[9] TROUBLE CODE LIST

1. List

Trouble code Main code	Trouble code Sub code	Trouble contents	Trouble detection
E1	00	IMC board communication trouble	MCU
	10	IMC board trouble	
	11	IMC ASIC error	
	12	IMC CODEC error	
	13	IMC board flash ROM error	
	14	IMC board Work RAM error	
	15	IMC board Page Memory error	
	16	IMC board image compression store memory error	
	17	IMC board smoothing IC error	
	80	IMC PWB communication trouble (protocol)	
	81	IMC PWB communication trouble (Parity)	
	82	IMC PWB communication trouble (Overrun)	
	84	IMC PWB communication trouble (Framing)	
	88	IMC PWB communication trouble (Time-out)	
E7	02	LSU trouble	
	10	Shading trouble (black correction)	
	11	Shading trouble (white correction)	
	12	Shading trouble	
F1	00	Finisher communication trouble	FIN
	01	Finisher jogger shift trouble	
	06	Finisher shift motor abnormality	
	08	Finisher staple shift motor trouble	
	11	Pusher motor trouble	
	15	Finisher elevator motor trouble	
F2	02	Toner supply failure	
	04	Identification error	
		Model error	
		Type error	
		Destination error	
		Data abnormality	
		Misc error	
F5	02	Copy lamp lighting abnormality	
F6	00	F6-**: MCU-FAX communication trouble	MCU
	10	FAX control PWB trouble	
	80	FAX control PWB communication trouble (Protocol)	
	81	FAX control PWB communication trouble (Parity)	
	82	FAX control PWB communication trouble (Over-run)	
	84	FAX control PWB communication trouble (Framing)	
	88	FAX control PWB communication trouble (Timeout)	
	99	Machine-FAX board language error	

Trouble code Main code	Trouble code Sub code	Trouble contents	Trouble detection
F9	00	F9-**: MCU-PRT communication trouble	MCU
	10	Printer PWB trouble	
	80	Printer PWB communication trouble (Protocol)	
	81	Printer PWB communication trouble (Parity)	
	82	Printer PWB communication trouble (Overrun)	
	84	Printer PWB communication trouble (Framing)	
	88	Printer PWB communication trouble (Timeout)	
	99	Machine-PCL board language error	
H2	00	Thermistor open detection	
H3	00	Heat roller abnormally high temperature	
H4	00	Heat roller abnormally low temperature	
H5	01	5 continuous T10D(T20D) not-reaching JAM	
	02	Fusing thermistor abnormality	
L1	00	Scanner feed trouble	
L3	00	Scanner return trouble	
L4	01	Main motor lock	
	11	Shifter motor trouble	
L6	10	Polygon motor lock trouble	
L8	01	Zero cross detection error	
U2	04	EEPROM communication error	
	11	Counter check sum error	
	12	Adjustment value check sum error	
	20	Machine speed code data error	
	40	CRUM chip communication error	
U7	00	RIC communication trouble	
U9	00	U9-**: MCU-OPE communication trouble	OPE
	80	Operation control PWB communication trouble (Protocol)	
	81	Operation control PWB communication trouble (Parity)	
	82	Operation control PWB communication trouble (Overrun)	
	84	Operation control PWB communication trouble (Framing)	
	88	Operation control PWB communication trouble (Time-out)	
	99	Operation panel language error	
CE	00	The other communication error has occurred.	Network
	01	The print server card (AR-NC3D) is not installed or defective.	Network
	02	The specified mail server or the FTP server is not found.	Network
	03	The specified server does not correspond during image transmission.	Network
	04	The entered account name of the FTP server or the password is invalid.	Network
	05	The entered directory of the FTP server is invalid.	Network
EE	EL	Developer adjustment trouble (Over-toner abnormality)	
	EU	Developer adjustment trouble (Under-toner abnormality)	
PF	00	RIC copy inhibit signal received	

2. Self diagnostics

Trouble code Main code	Sub code	Details of trouble	
E1	00	Content	E1-**: MCU-IMC communication trouble
		Details	Communication establishment error/framing/parity/protocol error
		Cause	IMC PWB connector disconnection IMC PWB MCU PWB harness failure Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the IMC PWB and MCU PWB. Check the grounding of the copier. Check the ROM of the IMC PWB.
	10	Content	IMC PWB trouble
		Details	Communication trouble between MCU and IMC PWB
		Cause	IMC PWB connector disconnection IMC PWB MCU PWB harness failure Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the IMC PWB and MCU PWB. Check the grounding of the copier. Check the ROM of the IMC PWB.
	11	Content	IMC board ASIC error
		Details	ASIC abnormality on IMC board
		Cause	IMC board abnormality
		Check and remedy	Replace the IMC PWB.
	12	Content	IMC board CODEC IC error
		Details	CODEC IC (JBIG chip) abnormality on IMC board
		Cause	IMC board abnormality
		Check and remedy	Replace the IMC PWB.
		Remarks	JBIG IC abnormality
	13	Content	IMC board flash ROM error
		Details	Flash ROM abnormality on IMC board
		Cause	IMC board abnormality
		Check and remedy	Replace the IMC PWB. "When the program download is abnormally terminated, a error may occur. In this case, download the program again."
		Remarks	Program ROM abnormality
	14	Content	IMC board Work RAM error
		Details	IMC extended compression memory module installation error IMC extended compression memory access error
		Cause	IMC expanded memory module installation trouble IMC expanded memory module trouble IMC expanded memory contact trouble IMC board abnormality
		Check and remedy	Check installation of the expanded memory module. (Spec: Added to Slot 1.) Replace the expanded memory module. Replace the IMC PWB.
		Remarks	Extend memory abnormality for compressed image store (DIMM module)

Trouble code Main code	Sub code	Details of trouble	
E1	15	Content	IMC board Page Memory error
		Details	IMC Page Memory abnormality
		Cause	IMC board abnormality
		Check and remedy	Replace the IMC PWB.
		Remarks	Print Buffer Memory abnormality
	16	Content	IMC board compression image store memory error
		Details	IMC standard compression memory access error
		Cause	IMC board abnormality
		Check and remedy	Replace the IMC PWB.
	17	Content	IMC board smoothing IC error
		Details	IMC smoothing IC abnormality
		Cause	IMC board abnormality
		Check and remedy	Replace the IMC PWB.
	80	Content	IMC PWB communication trouble (protocol)
		Details	Communication trouble between MCU and IMC PWB (Protocol error)
		Cause	IMC PWB connector disconnection IMC PWB MCU PWB harness failure Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the IMC PWB and MCU PWB. Check the grounding of the copier. Check the ROM of the IMC PWB.
	81	Content	IMC PWB communication trouble (Parity)
		Details	Communication trouble between MCU and printer IMC (Parity error)
		Cause	IMC PWB connector disconnection IMC PWB MCU PWB harness failure Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the IMC PWB and MCU PWB. Check the grounding of the copier. Check the ROM of the IMC PWB.
	82	Content	IMC PWB communication trouble (Overrun)
		Details	Communication trouble between MCU and IMC PWB (Overrun error)
		Cause	IMC PWB connector disconnection IMC PWB MCU PWB harness failure Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the IMC PWB and MCU PWB. Check the grounding of the copier. Check the ROM of the IMC PWB.

Trouble code		Details of trouble	
Main code	Sub code		
E1	84	Content	IMC PWB communication trouble (Framing)
		Details	Communication trouble between MCU and IMC PWB (Framing error)
		Cause	IMC PWB connector disconnection IMC PWB MCU PWB harness failure Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the IMC PWB and MCU PWB. Check the grounding of the copier. Check the ROM of the IMC PWB.
	88	Content	IMC PWB communication trouble (Time-out)
		Details	Communication trouble between MCU and IMC PWB (Time-out error)
		Cause	IMC PWB connector disconnection IMC PWB MCU PWB harness failure Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the IMC PWB and MCU PWB. Check the grounding of the copier. Check the ROM of the IMC PWB.
E7	02	Content	LSU trouble
		Details	BD signal from LSU is not detected in a constant cycle. (Kept OFF or ON)
		Cause	LSU connector or LSU inside harness trouble or disconnection Polygon motor rotation abnormality Laser does not illuminate. MCU PWB failure
		Check and remedy	Check for disconnection of the LSU connector. Check the LSU operation with SIM 61-1. Check that the polygon motor rotates normally. Check laser LED lighting. LSU replacement Replace the MCU PWB.
	10	Content	Shading trouble (black correction)
		Details	CCD black reference plate scan level abnormality when the copy lamp turns off.
		Cause	Flat cable installation failure to CCD unit CCD unit error
		Check and remedy	Check flat cable installation to the CCD unit. Check CCD unit.
	11	Content	Shading trouble (white correction)
		Details	Improper CCD white reference plate reading level for copy lamp lighting
		Cause	Flat cable installation failure to CCD unit "Dirt on the mirror, lens, and reference white plate" Copy lamp operation error CCD unit abnormality MCU PWB abnormality (Occurred in the SPF scan position.)
		Check and remedy	"Clean the mirror, the lens, and the reference white plate." Check the copy lamp light quantity and its operation. (SIM 5-3) Check CCD unit. Check MCU PWB.

Trouble code		Details of trouble	
Main code	Sub code		
E7	12	Content	Shading trouble
		Details	White correction is not completed in the specified number of times.
		Cause	Flat cable installation failure to CCD unit "Dirt on the mirror, lens, and reference white plate" Copy lamp lighting trouble CCD unit abnormality MCU PWB abnormality
		Check and remedy	"Clean the mirror, the lens, and the reference white plate." Check the copy lamp light quantity and its operation. (SIM 5-3) Check CCD unit. Check MCU PWB.
F1	00	Content	Finisher communication trouble
		Details	Communication line test error occurs when power is turned on or after the exit of a simulation mode. Error in Finisher communication
		Cause	Connection trouble or disconnection of the connector and harness between the body and the finisher. Finisher control PWB trouble Control PWB failure Malfunction by noises
		Check and remedy	Turn off/of the power to cancel the trouble. Check connector/harness of communication line Replace the finisher control PWB.
	01	Content	Side guide plated home position error
		Details	The side guide plate cannot return to the home position.
		Cause	Side guide plate drive motor abnormality Side guide plate home position sensor abnormality
		Check and remedy	Use SIM3-3-1 to check the side guide plate motor operation.
	06	Content	Offset motor trouble
		Details	When the offset motor of the finisher is driven it does not reach the specified position.
		Cause	Offset motor abnormality Offset motor origin sensor abnormality Finisher PWB abnormality
		Check and remedy	Use SIM 3-3-6 to check the offset motor operation.
	08	Content	Staple motor error
		Details	The staple motor cannot return to the home position.
		Cause	Staple motor abnormality Staple motor home position sensor abnormality Staple unit abnormality
		Check and remedy	Use SIM 3-3-7 to check the staple motor operation.

Trouble code Main code	Sub code	Details of trouble	
F1	11	Content	Rear edge plate home position error
		Details	The rear edge plate cannot return to the home position.
		Cause	Rear edge plate drive motor abnormality Side guide plate home position sensor abnormality Finisher PWB abnormality
		Check and remedy	Use SIM 3-3-2 to check the rear edge plate motor operation.
	15	Content	Finisher lift-up motor trouble
		Details	The finisher lift-up motor does not reach the specified position.
		Cause	Lift-up motor abnormality Lift-up motor upper limit sensor abnormality Finisher PWB abnormality
		Check and remedy	Use SIM 3-3-5 to check the lift-up motor operation.
F2	02	Content	Toner supply failure
		Details	The value judged from the actual toner supply hysteresis differs greatly from the toner sensor value.
		Cause	Developing unit trouble Toner supply abnormality caused by installation of unpacked toner cartridge
		Check and remedy	Replace the developing unit Use SIM 25-1 to perform DV stirring.
	04	Content	Identification error Model error Type error Destination error Data abnormality Misc error
		Details	Identification error When the CRUM trademark differs. When the CRUM company code differs. Model error When the boot program model code does not match with the CRUM model information. Type error When the CRUM type is other than [Genuine/Conversion/Production rotation]. Destination error The destination of the body differs from that of the CRUM. Data abnormality The initial check information includes an erroneous value. When the max. toner supply time is 00: When the print hard stop is 00:
		Cause	CRUM chip failure Erroneous developing unit
		Check and remedy	Replace the CRUM chip. Replace the developing unit

Trouble code Main code	Sub code	Details of trouble	
F5	02	Content	Copy lamp lighting abnormality
		Details	The copy lamp does not light up.
		Cause	Copy lamp error Copy lamp harness abnormality CCD PWB harness abnormality
		Check and remedy	Check the copy lamp (SIM 5-3) When the lamp lights: Check the harnesses and connectors between the CCD unit and the MCU PWB. When the lamp does not light: Check the harness and connector between the copy lamp and the MCU PWB. Replace the copy lamp unit. Replace the MCU PWB.
		Remarks	Copy lamp disconnection Cable is not attached.
F6	00	Content	F6-**: MCU-FAX communication trouble
		Details	Communication establishment error/ framing/parity/protocol error
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	10	Content	FAX control PWB trouble
		Details	Communication trouble between MCU and FAX control PWB
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	80	Content	FAX control PWB communication trouble (Protocol)
		Details	Communication trouble between MCU and FAX control PWB (Protocol error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.

Trouble code		Details of trouble	
Main code	Sub code		
F6	81	Content	FAX control PWB communication trouble (Parity)
		Details	Communication trouble between MCU and FAX control PWB (Parity error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	82	Content	FAX control PWB communication trouble (Over-run)
		Details	Communication trouble between MCU and FAX control PWB (Overrun error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	84	Content	FAX control PWB communication trouble (Framing)
		Details	Communication trouble between MCU and FAX control PWB (Framing error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	88	Content	FAX control PWB communication trouble (Timeout)
		Details	Communication trouble between MCU and FAX control PWB (Timeout error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	99	Content	Machine-FAX board language error
		Details	The machine language setup does not coincide with the FAX board language setup.
		Cause	FAX board correction error SIM setup error
		Check and remedy	Check the firmware of the FAX board and the combination of the panel screen data, and download the correct version, if necessary. Check the machine language information. (Machine language setup: SIM 26-22)

Trouble code		Details of trouble	
Main code	Sub code		
F9	00	Content	F9-**: MCU-PRT communication trouble
		Details	Communication establishment error/ framing/parity/protocol error
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance
		Check and remedy	Check the connectors and harness of the printer PWB and MCU PWB. Check the grounding of the copier. Check ROM on printer PWB.
	10	Content	Printer PWB trouble
		Details	Communication trouble between MCU and printer PWB
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance
		Check and remedy	Check the connectors and harness of the printer PWB and MCU PWB. Check the grounding of the copier. Check ROM on printer PWB.
	80	Content	Printer PWB communication trouble (Protocol)
		Details	Communication trouble between MCU and printer PWB (Protocol error)
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance
		Check and remedy	Check the connectors and harness of the printer PWB and MCU PWB. Check the grounding of the copier. Check ROM on printer PWB.
	81	Content	Printer PWB communication trouble (Parity)
		Details	Communication trouble between MCU and printer PWB (Parity error)
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance
		Check and remedy	Check the connectors and harness of the printer PWB and MCU PWB. Check the grounding of the copier. Check ROM on printer PWB.

Trouble code Main code	Sub code	Details of trouble	
F9	82	Content	Printer PWB communication trouble (Overrun)
		Details	Communication trouble between MCU and printer PWB (Overrun error)
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance
		Check and remedy	Check the connectors and harness of the printer PWB and MCU PWB. Check the grounding of the copier. Check ROM on printer PWB.
	84	Content	Printer PWB communication trouble (Framing)
		Details	Communication trouble between MCU and printer PWB (Framing error)
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance
		Check and remedy	Check the connectors and harness of the printer PWB and MCU PWB. Check the grounding of the copier. Check ROM on printer PWB.
	88	Content	Printer PWB communication trouble (Timeout)
		Details	Communication trouble between MCU and printer PWB (Timeout error)
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance
		Check and remedy	Check the connectors and harness of the printer PWB and MCU PWB. Check the grounding of the copier. Check ROM on printer PWB.
	99	Content	Machine-PCL board language error
		Details	The machine language setup does not coincide with the PCL board language setup.
		Cause	PCL board connection error SIM setup error
		Check and remedy	Check the firmware of the PCL board and the combination of the panel screen data, and download the correct version, if necessary. Check the machine language information. (Machine language setup: SIM 26-22)
H2	00	Content	Thermistor open detection
		Details	Thermistor open detection Fusing unit not installed
		Cause	Thermistor defect Control PWB failure Fusing section connector contact failure Fusing unit not installed
		Check and remedy	Check the harness and the connector of the thermistor and the MCU. Clear the display of self-diagnostics with SIM 14.
		Remarks	Thermistor open

Trouble code Main code	Sub code	Details of trouble	
H3	00	Content	Heat roller abnormally high temperature
		Details	The fusing temperature is over 220°C.
		Cause	Thermistor defect Control PWB failure Fusing section connector contact failure
		Check and remedy	Check the heater lamp blinking with SIM 5-2. When the lamp blinks normally: Check the thermistor and the harness. Check the MCU PWB thermistor input circuit. If lamp lights and stays lit: Check the power PWB and the MCU PWB lamp control circuit. Clear the display of self-diagnostics with SIM 14.
H4	00	Content	Heat roller abnormally low temperature
		Details	The setup temperature (about 90°C is not reached within the specified time (about 35sec) from turning on the power ON SW. (When the temperature falls below 120°C in the standby mode.)
		Cause	Thermistor defect Heater lamp failure Thermostat failure Control PWB failure
		Check and remedy	Check the heater lamp blinking with SIM 5-2. When the lamp blinks normally: Check the thermistor and the harness. Check the MCU PWB thermistor input circuit. When the lamp does not light: Check for disconnection of the heater lamp and thermostat. Check the interlock switch. Check the power PWB and the MCU PWB lamp control circuit. Clear the display of self-diagnostics with SIM 14.
H5	01	Content	5 continuous T10D(T20D) not-reaching JAM
		Details	T10D(T20D) not-reaching JAM was detected 5 continuous times.
		Cause	The fusing JAM is not completely removed. (Jam paper remains.) T10D or T20D sensor breakdown or harness connection trouble Fusing unit installation failure
		Check and remedy	Check for jam paper in the fusing section. (paper winding, etc.) Check fusing unit installation Clear the trouble with SIM 14.
	02	Content	Fusing thermistor abnormality detect
		Details	Fusing thermistor temperature transient abnormality (Paper winding)
		Cause	Paper wound around the fusing roller. Fusing pawl abnormality Fusing unit installation failure
		Check and remedy	Check for jam paper in the fusing section. (paper winding, etc.) Check installation of the fusing unit. Check the fusing pawl. Clear the trouble with SIM 14.

Trouble code Main code	Sub code	Details of trouble	
L1	00	Content	Scanner feed trouble
		Details	Scanner feed is not completed within the specified time.
		Cause	Mirror unit defect Scanner wire disconnection Origin detection sensor error Mirror motor harness abnormality
		Check and remedy	Check the scanning operation with SIM 1-1. Mirror base feed trouble Check for disconnection of the scanner wire. Check the harness and connector between the mirror motor and the MCU PWB. Replace the mirror unit. Replace the MCU PWB. When the mirror feeds: Check the mirror home position sensor with SiM 1-2.
L3	00	Content	Scanner return trouble
		Details	Scanner return is not completed within the specified time. "When OC copying with the mirror at the home position, the mirror is not in the home position. "
		Cause	Mirror unit defect The scanner wire is disconnected. Origin detection sensor error Mirror motor harness abnormality
		Check and remedy	Check the scanning operation with SIM 1-1. Mirror base return trouble Check for disconnection of the scanner wire. Check the harness and connector between the mirror motor and the MCU PWB. Replace the mirror unit. Replace the MCU PWB. When the mirror feeds: Check the mirror home position sensor with SiM 1-2.
L4	01	Content	Main motor lock
		Details	The main motor does not rotate. The motor lock signal is detected for 1sec or more after the main motor rotates. The motor lock signal is detected for 1sec during rotation of the main motor.
		Cause	Main motor defect Main motor connection harness trouble or disconnection MCU PWB failure
		Check and remedy	Check the main motor operation with SIM 25-1. Check connection of the main motor harness and connector. Replace the main motor. Replace the MCU PWB.

Trouble code Main code	Sub code	Details of trouble	
L4	11	Content	Shifter motor trouble
		Details	The shifter home position detection signal is not detected when the shifter is operating.
		Cause	Shifter motor trouble or harness connection trouble and disconnection Shifter home position sensor trouble
		Check and remedy	Check the shift motor operation with SIM 3-11. Check connection of the shifter motor harness/connector. Replace the shifter motor. Replace the MCU PWB.
L6	10	Content	Polygon motor lock trouble
		Details	The polygon motor does not rotate. The motor lock signal is detected for 6sec or more after the polygon motor rotates. The motor lock signal is detected for 1sec during rotation of the polygon motor.
		Cause	Polygon motor unit failure Polygon motor connection harness trouble or disconnection MCU PWB failure
		Check and remedy	Check the polygon motor operation with SIM 61-1. Check connector/harness of polygon motor Replace the polygon motor. Replace the MCU PWB.
L8	01	Content	Zero cross detection error
		Details	The zero cross signal is not detected.
		Cause	Power failure MCU PWB abnormality
		Check and remedy	Check connection of the harness and connector. Replace the MCU PWB. Power unit replacement
U2	04	Content	EEPROM communication error
		Details	MCU PWB EEPROM access circuit failure
		Cause	EEPROM defective ICU PWB EEPROM access circuit failure
		Check and remedy	Check that the EEPROM is properly set. Clear trouble with SIM 16. Replace the MCU PWB.
		Remarks	EEPROM abnormality
	11	Content	Counter check sum error
		Details	Counter check sum value stored in the EEPROM is abnormal.
		Cause	EEPROM defective ICU PWB EEPROM access circuit failure
		Check and remedy	Check that the EEPROM is properly set. Clear trouble with SIM 16. Replace the MCU PWB.
		Remarks	Checksum error in counter data area
	12	Content	Adjustment value check sum error
		Details	Adjustment value check sum error (EEPROM)
		Cause	EEPROM defective ICU PWB EEPROM access circuit failure
		Check and remedy	Check that the EEPROM is properly set. Clear trouble with SIM 16. Replace the MCU PWB.
		Remarks	Checksum error in adjustment value data area

Trouble code		Details of trouble	
Main code	Sub code		
U2	20	Content	Machine speed code data error
		Details	The machine information is not identical to the model code speed information.
		Cause	EEPROM defective SIM operation error
		Check and remedy	Check that the machine set with SIM 26-57 is identical to the model information.
		Remarks	When the boot program speed code does not match with the body model information.
	40	Content	CRUM chip communication error
		Details	Error in MCU-CRUM chip communication
		Cause	CRUM chip failure Developing unit contact trouble MCU PWB failure
		Check and remedy	Replace the CRUM chip. Check installation of the developing unit. Clear the trouble with SIM 16. Replace the MCU PWB.
		Remarks	CRUM communication error
U7	00	Content	RIC communication trouble
		Details	Error in communication with RIC Error in communication test after turning on the power or canceling SIM.
		Cause	Connector harness contact trouble or disconnection RIC control PWB trouble MCU PWB failure Malfunction by noises
		Check and remedy	check the communication cable connectors from the RIC box to the main body.
U9	00	Content	U9-**: MCU-OPE communication trouble
		Details	Communication establishment error/ framing/parity/protocol error
		Cause	Operation control PWB connector disconnection Operation control PWB MCU PWB harness failure
		Check and remedy	Check the connectors and harness of the operation control PWB and MCU PWB. Check the grounding of the copier. Check ROM on the operation control PWB.
	80	Content	Operation control PWB communication trouble (Protocol)
		Details	Communication trouble between MCU and the operation control PWB (Protocol error)
		Cause	Operation control PWB connector disconnection Operation control PWB MCU PWB harness failure
		Check and remedy	Check the connectors and harness of the operation control PWB and MCU PWB. Check the grounding of the copier.

Trouble code		Details of trouble	
Main code	Sub code		
U9	81	Content	Operation control PWB communication trouble (Parity)
		Details	Communication trouble between MCU and the operation control PWB (Parity error)
		Cause	Operation control PWB connector disconnection Operation control PWB MCU PWB harness failure
		Check and remedy	Check the connectors and harness of the operation control PWB and MCU PWB. Check the grounding of the copier.
	82	Content	Operation control PWB communication trouble (Overrun)
		Details	Communication trouble between MCU and the operation control PWB (Overrun error)
		Cause	Operation control PWB connector disconnection Operation control PWB MCU PWB harness failure
		Check and remedy	Check the connectors and harness of the operation control PWB and MCU PWB. Check the grounding of the copier.
	84	Content	Operation control PWB communication trouble (Framing)
		Details	Communication trouble between MCU and the operation control PWB (Framing error)
		Cause	Operation control PWB connector disconnection Operation control PWB MCU PWB harness failure
		Check and remedy	Check the connectors and harness of the operation control PWB and MCU PWB. Check the grounding of the copier.
	88	Content	Operation control PWB communication trouble (Time-out)
		Details	Communication trouble between MCU and the operation PWB (Time-out error)
		Cause	Operation control PWB connector disconnection Operation control PWB MCU PWB harness failure
		Check and remedy	Check the connectors and harness of the operation control PWB and MCU PWB. Check the grounding of the copier.
	99	Content	Operation panel destination error
		Details	An error occurred in checking the operation panel and the destination of the body.
		Cause	Erroneous connection the operation panel unit SIM setup error
		Check and remedy	Check the destination information of the operation panel unit and the MCU. (Use SIM 26-22 for the destination of the body.)
CE	00	Content	The other communication error has occurred.
		Detail	Communication error
		Cause	Network Cable connection failure
		Check and remedy	1) Check that the Network Cable is properly inserted.

| Trouble code | | Details of trouble | |
Main code	Sub code		
CE	01	Content	The print server card (AR-NC3D) is not installed or defective.
		Detail	NC3D connection failure
		Cause	NC-3D is not installed to the AR-PB2A board. NC-3D control PWB trouble
		Check and remedy	1) Check that the NC-3D is installed to the AR-PB2A board. 2) Output the NIC Config. Page to check the NIC version. 3) Replace the NIC.
	02	Content	The specified mail server or the FTP server is not found.
		Detail	The specified mail server or the FTP server is not found.
		Cause	Network Cable connection failure Network setup failure SMTP server/FTP server/NST trouble
		Check and remedy	1) Check that the Network Cable is inserted properly. 2) Check that the connected network supports TCP/IP protocol. 3) Check from the Web Page that the Primary/Secondary E-mail Server Address or the Destination FTP server/ Desktop PC address are properly set. 4) If the above address is described with Hostname, check that the DNS server is properly set. 5) Check that the SMTP server/FTP server/NST causes a trouble or not.
	03	Content	The specified server does not correspond during image transmission.
		Detail	The specified server does not correspond during image transmission.
		Cause	Network Cable connection failure
			SMTP server/FTP server/NST trouble
		Check and remedy	1) Check that the Network Cable is inserted properly. 2) Check that the SMTP server/FTP server/NST causes a trouble or not.
	04	Content	The entered account name of the FTP server or the password is invalid.
		Detail	The entered account name of the FTP server or the password is invalid.
		Cause	Network Cable connection failure
			The account name of the FTP server recorded as the destination or the password for the account name is erroneous.
		Check and remedy	1) Check that the Network Cable is inserted properly. 2) Check that the account name of the FTP server recorded as the destination and the password for the account name are proper.

| Trouble code | | Details of trouble | |
Main code	Sub code		
CE	05	Content	The entered directory of the FTP server is invalid.
		Detail	The entered directory of the FTP server is invalid.
		Cause	Network Cable connection failure Check that the directory name exists in the FTP server recorded as the destination.
		Check and remedy	1) Check that the Network Cable is inserted properly. 2) Check that the directory name exists in the FTP server recorded as the destination.
EE	EL	Content	Developer adjustment trouble (Over-toner abnormality)
		Details	An abnormality occurred in execution of automatic developer adjustment. Sample data over-toner was detected.
		Cause	Toner concentration sensor abnormality Toner concentration trouble Developing unit trouble MCU PWB failure
		Check and remedy	Use SIM 25-2 to perform the auto developer adjustment.
	EU	Content	Developer adjustment trouble (Under-toner abnormality)
		Details	An abnormality occurred in execution of automatic developer adjustment. Sample data under-toner was detected.
		Cause	Toner concentration sensor abnormality Toner concentration trouble Developing unit trouble MCU PWB failure
		Check and remedy	Use SIM 25-2 to perform the auto developer adjustment.
PF	00	Content	RIC copy inhibit signal received
		Details	The copy inhibit command from RIC is received.
		Cause	Judged by the host.
		Check and remedy	Information the host.