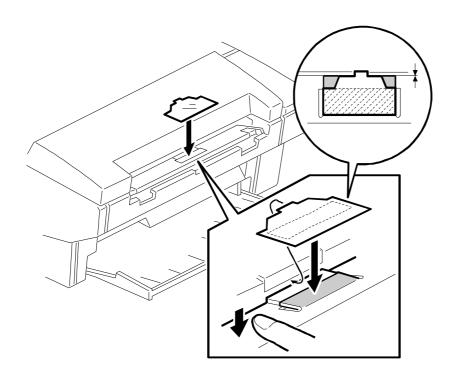
RIGOH	Technical B	Bulletin	No.	F/LX7 - 001
SUBJECT: ADF Mylar				<b>DATE:</b> 1996. 10. 30.
PREPARED BY: K. Misugi CHECKED BY: S. Fujii		FROM: 2nd	d Field Ir	nformation Group, QA Division
CLASSIFICATION:  Action Required Troubleshooting Retrofit Information	Revision of servi Information only Other			l FAX1700L 1765, SAVIN FAX 3650

For customers who would like to use originals which contain silicone oil, place the mylar on the Document Separation Pad as shown in the diagram below.

The ADF mylar will be available as a service part.

Part Number: H528 9500



Technical B	Bulletin	No.	F/LX7 - 003
SUBJECT: Print left margin from the optional paper	er feed unit		DATE: 15,Jan.1997
PREPARED BY: K.Moriizumi CHECKED BY: S.Fujii	FROM: Qu	ality Ass	surance Center
CLASSIFICATION:  Action Required Troubleshooting Retrofit Information  CLASSIFICATION: Revision of servi			I FAX 1700L 765,SAVIN FAX 3650

### Symptom

The printed image shifts to left when printing from the optional paper feed unit.

The image is printed in the correct position when printing from the standard paper tray.

#### Cause

The initial value of the print left margin was fixed during the pre-mass-production. However, the mechanical unit shifted the print left margin during the mass-production. The print left margin for the standard paper tray was adjusted in the assembly line, but the print left margin of the optional paper feed unit was not adjusted.

#### Countermeasure



The initial value of the print left margin for the standard paper tray and the optional paper feed unit will be changed in order to match the mechanical unit. This change will be implemented from the January production runs.

### Action required

If the user makes a complaint about the print left margin from the optional paper feed unit, adjust the print left margin for the optional paper feed unit by referring to the following table.

RAM address	Value	Function
8002C0 [H]	06 [H]	Print left margin (Standard paper tray)
8002C1 [H]	06 [H]	Print left margin (Optional paper feed unit)

RC	RE	ASIA	
*	*	*	



Model: F/X7			Date: 15-1	eb-97	No: 002	<b>1</b> /5
Subject: FX7 Sei	vice Manual Correction			Prepared	d by: K.Misugi	
From: 2nd field Ir	formation Group, QA Division			Checked	l by: S.Fujii	
Classification:	⊠Troubleshooting	⊠Pa	art informat	tion	Action required	
	☐Mechanical	□EI	lectrical		Service manual revision	n
	☐Paper path	□Tr	ransmit/rec	eive	Retrofit information	
	Other ( )					

### **Section 1. OVERALL MACHINE INFORMATION**

### 1.1. Specifications

Paper Size and Capacity

Incorrect	Correct	Remarks
Paper Feed Unit (Optional): A4, Letter, Legal, <u>F4</u>	Paper Feed Unit (Optional): A4, Letter, Legal	F4 size cannot be used with the optional paper feed unit.

### **Section 2. DETAILED SECTION DESCRIPTIONS**

### 2.2.1. Printing Process - Overview

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Incorrect	Correct	Remarks
Document Blade - 550V	Doctor Blade -550V	Illustration: H528D545.wmf
Development Roller (Bias): - 300V	Development Roller (Bias): - 280V	Development Roller bias has been changed.

## 2.2.5. Development

### 1. Overview



Incorrect	Correct
"During printing, a bias voltage of <u>-300V</u> is applied to the development roller."	"During printing, a bias voltage of <u>-280V</u> is applied to the development roller."

### 2. Development Bias



Incorrect	Correct	Remarks
Development roller: -300V [B]	Development roller: -280V [B]	Same as above.

# RIGOH

# **TECHNICAL BULLETIN**

#### 2.3.2. Automatic Service Calls



### 1. Service Call Conditions

Descriptions	Incorrect	Correct
Service Call Conditions	Sub-code address 80033C(H)	Sub-code address 8002F9(H)
Hexagonal mirror motor error	Sub-code 32	Sub-code 31
Fan motor failure	Sub-code 52	Sub-code 51

#### 2. Excessive Jam Alarms

Г	
п	_
п	
п	_
ш	_

	Incorrect	Correct	Remarks
l	Then, the alarm is disabled until either bit 3 or bit 4 of address 80033D(H) is reset to zero.	Then, the alarm is disabled until either bit 3 or bit 4 of address 8002DD(H) is reset to zero.	The last sentence on the descriptions of the Excessive Jam Alarms. The RAM address is incorrect.

### 4. PM Call



Incorrect	Correct	Remarks
Default setting: 60,000 sheets	Default setting: 30,000 sheets	

### **Section 4. SERVICE TABLES AND PROCEDURES**

### 4.1.17. Printer Test Patterns (Function 11)



Incorrect	Correct	Remarks
Press a key from 0 to 4.	Press the <u>0 or 1</u> key.	Only 0 or 1 are selectable.

### 4.2. Bit Switches



Bit Switch	Incorrect	Correct
System Switch 04: Bit 5 OPC replacement level	The drum replacement interval is programmed at addresses 8001E5 to 8001E7(H).	The drum replacement interval is programmed at addresses 8001EE to 8001F0(H).





Scanner Switch 00:	Bit	3	2	Setting	Bit	3	2	Setting
Bits 2 and 3 Maximum transmittable		U	I	<u>1200 </u> mm		U	ı	<u>1000 </u> mm
document length								

### 4.5. Service RAM Addresses

п	_	
ı	_	
ı	_	
п	_	ı

RAM Address	Incorrect	Correct
8002F9(H): Details of the service call (hardware error)	32(H): Mirror motor error	31(H): Mirror motor error
	52(H): Fan motor error	51(H): Fan motor error
80033D(H): Excessive jam alarm	80033D(H) (address is wrong)	8002DD(H)
8003FD to 800404 Scanner Video Processing Parameters	8003FD to 800404(H) (addresses are wrong)	800340 to 800347(H)

### **Section 5. PREVENTIVE MAINTENANCE**

### **5.1. Special Tools and Lubricants**



RAM Address	Incorrect	Correct
Flash/SRAM data copy tool (P/N: A1939535)	Flash/SRAM data copy tool (P/N: A1939353)	This information has already been released.

### **Section 6. REPLACEMENT AND ADJUSTMENT**

### 6.6. Image Adjustment



Incorrect	Correct
"The RAM reset level 0 will reset all the	"The RAM reset level 1 will reset all the
, , ,	scan and print margin parameters to the
initial settings."	initial settings."



## **Section 7. TROUBLESHOOTING**

### 7.3. Service Call Conditions

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Description	Incorrect	Correct
Mirror motor error	Sub-code <u>32</u>	Sub-code 31
	SC Code <u>3-32</u>	SC Code 3-31
Fusing unit fan motor error	Sub-code <u>52</u>	Sub-code 51
	SC code <u>5-52</u>	SC code 5-51



### 7.4. Error Codes

An error code has been added for an optional paper feed unit paper jam.

Code	Meaning	Suggested Cause/Action
9-50	Paper non-feed or jam at the paper entrance (With the paper feed unit.)	If the problem persists, replace the FCU. Cross reference Paper non-feed - Section 7-2-2 Jam at the paper entrance - Section 7-2-2



# Technical Bulletin

Model: F/LX7		Date: 28-	Feb-97	No: 004	1/1	
Subject: Scanner bottom margin			Prepared by: K.Moriizumi			
From: 2nd Technical Support Section			Checked by: S. Fujii			
Classification:	☐ Mechanical ☐	Part informa Electrical Transmit/red		ion Action required Service manual revision		

### **Symptom**

The scanner bottom margin is wider by a few millimeters.

#### Cause

A sheet has been added to the scanner cover to accurately reset the document exit sensor starting from the November 1996 production run.

(H5291156:Sheet - Scanner Cover)

As a result, the document exit sensor resets accurately and quickly. It may cause a wider blank space at the bottom of the scanned pages and the omission of the trailing edges of the scanned pages.



### Countermeasure

If the scanner bottom margin is too wide, please change the following RAM data.

Address	Value
800298	$10 \rightarrow 16$ (Copy Mode 100%)
804D67	$00 \rightarrow 07$ (Memory Tx STD)
804D69	$0B \rightarrow 11 \text{ (Copy Mode 75\%)}$
804D6B	$0D \rightarrow 13 \text{ (Copy Mode 85\%)}$
804D6D	$0F \rightarrow 15$ (Copy Mode 95%)
804D6F	$13 \rightarrow 17$ (Copy Mode 125%)
804D71	$17 \rightarrow 1C$ (Copy Mode 150%)
804D73	1F $\rightarrow$ 1E (Memory Tx SSF)
804D75	$07 \rightarrow 00$ (Memory Tx STD)

**Note:** Do not change the above RAM values on the machines in which the Scanner Cover Sheet was not added.

RC	RE	ASIA	
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# Technical Bulletin

Model: F/LX7		Date: 28-Feb-97		No: 005	1/1	
Subject: TTI on the System Parameter List		Prepared by: K.Moriizumi				
From: QAC 2nd Field Information Dept.			Checked by: S. Fujii			
Classification:	☐ Mechanical [	_ EI	art informa lectrical ransmit/rec		☐ Action required ☐ Service manual revi ☐ Retrofit information	sion

The programmed TTI is not printed in the middle of the system parameter list but at the upper right corner because of the limited ROM capacity.

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# Technical Bulletin

PAG	E:	1	1

Model: FX7,LX7		Date: 15-Mar-97		No: 007	
Subject: ADF Solenoid control			Prepared by: Y.Tamaoka		
From: QAC 2nd Field Information Dept.			Checked by: S. Fujii		
Classification:		☐ Part informa		ion	n required
	☐ Mechanical	☐ Electrical		☐ Servi	ce manual revision
	☐ Paper path ☐ Transm		it/rec	eive 🗌 Retro	fit information
	☐ Other ( )				

#### **SYMPTOM**

The Document Pick-up Solenoid stays on even after document is fed out and this causes overheating. This may result in warping of the operation panel cover and damage to transistor Q4 on the FCU.

#### **CAUSE**

There is no software protection for the above condition.

This may happen if an original is fed in too far between the Document Pick-up Roller and Separation Pad, but it is rare.

### SOLUTION

- 1) Software Update
  - H5287120E for FX7, H5297120C for LX7
- 2) Adding a decal informing users not to forcibly insert documents (Under preparation: The decal should be expectedly available at the beginning of March 1997)

# Technical Bulletin

**PAGE: 1/1** 

Model: FX7		Date: 31-Mar-97		No: 006
Subject: SC Code Coreection			Prepared by: Y.Tamaoka	
From: QAC 2nd Field Information Dept.			Checked by: S. F	ujii
☐ Troubleshooting ☐ Mechanical	<del>_</del>		<del></del>	n required ce manual revision
☐ Paper path	☐ Transm	it/rec	eeive	fit information
	ield Information Dept.  Troubleshooting  Mechanical	ield Information Dept.  Troubleshooting Part inf Mechanical Electric Paper path Transm	e Coreection  Field Information Dept.  Troubleshooting  Mechanical Paper path Transmit/rec	Prepared by: Y.T.  Gield Information Dept.  Troubleshooting  Part information  Action  Mechanical  Paper path  Transmit/receive  Retro

Page 7-22

### 7.3 SERVICE CALL CONDITIONS

## Current

Symptom	Error Code	Sub-code	SC Code
Mirror motor error	9-23	32	3-32

### Corrected to

Symptom	Error Code	Sub-code	SC Code
Mirror motor error	9-23	31	3-31

RC	RE	ASIA	
*	*	*	

# RIGOH

## Technical Bulletin

### **PAGE: 1/1**

### **RTB Correction**

Reissue date: 30-Sep-97

The items in bold italic have been corrected or added.

Model: FX7 Da		Date: 31-May-97		No: 008 <i>A</i>	
Subject: Drum Cartridge			Prepared by: K.Moriizumi		
From: QAC 2nd F	Field Information Dept.				
Classification:	<ul><li>☐ Troubleshooting</li><li>☐ Mechanical</li><li>☐ Paper path</li><li>☐ Other ( )</li></ul>	Part informat Electrical Transmit/rec		Service manual revision	
Modification Schedule					

### **SYMPTOM**

When the drum cartridge is replaced, if the top cover is not opened fully, paper jams will occur.

### **CAUSE**

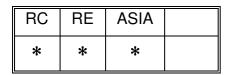
The drum cartridge gear comes off if the top cover is not opened fully.

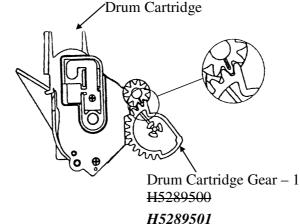
### **SOLUTION**

Instruct the customer to repair the drum cartridge gears in the following manner

- 1. Remove drum cartridge gear-1 from the drum cartridge.
- 2. Snap on drum cartridge gear-1 in the correct position.
- 3. Instruct the customer to open the top cover fully when installing the drum cartridge.

We will prepare the drum cartridge gear as a service part. If the customer breaks the drum cartridge gear by mistake, use a new one.





## Technical Bulletin

Model: Fx7		Date	e: 31-May-97	No: 009	
Subject: Document Sensor		Prepared by: K. Moriizumi			
From: QAC 2nd F	ield Information Dept.				
Classification:	☐ Troubleshooting ☐ Mechanical ☐ Paper path ☐ Other ( )	☐ Part inf☐ Electric☐ Transm	al	☐ Servi	n required ce manual revision fit information
Modification					
Schedule					

### **SYMPTOM**

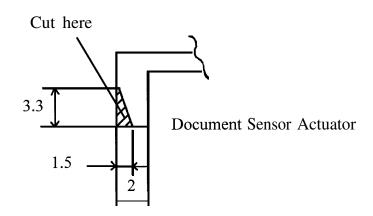
A document jam error occurs even though there are no documents in the ADF. This is because the Document Sensor is stuck.

### **CAUSE**

The actuator of the document sensor touches the sensor unit on the Scanner Sensor Board.

From September, the scanner sensor board was shifted to the left during assembly, However, the board might be shifted due to vibration during transportation.

From December, the document sensor actuator was changed to prevent contact with the sensor.



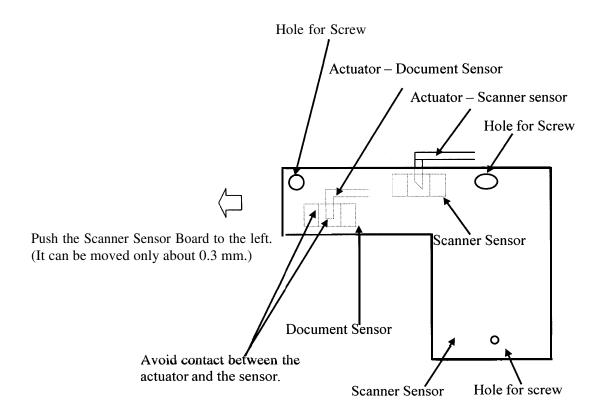
Model:FX7 Date: 31-May-97 **No:** 009

### **SOLUTION**

If the document sensor does not return to the initial position, please do the following.

Temporary Countermeasure

- 1. Loosen the screws of the Scanner Sensor Board.
- 2. Push the Scanner Sensor Board to the left side.
- 3. Tighten the screws.



Permanent Countermeasure

1. Replace the Document Sensor Actuator.

The new part number is:

H5291160: Actuator - Document Sensor

RC	RE	ASIA	
*	*	*	

# Technical Bulletin

Model: F/LX7 Date		ate: 15-Jun-97		No: 010		
Subject: Paper Tray		Prepared by: K.N		Moriizumi		
From: QAC 2nd Field Information Dept.						
Classification:	<ul><li>☐ Troubleshooting</li><li>☐ Mechanical</li><li>☐ Paper path</li><li>☐ Other ( )</li></ul>	☐ Part inf ☐ Electric ☐ Transm	al	☐ Se	rvi	n required ce manual revision fit information

#### **SYMPTOM**

A paper jam occurs because the paper tray is in the wrong position.

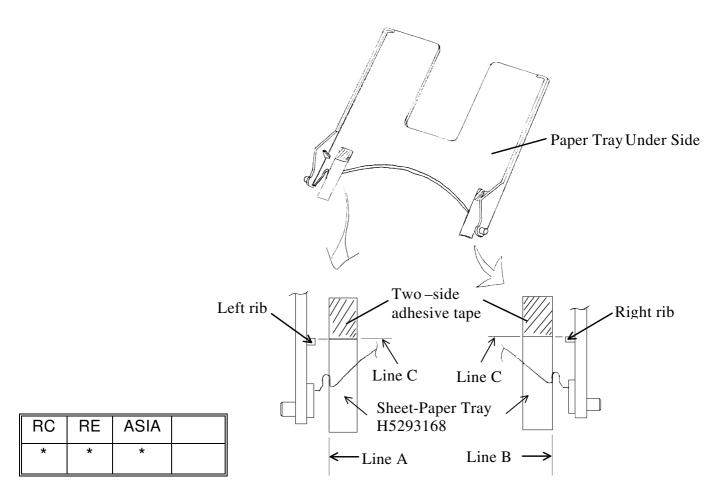
### **SOLUTION**

Sheets have been added to the paper tray as a countermeasure to prevent the paper tray from being set in the wrong position. Please refer to the following installation procedure.

P/N: H5293168 (Sheet-Paper Tray)

## **Sheet - Paper Tray Installation Procedure**

- 1. Put two-sided adhesive tape on the underside of the paper tray near the hinges along the Line A and B and Line B and C as shown below.
- 2. Press down on the adhesive tape after application to remove any air bubbles.



# Technical **B**ulletin

**PAGE: 1/2** 

Model: F/LX7 Dat		ate: 31-Jul-97		No: 011		
Subject: History of Software Changes		Prepared by: K.N.		1oriizumi		
From: QAC 2nd	Field Information Dept.					
Classification:	Troubleshooting	☐ Part info	orma	tion	Action	n required
	☐ Mechanical	Electric	al		☐ Servi	ce manual revision
	☐ Paper path	☐ Transm	it/rec	eive	Retro	fit information
	☑ Other (Software History)					

#	Reason/Problem	H5287120	H5297120
1	The rotation time of the document exit roller has a limited margin. So, the document exit roller might hold the end of the last page of the document.	D (Suffix)	A (Suffix)
2	If the size of paper in the Optional Paper Feed Unit is different from the setting, a paper size error for the Standard Tray occurred instead of for the Optional Paper Feed Unit.	D	A
3	Spelling correction.	D	Α
4	Correction for Spain and Switzerland to meet regulations.	D	А
5	Garbage data is inserted in the first ECM frame occasionally. But, the garbage data is not inserted in the frame that is transferred again.	D	А
6	The printed image shifts to the left when printing from the Optional Paper Feed Unit. (See RTB No. F/LX7-003)	D	А
7	The received page is printed out twice for non-ECM and direct reception mode if a communication error has occurred.	D	А
8	The engine version is always printed as "00" on the System Parameter Report.	D	А
9	The Distinctive Ring function is printed on the User Parameter List (Europe/Asia).	D	А
10	The scanner bottom margin is a few millimeters wider (See RTB No. F/LX7-004).	D	В
11	The DIS frame description is always printed as "V17 14. 4K W: A4 OMS (1/11/1)" on the protocol dump list for PC Fax reception (Class 1) mode. The DIS Hex Code dump is correct.	-	В
12	Correction for Spain to meet regulations. (The default value for polarity change detection was changed so that it is now enabled.)	E	С

RC	RE	ASIA	

# Technical Bulletin

**PAGE: 2**/2

Model: F/LX7 Date: 31-Jul-97 No: 011

13	Document Pick-up Solenoid problem (See RTB No. F/LX7-007)	E	С
14	It is impossible to send the document after the machine detected a ringing signal if the Distinctive Ring function is enabled.	E	С
15	The AI Short Protocol function is disabled after redialing.	E	С

FX7: H5287120	Implementation	Check Sum (Total/Boot/Main)
Suffix D	January, 1997	1B27/BEEF/5C38
Suffix E	February, 1997	42B3/BEEF/83C4

LX7: H5297120	Implementation	Check Sum (Total/Boot/Main)
Suffix A	November, 1996	8412/BEEF/C523
Suffix B	January, 1997	8ABE/BEEF/CBCF
Suffix C	February, 1997	96A7/BEEF/D7B8

## Technical Bulletin

**PAGE: 1/1** 

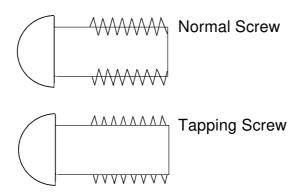
Model: F/LX7		Date: 31-Jul-97		No: 012		
Subject: Tapping Screws			Prepared by: K.Moriizumi		Moriizumi	
From: QAC 2nd Field Information Dept.						
Classification:	☐ Troubleshooting ☐ Mechanical	Part informa		·	_	n required be manual revision
	☐ Paper path	☐ Electric		· · · · · · · · · · · · · · · · · · ·		fit information
	Other ( )				, , , , , , ,	

There is no tapping hole on the brackets which are service parts, because tapping screws are used for the bracket.

The tapping screw is similar to a normal Phillips head screw. The pitch of the tapping screw is the same as that of a normal screw; see below.

## **Action required**

- 1. Distinguish between the tapping screw and the normal screw by referring to the following drawing.
- 2. Use the same tapping screw in the same place to attach the bracket.



RC	RE	ASIA	

# Technical Bulletin

РΔ	GE:	1	/3

Model: LX7 Date			e: 31-Jul-97	No: 013	
Subject: Differen option	ces between the LX7 PC-Fax	and the PC	CFE	Prepared by: K	Moriizumi
From: QAC 2nd I	Field Information Dept.				
Classification:	Troubleshooting	☐ Part inf	orma	tion	on required
	☐ Mechanical	☐ Electric	al	☐ Serv	rice manual revision
	$\square$ Paper path	☐ Transm	nit/rec	eive 🛭 Retr	ofit information
	Other ( )				

This RTB is information for the LX7 PC Fax.

## Technical Bulletin

**PAGE: 2/31** 

Model: LX7 Date: 31-Jul-97 No: 013

### Differences between the LX7 PC-Fax and the PCFE option

The LX7 has a PC interface for PC-based fax communication, scanningnd printing. The PC-based fax communication of the LX7 is different from the PCFE option for the current fax models. The LX7 does not have the SAF memory Tx/Rx function. The LX7 has direct PC Fax Tx/Rx only. This report explains the differences between the LX7 PC Fax, the PCFE, and fax modems. This report also describes test results for some major fax applications.

#### Notes:

- "PCFE" represents the PC FAX EXPANDER option for the FX6, FX6Mk2, LSO, LSOMk2, and IXO. "Fax modem" represents the AIWA WORLD COM PV-PF288.
- We do not guarantee the descriptions of the PC fax applications. These are the results from our laboratory, and in other circumstances, the PC fax applications may not behave the same as in this report.
- We do not explain the AT commands and the Class1/Class2 commands in detail. If you netalknow about the modem commands, please refer to the following standards.

EIA/TIA-578 - Class 1 documentation

EIA/TIA-592 - Class 2 documentation

EIA/TIA: Electronic Industries Association and Telecommunications Industry Association

#### 1. Parameter setting by PC fax applications

Items	LX7	PCFE	Fax Modem	
Monitor speaker volume	N/A	N/A	Available	Note 1
Speaker On/Off	Available	Available	Available	
Pause time	N/A	N/A	Available	Note 1
Busy tone detection	N/A	N/A	N/A	Note 2
Dial tone detection	N/A	N/A	N/A	Note 2

#### Notes:

- 1. Controlled by the System Parameters of the fax unit.
- 2. PC applications do not have the busy tone and dial tone detection parameters for some countries.

## Technical Bulletin

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Model: LX7 Date: 31-Jul-97 No: 013

### 2. Dialing from PC fax applications

Items	LX7	PCFE	Fax Modem	
Auto dialing	Available	Available	Available	
Manual dialing	N/A	N/A	Available	Note 1
Pulse dialing	Available	Available	Available	
DTMF tone dialing	Available	Available	Available	
Tonal signal transmission	Available	N/A	Available	Note 2
Unsupported dialing codes	N/A	N/A	N/A	Note 3
If there is a "#" or "*" code in the pulse dialing:	"#" and "*" codes are ignored.	"#" and "*" codes are replaced with a pause.	"#" and "*" codes are ignored.	Note 4
If there is an "A", "B", "C" or "D" code in the DTMF tone dialing:	"A", "B", "C", and "D" codes are ignored.	"A", "B", "C", and "D" codes are ignored.	The codes are transferred as DTMF tones.	Note 5
If there is a ","(comma) code in the dialing:	Pause	Pause	Pause	Note 6
Selecting Quick dials in the Fax unit from the PC	N/A	Available	N/A	
NEST Autoroute	N/A Note 7	N/A Notes 7, 8	N/A	
Response command when dialing is disabled.	"NO CARRIER"	"BUSY" after 3 s.	"NO CARRIER"	Note 9

#### Notes:

- 1. Manual dialing means that the PC application sends the fax protocol after dialing from the handset.
- 2. For example, "ATDP1234T5555". In this case, the "T" code means DTMF tone transmission. "1234" are transferred as pulses, and "5555" are transferred as tones.
- 3. Unsupported dialing codes have to be ignored according to AT command regulations.
- 4. For pulse dialing, the "#" and "\*" codes have to be ignored according to AT command regulations.
- 5. Normally, "A", "B", "C", and "D" codes have to be transferred as DTMF tones.
- 6. In the AT command regulations, a "," (comma) code means a pause.
- 7. If the NEST Autoroute ID is stored in the CSI of the PC application, it is possible to use the NEST Autoroute.
- 8. It is possible to use the NEST Autoroute, if the following conditions are met.
  - The fax unit is set up in the PCFE memory transmission mode.
  - The Quick Dial that contains the NEST Autoroute ID is selected.
- 9. LX7: We tested dialing from PC applications when LX7 the handset was off-hook. Fax modem: We tested dialing from PC applications when a ringing signal was coming in.

# Technical Bulletin

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Model: LX7 Date: 31-Jul-97 No: 013

## 3. Ringing

Items	LX7	PCFE	Fax modem	
Auto reception	Available	Available	Available	
Manual reception	N/A	N/A	N/A	Note 1
Reception after the handset is taken off-hook during ringing	Fax reception	Fax reception	PC Fax reception	
Reception after the On Hook button is pressed during ringing	Fax reception	Fax reception	N/A	
Automatic change to fax reception from PC fax mode, if the PC does not respond to a ringing signal	N/A	Available	N/A	
Sending the "RING" command to the PC if the fax unit cannot receive the fax message.	Sends the "RING" command to the PC	Does not send the "RING" command.	N/A	
Compatibility with the Cheyenne Fax Server	N/A	Available	N/A	
The command "ATS1?"	N/A (ignored)	Available (Notice the number of the ringing signal to the PC)	Not tested	
Response to the "ATA" command when a ringing signal is not detected.	"NO CARRIER"	Ignored	Connect the telephone line.	

### Note:

1. Manual reception means that the PC application sends the fax protocol after the handset is picked up or the On Hook Dial button is pushed during ringing.

### 4. Transmission

Items	LX7	PCFE	Fax modem
Display during communication	Displays "NOW COMMUNICATING" on the LCD, and the PC Interface LED is lit.	Displays the CSI of the other terminal on the LCD, and the communicating LED is lit.	
Memory transmission	N/A	Available	N/A

# Technical Bulletin

**PAGE: 5/31** 

Model: LX7 Date: 31-Jul-97 No: 013

## 5. Reception

Items	LX7	PCFE	Fax modem
Display during	Displays "NOW	Displays the CSI of the other	The
communication	COMMUNICATING on	terminal on the LCD, and the	"OFH/DCD/DTR/DATA"
	the LCD, and the PC	communicating LED is lit.	LED is lit.
	Interface LED is lit.		
Memory reception	N/A	Available	N/A
The end of the	There is no data between	There is some dummy data	There is no data between
received image	<rtc> and <etx></etx></rtc>	between <rtc> and <etx></etx></rtc>	<rtc> and <etx></etx></rtc>
data	<dle>.</dle>	<dle>. (Note 1)</dle>	<dle>.</dle>

#### Note:

1. When using CLASS1 and ECM reception, there is no data between <RTC> and <ETX> <DLE>.

### 6. End of communication

Items	LX7	PCFE	Fax modem
Display at the end of	"NOW COMMUNICATING	The CSI on the LCD	The
communication	on the LCD disappears, the PC	disappears, the	"OFH/DCD/DTR/
	Interface LED goes out, and the		DATA" LED is
	alarm sounds.	out, and the alarm sounds.	lit.
Picking up the handset	Communication with the PC	Communication with the PC	N/A
at the end of	finishes, and then it changes to	finishes, and then it changes	
communication	the handset mode.	to the handset mode.	
Journal report	PC - Fax communications are	PC - Fax communications are	N/A
	not printed on the Journal	printed on the Journal report.	
	report.		
Error codes	Stored	Stored	N/A
Communication error	Not displayed	Displays the communication	N/A
		error and the communication	
		error LED is lit.	

### 7. Others

Items	LX7	PCFE	Fax modem
Class 2.0	N/A	N/A	Not tested
Error code between the PC interface	N/A	N/A	N/A
NEST Autoroute during PC scanning	N/A	Available	N/A

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## LX7 PC Fax and LX7 Standalone FAX

Items	PC Fax	Standalone
Detection of the polarity	N/A	Depends on the System Parameter
change		settings.
Unsupported dialing	Unsupported dialing codes are	Each unsupported dialing code is changed
codes	ignored.	to "-"(pause).
Pause code	"," (comma)	"-" (hyphen)
Picking up the handset at		The buzzer sounds, like for an operator
the end of	and then it changes to handset mode.	call. After the stop key is pushed, the
communication		machine changes to handset mode.
Display during	Displays "NOW	Displays the CSI of the other terminal on
communication	COMMUNICATING" on the LCD,	the LCD, and the communicating LED is
	and the PC Interface LED is lit.	lit.
Modem speed ability	Depends on the PC application	Depends on the System Parameter
		settings.
Monitor speaker on/off	Depends on the PC application	Depends on the System Parameter
		settings.
Telephone line type	Depends on the PC application	Depends on the System Parameter
(DP/DTMF) selection		settings.
Error display	The communication error is not	The communication error is displayed and
	displayed	the communication error LED is lit.
Error code	Stored	Stored
Journal report	The communication is not printed on	The communication is printed on the
	the Journal report.	Journal report.
NEST Autoroute	N/A	Available
Number of redials/redial	Depends on the PC application	Depends on the System Parameter
interval		settings.
Ringing signal detection	Sends the "RING" command to the	Ignores the ringing signal
when reception is	PC. Sends "NO CARRIER" to	
disabled	respond to the "ATA" command from	
(e.g., while printing a	the PC.	
report)		
Number of ringing	Sends the "RING" command to the	Depends on the System Parameter
detections	PC every ring.	settings.

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### **PC** Fax applications

This section gives the command control sequences for several applications. The AT command sequences for transmission and reception are also given.

#### Compression

	Class1				Class2		
	ECM	MH	MR	MMR	BFT	MH	MR
BitWare	X	О	X	X	X	О	X
WinFaxPro 4.0	О	О	X	X	О	О	X
WinFaxPro 7.0	О	О	О	О	О	О	О
LaserFax	О	О	О	О	О	О	X
DelrinaFaxPRO	X	О	X	X	X	О	X
MS-FAX	О	О	О	О	О	О	X

Paper width, resolution and the changeability of these during communication.

- Transmission -	Paper width	Resolution	Paper width change	Resolution change
BitWare	A4	STD/DTL	N/A	N/A (Note 1)
WinFaxPro 4.0	A4	STD/DTL	N/A	N/A (Note 1)
WinFaxPro 7.0	A4	STD/DTL	N/A	N/A (Note 1)
LaserFax	A4/B4/A3	STD/DTL	Available (Note 2)	Available
DelrinaFaxPRO	A4	STD/DTL	N/A	N/A (Note 1)
MS-FAX	A4/B4/A3	STD/DTL	N/A	N/A

- Reception -	Paper width	Resolution	Paper width change	Resolution change
BitWare	A4	STD/DTL	N/A	Available (Note 3)
WinFaxPro 4.0	A4	STD/DTL	N/A	Available (Note 4)
WinFaxPro 7.0	A4	STD/DTL	N/A	Available (Note 3)
LaserFax	A4/B4/A3	STD/DTL	Available	Available
DelrinaFaxPRO	A4	STD/DTL	N/A	Available (Note 4)
MS-FAX	A4/B4/A3	STD/DTL	N/A (Note 5)	N/A (Note 5)

#### Notes:

- 1. All pages are transferred in detail resolution if any of them are in detail resolution.
- 2. If the receiver terminal cannot output in the paper width that is sent, the application will disconnect the line
- 3. If the application receives pages in different resolutions, the pages in each resolution are stored in different files.
- 4. Even if the application receives pages in different resolutions, the pages received in the different resolutions will be changed to the resolution used for the first page.
- 5. The application can receive EOM, but the application cannot receive a page after changing the resolution or/and paper width, and the application does not send out any response. The sender terminal generates a transmission error (3<sup>l</sup> try failure for the post message command).

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#### BitWare

- 1. If the application receives pages in different resolutions, pages at each resolution are stored in separate files.
  - For example: When two pages are received in STD resolution, then one page in DTL resolution is received, the application stores to the LOG that a two-page and a one-page file are received.
- 2. All pages are transferred in detail resolution if any of them are selected in the detail resolution.
- 3. The error pages are transferred again in the Class 1 mode. The error pages are not transferred again in the Class 2 mode.
- 4. If the transmission class is changed, the modem rate will be fixed as the modem rate for the previouse communication.
- 5. The last two bytes of image data will be lost in the Class 2 mode at a 2400bps/4800bps modem rate.

#### AT command sequence

1. Transmission	
PC	LX7
AT	
	OK
AT&FV1&C1&D2	
	OK
ATS0=0S7=120S8=10	
	OK
ATE0V1X4M1L1	
	OK
AT+FCLASS=2	
	OK
ATFDIS?	
	(0-1), (0-5), (0-2), (0),
	(0), (0), (0-7)
	OK
AT+FDIS=1,5,0,2,0,0,0,0	
	OK
AT+FLID=" 20 digits "	
	OK
ATDT317	
	+FCON
	+FDIS=1,5,0,2,0,0,0,0
AT+FDT	
	+FDCS:0,5,0,2,0,0,0,0
	CONNECT

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r	
	OK
AT+FET=2	
	+FPTS:1
	+FHNG:0
	OK
ATH0	
	OK
AT+FCLASS=0	
	OK
ATZ	
	OK
AT	
	OK

2. Reception

. Reception	
PC	LX7
AT	
	OK
AT&FV1&C1&D2	
	OK
ATS0=0S7=120S8=2	
	OK
ATS0=0S7=120S8=2	
	OK
ATE0V1X0M1L1	
	OK
	RING
AT+FDIS?	
	(0-1), (0-5), (0-2), (0),
	(0), (0), (0-7)
	OK
AT+FDIS=1,5,0,2,0,0,0,0	
	OK
AT+FAA=0;+FCR=1	
	OK
AT+FLID=" 20 digits	
- "	
	OK
ATA	
	+FCON

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•	
	+FTSI:" 20 digits"
	+FDCS:2,5,0,2,0,0,0,1
	OK
AT+FDR	
	+FCFR
	CONNECT
<dc2></dc2>	
	Image data
	+FPTS:1
	+FET:2
	OK
AT+FDR	
	+FHNG:0
	OK
ATH+FCLASS=0	
	OK
ATH0Z	
	OK
AT	
	OK
AT&FV1&C1&D2	
	OK
ATS0=0S7=120S8=2	
	OK
ATE0V1X0M1L1	
	OK

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#### WinFaxPRO 4.0

- 1. During reception, if a "RING" command is received after sending the "AT+ATA" command, WinFaxPRO 4.0 sends "AT+ATA" again. The other fax applications do not send the "AT+ATA" command again.
- 2. Even if the application receives RTN, it finishes the communication as successful. RTN Retrain Negative: This informs the TX side that the page of data was not received correctly.
- 3. If "1234T5678" are input as the dialing numbers, the application separates the dialing codes and sends "ATDP1234;" and "ATX3DT5678" to the modem.

  The other applications send "1234T5678" as "ATDP1234T5678".
- 4. If the application receives pages in different resolutions, the application handles all received pages in the first page resolution. For example, when the application receives the page at STD resolution, and the 2<sup>nd</sup> page at DTL resolution, the page is displayed normally but the page is displayed at STD resolution. It seems that the 2<sup>nd</sup> page has been enlarged in the sub scan direction.
- 5. The modem rate setting is ignored for Class2.
- 6. If "Detect busy tone" is set to "No" in the application, the application ignores the BUSY" command.

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### AT command sequence

1. Transmission

1. Transmission	
PC PC	LX7
ATE0V1	
	OK
AT&F&C1&D2S7=55	
	OK
ATS8=2	
	OK
ATE0	
	OK
AT&D2	
	OK
ATV1M1L1X4	
	OK
ATS0=0 I3	
	Facsimile Modem Type A
	OK
AT+FMFR?	
	RICOH
	OK
AT+FLID=" - 20digits - "	
	OK
AT+FDIS=0	
	OK
AT+FBOR=0;+FCLASS=2	
	OK
ATDT317	
	+FCON
	+FDIS:0,5,0,2,0,0,0,3
	OK

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2. Reception

2. Reception	
	LX7
	RING
AT+FLID=" - 20digits - "	
	OK
AT+FCLASS=2	
	OK
ATA	
	+FCON
	+FTSI:" 20digits – "
	+FDCS:1,5,0,2,0,0,0,3
	OK
AT+FDR	
	+FCFR
	CONNECT
<dc2></dc2>	
	Image Data
	+FPTS:1
	+FET:2
	OK
AT+FDR	
	+FHNG:0
	OK
ATH0	
	OK
AT	
	OK

#### WinFaxPRO 7.0

- 1. Even if the application receives "+FTSI=xxx" after receiving "+FCON", the application does not display it.
- 2. Flow control is set to "OFF" as the default.In other applications, flow control is set to "ON" as the default.
- 3. If the parameter values of the "AT+FDIS" and "AT+FDCS" commands are the same as the default values, the application does not send out the default values with the "AT+FDIS" and "AT+FDCS" commands. For example: "AT+FDIS=1,5"

  Other applications send out the default values with the "AT+FDIS" and "AT+FDCS" commands. For example: "AT+FDIS=1,5,0,0,0,0,0,0"

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## AT command sequence

1. Transmission

1. Transmission	
PC	LX7
. m	
AT	O.Y.
4 FDF-03 / 4	OK
ATE0V1	O.Y.
A TTO TTO CI O DOCE . 5.5	OK
AT&F&C1&D2S7=55	OW
A #EPOVIA 0 DOGO 000 0	OK
ATE0V1&D2S0=0S8=2	OV
A TEVO	OK
ATI3	
	Facsimile Modem Type A
AT EGD 1 EDOD 0 EDGG 15	OK
AT+FCR=1;+FBOR=0;+FDCC=1,5	OV
A TEOM 1 MOL 2	OK
ATE0V1M2L3	OV
AT. ELID 2 2045-14- 6	OK
AT+FLID=" – 20digits – "	OV
AT. EDIC 15	OK
AT+FDIS=1,5	OV
AT+FCLASS=2	OK
A1+FCLASS=2	OK
ATX4DT317	OK
AIX-DIJII	+FCON
	+FDIS:0,5,0,2,0,0,0,3
	OK
AT+FDT	
1111121	+FDCS:1,5,0,2,0,0,0,1
	CONNECT
	OK
AT+FET=2	
	+FPTS:1
	+FHNG:0
	OK
AT	
	OK
ATH0	
	•

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	OK
AT+FCLASS=0	
	OK
AT	
	OK

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### DelrinaFaxPRO for Macintosh

- 1. The application can receive the A4 width paper only.
- 2. The application needs the <CR> command afte "AT+FCOM".
- 3. The application needs the <CR> <LF> command aftetAT+FET=2" (EOP).
- 4. The default value of the baud rate is 19,200bps.
- 5. The <DLE> <EXT> commands have to be applied just after the RTC pattern at the end of the image data.

### AT command sequence

		•	•	
1.	Transn	118	ssion	

1. Transmission	
PC	LX7
AT	
	OK
AT+FDCC=1	
	OK
AT+FCR=1	
	OK
AT+FLID=" – 20 digits – "	
	OK
ATH+FCLASS=0	
	OK
AT	
	OK
AT+FDIS=0	
	OK
AT+FLID=" – 20 digits – "	
	OK
ATS7=60	
	OK
AT+FBOR=0	
	OK
ATDT317	

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[	+FCON
AT+FDT	
	+FDCS:0,5,0,2,0,0,0,3
	CONNECT
	OK
AT+FET=2	
	+FPTS:1
	+FHNG:0
	OK
AT+FCLASS=0	
	OK
AT	
	OK
2. Reception	
PC	LX7
ATZ	
	OK
AT&D2E0V1S0=0	
	OK
AT+FCLASS=?	
	0,1,2
	OK
ATI3	
	Facsimile Modem Type A
A FEVO	OK
ATI0	OW
A (TEXA)	OK
ATE0V1	OV
AT+FPHCTO=255	OK
A1+FFIC10=233	OK
AT+FCLASS=2	OK
AITI CLASS-2	OK
AT	
711	OK
AT+FDCC=1	
	OK
AT+FCR=1	
	OK
AT+FLID=" - 20 digits - "	
	1

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	OK
	RING
ATA	
	FCON
	+FTSI:" – 20 digits – "
	+FDCS:2,5,0,2,0,0,0,3
	OK
AT+FDR	
	+FCFR
	CONNECT
<dc2></dc2>	
	Image Data
	+FPTS:1
	+FET:0
	OK
AT+FDR	
2.50	CONNECT
<dc2></dc2>	
	Lucia Deta
	Image Data
	+FPTS:1
	+FET:2
	OK
AT+FDR	OK
MIIDK	+FHNG:0
	OK
ATH+FCLASS=0	
	OK
ATZ	
.112	OK
AT&F	
	OK
AT&D2E0V1S0=0	
	OK
AT+FCLASS=?	
	0,1,2
	OK
ATI3	
	Facsimile Modem Type A
•	

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	OK
ATIO	
	OK
ATE0V1	
	OK
AT+FPHCTO=255	
	OK
AT+FCLASS=2	
	OK
AT	
	OK
AT+FDCC=1	
	OK
AT+FCR=1	
	OK
AT+FLID=" – 20 digits – "	
	OK

### **LaserFax**

- 1. When receiving image data from the modem in Class2 mode, the application sends out the <DC1> command. Under Class2 regulations, the PC sends out <DC2> to receive the image data.
- 2. If the application does not receive the +PTS:1" command after sending AT+FET=2" within 100ms, the application sends out AT+FET=2 again. If the application receives the OK" command in reply to "AT+FET=2", the application sends out the command again Other applications do not send "AT+FET=2" twice.
- 3. If the application receives the "RING" command again after sending out the "ATA" command, the application sends out "ATA" again.
- 4. When transferring the received document to the other terminal, if the other terminal cannot transfer paper width information, the application will disconnect the line.
- 5. The application assesses the results of the received image data, and the decides the response (MCF or RTN) to the post message command. In the other applications, the response is fixed at the MCF command.

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### AT command sequence

1. Transmission

1. Transmission	
PC	LX7
AT&D2V1EQ	
	OK
ATL2M1S0=0	
	OK
AT+FCLASS=2	
	OK
AT+FVRFC=0;+FDFFC=0;	
+FLNFC=0;+FWDFC=0	
	OK
AT+FLPL=0;+FSPL=0	
	OK
AT+FAA=0	
	OK
AT+FCQ=0	
	OK
AT+FBOR=0	
	OK
AT+FREL=0	
	OK
AT+FCR=1	
200.00	OK
AT+FBUG=0	
	OK
AT+FECM=0	
	OK
AT+FPHCTO=30	
	OK
ATS7=90	
	OK
AT+FMINSP=0	
	OK
AT+FDCC=1,5,0,2,0,0,0,0	
,-,-,,-,-,-,-,-,-,-,-	OK
AT+FDIS=1,5,0,2,0,0,0,0	
-,-,-,-,-,0,0,0	OK
ATM1X4	
	OK
Ļ	

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	1
AT+FLID=" – 20 digits – "	
	OK
ATDT317	
	FCON
	+FDIS:1,5,0,2,0,0,0,0
	OK
AT+FLID=" - 20 digits - "	
	OK
ATDT317	
	FCON
	+FDIS:1,5,0,2,0,0,0,0
	OK
AT+FDIS=1,5,0,2,0,0,0,0	
	OK
	+FDCS:1,5,0,2,0,0,0,1
	CONNECT
	OK
AT+FET=2	
	(100 ms)
AT+FET=2	
	+FPTS:1
	+FHNG:0
	OK
AT+FK	
	OK
AT+FCLASS=0	
	OK

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2. Reception

RING  AT&D2V1EQ  OK  ATL2M1S0=0  OK  AT+FCLASS=2  OK  AT+FVRFC=0;+FDFFC=0; +FLNFC=0;+FWDFC=0  OK  AT+FLPL=0;+FSPL=0  OK  AT+FAA=0  OK  AT+FCQ=0  OK  AT+FBOR=0  OK  AT+FBOR=0  OK  AT+FREL=0  OK  AT+FCR=1  OK  AT+FECM=0  OK  AT+FBUG=0  OK  AT+FBUG=0  OK  AT+FDCC=1,5,2,2,0,0,1  OK  AT+FLID=" - 20 digits - "  OK  OK  OK  OK  OK  OK  OK  OK  OK  O	PC PC	LX7
AT&D2V1EQ OK  ATL2M1S0=0 OK  AT+FCLASS=2 OK  AT+FVRFC=0;+FDFFC=0; +FLNFC=0;+FWDFC=0 OK  AT+FLPL=0;+FSPL=0 OK  AT+FAA=0 OK  AT+FAA=0 OK  AT+FCQ=0 OK  AT+FBOR=0 OK  AT+FREL=0 OK  AT+FREL=0 OK  AT+FCR=1 OK  AT+FCR=1 OK  AT+FCR=1 OK  AT+FCR=1 OK  AT+FCM=0 OK  AT+FCM=0 OK  AT+FDM=0		PING
ATL2M1S0=0 OK  AT+FCLASS=2 OK  AT+FVRFC=0;+FDFFC=0; +FLNFC=0;+FWDFC=0 OK  AT+FLPL=0;+FSPL=0 OK  AT+FAA=0 OK  AT+FCQ=0 OK  AT+FBOR=0 OK  AT+FREL=0 OK  AT+FREL=0 OK  AT+FCR=1 OK  AT+FBUG=0 OK  AT+FBUG=0 OK  AT+FECM=0 OK  AT+FECM=0 OK  AT+FDCC=1,5,2,2,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,1 OK  AT+FLID=" - 20 digits - " OK	AT&D2V1EQ	KINO
OK  AT+FCLASS=2  OK  AT+FVRFC=0;+FDFFC=0; +FLNFC=0;+FWDFC=0  OK  AT+FLPL=0;+FSPL=0  OK  AT+FAA=0  OK  AT+FAA=0  OK  AT+FBOR=0  OK  AT+FREL=0  OK  AT+FREL=0  OK  AT+FCR=1  OK  AT+FBUG=0  OK  AT+FBUG=0  OK  AT+FECM=0  OK  AT+FPHCTO=30  OK  AT+FPHCTO=30  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,1  OK  AT+FLID="-20 digits - "  OK		OK
AT+FCLASS=2 OK  AT+FVRFC=0;+FDFFC=0; +FLNFC=0;+FWDFC=0 OK  AT+FLPL=0;+FSPL=0 OK  AT+FAA=0 OK  AT+FCQ=0 OK  AT+FBOR=0 OK  AT+FREL=0 OK  AT+FREL=0 OK  AT+FREL=0 OK  AT+FREL=0 OK  AT+FREL=0 OK  AT+FBUG=0 OK  AT+FBUG=0 OK  AT+FECM=0 OK  AT+FECM=0 OK  AT+FECM=0 OK  AT+FDCC=1,5,2,2,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,1 OK  AT+FLID="-20 digits - " OK	ATL2M1S0=0	
OK  AT+FVRFC=0;+FDFFC=0; +FLNFC=0;+FWDFC=0  OK  AT+FLPL=0;+FSPL=0  OK  AT+FAA=0  OK  AT+FAA=0  OK  AT+FAA=0  OK  AT+FCQ=0  OK  AT+FBOR=0  OK  AT+FBOR=0  OK  AT+FREL=0  OK  AT+FCR=1  OK  AT+FCR=1  OK  AT+FCR=1  OK  AT+FBUG=0  OK  AT+FECM=0  OK  AT+FPHCTO=30  OK  AT+FPHCTO=30  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,1  OK  AT+FLID="-20 digits-"  OK		OK
AT+FVRFC=0;+FDFFC=0; +FLNFC=0;+FWDFC=0  OK  AT+FLPL=0;+FSPL=0  OK  AT+FAA=0  OK  AT+FCQ=0  OK  AT+FBOR=0  OK  AT+FREL=0  OK  AT+FREL=0  OK  AT+FREL=0  OK  AT+FCR=1  OK  AT+FBUG=0  OK  AT+FECM=0  OK  AT+FPHCTO=30  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID="-20 digits - "  OK	AT+FCLASS=2	OW
+FLNFC=0;+FWDFC=0 OK AT+FLPL=0;+FSPL=0 OK AT+FAA=0 OK AT+FCQ=0 OK AT+FCQ=0 OK AT+FBOR=0 OK AT+FBUG=0 OK AT+FREL=0 OK AT+FCR=1 OK AT+FCR=1 OK AT+FCM=0 OK AT+FCM=0 OK AT+FBUG=0 OK AT+FECM=0 OK AT+FECM=0 OK AT+FECM=0 OK AT+FPHCTO=30 OK AT+FPHCTO=30 OK AT+FMINSP=0 OK AT+FDCC=1,5,2,2,0,0,1 OK AT+FDCC=1,5,2,2,0,0,0,1 OK AT+FDCC=1,5,2,2,0,0,0,1 OK	AT EVDEC-0: EDEEC-0:	UK
OK  AT+FLPL=0;+FSPL=0  OK  AT+FAA=0  OK  AT+FAA=0  OK  AT+FCQ=0  OK  AT+FBOR=0  OK  AT+FREL=0  OK  AT+FREL=0  OK  AT+FCR=1  OK  AT+FCR=1  OK  AT+FECM=0  OK  AT+FECM=0  OK  AT+FECM=0  OK  AT+FPHCTO=30  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID="-20 digits - "  OK		
AT+FLPL=0;+FSPL=0 OK AT+FAA=0 OK AT+FCQ=0 OK AT+FBOR=0 OK AT+FREL=0 OK AT+FREL=1 OK AT+FCR=1 OK AT+FBUG=0 OK AT+FECM=0 OK AT+FECM=0 OK AT+FECM=0 OK AT+FPHCTO=30 OK AT+FPHCTO=30 OK AT+FPHCTO=30 OK AT+FDCC=1,5,2,2,0,0,0,1 OK AT+FDCC=1,5,2,2,0,0,0,1 OK AT+FDCC=1,5,2,2,0,0,0,1 OK AT+FLID="-20 digits - " OK	112110 0,11 (1210 0	OK
AT+FAA=0 OK AT+FCQ=0 OK AT+FBOR=0 OK AT+FREL=0 OK AT+FCR=1 OK AT+FBUG=0 OK AT+FECM=0 OK AT+FECM=0 OK AT+FPHCTO=30 OK AT+FPHCTO=30 OK AT+FMINSP=0 OK AT+FDCC=1,5,2,2,0,0,1 OK AT+FDCC=1,5,2,2,0,0,0,1 OK AT+FLID="-20 digits - " OK	AT+FLPL=0;+FSPL=0	
OK  AT+FCQ=0  OK  AT+FBOR=0  OK  AT+FREL=0  OK  AT+FCR=1  OK  AT+FBUG=0  OK  AT+FECM=0  OK  AT+FECM=0  OK  AT+FECM=0  OK  AT+FPHCTO=30  OK  AT+FPHCTO=30  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID="-20 digits - "  OK		OK
AT+FCQ=0 OK AT+FBOR=0 OK AT+FREL=0 OK AT+FCR=1 OK AT+FBUG=0 OK AT+FECM=0 OK AT+FECM=0 OK AT+FECM=0 OK AT+FPHCTO=30 OK AT+FPHCTO=30 OK AT+FMINSP=0 OK AT+FDCC=1,5,2,2,0,0,0,1 OK AT+FDCC=1,5,2,2,0,0,0,1 OK AT+FLID="-20 digits - " OK	AT+FAA=0	
OK  AT+FBOR=0  OK  AT+FREL=0  OK  AT+FCR=1  OK  AT+FBUG=0  OK  AT+FECM=0  OK  AT+FPHCTO=30  OK  ATS7=90  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID="-20 digits - "  OK	A. F. G.O. O.	OK
AT+FBOR=0 OK  AT+FREL=0 OK  AT+FCR=1 OK  AT+FBUG=0 OK  AT+FECM=0 OK  AT+FPHCTO=30 OK  ATS7=90 OK  AT+FMINSP=0 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FLID="-20 digits - " OK	AT+FCQ=0	OV
OK  AT+FREL=0  OK  AT+FCR=1  OK  AT+FBUG=0  OK  AT+FECM=0  OK  AT+FPHCTO=30  OK  ATS7=90  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID="-20 digits - "  OK  OK  OK	AT+FROR-0	OK
AT+FREL=0 OK  AT+FCR=1 OK  AT+FBUG=0 OK  AT+FECM=0 OK  AT+FPHCTO=30 OK  ATS7=90 OK  AT+FMINSP=0 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FLID=" - 20 digits - " OK	ATTIBOR-0	OK
AT+FCR=1 OK  AT+FBUG=0 OK  AT+FECM=0 OK  AT+FPHCTO=30 OK  ATS7=90 OK  AT+FMINSP=0 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FLID="-20 digits-" OK	AT+FREL=0	011
OK  AT+FBUG=0  OK  AT+FECM=0  OK  AT+FPHCTO=30  OK  ATS7=90  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID="-20 digits - "OK		OK
AT+FBUG=0 OK  AT+FECM=0 OK  AT+FPHCTO=30 OK  ATS7=90 OK  AT+FMINSP=0 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FLID=" - 20 digits - " OK	AT+FCR=1	
OK  AT+FECM=0  OK  AT+FPHCTO=30  OK  ATS7=90  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID="-20 digits-"  OK		OK
AT+FECM=0 OK  AT+FPHCTO=30 OK  ATS7=90 OK  AT+FMINSP=0 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FLID="-20 digits - "OK	AT+FBUG=0	OV
OK  AT+FPHCTO=30  OK  ATS7=90  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID=" - 20 digits - "  OK	AT FECM-0	OK
AT+FPHCTO=30 OK  ATS7=90 OK  AT+FMINSP=0 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FLID=" - 20 digits - " OK	AT+FECM=0	OK
OK  ATS7=90  OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID="-20 digits - "  OK	AT+FPHCTO=30	OK
OK  AT+FMINSP=0  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID=" - 20 digits - "  OK		OK
AT+FMINSP=0 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FDCC=1,5,2,2,0,0,0,1 OK  AT+FLID=" - 20 digits - " OK	ATS7=90	
OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  OK  AT+FLID="-20 digits - "  OK		OK
AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  AT+FLID=" - 20 digits - "  OK	AT+FMINSP=0	OV
OK  AT+FDCC=1,5,2,2,0,0,0,1  OK  OK  AT+FLID=" - 20 digits - "  OK	AT. EDCC 15220001	OK
AT+FDCC=1,5,2,2,0,0,0,1 OK AT+FLID=" - 20 digits - " OK	A1+FDCC=1,5,2,2,0,0,0,1	OK
OK AT+FLID=" – 20 digits – " OK	AT+FDCC=1 5 2 2 0 0 0 1	OK
AT+FLID=" – 20 digits – " OK	111 11 2 2 2 - 1,0,2,2,0,0,0,1	OK
	AT+FLID=" – 20 digits – "	
ATA		OK
	ATA	

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_	
	FCON
+FDIS:1,5,0,2,0,0,0,0	
	OK
	+FTSI=" - 20digits - "
	+FDCS:1,5,0,2,0,0,0,3
	OK
AT+FDR	
	+FCFR
	CONNECT
<dc1></dc1>	
	Image Data
	+FPTS:1
	+FET:2
	OK
AT+FPTS=1:+FDR	
	+FHNG:0
	OK
AT+FK	
	OK
AT+FCLASS=0	
	OK

## Technical Bulletin

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### MS-FAX

- 1. The application ignores the "NO CARRIER" command when received in reply to the "ATDTxxx" command. Other applications go back to the standby mode when they receive the "NO CARRIER" command.
- 2. In Class1 transmission, ECM will be available in MMR compression mode only. Other applications can transmit in MH-ECM, MR-ECM, and MMR-ECM modes.
- 3. If the modem speed falls back from 14,400 bps to 2,400 bps for receiving the FTT signal in reply to TCF, the application disconnects the line.
- 4. After receiving DIS, the application sends the session parameters (AT+FDIS, AT+FDCC) to the modem. Other applications send the session parameters before dialing.
- The application assesses the results of the received image data, and the application decides the response (MCF or RTN) to the post message command. In other applications, the response is fixed at the MCF command.

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Model: LX7 Date: 31-Jul-97 No: 013

### AT command sequence

	<b>T</b>	•	
1	Transn	11	CCION
1.	1 I an sn	ш	301011

1. Transmission	
PC	LX7
AT	
	OK
ATE0V1	
	OK
AT	
	OK
AT&FS0=0E0V1Q0	
	OK
AT	
	OK
ATI3=2	
	Facsimile Modem Type A
	OK
ATS7=255&D3	
	OK
ATX4S8=2M1L2	
	OK
AT	
	OK
ATE0V1	
	OK
AT	
	OK
ATS0=0	
	OK
AT+FCLASS=2	
	OK
AT+FREM?	
	RICOH
AT+FMDL?	
	Facsimile Modem Type A
	OK
AT+FLID=" – 20 digits – "	
	OK
AT+FBUG=0	
	OK

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AT+FDIS?	
	1,5,0,0,0,0,0,0
AT+FBOR=0	
	OK
ATDT317	
	+FCON
	+FDIS:0,5,0,2,0,0,0,3
	OK
AT+FDT	
	OK
	+FDCS:1,5,0,2,0,0,0,1
	CONNECT
	OK
AT+FET=2	
	+FPTS:1
	+FHNG:0
	OK
ATH0	
	OK
AT+FCLASS=0	
	OK
AT	
	OK
ATS0=0	
	OK
AT	
	OK
ATE0V1	
	OK
AT	
	OK

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Model: LX7 Date: 31-Jul-97 No: 013

2. Reception

2. Reception	
PC	LX7
	RING
AT	
	OK
AT&FS0=0E0V1Q0	
	OK
AT	
	OK
ATS7=255&D3	
	OK
ATX4M1L2	
	OK
AT+FCLASS=2	
	OK
AT	
	OK
AT+FMFR?	
	RICOH
	OK
AT+FMDL?	
	Facsimile Modem Type A
	OK
AT+FDIS?	
	1,5,2,2,0,0,0,
	OK
AT+FDCC=1,5,2,2,0,0,0,	
	OK
AT+FDI=1,5,2,2,0,0,0,	
	OK
AT+FCR=1	
	OK
AT+FCQ=0	
	OK
AT+FBUG=0	
	OK
AT+FBOR=0	

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	OK
AT+FLID=" - 2( digits - "	
	OK
ATA	
	+FCON
	+FTSI:" – 20 digits – "
	+FDCS:1,5,0,2,0,0,0,3
	OK
AT+FDR	
	+FCFR
	CONNECT
<dc2></dc2>	
	Image Data
	+FPTS:1
	+FET:2
	OK
AT+FPTS=1	
	OK
AT+FDR	
	+FHNG:0
	OK
ATH0	
	OK
AT+FCLASS=0	
	OK
AT	
	OK
ATE0V1	
	OK
ATS0=0	
	OK
•	•

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Model: LX7 Date: 31-Jul-97 No: 013

## **Appendix: FAX CLASS 2 COMMANDS**

Command	Function	
Service Class ID		
+FCLASS=	Service Class	
Class 2 Action Commands		
D	Originate a call	
Α	Answer a call	
+FDT=	Data Transmission	
+FET=N	Transmit Page Punctuation	
+FDR	Begin or Continue Phase C Receive Data	
+FK	Session Termination	
Class 2 DCE Responses		
+FCON	Facsimile Connection Response	
+FDCS:	Report Current Session	
+FDIS:	Report Remote Identification	
+FCFR	Indicate Confirmation to Receive	
+FTSI:	Report the Transmit Station ID	
+FCSI:	Report the Called Station ID	
+FPTS:	Page Transfer Status	
+FET:	Post Page Message Response	
+FHNG	Call Termination with Status	
Class 2 Session Parameters		
+FMFR?	Identify Manufacturer	
+FMDL?	Identify Model	
+FREV?	Identify Revision	
+FDCC=	DCE Capabilities Parameters	
+FDIS=	Current Session Parameters	
+FDCS=	Current Session Results	
+FLID=	Local ID String	
+FCR	Capability to Receive	
+FPTS=	Page Transfer Status	
+FAA	Adaptive Answer	
+FBUF?	Buffer Size (Read Only)	
+FPHCTO	Phase C Time Out	
+FAXERR	Fax Error Value	
+FBOR	Phase C Data Bit Order	

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Model: FX4, FX6, FX6MK2, FX6CD, FX7, LX7, LSO, AD1 Date			e: 31-Aug-97		No: 005	
Subject: Novell Nest Autoroute Function F			Prepared by: S.Yoshio			
From: 2nd Techn	ical Support Section					
Classification:	☐ Troubleshooting	☐ Part inf	ormat	tion	Action	n required
	☐ Mechanical	☐ Electric	al		⊠ Service	ce manual revision
	☐ Paper path	Transm	it/rec	eive	Retro	fit information
	Other ( )					

The NEST card has been released for Nest Autoroute function in fax machines and for fax units in the AD series.

This technical bulletin contains the revisions to the Nest Autoroute service manual. Procedures for reading and writing user-programmed data by RDS have been added. Only the Installation section was changed.

For details on the models that can use the NEST card, please check the product launch information for the models.

RC	RE	ASIA	
*	*	*	



Model: FX4, FX6, FX6MK2, FX6CD, FX7, LX7, LSO, AD1 | Date: 31-Aug-97 | No: 005

INSTALLATION
INSTALLING THE NEST CARD

May 20th,1997

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### 2.2. INSTALLING THE NEST CARD

### **△** CAUTION

Before installing the NEST card, do the following:

- 1.Print out all messages stored in the memory.
- 2.Print out the lists of user programmed items and the system parameter list.

### 2.2.1. Function Upgrade Card Type 140 Plus Novell® NEST<sup>TM</sup>

#### **Note**

 The following installation procedure initializes (erases) all the user-programmed data stored in the card, if the Function Upgrade Card already installed in the machine is replaced with a NEST card.

### **Installation Procedure (Without a Function Upgrade Card)**

- Turn off the main switch.
- Install the battery on the NEST card.
- Turn on the battery switch.
- Install the NEST card in the slot.
- Turn on the main switch.
- Print the system parameter list and make sure that "NEST" is listed as an option on the list.

# Installation Procedure (Replacing a Function Upgrade Card with the NEST card)

- Read and back-up the user-programmed data stored in the Function Upgrade Card with RDS.
- Turn off the main switch.
- Remove the Function Upgrade Card from the slot.
- Install the battery on the NEST card and turn on the battery switch.
- Install the NEST card in the slot.
- Turn on the main switch.
- Print the system parameter list and make sure that "NEST" is listed as an option on the list.
- Write the backed-up data to the NEST card.



No: 005

May 20th,1997

Model: FX4, FX6, FX6MK2, FX6CD, FX7, LX7, LSO, AD1 Date: 31-Aug-97

**INSTALLATION** 

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**INSTALLING THE NEST CARD** 

When the NEST card is replaced with another NEST card, do the following so the machine can recognize the new card.

- 1. Turn off the main switch
- 2. Remove the old card.
- 3. Turn on the machine without the card and turn off.
- 4. Install the new card.
- 5. Turn on the main switch.

### **△** CAUTION

The IC card contains a lithium battery.

The danger of explosion exists if a battery of this type is incorrectly replaced. Replace only with the same or an equivalent type recommended by the manufacturer. Discard used batteries in accordance with the manufacturer's instructions.



Model: FX4, FX6, FX6MK2, FX6CD, FX7, LX7, LSO, AD1 Date: 31-Aug-97 No: 005

INSTALLATION
INSTALLING THE NEST CARD

May 20th,1997

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### 2.2.2. Feature Expander Type 100 2M Plus Novell NEST

#### **Note**

 The following installation procedure initializes (erases) all the data stored in the card, if the Feature Expander already installed in the machine is replaced with a NEST card.

### **Installation Procedure**

- Turn off the main switch.
- Install the NEST card in the slot in the machine.
- Turn on the main switch.
- Print the system parameter list and make sure that "NEST" is listed as an option on the list.

# When the NEST card is replaced with another NEST card, do the following so the machine can recognize the new card.

- 1. Turn off the main switch.
- 2. Remove the old card.
- 3. Turn on the machine without the card and then turn off.
- 4. Install the new card.
- 5. Turn on the main switch.

# RIGOH

# Technical Bulletin

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Model: F/LX7			Dat	te: 15-Dec-97		No: 014
Subject: Release Notes for L17 Winstyler T175 Version 3.1 F1			Prepared by: K. Moriizumi		oriizumi	
From: QAC Field In	formation Dept.					
Classification:	Troubleshooting	☐ Part info	orma	ition Ac	ction	required
	☐ Mechanical	☐ Electric	al	☐ S∈	ervice	e manual revision
	☐ Paper path	☐ Transm	ıit/rec	ceive 🖂 Re	etrofit	t information
	☐ Other ( )					

No	Problem	Countermeasure	OS
1	The COM port select window is shown when Windows 3.1 is started. (RE requested that the COM port select window not be shown.)	The COM port select window is not shown when Windows 3.1 is started, and the COM port default setting is changed from "Disable" to "COM4".	Win3.1
2	The default button doesn't work in the GDI setting dialog.	The software was modified.	Win3.1
3	Image data that is received by the BVRP Winfax 4.02 cannot be printed out.	The software was modified.	Win95
4	Comredirector does not work on some PCs.	The software was modified.	Win95
5	The Shut Down feature of Windows 95 does not work correctly when "Client32" is installed. "Client 32" is a network driver software for Novell NetWare.	The software was modified.	Win95
6	The first window of the test page printing is the system modal style. If the window is the system modal style, the user cannot select any other application.	The window was changed to be the normal style.	Win3.1 Win95
7	When installing Winstyler, the mouse pointer cannot be moved outside the bitmap that is displayed first.	The mouse pointer can be moved outside the bitmap display.	Win3.1 Win95
8	The uninstaller may affect the printer driver settings for the Aficio 200.	The uninstaller was changed to keep the Aficio 200 printer driver settings unchanged.	Win3.1 Win95
9	The instruction page of the Report style duplex printing shows "Top first". It should be "Bottom first".	This was changed to "Bottom first".	Win3.1 Win95
10	Unknown characters are displayed on the configuration page of Hungary, Czech Republic and Poland versions of Windows.	If Hungary, Czech Republic or Poland versions of Windows are used, the software uses the Arial CE font. Then the unknown characters can be displayed.	Win3.1 Win95

RC	RE	ASIA	
*	*	*	



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### **RTB Correction**

Reissue date: 28-Feb-98

The items in bold italic have been corrected or added.

Model: F/LX7 Date			e: 15-Dec-97	No: 015 <b>B</b>	
Subject: Side Fence Fixing Kit for the Main Paper Tray			Prepared by: K.Moriizumi		
From: QAC Field	Information Dept.				
Classification:	<ul><li>☐ Troubleshooting</li><li>☐ Mechanical</li><li>☐ Paper path</li><li>☐ Other ( )</li></ul>	☐ Part info	al	☐ Servi	n required ce manual revision fit information

### **SYMPTOM**

Skewing occurs sometimes.

### **CAUSE**

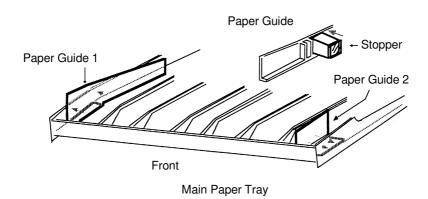
The paper is not fed straight into the machine if the paper side fence of the main paper tray is not put in the correct position. As the paper feed roller is not in the middle of the A4 paper, the paper is not fed correctly into the machine. With only a little pressure, the side fence may get out of position.

### **SOLUTION**

Please mount the following side fence securing parts on the main paper tray if a feed problem has occurred.



The following figure shows where those parts are mounted



Each part is attached to the main paper tray and paper guide with two-sided tape.

RC	RE	ASIA	
*	*	*	

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Model: LX7 Date:			e: 31-Dec-97		No: 016	
Subject: QuickStyler installation problem			Prepared by: K.Moriizumi			
From: QAC Field	Information Dept.					
Classification:		☐ Part inf	ormat	tion	☐ Action	required
	☐ Mechanical	Electric	al		☐ Service	ce manual revision
	☐ Paper path	☐ Transm	it/rec	eive	☐ Retrof	fit information
	Other ( )					

### **SYMPTOM**

QuickStyler cannot be installed on the Mac OS 8.

- Problem procedure -
- 1. Insert the QuickStyler installer into a Macintosh with OS 8.
- 2. Open the installer.
- 3. Select "Easy Install".
- 4. The "Instructions" window will stay blank.
- 5. Click the "Install" button.
- 6. No reaction.

### **SOLUTION**

Do not select "Easy Install" when installing the QuickStyler.

Select "Custom Install"

- 1. Insert the QuickStyler installer into a Macintosh with OS 8.
- 2. Open the installer.
- 3. Select "Custom Install".
- 4. A list of items to install will appear.
- 5. Select them all and click the "Install" button.
- 6. The installation process finishes without a problem.

RC	RE	ASIA	
*			



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Model: General			Date	e: 29-May-98	3	No: 015
Subject: Polarity Detection (Additional Bit Switch)			Prepared by: K. Misugi		⁄lisugi	
From: Technical	Service Department.					
Classification:	☐ Troubleshooting	☐ Part info	ormat	tion	Action	required
	☐ Mechanical	☐ Electric	al		Servic	e manual revision
	☐ Paper path	☐ Transm	it/rec	eive [	Retrof	it information
	☐ Other ( )					

### **SYMPTOM**

This RTB is to clarify the symptom for the following error code. Error code 0-52: Polarity change detected during communication.

### **CAUSE**

Polarity change is detected during communication and the machine disconnects the line in the following conditions (error code 0-52).

- When the machine is at the Rx side (receiving a message) and when G3 bit switch 0B bit 1 (Protocol requirements: Spain) is set to 1 (Enabled).
   The machine immediately disconnects the line when it detects polarity change after receiving DIS/NSF.
- 2. When the machine is at the Tx side (transmitting a message) and when G3 bit switch 03 bit 7 is set to 1.

The machine immediately disconnects the line if it detects polarity change twice after receiving DIS/NSF.

**NOTE:** The following explanation must be added to the service manual. (All F/L series: FX6, FX6Mk2, FX4, FX7, LX7, LSO, LSOMk2, LFO, FR6, FR4)

G3 S	G3 Switch 03							
No	FUNCTION	COMMENTS						
7	Polarity detection during communication  0: Disabled 1: Enabled	1: The machine disconnects the line when it detects polarity change twice after receiving DIS/NSF. This detection is enabled only when the machine is in Tx mode.						

RC	RE	ASIA	
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Model: LFO			Dat	te: 30-Apr-9	99	No.: RH523018	
Subject: Group Number 0				Prepared by: Y. Tamaoka		「amaoka	
From: Technical Service Dept., GTS Division							
Classification:	tion: Troubleshooting Part inform		orma	tion		required	
	☐ Mechanical	Electric	al		☐ Service	ce manual revision	
	☐ Paper path	☐ Transmit/receive		eive	☐ Retrof	rofit information	
	⊠ Other ( )						

This feature is not mentioned in the manuals.

Group number "0" is defined as a "GENERAL GROUP".

When "0" is specified as the Group number, all destinations included in Groups 1 to 3 are programmed as the destination.

Even if the same destination is included in different Groups, the stored documents are sent just once for each destination.

This is the same in F/LX7.

RC	REBV	ASIA	
*	*	*	

Model: Kaiser1, Schmidt1/3, FR4/6, FX4/6, FX7, LSO, LFO, LX7		Date:	11-Jul-00	No.: RGenF021		
Subject: Modem turn-on level (NCU Parameter)			Prepared by: Y.Okunishi			
From: Technical Services Dept., GTS Division						
Classification:	Troubleshooting	ical Electrical		tion	ion required	
				☐ Sei	Service manual revision	
	☐ Paper path			ive Retrofit information		
	Other (Technical Informati	ion)				

Please note the following points when setting the modem turn-on level:

1) Schmidt 3 Service Manual, pg. 4-49:

The maximum value at the address (NCU Parameter) for the modem turn-on level (incoming signal detection level) is 1F(h).

Of the 8 bits, only the first 5 are used.

Therefore, if the input were 20(h), the 5 bits would be 00000.

2) The level is calculated by the following equations:

Kaiser1, Schmidt1/3:

Modem carrier on:  $= (-33dB) - (0.5 \times N)$ 

off: =  $(-33dB) - (0.5 \times N) - (3dB)$ 

FX4/6, LSO, FX7, LSO, LFO, LX7:

Modem carrier on:  $= (-37dB) - (0.5 \times N)$ 

off: =  $(-37dB) - (0.5 \times N) - (3dB)$ 

FR4/6:

Modem carrier on: = -33dB (N= 00h)

= -38dB (N= 01h - 0Ah)= -43dB (N= 0Bh - 14h)

= -48dB (N= 15h - 1Fh)

off: = (above value - 3dB)