[9] SELF DIAG MESSAGE AND TROUBLESHOOTING

[Error code]

1. General

When a trouble occurs in the machine or when the life of a consumable part is nearly expired or when the life is expired, the machine detects and displays it on the display section. This allows the user and the serviceman to take the suitable action. In case of a trouble, this feature notifies the occurrence of a trouble and stops the machine to minimize the damage.

2. Function and purpose

- Securing safety. (The machine is stopped on detection of a trouble.)
- 2) The damage to the machine is minimized. (The machine is stopped on detection of a trouble.)
- By displaying the trouble content, the trouble position can be quickly identified. (This allows to perform an accurate repair, improving the repair efficiency.)
- 4) Preliminary warning of running out of consumable parts allows to arrange for new parts in advance of running out. (This avoids stopping of the machine due to running out the a consumable part.)

3. Self diag message kinds

The self diag messages are classified as shown in the table below.

Class 1	User	Warning of troubles which can be recovered by the user. (Paper jam, consumable part life expiration, etc.)
	Service	Warning of troubles which can be recovered
	man	only by a serviceman. (Motor trouble,
		maintenance, etc.)
	Other	_
Class 2	Warning	Warning to the user, not a machine trouble (Preliminary warning of life expiration of a consumable part, etc.)
	Trouble	Warning of a machine trouble. The machine is stopped.
	Other	_

4. Self diag operation

A. Self diag operation and related work flow

The machine always monitors its own state.

When the machine recognizes a trouble, it stops the operation and displays the trouble message.

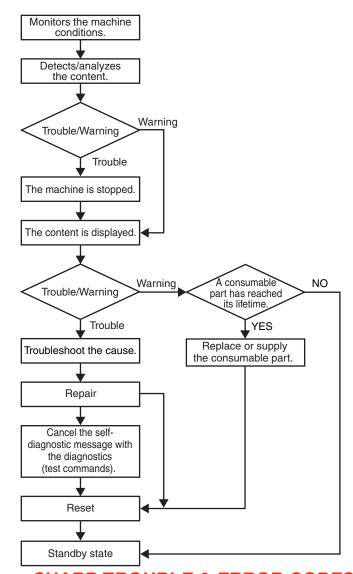
A warning message is displayed when a consumable part life is nearly expired or is expired.

When a warning message is displayed, the machine may be or may not be stopped.

The trouble messages and the warning messages are displayed by the LCD.

Some trouble messages are automatically cleared when the trouble is repaired. Some other troubles must be cleared by a simulation.

Some warning messages of consumable parts are automatically cleared when the trouble is repaired. Some other warning messages must be cleared by a simulation.



SHARP TROUBLE & ERROR CODES AR-M550N, AR-M550U, AR-M620N, AR-M620U, AR-M700N, AR-M700U

5. Breakdown sequence

A. Breakdown mode process

(1) Breakdown mode list

There are following cases of the breakdown mode.

					Operation	on enab	le mode	,	
(The machine can be operated under some conditions.)	Judgment block	Trouble code	Copy read (including interrupt)	FAX send	Email receive	FAX print	Print	List print	Notification to FASThost
(SPF breakdown)	Scanner	U5	Δ1	Δ1	Δ1	0	0	0	0
Scanner section breakdowns (Mirror motor, lens, copy lamp)	Scanner	L1, L3, U2 (80, 81)	×	×	×	0	0	0	0
FAX board breakdown	MFP control/ FAX	F6, F7	О	×	O	×	0	О	×
FAX power OFF	MFP control		0	×	0	×	0	0	×
Network error	MFP control	CE	0	0	×	0	0	0	×
Staple breakdown	PCU	F1 (10)	Δ2	0	0	$\Delta 2$	Δ2	Δ2	0
Paper feed tray breakdown	PCU	F3, U6 (LCC)	Δ3	0	0	$\Delta 3$	Δ3	Δ3	0
(Process control breakdown)	PCU	F2 (31, 32, 37)	Δ4	0	О	$\Delta 4$	$\Delta 4$	$\Delta 4$	0
PCU section breakdowns (Motor, fusing section, etc.)	PCU	C1, C2, C3, H2, H3, H4, H5, L4 (excluding L4-30), L8, U2 (90, 91), F2, F4	×	0	О	×	×	×	О
After-process breakdown	PCU	F1	Δ5	0	0	$\Delta 5$	Δ5	Δ5	0
Inserter trouble (excluding communication trouble)	PCU	F1 (61, 62)	Δ7	О	О	Δ7	Δ7	Δ7	0
Laser breakdown	PCU	E7 (02 only), L6	×	0	0	×	×	×	0
HDD breakdown	MFP control	E7 (03)	×	×	×	×	×	×	0
CCD breakdowns (Shading, etc.)	Scanner	E7 (10, 11, 12, 14)	×	×	×	0	0	0	0
CIS breakdowns (Shading, etc.)	Scanner	E6 (10, 11, 14)	Δ6	Δ6	$\Delta 6$	0	0	0	0
Scanner communication trouble	MFP control	E7 (80)	×	×	×	0	0	0	0
PCU communication trouble	MFP control	E7 (90)	×	×	×	×	×	×	0
FAX backup battery voltage fall	MFP control	U1 (01, 02)	О	×	×	0	0	0	0
HDD registration data sum error	MFP control	U2 (50)	0	×	×	0	0	0	0
Thermistor trouble (trouble history)	PCU	F2 (39, 46, 47, 48)	0	0	0	0	0	0	О

(The machine cannot be operated.)

Memory	MFP control	U2 (00, 11, 12, 22, 23)	×	×	×	×	×	×	0
External communication disable (RICA)	MFP control	U7, PF	×	×	×	×	×	×	0
Image memory trouble, decode error	MFP control	E7 (01, 06)	×	×	×	×	×	×	0
Incompatibility check error		E7 (50, 55, 56, 57, 60, 65, 66, 67)	×	×	×	×	×	×	×
Controller fan motor trouble	MFP control	L4-30	×	×	×	×	×	×	×

- * For FAX communication, refer to the sheet of "Call request and Callin."
- * The machine may be operated under some conditions.
- $\Delta 1:$ When detected except when in a job, the machine can be operated in the OC mode.
- $\Delta 2\text{:}$ Can be operated except in the staple mode.
- $\Delta 3$: When detected except in a job, the machine can be operated except with the breakdown tray.
- $\Delta 4$: Can be operated with some restriction on the image quality depending on the destination. (Low density print) * Refer to the process control trouble operation table below.
- $\Delta 5 :$ When detected except in a job, can be operated except in the trouble paper exit section.
- $\Delta 6:$ When detected except in a job, can be operated in the single surface scan mode.
- $\Delta 7\text{:}$ Can be operated except in the inserter tray, if the error is detected in the standby mode.

* Process control trouble operation table

Trouble code	Error content	Japan/SEC	Europe/ Others
F2-31	Process control sensor gain adjustment failure	Machine stop	Low density copy
F2-32	Mark detection failure	Low density copy	Low density copy
F2-37	Mark sensor gain adjustment failure	Machine stop	Low density copy

(2) Trouble mode process

The machine can be operated under some conditions.

Operations except for the trouble mode are enabled (READY). For the modes which cannot be operated, only setting is enabled and a message is given to show the operations are disabled. (NOT READY in this case)

(Display)

When a trouble occurs, a dialog is shown. In the mode where the operation is enabled, the OK button is added to the message. In the mode where the operation is disabled, the OK button is not shown and the display is kept until the trouble is canceled.

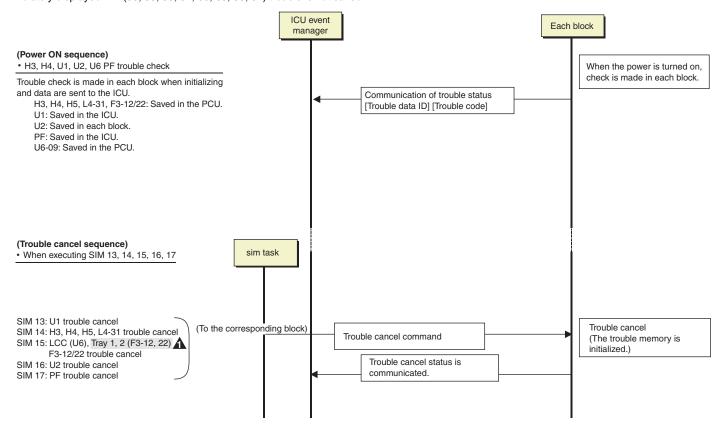
(3) Writing to the trouble memory

In case of a same trouble in this machine, selection is made with the simulation to write into the trouble memory or not. If this simulation is set, any trouble is written into the trouble memory unconditionally. (SIMULATION. 26-35)

- 0: A same trouble as the previous one is not written. (Default)
- 1: Any trouble is written into the trouble memory unconditionally.

B. Power ON trouble detection sequence.

• When the power is turned ON, if H3, H4, H5, U1, U2, PF, L4-31, F3-12/22, or U6 (LCC-related sub code 09 only) is saved, a trouble code is immediately displayed. E7 (50, 55, 56, 57, 60, 65, 66, 67) trouble is not saved.



6. Communication in trouble

A. FAX call request/call-in specifications

Trouble	Send reservation	Print	Call request	Call-in	Precaution
PCU breakdowns (Incompatibility check error: E7 (50, 56, 57, 65, 66, 67))	0	×	0	Note	There is a risk that the memory is full.
F3, U6 (Paper feed tray breakdown)	0	Δ2	0	0	
F1 (Paper exit section breakdown)	0	Δ4	0	0	
Scanner breakdowns	×	0	0	0	
F6, F7 (FAX breakdown)	×	×	×	×	
E7 (01, 06) (MFP control breakdown)	×	×	×	×	
U2 (00, 11, 12, 22, 23, 50) (MFP control memory error)	×	×	×	×	
U7 (RIC external communication disable), PF	×	×	×	×	Inhibition of use by a customer having outstanding fee
U1 (Backup battery voltage fall)	×	Δ3	× Note	×	Transfer enable
E7 (50, 55, 56, 57, 60, 65, 66, 67) (Incompatibility check error)	×	×	×	×	
L4-30 (Controller fan motor trouble)	×	×	×	×	
Door open	0	×	0	ONote	There is a risk that the memory is full.
Toner empty	0	×	0	ONote	There is a risk that the memory is full.
Process cartridge uninstalled, etc.	0	×	0	ONote	There is a risk that the memory is full.
Paper empty	0	×	0	ONote	There is a risk that the memory is full.
Paper JAM	0	×	0	ONote	There is a risk that the memory is full.
Document JAM	×	0	0	0	
Simulation	×	×	×	×	
Key operation (Communication disable)	×	×	×	×	

 $[\]Delta 2$: Enable except for the trouble tray

7. Trouble kind

Troubl	e code			Trouble					
Main	Sub	Trouble content	Remarks	detection	Mechanism	Option	Electricity	FAX	Supply
code	code								
C1	00	MC trouble		PCU			•		
CE	00	Another communication error occurs.		Network					
CE	01	The network card is not installed or broken.		Network					
CE	02	The specified mail server or the FTP server is not found.		Network					
CE	03	The specified server suspends response during transmission of images.		Network					
CE	04	The entered account name of the FTP server or the password for authentication is invalid.		Network					
CE	05	The entered directory of the FTP server is invalid.		Network					
CE	06	The specified mail server (POP3) is not found.		Network					
CE	07	The entered account name of the POP3 server or the password for authentication is invalid.		Network					
CE	80	The specified mail server (POP3) suspends response.		Network					
CH	_	Door open (CH ON)		PCU					
E6	11	CIS shading trouble (White correction)		Scanner			•		
E6	14	CIS-ASIC communication trouble		Scanner			•		
E7	01	System data trouble		MFP control	-	-	-	_	_
E7	02	Laser trouble		PCU			•		
E7	03	HDD trouble		MFP control			•		
E7	06	Decode error trouble		MFP control			•		
E7	10	CCD shading trouble (Black correction)		Scanner			•		
E7	11	CCD shading trouble (White correction)		Scanner			•		
E7	12	CCD shading trouble (White correction center adjustment)		Scanner			•		
E7	14	CCD-ASIC communication trouble		Scanner			•		
E7	50	LSU connection trouble		PCU			•		
E7	55	Incompatibility check (Engine (PCU) detection)		PCU			•		

^{*} When, however, a paper feed tray trouble is detected during a job, the engine is stopped and printing is disabled.

Δ3: The display goes to the FAX status check menu and the list can be printed.: The received document is outputted.

 $[\]Delta 4$: Paper exit is enabled except for the trouble paper exit tray

^{*} When, however, a paper feed tray trouble is detected during a job, the engine is stopped and printing is disabled.

Main code	Sub code	Trouble content	Remarks	Trouble detection	Mechanism	Option	Electricity	FAX	Supp
E7		Incompatibility check (Engine (PCU) detection)		PCU			•		
E7	57	Incompatibility check (Engine (PCU) detection)		PCU			•		
E7	60	Controller connection trouble		MFP control			•		
E7		Incompatibility check (MFP controller detection)		MFP control			•		
E7		Incompatibility check (MFP controller detection)		MFP control			•		
E7	67	Incompatibility check (MFP controller detection)		MFP control			•		
E7		Scanner PWB communication trouble		MFP control			•		
E7	90	PCU PWB communication trouble		MFP control			•		
EE		Auto developer adjustment trouble (Overtoner error)	During SIM only	PCU					•
EE		Auto developer adjustment trouble (Undertoner error)	During SIM only	PCU					•
F1		Finisher communication trouble		PCU		•			
F1		Finisher transport motor abnormality		PCU		•			
F1		Finisher oscillation motor trouble		PCU		•			
F1		Finisher staple shift motor trouble		PCU		•			
F1		Finisher load capacity sensor trouble		PCU		•			
F1		Finisher/staple motor trouble		PCU		•			
F1		Finisher/pusher motor trouble		PCU		•			
F1	15	Finisher elevator motor trouble		PCU		•			
F1	19	Finisher/jogger motor trouble		PCU		•			
F1	31	Finisher saddle folding motor trouble		PCU		•			
F1		Finisher-saddle communication trouble		PCU		•			
F1	33	Finisher/punch shift motor trouble		PCU		•			
F1	34	Finisher/punch motor trouble		PCU		•			
F1	37	Finisher/backup RAM data trouble		PCU		•			
F1		Finisher/punch backup RAM data trouble		PCU		•			
F1		Finisher/saddle positioning plate motor trouble		PCU		•			
F1		Finisher/saddle guide motor trouble		PCU		•			
F1		Finisher/saddle alignment motor trouble		PCU		•			
F1		Finisher/saddle rear staple motor trouble		PCU		•			
F1		Finisher/saddle front staple motor trouble		PCU		•			
F1		Finisher/saddle push motor trouble		PCU		•			
F1		Finisher/sensor connector connection trouble		PCU		•			
F1		Finisher/micro switch trouble		PCU		•			
F1	60	Finisher-inserter communication trouble		PCU		•			
F1		Inserter/EEPROM trouble		PCU		•			
F1		Inserter/reverse sensor trouble		PCU		•			
F2	00	Toner concentration sensor open		PCU					•
F2		Toner supply abnormality		PCU					•
F2	04	Improper cartridge (Destination error, life cycle error)		PCU					•
F2		CRUM error		PCU					•
F2		Process control trouble (Photoconductor surface reflection rate abnormality)		PCU					•
F2		Process control trouble (Drum marking scan failure)		PCU					•
F2	37	Drum marking sensor gain adjustment error		PCU					•
F2		Process thermistor breakdown		PCU					•
F2		Developing thermistor breakdown		PCU					•
F2	48	Developing humidity sensor break down		PCU					•
F3		Tray 1 lift-up trouble		PCU	•				
F3		Tray 2 lift-up trouble		PCU	•				
F3	32	Tray 3 lift-up trouble		PCU	•				
F3		Tray 4 lift-up trouble		PCU	•				
F4		38 (V) voltage trouble		PCU			•		
F6		FAX board communication trouble		MFP control		 	•	•	
F6		FAX expansion flash ROM abnormality		MFP control				•	
F6		FAX modem operation abnormality		FAX				•	
F6		FAX write protect cancel		FAX					
F6	21							-	
гο	۷١	Combination error of TEL/LIU PWB and software		FAX				•	

Main Sub Combination error of the FAX-BOX destination information and the machine destination (HL2)	Trouble	e code								
code Gode FAX-BOX Incompatibility trouble FAX	-		Trouble content	Remarks		Mechanism	Option	Electricity	FAX	Supply
F6 98 Combination error of the FAX-BOX destination information on the machine destination information on the machine destination information					detection			,		
F6 98 Combination error of the FAX-BOX destination information on the machine destination information on the machine destination information	F6	97	FAX-BOX incompatibility trouble		FAX				•	
Information	F6				FAX					
F7 01 FAX board EEPROM read/write error FAX			information and the machine destination						•	
F9 02 PRT centro port check error MFP control										
H2		01	FAX board EEPROM read/write error						•	
H2	F9				MFP control			•		
H2			. , ,			•				
Hoat roller high temperature detection (HL1)			. , ,			•				
Heat roller high temperature detection (HL2)			, , , ,			•				
Hast roller high temperature detection (HL3)			· · · · · · · · · · · · · · · · · · ·			•				
H4			• ' ' '		-					
H4						•				
H4			. ,			•				
H5			, , , , ,			•				
L1			. ,			•				
L1	H5	01			PCU	•				
L3	1.1	00			Cooppor					
L4										
L4 02 Drum motor lock detection										
L4 03 Fusing motor lock detection PCU										
L4 04 Developing motor lock detection PCU										
L4 06 Transfer belt separation motor trouble L4 30 Controller fan motor trouble L4 31 Paper discharging fan trouble L6 10 Polygon motor lock detection PCU B1 00 PPCU B1 01 No full wave signal PC 0 Personal counter uninstalled PF 00 RIC copy inhibit command receive U1 01 FAX battery abnormality WFP control U2 00 EEPROM read/write error (MFP control) WFP control U3 11 Counter check sum error (MFP control) WFP control U4 12 Adjustment value check sum error (MFP control EEPROM) WFP control U2 22 MFPC section SRAM memory check sum error WFP control U2 23 MFPC section SRAM memory individual data check sum error U2 80 Scanner section EEPROM read/write error U2 81 Scanner section EEPROM read/write error U2 91 PCU section memory sum check error U2 91 PCU section memory sum check error U3 91 PCU section memory sum check error U3 91 PCU section memory sum check error U4 91 PCU section memory sum check error U5 30 SPF tray lift-up trouble Scanner U6 21 LCC ctransport motor trouble PCU U6 21 LCC ctransport motor trouble PCU U6 22 LCC 24V power abnormality addition WFP control PCU PCU PCU MFP control MFP control MFP control MFP control DFP c										
L4 30 Controller fan motor trouble MFP control L4 31 Paper discharging fan trouble MFP control L6 10 Polygon motor lock detection PCU L8 01 No full wave signal PCU PC - Personal counter uninstalled MFP control PF 00 RIC copy inhibit command receive MFP control U1 01 FAX battery abnormality MFP control U1 02 RTC read error (combined use as FAX, on MFP control DEFPROM read/write error (MFP control) MFP control U2 11 Counter check sum error (MFP control MFP control U2 12 Adjustment value check sum error (MFP control EEPROM) MFP control DEFPROM MFP control DEPROM MFP control DEPR								•		
L4 31 Paper discharging fan trouble MFP control			•					•		
L6								•		
December								•		
PC - Personal counter uninstalled								•		
PF 00 RIC copy inhibit command receive MFP control U1 01 FAX battery abnormality MFP control U1 02 RTC read error (combined use as FAX, on MFP control world on the property of the pr			ŭ .					-		
U1 01 FAX battery abnormality WFP control U2 02 RTC read error (combined use as FAX, on MFP control	PF	00						•		
Control PWB Control PWB Control PWB Control PWB Counter check sum error (MFP control EEPROM) MFP control Counter check sum error (MFP control EEPROM) MFP control EEPROM EEPROM MFP control EEPROM	U1				MFP control				•	
Control PWB Control PWB Control PWB Control PWB Counter check sum error (MFP control EEPROM) MFP control Counter check sum error (MFP control EEPROM) MFP control EEPROM EEPROM MFP control EEPROM	U1		, ,		MFP control					
U2									•	
U2 12 Adjustment value check sum error (MFP control EEPROM) U2 22 MFPC section SRAM memory check sum error MFP control U2 23 MFPC section SRAM memory individual data check sum error MFP control U2 50 HDD section individual data check sum error Scanner U2 80 Scanner section EEPROM read/write error Scanner U2 81 Scanner section memory sum check error Scanner U2 90 PCU section EEPROM read/write error PCU U3 91 PCU section memory sum check error PCU U5 30 SPF tray lift-down trouble Scanner U6 09 LCC lift motor trouble PCU U6 21 LCC transport motor trouble PCU U7 00 PC/Modem communication trouble MFP control	U2	00	EEPROM read/write error (MFP control)		MFP control			•		
EÉPROM) U2 22 MFPC section SRAM memory check sum error MFP control U2 23 MFPC section SRAM memory individual data check sum error MFP control U2 50 HDD section individual data check sum error MFP control U2 80 Scanner section EEPROM read/write error Scanner U2 81 Scanner section memory sum check error Scanner U2 90 PCU section EEPROM read/write error PCU U3 91 PCU section memory sum check error PCU U5 30 SPF tray lift-up trouble Scanner U5 31 SPF tray lift-down trouble Scanner U6 09 LCC lift motor trouble PCU U6 20 LCC communication trouble PCU U6 21 LCC transport motor trouble PCU U7 00 PC/Modem communication trouble MFP control	U2	11	Counter check sum error (MFP control EEPROM)		MFP control			•		
U2 23 MFPC section SRAM memory individual data check sum error MFP control U2 50 HDD section individual data check sum error MFP control U2 80 Scanner section EEPROM read/write error Scanner U2 81 Scanner section memory sum check error Scanner U2 90 PCU section EEPROM read/write error PCU U2 91 PCU section memory sum check error PCU U5 30 SPF tray lift-up trouble Scanner U5 31 SPF tray lift-down trouble Scanner U6 09 LCC lift motor trouble PCU U6 20 LCC communication trouble PCU U6 21 LCC transport motor trouble PCU U6 22 LCC 24V power abnormality addition PCU U7 00 PC/Modem communication trouble MFP control	U2		,		MFP control			•		
U2 23 MFPC section SRAM memory individual data check sum error MFP control U2 50 HDD section individual data check sum error MFP control U2 80 Scanner section EEPROM read/write error Scanner U2 81 Scanner section memory sum check error Scanner U2 90 PCU section EEPROM read/write error PCU U2 91 PCU section memory sum check error PCU U5 30 SPF tray lift-up trouble Scanner U5 31 SPF tray lift-down trouble Scanner U6 09 LCC lift motor trouble PCU U6 20 LCC communication trouble PCU U6 21 LCC transport motor trouble PCU U6 22 LCC 24V power abnormality addition PCU U7 00 PC/Modem communication trouble MFP control	U2	22	MFPC section SRAM memory check sum error		MFP control				•	
U2 50 HDD section individual data check sum error MFP control U2 80 Scanner section EEPROM read/write error Scanner U2 81 Scanner section memory sum check error Scanner U2 90 PCU section EEPROM read/write error PCU U2 91 PCU section memory sum check error PCU U5 30 SPF tray lift-up trouble Scanner U5 31 SPF tray lift-down trouble Scanner U6 09 LCC lift motor trouble PCU U6 20 LCC communication trouble PCU U6 21 LCC transport motor trouble PCU U6 22 LCC 24V power abnormality addition PCU U7 00 PC/Modem communication trouble MFP control	U2									
U2 80 Scanner section EEPROM read/write error Scanner ● U2 81 Scanner section memory sum check error Scanner ● U2 90 PCU section EEPROM read/write error PCU ● U2 91 PCU section memory sum check error PCU ● U5 30 SPF tray lift-up trouble Scanner ● U5 31 SPF tray lift-down trouble Scanner ● U6 09 LCC lift motor trouble PCU ● U6 20 LCC communication trouble PCU ● U6 21 LCC transport motor trouble PCU ● U6 22 LCC 24V power abnormality addition PCU ● U7 00 PC/Modem communication trouble MFP control ●	112	50			MEP control					
U2 81 Scanner section memory sum check error Scanner ● U2 90 PCU section EEPROM read/write error PCU ● U2 91 PCU section memory sum check error PCU ● U5 30 SPF tray lift-up trouble Scanner ● U5 31 SPF tray lift-down trouble Scanner ● U6 09 LCC lift motor trouble PCU ● U6 20 LCC communication trouble PCU ● U6 21 LCC transport motor trouble PCU ● U6 22 LCC 24V power abnormality addition PCU ● U7 00 PC/Modem communication trouble MFP control ●								•	_	
U2 90 PCU section EEPROM read/write error PCU ● U2 91 PCU section memory sum check error PCU ● U5 30 SPF tray lift-up trouble Scanner ● U5 31 SPF tray lift-down trouble Scanner ● U6 09 LCC lift motor trouble PCU ● U6 20 LCC communication trouble PCU ● U6 21 LCC transport motor trouble PCU ● U6 22 LCC 24V power abnormality addition PCU ● U7 00 PC/Modem communication trouble MFP control ●										
U2 91 PCU section memory sum check error PCU ● U5 30 SPF tray lift-up trouble Scanner ● U5 31 SPF tray lift-down trouble Scanner ● U6 09 LCC lift motor trouble PCU ● U6 20 LCC communication trouble PCU ● U6 21 LCC transport motor trouble PCU ● U6 22 LCC 24V power abnormality addition PCU ● U7 00 PC/Modem communication trouble MFP control ●			,		_			-		
U5 30 SPF tray lift-up trouble Scanner ● U5 31 SPF tray lift-down trouble Scanner ● U6 09 LCC lift motor trouble PCU ● U6 20 LCC communication trouble PCU ● U6 21 LCC transport motor trouble PCU ● U6 22 LCC 24V power abnormality addition PCU ● U7 00 PC/Modem communication trouble MFP control ●										
U5 31 SPF tray lift-down trouble Scanner ● U6 09 LCC lift motor trouble PCU ● U6 20 LCC communication trouble PCU ● U6 21 LCC transport motor trouble PCU ● U6 22 LCC 24V power abnormality addition PCU ● U7 00 PC/Modem communication trouble MFP control ●						•		-		
U6 09 LCC lift motor trouble PCU ● U6 20 LCC communication trouble PCU ● U6 21 LCC transport motor trouble PCU ● U6 22 LCC 24V power abnormality addition PCU ● U7 00 PC/Modem communication trouble MFP control ●			•			•				
U6 20 LCC communication trouble PCU ● U6 21 LCC transport motor trouble PCU ● U6 22 LCC 24V power abnormality addition PCU ● U7 00 PC/Modem communication trouble MFP control ●			·				•			
U6 21 LCC transport motor trouble PCU ● U6 22 LCC 24V power abnormality addition PCU ● U7 00 PC/Modem communication trouble MFP control ●							•			
U7 00 PC/Modem communication trouble MFP control	U6	21	LCC transport motor trouble		PCU		•			
	U6	22	LCC 24V power abnormality addition		PCU		•			
Auditor NOT BEADY MEP control	U7	00	PC/Modem communication trouble		MFP control			•		
Nil 1 Office		-	Auditor NOT READY		MFP control					

8. Details

Main code	Sub	Title	MC trouble	e
C1	00	Phenomenon	Display	Lamp
			-17	Message
			Details	MC trouble Three successive MHV-T
				signals are detected during operation of MHV. Main charger output
				abnormality (Output
				open) A trouble signal is
				outputted from the high
				voltage transformer.
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble position/	The main charger is not installed properly.
			Cause	The main charger is not assembled properly.
			Remedy	Use SIM 8-2 to check the main charger output. Main charger disconnection check
			Note	
		Case 2	Trouble	The high voltage
			position/ Cause	transformer connector is disconnected.
				The high voltage harness is disconnected or broken.
			Remedy	Connection check
			Note	
		Case 3	Trouble position/	High voltage unit trouble
			Remedy	Replace the high voltage unit.
			Note	

Main code	Sub code	Title	Another co	ommunication error
CE	00	Phenomenon	Display	Lamp
				Message
			Details	Communication error
			Section	
			Operation	
			mode	
			Note	
		Case 1	Trouble	Improper connection of
			position/	the network cable
			Cause	
			Remedy	Check the connection of
				the network cable.
			Note	

Main code	Sub code	Title	The netwo broken.	rk card is not installed or
CE	01	Phenomenon	Display	Lamp
				Message
			Details	Network card connection trouble
			Section	
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	The network card is not installed on the controller.
			Remedy	Check that the network card is installed on the controller.
			Note	
		Case 2	Trouble position/Cause	Network card control PWB trouble
			Remedy	Output the NIC Config. Page to check the NIC version. Replace the NIC.
			Note	

Main code Sub code Title The specified mail server or the FTP server is not found. CE 02 Phenomenon Display Lamp Message Details The specified mail serve or the FTP server is not found. Section Operation mode Note Case 1 Trouble position/ Cause Improper connection of the network cable
Phenomenon Display Lamp Message Details The specified mail server or the FTP server is not found. Section Operation mode Note Case 1 Trouble position/ Improper connection of the network cable
Message Details The specified mail server or the FTP server is not found. Section Operation mode Note Case 1 Trouble position/ Improper connection of the network cable
Details The specified mail serve or the FTP server is not found. Section Operation mode Note Case 1 Trouble position/ Improper connection of the network cable
or the FTP server is not found. Section Operation mode Note Case 1 Trouble position/ Improper connection of the network cable
Section Operation mode Note Case 1 Trouble position/ Improper connection of the network cable
Section Operation mode Note Case 1 Trouble position/ Improper connection of the network cable
Operation mode Note Case 1 Trouble Improper connection of position/ the network cable
mode Note Case 1 Trouble Improper connection of position/ the network cable
Note Case 1 Trouble Improper connection of position/ the network cable
Case 1 Trouble Improper connection of position/ the network cable
position/ the network cable
Cause
Remedy Check that the network
cable is properly
connected.
Note
Case 2 Trouble Network setup trouble
position/
Cause
Remedy 1. Check that the
connected network
supports TCP/IP
protocol.
2. As Primary/Secondary
E-mail Server Address
or Destination from
Web Page 3. When the above
address is described
with the Hostname,
<u> </u>
check that the DNS
<u> </u>

Main code	Sub code	Title	The specified mail server or the FTP server is not found.	
CE	02	Case 3	Trouble position/ Cause Remedy	An error occurs in the SMTP server/ FTP server/ NTS. Check the SMTP server/ FTP server/ NTS for any trouble.
			Note	

Main code	Sub code	Title	The specified server suspends response during transmission of images.	
CE	03	Phenomenon	Display	Lamp
				Message
			Details	The specified server suspends response during transmission of images.
			Section	
			Operation	
			mode	
			Note	
		Case 1	Trouble position/ Cause	Improper connection of the network cable
			Remedy	Check that the network cable is properly connected.
			Note	
		Case 2	Trouble position/Cause	An error occurs in the SMTP server/ FTP server/ NTS.
			Remedy	Check the SMTP server/ FTP server/ NTS for any trouble.
			Note	

	0.1		The entere	ed account name of the	
Main code	Sub code	Title	FTP server or the password for		
	code		authentica	tion is invalid.	
CE	04	Phenomenon	Display	Lamp	
				Message	
			Details	The entered account name of the FTP server	
				or the password for	
				authentication is invalid.	
			Section		
			Operation		
			mode		
			Note		
		Case 1	Trouble position/	Improper connection of the network cable	
			Remedy	Check that the network cable is properly connected.	
			Note		
		Case 2	Trouble position/ Cause	Improper registration of the account name or improper password registered in the FTP server as the destination	
			Remedy	Check the account name or the password registered in the FTP server as the destination.	
			Note		

Main code	Sub code	Title	The entere	ed directory of the FTP nvalid.
CE	05	Phenomenon	Display	Lamp
				Message
			Details	The entered directory of
				the FTP server is invalid.
			Section	
			Operation	
			mode	
			Note	
		Case 1	Trouble	Improper connection of
			position/	the network cable
			Cause	
			Remedy	Check that the network
				cable is properly
				connected.
			Note	
		Case 2	Trouble	Check for existence of
			position/	the directory name in the
			Cause	FTP server registered as
				the destination.
			Remedy	Check for existence of
				the directory name in the
				FTP server registered as
				the destination.
			Note	

Main code	Sub code	Title	The specif	ied mail server (POP3) is
CE	06	Phenomenon	Display	Lamp
				Message
			Details	The specified mail server
				(POP3) is not found.
				POP3 server access error
			Section	
			Operation	
			mode	
			Note	
		Case 1	Trouble	Improper connection of
			position/ Cause	the network cable
			Remedy	Check connection of the network cable.
			Note	notification dubies
		Case 2	Trouble position/	Network setup trouble
			Remedy	1. Check that the connected network supports TCP/IP protocol. 2. Check on the Web page that the POP3 server address is correctly set. 3. When the above address is described with the Hostname, check that the DNS server is properly set or not.
		Case 3	Trouble	An error occurs in the
			position/ Cause	POP3 server.
			Remedy	Check for any error in the POP3 server.
			Note	

Main code	Sub code	Title	POP3 serv	ed account name of the er or the password for tion is invalid.
CE	07	Phenomenon	Display	Lamp
			Details	Message The entered account name of the POP3 server or the password for authentication is invalid. POP3 server authentication check
				error
			Section	
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Improper connection of the network cable
			Remedy	Check connection of the network cable.
			Note	
		Case 2	Trouble position/Cause	Improper account name or password registered in the POP3 server
			Remedy	Check that the account name or the password registered for the POP3 server is correct.
			Note	

Main code	Sub	Title	The specif	ied mail server (POP3) response.
CE	08	Phenomenon	Display	Lamp
			, ,	Message
			Details	The specified mail server (POP3) suspends
				response.
				POP3 server time-out
				error
			Section	
			Operation	
			mode	
			Note	
		Case 1	Trouble position/	Improper connection of the network cable
			Remedy	Check connection of the network cable.
			Note	
		Case 2	Trouble	
			position/	
			Cause	
			Remedy	An error occurs in the POP3 server.
			Note	Check for any error in the POP3 server.

Main code	Sub	Title	CIS shadir	ng trouble (White
E6	11	Phenomenon	Display	Lamp
		1 Henomenon	Display	Message
			Details	CIS shading trouble
			Details	(White correction)
				When the power is
				turned on or when the
				proper gain setup value
				is not obtained with SIM
				63-2 CIS shading (Retry
				number: 256 times):
				CIS white reference plate
				scan level is abnormal
				when the lamp is lighted.
			Section	Scanner
			Operation	
			mode	
			Note	
		Case 1	Trouble	Defective installation of
			position/	the harness to the CIS
			Cause	unit
				CIS unit abnormality
			Remedy	CIS unit harness check
			Note	
		Case 2	Trouble	Reference white plate
			position/	dirt
			Cause	0, ,,
			Remedy	Clean the reference
			Note	white plate.
		Case 3	Trouble	CIS lighting trouble
		Case 3	position/	CIS lighting trouble
			Cause	
			Remedy	Use SIM 5-3 to check the
			ricincuy	light quantity of CIS.
			Note	3 . 4
		Case 4	Trouble	Scanner PWB
			position/	abnormality
			Cause	,
			Remedy	Scanner PWB check
			Note	

Main code	Sub code	Title	CIS communication trouble	
E 6	14	Phenomenon	Display	Lamp
				Message
			Details	CIS communication
				trouble
				When an error occurs in
				an access check to the
				CIS-ASIC on turning on
				the power or closing the
				DSFP cover. (Retry
				number: 5 times)
				Communication trouble
				between the scanner
				PWB and the CIS-ASIC.
				(Clock synchronization)
			Section	Scanner
			Operation	
			mode	
			Note	

Main code	Sub code	Title	CIS communication trouble	
E6	14	Case 1	Trouble position/ Cause Remedy	Defective installation of the harness to the CIS unit Check the harness connected to the CIS unit.
			Note	
		Case 2	Trouble position/	CIS unit abnormality
			Remedy	CIS unit check
			Note	
		Case 3	Trouble position/Cause	Scanner PWB abnormality
			Remedy	Scanner PWB check
			Note	

Main code	Sub	Title	System da	ita trouble
E7	01	Phenomenon	Display	Lamp
				Message
			Details	While reading/writing the HDD system area data, the HDD returns an error response or no response at all for longer than 30 seconds.
			Section	000011001
				Controller
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	No HDD is installed on the MFP control PWB.
			Remedy	Check installation status of the HDD on the MFP control PWB.
			Note	
		Case 2	Trouble position/	HDD does not properly function.
			Remedy	CHECK connection between the HDD and MFP control. Perform an HDD read/write test using SIM 62-2/3. Replace HDD.
			Note	
		Case 3	Trouble position/Cause	MFP control PWB abnormality
			Remedy	Replace the MFP control PWB.
			Note	

Main code	Sub code	Title	Laser trou	ble
E7	02	Phenomenon	Dienlay	Lamp
=/	02	Prienomenon	Display	•
			Dataila	Message
			Details	Laser trouble
				The BD signal from the
				LSU is kept OFF or ON.
				When the polygon motor rotation is started and
				three successive BDT
				signals of I/O ASIC are
				detected after forced
				lighting of laser.
			Section	Engine
			Operation	Liigiiio
			mode	
			Note	
		Case 1	Trouble	The connector to the LSU
		00001	position/	or the harness in the LSU
			Cause	is disconnected or
				broken.
			Remedy	Check for disconnection
				of the connector to the
				LSU.
			Note	
		Case 2	Trouble	The polygon motor does
			position/	not rotate properly.
			Cause	
			Remedy	Check that the polygon
				motor rotated properly or
				not.
			Note	
		Case 3	Trouble	The position of the laser
			position/	home position sensor in
			Cause	the LSU is shifted.
			Remedy	Use SIM 61-1 to check
				the LSU operation.
			Note	
		Case 4	Trouble	A proper voltage is not
			position/	supplied to the power line of the laser.
			Cause	
			Remedy	Replace the LSU unit.
		0 5	Note	Defeative limbing of the
		Case 5	Trouble	Defective lighting of the laser emitting diode
			position/ Cause	laser emitting diode
			Remedy	Check lighting of the laser
			ricilledy	emitting diode.
			Note	oturig alogo.
		Case 6	Trouble	PCU PWB abnormality
		30000	position/	. 55 abnormany
			Cause	
			Remedy	Replace the PCU PWB.
			Note	
		Case 7	Trouble	MFP control ASIC PWB
			position/	abnormality
			Cause	,
			Remedy	Replace the MFP control
				PWB.
			Note	

Main code	Sub	Title	HDD troub	le
E7	03	Phenomenon	Display	Lamp
			Details	Message HDD trouble Data abnormality in the HDD file management area (cluster chain corrupted) The HDD sends an error response or does not
			Section	respond for 30 sec.
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	The HDD is not installed properly to the MFP control PWB.
			Remedy	Check installation of the HDD to the MFP control PWB.
			Note	
		Case 2	Trouble position/	The HDD of the MFP control PWB does not operate properly.
			Remedy	Check connection of the harness to the HDD of the MFP control PWB. Use SIM 62-2, -3 to check read/write of the HDD. Replace the HDD.
			Note	
		Case 3	Trouble position/	MFP control ASIC PWB abnormality
			Remedy	Replace the MFP control PWB.
			Note	

Main code	Sub code	Title	Decode er	ror trouble
E7	06	Phenomenon	Display	Lamp
				Message
			Details	Decode error trouble
				A decode error occurs in
				making an image.
			Section	Controller
			Operation	
			mode	
			Note	
		Case 1	Trouble	Garbled data in input
			position/	from PCI to PM
			Cause	DM trouble
				Data are garbled in image compression/transfer.
			Remedy	Check installation of the
				PWB. (PCI bus)
				If the job at occurrence is
				FAX, check installation of
				the FAX PWB.
				For the other cases,
				check the MFP control
			Note	1 115.
		Case 2	Trouble	MFP control ASIC PWB
			position/	abnormality
			Cause	
			Remedy	Replace the MFP control PWB.

Main code	Sub code	Title	CCD shad	ing trouble (Black)
E7	10	Phenomenon	Display	Lamp Message
			Details	Shading trouble (Black correction) CCD black scan level abnormality when the copy lamp is turned off. When the proper offset setup value is not obtained at turning on the power or CCD shading with SIM 63-2.
			Section	Scanner
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	Defective installation of the flat cable to the CCD unit
			Remedy	Check installation of the flat cable to the CCD unit.
			Note	
		Case 2	Trouble position/Cause	CCD unit abnormality
			Remedy	CCD unit check
			Note	
		Case 3	Trouble position/ Cause	Scanner PWB abnormality
			Remedy	Scanner PWB check
			Note	

Main code	Sub code	Title		ing trouble (White all pixel adjustment)
E7	11	Phenomenon	Display	Lamp
				Message
			Details	Shading trouble (White correction all pixel adjustment) The CCD white reference plate scan level
				abnormality when lighting the copy lamp When the proper gain setup value is not
				obtained at turning on the power or CCD shading with SIM 63-2.
			Section	Scanner
			Operation	
			mode	
			Note	
		Case 1	Trouble	Mirror, lens, reference
			position/	white plate dirt
			Cause Remedy	Clean the mirror, the lens,
			nemedy	and the reference white plate.
			Note	
		Case 2	Trouble position/ Cause	Copy lamp lighting abnormality
			Remedy	Check the light quantity and lighting of the copy lamp. (SIM 5-3)
			Note	
		Case 3	Trouble position/Cause	Defective installation of the flat cable to the CCD unit
				Improper installation of the CCD unit CCD unit abnormality
			Remedy	CCD unit check
			Note	
		Case 4	Trouble position/	Scanner PWB abnormality
			Remedy	Scanner PWB check
			Note	Coalinoi i 11D Ollook
			. 1010	

Main code	Sub code	Title	CCD shading trouble (White correction center adjustment)	
E 7	12	Phenomenon	Display	Lamp Message
			Details	Shading trouble (White correction center adjustment) The CCD white reference plate scan level abnormality when lighting the copy lamp When the proper gain setup value is not obtained at turning on the power or CCD shading with SIM 63-2.
			Section	Scanner
			Operation mode	
			Note	

Main code	Sub code	Title		ing trouble (White center adjustment)
E7	12	Case 1	Trouble position/	Mirror, lens, reference white plate dirt
			Remedy	Clean the mirror, the lens, and the reference white plate.
			Note	
		Case 2	Trouble position/Cause	Copy lamp lighting abnormality
			Remedy	Check the light quantity and lighting of the copy lamp. (SIM 5-3)
			Note	
		Case 3	Trouble position/ Cause	Defective installation of the flat cable to the CCD unit Improper installation of
				the CCD unit
				CCD unit abnormality
			Remedy	CCD unit check
			Note	
		Case 4	Trouble position/	Scanner PWB abnormality
			Remedy	Scanner PWB check
			Note	

Main code	Sub code	Title	CCD comm	nunication trouble
E7	14	Phenomenon	Display	Lamp
				Message
			Details	CCD communication
				trouble
				Communication trouble
				between the scanner
				PWB and the CCD-ASIC.
				(Clock synchronization) When an error occurs in
				the access check to the
				CCD-ASIC executed at
				turning on the power.
			Section	Scanner
			Operation	
			mode	
			Note	
		Case 1	Trouble	Defective installation of
			position/	the harness connected to
			Cause	the CCD unit
			Remedy	Check the harness
				connected to the CCD unit.
			Note	uiii.
		Case 2	Trouble	CCD unit abnormality
		Case 2	position/	CCD unit abnormality
			Cause	
			Remedy	CCD unit check
			Note	
		Case 3	Trouble	Scanner PWB
			position/	abnormality
			Cause	
			Remedy	Scanner PWB check
			Note	

Main code	Sub code	Title	LSU connection trouble	
E7	50	Phenomenon	Display	Lamp
				Message
			Details	LSU connection trouble The LSU connected does not conform to the machine specifications. When the combination of the pattern of an input port on the PCU and the pattern of a port connected to the LSU is not proper.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble position/ Cause	LSU connection trouble
			Remedy	Check connection between the PCU and the LSU and the harness.
			Note	
		Case 2	Trouble position/Cause	PCU PWB trouble LSU trouble
			Remedy	Check the LSU. Check the PCU.
			Note	

Main code	Sub code	Title	Incompatibility check (Engine (PCU) detection)	
E7	55	Phenomenon	Display	Lamp
	56			Message
	57		Details	Incompatibility check trouble An error is detected in the internal incompatibility check in the engine (PCU).
			Section	Engine (PCU)
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause Remedy	PCU PWB trouble or a improper PCU PWB has been installed. Check the PCU PWB.
			Note	

Main code	Sub code	Title	Controller connection trouble	
E7	60	Phenomenon	Display	Lamp
				Message
			Details	Controller connection trouble Incompatibility trouble between the controller and the engine
			Section	Controller
			Operation	
			mode	
			Note	

Main code	Sub code	Title	Controller	connection trouble
E7	60	Case 1	Trouble position/ Cause Remedy	Improper combination of the controller PWB and the engine Check the controller PWB. Check combination of the controller PWB and the engine.
			Note	

Main code	Sub code	Title	Incompatibility check (MFP controller detection)	
E7	65	Phenomenon	Display	Lamp
	66			Message
	67		Details	Incompatibility check trouble An error is detected in the internal incompatibility check in
				the MFP control PWB.
			Section	MFP control PWB
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	MFP control PWB trouble or a improper MFP control PWB has been installed.
			Remedy	Check the MFP control PWB and repair it as required.
			Note	

Main code	Sub code	Title	Communication trouble between the MFP control and the scanner (MFP control detection)	
E7	80	Phenomenon	Display	Lamp Message
			Details	Communication trouble between the MFP control and the scanner (MFP control detection) Communication establishment error/ framing/ parity/ protocol error Follows the communication protocol specifications. Communication error, timing abnormality of the communication data and the communication signal line
			Section	Controller
			Operation mode	
			Note	

Main code	Sub code	Title	Communication trouble between the MFP control and the scanner (MFP control detection)	
E7	80	Case 1	Trouble position/ Cause	Defective connection of the slave unit PWB connector Defective harness between the slave unit PWB and the MFP control PWB Slave unit PWB mother board connector pin breakage
			Remedy	Check connection of the connector between the slave unit PWB and the MFP control PWB and the harness. Check grounding of the machine.
			Note	

Main	Sub	Title		ol-PCU communication
code	code	Title	trouble (M	FP control detection)
E7	90	Phenomenon	Display	Lamp
				Message
			Details	MFP control-PCU
				communication trouble
				(MFP control detection)
				Communication
				establishment error/
				framing/ parity/ protocol
				error
				Follows the
				communication protocol
				specifications.
				Communication error,
				timing abnormality of the
				communication data and
				the communication signal line
			0 11	
			Section	Controller
			Operation	
			mode	
			Note	5.00
		Case 1	Trouble	Defective connection of
			position/ Cause	the slave unit PWB
			Cause	connector Defective harness
				between the slave unit
				PWB and the MFP
				control PWB
				Slave unit PWB mother
				board connector pin
				breakage
			Remedy	Check connection of the
				connector between the
				slave unit PWB and the
				MFP control PWB and
				the harness.
				Check grounding of the
				machine.
			Note	

Main code	Sub code	Title	Auto deve (Overtone	loper adjustment trouble r error)
EE	EL	Phenomenon	Display	Lamp
				Message
			Details	Auto developer
				adjustment trouble
				(Overtoner error)
				When executing the
				automatic development
				adjustment, toner
				concentration sensor
				output level is 1.5V or
			0 .:	below.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	Toner density sensor
			position/	trouble
			Cause	Charging voltage and
				developing voltage trouble
				Toner density trouble
				Developing unit trouble
				PCU PWB trouble
			Remedy	Use SIM 25-2 to perform
				the automatic developing
				adjustment.
			Note	-

Main code	Sub code	Title	Auto developer adjustment trouble (Undertoner error)	
EE	EU	Phenomenon	Display	Lamp
				Message
			Details	Auto developer
				adjustment trouble
				(Undertoner error)
				When executing the
				automatic development
				adjustment, toner
				concentration sensor
				output level is 3.5V or
				above.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	Toner density sensor
			position/	trouble
			Cause	Charging voltage and
				developing voltage
				trouble
				Toner density trouble
				Developing unit trouble PCU PWB trouble
			Remedy	
			nemeuy	Use SIM 25-2 to perform the automatic developing
				adjustment.
			Note	

Main code	Sub code	Title	Finisher co	ommunication trouble
F1	00	Phenomenon	Display	Lamp
				Message
			Details	Finisher communication trouble An error in the communication line test after turning on the power
				or canceling the simulation Communication error with
				the finisher Follows the
				communication protocol specifications.
				Communication error,
				timing abnormality of the
				communication data and the communication signal line
			Section	Engine
			Operation mode	Liigiilo
			Note	
		Case 1	Trouble	Improper connection or
			position/	disconnection of the
			Cause	connector or harness between the machine and the finisher
			Remedy	Check the connector and the harness in the communication line.
			Note	
		Case 2	Trouble position/	Finisher control PWB trouble Control PWB (PCU) trouble
			Remedy	Replace the finisher control PWB or the PCU PWB.
			Note	
		Case 3	Trouble position/ Cause	Malfunction caused by noises
			Remedy	Canceled by turning ON/ OFF the power.
			Note	

Main code	Sub	Title	Finisher tr	ansport motor tv
F1	02	Phenomenon	Display	Lamp
	11 02		. ,	Message
			Details	Finisher transport motor abnormality When opening the shutter unit, the opening process is not completed in 1sec. When closing the shutter unit, the closing process is not completed in 1sec. When the tray lift unit is operating in the dangerous area, "Not closed state" of the shutter close sensor is detected.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Motor lock Motor RPM abnormality Overcurrent to the motor Finisher control PWB trouble
			Remedy	Use SIM 3-3 to check the transport motor operation.
			Note	, , , , , , , , , , , , , , , , , , , ,

Main code	Sub code	Title	Finisher o	scillation motor trouble
F1	03	Phenomenon	Display	Lamp
				Message
			Details	Finisher oscillation motor
				trouble
				When opening the
				oscillation unit, the
				opening process is not
				completed in 1sec.
				When closing the
				oscillation unit, the
				closing operation is not
				completed in 3sec.
				When the tray lift unit is
				operating in the
				dangerous area, "Not
				closed state" of the
				oscillation unit close
				sensor is detected.
				When controlling the
				oscillation unit speed, the
				encoder input cannot be
				detected within a
				specified time.
			Section	Finisher
			Operation	
			mode	
			Note	
		Case 1	Trouble	Motor lock
			position/	Motor RPM abnormality
			Cause	Overcurrent to the motor
				Finisher control PWB
				trouble
			Remedy	Use SIM 3-3 to check the motor operation.
			Note	

Main code	Sub code	Title	Finisher st	taple shift motor trouble
F1	08	Phenomenon	Display	Lamp
				Message
			Details	Finisher staple shift motor trouble When the stapler shift motor does not move from the hope position in 4sec when operating the stapler shift motor. When the stapler shift motor does not return to the home position in 4sec when operating the stapler shift motor.
			Section	Finisher
			Operation mode	
		Case 1	Trouble position/	Motor lock Motor RPM abnormality Overcurrent to the motor Finisher control PWB trouble
			Remedy	Use SIM 3-3 to check the staple shift motor operation.
			Note	

Main code	Sub code	Title	Finisher lo	ad capacity sensor
F1	09	Phenomenon	Display	Lamp
				Message
			Details	Finisher load capacity sensor trouble When the received data on performing the sensor test at turning on the power are outside the specified range. When the detected data on calculation of the correction value are outside the specified range.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Sensor breakage Harness disconnection Console finisher control PWB trouble
			Remedy	Use SIM 3-2 to check the sensor operation.
			Note	

Main code	Sub code	Title	Finisher/s	taple motor trouble
F1	10	Phenomenon	Display	Lamp
				Message
			Details	Finisher/staple motor
				trouble
				When the staple unit
				does not shift from HP
				within 0.5sec in staple process.
				When a stapler jam is
				detected and the staple
				motor is reversed, the
				staple motor does not
				return to HP in 0.5sec.
			Section	Finisher
			Operation	
			mode	
			Note	
		Case 1	Trouble	Motor lock
			position/ Cause	Motor RPM abnormality
			Cause	Overcurrent to the motor Finisher control PWB
				trouble
			Remedy	Use SIM 3-3 to check the
				staple shift motor
				operation.
			Note	

Main code	Sub code	Title	Finisher/p	usher motor trouble
F1	11	Phenomenon	Display	Lamp
				Message
			Details	Finisher/pusher motor
				trouble
				When learning the paper
				exit roller speed, the
				process is not completed in 10sec.
				When controlling the
				paper exit roller speed,
				an encoder input is not
				detected in a specified
				time.
			Section	Finisher
			Operation	
			mode	
			Note	
		Case 1	Trouble	Motor lock
			position/	Motor RPM abnormality
			Cause	Overcurrent to the motor
				Finisher control PWB
				trouble
			Remedy	Use SIM 3-3 to check the
				pusher motor operation
				and the paddle solenoid
				operation, or use SIM 3-2 to check the boomerang
				rotations sensor.
			Note	rotationo ochoon.

Main code	Sub code	Title	Finisher tr	ay lift motor trouble
F1	15	Phenomenon	Display	Lamp
				Message
			Details	Finisher tray lift motor trouble When operating the tray lift unit, the process is not completed in 12sec. When the tray lift unit is lifting, the tray lift unit upper limit sensor ON is detected. When operating the tray lift unit, en encoder input is not detected in 0.2sec.
			Section	Finisher
		Case 1	Operation mode Note	
			Trouble position/	Motor lock Motor RPM abnormality Overcurrent to the motor Finisher control PWB trouble
			Remedy	Use SIM 3-3 to check the elevator motor operation.
			Note	

Main code	Sub code	Title	Finisher/al	lignment motor trouble
F1	19	Phenomenon	Display	Lamp
				Message
			Details	Finisher/alignment motor trouble When operating the alignment motor, it does not move from the home position in 2sec. When operating the alignment motor, it does not return to the home position in 2sec.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Motor lock Motor RPM abnormality Overcurrent to the motor Finisher control PWB trouble
			Remedy	Use SIM 3-3 to check the motor operation.
			Note	

Main code	Sub code	Title	Finisher sa	addle folding sensor
F1	31	Phenomenon	Display	Lamp
				Message
			Details	Finisher saddle folding sensor trouble When the motor rotation speed (linear velocity) at every 200msec falls below the specified level. When moving to the home position, the home position sensor does not turn on within the specified time. When shifting from the home position to the lead edge, the home position sensor does not turn off within the specified time.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Sensor breakage Harness disconnection Console finisher control PWB trouble
			Remedy	Use SIM 3-2 to check the sensor operation.
			Note	

Main code	Sub code	Title	Finisher-satrouble	addle communication
F1	32	Phenomenon	Display	Lamp
				Message
			Details	Communication error between the finisher and the saddle When the motor rotation speed (linear velocity) at every 200msec falls below the specified level. When moving to the home position, the home position sensor does not turn on within the specified time. When shifting from the home position to the lead edge, the home position sensor does not turn off
			Section	within the specified time.
			Operation	
			mode	
			Note	

Main code	Sub code	Title	Finisher-satrouble	addle communication
F1	32	Case 1	Trouble position/ Cause	Improper connection or disconnection of the connector and the harness between the finisher and the saddle unit.
			Remedy	Check the connector and the harness in the communication line.
			Note	
		Case 2	Trouble position/ Cause	Finisher control PWB trouble Control PWB (PCU) trouble
			Remedy	Replace the finisher control PWB.
			Note	
		Case 3	Trouble position/Cause	Malfunction caused by noises
			Remedy	Canceled by turning ON/ OFF the power.
			Note	

Main code	Sub code	Title	Finisher/p	unch shift motor trouble
F1	33	Phenomenon	Display	Lamp Message
			Details	Finisher/punch shift motor trouble When operating the punch shift motor, it does not move from the home position in 4sec. When operating the punch shift motor, it does not return to the home position in 4sec.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Motor lock Motor RPM abnormality Overcurrent to the motor Finisher control PWB trouble
			Remedy	Use SIM 3-3 to check the motor operation.
			Note	

Main code	Sub code	Title	Finisher/p	unch motor trouble
F1	34	Phenomenon	Display	Lamp
			Message	
			Details	Finisher/punch motor
				trouble
				When learning the punch
				unit, it does not complete
				normally and does not
				return to the home position.
				When executing
				punching, it does not shift
				from the home position in
				0.2sec, or it overruns to
				go into non-HP state.
				When operating the
				punch unit, the encoder
				input cannot be detected
			0 11	within 0.1sec.
			Section	Finisher
			Operation	
			mode	
		Case 1	Note	Mataulaali
		Case I	Trouble position/	Motor lock Motor RPM abnormality
			Cause	Overcurrent to the motor
			Cause	Finisher control PWB
				trouble
			Remedy	Use SIM 3-3 to check the
			,	motor operation.
			Note	

Main code	Sub code	Title	Finisher/ backup RAM trouble	
F1	37	Phenomenon	Display	Lamp
				Message
			Details	Finisher/ backup RAM
				trouble
				When backup RAM data
				check sum is NG when
				turning on the power.
			Section	Finisher
		Operation		
			mode	
		Case 1	Note	
			Trouble	Finisher control PWB
			position/	trouble
			Cause	Malfunction caused by
				noises
			Remedy	Replace the finisher
				control PWB.
			Note	

Main code	Sub code	Title	Finisher/punch backup ROM trouble	
F1	38	Phenomenon	Display	Lamp
				Message
			Details	Finisher/punch backup
				ROM trouble
				Punch unit backup RAM
				data are garbled.
			Section	Finisher
			Operation	
			mode	
			Note	
		Case 1	Trouble	Punch control PWB
			position/	trouble
			Cause	Malfunction caused by
				noises
			Remedy	Replace the punch
				control PWB.
			Note	

Main	Sub	Title Finisher/saddle positioning p			
code	code		motor trouble		
F1	41	Phenomenon	Display	Lamp	
				Message	
			Details	Finisher/saddle	
				positioning plate motor	
				trouble	
				The positioning motor HP	
				sensor does not turn on	
				within 1.33sec after	
				starting the motor.	
				The positioning motor HP	
				sensor does not turn off	
				within 1sec after starting	
				the motor.	
			Section	Finisher	
			Operation		
			mode		
			Note		
		Case 1	Trouble	Finisher control PWB	
			position/	trouble	
			Cause	Malfunction caused by	
				noises	
			Remedy	Replace the finisher	
				control PWB.	
			Note		

Main code	Sub code	Title	Finisher/satrouble	addle guide motor
F1	42	Phenomenon	Display	Lamp
				Message
			Details	Finisher/saddle guide motor trouble It does not return to the home position within the specified time from starting the guide motor. The HP sensor does not turn off within the specified time when shifting from the home position to the specified
				position.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Finisher control PWB trouble Malfunction caused by noises
			Remedy	Replace the finisher control PWB.
			Note	

Main code	Sub code	Title	Finisher/satrouble	addle alignment motor
F1	43	Phenomenon	Display	Lamp
				Message
			Details	Finisher/saddle alignment motor trouble When shifting to the home position, the home position sensor does not turn on. The HP sensor does not turn off within the specified time when shifting from the home position to the specified position.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Finisher control PWB trouble Malfunction caused by noises
			Remedy	Replace the finisher control PWB.
			Note	

Main code	Sub code	Title	Finisher/sa motor trou	addle bottom staple ible
F1	44	Phenomenon	Display	Lamp
				Message
			Details	Finisher/saddle bottom staple motor trouble The home position sensor does not turn off within the specified time after normal starting of the motor. The home positions sensor does not turn on within the specified time
				after reverse starting of the motor in recovery.
			Section	Finisher
			Operation mode	Tillianoi
			Note	
		Case 1	Trouble position/	Finisher control PWB trouble Malfunction caused by noises
			Remedy	Replace the finisher control PWB.
			Note	

Main code	Sub code	Title	Finisher/satrouble	addle front staple motor
F1	45	Phenomenon	Display	Lamp
				Message
			Details	Finisher/saddle front staple motor trouble The home position sensor does not turn off within the specified time after normal starting of the motor. The home positions sensor does not turn on within the specified time after reverse starting of the motor in recovery.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Finisher control PWB trouble Malfunction caused by noises
			Remedy	Replace the finisher control PWB.
			Note	

Main code	Sub code	Title	Finisher/sa	addle push motor trouble
F1	46	Phenomenon	Display	Lamp
				Message
			Details	Finisher/saddle push motor trouble When moving to the home position, the home position sensor does not turn on within the specified time. The push lead edge sensor does not turn on within the specified time after shifting from the home position. When shifting from the home position to the lead edge, the home position sensor does not turn off within the specified time. The lead edge sensor does not turn off within the specified time when shifting from the lead edge position to the home position. The motor RPM at every 50msec falls below the specified level. The lead edge sensor does not turn on within the specified time when specified level.
				shifting from the home position to the lead edge position.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Finisher control PWB trouble Malfunction caused by noises
			Remedy	Replace the finisher control PWB.
			Note	

Main code	Sub code	Title	Finisher/saddle sensor connector connection trouble	
F1	51	Phenomenon	Display	Lamp
				Message
			Details	Finisher/saddle sensor connector connection trouble The connector connection input of the guide HP sensor is off. The connector connection detection input of the push lead edge sensor is off.
			Section	Finisher
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Finisher control PWB trouble Malfunction caused by noises
			Remedy	Replace the finisher control PWB.
			Note	

Main code	Sub code	Title	Finisher/m	icro switch trouble
F1	52	Phenomenon	Display	Lamp
				Message
			Details	Finisher/micro switch
				trouble
				With all cover PI (photo
				sensor) ON, the transport
				cover MS is off fort 1sec
				continuously from starting copying.
				With all cover PI (photo
				sensor) ON, the front
				cover MS is off fort 1sec
				continuously from starting
				copying.
				With all cover PI (photo
				sensor) ON, the paper
				exit cover MS is off fort
				1sec continuously from
			Section	starting copying. Finisher
				rinisher
			Operation mode	
			Note	
		Case 1	Trouble	Finisher control PWB
		Case I	position/	trouble
			Cause	Malfunction caused by
				noises
			Remedy	Replace the finisher
			-	control PWB.
			Note	

Main code	Sub code	Title	Finisher-ir trouble	nserter communication
F1	60	Phenomenon	Display	Lamp
				Message
			Details	Finisher/inserter
				communication trouble
			Section	Inserter
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Improper connection or disconnection of the connector and the harness between the finisher and the inserter unit
			Remedy	Check the connector and the harness in the communication line.
			Note	
		Case 2	Trouble position/ Cause	Finisher control PWB trouble Control PWB (PCU) trouble
			Remedy	Replace the finisher control PWB.
			Note	
		Case 3	Trouble position/	Malfunction caused by noises
			Remedy	Canceled by turning ON/ OFF the power.
			Note	

Main code	Sub code	Title	Inserter/El	EPROM trouble
F1	61	Phenomenon	Display	Lamp
				Message
			Details	Inserter/EEPROM trouble
				Data read failure on
				turning on the power
			Section	Inserter
			Operation mode	
			Note	
		Case 1	Trouble	EEPROM trouble
			position/	Control circuit runaway
			Cause	due to noises
			Remedy	Check that the EEPROM is properly installed.
				Replace the inserter
				PWB.
			Note	
		Case 2	Trouble	Inserter PWB EEPROM
			position/	access circuit trouble
			Cause	
			Remedy	Replace the inserter PWB.
			Note	

Main code	Sub code	Title	Inserter/re	verse sensor trouble
F1	62	Phenomenon	Display	Lamp
				Message
			Details	Inserter/reverse sensor trouble
				Auto adjustment failure on turning on the power
			Section	Inserter
			Operation	
			mode	
			Note	
		Case 1	Trouble	Auto adjustment failure
			position/	on turning on the power
			Cause	Sensor breakage
				Harness disconnection
				Inserter PWB trouble
			Remedy	Use SIM 3-2 to check the
				sensor operation.
			Note	

Main code	Sub code	Title	Toner con	trol sensor open
F2	00	Phenomenon	Display	Lamp
				Message
			Details	Toner control sensor
				output open
				After completion of auto
				development adjustment, during process operation,
				the toner sensor output is
				detected as 0.5V or less
				or 4.5V or above three
				times.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	Connector harness
			position/	trouble
			Cause	Connector not connected.
			Remedy	Check connection of the
				toner control sensor.
				Check connection of the connector harness to the
				main PWB.
				Check for disconnection
				of the harness.
			Note	

Main code	Sub code	Title	Toner sup	ply abnormality
F2	02	Phenomenon	Display	Lamp
				Message
			Details	Toner supply abnormality Toner remains in the toner bottle when
				undertoner is detected by
				the toner concentration
				sensor in the developing unit.
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble	Toner concentration
			position/	sensor trouble
			Cause	Toner remaining quantity sensor trouble
				Connector harness
				trouble for the above
				sensors.
			Remedy	Check connector of
				hopper unit toner motor (TM1)
				Check connector of toner
				bottle toner motor (TM2)
				Check connection of the connector harnesses to
				the main PWB.
				Check broken harness for
				above connections.
				Check output of the toner concentration sensor
				(SIM25-1)
				Check output of the toner
				remaining quantity sensor
				(SIM10-2)
			Note	

Main code	Sub code	Title	Improper o	cartridge (Life cycle error,
F2	04	Phenomenon	Display	Lamp
				Message
			Details	An improper toner bottle is inserted. CRUM (IC chip trouble)
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	IC chip trouble
			position/	Improper cartridge
			Cause	
			Remedy	Insert a proper cartridge.
			Note	

Main code	Sub code	Title	CRUM error	
F2	05	Phenomenon	Display	Lamp
				Message
			Details	Communication with the
				IC chip cannot be made.
				Data write failure to the
				CRUM or data read
				failure from the CRUM
				occurs 3 times
				continuously except for
				toner cartridge installation detection.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	IC chip trouble
			position/	Improper cartridge
			Cause	
			Remedy	Insert a proper cartridge.
			Note	

Main code	Sub code	Title	Process control trouble (Photoconductor surface reflection rate abnormality)		
F2	31	Phenomenon	Display	Lamp	
				Message	
			Details	Process control trouble (Photoconductor surface reflection rate abnormality) Before starting process control, the drum surface is read by the image density sensor to make the sensor gain adjustment so that the output is fixed to a certain level. Though the sensor gain is changed, the output is not fixed to a certain level.	
			Section	Engine	
			Operation mode	J.	
			Note		
		Case 1	Trouble position/Cause	Image density sensor trouble	
			Remedy	Use SIM 44-02 to perform the process control sensor gain adjustment.	
			Note		
		Case 2	Trouble position/	Improper connection of the harness between the PCU PWB and the image density sensor	
			Remedy	If "Error" is displayed, it may be considered as a breakdown. Check the sensor and the harness.	
			Note		
		Case 3	Trouble position/ Cause	The image density sensor is dirty. OPC drum cleaning trouble	
			Remedy	If the adjustment is completed, check the drum surface conditions.	
			Note		

Main code	Sub code	Title		ontrol trouble (Drum can trouble)
F2	32	Phenomenon	Display	Lamp
				Message
			Details	Process control trouble (Drum marking scan trouble) The drum marking size, density, or the number of
				units is improper.
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	Drum marking sensor trouble
			Remedy	Use SIM 44-02 to perform the process control sensor gain adjustment.
			Note	Ŭ ,
		Case 2	Trouble position/ Cause	Improper connection of the harness between the PCU PWB and the drum marking sensor
			Remedy	If "Error" is displayed, it may be considered as a breakdown. Check the sensor and the harness.
			Note	
		Case 3	Trouble position/ Cause	The drum marking sensor is dirty. OPC drum cleaning trouble
			Remedy	If the adjustment is completed, check the drum surface conditions.
			Note	

Main code	Sub code	Title	Drum marl	king sensor gain t error
F2	37	Phenomenon	Display	Lamp
				Message
			Details	Drum marking sensor gain adjustment error Before starting process control, the drum marking area surface is read by the sensor to make the sensor gain adjustment so that the output is fixed to a certain level. Though the sensor gain is changed, the output is not fixed to a certain level.
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble position/	Drum marking sensor trouble
			Remedy	Use SIM 44-02 to perform the process control sensor gain adjustment.
			Note	

Main code	Sub code	Title	Drum marking sensor gain adjustment error	
F2	37	Case 2	Trouble position/ Cause	Improper connection of the harness between the PCU PWB and the drum marking sensor
			Remedy	If "Error" is displayed, it may be considered as a breakdown. Check the sensor and the harness.
			Note	
		Case 3	Trouble position/ Cause	The drum marking sensor is dirty. OPC drum cleaning trouble
			Remedy	If the adjustment is completed, check the drum surface conditions.
			Note	

Main code	Sub code	Title	Process th	nermistor breakdown
F2	39	Phenomenon	Display	Lamp
				Message
			Details	Process thermistor
				breakdown
				When the process
				thermistor detection,
				3.03V or above, or 0.28V
				or below is detected
				once.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	Improper connection of
			position/	the process thermistor
			Cause	harness.
			Remedy	Check connection of the
				connector and the
				harness of the process thermistor.
			Note	thermstor.
		Case 2	Trouble	Durana and the auraintau
		Case 2	position/	Process thermistor trouble
			Cause	trouble
			Remedy	Replace the process
			riemedy	thermistor.
			Note	
		Case 3	Trouble	PCU PWB trouble
		2.000	position/	
			Cause	
			Remedy	Check the PCU PWB.
			Note	

Main code	Sub code	Title	Developin	g thermistor breakdown
F2	46	Phenomenon	Display	Lamp
				Message
			Details	Developing thermistor
				open or short.
				Three successive values
				of 244 or above, or values
				of 20 or below, are
				detected at the
				developing thermistor.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	Developing thermistor
			position/	harness connection
			Cause	trouble
			Remedy	Check connection of the
				connector and the
				harness of the developing
				thermistor.
			Note	
		Case 2	Trouble	Developing thermistor
			position/	trouble
			Cause	
			Remedy	Check the developing
			Nete	thermistor
		Case 3	Note Trouble	PCU PWB trouble
		Case 3		FCO PWB (fouble
			position/ Cause	
				Check the PCU PWB.
			Remedy Note	CHECK THE FOU FIVE.
			INOTE	

	Main	Sub	Title		g humidity sensor break
	code	code		down	-
	F2	48	Phenomenon	Display	Lamp
					Message
1				Details	Developing humidity
					sensor open or short.
					A value of greater than or
					equal to 255 or above, or
					value of 7 or below, is
					detected at the developing
				0 11	humidity sensor.
				Section	Engine
				Operation	
				mode Note	
			01		Barrier to the state of
			Case 1	Trouble	Developing humidity sensor harness
				position/ Cause	connection trouble
					Check connection of the
				Remedy	connector and the
					harness of the developing
					humidity sensor.
				Note	Training concer.
			Case 2	Trouble	Developing humidity
			00002	position/	sensor trouble
				Cause	
				Remedy	Check the developing
				,	humidity sensor
				Note	•
			Case 3	Trouble	PCU PWB trouble
				position/	
				Cause	
				Remedy	Check the PCU PWB.
				Note	

Main code	Sub code	Title	Machine tr	ay 1 lift-up trouble
F3	12	Phenomenon	Display	Lamp
				Message
			Details	Machine tray 1 lift-up trouble PED does not turn on within the specified time. LUD does not turn on within the specified time. The trouble occurs 3 times continuously that the upper limit sensor does not turn on by lift-up operation for 21sec when inserting a tray or for 2sec when printing. For the first and the second times, guide the user to pull out the tray in case of a tray size error.
			Section	Engine
			Operation mode	Lingino
			Note	
		Case 1	Trouble position/ Cause	PED, LUD trouble No. 1 tray lift-up motor trouble Improper connection of the harness of the PCU PWB, the lift-up unit, and the paper feed unit
			Remedy	Check the harness and connector of PED and LUD Lift-up trouble unit check. Use SIM 15 to cancel the trouble.
			Note	

Main	Sub			
		Title	Machine tr	ay 2 lift-up trouble
code	code			•
F3	22	Phenomenon	Display	Lamp
				Message
			Details	Machine tray 2 lift-up
				trouble
				MCPED does not turn on
				within the specified time.
				MCLUD does not turn on
				within the specified time.
				The trouble occurs 3
				times continuously that
				the upper limit sensor
				does not turn on by lift-up
				operation for 10sec when
				inserting a tray or for
				2sec when printing.
				For the first and the
				second times, guide the
				user to pull out the tray in
				case of a tray size error.
			Section	Engine
			Operation	
			mode	
			Note	

Main code	Sub code	Title	Machine tray 2 lift-up trouble	
F3	22	Case 1	Trouble position/ Cause	MCPED, MCLUD trouble No. 2 tray lift-up motor trouble Improper connection of the harness of the PCU PWB, the lift-up unit, and the paper feed unit
			Remedy	Check the harness and the connector of MCPED and MCLUD. Lift-up trouble unit check. Use SIM 15 to cancel the trouble.
			Note	

Main code	Sub code	Title	Machine tr	ay 3 lift-up trouble
F3	32	Phenomenon	Display	Lamp
				Message
			Details	Machine tray 3 lift-up trouble MCPED does not turn on within the specified time. MCLUD does not turn on within the specified time. The trouble occurs 3 times continuously that the upper limit sensor does not turn on by lift-up operation for 10sec when inserting a tray or for 2sec when printing. For the first and the second times, guide the user to pull out the tray in case of a tray size error.
			Section	Engine
			Operation mode	3
			Note	
		Case 1	Trouble position/ Cause	MCPED, MCLUD trouble No. 3 tray lift-up motor trouble Improper connection of the harness of the PCU PWB, the lift-up unit, and the paper feed unit
			Remedy	Check the harness and the connector of MCPED and MCLUD. Lift-up trouble unit check
			Note	

Main code	Sub code	Title	Machine tr	ay 4 lift-up trouble
F3	42	Phenomenon	Display	Lamp
			Details	Message Machine tray 4 lift-up trouble MCPED does not turn on within the specified time. MCLUD does not turn on within the specified time. The trouble occurs 3 times continuously that the upper limit sensor does not turn on by lift-up operation for 10sec when inserting a tray or for 2sec when printing. For the first and the second times, guide the user to pull out the tray in case of a tray size error.
			Section Operation	Engine
			mode	
			Note	
		Case 1	Trouble position/ Cause	MCPED, MCLUD trouble No. 4 tray lift-up motor trouble Improper connection of the harness of the PCU PWB, the lift-up unit, and the paper feed unit
			Remedy	Check the harness and the connector of MCPED and MCLUD. Lift-up trouble unit check
			Note	

Main code	Sub code	Title	38V voltag	je trouble
F4	38	Phenomenon	Display	Lamp
			Details	Message 38V voltage falls or rises.
			Section	Engine
			Operation mode	Liigiiie
			Note	
		Case 1	Trouble position/	Improper connection or disconnection of the connector and the
			Remedy	Check the connector and the harness of the power line.
			Note	
		Case 2	Trouble position/Cause	PCU PWB trouble Power unit trouble
			Remedy	Check 38V power source in the power unit and the PCU PWB.
			Note	

Main code	Sub code	Title	MFP control-FAX communication trouble (MFP control detection)	
F6	00	Phenomenon	Display	Lamp
				Message
			Details	MFP control-FAX
				communication trouble (MFP control detection) The booting sequence by the command line (9600bps, serial) is not completed normally. Communication establishment error/ framing/ parity/ protocol
				error
			Section	FAX
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Defective connection of the slave unit PWB connector Defective harness between the slave unit PWB and the MFP control PWB Slave unit PWB mother board connector pin breakage
			Remedy	Use SIM 25-2 to perform the automatic developing adjustment. Check connection of the connector between the slave unit PWB and the MFP control PWB and the harness.
			Note	Check grounding of the machine.
		Case 2	Trouble position/	Slave unit ROM trouble/ no ROM/ Reversed insertion of ROM/ ROM pin breakage
			Remedy	Check the ROM on the slave unit PWB.
			Note	

Main code	Sub code	Title		nsion Flash memory FP control detection)
F6	01	Phenomenon	Display	Lamp
				Message
			Details	FAX expansion Flash
				memory trouble (MFP
				control detection)
				The expansion flash
				memory inserted to the
				FAX I/F PWB could not
				be cleared.
			Section	FAX
			Operation	
			mode	
			Note	
		Case 1	Trouble	Initialization of the FAX
			position/	expansion memory failed,
			Cause	which is required for a
				new memory that is
				inserted to the PWB.
			Remedy	Use SIM 66-10 to clear
				the expansion flash
				memory.
			Note	

Main code	Sub code	Title	FAX mode	m operation abnormality
F6	04	Phenomenon	Display	Lamp
				Message
			Details	FAX modem operation
				abnormality
				The initializing process of
				the modem chip in the
				FAX PWB is not
				completed normally.
			Section	FAX
			Operation	
			mode	
			Note	
		Case 1	Trouble	SW101 in the FAX PWB
			position/	tries to perform normal
			Cause	operation on the boot side.
			Remedy	Set SW101 on the FAX
				PWB to other than the
				boot side, and turn on the
				power again.
			Note	
		Case 2	Trouble	FAX PWB modem chip
			position/	operation trouble
			Cause	
			Remedy	Replace the FAX PWB.
			Note	

Main code	Sub code	Title	FAX write	protect cancel
F6	20	Phenomenon	Display	Lamp
				Message
			Details	The write protect jumper
				of the FAX interface PWB
				is released.
			Section	FAX
			Operation	
			mode	
			Note	
		Case 1	Trouble	The FAX write protect pin
			position/	is set to Write Enable.
			Cause	
			Remedy	Check the write protect
				pin in the FAX interface PWB.
			Note	
		Case 2	Trouble	FAX interface PWB
			position/	trouble
			Cause	FAX PWB trouble
			Remedy	Replace the FAX PWB.
				Replace the FAX
				interface PWB.
			Note	

Main code	Sub code	Title	Abnormal combination of the TEL/ LIU PWB and the FAX soft switch		
F6	21	Phenomenon	Display	Lamp	
				Message	
			Details	Combination error of TEL/ LIU PWB and software If the destination of the installed TEL/LIU PWB differs from that of the FAX soft switch, it is judged as an error.	
			Section	FAX	
			Operation mode		
			Note		
		Case 1	Trouble position/ Cause	The destination of the installed TEL/LIU PWB differs. The FAX PWB information (soft switch) differs.	
			Remedy	Check the destination of the TEL/LIU PWB. Check the FAX PWB information (soft switch).	
			Note		
		Case 2	Trouble position/	TEL/LIU PWB trouble	
			Remedy	Replace the TEL/LIU PWB.	
			Note		

Main code	Sub code	Title	FAX-BOX	incompatibility trouble
F6	97	Phenomenon	Display	Lamp
				Message
			Details	The FAX-BOX PWB is
				not one for the AR-FX8.
				(FAX detection)
				If the FAX-BOX modem
				controller PWB
				information (hard
				detection) is not for the
				AR-FX8, it is judged as
			0 11	an error.
			Section	FAX
			Operation mode	
			Note	
		0 1		5 " 547 507
		Case 1	Trouble	Because the FAX-BOX modem controller PWB
			position/ Cause	information (hard
			Cause	detection) is not for the
				AR-FX8. (The modem
				controller PWB for the
				AR-FX5 or the AR-FX6 is
				used.)
			Remedy	Check the FAX-BOX
				modem controller PWB.
				Replace it with a modem
				controller PWB for the
				AR-FX8.
			Note	

Main code	Sub code	Title	Combination error of the FAX-BOX destination information and the machine destination information		
F6	98	Phenomenon	Display	Lamp	
				Message	
			Details	Combination error of the FAX-BOX destination information and the machine destination information When the destination information stored in the FAX-BOX EEPROM is compared with that of the machine, and if the combination is improper, it is judged as an error.	
			Section	FAX	
			Operation		
			mode		
			Note		
		Case 1	Trouble position/ Cause	Because of improper combination between the destination information stored in the EEPROM on the FAX-BOX PWB and that of the machine (set with SIM 26-6).	
			Remedy	Check the destination of the FAX-BOX. Check the machine destination with SIM 26-6. Use a proper combination of the machine and the FAX-BOX.	
			Note		

Main code	Sub code	Title	FAX board error	EEPROM read/write
F7	01	Phenomenon	Display	Lamp
				Message
			Details	FAX board EEPROM
				read/write error
				ACK from the EEPROM
				cannot be checked.
			Section	FAX
			Operation	
			mode	
			Note	
		Case 1	Trouble	EEPROM trouble
			position/	FAX PWB EEPROM
			Cause	access circuit trouble
			Remedy	Replace the EEPROM.
				Re-setup the soft SW.
			Note	

A	Main code	Sub code	Title	PRT centre	o port check error
	F9	02	Phenomenon	Display	Lamp
					Message
				Details	PRT centro port check
					error
				Section	Controller
				Operation	
				mode	
				Note	
			Case 1	Trouble	Centro port trouble
				position/	MFP controll PWB
				Cause	trouble
				Remedy	Replace the MFP controll
					PWB.
				Note	

Main code	Sub code	Title	Thermisto installed	r open/Fusing unit not
H2	00/	Phenomenon	Display	Lamp
	HL1			Message
	01/		Details	Thermistor open (An
	HL2			input voltage of 2.95V or
	02/			above is detected.)
	HL3			Fusing unit not installed
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	Thermistor trouble
			position/	Control PWB trouble
			Cause	Improper connection of
				the fusing section
				connector
				AC power trouble
				Fusing unit not installed
			Remedy	Check the harness and
				the connector between
				the thermistor and the
				control PWB.
				Use SIM 14 to clear the
			Note	self diag display.
			Note	

	Main code	Sub code	Title	Fusing sec trouble	ction high temperature
	Н3	00/	Phenomenon	Display	Lamp
		HL1			Message
1		01/ HL2 02/ HL3		Details	Fusing section high temperature trouble The fusing temperature exceeds 241.5°C. (An input voltage of 0.35V or less is detected.) When fusing temperature control is started and a temperature of 242°C is detected 3 times continuously in sampling of 300 (450) msec interval. (Except for Japan)
				Section	Engine
				Operation mode	J
				Note	
			Case 1	Trouble position/ Cause	Thermistor trouble Control PWB trouble Improper connection of the fusing section connector AC power trouble
				Remedy	Use SIM 5-2 to check flashing of the heater lamp. When the lamp flashes normally. • Check the thermistor and the harness. • Check the thermistor input circuit on the control PWB. When the lamp keeps ON. • Check the AC PWB and the lamp control circuit on the control PWB. Use SIM 14 to cancel the trouble

	Main code	Sub code	Title	Fusing sector	ction low temperature
	H4	00/	Phenomenon	Display	Lamp
		HL1		' '	Message
		01/		Details	Fusing section low
		HL2			temperature trouble
		02/			The set temperature is
		HL3			not reached within the
					specified time (normally 4
					min) after turning on the power relay.
					The heater lamp does not
					turn off in 4 min after
					starting warming up.
I					After completion of
					warming up, when the
					temperature below (*) is
					detected 5 times
					continuously during sampling in the interval of
					300(450) msec (EX
					JAPAN):
					* H4-02/HL3: 80°C (Fixed
					level)
					This temperature is -50°C
					lower than the
					temperature control level of H4-00/HL1, H4-01/
					HL2.
				Section	Engine
				Operation	
				mode	
				Note	
			Case 1	Trouble	Thermistor trouble
				position/ Cause	Heater lamp trouble Control PWB trouble
				Oudoo	Thermostat trouble
					AC power trouble
					Interlock switch
				Remedy	Use SIM 5-2 to check
					flashing of the heater
					lamp.
					When the lamp flashes normally.
					Check the thermistor
					and the harness.
					Check the thermistor
					input circuit on the
					control PWB. When the lamp does not
					turn on.
					Check for
					disconnection of the
					heater lamp or the
					thermostat.
					Check the interlock switch.
					Check the AC PWB
					and the lamp control
					circuit on the control
					PWB.
					Use SIM 14 to cancel the
				Nici	trouble
				Note	

Main code	Sub code	Title		itinuous POD not- AM detection
H5	01	Phenomenon	Display	Lamp
				Message
			Details	5-time continuous POD not-reached JAM detection When POD1 not-reached jam is detected 5 times continuously. POD1 jam counter is backed up and used in a print job after turning on the power. The counter is cleared when POD1 jam does not occur in a job or when the trouble is canceled.
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble position/	The fusing jam is not canceled completely. (Jam paper remains.)
			Remedy	Check for jam paper in the fusing section. (Winding, etc.)
		Case 2	Trouble position/	POD1 sensor trouble, or harness connection trouble
			Remedy	Check the PODC1 sensor harness and installation of the fusing unit.
		Case 3	Trouble position/Cause	Fusing unit installation trouble
			Remedy	Use SIM 14 to cancel the trouble

Main code	Sub code	Title	Scanner fe	eed trouble
L1	00	Phenomenon	Display	Lamp Message
			Details	Scanner feed trouble Scanner feed is not completed within the specified time. When MHP Soft is not detected within 2 sec after shifting the mirror base unit in the feeding direction.
			Section Operation	Scanner
			mode Note	
		Case 1	Trouble position/Cause	Scanner unit trouble The scanner wire is disconnected.
			Remedy	Use SIM 1-1 to check scanning operation.
			Note	

Main code	Sub code	Title	Scanner re	eturn trouble
L3	00	Phenomenon	Display	Lamp
				Message
			Details	Scanner return trouble
				Scanner return is not completed within the
				specified time.
				MHPSon is not detected
				within 10sec after starting
				the mirror base unit in the
				return direction.
			Section	Scanner
			Operation mode	
			Note	
		Case 1	Trouble	Scanner unit trouble
			position/	The scanner wire is
			Cause	disconnected.
			Remedy	Use SIM 1-1 to check
				scanning operation.
			Note	

Main code	Sub code	Title	Main moto	or lock detection
L4	01	Phenomenon	Display	Lamp
				Message
			Details	Main motor lock detection
				Three successive trouble
				signals are detected after
				600 msec from starting
				the main motor.
				No trouble is detected
				after 600msec above.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	Main motor trouble
			position/	
			Cause	Line CIM C d to about the
			Remedy	Use SIM 6-1 to check the
			Niete	main motor operation.
			Note	
		Case 2	Trouble	Improper disconnection
			position/ Cause	of the harness between
			Cause	the PCU PWB and the main motor
				Control circuit trouble
			Domody:	Check the harness and
			Remedy	the connector between
				the PCU PWB and the
				main motor.
			Note	

Main code	Sub code	Title	Drum mot	or lock detection
L4	02 Phenomenon	Display	Lamp	
				Message
			Details	Drum motor lock
				detection
				The motor lock signal is
				detected for 1.5sec
				during rotation of the
				drum motor.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	Drum motor trouble
			position/	
			Cause	
			Remedy	Use SIM 6-1 to check the
				drum motor operation.
		0	Note	
		Case 2	Trouble	Improper connection of
			position/	the harness between the
			Cause	PCU PWB and the drum
				motor
			Damask	Control circuit trouble
			Remedy	Check the harness and the connector of the PCU
				PWB, and the drum
				motor.
			Note	motor.
<u> </u>			14016	

Main code	Sub code	Title	Fusing mo	otor lock detection
L4	03	Phenomenon	Display	Lamp
				Message
			Details	Fusing motor lock
				detection
				Three successive trouble
				signals are detected after
				600 msec from starting
				the fusing motor.
			Section	Engine
			Operation	
			mode	
			Note	
		Case 1	Trouble	Fusing motor trouble
			position/ Cause	
				Use SIM 6-1 to check the
			Remedy	fusing motor operation.
		1	Note	lusing motor operation.
		Case 2	Trouble	Improper connection of
		Case 2	position/	the harness between the
			Cause	PCU PWB and the fusing
			Cause	motor
				Control circuit trouble
			Remedy	Check connection of the
				harness and the
				connector between the
				PCU PWB and the fusing
				motor.
			Note	

Main code	Sub code	Title	Developin	g motor lock detection
L4	04	Phenomenon	Display	Lamp
				Message
			Details	Developing motor lock
				detection
				The motor lock signal is
				detected for 1.5sec
				during rotation of the
			Oti	developing motor
			Section	Engine
			Operation mode	
			Note	
		Case 1		Davidania a matautus dala
		Case I	Trouble position/	Developing motor trouble
			Cause	
			Remedy	Use SIM 6-1 to check the
				developing motor
				operation.
			Note	'
		Case 2	Trouble	Improper connection of
			position/	the harness between the
			Cause	PCU PWB and the
				developing motor
				Control circuit trouble
			Remedy	Check the harness and
				the connector between
				the PCU PWB and the
				developing motor.
			Note	

Main code	Sub code	Title	Transfer b	elt separation motor tection
L4	06	Phenomenon	Display	Lamp
				Message
			Details	Transfer belt separation motor trouble detection The transfer belt home position sensor ON/OFF is not detected within the specified time (4 sec) during operation of the transfer belt (separation, contact).
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	Transfer belt separation motor trouble
			Remedy	Use SIM 6-1 to check the transfer belt motor operation.
			Note	
		Case 2	Trouble position/ Cause	Improper connection of the harness between the PCU PWB and the transfer belt separation motor. Control circuit trouble
			Remedy	Check connection of the harness and the connector between the PCU PWB and the fusing motor.
			Note	

L4 30 Phenomenon	Display Details	Lamp Message
	Details	Message
	Details	Message
		Controller fan motor lock
1 1 1		detection
		The motor lock signal is
		detected during rotation of
		the controller fan motor.
		The motor lock signal is
		detected during rotation of
		the HDD fan motor.
	Section	Controller
	Operation	
	mode	
	Note	
Case 1	Trouble	Fan motor trouble
	position/	
	Cause	
	Remedy	Use SIM 6-2 to check the
	NI-I-	fan motor operation.
0	Note	Lancard and a second and a second
Case 2	Trouble	Improper connection of the harness between the
	position/ Cause	controller PWB and the
	Cause	***************************************
		fan motor. Control circuit trouble
	Remedy	Check the harness and
	riemeuy	the connector between
		the controller PWB and
		the fan motor.
	Note	and rain motor.

	Main code	Sub code	Title	Paper disc	harging fan trouble
	L4	31	Phenomenon	Display	Lamp
					Message
1				Details	Paper exit thermistor
					open or short.
					When the temperature of
					100°C or above (entered
					value 235) is detected in
					the paper exit thermistor
					3 times or more
					continuously.
				Section	Engine
				Operation	
				mode	
				Note	
1			Case 1	Trouble	Defective contact of
				position/	paper exit thermistor
				Cause	harness
				Remedy	Check connection of the
					paper exit thermistor
					harness and the connector.
				Note	
			Case 2	Trouble	Fan motor trouble
				position/	
				Cause	I I a CIMA C C I a ab a dalla
				Remedy	Use SIM 6-2 to check the
				Note	fan motor operation.
			Case 3	Trouble	PCU PWB, harness
			Case 3		connection between fan
				position/ Cause	and motor trouble
				Cause	PCU circuit trouble
					Thermistor (TH_EX) trouble
				Remedy	Check the PCU PWB, the
				nemeuy	harness between fan and
					motor, and the connector.
				Note	motor, and the connector.
				NOLE	

Main code	Sub code	Title	Polygon m	notor lock detection
L6	10	Phenomenon	Display	Lamp
				Message
		Details	Details	Polygon motor lock detection It is judged that the polygon motor lock signal of the LSU is not outputted. The polygon motor lock signal is checked in an interval of 10sec after starting the polygon motor, and it is found that the polygon motor is not
			0 1"	rotating normally.
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble position/	Polygon motor trouble
			Remedy	Use SIM 61-1 to check the polygon motor operation.
		00	Note	Diagonal and an
		Case 2	Trouble position/ Cause	Disconnection or breakage of the LSU connector or the harness in the LSU
			Remedy	Check connection of the harness and the connector. Replace the LSU.

Main code	Sub	Title	No full wa	ve signal
L8	01	Phenomenon	Display	Lamp
				Message
			Details	The full wave signal is not detected.
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	Disconnection or breakage of the PCU PWB connector or the harness in the power unit
			Remedy	Check connection of the harness and the connector.
			Note	
		Case 2	Trouble position/Cause	PCU PWB trouble
			Remedy	Replace the PCU PWB.
			Note	
		Case 3	Trouble position/Cause	12V power source trouble
			Remedy	Replace the power unit. Replace the controller connection mother board.
			Note	

Main code	Sub code	Title	RIC copy inhibit command receive	
PF	00	Phenomenon	Display	Lamp
				Message
			Details	The copy inhibit command is received
				from the RIC (host). (By PPC communication
				standards.)
			Section	Controller
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	Judged by the host.
			Remedy	Notification to the host
			Note	

Main code	Sub code	Title	FAX battery abnormality	
U1	01	Phenomenon	Display	Lamp
				Message
			Details	FAX battery abnormality FAX backup SRAM battery voltage fall
			Section	FAX
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	Battery life
			Remedy	Check that the battery voltage is about 2.5V or above.
			Note	
		Case 2	Trouble position/Cause	Battery circuit trouble
			Remedy	Check the battery circuit.
			Note	

Main code	Sub code	Title	RTC read error (combined use as FAX, on MFP control PWB)	
U1	02	Phenomenon	Display	Lamp
				Message
			Details	RTC read error
				(combined use as FAX,
				on MFP control PWB)
				The read value from the
				RTC on the MFP control
				PWB is abnormal such as
				"EE"h.
			Section	Controller
			Operation	
			mode	
			Note	

Main code	Sub code	Title		error (combined use as IFP control PWB)
U1	02	Case 1	Trouble position/Cause	RTC circuit trouble
			Remedy	Make the time setup again with the key operation and check that the time advances normally. Check the RTC circuit.
			Note	
		Case 2	Trouble position/Cause	Battery voltage fall
			Remedy	Check that the battery voltage is about 2.5V or above.
			Note	
		Case 3	Trouble position/Cause	Battery circuit trouble
			Remedy	Check the battery circuit.
			Note	

Main	Sub	Title	EEPROM r	ead/write error (MFP
code	code	1106	control)	
U2	00	Phenomenon	Display	Lamp
				Message
			Details	EEPROM write error
			Section	Controller
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	EEPROM trouble
			Remedy	Check that the EEPROM is properly installed. In the simulation to prevent against delete of the counter data/ adjustment values, write down the counter/ adjustment values.
			Note	
		Case 2	Trouble position/ Cause	Insertion of EEPROM which is not initialized
			Remedy	Use SIM 16 to cancel the U2 trouble.
			Note	
		Case 3	Trouble position/ Cause	MFP control PWB EEPROM access circuit trouble
			Remedy	Replace the MFP control PWB.
			Note	

Main code	Sub code	Title	Counter cl	heck sum error (MFP
U2	11	Phenomenon	Display	Lamp
				Message
			Details	Counter data area check sum error
			Section	Controller
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	EEPROM trouble
			Remedy	Check that the EEPROM is properly installed. In the simulation to prevent against delete of the counter data/ adjustment values, write down the counter/ adjustment values.
			Note	
		Case 2	Trouble position/	Control circuit runaway due to noises
			Remedy	Use SIM 16 to cancel the U2 trouble.
			Note	
		Case 3	Trouble position/	MFP control PWB EEPROM access circuit trouble
			Remedy	Replace the MFP control PWB.
			Note	

Main	Sub	Title		nt value check sum error
code	code	Title	(MFP cont	rol)
U2	12	Phenomenon	Display	Lamp
				Message
			Details	Adjustment value data
				area check sum error
			Section	Controller
			Operation mode	
			Note	
		Case 1	Trouble position/	EEPROM trouble
			Remedy	Check that the EEPROM is properly installed. In the simulation to prevent against delete of the counter data/ adjustment values, write down the counter/ adjustment values.
			Note	
		Case 2	Trouble position/Cause	Control circuit runaway due to noises
			Remedy	Use SIM 16 to cancel the U2 trouble.
			Note	
		Case 3	Trouble	MFP control PWB
			position/ Cause	EEPROM access circuit trouble
			Remedy	Replace the MFP control PWB.
			Note	

Main code	Sub code	Title	SRAM mei	mory check sum error rol)
U2	22	Phenomenon	Display	Lamp
				Message
			Details	MFPC section SRAM
				memory check sum error SRAM check sum error
				when turning on the
				power. (If this error occurs,
				initialize the one-touch
				dial and the FAX soft
				switches.)
			Section	Controller
			Operation	
			mode	
			Note	
		Case 1	Trouble	SRAM trouble
			position/ Cause	
			Remedy	Initialize the
			nemeuy	communication
				management table
				registered in the SRAM
				and the FAX soft switch.
				Since the registered data
				are deleted, register the
			Nata	data again.
		Case 2	Note Trouble	Control circuit runaway
		Case 2	position/	due to noises
			Cause	due to hoises
			Remedy	Use SIM 16 to cancel the
			,	U2 trouble.
			Note	
		Case 3	Trouble	MFP control PWB
			position/	EEPROM access circuit
			Cause	trouble
			Remedy	Replace the MFP control PWB.
			Note	

Main code	Sub code	Title	SRAM mei	mory individual data
U2	23	Phenomenon	Display	Lamp
			, ,	Message
			Details	Check sum error for every
				individual data in SRAM
				of the MFPC section
				when turning on the
				power
				(If this error occurs,
				initialize the data related
				to the check sum error.
				(Communication management table,
				sender's information, etc.)
			Section	Controller
			Operation	Controller
			mode	
			Note	
		Case 1	Trouble	SRAM trouble
			position/	
			Cause	
			Remedy	Automatically initialize the
				data related to the check
				sum error by turning OFF/
				ON the power.
				Since the registered data are deleted, register the
				data again.
			Note	data agam.
		Case 2	Trouble	Control circuit runaway
		0400 L	position/	due to noises
			Cause	
			Remedy	Use SIM 16 to cancel the
			,	U2 trouble.
			Note	
		Case 3	Trouble	MFP control PWB
			position/	EEPROM access circuit
			Cause	trouble
			Remedy	Replace the MFP control PWB.
			Note	

Main code	Sub code	Title		on individual data check (MFP control)
U2	50	Phenomenon	Display	Lamp
				Message
			Details	Check sum error for
				every individual data in
				HDD of the MFPC section
				when turning on the
				power
				(If this error occurs,
				initialize the data related
				to the check sum error.
				(One-touch, group,
				program, etc.)
			Section	Controller
			Operation	
			mode	
			Note	
		Case 1	Trouble	HDD write/read error
			position/	
			Cause	
			Remedy	Automatically initialize the data related to the check
				sum error by turning OFF/
				ON the power.
				Since the registered data
				are deleted, register the
				data again.
			Note	
		Case 2	Trouble	Control circuit runaway
			position/	due to noises
			Cause	
			Remedy	Use SIM 16 to cancel the U2 trouble.
			Note	
		Case 3	Trouble	MFP control PWB HDD
			position/	access circuit trouble
			Cause	
			Remedy	Replace the HDD.
				Replace the MFP control PWB.
			Note	

Main code	Sub	Title	EEPROM 1	red/write error (Scanner)
U2	80	Phenomenon	Display	Lamp Message
			Details	EEPROM red/write error (Scanner) EEPROM communication trouble (NACK detection) Retry 3 times
			Section	Scanner
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	EEPROM trouble
			Remedy	Check that the EEPROM is properly installed. In the simulation to prevent against delete of the counter data/ adjustment values, write down the counter/ adjustment values.
			Note	
		Case 2	Trouble position/Cause	Insertion of EEPROM which is not initialized
			Remedy	Use SIM 16 to cancel the U2 trouble.
			Note	
		Case 3	Trouble position/Cause	Scanner PWB EEPROM access circuit trouble
			Remedy	Replace the scanner PWB.
			Note	

Main code	Sub code	Title	Memory cl	neck sum error (Scanner)
U2	81	Phenomenon	Display	Lamp Message
			Details	Memory check sum error (Scanner) When counter data sum error is detected.
			Section	Scanner
			Operation	
			mode	
			Note	
		Case 1	Trouble position/ Cause	EEPROM trouble
			Remedy	Check that the EEPROM is properly installed. In the simulation to prevent against delete of the counter data/ adjustment values, write down the counter/ adjustment values.
			Note	

Main code	Sub code	Title	Memory check sum error (Scanner)	
U2	81	Case 2	Trouble position/Cause	Control circuit runaway due to noises
			Remedy	Use SIM 16 to cancel the U2 trouble.
			Note	
		Case 3	Trouble position/Cause	Scanner PWB EEPROM access circuit trouble
			Remedy	Replace the scanner PWB.
			Note	

Main code	Sub code	Title	EEPROM 1	read/write error (PCU)
U2	90	Phenomenon	Display	Lamp Message
			Details	EEPROM read/write error (PCU) EEPROM communication trouble (NACK detection) Retry 3 times
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	EEPROM trouble
			Remedy	Check that the EEPROM is properly installed. In the simulation to prevent against delete of the counter data/ adjustment values, write down the counter/ adjustment values.
			Note	
		Case 2	Trouble position/Cause	Insertion of EEPROM which is not initialized
			Remedy	Use SIM 16 to cancel the U2 trouble.
			Note	
		Case 3	Trouble position/	PCU PWB EEPROM access circuit trouble
			Remedy	Replace the PCU PWB.
			Note	

Main code	Sub code	Title	Memory cl	neck sum error (PCU)
U2	91	Phenomenon	Display	Lamp
				Message
			Details	Memory check sum error (PCU) When POF data/counter data sum error is detected.
			Section	Engine
			Operation mode	
			Note	
		Case 1	Trouble position/Cause	EEPROM trouble
			Remedy	Check that the EEPROM is properly installed. In the simulation to prevent against delete of the counter data/ adjustment values, write down the counter/ adjustment values.
			Note	
		Case 2	Trouble position/Cause	Control circuit runaway due to noises
			Remedy	Use SIM 16 to cancel the U2 trouble.
			Note	
		Case 3	Trouble position/Cause	PCU PWB EEPROM access circuit trouble
			Remedy	Replace the PCU PWB.
			Note	

Main	Sub	Title	SPF trav li	ft-up trouble
code	code			
U5	30	Phenomenon	Display	Lamp
				Message
			Details	SPF tray lift-up trouble
				Lift-up trouble is detected
				5 times continuously.
			Section	Scanner
			Operation	
			mode	
			Note	
		Case 1	Trouble	STUD/STLD trouble
			position/	STUD does not turn on
			Cause	within the specified time.
				STLD does not turn off
				within the specified time.
			Remedy	Check the harness and
				the connector of the
				STUD and STLD.
				Lift-up trouble unit check
			Note	

Main code	Sub code	Title	SPF tray li	ft-down trouble
U5	31	Phenomenon	Display	Lamp
				Message
			Details	SPF tray lift-down trouble STLD does not turn off within the specified time.
			Section	Scanner
			Operation mode	
			Note	
		Case 1	Trouble position/	STUD/STLD trouble STUD does not turn on within the specified time. STLD does not turn off
				within the specified time.
			Remedy	Check the harness and the connector of the STUD and STLD. Lift-up trouble unit check
			Note	

Main code	Sub	Title	LCC lift me	otor trouble
U6	09	Phenomenon	Display	Lamp
			, ,	Message
			Details	LCC lift motor trouble The upper limit sensor does not turn on within 24 sec after the lift motor is on. No rotation sensor signal is detected for 0.2 sec or longer while the lift motor is on. The upper limit switch is on while the lift motor is on. When the trouble occurs 3 time continuously that the upper limit sensor does not turn on.
			Section	LCC
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Sensor trouble LCC control PWB trouble Gear breakage Lift motor trouble
			Remedy	Use SIM to check the sensor detection. Use SIM to check the lift motor operation. Use SIM 15 to cancel the trouble.

Main code	Sub code	Title	LCC comn	nunication trouble
U6	20	Phenomenon	Display	Lamp
				Message
			Details	Communication trouble
				with the LCC.
				Follows the
				communication protocol
				specifications.
				Communication error,
				timing abnormality of the communication data and
				the communication signal line
			Section	LCC
			Operation	200
			mode	
			Note	
		Case 1	Trouble	Improper connection or
			position/	disconnection of the
			Cause	connector and the
				harness
				Desk control PWB trouble
				Control PWB (PCU)
				trouble
				Malfunction caused by
				noises
			Remedy	Canceled by turning ON/
				OFF the power.
				Check the connector and
				the harness in the
			Note	communication line.
			Note	

Main code	Sub code	Title	LCC trans	port motor trouble
U6	21	Phenomenon	Display	Lamp
				Message
			Details	LCC transport motor
				trouble
				The lock detection signal
				is detected continuously
				for 1sec after delay of
				1sec from start of the
				motor.
			Section	LCC
			Operation	
			mode	
			Note	
		Case 1	Trouble	Motor lock
			position/	Motor RPM abnormality
			Cause	Overcurrent to the motor
				Desk control PWB trouble
			Remedy	Use SIM 4-3 to check the
				transport motor
				operation.
			Note	

Main code	Sub code	Title	LCC 24V p	ower abnormality
U6	22	Phenomenon	Display	Lamp
				Message
			Details	LCC 24V power
				abnormality addition
				24V power is not supplied
				to the LCC. (the LCC 24V
				power is not detected for
				1 sec or longer after 1 sec
				from power on)
			Section	LCC
			Operation	
			mode	
			Note	
		Case 1	Trouble	Improper connection or
			position/	disconnection of the
			Cause	connector and the
				harness
			Remedy	Check the connector and
				the harness of the power
				line.
			Note	
		Case 2	Trouble	LCC control PWB trouble
			position/	Power unit trouble
			Cause	
			Remedy	Check the 24V power
				with the power unit and
				the LCC control PWB.
			Note	

Main code	Sub	Title	RIC comm	unication trouble
U7	00	Phenomenon	Display	Lamp
				Message
			Details	Communication error with RIC (By PPC communication standards) An error in the communication line test after turning on the power or canceling the simulation
			Section	Controller
			Operation mode	
			Note	
		Case 1	Trouble position/ Cause	Improper connection or disconnection of the connector and the harness RIC control PWB trouble Control PWB (MFP control) trouble Malfunction caused by noises
			Remedy	Canceled by turning ON/ OFF the power. Check the connector and the harness in the communication line.
			Note	