

**Model:**

iR5570  
iR6570

**Ref No.:**

iR6570-012  
(F1-T01-0M5-10037-01)

**Date:**

December, 2005

**Location:**

IH Power/ Potential Sensor PCB Assembly

**Subject:**

Countermeasure against error "E061", caused by the trapped Potential Sensor Harness

**Detail:**

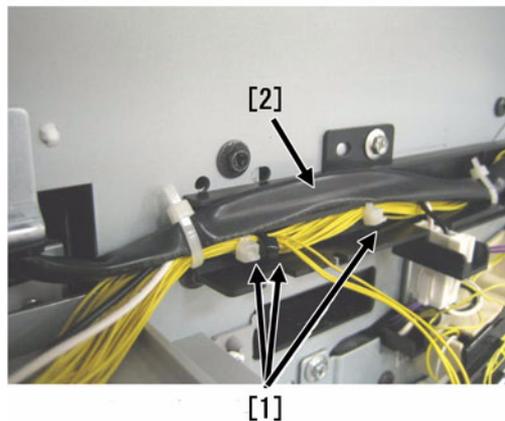
<Symptom>

Blank image or dark fogging image (including blank areas) and E061-0001/0002 errors occur.

<Cause>

When a Potential Sensor Harness [2] is trapped between the Hopper and the heads of tie-wraps, which hold the Harness Unit (front) mounted on the same cable guide as the Potential Sensor Harness is mounted on, its coating is fallen off and leads to short out (P-2).

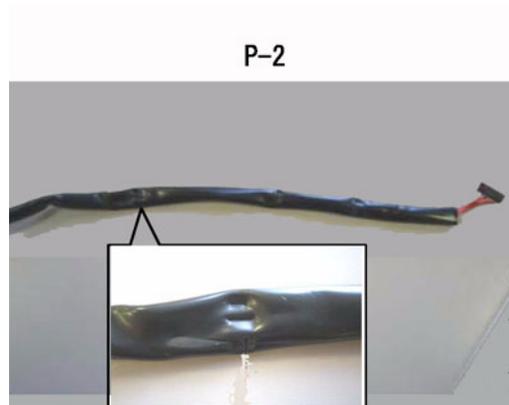
P-1



P-1 Location where the Harness is caught in

[1] Locations of tie-wraps

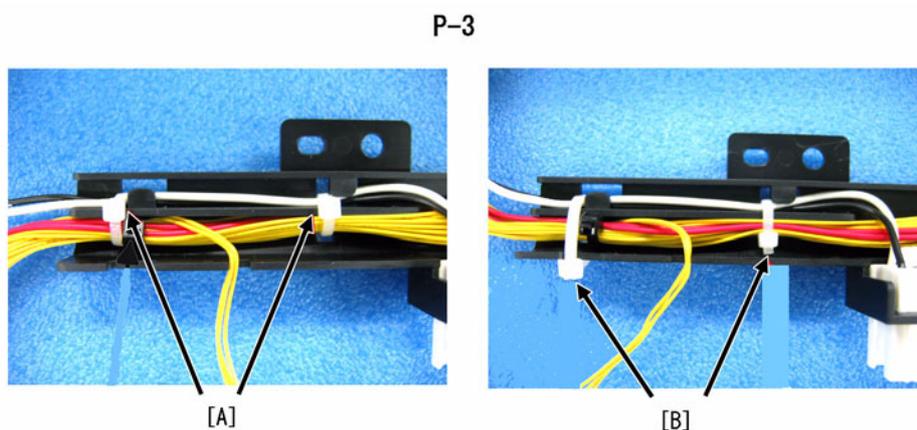
[2] Potential Sensor Harness



P-2 A zoomed-in view of the cable caught in

<Factory work>

Change the direction of the heads of tie-wraps so that the Harness will not be caught in.



F-1

P-3 Location of heads of tie-wraps

[A] Before have taken the measure: The heads of tie-wraps face forward.

[B] After have taken the measure: The heads of tie-wraps face downward.

#### Service work:

When the symptom above occurs, take measures according to the following procedure.

1. In order to judge if the Potential Sensor Harness shorts out, perform continuity check of the harness using a tester.

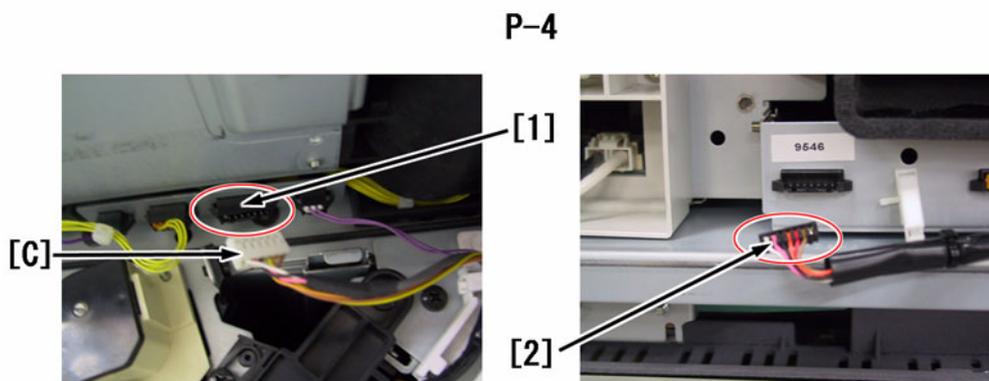
Note: When performing continuity check, if you remove the Hopper Unit or the Harness to measure, you may not be able to get an accurate result on the short state. Therefore, perform the continuity check according to the following procedure so that the situation of error occurrence in the Harness can be kept.

- a. Refer to "Service Manual > Image Formation > 7.10.1.1 Removing the primary fan Duct.
- b. Remove the Connector [C] of the Potential Sensor Harness.
- c. Refer to "Service Manual > Image Formation > 7.10.17.4 Removing the Fixing Heater Power Supply Unit.
- d. Remove the Connector [2] of the Potential Control PCB.
- e. Check the continuity of the black and white cable/ black and pink cable/ white and pink cable, all of which are supposed to be connected to the Connector [2] removed at step d. If any cable shorts out, conduct the procedure 2.

2. When the Potential Sensor Harness shorts out

- a. Refer to "Service Manual > Image Formation > 7.10.17 Potential Sensor Unit and replace the Potential Control PCB Support Plate Unit (Potential Control PCB + Potential Sensor Harness + Potential Sensor) by a new one.
- b. Change the direction of the heads of tie-wraps, which hold the Harness Unit (front) mounted on the same Cable Guide as the Potential Sensor Harness is mounted on, to let the heads face downward as shown in P-3 (so that the Potential Sensor Harness is not pushed by the heads of tie-wraps when the Hopper Unit is mounted).
- c. Return the Hopper Unit and connectors to the original positions so that the machine can make a copy.
- d. Input "1" under Service Mode > COPIER > FUNCTION > DPC > DPC, press the OK key and switch the Main power off and on so as to forcibly execute the Potential Control (it is because there is a possibility to output while the abnormal potential control value remains backed up).

Reference: In this machine, the potential control is conducted (Recovery Mode) at power-on if the temperature of the Fixing Assembly is 70 degrees Celsius or higher. Therefore, when replacing the Photo-Sensitive Drum or Laser Unit, or changing the setting of Drum potential, please execute this mode.



P-4 Continuity check of harness

[C] Connector of Potential Sensor Harness

[1] Potential Control PCB Connector (female)

[2] Potential Sensor Harness connector on Potential Control PCB side (male)

**Affected Machines:**

iR6570 120V SLP00163 and later

iR5570 120V SLQ00412 and later

iR6570 230V KHP00126 and later

iR5570 230V KHU00327 and later