

SHARP TROUBLE & ERROR CODES

AR-162, AR-163, AR-201, AR-206, AR-207, AR-F201

[9] TROUBLE CODE LIST

1. Trouble code list

Trouble code	Trouble content	
E1	00	E-Sort board communication trouble
	10	E-Sort board trouble
	11	E-Sort ASIC error
	12	E-Sort CODEC error
	13	E-Sort flash ROM error
	14	E-Sort RAM error
	15	E-Sort page memory error
	16	E-Sort SIMM error
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	80	E-Sort board communication trouble (Protocol)
	81	E-Sort board communication trouble (Parity)
	82	E-Sort board communication trouble (Overrun)
	84	E-Sort board communication trouble (Framing)
	88	E-Sort board communication trouble (Time-out)
E7	03	LSU trouble
	04	CCD white level trouble
	05	CCD black level trouble
F1	06	Shifter motor trouble
F2	04	CRUM data read trouble
F5	02	Copy lamp error
F6	00	FAX board communication trouble
	10	FAX board trouble
	80	FAX board communication trouble (Protocol)
	81	FAX board communication trouble (Parity)
	82	FAX board communication trouble (Overrun)
	84	FAX board communication trouble (Framing)
	88	FAX board communication trouble (Time-out)
F9	00	Printer PWB communication trouble
	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 (Time-out)
H2	00	Thermistor open detection
H3	00	Heat roller abnormally high temperature
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L1	00	Mirror base feed trouble
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L4	01	Main motor lock
	10	Job separator motor abnormality
L6	10	Polygon motor lock
L8	01	Zero cross pulse (FW) trouble
U2	04	EEPROM serial communication error
	11	Counter check sum error
	12	Adjustment value check sum error (EEPROM)
	40	CRUM communication error
U3	29	Mirror base home position error

U9	00	Operation control PWB communication trouble
	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)
U95		Operation control PWB connection error
U99		Operation control PWB connection error

2. Details of trouble codes

Main code	Sub code		Detail of trouble
E1	00	Content	Communication trouble between MCU and E-Sort.
		Detail	Communication setup error, framing, parity, protocol error
		Cause	E-Sort PWB connector disconnection E-Sort PWB MCU PWB harness failure E-Sort Motherboard connector pin breakage. E-Sort PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the E-Sort PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the E-Sort PWB.
	10	Content	E-Sort PWB trouble
		Detail	Communication trouble between MCU and E-Sort
		Cause	E-Sort PWB connector disconnection E-Sort PWB MCU PWB harness failure E-Sort Motherboard connector pin breakage. E-Sort PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the E-Sort PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the E-Sort PWB.
	11	Content	E-Sort PWB ASIC error
Detail		E-Sort PWB ASIC abnormality	
Cause		An ASIC abnormality is detected in the E-Sort PWB. Control circuit hung up due to noises ASIC peripheral circuit error	

Main code	Sub code		Detail of trouble
E1	11	Check and remedy	Replace the E-Sort PWB. Check grounding of the machine.
		12	Content
		Detail	E-Sort PWB CODEC error
		Cause	A CODEC error is detected in the E-Sort PWB. Control circuit hung up due to noises CODEC peripheral circuit error
		Check and remedy	Replace the E-Sort PWB. Check grounding of the machine.
	13	Content	E-Sort PWB Flash ROM error
		Detail	E-Sort PWB Flash ROM abnormality
		Cause	A Flash ROM abnormality is detected in the E-Sort PWB. Control circuit hung up due to noises Flash ROM peripheral circuit error
		Check and remedy	Replace the E-Sort PWB. Rewrite the flash ROM data. Check grounding of the machine.
	14	Content	E-Sort PWB Work RAM error
		Detail	E-Sort PWB Work RAM abnormality
		Cause	A Work RAM abnormality is detected in the E-Sort PWB. Control circuit hung up due to noises RAM peripheral circuit error
		Check and remedy	Replace the E-Sort PWB. Check grounding of the machine.
	15	Content	E-Sort PWB Page Memory error
		Detail	E-Sort PWB Page Memory abnormality
		Cause	A Page Memory abnormality is detected in the E-Sort PWB. Control circuit hung up due to noises Page Memory peripheral circuit error
		Check and remedy	Replace the E-Sort PWB. Check grounding of the machine.
	16	Content	E-Sort PWB SIMM error
		Detail	E-Sort PWB SIMM abnormality
		Cause	A SIMM abnormality is detected in the E-Sort PWB. Control circuit hung up due to noises SIMM peripheral circuit error
		Check and remedy	Replace the E-Sort PWB. Replace the SIMM. Check grounding of the machine.
17	Content	E-Sort PWB image rotating RAM error	
	Detail	E-Sort PWB image rotating RAM abnormality	

Main code	Sub code		Detail of trouble
E1	17	Cause	An image rotating RAM abnormality is detected in the E-Sort PWB. Control circuit hung up due to noises Image rotating RAM peripheral circuit error
		Check and remedy	Replace the E-Sort PWB. Check grounding of the machine.
	80	Content	E-Sort PWB communication trouble (protocol)
		Detail	Communication trouble between MCU and printer PWB (Protocol error)
		Cause	E-Sort PWB connector disconnection E-Sort PWB MCU PWB harness failure E-Sort Motherboard connector pin breakage. E-Sort PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the E-Sort PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the E-Sort PWB.
	81	Content	E-Sort PWB communication trouble (Parity)
		Detail	Communication trouble between MCU and printer E-Sort (Parity error)
		Cause	E-Sort PWB connector disconnection E-Sort PWB MCU PWB harness failure E-Sort Motherboard connector pin breakage. E-Sort PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the E-Sort PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the E-Sort PWB.
	82	Content	E-Sort PWB communication trouble (Overrun)
		Detail	Communication trouble between MCU and E-Sort PWB (Overrun error)
		Cause	E-Sort PWB connector disconnection E-Sort PWB MCU PWB harness failure E-Sort Motherboard connector pin breakage. E-Sort PWB ROM defect, data failure

Main code	Sub code		Detail of trouble
E1	82	Check and remedy	Check the connectors and harness of the E-Sort PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the E-Sort PWB.
		84	Content
		Detail	Communication trouble between MCU and E-Sort PWB (Framing error)
		Cause	E-Sort PWB connector disconnection E-Sort PWB MCU PWB harness failure E-Sort Motherboard connector pin breakage. E-Sort PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the E-Sort PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the E-Sort PWB.
	88	Content	E-Sort PWB communication trouble (Time-out)
		Detail	Communication trouble between MCU and E-Sort PWB (Time-out error)
		Cause	E-Sort PWB connector disconnection E-Sort PWB and MCU PWB harness failure E-Sort Motherboard connector pin breakage. E-Sort PWB ROM defect, data failure
		Check and remedy	Check the connectors and harness of the E-Sort PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the E-Sort PWB.
	E7	03	Content
Detail			After the polygon motor becomes active, BD signal (HSYNC) from the LSU is not detected at the specified times (41 10 times within 20msec).
Cause			LSU connector disconnection or LSU's inside harness disconnection or breakage Polygon motor rotation abnormality Improper positioning of the laser home position sensor in the LSU. Laser power voltage failure Laser emitting diode abnormality MCU PWB abnormality

Main code	Sub code		Detail of trouble	
E7	03	Check and remedy	Improper connection of the LSU connector Check the polygon motor operation with SIM 25-10. Check printing with SIM64-1. Check laser emission of laser emitting diode. Check the LSU unit. Check the MCU PWB.	
		04	Content	CCD white level trouble
			Detail	CCD white reference level which is read during the copy lamp lighting is abnormal.
			Cause	Flat cable installation failure to CCD unit Dirt on the mirror, lens, and reference white plate Copy lamp lighting failure CCD unit installation failure CCD unit abnormality MCU PWB abnormality
		Check and remedy	Clean the mirror, the lens, and the reference white plate. Check the copy lamp (SIM 5-3) ON. Carriage unit position failure Check the sub scanning direction distortion adjustment (F rail height). CCD unit check MCU PWB check	
	05	Content	CCD black level trouble	
		Detail	CCD black level which is read while the copy lamp is off is abnormal.	
		Cause	Flat cable installation failure CCD unit abnormality MCU PWB abnormality	
		Check and remedy	Check flat cable installation to the CCD unit. CCD unit check MCU PWB check	
	F1	06	Content	Shifter motor trouble
			Details	The home position is not detected within 1 sec after shifter motor drive.
			Cause	The shifter home position sensor is defective. The shifter motor is defective. The shifter motor periphery circuit is defective. The condition of the MCU PWB JP4 is wrong. The assembly of the shifter motor unit is improper.
		Check and remedy	Check the shifter operation by means of SIM3-2 and 3. Check the harnesses and connectors. Check whether the shifter unit is properly assembled. Check whether the condition of the MCU PWB JP4 is correct.	

Main code	Sub code		Detail of trouble
F2	04	Content	CRUM data read trouble
		Detail	Communication error between CRUM PWB and MCU PWB
		Cause	CRUM PWB data error MCU PWB error MCU PWB EEPROM error Disconnection between CRUM (toner cartridge) and MCU PWB
		Check and remedy	Replace the toner cartridge. Replace MCU PWB. Replace MCU PWB EEPROM Check and fix connection between CRUM (toner cartridge) and MCU PWB.
F5	02	Content	Copy lamp error
		Detail	Copy lamp voltage detection error
		Cause	Power unit trouble Copy lamp trouble Inverter trouble MCU PWB trouble
		Check and remedy	Replace the power unit. Check the copy lamp ON with SIM 5-3. Replace the copy lamp. Replace the inverter. Replace the MCU PWB.
F6	00	Content	Communication trouble between MCU and FAX (MCU detection)
		Detail	Communication establishment error, framing error, parity error, protocol error
		Cause	Bad connection of FAX control PWB connector 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 grounding of the machine. Check FAX control PWB ROM.
	10	Content	FAX control PWB trouble
		Detail	Communication trouble between MCU and FAX control PWB
		Cause	Bad connection of FAX control PWB connector 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 between FAX control PWB and MCU PWB. Check grounding of the machine. Check FAX control PWB ROM.
	80	Content	FAX control PWB communication trouble (Protocol)
		Detail	Communication trouble between MCU and FAX control PWB (Protocol error)

Main code	Sub code		Detail of trouble	
F6	80	Cause	Bad connection of FAX control PWB connector 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 between FAX control PWB and MCU PWB. Check grounding of the machine. Check FAX control PWB ROM.	
		81	Content	FAX control PWB communication trouble (Parity)
			Detail	Communication trouble between MCU and FAX control PWB (Parity error)
	81	Cause	Bad connection of FAX control PWB connector 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 between FAX control PWB and MCU PWB. Check grounding of the machine. Check FAX control PWB ROM.	
		82	Content	FAX control PWB communication trouble (Overrun)
			Detail	Communication trouble between MCU and FAX control PWB (Overrun error)
	82	Cause	Bad connection of FAX control PWB connector 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 between FAX control PWB and MCU PWB. Check grounding of the machine. Check FAX control PWB ROM.	
		84	Content	FAX control PWB communication trouble (Framing)
			Detail	Communication trouble between MCU and FAX control PWB (Framing error)
84	Cause	Bad connection of FAX control PWB connector 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 between FAX control PWB and MCU PWB. Check grounding of the machine. Check FAX control PWB ROM.		

Main code	Sub code		Detail of trouble
F6	88	Content	FAX control PWB communication trouble (Timeout)
		Detail	Communication trouble between MCU and FAX control PWB (Timeout error)
		Cause	Bad connection of FAX control PWB connector 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 between FAX control PWB and MCU PWB. Check grounding of the machine. Check FAX control PWB ROM.
F9	00	Content	Communication trouble between MCU and printer PWB (MCU detection)
		Detail	Communication establishment error, framing error, parity error, protocol error
		Cause	Bad connection of printer PWB connector Defective harness between printer PWB and MCU PWB. Motherboard connector pin breakage Printer PWB ROM error, data error
		Check and remedy	Check connector/harness of printer PWB and MCU PWB. Check grounding of the machine. Check printer PWB ROM.
	10	Content	Printer PWB trouble
		Detail	Communication trouble between MCU and printer PWB
		Cause	Bad connection of printer PWB connector Defective harness between printer PWB and MCU PWB. Motherboard connector pin breakage Printer PWB ROM error, data error
		Check and remedy	Check connector/harness of printer PWB and MCU PWB. Check grounding of the machine. Check printer PWB ROM.
	80	Content	Printer PWB communication trouble (Protocol)
		Detail	Communication trouble between MCU and printer PWB (Protocol error)
		Cause	Bad connection of printer PWB connector Defective harness between printer PWB and MCU PWB. Motherboard connector pin breakage Printer PWB ROM error, data error
		Check and remedy	Check connector/harness of printer PWB and MCU PWB. Check grounding of the machine. Check printer PWB ROM.

Main code	Sub code		Detail of trouble
F9	81	Content	Printer PWB communication trouble (Parity)
		Details	Communication trouble between MCU and printer PWB(Parity error)
		Cause	Printer PWB connector disconnection Printer PWB MCU PWB harness failure Printer PWB mother board connector pin breakage. Printer PWB ROM defect,data failure
		Check and remedy	Check the connectors and harness of the printer PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the printer PWB.
	82	Content	Printer PWB communication trouble (Overrun)
		Details	Communication trouble between MCU and printer PWB(Overrun error)
		Cause	Printer PWB connector disconnection Printer PWB MCU PWB harness failure Printer PWB mother board connector pin breakage. Printer PWB ROM defect,data failure
		Check and remedy	Check the connectors and harness of the printer PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the printer PWB.
	84	Content	Printer PWB communication trouble (Framing)
		Details	Communication trouble between MCU and printer PWB(Framing error)
		Cause	Printer PWB connector disconnection Printer PWB MCU PWB harness failure Printer PWB mother board connector pin breakage. Printer PWB ROM defect,data failure
		Check and remedy	Check the connectors and harness of the printer PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the printer PWB.
88	Content	Printer PWB communication trouble (Time-out)	
	Details	Communication trouble between MCU and printer PWB(Time-out error)	

Main code	Sub code		Detail of trouble
F9	88	Cause	Printer PWB connector disconnection Printer PWB MCU PWB harness failure Printer PWB mother board connector pin breakage. Printer PWB ROM defect,data failure
		Check and remedy	Check the connectors and harness of the printer PWB and the MCU PWB. Check grounding of the machine. Check the ROM of the printer PWB.
H2	00	Content	Thermistor open detection
		Detail	Fusing thermistor open
		Cause	Thermistor defect MCU PWB defect Fusing section connector contact failure Power supply failure Fusing unit not installed
		Check and remedy	Check the harness and the connector of the thermistor and the MCU. Clear the self diag display with SIM 14.
H3	00	Content	Heat roller abnormally high temperature
		Detail	Fusing temperature of 220 ~ 240°C.
		Cause	Thermistor defect MCU PWB defect Fusing connector connection failure Power supply 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 lights up instead of blinking: Check the lamp control circuit of the power supply PWB and the MCU PWB. Clear the trouble with SIM 14.
H4	00	Content	Heat roller abnormally low temperature
		Detail	When the temperature does not reach 155°C within 55 sec after turning on the power, or when it falls under 145°C during printing, or when it falls under 100°C during pre-heating.
		Cause	Thermistor failure Heater lamp failure MCU PWB failure Thermostat failure Power supply failure Interlock switch failure

Main code	Sub code		Detail of trouble
H4	00	Check and remedy	Check blinking of the heater lamp 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 heater lamp disconnection or thermostat disconnection. Check the interlock switch. Check the power supply PWB and MCU PWB lamp control circuit. Clear the trouble with SIM 14.
L1	00	Content	Mirror base feed trouble
		Detail	The mirror home position (MHPS) does not turn off though the feed operation is completed during mirror initial operation after turning on the power. The mirror home position (MHPS) does not turn off during shading operation. The mirror home position (MHPS) does not turn on when the mirror base is returned for the specified time after copy feed is started and SPF scanning position shift is performed.
		Cause	Mirror unit defect Mirror home position sensor defect MCU PWB defect Scanner wire disconnection
		Check and remedy	Check the scanning operation with SIM 1-1.
L3	00	Content	Mirror base return trouble
		Detail	The mirror home position (MHPS) does not turn on though the mirror base returning is completed during mirror initial operation after turning on the power. The mirror home position does not turn on when the mirror is returned to the home position during shading. The mirror home position (MHPS) does not turn on when the mirror base returning is completed for the specified time (about 6 sec) after copy return start.
		Cause	Mirror unit Mirror home position sensor defect MCU PWB defect Scanner wire disconnection
		Check and remedy	Check the scanning operation with SIM 1-1.
L4	01	Content	Main motor lock
		Detail	The main motor encoder pulse is not detected for 400msec.
		Cause	Main motor defect Harness disconnection between the MCU PWB and the main motor. Control circuit failure

Main code	Sub code		Detail of trouble
L4	01	Check and remedy	Check the main motor operation with SIM 25-1. Check the harness and the connector between the MCU PWB and the main motor.
		Content	Job separator motor trouble
	10	Details	When the home is not detected within 2.5 sec after the job separator tray starts to move upwards.
		Cause	The job separator upper limit detection sensor is defective. The job separator motor is defective. The job separator motor periphery circuit is defective. The condition of the MCU PWB JP5 is wrong.
		Check and countermeasure	Check the job separator operation by means of SIM3-2 and 4. Check the harnesses and connectors. Check whether the condition of the MCU PWB JP5 is correct.
L6	10	Content	Polygon motor lock
		Detail	The lock signal (the specified rotation speed signal) is not supplied within the specified time (about 6 sec)after starting the polygon motor rotation.
		Cause	LSU connector disconnection or harness disconnection in the LSU.
		Check and remedy	Check the operation of the polygon motor with SIM 25-10. Check the harness and the connector connection. LSU replacement
L8	01	Content	Zero cross pulse (FW) trouble
		Detail	Zero cross pulse width is shifted by 55Hz 10% or more.
		Cause	MCU PWB defect Power supply unit breakdown
		Check and remedy	Check the harness and the connector. MCU PWB replacement Power supply unit replacement
U2	04	Content	EEPROM serial communication error
		Detail	Error in communication with EEPROM
		Cause	EEPROM failure Installation of uninitialized EEPROM MCU PWB EEPROM access circuit failure
		Check and remedy	Check that the EEPROM is properly set. To prevent against loss of counter/adjustment values, record the values with simulation. U2 trouble cancel with SIM 16 MCU PWB replacement

Main code	Sub code		Detail of trouble
U2	11	Content	Counter check sum error
		Detail	Counter check sum value stored in the EEPROM is abnormal.
		Cause	EEPROM failure Control circuit hung up by noises MCU PWB EEPROM access circuit defect
		Check and remedy	Check that the EEPROM is properly set. To prevent against loss of counter/adjustment values, record the values with simulation. U2 trouble cancel with SIM 16 MCU PWB replacement
	12	Content	Adjustment value check sum error (EEPROM)
		Detail	Adjustment value data area check sum error
		Cause	EEPROM failure Control circuit hung up by noises MCU PWB EEPROM access circuit failure
		Check and remedy	Check that the EEPROM is properly set. To prevent against loss of counter/adjustment values, record the values with simulation. U2 trouble cancel with SIM 16 MCU PWB replacement
	40	Content	CRUM communication error
		Detail	Toner cartridge CRUM data read error
		Cause	A toner cartridge of a different destination is installed. EEPROM trouble Toner cartridge CRUM PWB trouble MCU PWB trouble CRUM connector disconnection
		Check and remedy	Install a specified toner cartridge. Check the SIM 26-6 setup. Replace the EEPROM. Replace the toner cartridge. Replace the MCU PWB. Check connection of the CRUM connector. Execute SIM 16.
U3	29	Content	Mirror base home position error
		Detail	Home position is not detected when starting mirror base shift.
		Cause	Mirror unit defect Mirror home position sensor defect MCU PWB defect Scanner wire disconnection
		Check and remedy	Check the scanning operation with SIM 1-1.
U9	00	Content	Communication trouble between MCU and OPE (OPE detection)
		Detail	Communication setup error, framing, parity, protocol error

Main code	Sub code		Detail of trouble
U9	00	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 the MCU PWB. Check grounding of the machine. Check the ROM of the operation control PWB.
	80	Content	Operation control PWB communication trouble (Protocol)
		Detail	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 the MCU PWB. Check grounding of the machine.
	81	Content	Operation control PWB communication trouble (Parity)
		Detail	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 the MCU PWB. Check grounding of the machine.
	82	Content	Operation control PWB communication trouble (Overrun)
		Detail	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 the MCU PWB. Check grounding of the machine.
	84	Content	Operation control PWB communication trouble (Framing)
		Detail	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 the MCU PWB. Check grounding of the machine.

Main code	Sub code		Detail of trouble
U9	88	Content	Operation control PWB communication trouble (Time-out)
		Detail	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 the MCU PWB. Check grounding of the machine.
U95		Content	Operation control PWB communication error
		Detail	Communication error between the operation control PWB and the MCU PWB (Detected by the OPE-PWB)
		Cause	Disconnection or reverse connection of the flat cable between the Operation control PWB and the MCU PWB. Operation control PWB trouble MCU PWB trouble Connector trouble of the operation control PWB and the MCU PWB
		Check and remedy	Check insertion of or replace the flat cable between the operation control PWB and the MCU PWB. Replace the operation control PWB. Replace the MCU PWB. Check connection of the connector of the operation control PWB and the MCU PWB.
U99		Content	Operation control PWB communication error
		Detail	Communication error between the operation control PWB and the MCU PWB (Detected by the OPE-PWB)
		Cause	Disconnection or reverse connection of the flat cable between the Operation control PWB and the MCU PWB. Operation control PWB trouble MCU PWB trouble Connector trouble of the operation control PWB and the MCU PWB
		Check and remedy	Check insertion of or replace the flat cable between the operation control PWB and the MCU PWB. Replace the operation control PWB. Replace the MCU PWB. Check connection of the connector of the operation control PWB and the MCU PWB.