

Issued by Canon Europa N.V.

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**Model:**

iR2270  
iR2870  
iR3530  
iR3570  
iR4570

**Ref No.:**

iR4570-015  
(F1-T01-0M4-10046-01)

**Date:**

25-03-05

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**Location:**

CONTROLLER BOX ASSEMBLY

**Subject:**

Countermeasures when nothing is displayed on control panel.

**Detail:**

<Symptom>

Nothing is displayed on the control panel.

<Cause>

A part of the pins [2] of the connector (J1013) [1] on the main controller shorts out on rare occasion due to a very thin solder film (refer to [About very thin solder film] for details), causing an error during an initial operation check after power-on. As a result, the machine fails to be "READY" mode.

<About very thin solder film>

A very thin solder film, tinned crystal whisker, is a few  $\mu\text{m}$  long and 2  $\mu\text{m}$  in diameter. It appears on tinned parts on rare occasion and causes a short if it adheres to a terminal or between wires. Normally, there is no problem even if a short occurs due to the thin solder film because it is melted in an instant after the specific amount of current or more flows.

For this connector, there is no problem even if a short occurs due to the thin solder film as long as the option board is connected because it is melted when a current flows. If the option board is not connected, however, the thin solder film is not melted because a current value is low.

## &lt;Factory Measures&gt;

The connector pin [2] is changed to gold plating to prevent occurrence of a very thin solder film.



F-1

[1] Connector (J1013)

[2] Pin Previous type: Silver New type: Gold

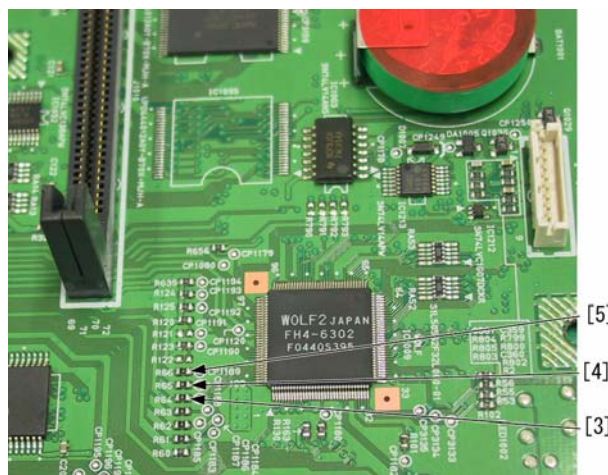
**Servicing Work:**

The resistor switch board (FH9-0807-000) is newly set up as a service part to melt the thin solder film adhering to the connector pin.

Perform the following steps to attach the resistor switch board if the foregoing symptom has occurred in the field.

<How to attach the resistor switch board>

1. Remove the rear cover.
2. Measure output voltage of the resistors R64 [3], R65 [4], and R66 [5] on the main controller while the power is ON. If any of the resistors does not output 3.3V and the value drops to 0V, it means that the connector pin shorted out. In this case, perform the step 3 and later. If all resistors outputs 3.3V, examine the LCD and other cause.



[3] Resistor R64

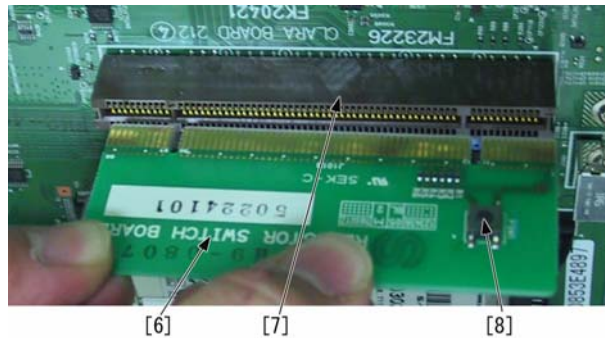
[4] Resistor R65

[5] Resistor R66

3. Turn OFF the power.
4. Attach the resistor switch board [6] to the connector (J1013) [7] as shown below.
5. Turn ON the power, and check if the control panel is displayed. If display on the control panel is normal, end here.
6. If nothing is displayed on the control panel, there is a possibility that the thin solder film is not melted yet. Press the switch [8] on the resistor switch board for 2 sec. while the power is ON, and then turn OFF and back ON the power. Check if the control panel is displayed.

<Caution>

The main controller may get damaged due to an overcurrent if the switch [8] is pressed long.



F-2

#### Service Parts:

No		DESCRIPTION	PART NO.	Q'TY	I.C.	P.C.
1	OLD					
	NEW	BOARD, RESISTOR SWITCH	FH9-0807-000	0->1		
2	OLD	MAIN CONTROLLER PCB ASSEMBLY	FM2-3226-000	1->0	N	900
	NEW	MAIN CONTROLLER PCB ASSEMBLY	FM2-4550-000	0->1	Y	

#### Affected Machines:

iR4570 230V EUR KFQ01612 and later  
iR3570 230V EUR KFW02979 and later  
iR2870 230V EUR KGD01042 and later  
iR2270 230V EUR KGL05955 and later  
iR3530 230V EUR KJH00004 and later