

Bulletin: COLOR-115 Date: 11/20/2008

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Models: e-STUDIO 6530c Series

Subject: C4E2 Error Code

Overview

On certain serial number machines the one-way bearing (6LH07583000 GEAR-8H23-OWC-N) for the fuser drive could slip causing the fuser not to rotate at the correct speed during the standby mode.

Detail

Some dealerships have received eStudio6530c Series machines that could require the one-way bearing to be replaced. To be proactive and prevent a possible future service call, we are automatically sending those dealerships new one-way bearings for the fuser drive unit to prevent the error.

Please replace the one-way bearing according to the instructions provided during set up or the next service call.

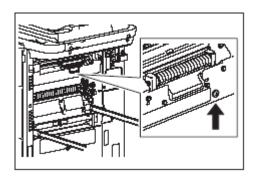
A new one-way bearing has been applied to production since the following serial numbers:

eStudio5520c - CSJ810484 eStudio6520c - CTK810324 eStudio6530c - CUK810307

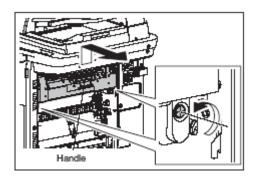
The new one-way bearing can be identified by a black dot on the plastic surface.

Procedure:

- 1. Shut down the machine and unplug the power cord.
- 2. Remove the Fuser unit
 - 2.1 Open the duplexing unit.
 - 2.2 Remove 1 screw (RED) and release the lock of the grip handle.

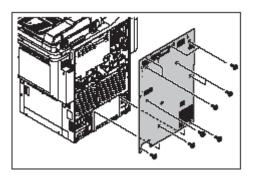


2.3 - Loosen 2 screws and then take off the fuser unit by holding its grip handle.



3. Remove the rear cover

3.1 – Remove 10 screws and remove the rear cover.



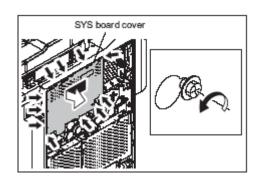
4. Open the SYS Board Case

4.1 - Remove Network interface cable cover and cable if connected.



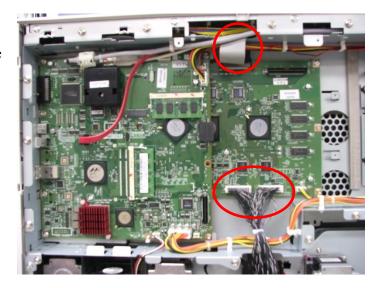


4.2 - Loosen but do not remove 11 screws and remove the SYS board cover by sliding it to the right then pull out.



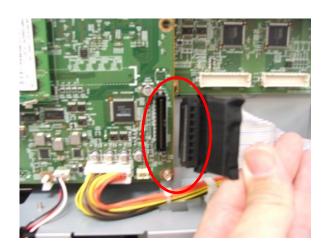
4.3 - Disconnect 3 connectors on the IMG board.

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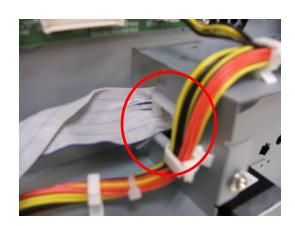


If the Fax option is installed complete steps 4.4 thru 4.6. Otherwise proceed to step 4.7.

4.4 - Disconnect 1 connector on the SYS board.



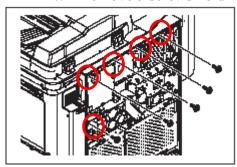
4.5 - Carefully remove ribbon cable from the frame clip.



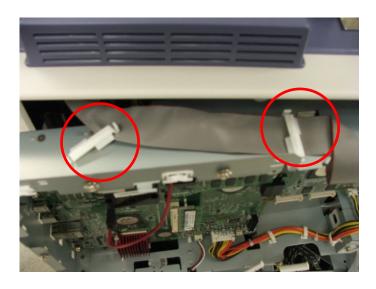
4.6 - Release cable clamp from bottom of SYS board case.



4.7 - Remove 5 screws holding the SYS Board case.

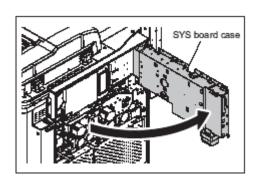


4.8 - Open the SYS board case slightly. Then release the harness from 2 clamps and remove the harness from the SYS board case.



4.9 - Open the SYS board case approximately 90 degrees.

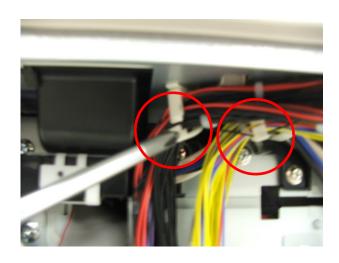
Note: To avoid damage to the wires, open the board case gently while making sure all wiring is clear of the case.



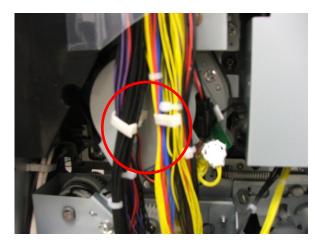


5. Remove the exit paper cooling fan (rear)

5.1 - Release the harnesses from 2 clamps at the top.



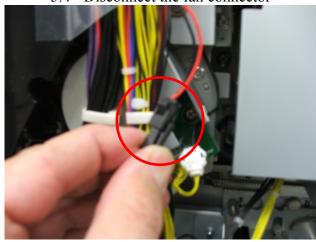
5.2 - Release the harnesses from 2 clamps on the fuser drive motor housing.



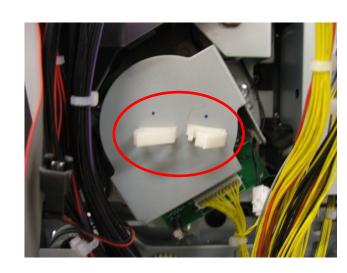
5.3 -Lift Mylar shield and remove wires from the fan housing.



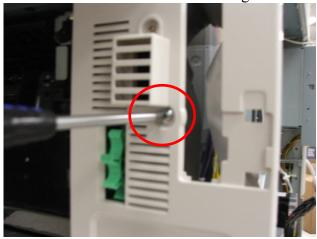
5.4 - Disconnect the fan connector



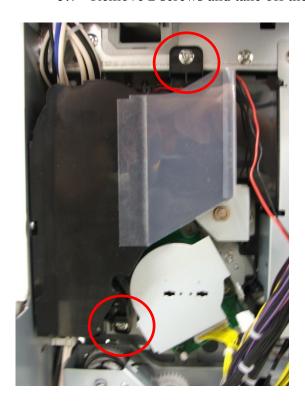
5.5 - Remove 2 cable clamps by pushing in and turning clamp until aligned with keyed hole then pull out.



5.6 - Remove the fan mounting screw located in the Left Rear cover.

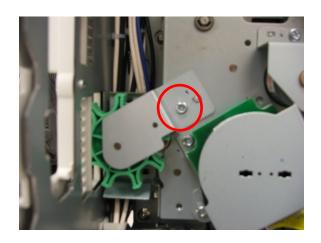


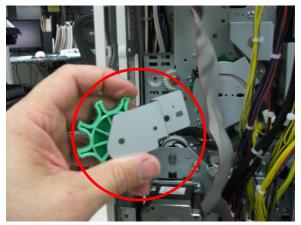
5.7 - Remove 2 screws and take off the duct.



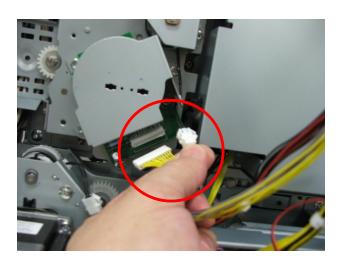
6. Remove fuser drive unit

6.1 - Remove 1 screw and take off the bracket of the handle.

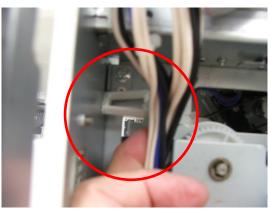




6.2 -Disconnect 2 connectors.



6.3 - Remove wires from frame clip and remove the clip by rotating it until the key lines up with the hole.

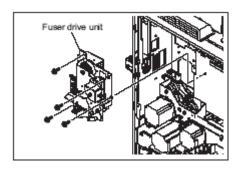


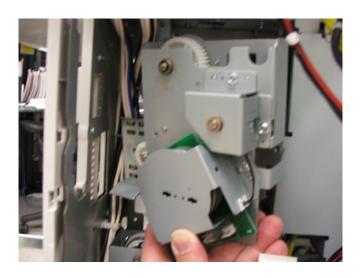


6.4 - Remove 4 screws and carefully remove the fuser drive unit by lifting up and rotating.

Notes:

- a. Use caution not to drop the screws when removing screws in this area as a dropped screw could fall onto the power supply.
- b. Remove this assembly gently so as not to damage fuser drive gears.



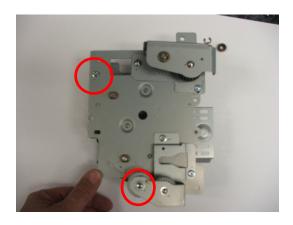


7. Replace One Way Gear

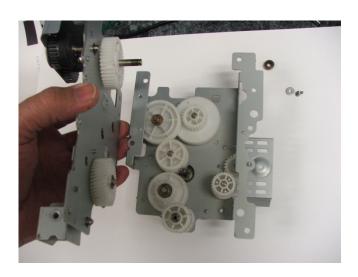
7.1 - Place drive unit on workspace with the motor facing up. Remove E-clip and bushing in the location indicated in the following illustration.



7.2 - Turn the drive unit over and remove the 2 screws shown here.



7.3- Carefully remove the top plate and set it aside.



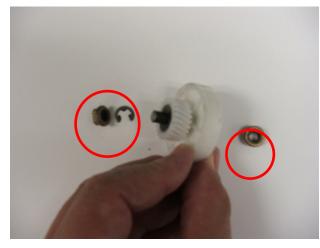
7.4 - Remove the one way gear assembly from the drive unit.



7.5 - Remove 2 bushing and one E-clip from the ends of the shaft.

Notes:

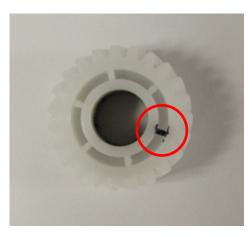
a. Be careful not to lose the pin in the bottom of the large gear. Once the e-clip is removed, the shaft may slip out allowing the pin to fall out.b. The bottom bushing may have remained in the frame of the drive unit.



7.6 - Remove and discard the gear containing the one way bearing.



7.7 - Confirm the new replacement gear by locating the Black dot on the back side of the gear.



7.8 - Install the new one way clutch with the metal side facing out and replace the E-clip.



7.9 - Insert the bushing into the hole in drive unit frame.



7.10 - Reinstall the gear into the drive assembly



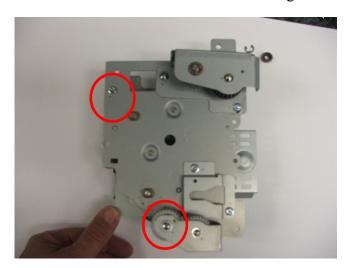


7.11 – Reinstall the bushing on the shaft with keyed side facing up and replace top half of the drive assembly. Be careful to align both bushings with keyed holes.





7.12 - Reinstall the 2 screws holding the two halves of the drive unit together.

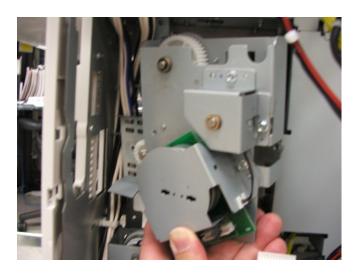


7.13 -Turn the Drive Unit over and reinstall the bushing and E-clip.



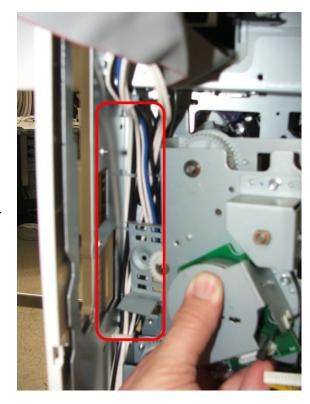
8. Reassemble

8.1 - Reinstall the drive assembly into the machine. **Note:** Use caution not to pinch the wires when installing the drive unit.



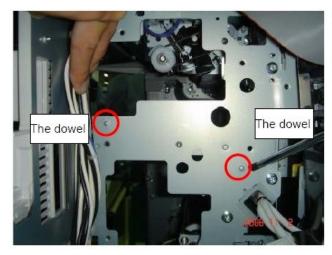
Note: Rear plate of the drive unit should be installed behind wires while outer plate goes in front as shown here.

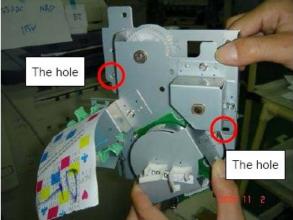
Warning! Do not allow wires to get pinched under the drive unit. This could cause electrical shock and or fire when power is applied.



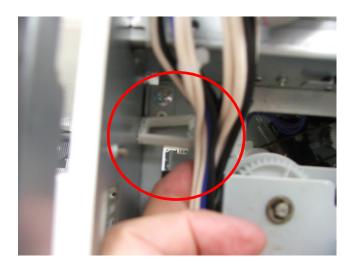
8.2 - Reinstall 4 screws.

Note: Confirm that 2 aligning dowls are correctly positioned in the holes before tightening the screws.





8.3 - Reinstall the frame clip for wire harness and insert the wires into the clip.



8.4 - Reassemble remaining components by returning to step 6.2 and reversing steps used to disassemble.

Note: To prevent errors be sure to confirm that all connectors are firmly seated and all wires are correctly routed before turning the machine on.