SC100: Scanning System

SCI	No.	Symptom	Possible Cause
101	D	Exposure Lamp Error	
		At trigger on, the lamp was not	Exposure lamp defective
		detected on.	Lamp regulator defective
			Lamp regulator harness damaged,
			disconnected
			Dirty standard white plate
			Scanner mirror dirty or out of position
			Lens dirty, out of position
100			SBU board defective
120	D	Scanner home position error 1	
		The scanner HP sensor does not	BCU, SDRB (Scanner Driver Board)
	i	detect the on condition during	defective
		initialization or copying.	Scanner motor defective
			Harness between BCU, SDRB, scanner
			motor disconnected. • Scanner HP sensor defective.
			Harness between scanner HP sensor and BCU disconnected.
1	Ì		 Scanner wire, timing belt, pulley, carriage
	1	E	installed incorrectly.
121	D	Scanner home position error 2	motaned mosmostly.
		The scanner HP sensor does not	BCU, SDRB (Scanner Driver Board)
	1	detect the off condition during	defective
		initialization or copying.	Scanner motor defective
			Harness between BCU, SDRB, scanner
			motor disconnected
			 Scanner HP sensor defective
			 Harness between scanner HP sensor
			and BCU disconnected
	ŀ	•	 Scanner wire, timing belt, pulley, carriage
100			installed incorrectly.
122	D	Scanner home position error 3	
		The scanner home position sensor	BCU, SDRB (Scanner Driver Board)
		does not detect the on condition	defective
		during original scanning.	Scanner motor defective Herman between BCIL SDBB
			Harness between BCU, SDRB, scanner motor disconnected
			Scanner HP sensor defective
		•	Harness between scanner HP sensor
			and BCU disconnected
			 Scanner wire, timing belt, pulley, carriage
			installed incorrectly

123	D	Scanner home position error 4	
		The scanner home position sensor does not detect the off condition during original scanning.	BCU, SDRB (Scanner Driver Board) defective Scanner motor defective Harness between BCU, SDRB, scanner motor disconnected Scanner HP sensor defective Harness between scanner HP sensor and BCU disconnected Scanner wire, timing belt, pulley, carriage installed incorrectly.
143	С	SBU auto adjust error	
		Automatic adjustment of the SBU fails when the machine is switched on.	 Exposure lamp defective Exposure lamp regulator defective Harness between exposure lamp and lamp regulator is disconnected White plate installed incorrectly or is dirty Scanning mirrors of the exposure unit are dirty or out of position SBU board defective VIB board defective. Harness between SBU, VIB disconnected Harness between VIB, BCU disconnected
144	D	SBU transmission error	
		 After the SBU switches on, the BCU detects one of the following conditions on the SBU: 1 s after power on, the SYDI signal does not go high, even after 1 retry. 1 s after power on, the SYDI signal goes high, but the SBU ID could not be read after 3 attempts. 	 SBU defective VIB defective Harness (40-pin shielded) between the SBU, VIB is disconnected Harness (shielded cable) between the VIB, BCU is disconnected
165		Copy data security unit error B828	B246
		The copy data security option is installed by not operating correctly.	 Copy data security card corrupted The board is not installed or the board is defective IPU board defective

181	D	CIS lamp abnormal	
		After the CIS lamp trigger goes on, the CIS lamp is not detected on. Detecting the lamp on or off determines the peak white level value for shading correction. (If the peak level is determined to be below a certain level, the CIS lamp is judged to be off.)	 CIS lamp defective CIS power supply board defective CIS lamp regulator defective Harness between lamp and lamp regulator is disconnected. Harness between CIS, ADF is disconnected CIS exposure glass dirty. White roller dirty or installed incorrectly CIS unit defective
183	С	CIS auto adjust error	
		Automatic adjustment of the CIS unit failed.	CIS unit defective CIS exposure glass dirty White roller dirty or installed incorrectly
184	D	CIS transmission error	
		 When the CIS is powered on, the ADF detects one of the following abnormal conditions on the CIS unit: The SOUT signal does not go high within 1 s after power on. The SOUT signal goes high within 1 s after power on, but the SBU ID cannot be read after 3 attempts. 	CIS unit defective Harness between the CIS, ADF is disconnected

Troubleshooting

SC200: Exposure

202	Polygon mirror motor error 1: Timeou	t at ON B246
	The polygon mirror motor unit did not enter "Ready" status within 20 sec. after the motor was turned on, or within 20 sec. after the speed of rotation was changed.	The polygon mirror motor PCB connector is loose, broken, or defective Polygon mirror motor PCB defective Polygon mirror motor defective IPU defective
203	Polygon mirror motor error 2: Timeou	t at OFF B246
	The polygon mirror motor did not leave "Ready" within 3 sec. after the motor was switched off. (The XSCRDY signal did not go HIGH (inactive) within 3 sec.)	 The polygon mirror motor PCB connector is loose, broken, or defective Polygon mirror motor PCB defective Polygon mirror motor defective IPU defective
204	Polygon mirror motor error 3: XSCRD	OY signal error B246
	The polygon mirror motor "Ready" signal went inactive (HIGH) while the motor was operating at normal speed, even though the motor was neither switched off nor was there a request for a change in speed.	 Electrical oise interference on the line with the motor signals Polygon mirror motor PCB connector loose, broken, defective Polygon mirror motor PCB defective Polygon mirror motor defective
205	Polygon mirror motor error 4: Unstab	le timeout B246
	The "Ready" signal (XSCRDY) was detected as unstable for more than 20 sec. while the polygon mirror motor was operating at normal speed.	 Electrical noise on the line with the motor signals Polygon mirror motor PCB connector loose, broken, defective Polygon mirror motor PCB defective IPU defective
220	Laser synchronization detection error	
	The 1st laser synchronization detection unit could not detect the line synchronization signal (DETP0) within 500 ms while the polygon mirror motowas operating at normal speed. Note: The unit polls for the signal events of the signal events. This SC is issued after the 10 attempt fails to detect the signal.	connector loose, broken, defective Laser synchronization detection board is not installed correctly (out of alignment) Laser synchronization board

SC300: Image Development System (1)

SCI	Vo.	Symptom	Possible Cause
300	D	Charge corona output error The feedback voltage from the charge corona unit is detected too high 9 times.	Charge corona power pack defective Charge corona harness disconnected
303	С	Charge corona grid leak When the high voltage is output to the corona grid, feedback voltage exceeds the prescribed value 9 times.	Poor charge corona unit connection Charge corona power pack defective Charge corona harness disconnected Poor charge corona unit connection
304	D	Charge grid circuit open When high voltage goes to the corona grid, feedback voltage is more than the set value 9 times. This feedback voltage is used to update PWM for output control.	Charge corona unit defective or disconnected Charge corona harness defective Charge corona power pack is defective.
305	D	Charge corona wire cleaner error 1 The charge cleaner pad does not arrive at the home position: Motor locked within 4 s after switching on, or does not lock within 30 s. Motor locked within 10 s after reversing, or does not lock within 30 s.	Charge corona wire cleaner motor defective Motor driver defective
306	С	Charge corona wire cleaner error 2 Charge coronal motor is disconnected. (The current at the charge corona motor is detected less than 83 mA.)	Charge corona wire cleaner motor connector is defective, connected.

NOTE: When SC310~SC317 are logged, the machine halts without displaying the SC number. These SC codes log an abnormal condition at the potential sensor only when SP3901 (Auto Process Control) is set to on.

SC I	lo.	Symptom	Possible Cause	
310	D	Potential sensor calibration error 1		
		During drum potential sensor calibration, the drum potential sensor output voltage does not meet specification when test voltages (– 100V, –800V) are applied to the drum.	 Potential sensor defective Potential sensor harness disconnected Potential sensor connector defective or disconnected IOB defective OPC connector defective Development power pack defective 	

311	С	Potential sensor calibration error 2	
		During drum potential sensor calibration, the drum potential sensor output voltage does not meet specification when test voltages (— 100V, –800V) are applied to the drum.	Potential sensor defective Potential sensor harness disconnected Potential sensor connector defective or disconnected IOB defective OPC connector defective Development power pack defective
312	С	Potential sensor calibration error 3	
		During drum potential sensor calibration when adjusting the drum potential (VD), the drum potential sensor detects VD higher than VG (grid voltage)or- When adjusting VD (drum surface potential of black areas after exposure), even after 5 adjustments of VG (charge corona grid potential), VD could not be set in the target range (– 800±10 + VL + 130V)	 Potential sensor defective Potential sensor harness disconnected Potential sensor connector defective or disconnected IOB defective OPC connector defective Development power pack defective Charge corona unit worn out, dirty
314	С	Potential sensor calibration error 4 During drum potential sensor calibration when adjusting the drum potential (VH) for LD power adjustment, the first time the VH pattern is made, the drum potential sensor detects that VH is more than 500V: VH > -500 + VL + 130 V	Potential sensor defective Potential sensor harness disconnected Potential sensor connector defective or disconnected IOB defective OPC connector defective LD defective
315	С	Potential sensor calibration error 5 During drum potential sensor calibration, when –100V is applied to the drum, the output value is out of the prescribed range.	Potential sensor defective Potential sensor harness disconnected Potential sensor connector defective or disconnected IOB defective OPC connector defective Development power pack defective
316	С	Potential sensor calibration error 6 During drum potential sensor calibration, when –800V is applied to the drum, the output value is out of the prescribed range.	Potential sensor defective Potential sensor harness disconnected Potential sensor connector defective or disconnected IOB defective OPC connector defective Development power pack defective

317	С	Potential sensor calibration error 7	
		During drum potential sensor calibration, when VL is adjusted, the pattern surface potential VL pattern is not within range 0V ~ -400V. (VL is the potential after exposing a white pattern.)	 Potential sensor defective Potential sensor harness disconnected Potential sensor connector defective or disconnected IOB defective OPC connector defective Charge corona power pack defective Development power pack defective
321	D	F-GATE error	B140 Only
		The laser writing signal (F-GATE) for the IPU does not go LOW within 60 s.	 BICU board defective PCI bus between controller board, BICU board defective
322	D	Laser synchronization detector error	B140 Only
		After the polygon motor reaches standard rotation speed and the LD unit fires for 500 ms, the laser synchronization detector does not generate a signal.	 Harness between detector and I/F disconnected or damaged Detector is installed incorrectly Detector board is defective IPU board defective
335	D	Polygon mirror motor error 1	B140 Only
		The ready signal does not go low within 20 s after the polygon mirror motor turns on or changes speed.	 Harness between I/F and polygon motor disconnected or defective Polygon motor or polygon motor driver defective IPU board defective
336	D	Polygon mirror motor error 2	B140 Only
		The ready signal does not go high within 20 s after the polygonal mirror motor turns off.	 Harness between I/F and polygon motor disconnected or defective Polygon motor or polygon motor driver defective IPU board defective
337	D	Polygonal mirror motor error 3	B140 Only
		The XSCRDY signal goes high while the polygon mirror motor turns on, even though there was no request to either turn off the motor or change the motor speed.	 Noise on the line where the polygon ready signal (XSCRDY) is transmitted. Harness between the polygon motor and I/F disconnected or defective. Polygon motor or polygon motor driver defective
338	D	Polygonal mirror motor error 4	B140 Only
		While the polygon motor is rotating, the XSCRDY signal goes high during exposure.	 Noise on the linef where the polygon ready signal (XSCRDY) is transmitted. Harness between the polygon motor and I/F disconnected or defective. Polygon motor or polygon motor driver defective IPU board defective

340	С	TD sensor output error	
		TD sensor output voltage (Vt), measured during each copy cycle, is detected 10 times at one of the following levels: Vt = 0.5 volts or lower Vt = 4.0 volts or higher	 TD sensor defective TD sensor harness disconnected TD sensor connector disconnected or defective IOB defective Toner bottle motor defective Note: When the TD sensor is defective, the toner supply is controlled using pixel count and the ID sensor.
341	D	TD sensor adjustment error 1 During the TD sensor auto adjustment, the TD sensor output voltage (Vt) is 2.5 volts or higher even though the control voltage is set to the minimum value (PWM = 0). When this error occurs, SP2-906-1 reads 0.00V. Note: This SC is released only after correct adjustment of the TD sensor has been achieved. Switching the machine off and on will cancel the SC	TD sensor defective TD sensor harness disconnected TD sensor connector disconnected or defective IOB defective Toner bottle motor defective Note: When the TD sensor is defective, the toner supply is controlled using pixel count and the ID sensor.
342	D	display, but does not release ID sensor toner supply. TD sensor adjustment error 2	
J42	ט	During the TD sensor auto adjustment, the TD sensor output voltage (Vt) does not enter the target range (3.0 ± 0.1V) within 20 s. When this error occurs, the display of SP2-906-1 reads 0.00V. Note: This SC is released only after correct adjustment of the TD sensor has been achieved. Switching the machine off and on will cancel the SC display, but does not release ID sensor toner supply.	TD sensor defective TD sensor harness disconnected TD sensor connector disconnected or defective IOB defective
345	D	Development output abnormal The high voltage applied to the development unit is detected 10 times higher than the upper limit (45%) of PWM.	Development power pack defective Development bias leak due to poor connection, defective connector
350	С	ID sensor error 1 One of the following ID sensor output voltages was detected twice consecutively when checking the ID sensor pattern. Vsp ≥ 2.5V Vsg < 2.5 Vsp = 0V Vsg = 0	ID sensor defective ID sensor harness disconnected ID sensor connector defective IOB defective ID sensor pattern not written correctly Incorrect image density Charge power pack defective ID sensor dirty

351	С	ID sensor error 2	
		The ID sensor output voltage is 5.0V and the PWM signal input to the ID sensor is 0 when checking the ID sensor pattern.	ID sensor defective ID sensor harness disconnected ID sensor connector defective IOB defective ID sensor pattern not written correctly Incorrect image density Charge power pack defective ID sensor dirty
352	С	ID sensor error 3	
		For 2 s during the ID sensor pattern check, the ID sensor pattern edge voltage is not 2.5V or the pattern edge is not detected within 800 ms.	 ID sensor defective ID sensor harness disconnected ID sensor connector defective IOB defective ID sensor pattern not written correctly Incorrect image density Charge power pack defective ID sensor dirty
353	С	 ID sensor error 4 One of the following ID sensor output voltages is detected at ID sensor initialization. Vsg < 4.0V when the maximum PWM input (255) is applied to the ID sensor. Vsg ≥ 4.0V when the minimum PWM input (0) is applied to the ID sensor. 	ID sensor defective ID sensor harness disconnected ID sensor connector defective IOB defective ID sensor pattern not written correctly Incorrect image density Charge power pack defective ID sensor dirty
354	С	ID sensor error 5 Vsg falls out of the adjustment target (4.0 ± 0.2V) during Vsg checking.	ID sensor defective ID sensor harness disconnected ID sensor connector defective IOB defective ID sensor pattern not written correctly Incorrect image density Charge power pack defective ID sensor dirty
355	С	ID sensor error 6 The Vp value, which measures the reflectivity of the ID sensor pattern, was not in the range of –70V to –400V.	Potential sensor defective Potential sensor harness defective Potential sensor disconnected IOB defective OPC unit connector defective Charge corona power pack defective Charge corona wire dirty, broken

Troubleshooting

SC400: Image Development System (2)

SCI	No.	Symptom	Possible Cause
401	D	Transfer output abnormal	
		When the transfer is output, the feedback voltage remains higher than 4V for 60 ms.	Transfer power pack defective Transfer current terminal, transfer power pack disconnected, damaged connector
402	D	Transfer output abnormal release de	
		When the transfer is output, there is hardly any feedback voltage within 60 ms even with application of 24% PWM.	Transfer power pack defective Transfer unit harness disconnected Transfer connector loose, defective
430	С	Quenching lamp error	
		At the completion of auto process control initialization, the potential of the drum surface detected by the potential sensor is more than —400V, the prescribed value.	 Quenching lamp defective Quenching lamp harness disconnected Quenching lamp connector loose, defective
440	D	Main motor lock	
		The main motor lock signal remains low for 2 seconds while the main motor is on.	Drive mechanism overloaded Motor driver board defective
441	D	Development motor lock	
		The development motor lock signal remains high for 2 seconds while the development motor is on.	 Drive mechanism overloaded due to toner clumping in the wasted toner path Motor driver board defective
		If this SC is returned on a machine in the gear is not damaged replace the probably deformed, so replace the er	the field, inspect the toner supply unit coil. If coil. If the gear is damaged, the gear shaft is ntire unit.
490	D	Main fan error	
		The main fan motor lock signal goes high for 5 s while the fan is on.	Fan motor overloaded due to obstruction Fan connector disconnected
495	D	Toner recycling unit error	
		Encoder pulse does not change for 3 s after the main motor switches on.	 Waste toner transport has stopped due to motor overload Toner end sensor detective, disconnected
496	D	Toner collection bottle error	
		The toner collection bottle set switch remains off when the front door is closed.	No toner collection bottle set Poor connection of the switch connector
497	D	Toner collection motor error	
		The toner collection motor connector set signal remains off for 1 s.	Toner pump motor defective Motor connector loose, disconnected

SC500: Feed, Transport, Duplexing, and Fusing Systems

SCI	No.	Symptom	Possible Cause
501	В	Tray 1 lift malfunction	
	¥.	 The lift sensor is not activated within 10 seconds after the tray lift motor starts lifting the bottom plate. When the tray lowers, the tray lift sensor does not go off within 1.5 sec. Tray overload detected when the tray is set. The lower limit sensor of the LCT does not detect the lower limit within 10 sec. 	 Tray lift motor defective, disconnected Paper or other obstacle trapped between tray and motor Pick-up solenoid disconnected, blocked by an obstacle Too much paper loaded in tray Note (B246) At first, the machine displays a message asking the operator to reset the tray. This SC will not display until the operator has pulled the tray out and pushed it in 3 times. If the operator cycles the machine off/on before the 3rd opening and closing of the tray, the 3-count is reset.
502	В.	 Tray 2 lift malfunction The lift sensor is not activated within 10 seconds after the tray lift motor starts lifting the bottom plate. When the tray lowers, the tray lift sensor does not go off within 1.5 sec. Tray overload detected when the tray is set. Tray 3 lift malfunction	 Tray lift motor defective or disconnected Paper or other obstacle trapped between tray and motor Pick-up solenoid disconnected or blocked by an obstacle Too much paper loaded in tray Note (B246) At first, the machine displays a message asking the operator to reset the tray. This SC will not display until the operator has pulled the tray out and pushed it in 3 times. If the operator cycles the machine off/on before the 3rd opening and closing of the tray, the 3-count is reset.
JU3	D	 The lift sensor is not activated within 10 seconds after the tray lift motor starts lifting the bottom plate. When the tray lowers, the tray lift sensor does not go off within 1.5 sec. Tray overload detected when the tray is set. 	 Tray lift motor defective or disconnected Paper or other obstacle trapped between tray and motor Pick-up solenoid disconnected or blocked by an obstacle Too much paper loaded in tray Note (B246) At first, the machine displays a message asking the operator to reset the tray. This SC will not display until the operator has pulled the tray out and pushed it in 3 times. If the operator cycles the machine off/on before the 3rd opening and closing of the tray, the 3-count is reset.

504	В	Tray 4 lift malfunction	1
304	ם	 The lift sensor is not activated within 10 seconds after the tray lift motor starts lifting the bottom plate. When the tray lowers, the tray lift sensor does not go off within 1.5 sec. Tray overload detected when the tray is set. 	 Tray lift motor defective or disconnected Paper or other obstacle trapped between tray and motor Pick-up solenoid disconnected or blocked by an obstacle Too much paper loaded in tray Note (B246) At first, the machine displays a message asking the operator to reset the tray. This SC will not display until the operator has pulled the tray out and pushed it in 3 times. If the operator cycles the machine off/on before the 3rd opening and closing of the tray, the 3-count is reset.
507	В	LCT feed motor malfunction One of the following conditions is detected: The LD signal from the feed motor is detected abnormal for 50 ms after the motor switches on. At power on, the motor is detected loose or disconnected.	Feed motor defective Feed motor connector disconnected Obstacle interfering with mechanical movement of motor.
510	В	 LCT tray malfunction One of the following conditions is detected: When the bottom plate is lifted, the upper limit sensor does not come on for 18 s. When the bottom plate is lowered, the lower limit sensor does not come on for 18 s. After lift begins, the upper limit sensor does not switch on before the pick-up solenoid switches on. The paper end sensor switches on during lift and the upper limit sensor does not switch on for 2.5 s, and a message prompts user to reset paper. 	Tray lift motor defective or connector disconnected Lift sensor defective or disconnected Pick-up solenoid defective or disconnected Paper end sensor defective

515	В	Tandem rear fence motor error	
		One of the conditions is detected:	Rear fence motor defective or poor
		The return sensor does not	connection
		switch on within 10 sec. after the	Paper or other obstacle interfering with
		rear fence motor switches on.	operation of the sensors
		The HP sensor does not switch	Paper or other obstacle trapped between
		on 10 sec. after the rear fence	tray and motor
		motor switches on.	Motor mechanical overload due to obstruction
		The HP sensor and return sensor switch on at the same time.	Return sensor or HP sensor defective or
		Switch on at the same time.	dirty
			Note (B246)
			This problem will not issue the SC code
			on the operation panel.
			The machine will prompt the operator to
			reset tray by opening and closing it.
			If the problem persists, the machine will
			display again and the tray cannot be
520	С	Duplex jogger motor error 1	used.
520		When the jogger fence moves to	Paper or other obstacle has jammed
		the home position, the jogger HP	mechanism
		sensor does not turn on even if the	Sensor connector disconnected or
		jogger fence motor has moved the	defective
		jogger fence 153.5 mm.	Sensor defective
521	С	Duplex jogger motor error 2	
		When the jogger fence moves from	Paper or other obstacle has jammed
		the home position, the jogger fence HP sensor does not turn off even if	mechanism
		the jogger motor has moved the	Sensor connector disconnected or defective
		jogger fence 153.5 mm.	Sensor defective
531	D	Fusing exit motor error	
		The PLL lock signal was low for 2	Motor lock caused by physical overload
		seconds during motor operation.	Motor drive PCB defective
541	Α	Fusing thermistor open	-
		The fusing temperature detected by	Thermistor open
		the center thermistor was below	Thermistor connector defective
		0°C for 7 sec.	Thermistor damaged, or out of position
			Fusing temperature –15% less than the
F45		Fusion to an analysis	standard input voltage
542	Α	Fusing temperature warm-up error	- Eusing John discouncied
		One of the following occurred: • After power on, or after closing	Fusing lamp disconnected Thermistor warped, out of position
		the front door, the hot roller does	Thermistor warped, out or position Thermostat not operating
		not reach the 100°C control	- Morniostat not operating
		temperature within 25 s.	
		5 sec. after temperature rise	
		started, temperature remained	
		below 21°C after 5 samplings.	
		Fusing unit did not attain reload	
		temperature within 48 sec. of the	·
		start of fusing temperature control.	
L		L COLITIOI.	

543	Α	Fusing lamp overheat error 1 (softwa	re)
5-75	, ,	Central thermistor detected a	PSU defective
	;	temperature of 240°C at the center	IOB defective
		of the hot roller. Fusing temperature	BICU defective
		control software error	2.00 00.000.00
544	Α	Fusing lamp overheat error 1 (hardwa	are)
		The central thermistor or an end	PSU defective
		thermistor detected a temperature	IOB defective
	. :	of 250°C on the hot roller.	BICU defective
545	Α	Fusing lamp overheat error 2	
		After hot roller reaches warmup	Thermistor damaged, or out of position
		temperature, the fusing lamps	Fusing lamp disconnected
		remained on at full capacity for 11	
		samplings (1.8 sec. duration) while the hot roller was not rotating.	
547	D	Zero cross signal malfunction	
J4'	U	One of the following conditions is	Noise on the ac power line
		detected 10 times:	- Holse off the ac power line
		When the main switch is on, the	
		frequency measured by the	
		number of zero cross signals for	
		500 ms is larger than 66Hz or	
		smaller than 45 Hz.	
		The interval between one zero	
	*	cross signal and the next is 7.5	
		ms or shorter 3 times	
550	Α	consecutively for 500 ms. Fusing Web End	<u> </u>
	•	Web end detected 5 times within	Web end (requires replacement)
		500 ms and web motor continues to	Web end sensor defective
		rotate 40 s. If web end is detected	Note: After replacing the web with a new
		for another 500 ms, then the SC is	one, reset SP1902 001 to "0" to release
		logged.	SC550.
551	A	Fusing thermistor error 1	
		The end thermistor (contact type)	Thermistor disconnected
		was less than 0C (32F) for more	Thermistor connector defective
EEO	٨	than 7 seconds.	
552	A	Fusing thermistor error 2	Fusion I amondia and a state
		The end thermistor (contact type) could not detect:	Fusing lamp disconnected Thermister bent demand.
		100°C 25 seconds after the start	Thermistor bent, damagedThermistor position incorrect
		of the warmup cycle.	- Thermistor position incorrect
		A change in temperature more	
		than than 16 degrees for 5	
		seconds.	
		The reload temperature with 56	
		seconds after the start of the	
		fusing temperature control cycle.	

(r			
553	Α	Fusing thermistor error 3	
		The end thermistor (contact type)	PSU defective
	,	was at 240°C (464°F) for more than	IOB control board defective
		1 second. The temperature is read	BICU control board defective
		10 times every sec. (at 0.1 sec.	
		intervals).	
555	Α	Fusing lamp error	<u> </u>
		After the start of the warmup cycle,	Thermistor bent, out of position
		a fusing lamp was at full power for 1.8 seconds but the hot roller did	Fusing lamp disconnected
		not turn.	Circuit breaker opened
557		Zero cross signal error	B246
		High frequency noise was detected	No action required. The SC code is
		on the power line.	logged and the operation of the machine
			is not affected.
559	Α	Fusing jam: 3 counts	B246
٠.,		At the fusing exit sensor the paper	This SC only occurs if SP1159 is on, and
		was detected late for three pulse	a jam occurred in the fusing unit for three
		counts (lag error), and SP1159 was	consecutive sheets of paper.
		on.	Remove the paper that is jammed in the
			fusing unit. Then make sure that the
			fusing unit is clean and has no obstacles
569	D	Fusing pressure release motor error	in the paper feed path.
309	D	During copying, the HP sensor	Motor lock because of too much load
		could not detect the actuator, tried	Motor driver defective
		again 3 times and could not detect.	HP sensor defective, disconnected,
			connector defective, harness damaged
590	D	Toner collection motor error	to the control of the
	_	The toner collection motor sensor	Motor lock due to obstruction
		output does not change for 3	Motor driver board defective
		seconds while the toner collection	Motor connection loose, defective
		motor is on.	Toner collection motor sensor
			disconnected, sensor defective
			 Rotational transmission shaft (φ6 x 30)
			missing
599	D	1-bin Exit Motor Error (Japan Only)	
		The transport lock sensor output	Motor overload
		does not change within 300 ms	Motor driver defective
		after the motor switches on.	

Troubleshootina

SC600: Data Communication

SCI	Vo.	Symptom	Possible Cause
610	D	BICU ⇔ ADF communication/timeou	t abnormal
		After 1 data frame is sent to the ADF, an ACK signal is not received within 100 ms, and is not received after 3 retries.	Serial line connection unstable External noise on the line
611	D	BICU ⇔ ADF communication/break	reception abnormal
		During communication a break (Low) signal was received from the ADF.	Serial line connection unstable Harness disconnected or defective
612	D	BICU ⇔ ADF communication/comma	and abnormal
		A command that cannot be executed was sent from the main machine to the ADF.	A software error, result of an abnormal procedure.
620	D	BICU ⇔ ADF communication/timeou	t error
		After 1 data frame is sent to the finisher MBX, an ACK signal is not received within 100 ms, and is not received after 3 retries.	Serial line connection unstable External noise on the line
621	D	BICU ⇔ Finisher communication/bre	ak error
		During communication with the finisher MBX, the BICU received a break (Low) signal from the finisher.	Serial line connection unstable External noise on the line
623	D	BICU ⇔ Tray 1~4 communication/timeout error	
		After 1 data frame is sent to the trays, an ACK signal is not received within 100 ms, and is not received after 3 retries.	Serial line connection unstable External noise on the line
624	D	BICU ⇔ Tray 1~4 communication/bre	eak reception error
		During communication with the finisher trays, the BICU received a break (Low) signal.	Serial line connection unstable External noise on the line
626	D	BICU ⇔ LCT communication/timeout	error
		After 1 data frame is sent to the LCT, an ACK signal is not received within 100 ms, and is not received after 3 retries.	Serial line connection unstable External noise on the line
627	D	BICU 🖨 LCT communication/break re	
		During communication with the LCT, the BICU received a break (Low) signal.	Serial line connection unstable External noise on the line

SC650	C650 NRS Modem Communication Error	
	One of the following factors could be the cause of this error:	Check the following for a machine that is using Cumin (NRS modem):
	 In the User Tools, check the settings for the dial-up user name and dial up password. Modem has been disconnected. Modem board disconnected. 	 An error was returned during the dialup connection A network was detected at startup At startup the machine detected that the NIB was disabled, or did not detect a modem board

NOTE: For more details about this SC code error, execute **SP5990** to print an SMC report so you can read the error code. The error code is not displayed on the operation panel. Here is a list of error codes:

Error	Problem	Solution
1	Failure to certify dial-up	In the User Tools, check the dial-up user and dial- up password settings
4	Illegal modem setting	Check the setting of SP5816 160 to determine whether the setting for the AT command is correct. If this SP setting is correct, then the problem is a bug in the software.
5	Poor connection due to low power supply on the line.	The problem is on the external power supply line, so there is no corrective action on the machine.
11	Data in the NVRAM became corrupted when the network enable switch and Cumin-M were enabled at the same time.	Use SP5985 1 and set the NIC to "0" (Disable) to disable the network board.
12	The modem board could not enable the NIB.	Replace the modem board.

SC N	ο.	Symptom	Possible Cause
651		Illegal Remote Service Dial-up	
		An expected error occurred when Cumin-M dialed up the NRS Center.	 Software bug No action is required because only the count is logged
670	D	Engine startup error	
f		The machine engine, controlled by the BICU (Base Image Control Unit), was operating incorrectly when the machine was switched on or returned to normal operation from the energy save mode.	Check the connections between BICU and controller BICU defective Controller board defective PSU defective
672	В	Controller startup error	
		 After power on, the line between the controller and the operation panel did not open for normal operation. After normal startup, communication with the controller stopped. 	Controller stalled Controller installed incorrectly Controller board defective Operation panel harness disconnected or defective

SC700: Peripherals

SCI	No.	Symptom	Possible Cause
700	D	ADF original pick-up error 1 Pick-up roller HP sensor signal does not change after the pick-up motor has turned on.	Pick-up roller HP sensor defective Pick-up motor defective Timing belt slipping, out of position ADF main board defective
701	D	ADF bottom plate motor error	Not main source dollocate
		 Bottom plate position sensor does not detect the plate after the bottom plate lift motor switches on to lift the plate. Bottom plate HP sensor does not detect the plate after the bottom plate motor reverses to lower the plate. 	Bottom plate position sensor defective Bottom plate HP sensor defective Bottom plate motor defective ADF main board defective
720	D	Finisher transport motor error	
		The encoder pulse of the finisher transport motor does not change state (high/low) within 600 ms and does not change after 2 retries.	Finisher transport motor defective Transport motor harness disconnected, or defective Finisher main board defective
721	В	Finisher jogger motor error	
7.		 The finisher jogger HP sensor remains de-activated for more 1,000 pulses when returning to home position. The finisher jogger HP sensor remains activated for more than 1,000 pulses when moving away from home position. 	 Jogger HP sensor defective Jogger mechanism overload Jogger motor defective (not rotating) Finisher main board defective Harness disconnected or defective
723		Feed-Out Belt Motor (B478)	B246
		The pawl of the feed-out belt did not return to the home position during the prescribed time after 2 attempts to detect.	 Stack feed-out belt HP sensor loose, broken, defective Feed-out belt motor defective Finisher control board defective
724	В	Finisher staple hammer motor error (B478)
		The staple hammer motor did not return to the home position within the prescribed time (340 ms).	 Staple hammer HP sensor loose, broken, defective Electrical overload on the stapler drive PCB elect Staple hammer motor defective Finisher main board defective

	· · · · · · · · · · · · · · · · · · ·			
725	В	Finisher stack feed-out motor error	B140	
		The stack feed-out belt HP sensor does not activate within the prescribed number of pulses after the stack feed-out motor turns on and does not activate after 2 retries.	 Stack feed-out HP sensor defective Harness disconnected or defective Stack feed-out motor defective Finisher main board defective Motor overload 	
725		Exit guide motor	B246	
		The status of the exit guide sensor did not change at the prescribed time during operation of the exit guide.	 Exit guide open sensor loose, broken, defective. Exit guide motor defective Finisher main board defective 	

B140/B246 Duplicated Number

	140/BE40 Bupiloated Number				
726	В	Finisher upper tray lift motor error	B140		
		The paper height sensor does not activate within the prescribed time after the upper tray lift motor turns on, or the sensor remains on after the motor reverses to lower the tray.	 Upper tray paper height sensor defective Sensor harness disconnected, defective Tray lift motor defective Finisher main board defective Tray lift motor overload 		
726		Front shift jogger motor error (B703)	B246		
		The sides fences do not retract within the prescribed time after the shift jogger motor switches on. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.	 Shift jogger motor disconnected, defective Shift jogger motor overloaded due to obstruction Shift jogger HP sensor disconnected, defective 		

	140/D240 Daphoated Hamber		
727	В	Finisher stapler rotation motor error	B140
		The stapler motor switches on but the motor does not return to the home position within the prescribed number of pulses. After 2 counts, the SC is logged as a jam.	 Stapler rotation motor defective Poor stapler rotation motor connection Stapler rotation sensor defective Finisher main board defective Rotation motor overload
727	В	Rear shift jogger motor (B703) The side fences do not retract within the prescribed time after the shift jogger motor switches on. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.	Motor harness disconnected, loose, defective Motor defective Motor overload HP defective

728	В	Shift jogger retraction motor error (B703)	B246
		The side fences do not retract within the prescribed time after the retraction motor switches on. The 1st detection failure	Motor harness disconnected, loose, defective Motor defective
		issues a jam error, and the 2nd failure issues this SC code.	Motor overload
	:	issues this 5C code.	HP defective
729	D	Finisher punch motor error	B140
		The punch HP sensor does not activate within the prescribed time after the punch motor turns on.	Punch HP sensor defective Sensor harness disconnected, defective
			Punch motor defective
			Finisher main board defective
			Poor punch motor overload

	TO/DETO Dupinodica italiibei					
730	В	Finisher stapler movement motor error	B140			
		The stapler HP sensor does activate within the prescribed time after the stapler motor turns on and moves the stapler away from home position. After 2 counts, the SC is logged as a jam.	 Stapler HP sensor defective Sensor harness disconnected, defective Stapler movement motor defective Finisher main board defective Stapler movement motor overload 			
730	В	Finisher Tray 1 shift motor error	B246			
		The shift roller HP sensor of the upper tray does not activate within the prescribed time after the shift tray starts to move toward or away from the home position. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.	 Shift tray HP sensor of the upper tray disconnected, defective Shift tray motor of the upper tray is disconnected, defective Shift tray motor of the upper tray overloaded due to obstruction 			

732	В	Finisher shift roller motor error	
		The shift roller HP sensor does not activate within the prescribed time after the shift roller motor turns on. After 2 counts, the SC is logged as a jam.	 Shift roller HP sensor defective Sensor harness disconnected, defective Shift roller motor defective Finisher main board defective Shift roller motor overload
733	D	Finisher lower tray lift motor error	
		After the lift motor switches on to lift the tray, paper height sensor 2 does not detect the top of the paper stack, or after the motor reverses to lower the stack the top of the stack remains detected (the status of paper height sensor 1 does not change). After 2 counts, the SC is logged as a jam.	 Paper height sensor 1 or 2 defective Sensor harness disconnected, defective Tray lift motor defective Finisher main board defective Tray lift motor overload

735	R	Finisher pre-stack motor error	
735	В	 Finisher pre-stack motor error The pre-stack motor starts but does not return to the home position within 400 pulses. After 2 counts, the SC is logged as a jam. Motor does not return to the home position within 280 pulses immediately before or after prestacking. After 2 counts, the SC is logged as a jam. 	Jogger HP sensor defective Sensor harnesses disconnected, defective Pre-stack motor defective Finisher main board defective Pre-stack motor overload
736	В	Finisher paper exit guide plate motor The paper exit guide plate motor starts but the paper exit guide plate HP sensor does not activate within 750 ms. After 2 counts, the SC is logged as a jam.	Guide plate HP sensor defective Sensor harness disconnected, defective Paper exit guide plate motor defective Finisher main board defective Guide plate motor overload.
`737	В	Trimmed staple waste hopper full The hopper that holds the waste from staple trimming is full.	Staple waste hopper full Staple waste sensor defective
738	В	Finisher pressure plate motor error The pressure plate motor switches on but does not return to the home position within the prescribed time after 2 counts.	HP sensor defective Harness disconnected, defective Motor defective Finisher main board defective Motor overload
739	В	Finisher folder plate motor error The folder plate motor turns on but the plate does not return to the home position within the prescribed time for 2 counts.	Plate HP sensor defective Harness disconnected, defective Folder plate motor defective Finisher main board defective Folder plate motor overload

	140/B240 Dupincated Number				
740	В	Finisher front saddle-stitch stapler m	otor error	B140	
		Saddle-stitch stapler motor fails to operate within 450 ms within 2 counts	Stapler mFinisher r	or defective disconnected, defective notor defective main board defective notor overload	
740	В	Finisher corner stapler motor error		B246	
		The stapler motor does not switch off within the prescribed time after operating. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.	the limit fo	m of sheets in the stack exceeds or stapling notor disconnected, defective	

744	В	Finisher rear saddle-stitch stapler motor error B140				
741	B		tor error	B140		
		Saddle-stitch stapler motor fails to	HP sensor			
		operate within 450 ms within 2	 Harness d 	isconnected, defective		
		counts	 Stapler mo 	otor defective		
			 Finisher m 	ain board defective		
			 Stapler mo 	otor overload		
741	В	Finisher corner stapler rotation motor	error	B246		
		The stapler does not return to its home position within the specified	 Stapler rot defective 	ation motor disconnected,		
		time after stapling. The 1st detection failure issues a jam error,	 Stapler rot obstruction 	ation motor overloaded due to		
		and the 2nd failure issues this SC code.	Stapler rot defective	ration HP sensor disconnected,		

B140/B246 Duplicated Number

742	В	Finisher jogger side fence motor erro	r	B140
		The jogger motor turns on but the side fences to not return to the home position within 340 pulses for 2 counts.	HP sensors defective Harness disconnected, defective Motor defective Finisher main board defective Motor overload	
742	В	Finisher stapler movement motor error The stapler HP sensor is not activated within the specified time after the stapler motor turned on. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.	Stapler modefectiveStapler modefective	byement motor disconnected, byement motor overloaded due cicn sensor disconnected,

D 1 TO/L	140/B240 Duplicated Number				
743	В	Finisher shift motor errors	B140		
		For the optional jogger unit for the B706 finisher: During the return operation, the shift jogger motor or shift jogger fence lift motor did not return to the home position within the set number of pulses.	 HP sensor of shift jogger motor, harness, connector defective, or motor disconnected HP sensor, harness, connector of retraction motor defective, or motor disconnected Shift jogger motor defective Shift jogger fence lift motor defective Finisher main control board defective 		
743	В	Booklet stapler motor error 1	B246		
		The front stapler unit saddle-stitch motor does not start operation within the specified time. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.	Front motor disconnected, defective Front motor overloaded due to obstruction		

744	В	Booklet stapler motor error 2	B246
		The rear stapler unit saddle-stitch motor does not start operation within the specified time. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.	Rear motor disconnected, defective Rear motor overloaded due to obstruction

D 140/1	140/6246 Duplicated Number					
750	В	Cover interposer bottom plate motor	error	B140		
		 The bottom plate motor turns on to raise the bottom plate but the plate position sensor does not detect the plate within 3 s. The bottom plate motor reverses to lower the bottom plate but the bottom plate HP sensor does not detect the plate within 3 s. 	Bottom pBottom pCover sh	plate position sensor defective plate HP sensor defective plate motor defective neet feeder main board defective es disconnected, defective		
750	В	Finisher tray 1 (upper tray lift) motor e	error	B246		
		The upper tray paper height sensor does not change its status with the specified time after the tray raises or lowers. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.	Upper tra disconneFinisher loose	motor disconnected, defective ay paper height sensor ected, defective main board connection to motor main board defective		

753	В	Z-Folding unit error 3	B140
		The HP sensor of the upper stopper motor does not go off after the stopper moved 128.7 mm.	 Upper stopper motor defective Upper stopper motor disconnected, connector defective Upper stopper motor HP sensor disconnected, defective Z-Fold main control board defective
753	В	Return roller motor error	B246
		Occurs during the operation of the lower tray pressure motor.	 Motor harness disconnected, loose, defective Motor overloaded Home position sensor harness disconnected, loose, defective Home position defective

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754	D	Z-Folding unit error 4	B140		
		2000 ms after the fan motor switched on, the lock signal did not release.	 Fan motor defective Fan motor disconnected Fan motor locked because of too much load Z-Fold main control board defective 		
754		Z-Fold Unit Fan Motor Error	B246		
		The motor lock signal failed to release within 2 sec. after the Z-fold unit fan motor turned on.	 Fan motor connected loose, broken, defective Fan motor defective Fan blocked by an obstruction 		

755	В	Z-Folding unit error 5	B140
, 00		The fold timing sensor does not operate correctly.	 Paper dust on the sensor Sensor disconnected, defective Reflector plate dirty, or out of position Z-Fold main control board defective
756	В	Z-Folding unit error 6	B140
		The leading edge sensor does not operate correctly.	 Paper dust on the sensor Sensor disconnected, defective Reflector plate dirty, or out of position Z-Fold main control board defective
757	В	Z-Folding unit error 7	B140
		The machine could not write to the EEPROM two times (one after the other).	EEPROM defective, replace Z-Fold main control board
760	D	Finisher punch motor error	B246
		The punch HP sensor is not activated within the specified time after the pun motor turned on. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.	nch defective • Punch motor disconnected,
761	В	Finisher folder plate motor error	B246
		The folder plate moves but is not detected at the home position within t specified time. The 1st detection failuissues a jam error, and the 2nd failure issues this SC code.	 Folder plate motor disconnected, defective Folder plate motor overloaded due to obstruction.
762	В	Finisher pressure plate motor error	B246
		Pressure plate motor operating but the plate is not detected at the home position within the specified time. The 1st detection failure issues a jam error and the 2nd failure issues this SC cool.	disconnected, defective Pressure plate motor disconnected, defective

763	D	Punch movement motor error	B246		
'55	"	Occurs during operation of the punch	Motor harness disconnected, loose,		
		unit. The 1st detection failure issues a	defective		
		jam error, and the 2nd failure issues this	Motor defective		
		SC code.	Woter delective		
764	D	Paper position sensor slide motor error	B246		
		Occurs during operation of the punch	 Motor harness disconnected, loose, 		
		unit. The 1st detection failure issues a	defective		
		jam error, and the 2nd failure issues this	Motor defective		
765	В	SC code.	B246		
700	Þ	Folding unit bottom fence lift motor			
		The 1st detection failure issues a jam error, and the 2nd failure issues this SC	Motor harness disconnected, loose, defective		
		code.	Motor defective		
766	В	Clamp roller retraction motor error	B246		
'50	٦	The 1st detection failure issues a jam	Motor harness disconnected, loose,		
		error, and the 2nd failure issues this SC	defective		
		code.	Motor defective		
767	В	Stack junction gate motor error	B246		
'		Occurs during operation of the punch	Motor harness disconnected, loose,		
		unit. The 1st detection failure issues a	defective		
		jam error, and the 2nd failure issues this	Motor overload		
		SC code.	Motor defective		
770	В	Cover interposer tray bottom plate motor e	(
	,	After the motor starts to raise the	Bottom plate position sensor,		
		bottom plate, the bottom plate	disconnected, defective		
		position sensor does not detect the	Bottom plate HP sensor		
		plate at the specified time (3 s).	disconnected, defective		
		After the motor starts to lower the hottom plate LID	·		
		bottom plate, the bottom plate HP sensor does not detect the bottom			
		plate.			
780	В	Z-Fold feed motor error	B246		
	_	The feed motor does not attain the	Feed motor disconnected, defective		
		prescribed speed within the specified	Feed motor overloaded due to		
		time.	obstruction		
			Feed motor lock		
781	В	Z-Fold lower stopper motor	B246		
		The lower stopper motor does not attain	Lower stopper motor disconnected,		
		the prescribed speed within the specified	defective		
		time.	Lower stopper motor overloaded		
			due to obstruction		
			Lower stopper HP sensor		
700	P	7 Fold upper stemper mater	disconnected, defective		
782	В	Z-Fold upper stopper motor	B246		
		The upper stopper was not detected at the home position after the motor	Upper stopper motor disconnected, defeative.		
		remained on long enough to move it	defective		
	***************************************	128.7 mm.	Upper stopper motor overloaded due to obstruction		
			Upper stopper HP sensor		
			disconnected, defective		
			alooninotou, dollouve		

			**		
784		Z-fold timing unit fold timing sensor a	djustment	t error	B246
	r	The A/D (Digital/Analog) input value did not change even after the D/A (Digital/Analog) output value changed.	brokeFold tFold tpaper	n, defective iming sensor d iming sensor, I	connector loose, lefective mylar covered with
785		Z-fold leading edge sensor adjustmen	nt error	B246	
	·	The A/D input value did not change even after the D/A output value changed.	broke Leadi Leadi paper	n, defective ng edge senso ng edge senso	or, mylar covered with
786		Z-fold EEPROM error		B246	
,		The write operation to the Z-folding EEPROM failed after 2 attempts	• EEPF	ROM defective	
790	В	Finisher staple trimming hopper full		B246	
		The staple waste hopper is full of cut staples.	• If the		empty the hopper full, the hopper full ted, defective

SC800: Overall System

SC No.		Symptom	Possible Cause
817	В	Monitor Error This is a file detection and electronic file signature check error when the boot loader attempts to read the self-diagnostic module, system	OS Flash ROM data defective; change the controller firmware SD card data defective; use another SD card
,		kernel, or root system files from the OS Flash ROM, or the items on the SD card in the controller slot are false or corrupted.	

Error Codes

Code	Meaning
0x0000 0000	BIOS boot error
0x0000 0001	Primary boot start load error
0x0000 0002	Secondary boot load error (Boot3.Elf)
0x0000 0003	Self-diagnostic module error (Diag.Elf
0x0000 0004	Kernel start error (Netbsd)
0x0000 0005	Root file system file read error (Rootfs)
0xffff ffff	Other error

Example: Data in the self-diagnostic module, system kernel, or root system files are corrupted or do not exist in OS flash ROM or on the SD card Files in the self-diagnostic module, kernel, or root file system on the SD card have been falsified or altered

- Before discarding the SD card, try to update the data on the card. If the error occurs again, the card may be defective.
- Be sure to use an SD card that contains the correct electronic signature.

SC N	lo.		Symptom Possible Cause		
818	D	Watchdog	g error		
		running, a program (system program is a bus hold or interrupt goes into an endless loop, g any other programs from	 System program defective; switch off/on, or change the controller firmware if the problem cannot be solved Controller board defective Controller option malfunction 	
819	D	Fatal kerr	nel error		
		Due to a control error, a RAM overflow occurred during system processing. One of the following messages was displayed on the operation panel.		 System program defective Controller board defective Optional board defective Replace controller firmware 	
		0x696e	init died		
		0x766d	vm_pageout: VM is full		
		4361	Cache Error		
		Other			

NOTE: For more details about this SC code error, execute SP5990 to print an SMC report so you can read the error code. The error code is not displayed on the operation panel.

sc	No.	lo. Symptom Possible Cause		Possible Cause	
821	D	Self-d	Self-diagnostic error 2: ASIC		
		The ASIC provides the central point for the control of bus arbitration for CPU access, for option bus and SDRAM access, for SDRAM refresh, and for management of the internal bus gate.			
		0B0 0	Error code 0xffff ffff is returned when the register Write & Verify check is executed on the ASIC mounted on the controller board. The ASIC controls the ROM and buses for other devices.	ASIC (controller board defective)	
		0B0 6	ASIC not detected	 ASIC defective Poor connection between North Bridge and PCI I/F Replace controller board 	
		0B1 0	Failed to initialize or could not read connection bus. Data in SHM register incorrect.	Connection bus defective SHM defective Replace controller board	

NOTE: For more details about this SC code error, execute SP5990 to print an SMC report so you can read the error code. The error code is not displayed on the operation panel.

SCI	No.		Symptom	Possible Cause	
822	В	Self-dia	gnostic error 3: HDD		
		3003	Check performed when HDD is installed: HDD device busy for over 31 s. After a diagnostic command is set for Sthe HDD, but the device remains busy for over 6 s. A diagnostic command is issued to the HDD device but the result is an erro	HDD defective HDD harness disconnected, defective Controller board defective	
		3004	No response to the self- diagnostic command from the ASIC to the HDDs	HDD defective	
		3013	Mandolin does not respond, the HDD device remains BUSY for more than 31 s, or the BUSY signal does not drop within 6 s after the diagnostic command is issued to the HDDs.	HDD defective HDD connector loose or defective Controller defective	

SCI	Vo.	Symptom			Possible Cause
		3014	Error returned from HDD in response to the self-diagnostic command, Mandolin could not be located due to a read/write error at the HDD register.	6	HDD defective
824	D	NVRAM NVRAM socket	gnostic error 4: NVRAM I device does not exist, I device is damaged, NVRAM damaged	9	NVRAM defective Controller board defective NVRAM backup battery exhausted NVRAM socket damaged
826	D	Self-dia 1501 15FE	gnostic error 6: NVRAM (option The difference between the 1 s measured for RTC in the NVRAM and the 1 s timeout of the CPU is out of range, or the NVRAM is not detected. Backup battery error. Battery is exhausted or not within	•	RAM) NVRAM defective NVRAM installed incorrectly The battery is attached permanently to the controller board. Replace the
828	D	Mea mon	rated specification. agnostic error 7: ROM suring the CRC for the boot itor and operating system ram results in an error.		controller board.
		 A check of the CRC value for ROMFS of the entire ROM area results in an error. 			

NOTE: For more details about this SC 833, SC834 error, execute SP5990 to print an SMC report so you can read the error code. The error code is not displayed on the operation panel. The additional error codes (0F30, 0F31, etc. are listed in the SMC report.

SC	No.	Symptom	Possible Cause	
833	D	Self-diagnostic error 8: Engine I/F ASIC		
0F30 0F31		ASIC (Mandolin) for system control could not be detected. After the PCI configuration, the device ID for the ASIC could not be checked.	 ASCI (Mandolin) for system control is defective Interface between North Bridge and AGPI is defective Replace the mother board 	
0F41		The read/write check done for resident RAM on the mother board could not be done correctly.	Memory device defective Replace the mother board	
50B1		Could not initialize or read the bus connection.	Bus connection defective, looseSSCG defectiveReplace the mother board	
50B2		Value of the SSCG register is incorrect.	 Bus connection loose, defective SSCG defective Replace the mother board 	
834	D	Self-diagnostic error 9: Optional Me	mory RAM DIMM	
5101		The write/verify check for the optional RAM chip on the engine mother board gave an error.	Controller defective Mother board defective	
850	В	Net I/F error		

SC	No.	Symptom	Possible Cause
		 Duplicate IP addresses. Illegal IP address. Driver unstable and cannot be used on the network. 	IP address setting incorrect NIB (PHY) board defective Controller board defective
851	В	IEEE 1394 I/F error Driver setting incorrect and cannot be used by the 1394 I/F.	 NIB (PHY), LINK module defective; change the Interface Board Controller board defective
853	В	Wireless LAN Error 1	
		During machine start-up, the machine can get access to the board that holds the wireless LAN, but not to the wireless LAN card (802.11b or Bluetooth).	Wireless LAN card missing (was removed)
854	В	Wireless LAN Error 2	
,		During machine operation, the machine can get access to the board that holds the wireless LAN, but not to the wireless LAN card (802.11b or Bluetooth).	Wireless LAN card missing (was removed)
855	В	Wireless LAN error 3	
		An error was detected on the wireless LAN card (802.11b or Bluetooth).	Wireless LAN card defective Wireless LAN card connection incorrect
856	В	Wireless LAN error 4	
		An error was detected on the wireless LAN card (802.11b or Bluetooth).	Wireless LAN card defective PCI connector (to the mother board) loose
857	В	USB I/F Error	
		The USB driver is not stable and caused an error.	Bad USB card connectionReplace the controller board
860	В	 HDD startup error at main power on HDD is connected but a driver error is detected. The driver does not respond with the status of the HDD within 30 s. 	 HDD is not initialized Level data is corrupted HDD is defective
861	D	HDD re-try failure At power on with the HDD detected, power supply to the HDD is interrupted, after the HDD is awakened from the sleep mode, the HDD is not ready within 30 s.	 Harness between HDD and board disconnected, defective HDD power connector disconnected HDD defective Controller board defective

SC	No.	Symptom	Possible Cause
863	D	HDD data read failure	
		The data written to the HDD cannot be read normally, due to bad sectors generated during operation.	HDD defective Note: If the bad sectors are generated at the image partition, the bad sector information is written to NVRAM, and the next time the HDD is accessed, these bad sectors will not be accessed for read/write operation.
864	D	HDD data CRC error	
		During HDD operation, the HDD cannot respond to an CRC error query. Data transfer did not execute normally while data was being written to the HDD.	HDD defective
865	D	HDD access error	
		HDD responded to an error during operation for a condition other than those for SC863, 864.	HDD defective.
866	В	SC card error 1: Confirmation	
		The machine detects an electronic license error in the application on the SD card in the controller slot immediately after the machine is turned on. The program on the SD card contains electronic confirmation license data. If the program does not contain this license data, or if the result of the check shows that the license data in the program on the SD card is incorrect, then the checked program cannot execute and this SC code is displayed.	Program missing from the SD card Download the correct program for the machine to the SD card
867	D	SD card error 2: SD card removed The SD card in the boot slot when the machine was turned on was removed while the machine was on.	Insert the SD card, then turn the machine off and on.
868	D	SD card error 3: SC card access	
		An error occurred while an SD card was used.	 SD card not inserted correctly SD card defective Controller board defective Note: If you want to try to reformat the SC card, use SD Formatter Ver 1.1.

870	В	Address book data error	
		Address book data on the hard disk was detected as abnormal when it was accessed from either the operation panel or the network. The address book data cannot be read from the HDD or SD card where it is stored, or the data read from the media is defective.	 Software defective. Turn the machine off/on. If this is not the solution for the problem, then replace the controller firmware. HDD defective.
		 More Details Do SP5846 050 (UCS Settings – address book data. Reset the user information with S Information). Replace the HDDs. Boot the machine from the SD ca 	
873	В	HDD mail send data error An error was detected on the HDD immediately after the machine was turned on, or power was turned off while the machine used the HDD.	Do SP5832-007 (Format HDD – Mail TX Data) to initialize the HDD. Replace the HDD
874	D	Delete All error 1: HDD A data error was detected for the HDD/NVRAM after the Delete All option was used. Note: The source of this error is the Data Overwrite Security Unit B660 running from an SD card.	Turn the main switch off/on and try the operation again. Install the Data Overwrite Security Unit again. For more, see section "1. Installation". HDD defective
875	D	Delete All error 2: Data area An error occurred while the machine deleted data from the HDD. Note: The source of this error is the Data Overwrite Security Unit B660 running from an SD card.	Turn the main switch off/on and try the operation again.
880	D	File Format Converter (MLB) error A request to get access to the MLB was not answered within the specified time.	MLB defective, replace the MLB

SC900: Miscellaneous

SC No.		Symptom	Possible Cause	
900	D	Electrical total counter error	B140	
		The total counter contains	NVRAM incorrect type	
		something that is not a number.	NVRAM defective	
			NVRAM data scrembled	
			Unexpected error from external source	
901	D	Mechanical total counter error		
		The mechanical counter is not	Mechanical total counter defective	
		connected.	Mechanical total counter connector not	
			connected	
910	D	External Controller Error 1		
911	ם	External Controller Error 2		
912	D	External Controller Error 3	B140/B246	
913	D	External Controller Error 4	·	
914	D	External Controller Error 5	•	
		The external controller alerted	Please refer to the instructions for the	
		the machine about an error.	external controller.	
919	В	External Controller Error 6 B140/E	3246	
		While EAC (External Application	Power outage at the EFI controller	
		Converter), the conversion	EFI controller was rebooted	
		module, was operating normally,	Connection to EFI controller loose	
		the receipt of a power line		
		interrupt signal from the FLUTE		
		serial driver was detected, or BREAK signal from the other		
		station was detected.	· 	
920	В	Printer error 1	B140	
		An internal application error was	Software defective; turn the machine	
		detected and operation cannot	off/on, or change the controller firmware	
		continue.	Insufficient memory	
921	В	Printer error 2	B140	
		When the application started,	Font not on the SC card	
		the necessary font was not on		
		the SD card.	· .	

SC No.		Symptom	Possible Cause
925	No.	NetFile Function Error The NetFile file management on the HDD cannot be used, or a NetFile management file is corrupted and operation cannot continue. The HDDs are defective and they cannot be debugged or partitioned, so the Scan Router functions (delivery of received faxes, document capture, etc.), Fabric services, and other network functions cannot be used.(HDD status codes)	Possible Cause HDD defective Power supply to machine cut occurred while writing data to HDD Software error Please refer to the detailed descriptions below for recovery
		displayed on the debug console are described below.)	procedures.

HDD Status Codes Displayed on Debug Console

Display	Meaning	
(-1)	HDD not connected	
(-2)	HDD not ready	
(-3)	No level	
(-4)	Partition type incorrect	
(-5)	Error returned during level read or check	
(-6)	Error returned during level read or check	
(-7)	"filesystem" repair failed	
(-8)	"filesystem" mount failed	
(-9)	Drive does not answer command	
(-10)	Internal kernel error	
(-11)	Size of drive is too small	
(-12)	Specified partition does not exist	
(-13)	Device file does not exist	

Recovery Procedure 1

If the machine returns SC codes for HDD errors (SC860 ~ SC865), please follow the recovery procedures described for these SC codes.

Recovery Procedure 2

If the machine does not return one of the five HDD errors (SC860 ~ SC865), cycle the machine off and on. If this does not solve the problem, then initialize the NetFile partition on the HDD with **SP5832 011** (HDD Formatting – Ridoc I/F).

NetFiles: Jobs printed from the document server using a PC and DeskTopBinder Before initializing the NetFile partition on the HDD please inform the client that:

- 1. Received faxes on the delivery server will be lost
- 2. All captured documents will be lost
- 3. DeskTopBinder/Print Job Manager/Desk Top Editor job history will be cleared
- Documents stored on the document server, included scanned documents, will
 not be lost.
- 5. The first time the network accesses the machine, the management information must be reconfigured (this will require a significant amount of time).

Before initializing the Netfile partition with SP5823 011, do the following:

- 6. Enter the User Tools mode and execute "Delivery Settings" to print all received fax documents scheduled for delivery and delete them.
- 7. In the User Tools mode, execute Document Management> Batch Delete Transfer Documents.
- 8. Execute **SP5832 011** then cycle the machine off and on.

Recovery Procedure 3

If "Procedure 2" does not solve the problem, execute **SP5832 001** (HDD Formatting – All), then cycle the machine off and on.

Executing **SP5832 001** erases all document and address book data stored on the hard disks. Be sure to consult with the customer before executing this SP code.

Recovery Procedure 4

If "Recovery Procedures 1 to 3" fail to correct the problem, replace the HDD.

		Symptom	Possi ի le Cause
953	D	Scanner image setting error The settings required for image processing using the scanner are not sent from the IPU.	Software defective
954	D	Printer image setting error The settings required for image processing using the printer controller are not sent from the IPU.	Software defective
955	D	Memory setting error The settings that are required for image processing using the memory are not sent from the IPU.	Software defective
964	D	Printer ready error The print ready signal is not generated for more than 17 seconds after the IPU received the print start signal.	Software defective
984	D	Print image data transfer error After a data transfer begins from the controller to the engine via the PCI bus, the transfer does not end within 15 s.	Controller (SIMAC) board defective BICU defective BICU ⇔ controller disconnected
985	D	Scanned image data transmission err After a data transfer begins from the engine to the controller via the PCI bus, the transfer does not end within 3 s.	or Controller (SIMAC) board defective EBCU defective BICU ⇔controller disconnected
986	D D	Software error 1 The write parameter received by the write module at the beginning of the setting table is NULL. Software error 2	Controller (SIMAC) board defective BICU defective BICU ⇔controller disconnected
990	<u> </u>	JUILWAIE EITULZ	B140

SC No.		Symptom	Possible Cause
		The software performs an unexpected function and the program cannot continue.	Software defective, re-boot*1
991	С	Software error 3	B140
		The software performs an unexpected function and the program cannot continue. However, unlike SC990, recovery processing allows the program to continue.	Software defective, re-boot*1

- ^{*1}: In order to get more details about SC990 and SC991:
 - 3) Execute SP7403 or print an SMC Report (SP5990) to read the history of the 10 most recent logged errors.
 - 4) If you press the zero key on the operation panel with the SP selection menu displayed, you will see detailed information about the recently logged SC990 or SC991, including the software file name, line number, and so on. 1) is the recommended method, because another SC could write over the information for the previous SC.

SC No.		Symptom	Possible Cause
992	D	Software error 4: Undefined	B140
		An error not controlled by the system occurred (the error does not come under any other SC code).	 Software defective Turn the machine power off and on. The machine cannot be used until this error is cleared.
SC994	С	Operation Panel Management Reco	ords Exceeded B246
		An error occurred because the number of records exceeded the limit for images managed in the service layer of the firmware. This can occur if there if there are too many application screens open on the operation panel.	No action required because this SC does not interfere with operation of the machine.
997	В	Cannot select application function	B140
		An application does not start after the user pushed the correct key on the operation panel.	Software bug A RAM or DIMM option necessary for the application is not installed or not installed correctly.
998	D	Application cannot start	B140
		Register processing does not operate for an application within 60 s after the machine power is turned on. No applications not start correctly, and all end abnormally.	Software bug A RAM or DIMM option necessary for the application is not installed or not installed correctly.