

## *Training Material*



- This training material contains information only on the modifications made in the CF2001P/PE as compared with the CF2001. The controller portion is the same controller as used with the CF2001 (Fiery X3e).
- For any information not covered herein, please refer to the CF1501/2001 Modules 1, 2 & 3 in PDS.
- The numbers marked with an asterisk (\*) in a slide indicate that the specific details of that particular statement are given in a linked document.



1) Overview

2) Installation/Set-Up

3) Operation

4) Field Service

5) System Control Block Diagram

# *1) Overview*



1-1 Concept

1-2 System

1-3 Specifications



A high-speed full-color printer offering high image quality and outstanding functions to meet the needs of high Print Volume office users demanding high-speed color printing.

Points of advantage over the competition:

- Controller with a resolution of 600 dpi and a gradation level of 8 bits/dot.
- Printer engine capable of multi-valued exposure equivalent to a writing resolution of 600 x 1,800 dpi.

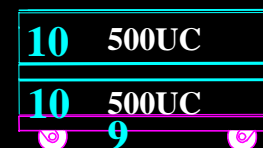
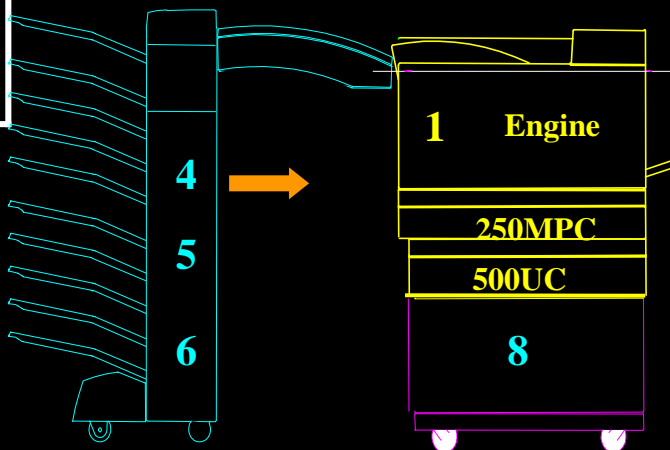
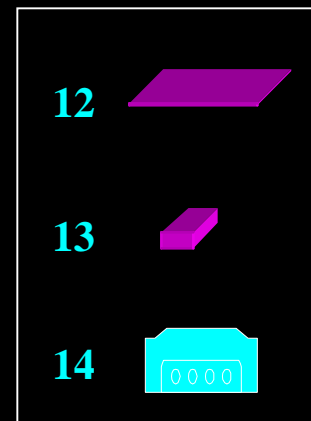
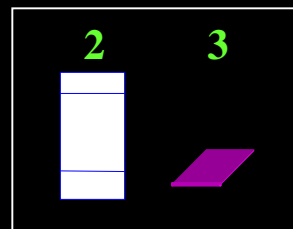
# 1-2 System



1	Engine (#4004) 250MPC/500UC	CF2001P/PE basic configuration (* 1)
2	Fiery X3e	
3	I/F kit I	
4	JS-1002	Options for paper exit sections
5	FN-107	
6	FN-108	
7	AD-14	Options for paper feeding section
8	Copy desk	
9	Copy table	
10	Paper Feed Unit	Other options
11	Large Capacity Cabinet	
12	Dehumidifying heater	
13	Mechanical counter	
14	DT-105	



I/F kit I  
(Control panel + Cooling-air duct)



Fiery X3e



# 1-3 Specifications



## Main Unit Specifications

### Reliability specifications

#### Print Volume (Copies/Month)

	Color	Black
Average	5 k	1 k
Range	1.5~5 k	0.5~1 k
Max	30 k	

[ k = 1000 copies ]

#### Print Mode

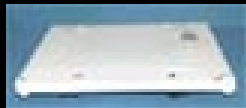
	Black and white	Color
Standard Mode	Making two prints per job (2P/J)	Making two prints per job (2P/J)
Color ratio	6%	5% for each color



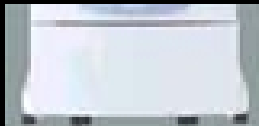
## 2) Installation/Setup



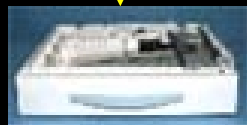
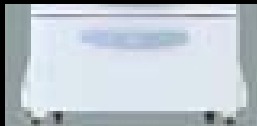
(\*1) Copy Table



Copy Desk



PF-117

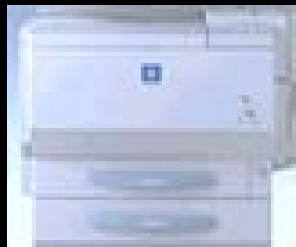


PF-118



Dehumidifying  
Heater for PF-118  
and Copy Desk

Dehumidifying  
Heater for PF-117



Printer Engine Section

AD-14



FN-107



FN-108



JS-1002



•Mechanical Counter  
•DT-105

Fiery X3e for CF2001



Interface Kit



The Service Jigs Software and adjustment service jigs are necessary when installing the CF2001P/PE, PF-117, PF-118, AD-14, and FN-107/108. (\*1)

## CF2001P Set-Up Instructions

Clicking any one of the following buttons allows you to access the PDF set-up instructions for the corresponding unit. (These documents represent the same set-up instructions as those for the options of the CF1501/2001.)

PF-117

I/F Kit I

PF-118

JS-1002

Copy Table / Copy Desk

FN-107/FN-108

AD-14

Notes on Slides





# Adjustment Service Jigs List



Parts supplied by Minolta

Service Jigs  
Software

(\*1)



Jig Harness (4004-7838-01) (\*2)

Parts arranged by subsidiary/distributor  
(commercially available)



RS232C Serial Cables



422 to RS 232C Level  
Converter (\*3)



PC (\*4)



X-Rite DTP32/41



RS 232C Selector

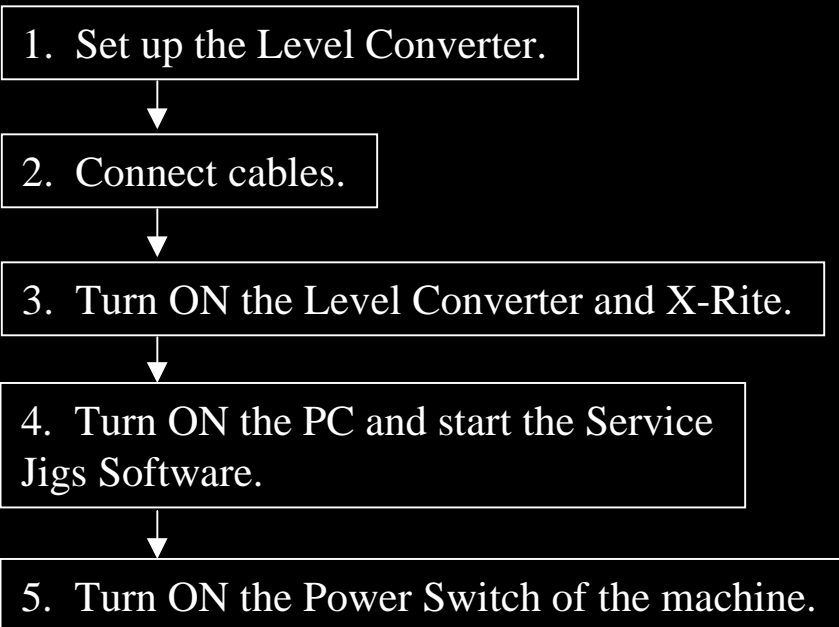


# CF2001P Set-Up

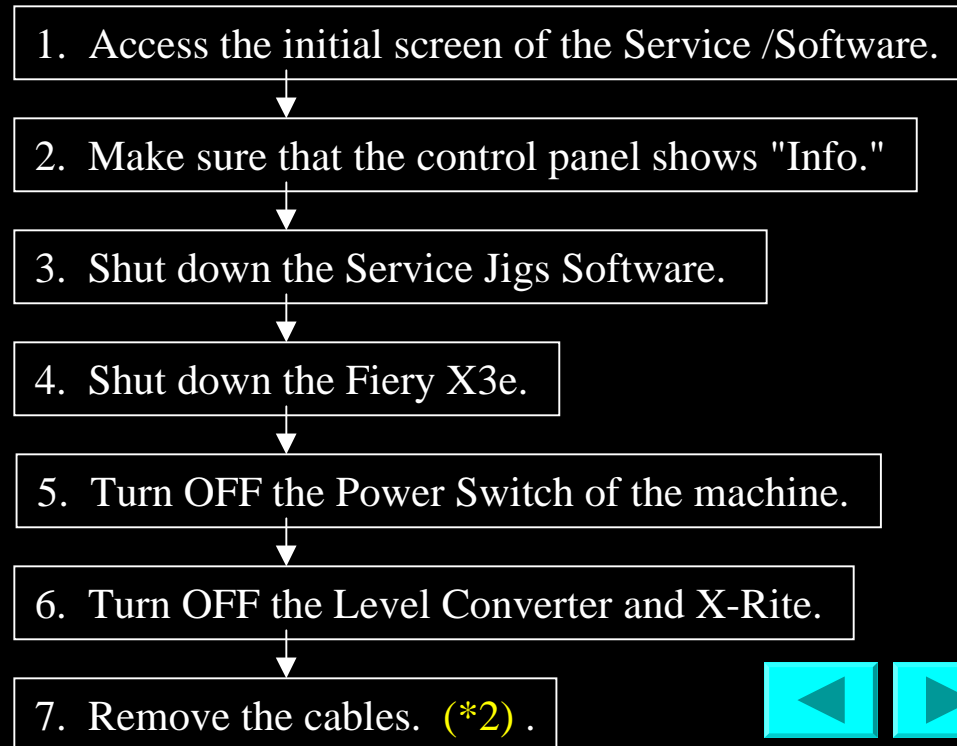


This section explains how to set up the Service Jigs Software and adjustment service jigs, and precautions for X-Rite calibration. Clicking [CF2001P Set-Up Instructions] on Slide 8 (Links to Related Materials) will allow you to access the corresponding PDF data.

- **Setting up the Service Jigs Software and adjustment service jigs (Setup Instructions P.13~)**
- **Procedure to turn ON the Power Switch of the Machine (\*1)**



- **Procedure to turn OFF the Power Switch of the Machine (\*1)**



# Level Converter and Selector



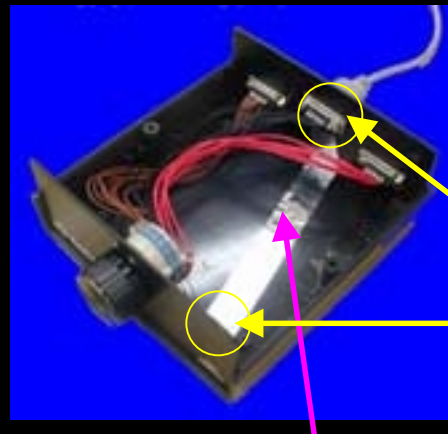
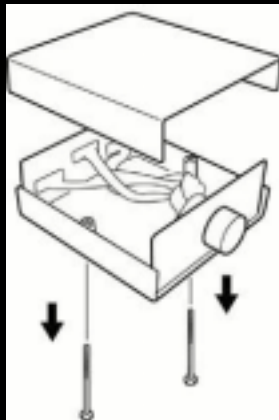
## Setting the Level Converter



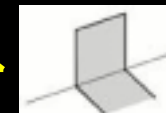
Turn ON the TERM switch (S2).  
No other switches should be changed.

Remove one screw and the cover.

## Setting the Selector



Apply the aluminum tape on  
both ends properly as  
illustrated below.



Apply the aluminum tape shipped  
with the Jig Harness. (\*1)

Remove two screws and the cover.



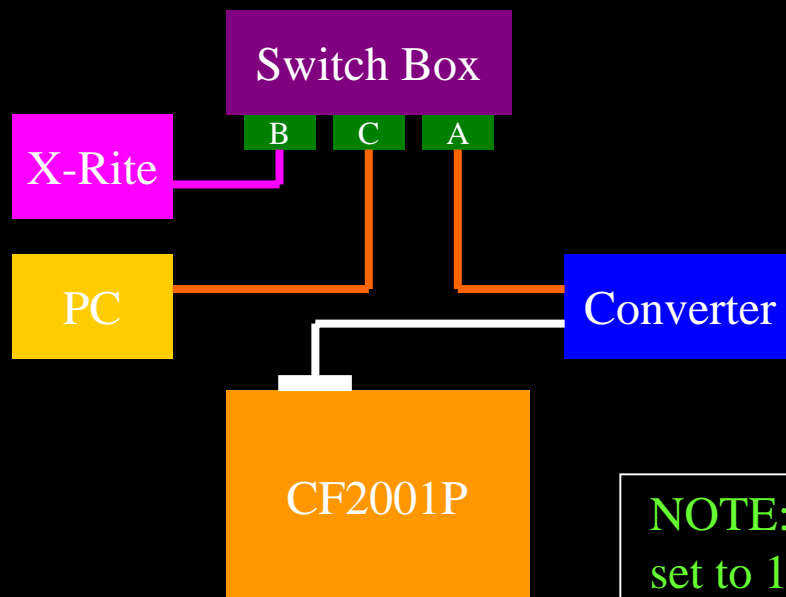
# Connecting Cables (p. 1 of 2)



## Connecting Cables

— Jig Harness  
— RS232C Serial Cables

### •Overall Setup

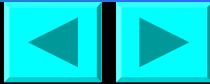


**NOTE:** The Serial Port of the X-Rite should be set to 19,200 bps.

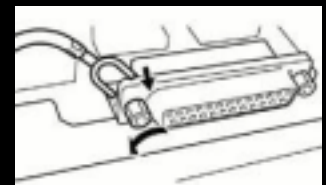
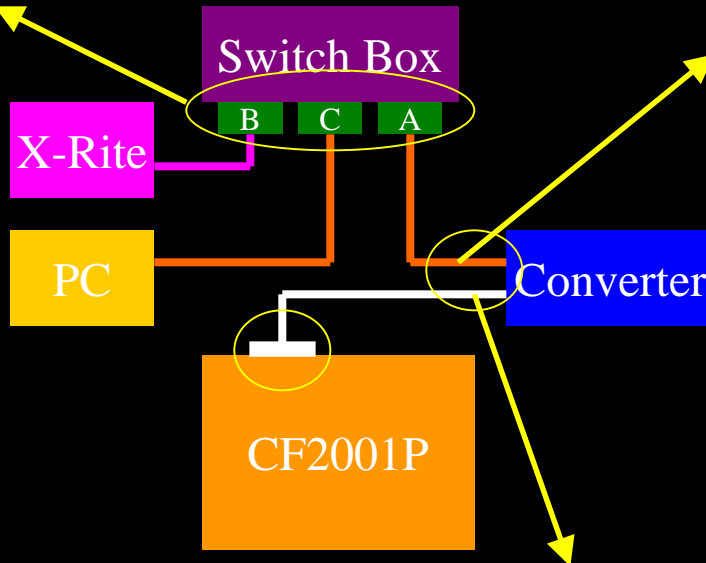
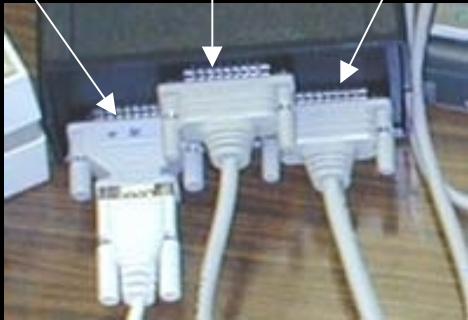


# Connecting Cables (p. 2 of 2)

## •Making Connections



B : X-Rite    C : PC    A : Converter

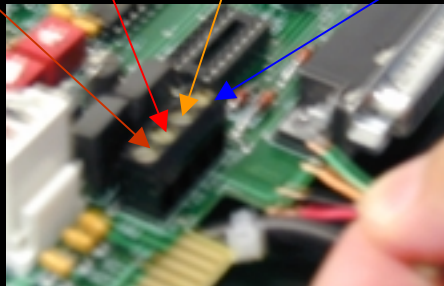


Attach the ground wire to connector.



Loosen the screws on the terminal board.

**Brown**    **Red**    **Orange**    **Blue**



Install four Jig Harnesses in the terminal board. (\*1)



Tighten the screw on the terminal board.

# X-Rite Calibration (p. 1 of 3)

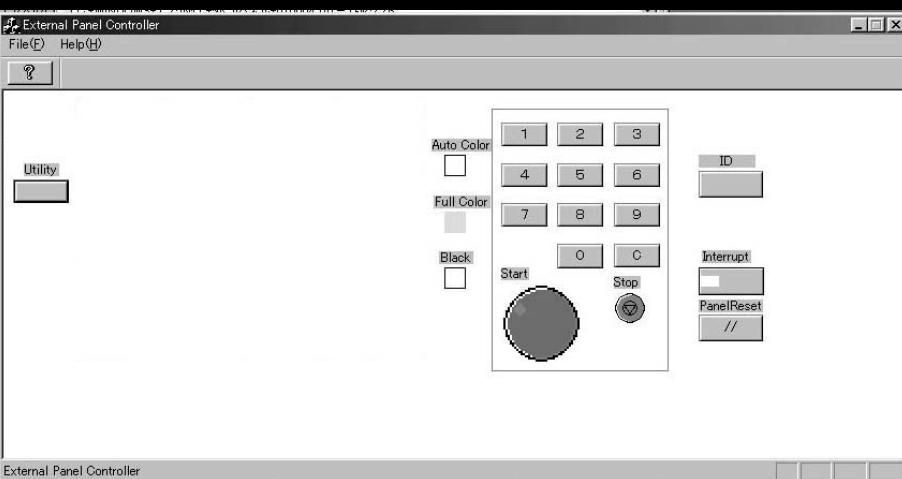


## X-Rite Calibration ( Setup Instructions P.14～)

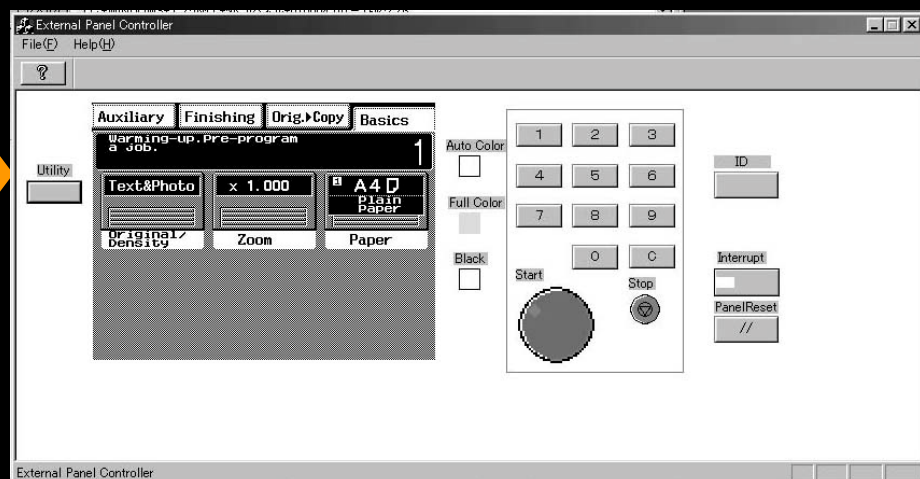
Set up the Service Jigs Software and adjustment service jigs. At this time, make sure that the selector on the Switch Box is in the A position (PC position), and that the Service Jigs Software is installed on the hard drive. DO NOT run it from the CD-ROM.



Turn ON the PC and START the Service Jigs Software.



Turn ON the Power Switch of the machine.  
(The LCD turns ON.) (\*1)

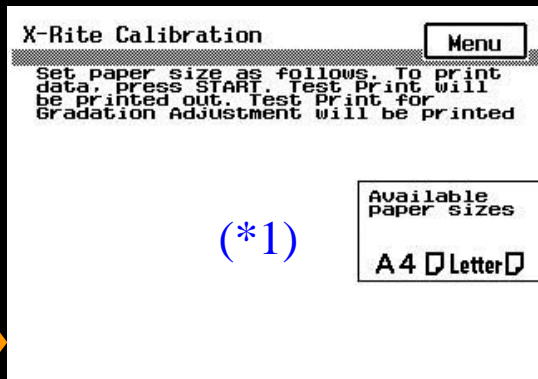
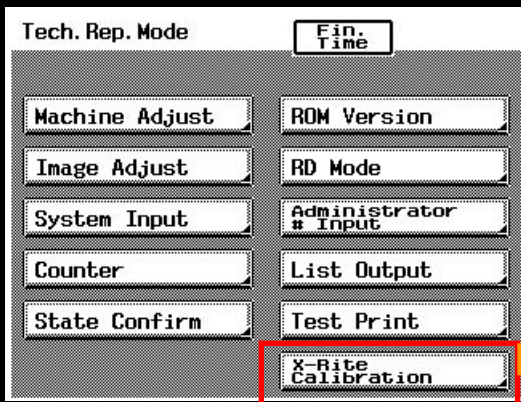


Press the Utility key, and select Meter Count. Using the numeric keys, press Stop → 0 → 0 → Stop → 0 → 1 in that sequence to enter the Tech. Rep. Mode.

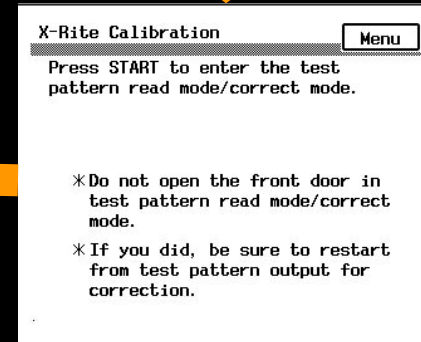
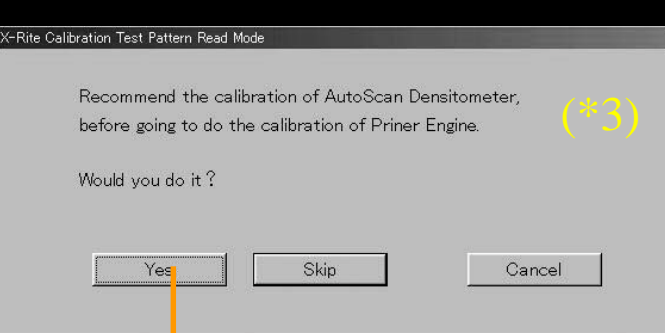




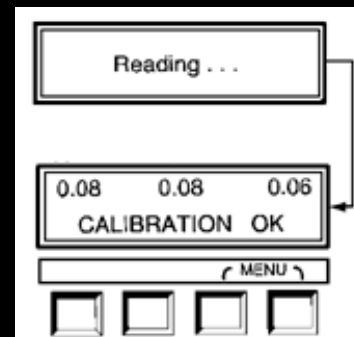
# X-Rite Calibration (p. 2 of 3)



Press the Start key to let the printer produce four test pattern prints.



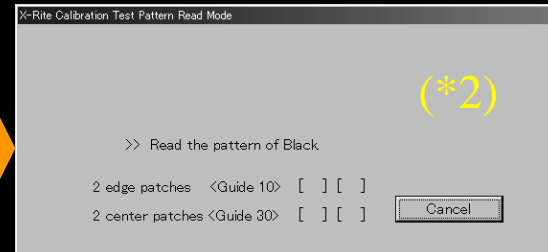
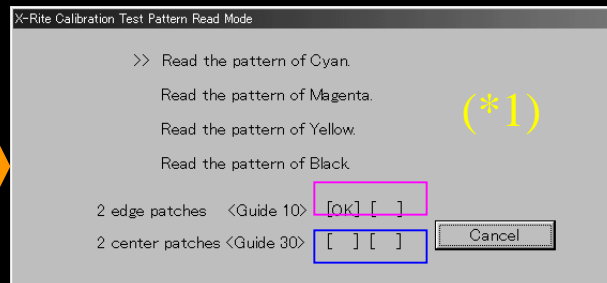
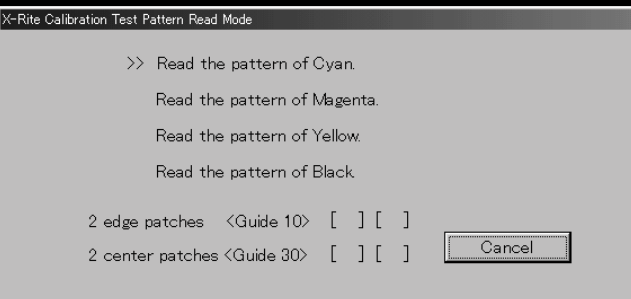
Press the Start key.



# X-Rite Calibration (p. 3 of 3)



## Test pattern scanning screen



## X-Rite guide position

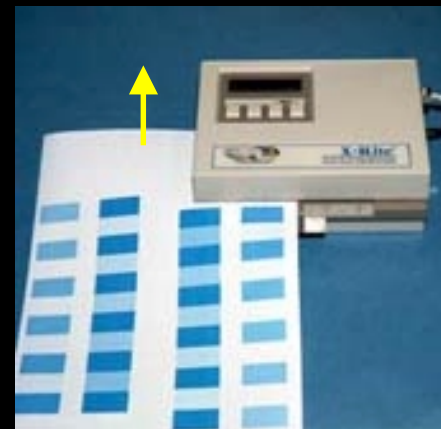
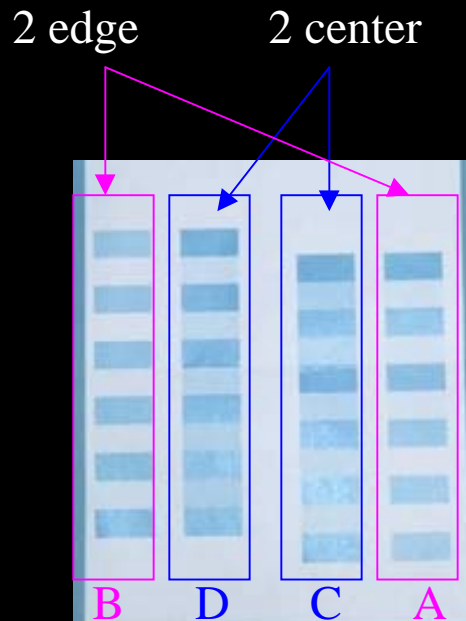


Position for two edge rows



Position for two central rows

## Test pattern scanning position





### 3) *Operation*



#### 3-1 Utility

#### 3-2 Tech. Rep. Mode

Operations are performed on the control panel for CF1501/2001. With CF2001P, the Service Jigs Software is used and operations are carried out on the PC.

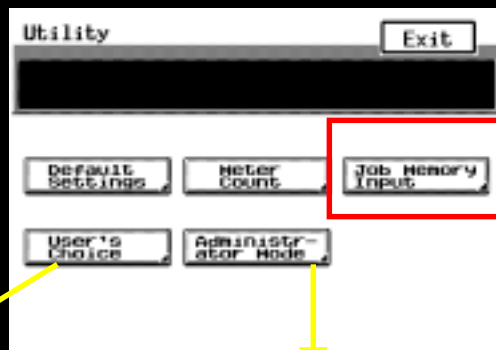
The procedure to enter each mode is the same for both cases. (\*1)



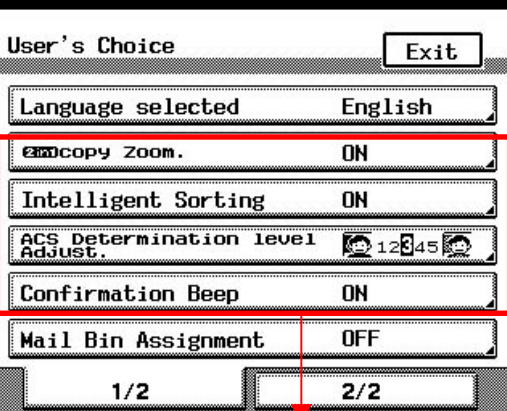
# 3-1 Utility



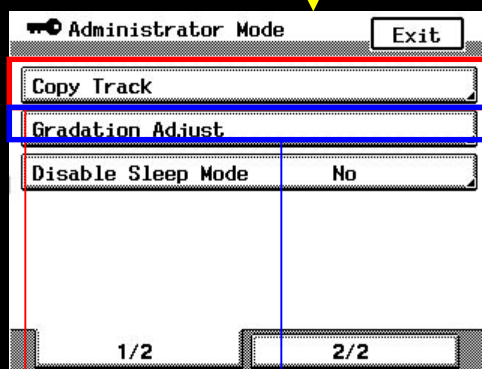
Only the screens, which have been changed from those of the CF2001, are explained. No changes have been made to the functions which are not described.



Deletion

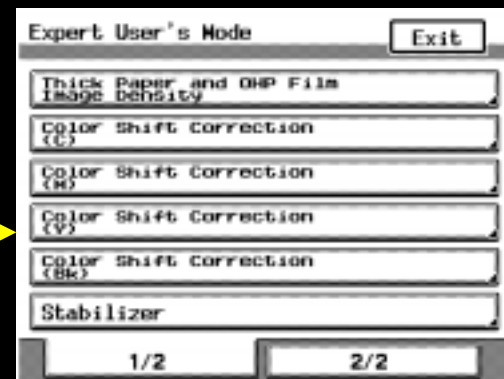


Deletion

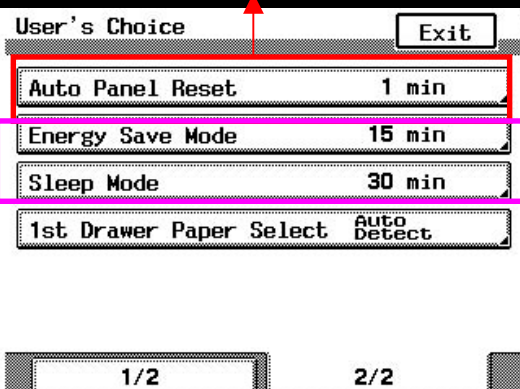


Deletion

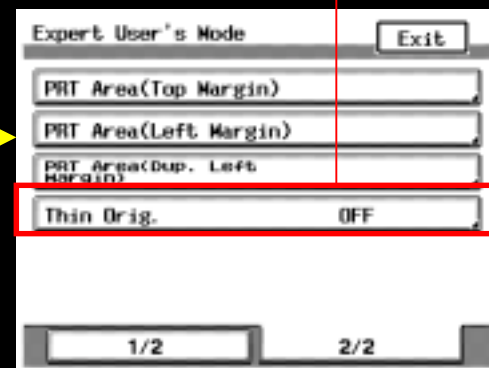
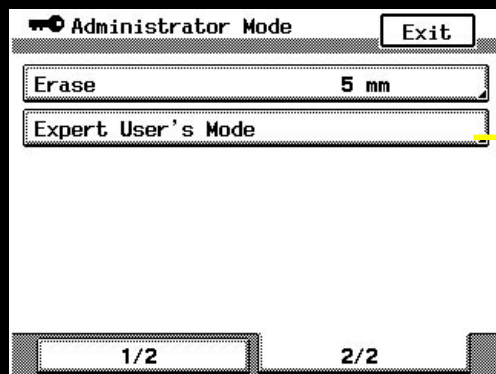
X-Rite Calibration (\*1)



Deletion



(\*2)



## 3-2 Tech. Rep. Mode



Only the screens, which have been changed from those of the CF2001, are explained below. No changes have been made to the functions which are not described. The biggest difference is that the adjustment of IR has been eliminated.

### Basic Screen

Tech. Rep. Mode Fin. Time

Machine Adjust	ROM Version
Image Adjust	SMART
System Input	Administrator # Input
Counter	List Output
State Confirm	Test Print
<b>ADF Check</b>	Gradation Adjust

Deletion



Tech. Rep. Mode Fin. Time

Machine Adjust	ROM Version
Image Adjust	SMART
System Input	Administrator # Input
Counter	List Output
State Confirm	Test Print
	X-Rite Calibration

(\*2)  
(\*1)

### Machine Adjust

Machine Adjust Menu

Fuser Nip	Fuser Temp.
Fuser Speed	<b>Org. Detect Sensor</b>
PRT Area	<b>IR Area</b>
Loop Adjust	Color Shift Correction
LPH Rank	Staple /Hole-Punch

### System Input

System Input Menu

Marketing Area	<b>Org. Detect Option Sensor</b>
Serial # Input	<b>Tel. # Input</b>
FLS Paper	<b>Book Erase (Center)</b>
Peripheral Mode	Unit Change

Deletion



## 4) *Field Service*



4-1 Adjustments

4-2 Service Jigs and Tools

4-3 F/W Updating

### NOTE:

When turning OFF the printer, be sure to shut down the controller from the control panel and then turn OFF the Power Switch of the printer.



# 4-1 Adjustments



Adjustment Item	Remark
Top Margin	All adjustments are to be made using the Service Jigs Software from the PC. Specific details of the various adjustments are the same as those of the CF2001.
Left Margin	
Dup. Left Margin	
Paper Loop	
Color Shift Correction	
Fuser Nip	
Fuser Speed	
Fuser Temp.	
PRT Max Density	
PRT Highlight	
Background Voltage Margin	
X-Rite Calibration	Refer to Gradation Adjustment of the Set-up Instructions.



## 4-2 Service Jigs and Tools



### Jigs and Tools Shipped with the Printer



IU Lower Cover



IU Handle



Cleaning Jig



Cleaning Pad

### Jigs and Tools which are exclusively replacement parts



Memory Card

### Jigs and Tools required for adjustments and setting

Refer to the Adjustment Service Jigs List.





## 4-3 F/W Updating

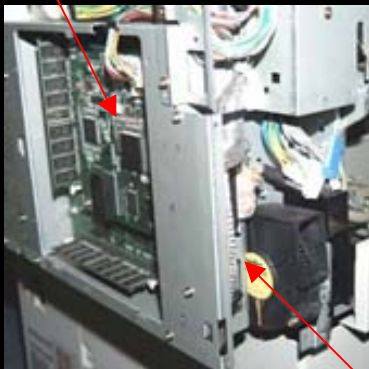
### Changes:

Due to the lack of a control panel, updating of F/W is verified using LED's 3 and 4 on PWB-H. This requires that the Rear Cover and PWB Cover be removed.

### Updating Procedure:

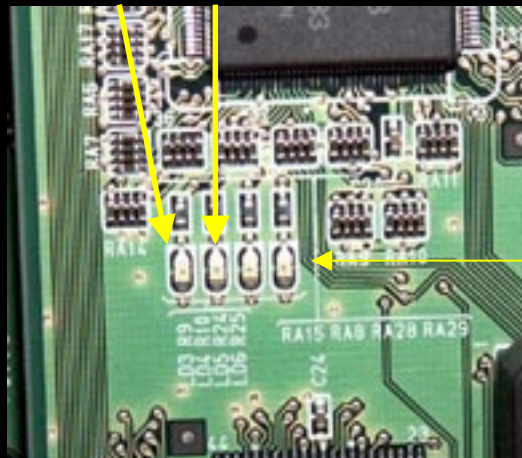
1. After the Memory Card has been inserted, plug in the power cord and turn ON the Power Switch.
2. LED's 3 and 4 on PWB-H blink alternately. (\*1)
3. In approximately 12 to 13 minutes, LED's 3 and 4 light up steadily, indicating that the updating is completed. (\*2)
4. Unplug the power cord and remove the Memory Card.

PWB-H

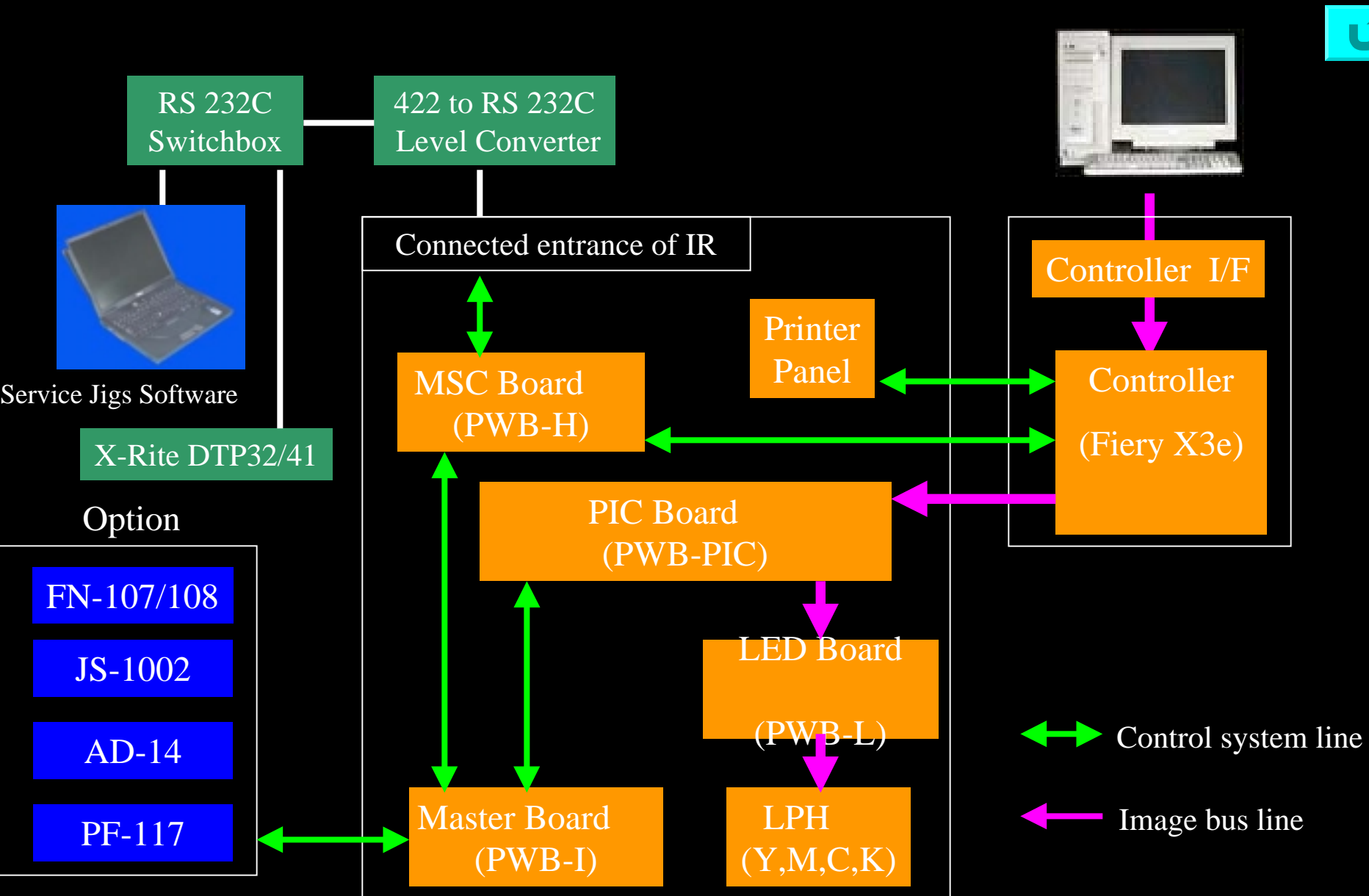


Memory Card

LED3 LED4



# 5) System Control Block Diagram





*End*



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