Code	Description
[Copier]	
E000	Heater temperature fault (fails to increase)
E001	Overheating detection error
E002	Heater temperature error (fails to reach specific level; inadequate increase)
E003	Heater temperature error (abnormal drop; low-temperature detection)
E007	Fixing film rotation error
E010	Main motor rotation error
E014	Fixing motor rotation error
E019	Waste toner case full, sensor error
E032	DA unit communication error
E051	Horizontal registration HP detention error
E064	Power supply voltage error (high-voltage error)
E100	Laser BD error
E110	Polygon motor rotation error
E202	No. 1 mirror base HP detecting error
E204	ADF image leading edge signal detection fault (absent)
E220	Lamp ON error
E225	Standard white plate/edge white plate read error
E240	Mcon-Dcon communication error
E243	Mcon-control panel communication error
E248	Backup (EEPROM) error
E261	Zero-cross signal error
E302	Shading error
E315	Image data processing error
E601	Image transfer error
E602	Hard disk error
E604	Image memory fault
E605	Image memory battery fault
E606	HDD error
E674	Fax board error
E677	PDL board mounting error
E710	IPC initialization error (Rcon)
E711	IPC register error (ctrl)
E712	Communication error (with ADF)
E713	Communication error (with sorter finisher)
E716	Communication error (with pedestal)
E717	Communication error (with ASSIST)
E719	Card reader, coin vendor communication error
E732	Reader communication error
E733	Printer communication error
E737	SDRAM error
E740	Ethernet board error
E741	PCI bus error
E742	RIP1 board error
E743	Mcon-Rcon communication error (Rcon detection)
E803	MPWS power supply voltage error (low voltage error)
E805	Fan rotation error
E901	Pedestal main motor rotation error
[ADF]	
E420	Back-up data read error
E421	Back-up data write error
E422	IPC error
[Saddle Finisher-G1]	
E501	Communication error (Punch unit)
E505	Back-up RAM
E510	Feed motor
E514	Delivery motor
E530	Width plate shift motor
E531	Stapler motor
E532	Stapler slide motor
E537	Alignment motor
E540	Tray ascent/descent motor
E577	Paddle motor
E590	Puncher motor
E592	Puncher sensor error
E593	Puncher shift motor
E5F1	Saddle folder motor
[Finisher-J1]	
E500	Communication error
E514	Stack handling motor
E530	Rear alignment motor
E531	Stapler motor
E537	Front alignment motor
E577	Delivery motor
E580	Delivery tray ascent/descent motor
E585	Stack handling error

1.1 Detail Codes (copier)

E000

0000 The reading of the main thermistor does not reach 30°C 1 sec after the main power switch is turned on. Or, it does not reach 70°C 2 sec thereafter.

Main cause The fixing film unit is faulty. The main thermistor has an open circuit. The fixing heater has an open circuit. The main power supply PCB is faulty. The DC controller PCB is faulty.

Caution To reset the error, execute the following in service mode: COPIER>FUNCTION>CLEAR>ERR.

Action

1. Connector

Is the connector of the fixing assembly connected?

a. main power supply PCB (J8) <-> relay connector <-> heater
b. DC controller PCB (J320) <-> relay connector <-> thermistor

NO: Connect the connector.

2. Fixing film unit (thermistor)

Check the interval between pin 1 and pin 2 and between pin 3 and pin 4 of the connectosr (4-pin) of the thermistor for electrical continuity. Is it ∞Ω (open)?

YES: The heater has an open circuit, or the thermal switch is open. Replace the fixing film unit.

4. Main power supply PCB, DC controller PCB

Press the Start key. Is the drive voltage of the heater supplied by the connector J8 of the main power supply PCB?

Main heater: between J8-1 (FSR1) and J8-5 (FSR COM)

Sub heater: between J8-3 (FSR2) and J8-5 (FSR COM)

YES: The heater drive power supply is faulty. Replace the main power supply PCB.

NO: The thermistor control mechanism is faulty. Replace the DC controller PCB.

E001

0000	The main thermistor detects 250°C or higher.
0001	The main thermistor or the sub thermistor detects overheating (hardware circuit detection).
0002	The sub thermistor detects about 295°C or higher.
Main cause	The fixing film unit is faulty (i.e., the thermistor has a short circuit). The main power supply PCB is faulty. The DC controller PCB is faulty.
Caution	To clear the error, execute the following in service move: COPIER>FUNCTION>CLEAR>ERR.

Action

1. Fixing film unit

Check the interval between pin 1 and pin 2 and between pin 3 and pin 4 of the connectors (4-pin) of the thermistor for electrical continuity. Is it 0 Ω (short circuit)?

YES: The thermistor has a short circuit. Replace the fixing film unit.

If the thermistor has a short circuit, the indication in service mode (COPIER>DISPLAY>ANALOG) will be as follows from the start: FIX-C=250°C for the main thermistor; FIX-E=310°C for the sub thermistor.

2. Main power supply PCB, DC controller PCB

Try replacing the main power supply PCB. Is the problem corrected?

YES: End.

NO: Replace the DC controller PCB.

E002

0000	The temperature of the fixing film is as follows: 1. has exceeded 100°C, but does not reach 115°C within 1 sec thereafter. 2. has exceeded 140°C, but does not reach 150°C within 1 sec thereafter. 3. has exceeded 160°C, but does not reach 165°C within 1 sec thereafter.
Main cause	The fixing film unit is faulty (i.e., the main thermistor TH1 has poor contact, or the fixing heater is faulty). The main power supply PCB is faulty. The DC controller PCB is faulty.
Caution	To clear the error, execute the following in service mode: COPIER>FUNCTION>FCLEAR>ERR.
Action	See the description for E003.

E003

0000	The main thermistor reading is lower than 140°C when paper is moved.
Main cause	The fixing film unit is faulty (i.e., the main thermistor (TH1) has poor contact or has an open circuit; or, the fixing heater is faulty). The main power supply PCB is faulty. The DC controller PCB is faulty.
Caution	To clear the error, execute the following in service mode: COPIER>FUNCTION>CLEAR>ERR.

Action

1. State

Turn on the power switch, and clear E002/E003. Thereafter, turn off and then on the power switch. Does the fixing heater operate?

NO: See “The fixing heater fails to operate.”

2. Wiring

Is the wiring from the DC controller PCB to the fixing film unit normal?

NO: Correct the wiring.

3. Fixing film unit, DC controller PCB

Try replacing the fixing film unit. Is the problem corrected?

YES: End.

NO: Replace the DC controller PCB.

E007

0000	An error in the rotation of the fixing film is detected. The reading of the main thermistor is 100°C or higher and, in addition, the fixing film sensor does not detect the rotation of the film for 6 sec or more while the fixing motor is driven.
Main cause	The fixing film sensor (PS45) is faulty. The DC controller PCB is faulty.
Caution	To clear the error, execute the following in service mode: COPIER>FUNCTION>CLEAR>ERR.

Action

1. Wiring

Are the wring and the connectors connected securely?
DC controller PCB (J311) <-> relay connector <-> fixing film sensor
NO: Connect the wiring and the connectors.

2. Fixing film sensor

Check the fixing film rotation signal.When the fixing motor is rotating, is the film rotation detection signal sent by the fixing film sensor to the concoctor J311 of the DC controller PCB?
Film rotation detection signal: 5V pulse signal between J311-A9 (FILM_ROT_D) and J311-A8 (GND); at intervals of 100 msec ON and 440 msec OFF
NO: If the fixing film is normal, replace the sensor.

3. Fixing film unit, DC controller PCB

Is there a fault in the fixing film edge rotation detection mechanism?
YES: Replace the fixing film unit.
NO: Replace the DC controller PCB.

E010

0000 After the main motor drive signal is generated, the clock signal does to arrive within 1.3 sec.

Main cause The main motor (M2) is faulty. the DC controller PCB is faulty.

Action

1. Connector

Is the connector of the main motor connected?

NO: Connect the connector.

2. Main power supply PCB

Is the drive voltage (24 V) of the main motor supplied by the main power supply PCB?

Main power supply PCB: between J202-1 (24VU1-SW) and J202-2 (OVU1)

NO: Replace the main power supply PCB.

3. Main controller (M2), DC controller PCB

Press the Start key. Is the lock signal of the main motor present at the connector J308 on the DC controller PCB?

Lock signal: J318-A10 (MM_LOCK)

YES: Replace the main motor.

NO: Check the wiring; if normal, replace the DC controller PCB.

E014

000 After the fixing motor drive signal is generated, the clock signal does not arrive within 1.3 sec.

Main cause The fixing motor (M19) is faulty. The DC controller PCB is faulty.

Action

1. Connector

Is the connector of the fixing motor connected?

NO: Connect the connector.

2. Main power supply PCB

Is the drive voltage (24 V) of the fixing motor supplied by the main power supply PCB?

Main power supply PCB: between J202-3 (24VU1-S) and J202-4 (OVU1)

NO: Replace the main power supply PCB.

3. Fixing motor (M19), DC controller PCB

Press the Start key. Is the lock signal of the fixing motor present at the connector (J312) on the DC controller PCB?

Lock signal: J312-B4 (FSRM_LOCK*)

the DC controller PCB change from 0 to about 5 V?

YES: Replace the fixing motor.

NO: Replace the DC controller PCB.

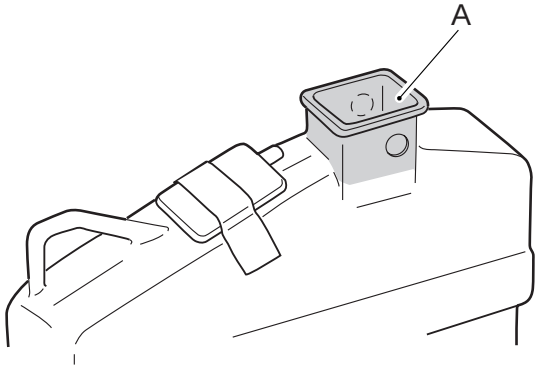
E019

0000	The waste toner case is full of waste toner.
Main cause	The waste toner case is full. The waste toner case full detection mechanism is soiled. The waste toner sensor is faulty. The DC controller PCB is faulty.
Caution	To clear the error, dispose of the waste toner, and turn off and then on the main power switch.
Action	If the error is still indicated after disposing of the waste toner, perform the following:

1. Waste toner case full detection mechanism

Remove the waste toner case, and turn off and then on the main power switch. Is 'E019' absent?

YES: The waste toner case full detection assembly is soiled with toner. Clean both inside and outside of area A of the waste toner case with alcohol. Make sure that no dirt remains inside and outside the area around the round recess.



2. Waste toner full sensor, DC Controller PCB

Try replacing the waste toner case full sensor. Is the problem corrected?

YES: End.

NO: Replace the DC controller PCB.

E032

0001 The DA unit connection is disconnected (after connection).

Main cause The DA unit is faulty. The main controller PCB is faulty.

Action

1. Connector

Is the DA unit connected securely?

NO: Connect it securely.

2. DA controller, Main controller PCB

Try replacing the DA unit. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E051

0000 At start-up, home position is not detected when the horizontal registration assembly is moved 100 mm in the direction of home position.

Main cause The horizontal home position sensor is faulty. The horizontal registration motor is faulty. The DC controller PCB is faulty.

Action

1. Connector

Are the connectors of the horizontal registration home position sensor and the horizontal registration motor connected?

a. DC controller PCB (J304) <-> relay connector <-> horizontal registration home position sensor

b. DC controller PCB (J304) <-> relay connector <-> horizontal registration motor

NO: Connect the connectors.

2. Sensor lever (damage and interference), Sensor

Is abnormal noise heard from the horizontal registration assembly in keeping with the motor rotation?

YES: a. The horizontal registration assembly is out of place because of damage to the sensor lever. Replace the sensor lever.

b. The horizontal registration assembly malfunctions because of the presence of foreign matter. Remove the foreign matter.

c. The sensor is faulty and cannot detect home position. Replace the sensor.

3. Horizontal registration motor, DC controller PCB

Is the horizontal registration motor control signal generated by the DC controller PCB?

J304-1/2: 24 V, J304-3/4/5/6: motor excitation signal

YES: The horizontal registration motor is faulty. Replace the motor.

NO: Replace the DC controller PCB.

E064

0000 The presence of a high-voltage error is communicated by the composite power supply PCB. (The output for primary charging, developing, or transfer has deviated from a specific level of voltage.)

Main cause The contact has poor connection. The wiring is faulty. The composite power supply PCB is faulty. The DC controller PCB is faulty.

Action

1. Contact

Is any of the contacts of the primary charging roller, developing assembly, or transfer charging roller soiled? Or, is there poor contact?

YES: Clean the contact, and set it once again.

2. Wiring

Is the wiring between the contacts for the following normal: DC controller PCB (J301), composite power supply PCB (J136), primary charging roller, developing assembly, transfer charging roller?

a. DC controller PCB (J301) <-> composite power supply PCB (J136)

b. composite power supply PCB (J130-7) <-> primary charging roller contact

c. composite power supply PCB (J130-1) <-> developing assembly contact

d. composite power supply PCB (FT133) <-> transfer roller contact

NO: Correct the connection.

3. Composite power supply PCB, DC controller PCB

Try replacing the composite power supply PCB. Is the problem corrected?

YES: Yes.

NO: Replace the DC controller PCB.

E100

0001	The BD signal is not detected 10 times or more within 10 msec in 5 msec after the generation of the laser drive signal.
0002	While the laser is ON, the BD signal cycle is outside a specific range 20 times or more continuously.
0003	While the laser is ON, the horizontal sync signal cycle is outside a specific range 20 times or more.
Main cause	The wiring is faulty (short circuit, open circuit). The BD PCB is faulty. The laser scanner unit is faulty. The DC controller PCB is faulty.

Action

1. BD PCB

Try replacing the BD PCB. Is the problem corrected?
YES: End.

2. Laser scanner unit, DC controller PCB

Try replacing the laser scanner unit. Is the problem corrected?
YES: End.
NO: Replace the DC controller PCB.

E110

0000 The motor ready signal does not arrive within 15 sec after the laser scanner motor drive signal is generated.

Main cause The wiring is faulty (short circuit, open circuit, disconnection). The laser scanner motor (M10) is faulty. The main power supply PCB is faulty. The DC controller PCB is faulty.

Action

1. Connector

Are the connector (J312) on the DC controller PCB and the relay connector connected securely?

NO: Connect the connectors securely.

2. Main power supply PCB

During printing, does the voltage between J204-1 (+) and J204-2 (-) on the main power supply PCB change from 0 to about 24 V?

NO: Replace the main power supply PCB.

3. Laser scanner unit, DC controller PCB

Try replacing the laser scanner unit. Is the problem corrected?

YES: End.

NO: Replace the DC controller PCB.

E202

The home position sensor does not go ON when the main power switch is turned on.

0001 The scanner home position sensor does not go OFF when the scanner is moved forward by 40 mm.

0002 The scanner home position sensor does not go ON when the scanner is moved reverse 450 mm.

Main cause The scanner home position sensor (PS400) is faulty. The scanner motor (M400) is faulty. The reader controller PCB is faulty.

Action

1. State

Does the scanner operate when the power is turned on?

NO: See 4.2.9 “The No. 1 mirror base does not operate.”

2. Scanner home position sensor (PS400), Reader controller PCB

Move the No. 1 mirror base by hand from home position. Does the output of the scanner home position sensor change? (J405-2 on the reader controller PCB is 5 V (in HP) or 0V (away from HP))

NO: Replace the sensor.

YES: Replace the rear controller PCB.

E204

0001 While an original is being read, the image leading edge signal does not arrive from the ADF.

Main cause The ADF controller PCB is faulty. The reader controller PCB is faulty.

Caution When this code occurs, no code is indicated, but the keys are locked. The code may be checked in service mode: COPIER>DISPLAY>ERR.

Action

1. Read sensor (S2)

Try replacing the read sensor of the ADF. Is the problem corrected?

YES: End.

2. ADF controller PCB, Reader controller PCB

Try replacing the ADF controller PCB. Is the problem corrected?

YES: End.

NO: Replace the reader controller PCB.

E220

0001 A fault is detected on the inverter PCB for the scanning lamp.

Main cause The inverter PCB is faulty. The reader controller PCB is faulty.

Action

1. Wiring

Is the wiring from the scanning lamp to the reader controller PCB normal?
NO: Connect the connector firmly, and correct or replace the wiring.

2. Inverter PCB, Reader controller PCB

Try replacing the lamp inverter PCB. Is the problem corrected?
YES: End.
NO: Replace the reader controller PCB.

E225

0000 A specific level cannot be attained for the signal during CCD gain correction at power-on.

0002 The edge gain correction level is different from the correction level for the preceding sheet by a specific level or more.

Main cause The scanning lamp is faulty. The CCD PCB is faulty. The rear controller PCB is faulty.

Action

1. Scanning lamp (LAMP1)

Is the lamp ON during the initial operation after the main power switch is turned on?
NO: Replace the scanning lamp.

2. CCD unit, Reader controller PCB

Try replacing the CCD unit. Is the problem corrected?
YES: End.
NO: Replace the reader controller PCB.

E240

0000 A fault occurs in communication between the CPU of the main controller PCB and the CPU of the DC controller PCB.

Main cause The main controller PCB is faulty. The DC controller PCB is faulty.

Action

1. Wiring

Is the wiring from the min controller PCB to the DC controller PCB normal?

NO: Correct the wiring.

2. DC controller PCB, Main controlled PCB

Try replacing the DC controller PCB. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E243

0000 A fault occurs in the communication between the CPU of the control panel PCB and the CPU of the main controller PCB.

Main cause The control panel CPU PCB is faulty. The main controller PCB is faulty.

Action

1. Wiring

Is the wiring from the main controller PCB to the DC controller PCB normal?

NO: Correct the wiring.

2. Control panel CPU PCB, Main controller PCB

Try replacing the control panel CPU PCB. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E248

0001	A difference is discovered between the ID in EEPROM read when the main power switch is turned on and the ID in ROM upon comparison.
0002	The data read does not match the data written to EEPROM.
0003	A difference is discovered between the ID of EEPROM and the ID of ROM upon comparison while writing data.
Main cause	The EEPROM (IC403) of the reader controller PCB is faulty. The reader controller PCB is faulty.

Action

1. Execute the following in service mode: COPIER>FUNCTION>CLEAR>CON. Is the proem corrected?
   - YES: End. After executing the service mode, be sure to enter the service mode data newly.

2. EE-PROM, Reader controller PCB
   Try replacing the EE-PROM. Is the problem corrected?
   - YES: End. After replacement, be sure to enter the service mode data newly.
   - NO: Replace the rear controller PCB. After replacement, be sure to enter the service mode date newly.

E261

0000	The intervals of zero-cross signals deviate from the tolerance range while the fixing heater is supplied with power.
Main cause	The wiring is faulty (short circuit, open circuit). The main power supply PCB is faulty. The DC controller PCB is faulty.

Making Corrections

1. Connectors
   Are the connector J205 on the main power supply PCB and the connector J308B on the DC controller PCB securely connected? (zero-cross signal: J205-7 <-> J308B-1)
   - NO: Connect the connectors securely.

2. Main power supply PCB, Main controller PCB
   Try replacing the main power supply PCB. Is the problem corrected?
   - YES: End.
   - NO: Replace the DC controller PCB.

E302

0001	During shading, the shading processing does not end on the reader controller PCB after 1 sec.
0002	During stream reading, the edge white addition processing does not end on the rear controller PCB after 10 sec.
Main cause	The CCD PCB is faulty. The wiring is faulty (short circuit, open circuit). The reader controller PCB is faulty.

Action

1. Connector

Are the connectors (J6001/J6002) on the CCD PCB and the connectors (J5002/J5003) on the reader controller PCB connected securely?

NO: Connect the connectors securely.

2. CCD unit

Try replacing the CCD unit. Is the problem corrected?

YES: End.

3. Reader controller PCB, Main controller PCB

Try replacing the reader controller PCB. Is the problem corrected?

YES: End.

NO: Check the wiring; if normal, replace the main controller PCB.

E315

Any of the following is true in the image processing by the main controller:
1. The image data has a fault.
2. The encoding/decoding operation for image data has a fault.
3. The image processing element of the main controller PCB has a fault.

Main cause

The image data is faulty. The main controller PCB is faulty. The HDD is faulty.

Action

If this error occurs during normal copying or printing, the job in question (image data) is cleared when the main power switch is turned off and then on again; i.e., the machine will be reset.
If this error occurs frequently, however, a fault on the main controller PCB is a possibility. Further, if this error occurs in a specific image within the MAIL BOX, damage in data may be assumed; be sure to delete the image from the MAIL BOX.

E601

0000	When an image is transferred between the main controller PCB and the HDD, the main controller PCB detects a fault in control information.
0001	When an image is transferred between the main controller PCB and the DC controller PCB, the DC controller PCB detects a fault in the control information.
Main cause	The wiring is faulty (short circuit, open circuit). The HDD is faulty. The DC controller PCB is faulty. The main controller PCB is faulty

Action

a. E601-0000

1. Wiring

Are the connection and the cable between the connector J1017 on the main controller PCB and the connector J1551 on the HDD normal?

YES: End.

NO: Correct the connection/cable.

2. HDD, Main controller PCB

Try replacing the HDD, and download the system software. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

b. E601-0001

1. Wiring

Are the connection and cable between the connector J122 on the DC controller PCB and the connector J1015 on the main controller PCB normal?

NO: Correct the connection/cable.

2. DC controller PCB, Main controller PCB

Try replacing the DC controller PCB. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E602

0001 A mounting fault of the HDD is detected when the HDD is started up from the BOOT ROM.

0002 A data read fault of the HDD is detected when the HDD is started up from the BOOT ROM.

Main cause The wiring is faulty (short circuit, open circuit). The HDD is faulty. The main controller PCB is faulty.

Action

1. Wiring

Are the connection and the cable between connector J1025 of the main controller PCB and the connector J2005 of the HDD normal?

NO: Correct the connector/cable.

2. System software

Try re-installing the system software. Is the problem corrected?

YES: End.

3. HDD, Main controller PCB

Try replacing the HDD, and download the system software. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E604

0000 A fault is detected in the image memory.

Main cause The wiring is faulty (short circuit, open circuit). The HDD is faulty. The main controller PCB is faulty.

E605

0001 A fault is detected in the battery for the image memory.

Main cause The wiring is faulty (short circuit, open circuit). The HDD is faulty. The main controller PCB is faulty.

E606

0001 A mounting fault of the HDD is detected when the HDD is started up from the BOOT ROM.

Main cause The HDD is faulty. The main controller PCB is faulty.

Making Corrections

1. Wiring

Are the connection and cable normal between the connector J1025 on the main controller PCB and the connector J2005 of the HDD?

NO: Correct the connection and the cable.

2. System software

Try re-installing the system software. Is the problem corrected?

YES: End.

3. HDD, Main controller PCB

Try replacing the HDD and downloading the system software. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E674

0000 A faulty occurs in the communication between the fax PCB and the main controller PCB.

Main cause The wiring is faulty (short circuit, open circuit). The fax PCB is faulty. The main controller PCB is faulty.

Making Corrections

1. Wiring

Are the connection and the cable between the connector J 1005 on the main controller PCB and the connector J31 on the FAX PCB normal?

NO: Correct the connection and the cable.

2. FAX PCB, Main controller PCB

Try replacing the FAX PCB. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E677

0001	A fault occurs it the combination between any of the printer boards (accessories) and the main controller PCB.
Main cause	Any of the printer boards (accessories) is faulty. The main controller PCB is faulty.

Action
1. Connector Is the printer board (accessory) connected correctly? NO: Correct the connection.
2. Printer board, Main controller PCB Try replacing the printer board. Is the problem corrected? YES: End. NO: Replace the main controller PCB.

E710

0001	When the main power is turned on, the communication IC (IPC) on the reader controller PCB cannot be initialized.
0002	When the main power is turned on, the communication IC (IPC) on the DC controller PCB cannot be initialized.
0003	When the main power is trend on, the communication IC (IPC) on the main controller PCB cannot be initialized.
Main cause	The DC controller PCB is faulty. The reader controller PCB is faulty. The machine controller PCB is faulty.

Action

Malfunction, PCBs

Turn off and then on the main power switch. Is the problem corrected?

YES: End.

NO: If E7100001, replace the reader controller PCB.
If E710-002, replace the DC controller PCB.
If E71-0003, replace the main controller PCB.

E711

0001	Data is written to the error register of the communication IC (IPC) on the reader controller PCB four times or more within 1.5 sec.
0002	Data is written to the error register of the communication IC (IPC) on the DC controller PCB four times or more within 2 sec.
0003	Data is written to the error register of the communication IC (IPC) on the main controller PCB four times or more within 2 sec.
Main cause	The connector has poor connection. The ADF controller PCB is faulty. The finisher controller PCB is faulty. The DA unit PCB is faulty. The card reader PCB is faulty.

Action

a. E711-0001

Connector, ADF controller PCB

Is the interface cable between the ADF controller PCB an the reader controller PCB normal?

NO: Correct the cable.

YES: Replace the ADF controller PCB.

b. E711-0002

connector, Finisher controller PCB

Is the interface cable between the finisher controller PCB and the DC controller PCB normal?

NO: Correct the cable.

YES: Replace the finisher controller PCB.

c. E711-0003

Connector, DA unit PCB

Is the interface cable between the DA unit PCB and the main controller PCB normal?

NO: Correct the cable.

YES: Replace the NE controller PCB.

E712

0001	The communication is not resumed 3 sec or more after data has been written to the error register of the communication IC (IPC) on the ADF controller PCB.
0002	The transmission bit is not enabled 10 sec or more in the sync register of the communication IC (IPC) on e reader controller PCB.
Main cause	The connect has poor connection. The main power supply PCB is faulty. The ADF controller PCB is faulty. The reader controller PCB is faulty.

Action

1. Connector

Is the interface able between the ADF controller PCB and the reader controller PCB normal?

NO: Correct the cable.

2. Main power supply PCB

While the ADF is in operation, does the voltage between J203-2 (+) and J203-1 (-) on the main power supply PCB change from 0 to about 24 V?

NO: Replace the main power supply PCB.

3. ADF controller PCB, Reader controller PCB

Try replacing the ADF controller PCB. Is the problem corrected?

YES: End.

NO: Replace the rear controller PCB.

E713

0000 The communication with the finisher is not resumed 3 sec or more after it is disrupted.

Main cause The connector has poor connection. The option power supply PCB is faulty. The finisher controller PCB is faulty. The DC controller PCB is faulty.

Action

1. Connector

Is the wiring between the finisher controller PCB and the options power supply PCB and between the options power supply PCB and the DC controller PCB normal?

NO: Correct the wiring.

2. Options power supply PCB

Is the voltage between HJ701-6 (+) and J701-7 (-) on the options power supply PCB about 24 V?

NO: Replace the options power supply PCB.

3. Finisher controller PCB, DC controller PCB

Try replacing the finisher controller PCB. Is the problem corrected?

YES: End.

NO: Replace the DC controller PCB.

E716

0000 The ID signal is not detected within a specific period of time after the presence of a pedestal is detected.

Main cause The connector has poor connection. The main power supply PCB is faulty. The pedestal controller PCB is faulty. The DC controller PCB is faulty.

Action

1. Connector

Is the wiring between the pedestal controller PCB and the main power supply PCB and between the main power supply PCB and the DC controller PCB normal?

NO: Correct the wiring.

2. Main power supply PCB

Is the voltage between J206-2 (+) and J206-1 (-) on the main power supply PCB about 24 V?

NO: Replace the main power supply PCB.

3. Pedestal controller PCB, DC controller PCB

Try replacing the pedestal controller PCB. Is the problem corrected?

YES: End.

NO: Replace the DC controller.

E717

0001 The communication with the DA unit is not resumed 3 sec or more after it is disrupted.

Main cause The wiring is faulty (short circuit, open circuit). The DA unit PCB is faulty. The main controller PCB is faulty.

Caution To clear the error, execute the following in service mode: COPIER>FUNCTION>CLEAR>ERR.

Action

1. Connector

Is the connection between the DA unit PCB and the main controller PCB secure?

NO: Correct the connection.

2. DA unit PCB, main controller PCB

Try replacing the DA unit PCB. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E719

0001 The communication between the Card Reader-C1 or the coin vendor and the main controller PCB is disrupted.

Main cause The wiring is faulty (short circuit, open circuit). The Card Reader-C1 is faulty. The coin vendor is faulty. The main controller PCB is faulty.

Caution To clear the error, execute the following in service mode: COPIER>FUNCTION>CLEAR>ERR.

Action

1. Connector

Is the Cad Reader-C1 or the coin vendor connected securely?
NO: Connect it securely.

2. Coin vendor, Main controller PCB

Try replacing the Card Reader-C1 or the coin vendor. Is the problem corrected?
YES: End.
NO: Replace the main controller PCB.

E732

0001 A fault is detected by the main controller PCB in the communication between reader controller PCB and the main controller PCB.

Main cause The connector has poor connection. The reader controller PCB is faulty.

Action

1. Connector, Reader controller PCB

Is the connection between the connector J1014 on the main controller PCB and the connector J409 on the reader controller PCB normal?
NO: Correct the connection.
YES: Replace the reader controller PCB.

E733

0001 A fault is detected by the main controller PCB in the communication between the DC controller PCB and the main controller PCB.

Main cause The connector has poor connection. The DC controller PCB is faulty.

Action

1. Connector, DC controller PCB

Is the connection between the connector J1015 on the main controller PCB and the conductor J316 on the DC controlled PCB normal?

NO: Correct the connection.

YES: Replace the DC controller PCB.

E737

0000 During self diagnosis at power-on, the DRAM check finds a fault in the main controller PCB.

Main cause The connection of the IC socket is faulty. The main controller PCB is faulty.

Action

1. Connection

Is the DRAM fitted to the socket securely?

NO: Fit the DRAM securely.

2. DRAM, Main controller PCB

Try replacing the DRAM. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E740

0001	At power-on, the LAN card has a fault.
0002	The MAC address has a fault.
0003	The LAN card cannot be read.
Main cause	The LAN card is faulty. The main controller PCB is faulty.
Action	

1. Connector

Is the connection between the LAN card and the main controller PCB normal?

NO: Correct the connection.

2. LAN card, Main controller PCB

Try replacing the LAN card. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E741

0000	The PCI bus has a fault.
Main cause	The PCI bus has poor connection. The main controller PCB is faulty.
Action	Each PCI slot may be disabled in service mode to prevent the error: BOARD>PCI1-OFF through PCI3-OFF.

1. Board

Is the connection between the relay board and the main controller PCB normal?

NO: Correct the connection.

2. Relay board, Main Controller PCB

Try replacing the relay board. Is the problem corrected?

YES: End.

NO: Replace the main controller PCB.

E743

0000 The reader controller PCB detects a fault in the communication between the main controller PCB and the reader controller PCB.

Main cause The connector has poor connection. The main controller PCB has a fault.

Action

1. Connector, Main controller PCB

Is the connection between the connector J1014 on the main controller PCB and the connector J409 on the reader controller PCB normal?

NO: Correct the connection.

YES: Replace the main controller PCB.

E744

0000 The BootROM on the main controller PCB and the system software are for different models or are of different types.

Main cause The BootROM is not mounted correctly, or a fault occurred during downloading or when downloading the system software.

Making Corrections

Downloading (system software)

Check the types of the BootROM and the system software, and download system software of the correct type.

E803

0000 The 24V output from the composite main power supply PCB is absent for 1 sec or more.

Main cause The wiring is faulty (short circuit, open circuit). The composite power supply PCB is faulty. The DC controller PCB is faulty.

Making Corrections

1. Connectors

Are the connectors J204 on the main power supply PCB and the connector J300 on the DC controller PCB connected securely?

NO: Connect the connectors securely.

2. Main power supply PCB

Is 24 V supplied by the main power supply PCB (J204) to the DC controller PCB (J300)?

(J204-5 <-> J300-5: OVU3, J204-6 <-> J300-6: OVU3,
J204-7 <-> J300-7: 24VU3, J204-8 <-> J300-8: 24VU3)

NO: Replace the main power supply PCB.

YES: Replace the DC controller PCB.

E805

The clock signal is absent for 5 sec or more after the fan drive signal has been generated. The detail codes of the fans in question are as follows:

0001	developing fan (FM1)
0002	fixing fan (FM2)
0003	curl reducing fan (FM4)
0004	curl reducing fan (FM5)
0005	electrical unit fan (FM3)

Main cause: The fan wiring is faulty (short circuit, open circuit). The fan is faulty. The DC controller PCB is faulty.

Action

1. Foreign matter

Is there foreign matter that prevents the rotation of the fan?

YES: Remove the foreign matter.

2. Wiring, Connector

Are the wiring and connector of the fan normal?

Developing fan (FM1):	DC controller PCB (J302B)
Fixing fan (FM2):	DC controller PCB (J308B)
Curl reducing fan (FM4):	DC controller PCB (J311B)
Curl reducing fan (FM5):	DC controller PCB (J311B)
Electrical unit fan (FM3):	main controller PCB (J1028)

NO: Correct the wiring and the connection.

3. Fan, DC controller PCB

Try replacing the fan. Is the problem corrected?

YES: End.

NO: Replace the DC controller PCB.

E901

0000 The motor ready signal does not arrive within 1.3 sec after the pedestal main motor drive signal is generated.

Main cause The connector has poor connector. The pedestal main motor is faulty. The main power supply PCB is faulty. The pedestal controller PCB is faulty. The DC controller PCB is faulty.

Action

1. Connector

Is the wiring between the pedestal controller PCB and the main power supply PCB and between the main power supply PCB and the DC controller PCB normal?

NO: Correct the wiring.

2. Main power supply PCB

Is the voltage between J206-2 (+) and J206-1 (-) on the main power supply PCB about 24 V?

NO: Replace the main power supply PCB.

3. Pedestal main motor

Try replacing the pedestal main motor. Is the problem corrected?

YES: End.

4. Pedestal controller PCB, DC controller PCB

Try replacing the pedestal controller PCB. Is the problem corrected?

YES: End.

NO: Replace the DC controller PCB.

1.2 ADF Error Codes

When the ADF's self diagnostic mechanism has gone ON, it may be reset by turning off and then on its host machine.

The host machine can still generate copies in book mode if the ADF cable is discontented even while the ADF is out of order.

E420

0001	When the power switch of the host machine is turned on, the back-up data from the EEPROM cannot be read or the data that has been read has a fault.
Main cause	The EEPROM is faulty. The ADF controller PCB is faulty.

E421

0001	The back-up data cannot be written to the EEPROM, or the data that has been written has a fault.
Main cause	The EEPROM has a fault. The ADF controller PCB has a fault.

E422

0001	While the ADF is in standby, the communication with its host machine is disrupted for 5 sec or more; or, while the ADF is in operation, the communication with its host machine is disrupted for 0.5 sec or more.
Main cause	The IPC communication is faulty. The communication line has an open circuit. The ADF controller PCB is faulty.

1.3 Saddle Finisher-G1 Error Codes

When the finisher's self diagnostic mechanism has gone ON, it may be reset by turning off and then on its host machine.

The host machine can still generate copies if the finisher cable is disconnected and the delivery path is set to the delivery tray of the host machine.

1.3.1 Error Code of the Finisher Unit

E501

0001	The communication between the finisher controller PCB and the puncher drive PCB is disrupted.
Main cause	The finisher controller PCB is faulty. The puncher drive PCB is faulty.

E505

0001	When the main power is turned on, the checksum of the finisher controller PCB has a fault.
0002	When the main power is turned on, the checksum of the puncher driverPCB has a fault.
Main cause	The EEPROM is faulty. The finisher controller PCB is faulty. The puncher driver PCB is faulty.

E510

0001	The feeding roller does not leave home position when the feed motor is driven for 2 sec.
0002	The feeding roller does not return to home position when the feed motor is driven for 2 sec.
Main cause	The feed motor (M1) is faulty. The setting roller home position sensor is faulty. The finisher controller PCB is faulty.

E514

0001	The delivery belt does not leave home position when the stack delivery motor is driven for 3 sec.
0002	The delivery belt does not return to home position when the stack delivery motor is driven for 3 sec.
Main cause	The stack delivery motor (M3) is faulty. The delivery belt home position motor (PI7) is faulty. The finisher controller PCB is faulty.

E530

0001	The aligning plate (rear) does not leave home position when the alignment motor (rear) is driven for 3 sec.
0002	The aligning plate (rear) does not return to home position when the alignment motor (rear) is driven for 3 sec.
Main cause	The alignment motor (rear; M5) is faulty. The aligning plate home position sensor (rear; PI5) is faulty. The finisher controller PCB is faulty.

E531

0001	The stapler does no leave home position when the stapler/folder motor is driven for 1.5 sec.
0002	The stapler does not return to home position when the stapler/folder motor is driven for 1.5 sec.
0003	The clock signal is disrupted for 1 sec or more while the stapler/folder motor is driven.
Main cause	The stapler home position sensor (PI19) is faulty. The stapler/folder motor (M7) is faulty. The stapler/folder clock sensor (PI4) is faulty. The finisher controller PCB is faulty.

E532

0001	The stapler unit does not leave home position when the stapler slide motor is driven for 4.5 sec.
0002	The stapler unit does not return to home position when the stapler slide motor is driven for 4.5 sec.
Main cause	The slide home position sensor PI180 is faulty. The stapler slide motor (M8) is faulty. The finisher controller PCB is faulty.

E537

0001	The aligning plate (front) does not leave home position when the alignment motor (front) is driven for 3 sec.
0002	The aligning plate (front) does not return to home potion when the alignment motor (front) is driven for 3 sec.
Main cause	The alignment motor (front; M4) is faulty. The aligning plate home position sensor (front; PI4) is faulty. The finisher controller PCB is faulty.

E540

0001	The paper surface sensor remains unchanged 10 sec after the tray ascent/descent motor is driven.
0002	The tray upper sensor goes ON while the tray is moving up.
0003	The clock for the clock sensor is disrupted for 10 sec or more while the tray ascent/descent motor is driven.
Main cause	The paper surface sensor (PI9) is faulty. The tray ascent/descent motor clock sensor (PI17) is faulty. The tray upper limit sensor (PI15) is faulty. The tray ascent/descent motor (M6) is faulty. The finisher controller PCB is faulty.

E577

0001	The paddle does not leave home position when the paddle motor is driven for 2 sec or more.
0002	The paddle does not return to home position when the paddle motor is driven for 2 sec or more.
0003	The stack ascent/descent guide does not leave home position when the paddle motor is driven for 2 sec or more.
0004	The stack ascent/descent guide does not return to home position when the paddle motor is driven for 2 sec or more.
Main cause	The paddle home position sensor (PI2) is faulty. The stack ascent/descent home point sensor Pixx0 is faulty. The paddle motor (M2) is faulty. The finisher controller PCB is faulty.

E590

0001	The puncher does not return to home position when the puncher motor is driven for 250 msec.
0002	The clock from the puncher motor clock sensor is disrupted for 60 msec or more when the puncher motor is driven.
Main cause	The puncher home position sensor (PI1P) is faulty. The puncher motor (M1P) is faulty. The puncher motor clock sensor (PI3P) is faulty. The puncher driver PCB is faulty.

E592

	In the course of sensor output automatic adjustment, the light-receiving voltage is 2.5 V or less even when the light-emitting voltage is set to 4.4 V. In the course of output automatic adjustment, the light-receiving voltage is 2.5 V or more even when the light-emitting voltage is set to 0 V. In the course of sensor output automatic adjustment, the light-emitting voltage is set to 4.4 V or more.
0001 to 0005	Horizontal registration sensor
0006	Puncher waste full sensor
Main cause	The horizontal registration sensor is faulty. The puncher waste sensor is faulty. The puncher driver PCB is faulty.

E593

0001	The puncher not leave home position when the puncher shift motor is driven for 1 sec.
0002	The puncher does not return to home position when the puncher shift motor is driven for 1 sec.
Main cause	The horizontal registration home position sensor (PI2P) is faulty. The puncher shift motor (M2P) is faulty. The puncher drive PCB is faulty.

E5F1

0001	The folding roller does not leave home position when the stapler/folder motor is driven for 1.5 sec.
0002	The folding roller does to return to home position when the stapler/folder motor is driven for 3.5 sec or more.
0003	The clock is disrupted for 1 sec or more while the stapler/folder motor is driven.
Main cause	The folding roller home position sensor (PI12) is faulty. The stapler/folder motor (M7) is faulty. The stapler/folder clock sensor (PI14) is faulty. The finisher controller PCB is faulty.

1.4 Finisher-J1 Error Codes

When the finisher's self diagnostic mechanism has gone ON, it may be reset by turning off and then on its host machine.

While the finisher is out of order, prints can still be made by disabling the finisher operation as follows (other than delivery):

1) Service mode
   [1] Turn off and then on the main power switch.
   [2] Set '1' to SORTER>OPTION>MD-SPRTN.
   [3] Turn off and then on the main power switch.
2) User mode
   [1] Turn off and then on the main power switch.
   [2] Set 'OFF' the following: 'adjustment/cleaning'>'staple/offset function'.
   [3] Turn off and then on the main power switch.

E500

0000	The communication between the copier and the finisher is disrupted and is not corrected for 5 sec or less.
Cause	The copier harness is faulty. (disconnected connector, open circuit) The finisher controller PCB or the copier's DC controller PCB is faulty.

E514

0000	At the start of the motor CW operation, the stack handling motor (M2) may be driven for a specific number of rotations; however, the stack delivery lever home position sensor (S8) does not go ON.
Cause	The stack handling motor (M2) is faulty. The stack delivery lever home position sensor (S8) is faulty, the connector is disconnected, or an open circuit exits. The stack handling motor (M2) relay harness is faulty. The return roller is faulty.

E530

0000	The alignment motor (M4) is driven for a specific number of rotations, but the aligning plate home position sensor (S7) does not go ON. The alignment motor (M4) is driven for a specific number of rotations, but the aligning plate home position sensor (S7) does not go OFF.
Cause	The rear alignment motor (M4) is faulty. The rear aligning plate home position sensor (S7) is faulty. The rear alignment motor relay harness is faulty. The rear aligning plate is subjected to an excess load.

E531

0000	The stapling home position sensor (S16) does not go off 0.5 sec after the stapler motor is rotated CW. The stapling home position sensor (S16) dos not go ON with 0.5 sec after the stapler motor is rotated CW and, thereafter, the sensor does not go ON within 0.5 sec after the motor is rotated in reverse.
Cause	The stapler motor (M6) is faulty. The stapling home position sensor (S16) is faulty. The stapler harness is faulty. The finisher controller PCB is faulty.

E537

0000	The aligning plate home position sensor (S6) does not go ON when the front alignment motor (M3) is driven for a specific number of rotations. The aligning plate home position sensor (S6) does not go OFF when the front alignment motor (M3) is driven for a specific number of rotations.
Cause	The front alignment motor (M3) is faulty. The front aligning plate home position sensor (S6) is faulty. The front alignment motor relay harness is faulty. The front aligning plate is subjected to an excess load.

E577

0000	The return roller does not reach home position when the delivery motor (Ml) has been driven as much as will move it to the return roller home position sensor (S3).
Cause	The delivery motor (M1) or the finisher controller PCB is faulty. The return roller home position sensor (S3) is faulty, the harness connector is disconnected, or an open circuit exits. The delivery motor relay harness is faulty. The return roller is faulty.

E580

0000	The delivery tray upper limit sensor (S13) goes ON while the delivery tray ascent/descent motor (M5) is in operation. The clock signal of the delivery tray ascent/descent motor clock sensor (S9) is not detected 15 times or more within 0.8 sec while the delivery tray ascent/descent motor (M5) is in operation. The delivery tray paper height sensor (S10) does not go ON 4 sec after the delivery tray ascent/descent motor (M5) starts to move up. The delivery tray paper height sensor (S10) does not go OFF 4 sec after the delivery tray ascent/descent motor (M5) starts to move down.
Cause	The delivery tray ascent/descent motor (M5) is faulty. The delivery tray paper height sensor (S10) is faulty, the harness is disconnected, or an open circuit exits. The delivery tray ascent/descent motor lock sensor (S9) is faulty, the connector is disconnected, or an open circuit exits. The delivery tray ascent/descent motor is subjected to an excess load. The finisher controller PCB is faulty.

E585

0000	At the start of the motor CCW operation, the stack handling motor (M2) may be driven for a specific number of rotations; however, the stack delivery lever home position sensor (S8) does not go ON.
Cause	The stack handling motor (M2) is faulty. The stack delivery lever home position sensor (S8) is faulty, the connector is disconnected, or an open circuit exits. The stack handling motor (M2) relay harness is faulty. The return roller is faulty.