

[9] TROUBLE CODE LIST

1. Trouble code

Trouble code	Content of trouble	Remark	Trouble detection
C1	00 MC trouble		PCU
C2	00 TC trouble		PCU
E7	00 ICU communication trouble		ICU
	01 Image data memory trouble		ICU
	02 Laser trouble		ICU
	03 HDD trouble		ICU
	10 Shading trouble (Black correction)		ICU
	11 Shading trouble (White correction)		ICU
	13 CCD light quantity check error		ICU
	90 ICU communication trouble		PCU
F1	00 Finisher communication trouble		PCU
	01 Finisher 1 jogger shift trouble / Finisher 2 alignment section abnormality		FIN
	02 Finisher transport motor abnormality		FIN
	03 Sorter guide bar oscillation motor trouble		SOT
	04 Finisher 1 elevator lower limit detection / Finisher 2 stack tray lower limit detection		FIN
	05 Finisher 1 elevator home / Finisher 2 stack tray sensor abnormality		FIN
	06 Finisher shift motor abnormality		FIN
	08 Finisher staple shift motor trouble		FIN
	10 Finisher staple unit operation trouble		FIN
	11 Finisher 1 pusher motor trouble / Finisher 2 boomerang rotation abnormality		FIN
	14 Finisher 2 stack tray abnormality		FIN
	15 Finisher 1 elevator motor trouble / Finisher 2 stack tray motor lock		FIN
	16 Staple sorter holding motor trouble		SOT
	17 ST paper exit roller pressure release trouble		FIN
	18 Tray 3 paper exit paddler operation trouble		FIN
	50 Non-support trouble in automatic detection of option connection (Sorter, finisher)		PCU
	80 Finisher power not supplied		FIN
F2	00 Toner control sensor open		PCU
	02 Toner motor connector unconnected		PCU
	31 Process control trouble (OPC drum surface reflection rate abnormality)		PCU
	32 Process control trouble (Drum marking scanning trouble)		PCU
	37 Drum marking sensor gain adjustment error		PCU
	39 Process thermistor breakdown		PCU
F3	12 Copier top stage CS lift up trouble		PCU
	22 Copier bottom stage CS lift up trouble		PCU
F9	00 Printer communication trouble		ICU
	01 PRT DRAM trouble		PRT
	02 PRT Centropoint check error		PRT
	03 Network card trouble		
	04 Printer program error		
	10 PRT SCSI LSI abnormality		ICU
	90 Printer communication trouble		PRT
H2	00 Thermistor open (HL1)		PCU
	01 Thermistor open (HL2)		PCU
H3	00 Heat roller high temperature detection (HL1)		PCU
	01 Heat roller high temperature detection (HL2)		PCU
H4	00 Heat roller low temperature detection (HL1)		PCU
	01 Heat roller low temperature detection (HL2)		PCU

Trouble code	Content of trouble	Remark	Trouble detection
H5	01 3 continuous POD1 not-reaching JAM detection		PCU
	02 Fusing thermistor abnormality		PCU
L1	00 Scanner feed trouble		PCU
L3	00 Scanner return trouble		PCU
L4	01 Main motor lock detection		PCU
L6	10 Polygon motor lock detection		ICU
L8	01 No full-wave signal		PCU
	02 Full-wave signal width abnormality		PCU
U2	00 EEPROM read/write error		ICU
	11 Counter check sum error (EEPROM)		ICU
	12 Adjustment value check sum error (EEPROM)		ICU
U4	02 ADU alignment plate operation abnormality		PCU
	03 ADU rear edge plate operation abnormality		PCU
U5	00 RADF/SPF/RSPF communication trouble		PCU
	01 RADF resist sensor trouble		RADF
	02 RADF eject/inversion sensor trouble		RADF
	03 RADF timing sensor trouble		RADF
	06 RSPF post-separation sensor trouble		RSPF
	07 RSPF read sensor trouble		RSPF
	08 RSPF SB sensor trouble		RSPF
	11 RADF paper feed motor operation abnormality		RADF
	16 RSPF fan motor operation abnormality		RSPF
U6	00 Desk communication trouble		PCU
	01 Desk 1 CS lift up trouble		Desk
	02 Desk 2 CS lift up trouble		Desk
	03 Desk 3 CS lift up trouble		Desk
	08 Desk 24V power abnormality		Desk
	09 LCC lift motor trouble		LCC
	10 Desk transport motor trouble		Desk
	20 LCC communication trouble		PCU
	21 LCC transport motor trouble		LCC
	22 LCC 24V power abnormality		LCC
	50 Non-support trouble in automatic detection of option connection (Desk unit)		PCU
	51 Non-support trouble in automatic detection of option connection (LCC unit)		PCU
U7	00 RIC communication trouble		PCU
U9	00 Operation control communication trouble		ICU
	90 Operation control communication trouble		OPE
EE	EL Auto developing adjustment trouble (Overtoner)	In SIM only	PCU
	EU Auto developing adjustment trouble (Undertoner)	In SIM only	PCU
FC	00 ASK/IrDA modulation LSI reset error		
	01 ASK/IrDA switch error		
PC		Personal counter not installed	ICU
PF		RIC copy inhibit command reception	ICU
--		Auditor not ready	ICU

2. Self diagnostics

Trouble code		Description	
Main code	Sub code		
C1	00	Content	MC trouble
		Detail	Main charger output error (output released) Trouble signal from high-voltage transformer
		Cause	Main charger improperly installed Main charger improperly assembled High-voltage transformer connector removed High-voltage harness removed or wire broken
		Check and remedy	Check main charger output with SIM8-2. Check main charger connector for disconnection. Replace high-voltage unit.
C2	00	Content	TC trouble
		Detail	Transfer charger output error (output short-circuiting) Trouble signal from high-voltage transformer
		Cause	Transfer charger contaminated with foreign matter Transfer charger wire broken High-voltage transformer connector disconnected
		Check and remedy	Check transfer charger output with SIM8-6. Replace high-voltage unit.
E7	00	Content	ICU communication trouble (ICU detection)
		Detail	Communication setup error, framing/parity/protocol error
		Cause	Slave unit PWB connector improper connection Slave unit PWB – ICU PWB harness trouble Connector pin breakage of the motor PWB of the slave unit PWB Slave unit ROM trouble. no ROM, ROM reverse insertion, ROM pin breakage
		Check and remedy	Connect the connector of the slave unit PWB and the ICU PWB. Check the connection and the harness. Check the grounding of the copier. Check the ROM of the slave unit PWB.
	01	Content	Image data memory trouble
		Detail	The ICU image data memory (SIMM) is detected only as 8MB or less. The SIMM capacity is insufficient for the model.
		Cause	The ICU PWB SIMM is not installed. The ICU PWB SIMM does not work properly. The ICU PWB SIMM is not installed properly. ICU PWB abnormality
		Check and remedy	Check installation of the ICU PWB SIMM. Check the SIMM capacity with SIM 22-10. Replace the ICU PWB SIMM.

Trouble code		Description	
Main code	Sub code		
E7	02	Content	Laser trouble
		Detail	BD signal from LSU kept at OFF or ON
		Cause	Connector to LSU or harness inside LSU disconnected or wire broken Polygon motor improperly rotating Laser home position sensor improperly positioned inside LSU Laser power supply line does not have proper voltage Laser LED improperly lighting ICU PWB error
		Check and remedy	Check LSU connector for disconnection. Check LSU operation with SIM61-1. Check polygon motor for rotation. Check laser LED for lighting. Replace LSU unit. Replace ICU PWB.
	03	Content	HDD trouble
		Detail	HDD is not recognized in the model with HDD installed.
		Cause	The HDD is not installed to the ICU PWB. The HDD does not work properly in the ICU PWB. The HDD is not installed to the ICU PWB properly. ICU PWB abnormality
		Check and remedy	Check installation of the HDD to the ICU PWB. Check connection of the HDD harness to the ICU. Replace the HDD. Replace the ICU PWB.
	10	Content	Shading trouble (black correction)
		Detail	Improper CCD black reading level for copy lamp going out
		Cause	Improper installation of flat cable to CCD unit CCD unit error ICU PWB error
Check and remedy		Check flat cable to CCD unit for installation. Check CCD unit. Check ICU PWB.	
11	Content	Shading trouble (white correction)	
	Detail	Improper CCD white reference plate reading level for copy lamp lighting	
	Cause	Improper installation of flat cable to CCD unit Mirror, lens or reference white plate contaminated Copy lamp operation error Improperly installed CCD unit CCD unit error ICD PWB error	
	Check and remedy	Clean mirror, lens, or reference white plate. Check copy lamp for light amount (SIM5-3) and lighting. Check CCD unit. Check ICU PWB.	

Trouble code		Description	
Main code	Sub code		
E7	13	Content	CCD light quantity check error
		Detail	Copy lamp light amount adjustment in shading cannot be made
		Cause	Copy lamp does not light (broken wire, improper installation) Improper installation of flat cable to CCD unit Improper connection of copy lamp CL lead wire Mirror, lens, or reference white plate Dirt or dew Improper output of copy lamp power supply Improper installation of CCD unit CCD unit error ICU PWB error
		Check and remedy	Clean mirror, lens, reference white plate. Check copy lamp for light amount (SIM5-3) and lighting. Check CCD unit. Check ICU PWB.
	90	Content	ICU communication trouble (PCU detection)
		Detail	Communication setup error/framing/parity/protocol error
		Cause	Slave unit PWB connector improper connection Slave unit PWB – ICU PWB harness trouble Slave unit PWB mother board connector pin breakage
		Check and remedy	Check the slave unit PWB and the ICU PWB connector connection. Check the copier earth.
F1	00	Content	Finisher communication trouble
		Detail	Communication line test error occurs when power is turned on or after the exit of a simulation mode. Improper communication with sorter
		Cause	Improper connection or broken wire of connector or harness between copier and sorter Finisher control PWB defective Control PWB (PCU) defective Malfunction due to noise
		Check and remedy	Clear by turning the power supply OFF/ON. Check communication line connector and harness. Replace Finisher control PWB or PCU PWB.
	01	Content	Finisher1 jogger shift trouble / Finisher 2 alignment section abnormality
		Detail	Jogger shift trouble / Alignment plate shift trouble
		Cause	Motor lock Motor rpm abnormality Motor overcurrent Finisher control PWB trouble
		Check and remedy	Check the jogger motor operation with SIM 3-3.

Trouble code		Description	
Main code	Sub code		
F1	02	Content	Finisher transport motor abnormality
		Detail	Transport motor drive trouble
		Cause	Motor lock
		Check and remedy	Check transport motor operation with SIM3-3.
	03	Content	Sorter guide bar oscillation motor trouble
		Detail	Sorter guide bar oscillation motor drive abnormality
		Cause	Motor lock. Motor rotation abnormality. Overcurrent to motor Sorter control PWB abnormality
		Check and remedy	Check the guide bar motor operation with SIM3-3.
	04	Content	Finisher 1 elevator lower limit detection / Finisher 2 stack tray lower limit detection
		Detail	When the bin is shifted, the upper limit or the lower limit sensor is detected. / The elevator exceeds the lower limit.
		Cause	Sensor defective Sorter/finisher control PWB abnormality
		Check and remedy	Check sensor with SIM3-2.
	05	Content	Finisher 1 elevator home / Finisher 2 stack tray sensor abnormality
		Detail	The elevator does not detect the home position. / Stack tray sensors are turned on in the abnormal combination.
		Cause	Sensor defective Sorter/finisher control PWB abnormality
		Check and remedy	Check sensor with SIM3-2.
	06	Content	Finisher shift motor abnormality
Detail		1) Bin shift is not completed within 2.5 seconds after bin shift request	
Cause		Motor lock Improper motor speed Overcurrent to motor Finisher control PWB defective	
Check and remedy		Check bin shift motor operation with SIM3-4.	
08	Content	Finisher staple shift motor trouble	
	Detail	Staple motor drive trouble	
	Cause	Motor lock Motor rpm abnormality Overcurrent to motor Finisher control PWB trouble	
	Check and remedy	Check the operation of the staple motor with SIM 3-3.	
10	Content	Finisher staple unit operation trouble	
	Detail	Staple operation trouble	
	Cause	Motor lock Motor rpm abnormality Motor overcurrent Finisher control PWB trouble	
	Check and remedy	Check the staple motor operation with SIM 3-3.	

Trouble code		Description	
Main code	Sub code		
F1	11	Content	Finisher 1 pusher motor trouble / Finisher 2 boomerang rotation abnormality
		Detail	Pusher motor trouble / Paddle solenoid abnormality
		Cause	Motor lock / paddle solenoid operation abnormality / boomerang rotation sensor abnormality Motor rpm abnormality Motor overcurrent Finisher control PWB abnormality
		Check and remedy	Check the finisher motor operation, the paddle solenoid operation with SIM 3-3 or check the boomerang rotation sensor with SIM 3-2.
	14	Content	Finisher 2 stack tray abnormality
		Detail	Stack tray control sensor abnormality
		Cause	The paper surface sensor and the full stack sensor do not turn on even when a certain time is passed after starting the tray.
		Check and remedy	Check the sensor operation with SIM 3-2.
	15	Content	Finisher 1 elevator motor trouble / Finisher 2 stack tray motor lock
		Detail	Elevator motor trouble
		Cause	Motor lock Motor rpm abnormality Motor overcurrent Finisher control PWB trouble
		Check and remedy	Check the elevator motor operation with SIM 3-3.
	16	Content	Staple sorter holding motor trouble
		Detail	During rotation of the holding motor, the rotation pulse is not detected for 0.05sec or more.
		Cause	Motor lock. Motor rotation abnormality. Overcurrent to motor Sorter control PWB abnormality
		Check and remedy	Check the holding motor operation with SIM3-3.
	17	Content	ST pressure release HP trouble
		Detail	ST paper exit roller pressure release trouble when turning on the power/initializing
		Cause	ST paper exit roller pressure release clutch abnormality ST paper exit roller pressure release clutch HP sensor abnormality
		Check and remedy	Stop the transport motor in SIM 3-3, turn on the STORCL to check that the pressure release roller operates. Check the STORHP sensor with SIM 3-2.
18	Content	Tray 3 paper exit paddler operation trouble	
	Detail	Tray 3 paper exit paddler operation trouble when turning on the power/initializing	
	Cause	Tray 3 paper exit paddler solenoid abnormality Tray 3 paper exit paddler HP sensor abnormality Finisher control PWB trouble	
	Check and remedy	Operate the transport motor with SIM 3-3 and turn on T3PDSL to check that tray 3 paddler operates. Check T3PDHP sensor with SIM 3-2.	

Trouble code		Description	
Main code	Sub code		
F1	50	Content	Non-support trouble in automatic detection of option connection (Sorter, finisher)
		Detail	In automatic detection of option connection, a non-support finisher or a sorter is detected.
		Cause	A non-support finisher or a sorter is connected to the copier.
		Check and remedy	Check the finisher or the sorter.
	80	Content	Finisher power not supplied
		Detail	24V power is not supplied to the finisher PWB.
		Cause	Connector harness improper connection or disconnection Finisher control PWB trouble Power unit trouble
		Check and remedy	Check the sensor operation with SIM 3-2.
	F2	00	Content
Detail			Toner control sensor output open
Cause			Connector harness trouble Connector unconnected.
Check and remedy			Check connection of the toner control sensor. Check connection of the connector harness with the main PWB. Check for disconnection of the harness.
02		Content	Toner motor connector unconnected
		Detail	Connection detection signal with toner motor is OFF
		Check and remedy	Check toner motor connector for connection. Check connector harness to main PWB for connection. Check harness for broken wire.
31		Content	Process control trouble (OPC drum surface reflection rate abnormality)
		Detail	Usually the sensor gain is adjusted so that the output is a certain value, by reading the drum base surface with the image density sensor before starting process control. However, a certain output is not obtained by adjusting the sensor gain.
	Cause	Image density sensor defective	
	Check and remedy	Check process control sensor output with SIM44-2. (Do not adjust) If the result is far different from the specified value, it suggests the sensor is defective. Check the sensor and harness. If the deviation is relatively small, check the sensor and drum surface for contamination.	

Trouble code		Description	
Main code	Sub code		
F2	32	Content	Process control trouble (Drum marking scanning trouble)
		Detail	Usually the sensor gain is adjusted so that the output is a certain value, by reading the drum base surface with the drum marking sensor before starting process control. However, a certain output is not obtained by adjusting the sensor gain.
		Cause	Drum marking sensor defective Improper connection of harness between PCU PWB and drum marking sensor Drum marking sensor contaminated OPC drum cleaning improper Charging voltage improper
		Check and remedy	Check process control output with SIM44-02. (Do not adjust.) If the result is far different from the specified value, it suggests the sensor is defective. Check the sensor and harness. If the deviation is relatively small, check the sensor and drum surface for contamination.
	37	Content	Drum marking sensor gain adjustment error
		Detail	When the drum marking area surface is scanned with the drum marking sensor before starting process control and the sensor gain is adjusted until a constant output is provided, the output is not constant though the sensor gain is changed.
		Cause	Drum marking sensor trouble Improper connection between PCU PWB and drum marking sensor Drum marking sensor is dirty OPC drum cleaning trouble
		Check and remedy	Perform the gain adjustment of process control sensor with SIM 44-2. If ERROR is displayed, it may be a breakdown. Check the sensor and the harness. When the adjustment is completed, check the drum surface conditions.
	39	Content	Process thermistor breakdown
		Detail	The process thermistor is open.
		Cause	Process thermistor abnormality Improper connection of the process thermistor bar PCU PWB abnormality
	Check and remedy	Check connection of the process thermistor harness and connector. Check the PCU PWB.	
F3	12	Content	Copier top stage CS lift up trouble
		Detail	UPED does not turn on within the specified time. ULUD does not turn on within the specified time.
		Cause	UPED or ULUD defective Upper cassette lift-up motor defective Improper connection of harness between PCU PWB, lift-up unit, and paper feed unit.
		Check and remedy	Check UPED, ULUD and their harness and connector. Check lift-up unit.

Trouble code		Description		
Main code	Sub code			
F3	22	Content	Copier bottom stage CS lift up trouble	
		Detail	LPED does not turn on within the specified time. LLUD does not turn on within the specified time.	
		Cause	LPED or LLUD defective Lower cassette lift-up motor defective Improper connection of harness between PCU PWB, lift-up unit, and paper feed unit.	
		Check and remedy	Check LPED, LLUD, their harnesses and connectors. Check lift-up unit.	
	F9	00	Content	Printer communication trouble (ICU detection)
			Detail	Communication setup error, framing/parity/protocol error
			Cause	Slave unit PWB connector improper connection Slave unit PWB – ICU PWB harness trouble Connector pin breakage of the motor PWB of the slave unit PWB Slave unit ROM trouble. no ROM, ROM reverse insertion, ROM pin breakage
		Check and remedy	Connect the connector of the slave unit PWB and the ICU PWB. Check the connection and the harness. Check the grounding of the copier. Check the ROM of the slave unit PWB.	
		01	Content	PRT DRAM trouble
			Detail	Option printer PWB DRAM trouble (Check when turning on the power.)
	Cause		DRAM module is broken and access cannot be made. DRAM module improper installation	
	Check and remedy	Check with SIM 67-1.		
03	Content	Network card trouble.		
	Detail	Network card self test trouble.		
	Cause	Network card defect. Printer PWB defect. Network card connector connection defect.		
Check and remedy	Check the Network card connector. Replace the printer PWB. Replace the Network card.			
04	Content	Printer program error.		
	Detail	Program data trouble in the option printer board.		
	Cause	Flash memory data is destroyed.		
Check and remedy	Replace or rewrite the Flash memory. Replace the printer PWB.			
10	Content	PRT SCSI LSI abnormality		
		Detail	An error occurred in SCSI communication with the option printer board.	
	Cause	SCSI LSI abnormality ISU PWB abnormality SCSI connector improper connection		
		Check and remedy	Replace the printer PWB. Check the SCSI connector. Replace the ISU PWB.	

Trouble code		Description	
Main code	Sub code		
F9	90	Content	Printer communication trouble (PRT detection)
		Detail	Communication setup error/framing/parity/protocol error
		Cause	Slave unit PWB connector improper connection Slave unit PWB – ICU PWB harness trouble Slave unit PWB mother board connector pin breakage
		Check and remedy	Check the slave unit PWB and the ICU PWB connector connection. Check the copier earth.
H2	00...HL1 01...HL2	Content	Thermister open Fusing unit not installed
		Detail	Thermister is open (more than 4.6-V input voltage is detected). Fusing unit not installed
		Cause	Thermister defective Control PWB defective Improper connection of fusing connector AC power supply defective Fusing unit not installed
		Check and remedy	Check harness and connector between thermister and control PWB. Clear the display of self-diagnostics with SIM14.
H3	00...HL1 01...HL2	Content	Heat roller high temperature detection
		Detail	The fusing temperature is over 241.5° C (less than 1.3-V input voltage is detected.)
		Cause	Thermister defective Control PWB defective Improper connection of fusing unit connector AC power supply defective
		Check and remedy	Check heater lamp operation with SIM5-2. If lamp blinks properly: Check thermister and its harness. Check thermister input circuit of control PWB. If lamp lights and stays lit: Check lamp control circuits of AC PWB and control PWB. Clear the trouble with SIM14.

Trouble code		Description	
Main code	Sub code		
H4	00...HL1 01...HL2	Content	Heat roller low temperature detection
		Detail	The temperature does not reach the preset value within the specified time (3 min. in usual modes; 5 min. in curl correction mode.) after the power relay is turned on.
		Cause	Thermister defective Heater lamp defective Control PWB defective Thermostat defective AC power supply defective Interlock switch defective
		Check and remedy	Check heater lamp for blinking with SIM5-2. If lamp blinks properly: Check thermister and its harness. Check thermister input circuit of control PWB. If lamp does not light: Check heater lamp for broken wire and thermostat for operation. Check interlock switch. Check lamp control circuit of AC PWB and control PWB. Clear the trouble with SIM14.
H5	01	Content	3 continuous POD1 not-reaching JAM detection
		Detail	3 continuous POD1 not-reaching JAM detection
		Cause	Check that the fusing JAM is completely cancelled. (Jam paper may be remained.) POD1 sensor trouble or improper harness connection Improper installation of the fusing harness.
	Check and remedy	Check JAM paper in the fusing section. (Winding, etc.) Check POD1 sensor harness. Check the fusing unit installation. Cancel the trouble with SIM 14.	
	02	Content	Fusing thermistor abnormality
		Detail	Fusing thermistor temperature transient abnormality (Paper winding)
Cause		Paper winding to fusing roller Fusing pawl abnormality Fusing unit installation abnormality	
Check and remedy	Check for jam (winding) paper in the fusing section. Check for installation of the fusing unit. Check the fusing pawl. Cancel the trouble with SIM 14.		
L1	00	Content	Scanner feed trouble
		Detail	Scanner feed is not finished within the specified time. (timer is change by magnification)
		Cause	Mirror unit defective Scanner wire disconnected
		Check and remedy	Check scanning operation with SIM1-1.

Trouble code		Description	
Main code	Sub code		
L3	00	Content	Scanner return trouble
		Detail	Scanner return is not finished within the specified time. (timer is change by magnification)
		Cause	Mirror unit defective Scanner wire disconnected
		Check and remedy	Check scanning operation with SIM1-1.
L4	01	Content	Main motor lock detection
		Detail	Motor lock signal is detected for 1.5 seconds during main motor rotation
		Cause	Main motor defective Improper connection of harness between PCU PWB and main motor Control circuit defective
		Check and remedy	Check main motor operation with SIM25-1. Check harness and connector between PCU PWB and main motor.
L6	10	Content	Polygon motor lock detection
		Detail	It was judged that there is no output of polygon motor lock signal of LSU. The lock signal was checked at about 10-second intervals after the polygon motor started rotating. As result, it was judged that the polygon motor failed to operate normally.
		Cause	Disconnected connector to LSU or detached harness inside LSU or broken wire. Polygon motor defective
		Check and remedy	Check polygon motor operation with SIM61-1. Check harness and connector for connection. Replace LSU if needed.
L8	01	Content	No full-wave signal
		Detail	Full-wave signal is not detected.
		Cause	PCU PWB trouble Power unit trouble
		Check and remedy	Check connection of the harness and the connector. Replace the PCU PWB. Replace the power unit.
	02	Content	Full-wave signal with abnormality
		Detail	Full-wave signal frequency abnormality detected. (The detected frequency: 69Hz or above or 42.5Hz or below)
		Cause	Check for disconnection or improper connection of the connector of the PCU PWB and the power PWB harness. PCU PWB trouble Power unit trouble
		Check and remedy	Check connection of the harness and connector. Replace the power unit.

Trouble code		Description	
Main code	Sub code		
U2	00	Content	EEPROM read/write error
		Detail	EEPROM version error. Error in writing into EEPROM.
		Cause	EEPROM defective Uninitialized EEPROM is installed Defective EEPROM access circuit on PCU PWB
		Check and remedy	Check EEPROM for proper set-up To prevent the erasure of counter data and adjustment values, write down the counter data and adjustment values by simulation. (If there is a printer option, execute SIM23-1 and note counter data/adjustment values.) Clear U2 trouble with SIM16. Replace PCU PWB.
	11	Content	Counter check sum error (EEPROM)
		Detail	Checksum error in counter data area
		Cause	EEPROM defective Control circuit hung up due to noise Defective EEPROM access circuit on PCU PWB
		Check and remedy	Check EEPROM for proper set-up To prevent the erasure of counter data and adjustment values, write down the counter data and adjustment values by simulation. (If there is a printer option, execute SIM23-1 and note counter data/adjustment values.) Clear U2 trouble with SIM16. Replace PCU PWB.
U2	12	Content	Adjustment value check sum error (EEPROM)
		Detail	Checksum error in adjustment value data area
		Cause	EEPROM defective Control circuit hung up due to noise. Defective EEPROM access circuit on PCU PWB
		Check and remedy	Check EEPROM for proper set-up To prevent the erasure of counter data and adjustment values, write down the counter data and adjustment values by simulation. (If there is a printer option, execute SIM23-1 and note counter data/adjustment values.) Clear U2 trouble with SIM16. Replace PCU PWB.

Trouble code		Description		
Main code	Sub code			
U4	02	Content	ADU alignment plate operation abnormality	
		Detail	The plate won't move from home position more than 1 second after sending the command to leave home position. Or the plate won't return to home position within 5 seconds after sending the command to return to home position.	
		Cause	Home position sensor defective Alignment shift motor defective Improper connection of harness between PCU PWB, motor and sensor. Control PWB (PCU) defective Alignment plate driving belt or gear damaged or improperly adjusted	
		Check and remedy	Check home position sensor detection with SIM9-2. Check alignment plate operation with SIM9-4. Check connection between PCU, motor and sensor. Remove ADU and check gear and belt for damage.	
	03	Content	ADU rear edge plate operation abnormality	
		Detail	When the plate is not shifted from the home position for 1 sec or more or when returning to the home position is not detected for 5 sec or more.	
		Cause	Home position sensor defect Rear edge plate shift motor defect Control PWB (PCU) defect Rear edge plate operation belt/gear damage or adjustment error	
		Check and remedy	Check the home position sensor operation with SIM 9-21. Check the rear edge plate operation with SIM 9-31. Check between the PCU PWB, the motor, and the sensor. Remove the ADU and check the gear and the belt.	
	U5	00	Content	RADF/SPF/RSPF communication trouble
			Detail	Communication line test error occurs when power is turned on or after the exit of a simulation mode. Improper communication with RADF
Cause			Improper connection or broken wire of connector or harness RADF control PWB defective Control PWB (PCU) defective Malfunction due to noise	
Check and remedy			Check communication line connector and harness. Clear the trouble by turning power supply On/Off.	
01		Content	RADF resist sensor trouble	
		Detail	RADF resist sensor detection trouble	
		Cause	Sensor defective Improper connection of sensor harness inside RADF. RADF control PWB defective	
		Check and remedy	Check resist sensor detection with SIM2-2. Check sensor harness inside RADF.	

Trouble code		Description		
Main code	Sub code			
U5	02	Content	RADF eject/inversion sensor trouble	
		Detail	RADF eject/inversion sensor detection trouble	
		Cause	Defective sensor Improper connection of sensor harness inside RADF. RADF control PWB defective	
		Check and remedy	Check eject/inversion sensor detection with SIM2-2. Check sensor harness inside RADF.	
		03	Content	RADF timing sensor trouble
			Detail	RADF timing sensor detection trouble
	Cause		Defective sensor Improper connection of sensor harness inside RADF RADF control PWB defective	
	06	Content	RSPF post-separation sensor trouble	
		Detail	RSPF post-separation sensor detection trouble (in auto adjustment).	
		Cause	Sensor trouble. Bad connection of sensor harness in RSPF. RSPF control PWB trouble. Erroneous detection by paper dust.	
	07	Content	RSPF read sensor trouble	
		Detail	RSPF read sensor detection trouble (in auto adjustment)	
		Cause	Sensor trouble. Bad connection of sensor harness in RSPF. RSPF control PWB trouble. Erroneous detection by paper dust.	
	08	Content	RSPF SB sensor trouble	
		Detail	RSPF SB sensor detection trouble (in auto adjustment)	
		Cause	Sensor trouble. Bad connection of sensor harness in RSPF. RSPF control PWB trouble. Erroneous detection by paper dust.	
	11	Content	RADF paper feed motor operation abnormality	
		Detail	Paper feed motor driving error	
Cause		Motor lock Improper motor speed Overcurrent to motor RADF control PWB defective		
Check and remedy		Check paper feed motor operation with SIM2-3,4.		

Trouble code		Description	
Main code	Sub code		
U5	16	Content	RSPF fan motor operation abnormality
		Detail	An abnormality is detected by the input of RSPF fan motor alarm signal.
		Cause	Motor lock. RSPF control PWB trouble. Bad connection of RSPF motor harness.
		Check and remedy	Check the fan motor operation with SIM2-2.
U6	00	Content	Desk communication trouble
		Detail	Failed communication with desk Communication line test error occurs when power is turned on or after the exit of a simulation mode.
		Cause	Improper connection or broken wire of connector or harness Desk control PWB defective Control PWB (PCU) defective Malfunction due to noise.
		Check and remedy	Clear the trouble by turning the power supply On/Off. Check communication line connector and harness.
	01 – 03	Content	Desk 1, 2, 3 CS lift-up trouble
		Detail	Desk cassette lift-up trouble (1st - 3rd cassettes).
		Cause	Defective sensor RADF control PWB defective Broken gear Lift-up motor defective
		Check and remedy	Check lift-up sensor detection with SIM4-2. Check lift-up motor with SIM4-3.
	08	Content	Desk 24-V power abnormality
		Detail	No supply of DC24V to desk
		Cause	Improper connection or broken wire of connector or harness Desk control PWB defective Power supply unit defective
		Check and remedy	Check power supply line connector and harness. Check 24-V voltage on power supply unit and desk control PWB.
09	Content	LCC lift motor trouble	
	Detail	LCC lift motor trouble	
	Cause	Sensor trouble LCC control PWB trouble Gear breakage Lift motor trouble	
	Check and remedy	Check the sensor detection with SIM 4-2. Check the lift motor operation with SIM 4-3.	
10	Content	Desk transport motor trouble	
	Detail	Desk transport motor operation trouble	
	Cause	Motor lock Improper motor speed Overcurrent to motor RADF control PWB defective	
	Check and remedy	Check transport motor operation with SIM4-6.	

Trouble code		Description	
Main code	Sub code		
U6	20	Content	LCC communication trouble
		Detail	LCC communication trouble Error when power is turned on or in communication line test after exiting SIM.
		Cause	Connector harness improper connection or disconnection LCC control PWB trouble Control PWB (PCU) trouble Malfunction by noise
		Check and remedy	Canceled by turning on the power. Check the connector and harness of the communication line.
	21	Content	LCC transport motor trouble
		Detail	LCC transport motor operation trouble
		Cause	Motor lock Motor rpm abnormality Motor overcurrent LCC control PWB trouble
		Check and remedy	Check the transport motor operation with SIM 4-3.
	22	Content	LCC 24V power abnormality
		Detail	DC24V not supplied to LCC
		Cause	Connector harness improper connection or disconnection LCC control PWB trouble Power unit trouble
		Check and remedy	Check the connector and harness of power line. Check 24V power in the power unit and the LCC control PWB.
50	Content	Non-support trouble in automatic detection of option connection (Desk unit)	
	Detail	In automatic detection of option connection, a non-support desk unit is detected.	
	Cause	A non-support desk unit is connected to the copier.	
	Check and remedy	Check the desk unit.	
51	Content	Non-support trouble in automatic detection of option connection (LCC unit)	
	Detail	In automatic detection of option connection, a non-support LCC unit is detected.	
	Cause	A non-support LCC unit is connected to the copier.	
	Check and remedy	Check the LCC unit.	
U7	00	Content	RIC communication trouble
		Detail	Communication error with RIC Error in communication line test after turning on the power or exiting from SIM.
		Cause	Improper connection or disconnection of connector and harness RIC control PWB trouble Control PWB (ICU) trouble Malfunction caused by noises
		Check and remedy	Turn off/on the power to cancel the trouble.

Trouble code		Description		
Main code	Sub code			
U9	00	Content	Operation control communication trouble (ICU detection)	
		Detail	Communication setup error, framing/parity/protocol error	
		Cause	Slave unit PWB connector improper connection Slave unit PWB – ICU PWB harness trouble Connector pin breakage of the motor PWB of the slave unit PWB Slave unit ROM trouble. no ROM, ROM reverse insertion, ROM pin breakage	
		Check and remedy	Connect the connector of the slave unit PWB and the ICU PWB. Check the connection and the harness. Check the grounding of the copier. Check the ROM of the slave unit PWB.	
		90	Content	Operation control communication trouble (OPE detection)
		Detail	Communication setup error/framing/parity/protocol error	
		Cause	Slave unit PWB connector improper connection Slave unit PWB – ICU PWB harness trouble Slave unit PWB mother board connector pin breakage	
		Check and remedy	Check the slave unit PWB and the ICU PWB connector connection. Check the copier earth.	
	EE	EL	Content	Auto developing adjustment trouble (overtoner)
			Detail	A sample data is less than 0 when auto developing adjustment is executed.
Cause			Toner density sensor defective Charging voltage or developing voltage improper. Toner density improper Developing unit defective PCU PWB defective	
Check and remedy			Make auto developing adjustment with SIM25-2.	
EU		Content	Auto developing adjustment trouble (undertoner)	
		Detail	A sample data is less than 99 when auto developing adjustment is executed.	
		Cause	Toner density sensor defective Charging voltage or developing voltage improper Toner density improper Unit defective PCU PWB defective	
	Check and remedy	Make auto developing adjustment with SIM25-2.		

Trouble code		Description	
Main code	Sub code		
FC	00	Content	ASK/IrDA modulation LSI reset error
		Detail	Though the RESET signal pulse is sent to the ASK/IrDA modulation LSI, the power signal is not turned ON.
		Cause	1) ICU main PWB defect 2) ASK/IrDA modulation LSI/Clock oscillator defect
		Check and remedy	Perform the self diag with SIM 68-01. Replace the ICU main PWB.
	01	Content	ASK/IrDA switch error
		Detail	Though the ASK/IrDA switch command is sent to the ASK/IrDA modulation LSI, the AI signal is not changed.
		Cause	1) ICU main PWB defect 2) ASK/IrDA modulation LSI/Clock oscillator defect
		Check and remedy	Perform the self diag with SIM 68-01. Replace the ICU main PWB.
PF	00	Content	RIC copy inhibition command reception
		Detail	Copy inhibition command received from RIC (host)
		Cause	Judged by the host.
		Check and remedy	Notice to the host
—		Content	Auditor not ready