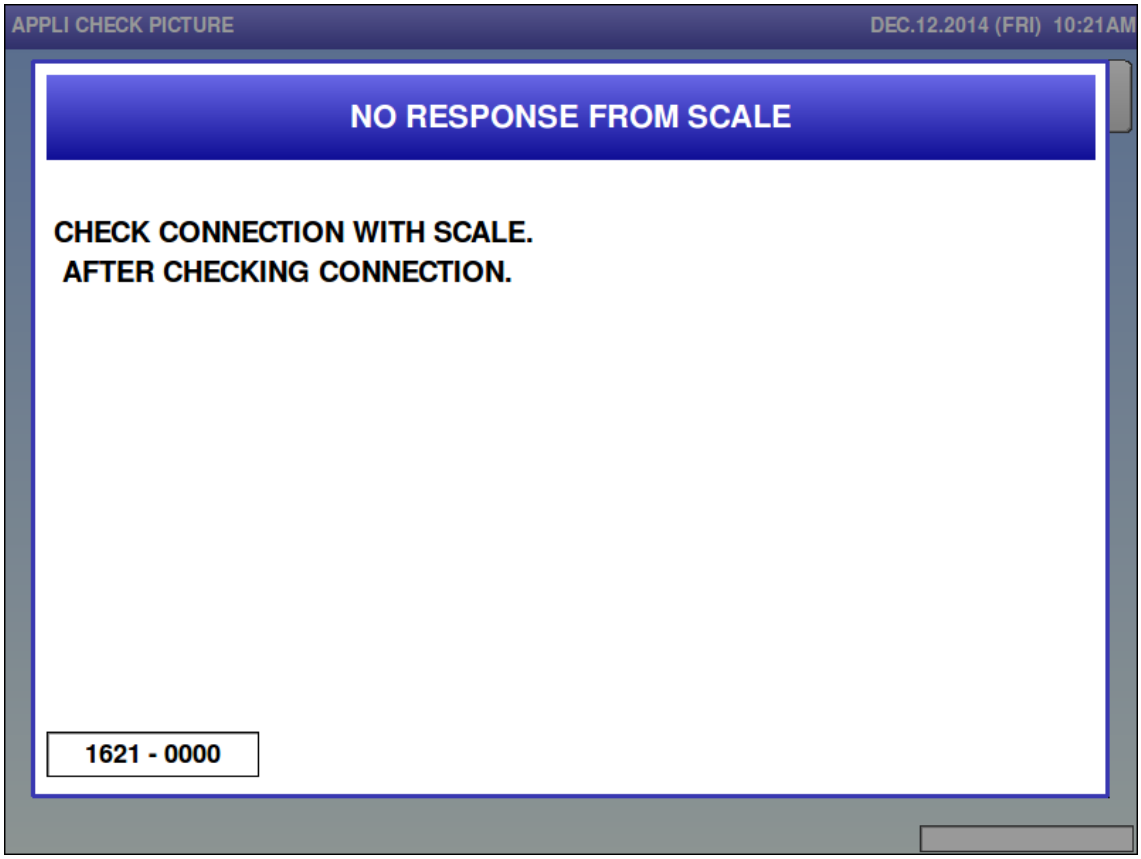
Error content	Span adjustment for scale is not completed.
Detail	The response from the scale is included in the sub-error
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	Reset span

■ Scale initialization is not completed (1602)



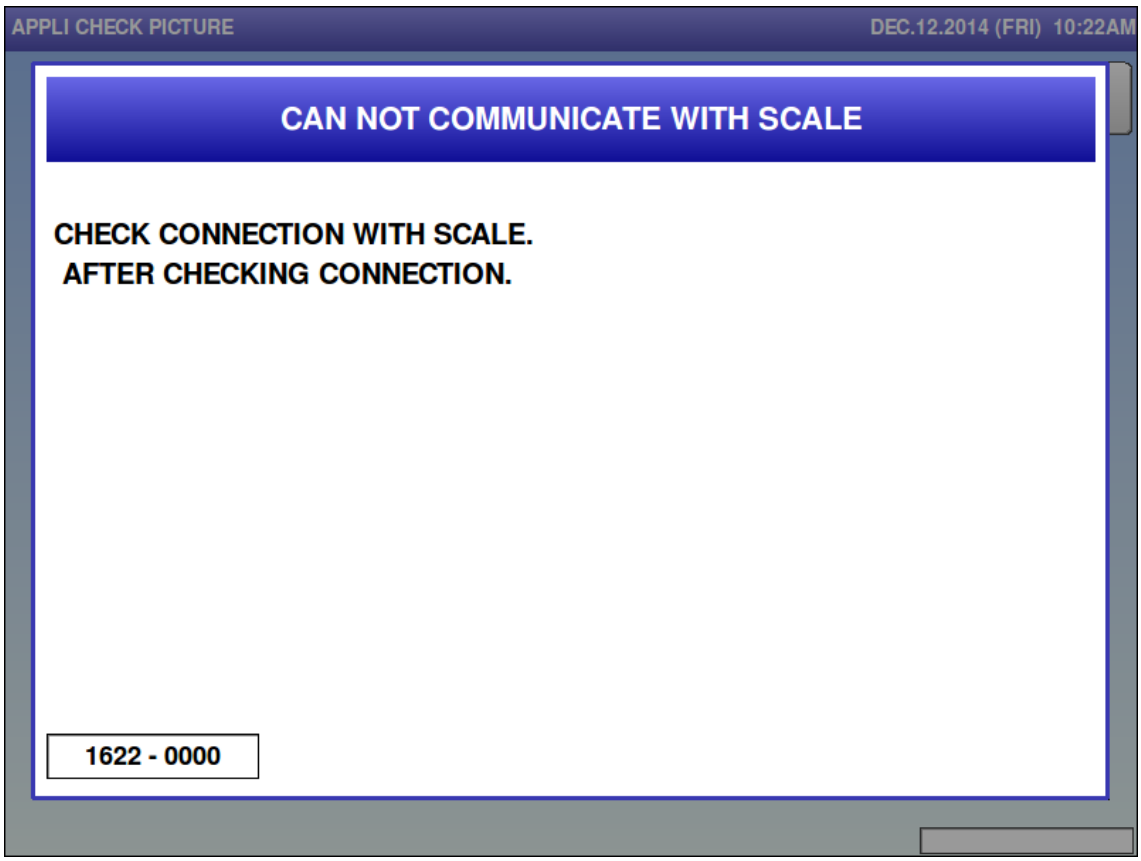
Error content	Scale initialization is not completed
Detail	The response from the scale is included in the sub-error.
Solution	[OK] button
Action by user	
Action by service representative	
Related part	
Remarks	Reset span.

■ No response from scale (1621)



Error content	No response from scale.
Detail	
Solution	Turn off power
Action by user	
Action by service representative	
Related part	
Remarks	Restore power after checking scale connection.

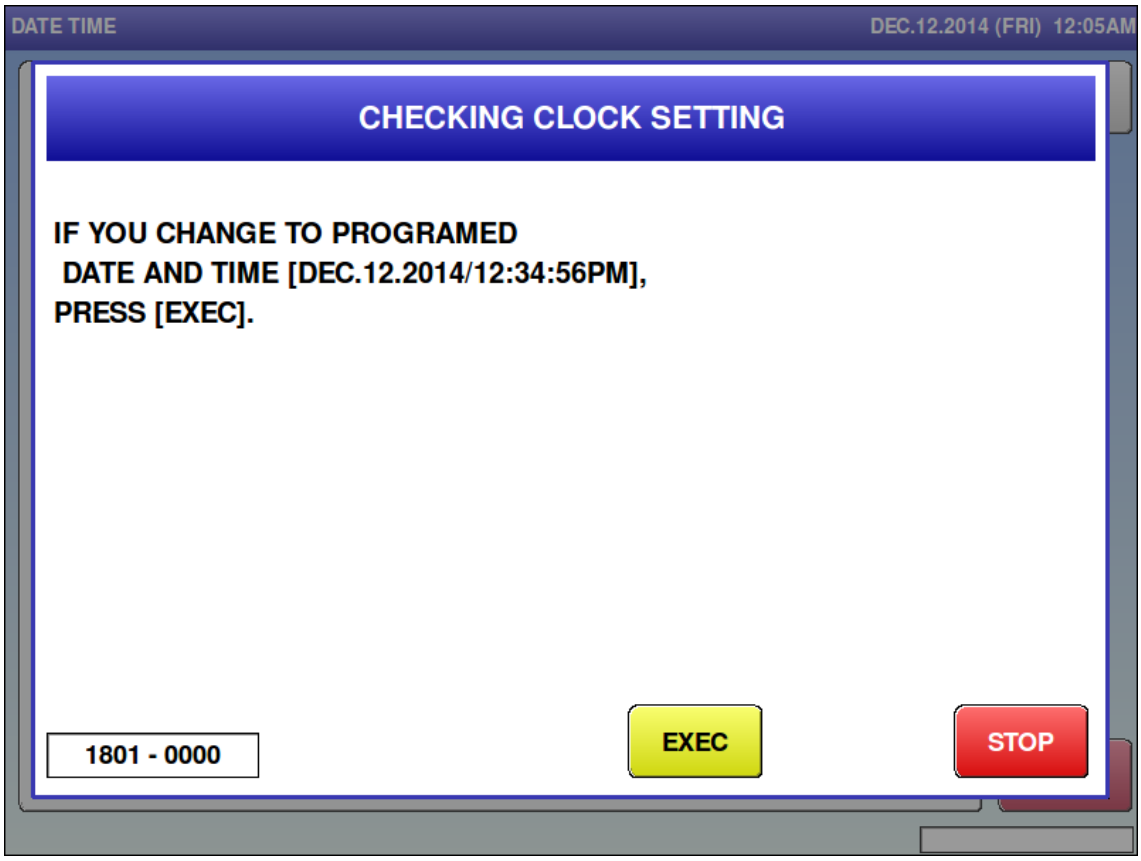
■ Cannot communicate with scale (1622)



Error content	Cannot communicate with scale
Detail	
Solution	Turn off power, [OK] button
Action by user	
Action by service representative	
Related part	
Remarks	Restore power after checking scale connection.

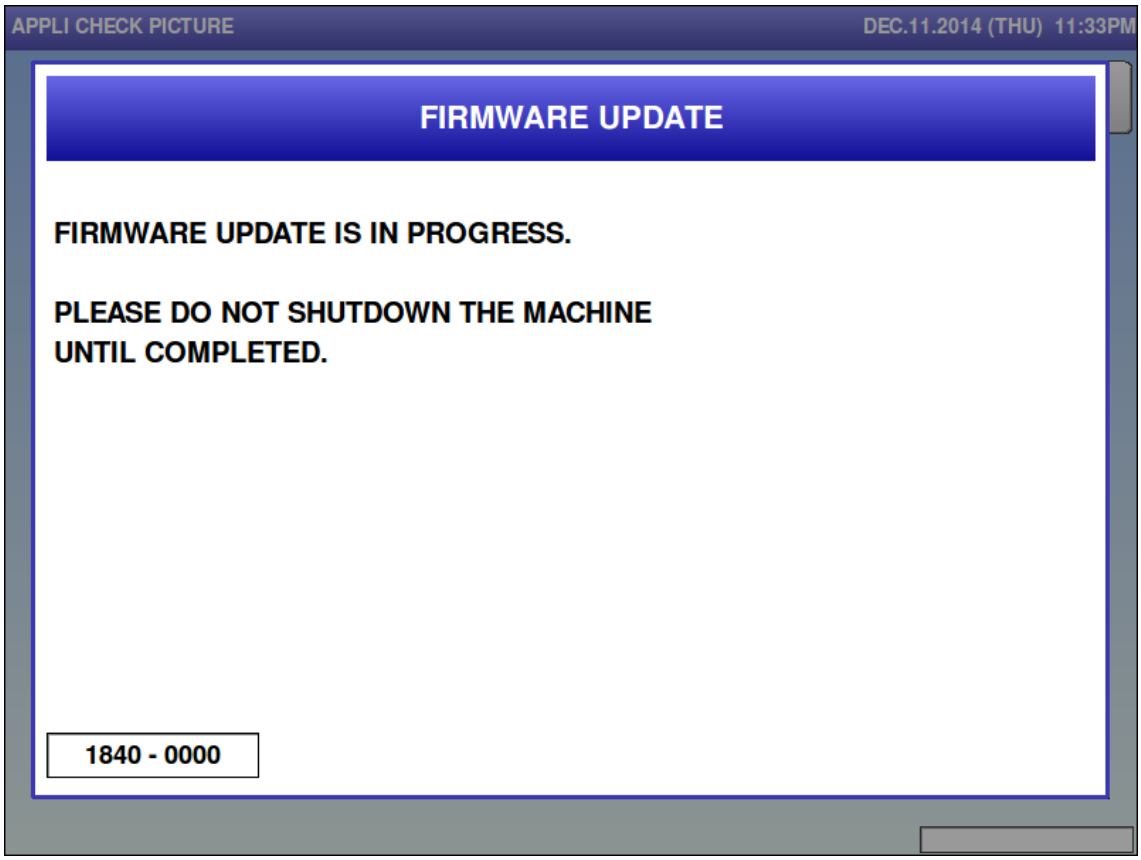
6.3.9 Dialog Selection-related Error (No. 1800s)

■ Checking clock setting (1801)



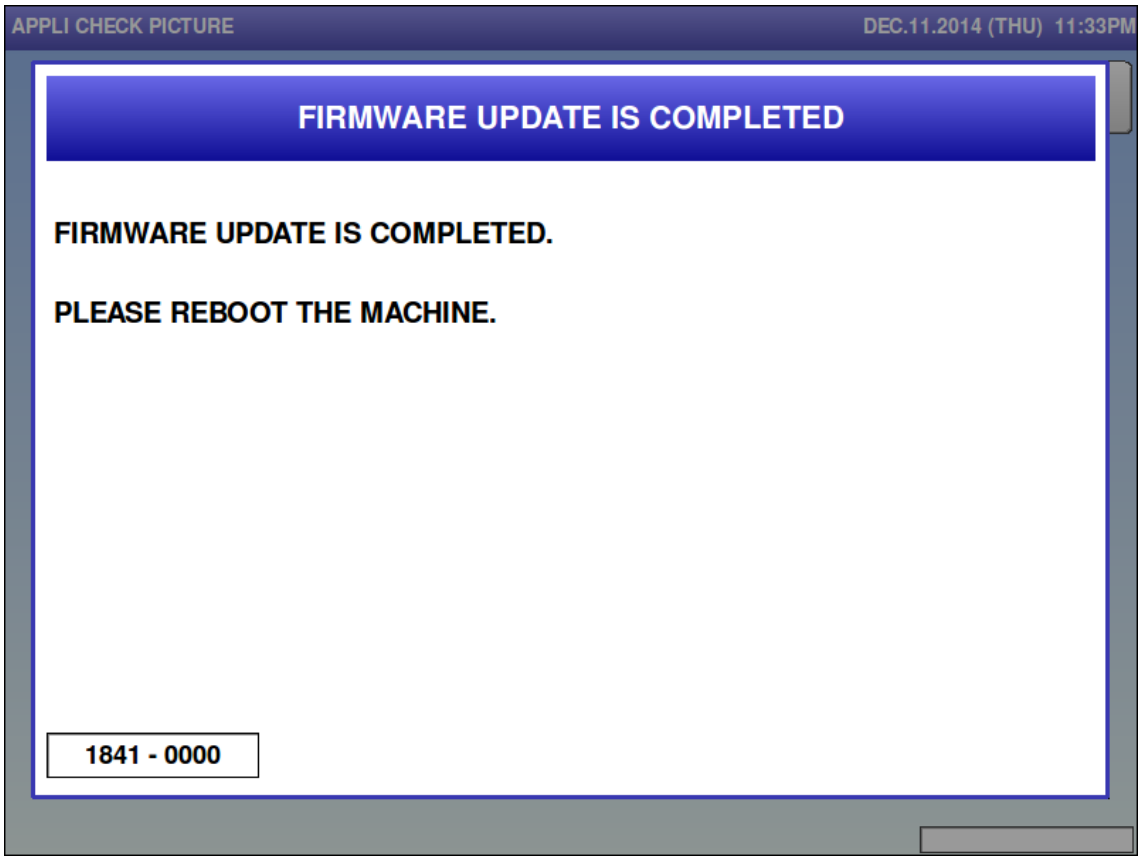
Error content	Occurs when attempting to change the clock setting
Detail	
Solution	[EXEC] button, [STOP] button
Action by user	
Action by service representative	
Related part	
Remarks	By pressing the [EXEC] button, the clock setting is changed according to what you entered, and returns to the [MENU] screen. By pressing the [STOP] button, current clock setting is not being changed, and returns to the [MENU] screen.

■ Firmware update (1840)



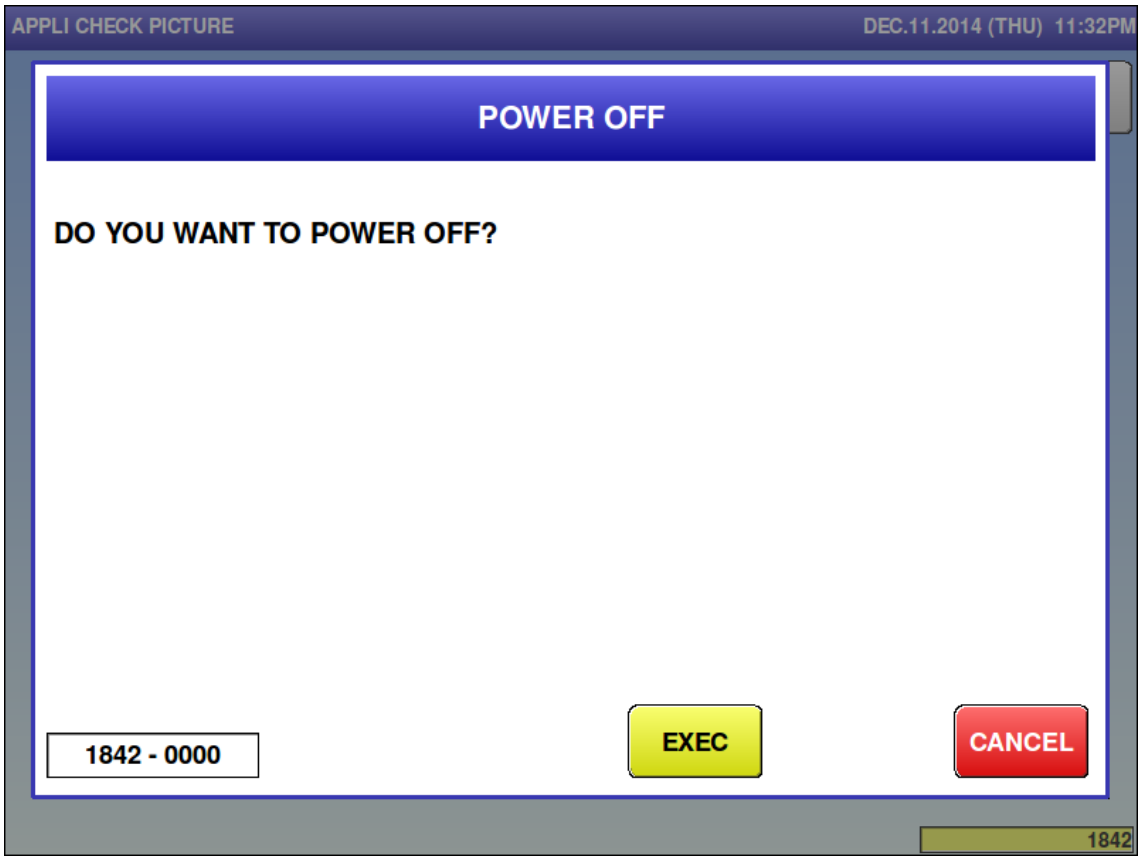
Error content	Updating the program.
Detail	Updating the program. Do not turn OFF the power.
Solution	
Action by user	
Action by service representative	
Related part	
Remarks	Display when the program is updated from SLP.

■ Firmware update is completed (1841)



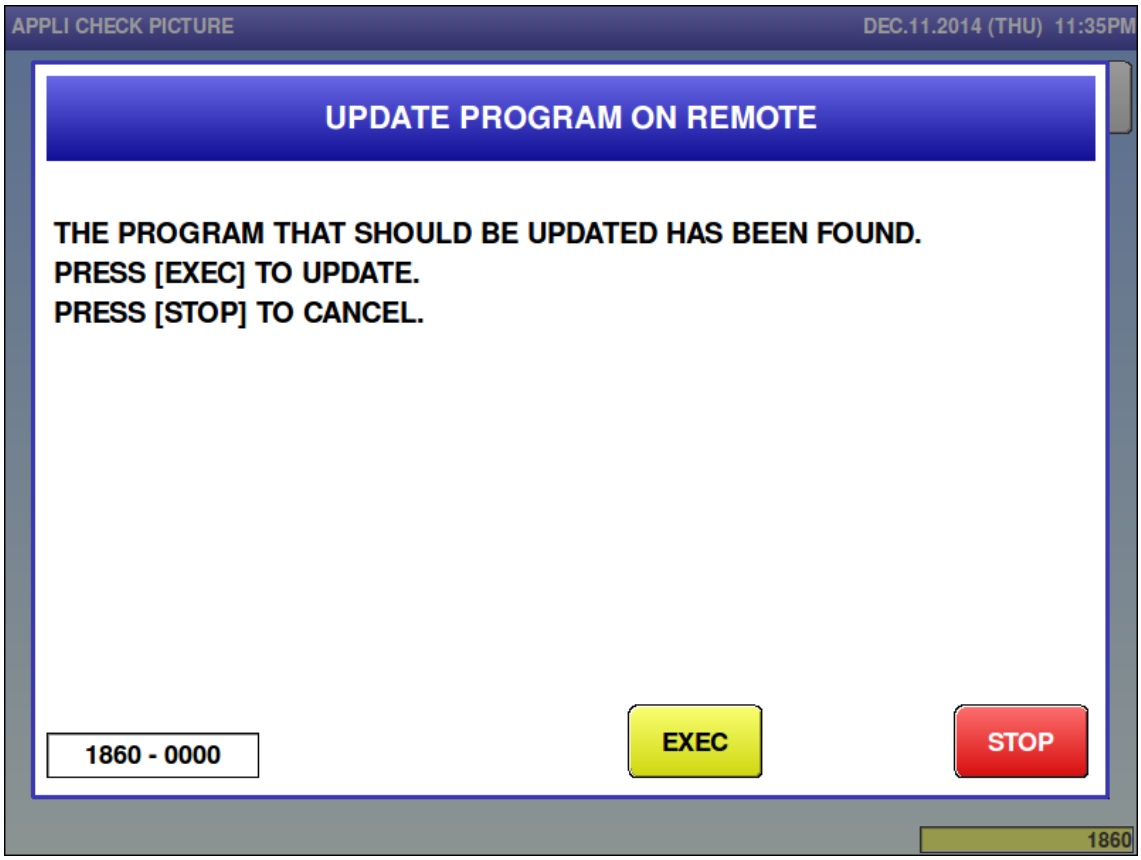
Error content	Program update has been completed.
Detail	Program update has been completed. Turn ON the power again.
Solution	
Action by user	
Action by service representative	
Related part	
Remarks	Display when the program is updated from SLP.

■ Power OFF (1842)



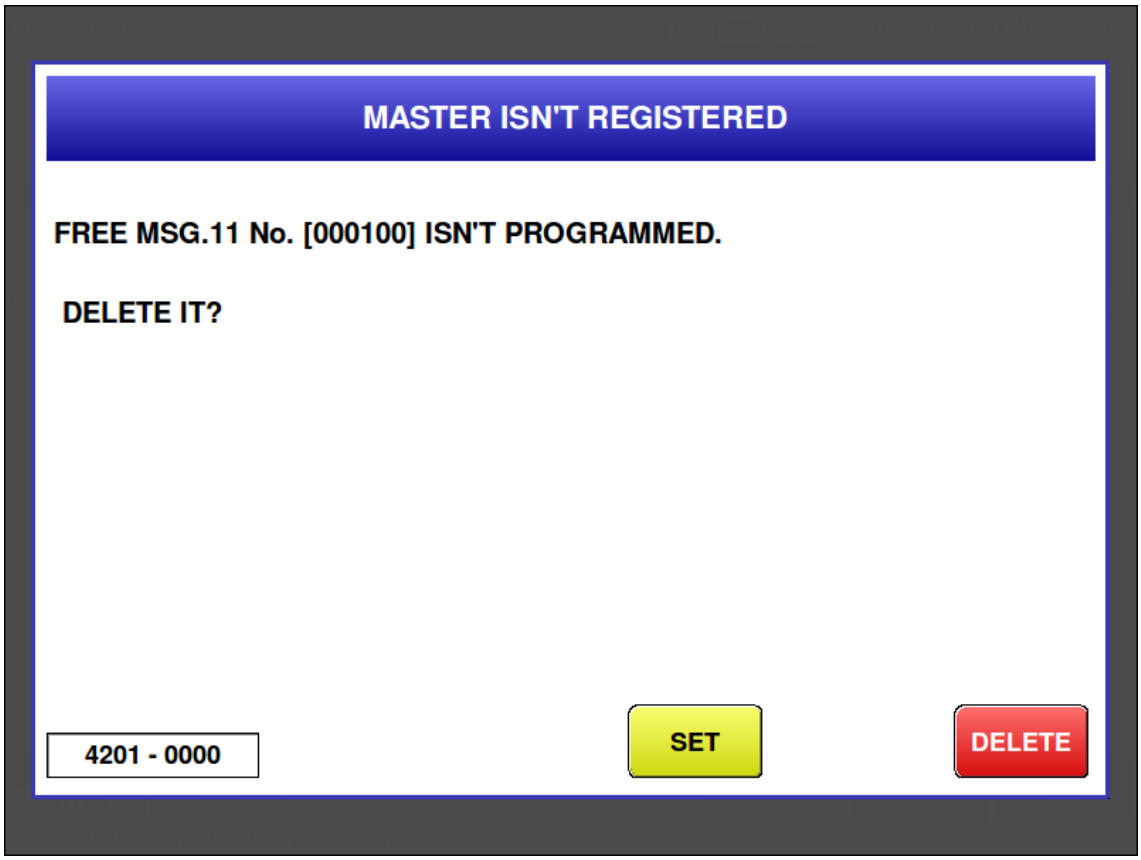
Error content	Confirm that the power supply is turned OFF.
Detail	Power OFF is checked when the power button is pressed.
Solution	Turn OFF the power supply by pressing the [EXEC] button. Pressing the [CANCEL] button returns to the original screen (screen where the power supply button was pressed).
Action by user	
Action by service representative	
Related part	
Remarks	Displayed only on the [IP] type.

■ Update program on remote (1860)



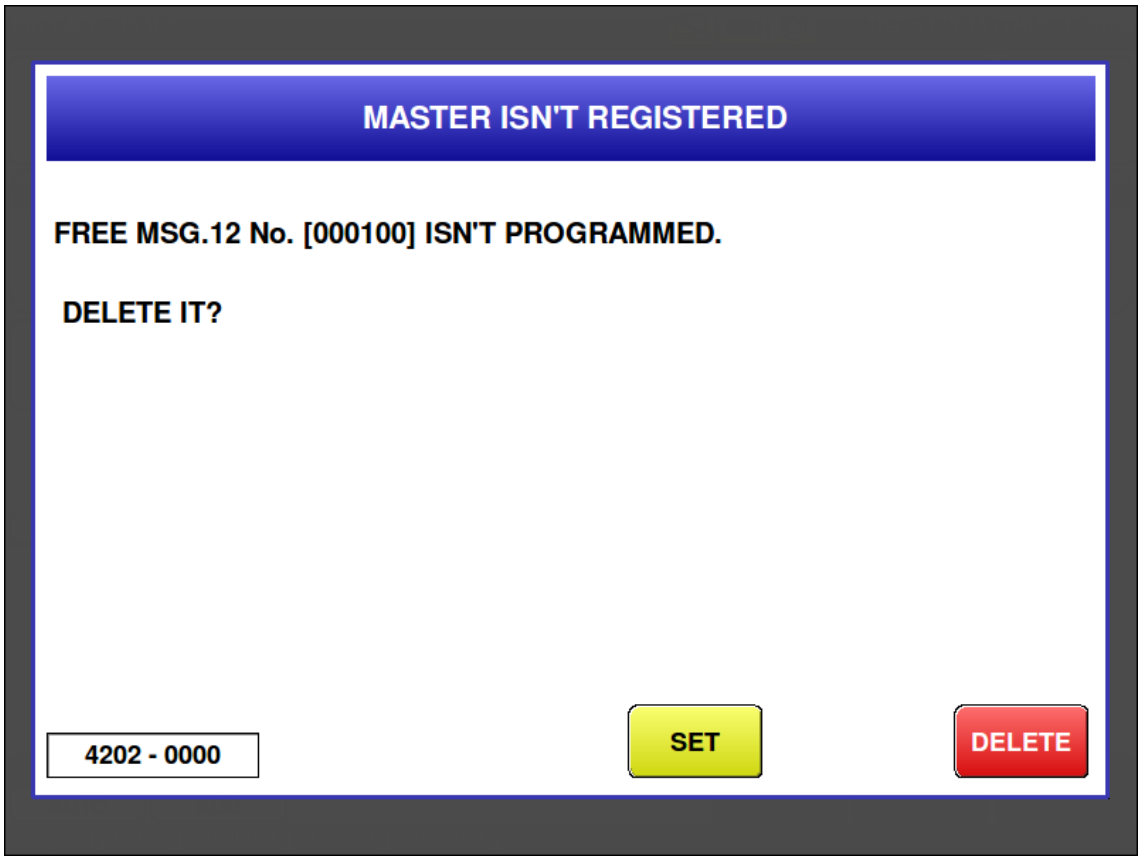
Error content	Confirm the program update remotely.
Detail	Update confirmation is performed when there is a program to be updated on the i global service when the power is ON.
Solution	Press the [EXEC] button to update the program from the cloud and restart after update. Press the [STOP] button to display clock confirmation.
Action by user	
Action by service representative	
Related part	
Remarks	Displayed when the i global service is enabled on [Settings: Machine No. (Global Service)], and there is an update program on the cloud service.

■ Free 11 master is not registered (4201)



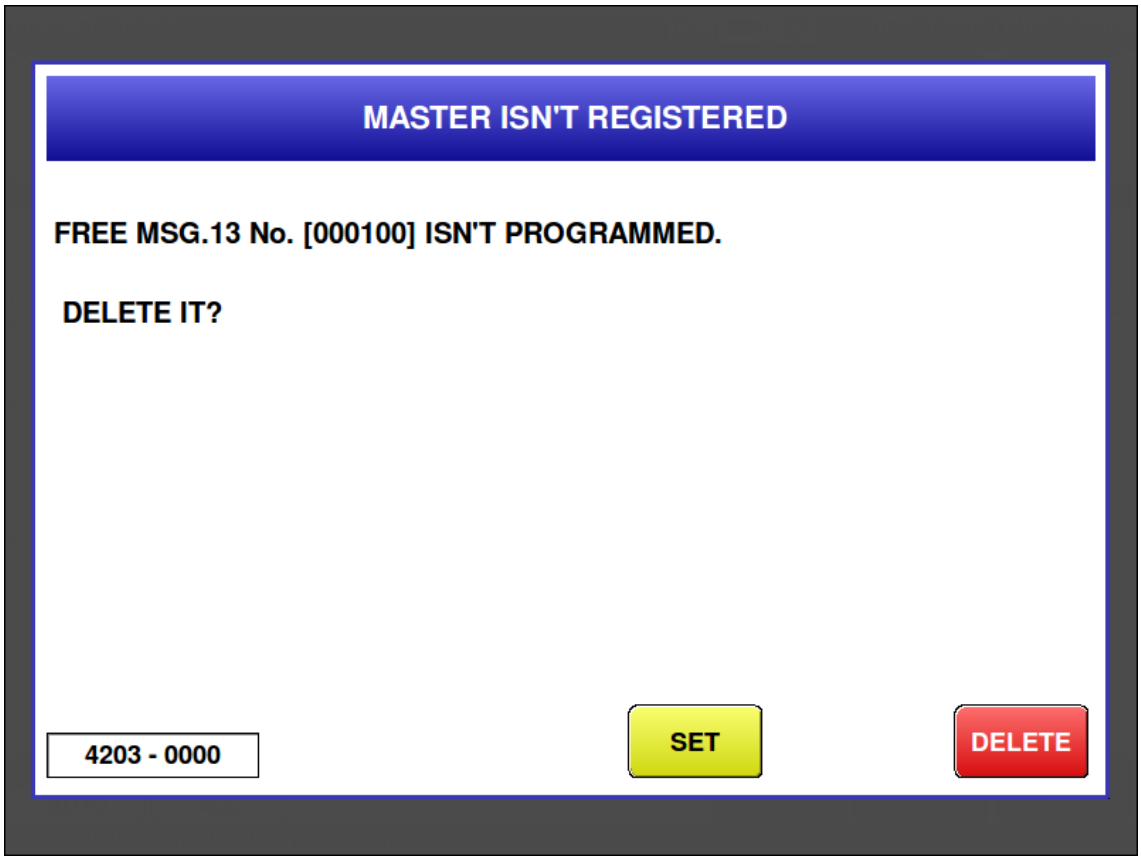
Error content	The called free 1 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free No.1 of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 1 master number. Add the free 1 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 1 No. is displayed. ・In the case of no free 1 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Free 12 master is not registered (4202)



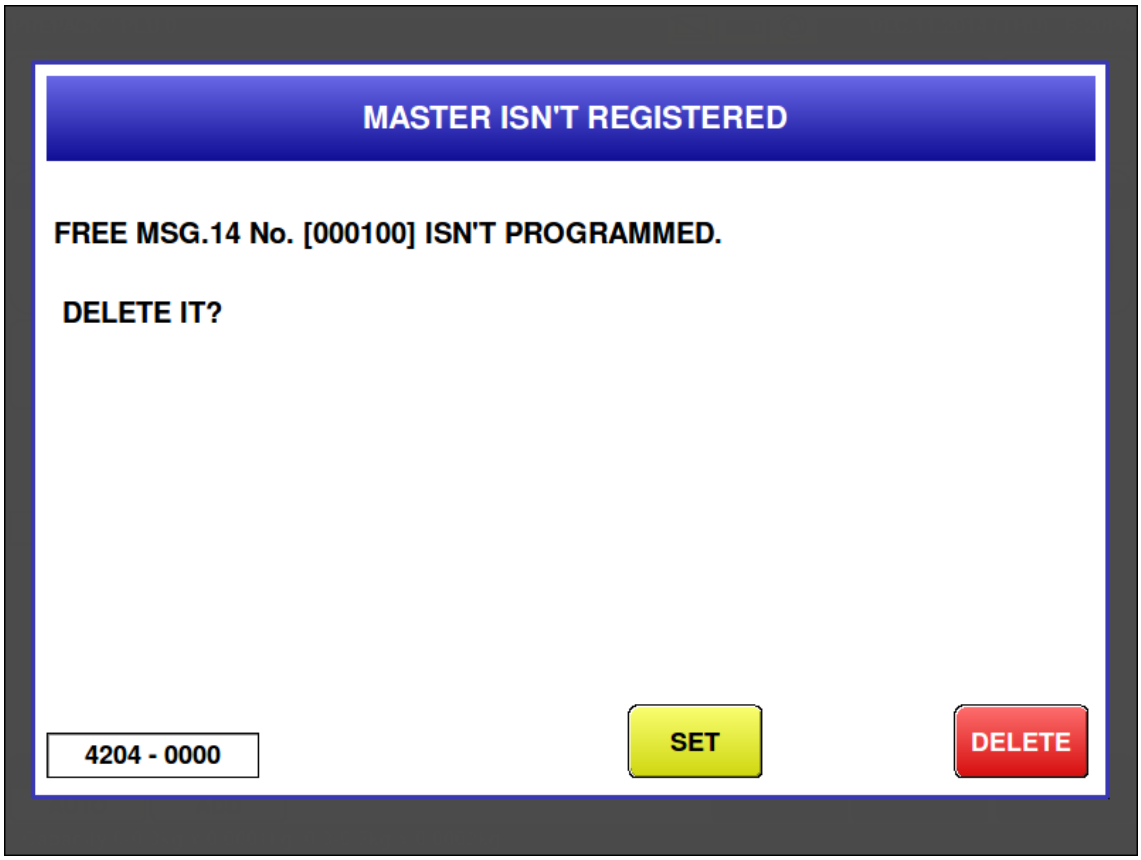
Error content	The called free 12 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free No.12 of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 12 master number. Add the free 12 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 12 No. is displayed. ・In the case of no free 12 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Free 13 master is not registered (4203)



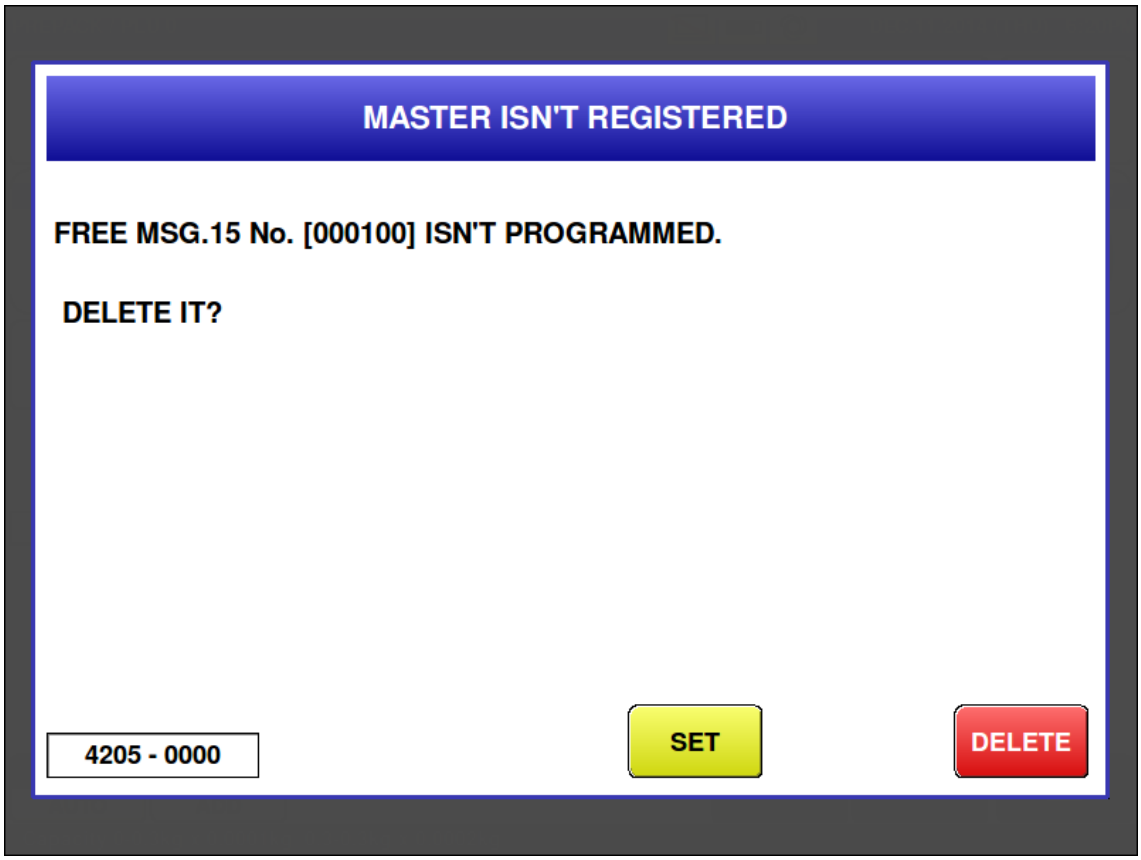
Error content	The called free 13 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free No.13 of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 13 master number. Add the free 13 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 13 No. is displayed. ・In the case of no free 13 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Free 14 master is not registered (4204)



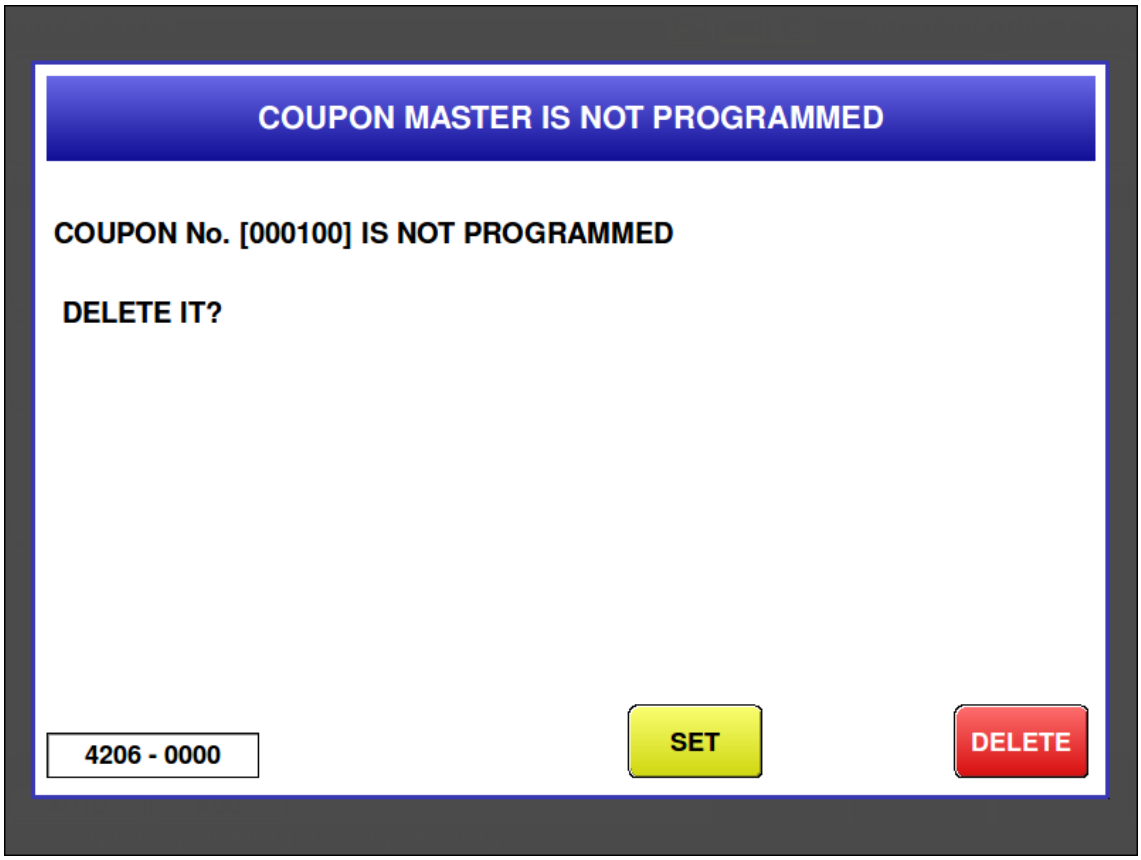
Error content	The called free 14 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free No.14 of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 14 master number. Add the free 14 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 14 No. is displayed. ・In the case of no free 14 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Free 15 master is not registered (4205)



Error content	The called free 15 master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete free No.15 of product master. [SET] button => Cancel error.
Action by user	Reconfirm the free 15 master number. Add the free 15 master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called free 15 No. is displayed. ・In the case of no free 15 No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

■ Coupon master is not registered (4206)

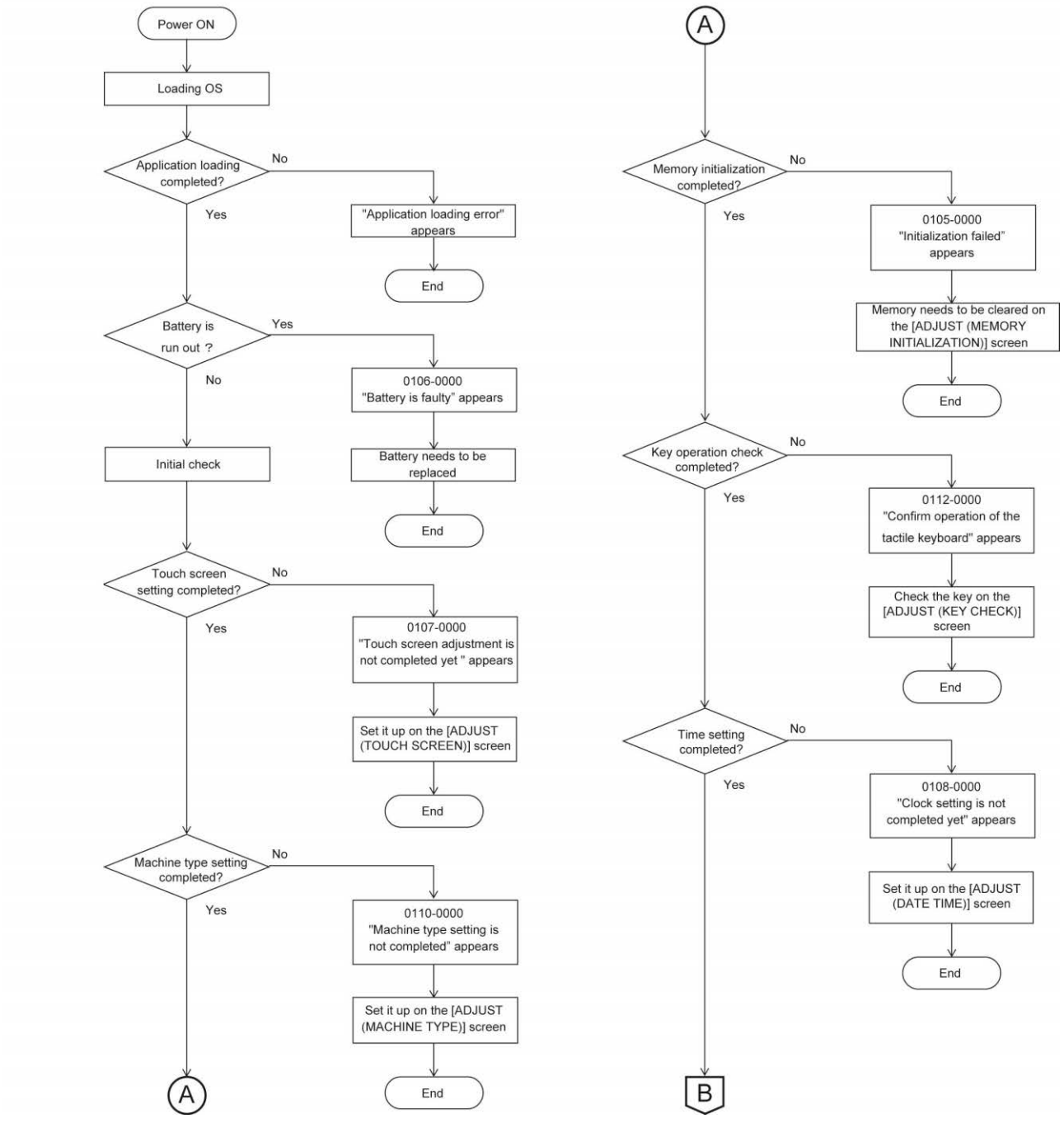


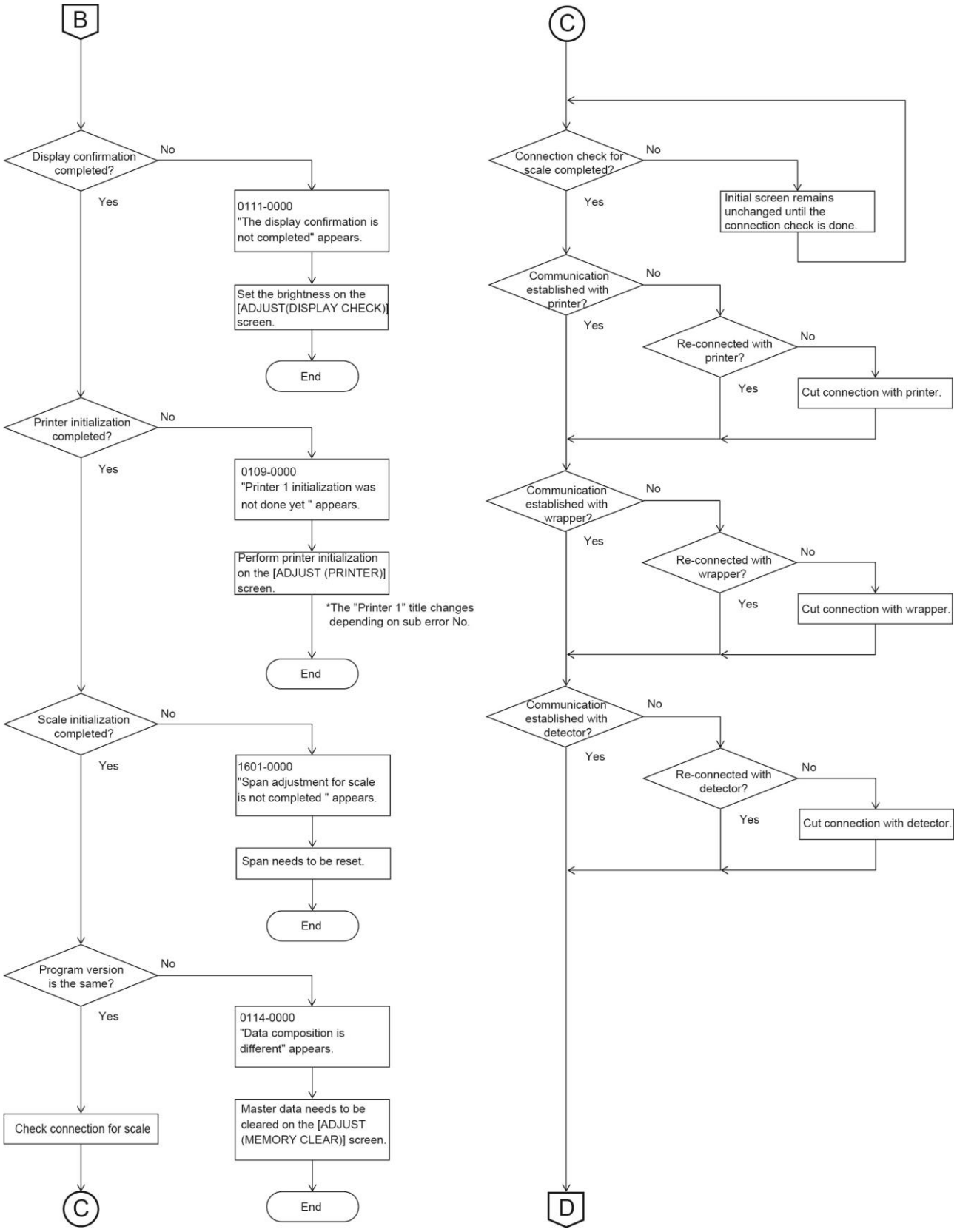
Error content	The called coupon master has not been registered.
Detail	Does not exist in the internal master.
Solution	[DELETE] button => Delete coupon No. of product master. [SET] button => Cancel error.
Action by user	Reconfirm the coupon master number. Add the coupon master.
Action by service representative	Confirm the master.
Related part	Main board
Remarks	・The called coupon No. is displayed. ・In the case of no coupon No. automatic update, product master is not changed. ・Error screen can be changed in link master error settings. ・Master name can be checked in "MENU TITLE (OPERATE) settings".

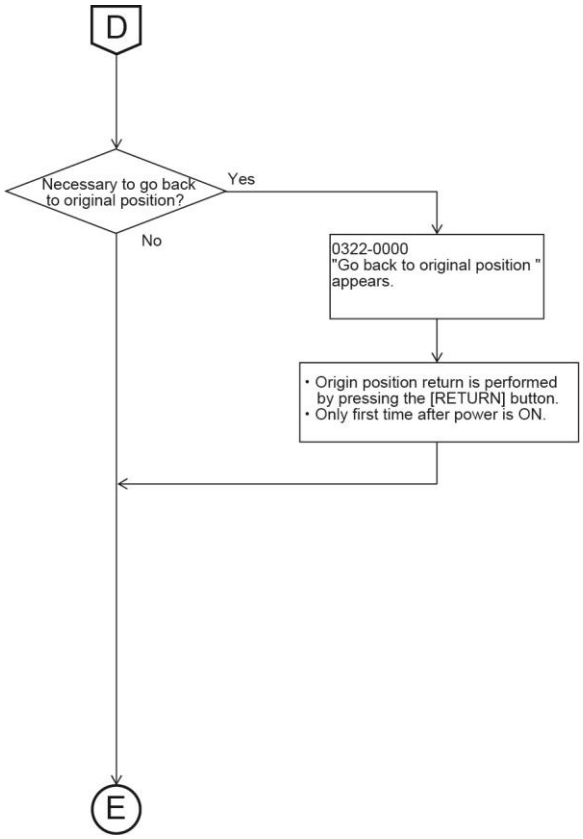
Chapter 7 Appendix

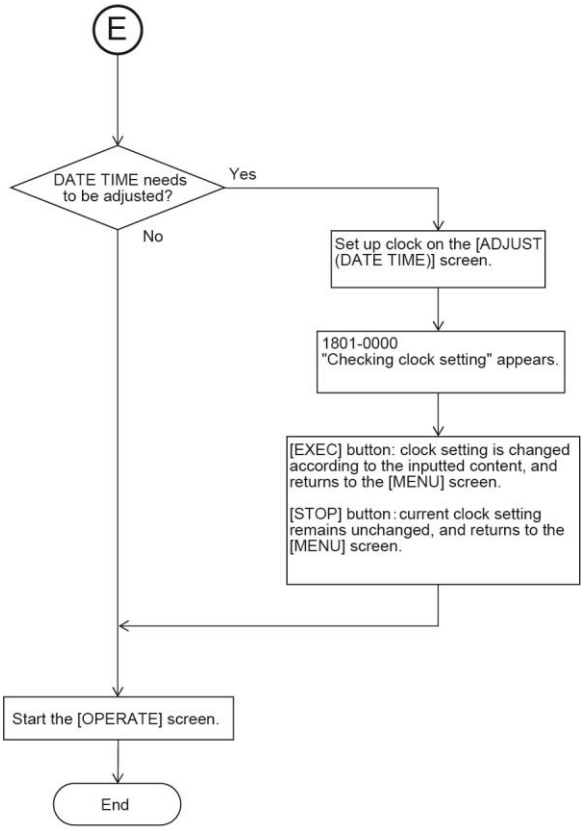
7.1 Operation Sequence

7.1.1 At Start-up

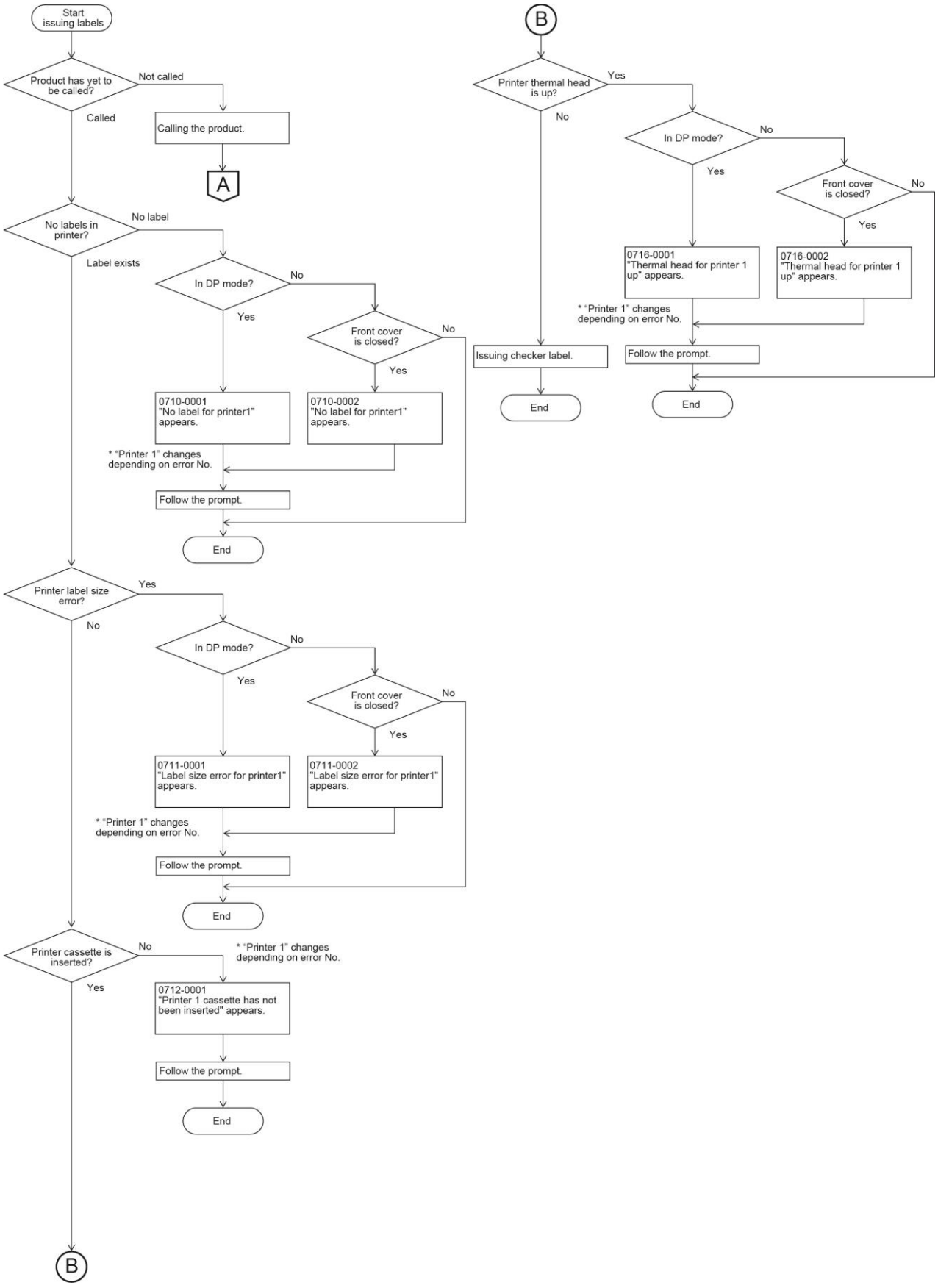


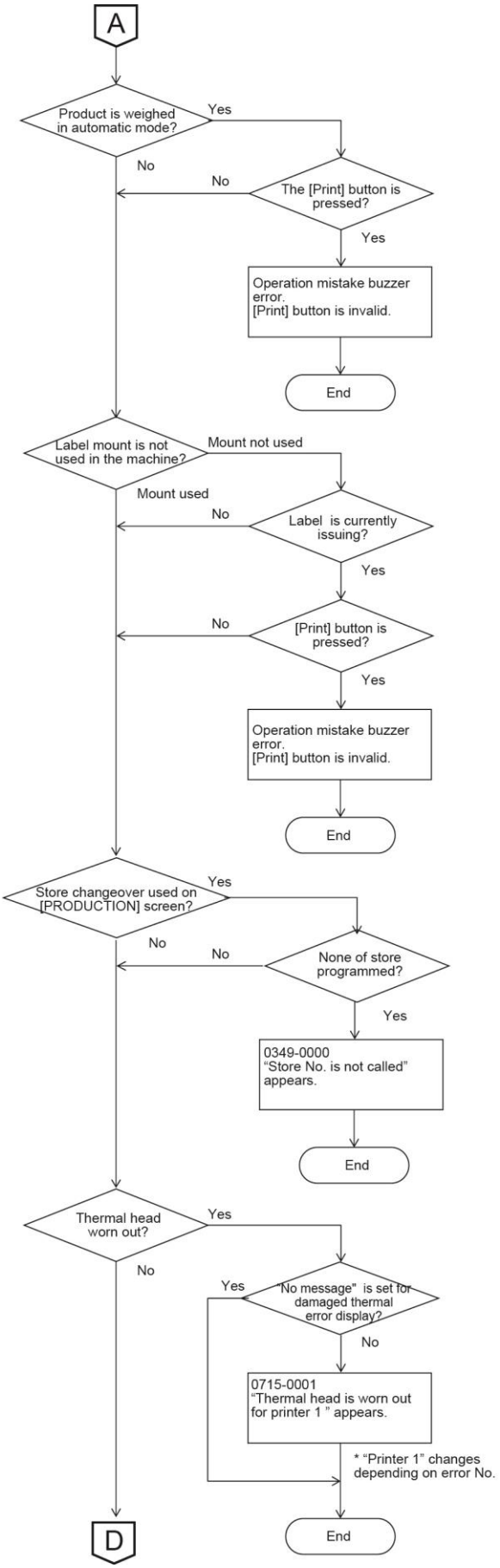

B
Display confirmation completed?
No
Yes
0111-0000
"The display confirmation is not completed" appears.
Set the brightness on the [ADJUST(DISPLAY CHECK)] screen.
End
Printer initialization completed?
No
Yes
0109-0000
"Printer 1 initialization was not done yet " appears.
Perform printer initialization on the [ADJUST (PRINTER)] screen.
*The "Printer 1" title changes depending on sub error No.
End
Scale initialization completed?
No
Yes
1601-0000
"Span adjustment for scale is not completed " appears.
Span needs to be reset.
End
Program version is the same?
No
Yes
0114-0000
"Data composition is different" appears.
Master data needs to be cleared on the [ADJUST (MEMORY CLEAR)] screen.
End
Check connection for scale
C
C
Connection check for scale completed?
No
Yes
Initial screen remains unchanged until the connection check is done.
Communication established with printer?
No
Yes
Re-connected with printer?
No
Yes
Cut connection with printer.
Communication established with wrapper?
No
Yes
Re-connected with wrapper?
No
Yes
Cut connection with wrapper.
Communication established with detector?
No
Yes
Re-connected with detector?
No
Yes
Cut connection with detector.
D

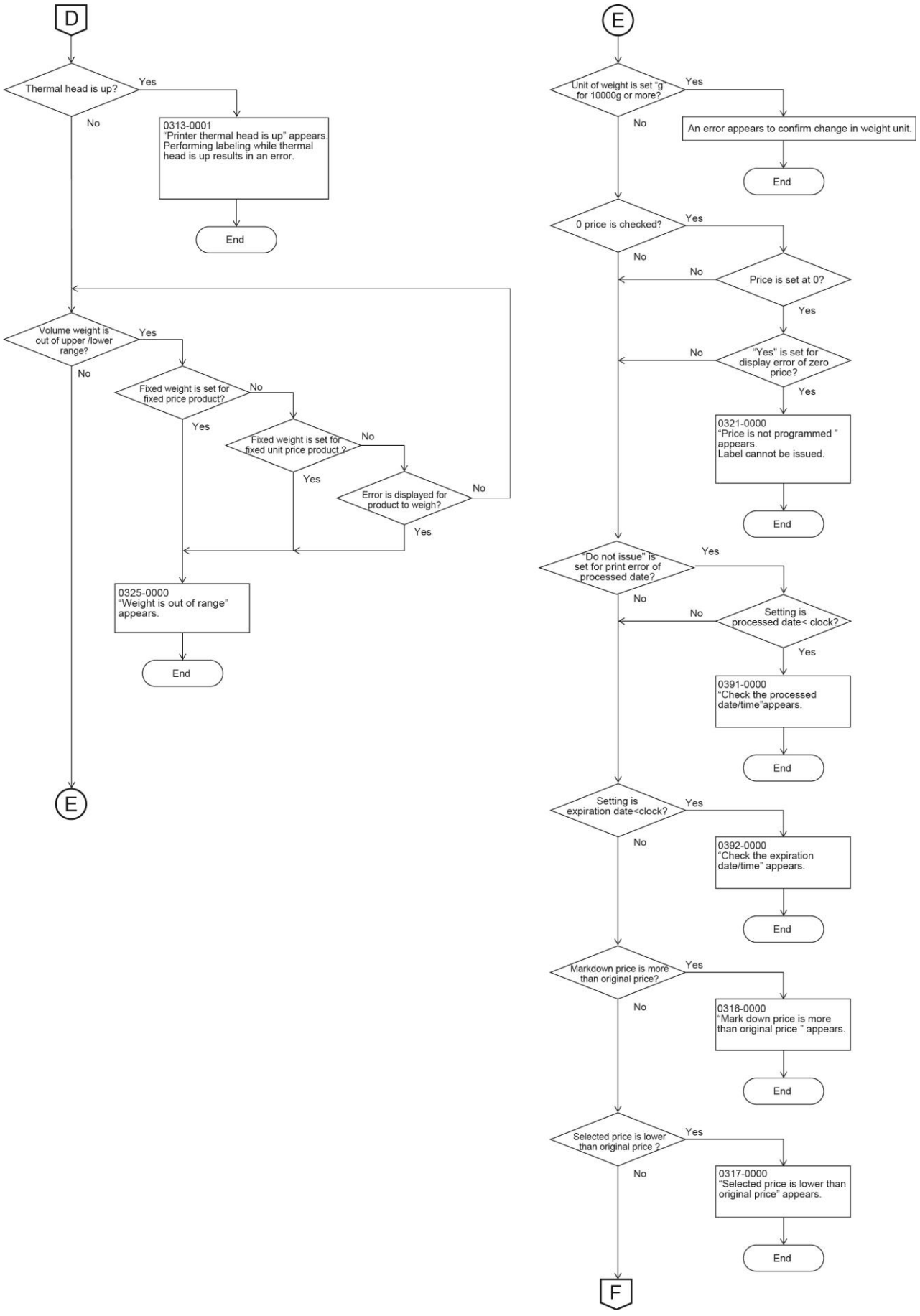

D
Necessary to go back to original position?
Yes
No
0322-0000
"Go back to original position " appears.
• Origin position return is performed by pressing the [RETURN] button.
• Only first time after power is ON.
E

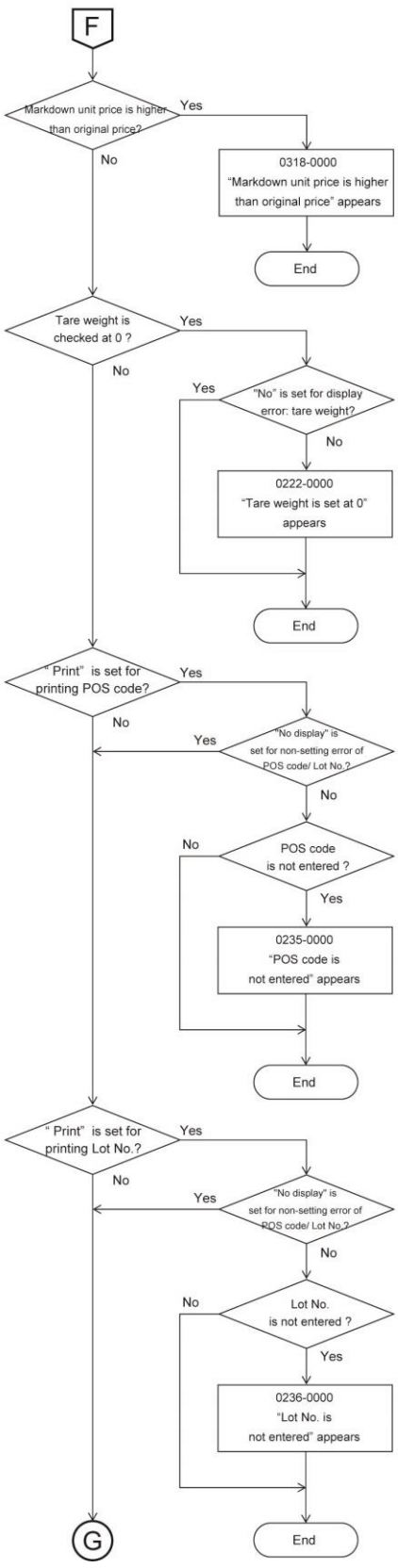

E
DATE TIME needs to be adjusted?
Yes
No
Set up clock on the [ADJUST (DATE TIME)] screen.
1801-0000
"Checking clock setting" appears.
[EXEC] button: clock setting is changed according to the inputted content, and returns to the [MENU] screen.
[STOP] button : current clock setting remains unchanged, and returns to the [MENU] screen.
Start the [OPERATE] screen.
End

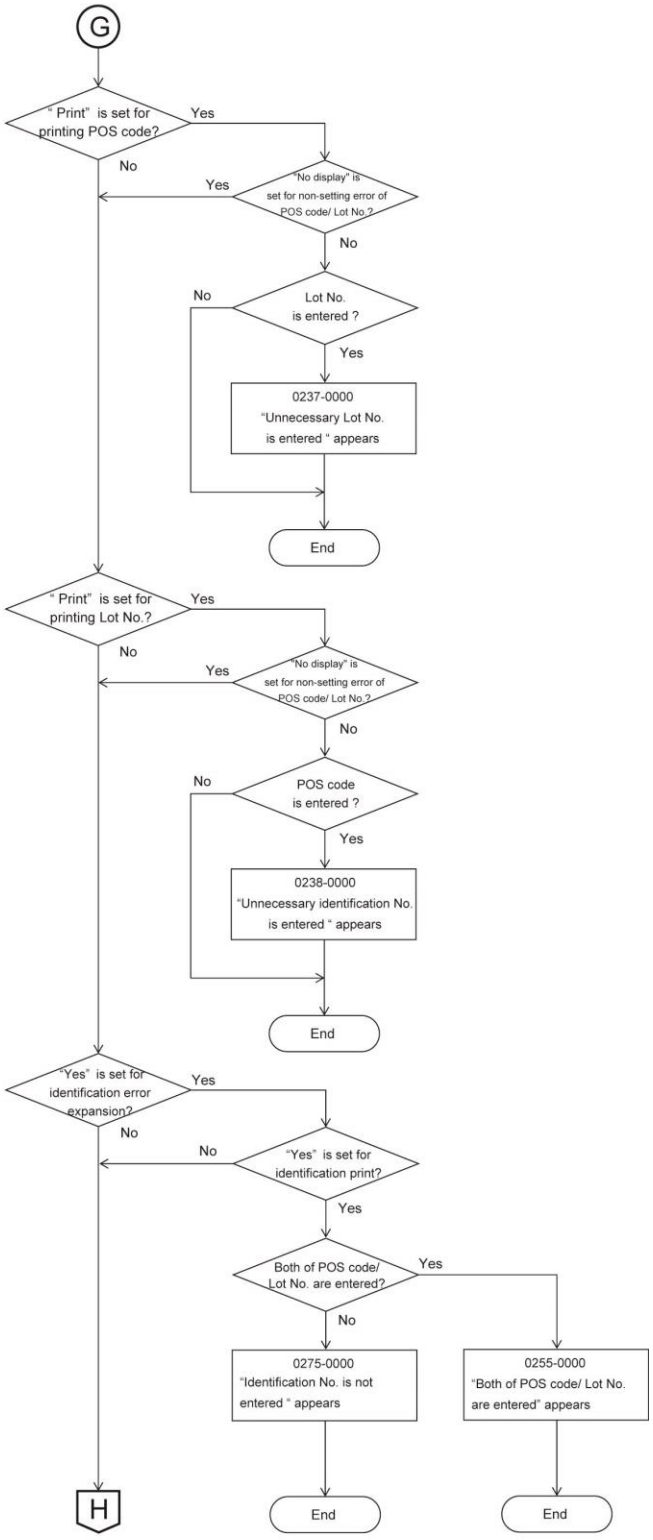
7.1.2 When Issuing Labels

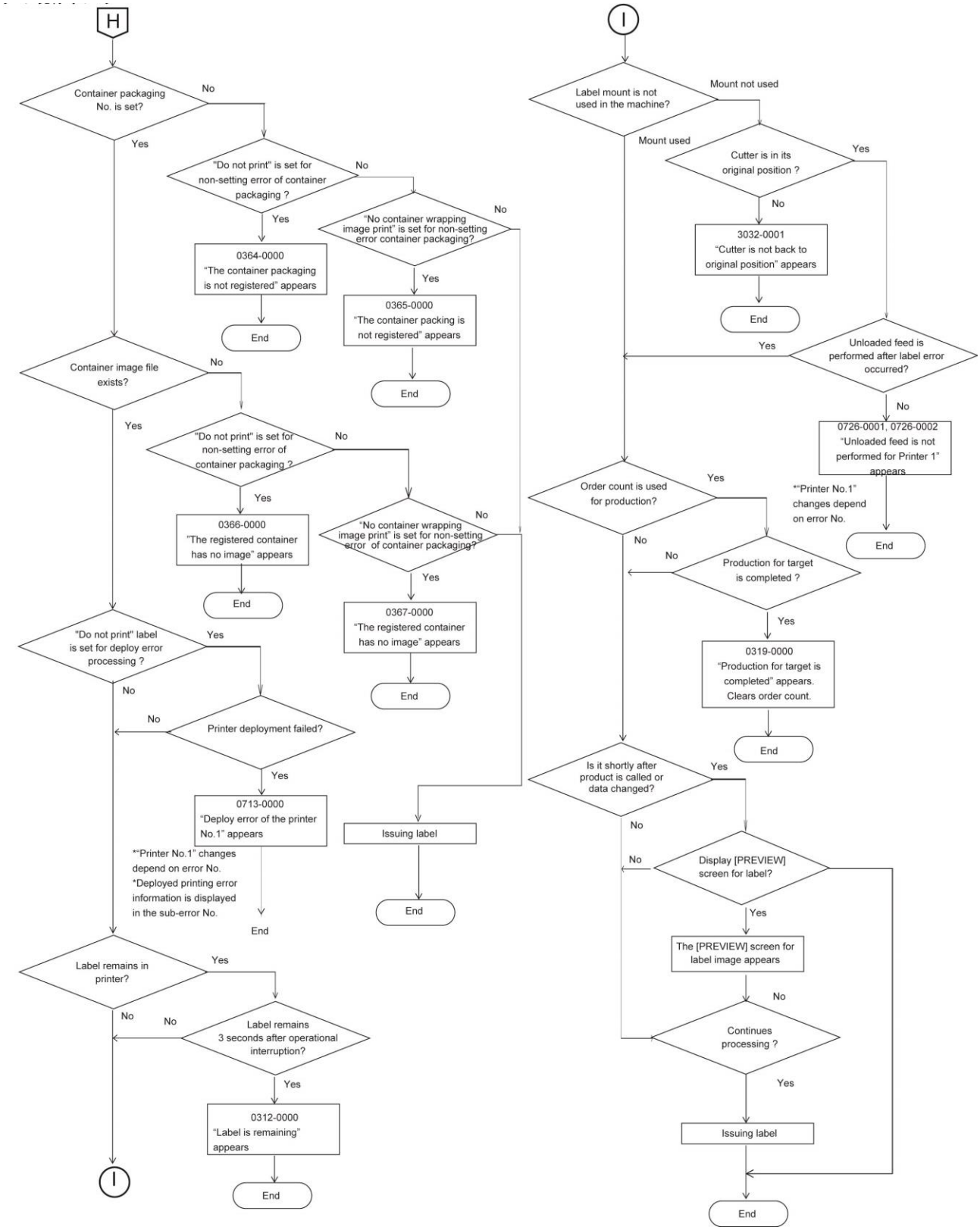



A
Product is weighed in automatic mode?
Yes
No
No
The [Print] button is pressed?
Yes
Operation mistake buzzer error.
[Print] button is invalid.
End
Label mount is not used in the machine?
Mount not used
Mount used
No
Label is currently issuing?
Yes
No
[Print] button is pressed?
Yes
Operation mistake buzzer error.
[Print] button is invalid.
End
Store changeover used on [PRODUCTION] screen?
Yes
No
No
None of store programmed?
Yes
0349-0000
"Store No. is not called" appears.
End
Thermal head worn out?
Yes
No
Yes
"No message" is set for damaged thermal error display?
No
0715-0001
"Thermal head is worn out for printer 1 " appears.
* "Printer 1" changes depending on error No.
End
D

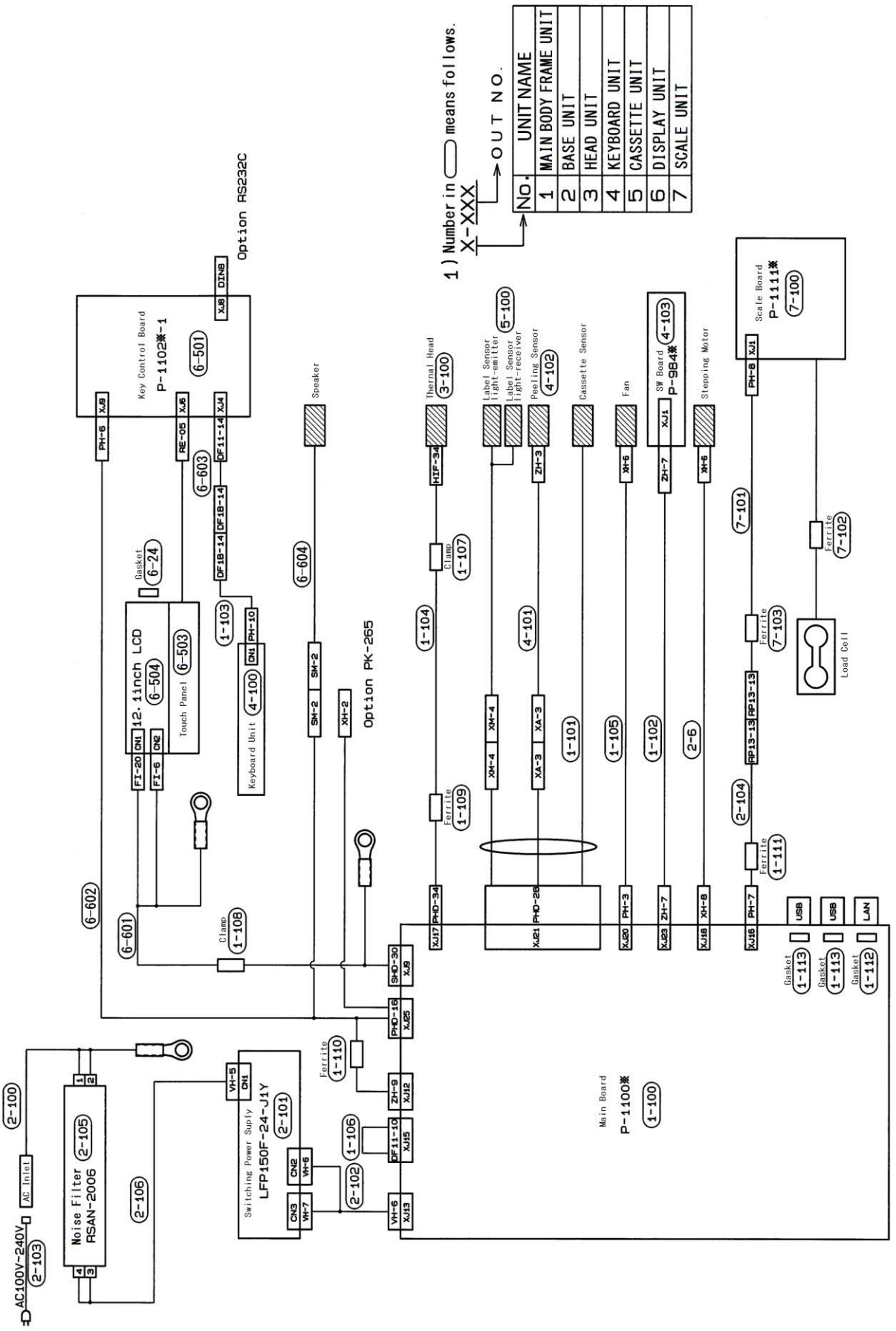

D
Thermal head is up?
Yes
No
0313-0001
"Printer thermal head is up" appears.
Performing labeling while thermal head is up results in an error.
End
Volume weight is out of upper /lower range?
Yes
No
Fixed weight is set for fixed price product?
No
Yes
Fixed weight is set for fixed unit price product ?
No
Yes
Error is displayed for product to weigh?
No
Yes
0325-0000
"Weight is out of range" appears.
End
E
E
Unit of weight is set "g" for 10000g or more?
Yes
No
An error appears to confirm change in weight unit.
End
0 price is checked?
Yes
No
No
Price is set at 0?
Yes
No
"Yes" is set for display error of zero price?
Yes
0321-0000
"Price is not programmed " appears.
Label cannot be issued.
End
"Do not issue" is set for print error of processed date?
Yes
No
No
Setting is processed date< clock?
Yes
0391-0000
"Check the processed date/time"appears.
End
Setting is expiration date<clock?
Yes
No
0392-0000
"Check the expiration date/time" appears.
End
Markdown price is more than original price?
Yes
No
0316-0000
"Mark down price is more than original price " appears.
End
Selected price is lower than original price ?
Yes
No
0317-0000
"Selected price is lower than original price" appears.
End
F


F
Markdown unit price is higher than original price?
Yes
No
0318-0000
"Markdown unit price is higher than original price" appears
End
Tare weight is checked at 0 ?
Yes
No
"No" is set for display error: tare weight?
Yes
No
0222-0000
"Tare weight is set at 0" appears
End
" Print" is set for printing POS code?
Yes
No
"No display" is set for non-setting error of POS code/ Lot No.?
Yes
No
POS code is not entered ?
No
Yes
0235-0000
"POS code is not entered" appears
End
" Print" is set for printing Lot No.?
Yes
No
"No display" is set for non-setting error of POS code/ Lot No.?
Yes
No
Lot No. is not entered ?
No
Yes
0236-0000
"Lot No. is not entered" appears
End
G


G
" Print" is set for printing POS code?
Yes
No
"No display" is set for non-setting error of POS code/ Lot No.?
Yes
No
Lot No. is entered ?
No
Yes
0237-0000
"Unnecessary Lot No. is entered " appears
End
" Print" is set for printing Lot No.?
Yes
No
"No display" is set for non-setting error of POS code/ Lot No.?
Yes
No
POS code is entered ?
No
Yes
0238-0000
"Unnecessary identification No. is entered " appears
End
"Yes" is set for identification error expansion?
Yes
No
"Yes" is set for identification print?
No
Yes
Both of POS code/ Lot No. are entered?
Yes
No
0275-0000
"Identification No. is not entered " appears
End
0255-0000
"Both of POS code/ Lot No. are entered" appears
End
H


H
Container packaging No. is set?
No
Yes
"Do not print" is set for non-setting error of container packaging ?
No
Yes
"No container wrapping image print" is set for non-setting error container packaging?
No
Yes
0364-0000
"The container packaging is not registered" appears
End
0365-0000
"The container packing is not registered" appears
End
Container image file exists?
No
Yes
"Do not print" is set for non-setting error of container packaging ?
No
Yes
"No container wrapping image print" is set for non-setting error of container packaging?
No
Yes
0366-0000
"The registered container has no image" appears
End
0367-0000
"The registered container has no image" appears
End
"Do not print" label is set for deploy error processing ?
Yes
No
Printer deployment failed?
No
Yes
0713-0000
"Deploy error of the printer No.1" appears
*"Printer No.1" changes depend on error No.
*Deployed printing error information is displayed in the sub-error No.
End
Issuing label
End
Label remains in printer?
Yes
No
Label remains 3 seconds after operational interruption?
No
Yes
0312-0000
"Label is remaining" appears
End
I
I
Label mount is not used in the machine?
Mount not used
Mount used
Cutter is in its original position ?
Yes
No
3032-0001
"Cutter is not back to original position" appears
End
Yes
Unloaded feed is performed after label error occurred?
No
0726-0001, 0726-0002
"Unloaded feed is not performed for Printer 1" appears
*"Printer No.1" changes depend on error No.
End
Order count is used for production?
Yes
No
No
Production for target is completed ?
Yes
0319-0000
"Production for target is completed" appears. Clears order count.
End
Is it shortly after product is called or data changed?
Yes
No
No
Display [PREVIEW] screen for label?
Yes
The [PREVIEW] screen for label image appears
No
Continues processing ?
Yes
Issuing label
End

7.2 Wiring Diagrams



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