(CONTINUED)

TITLE **PAGE**

IOT DIAGNOSTICS

NOTE: The diagnostic operation is the same for both the C55 and NC60 printers, however the keys which are pressed to exercise the diagnostics have different names (same location). The NC60 key number will be enclosed in [ ] and will follow the C55 key names.

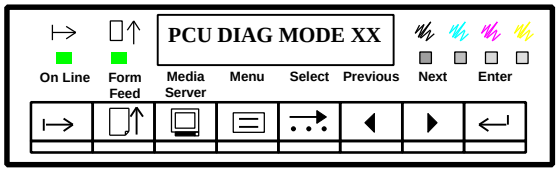
There are two diagnostic modes, the Normal mode and the Special mode.

The **Normal** mode is used to:

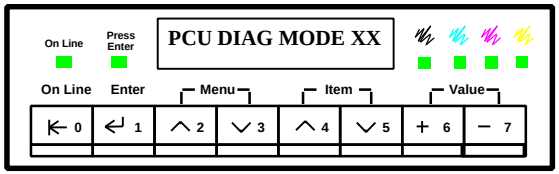
- **Test Input components**
- **Test the Laser components**
- **View the Charge, Transfer, and Bias voltage values**
- **Test the Motors**
- **Test the Clutches**
- **Run the IOT test pattern**
- **Initialize the NVM**
- **Set the consumable counter values**

ENTERING THE NORMAL DIAGNOSTIC MODE:

1. Press the **Menu [3]** and **Enter [7]** keys at the same time, then switch on the Main Power. The C55 Control Panel will indicate the following:



The NC60 Control Panel will indicate the following:



2. The Message Display indicates that you are in the PCU Diagnostic Mode and displays the ROM version number.
3. Press the **Menu [3]** key to step through the diagnostic routines.

EXITING FROM THE NORMAL DIAGNOSTIC MODE:

1. When the PCU DIAG MODE is displayed on the Message Display, press the **Form Feed [1]** key to exit from diagnostics or, switch the printer off wait 10 seconds and then switch the printer on.

SWITCH SCAN

This diagnostic routine is used to check the operation of the input sensors and switches.

1. Enter Normal diagnostics and press the **Menu [3]** key until **SWITCH SCAN 00** is displayed on the Message Display.
2. Press the **Next [6]**/**Previous [5]** keys until the Message Display steps to the SWITCH SCAN which lists the component to be tested.
3. Press the **Form Feed [1]** key to start the test. The SWITCH SCAN number will flash.
4. Operate the component (Figure 6-1). The appropriate LED (K, C, M, Y) should switch on and off.
5. Press **Media Server [2]** to stop the test. Repeat steps 2 through 4 to test additional inputs.

NOTE: When Scan row 04 is selected, the display will also indicate G=XX. This is the Gamma sensor reading and varies from 40 to 100 depending on the condition of the transfer drum. When the white patch is under the sensor, it will read in the 370 range.

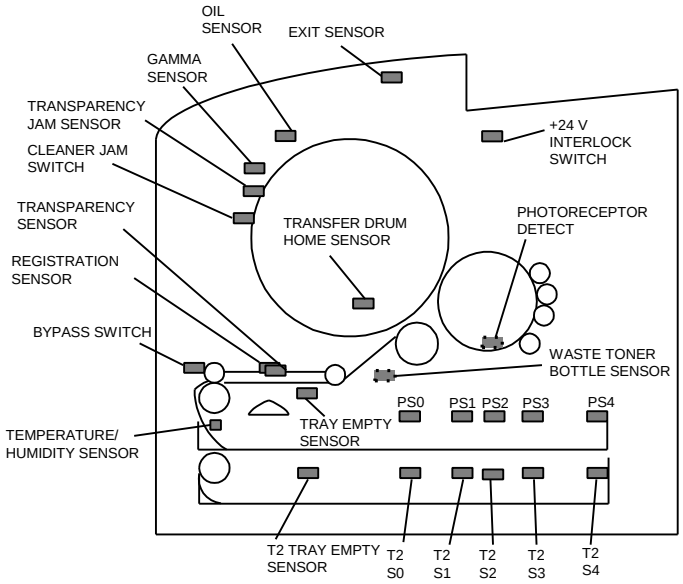


Figure 6-1. Input Component Location

SCAN ROW	LED USED			
	BLACK (K)	CYAN (C)	MAGENTA (M)	YELLOW (Y)
SWITCH SCAN 00	+24 V INTERLOCK SWITCH	BYPASS SWITCH	REGISTRATION SENSOR	EXIT SENSOR
SWITCH SCAN 01	TRAY EMPTY SENSOR	PAPER SIZE 0	PAPER SIZE 1	PAPER SIZE 2
SWITCH SCAN 02	PAPER SIZE 3	PAPER SIZE 4	PHOTORECEPTOR DETECT	WASTE TONER COLLECTOR SENSOR
SWITCH SCAN 03	T2 TRAY EMPTY SENSOR	T2 PAPER SIZE 0	T2 PAPER SIZE 1	T2 PAPER SIZE 2
SWITCH SCAN 04	T2 FEEDER DETECT	TRANSPARENCY SENSOR	TRANSFER DRUM HOME SENSOR	GAMMA SENSOR (Interlock must be closed)
SWITCH SCAN 05	TRANSPARENCY JAM SENSOR	OIL SENSOR	CLEANER JAM SENSOR	

OPTICAL SYS TEST

This Diagnostic routine is used to check the operation of the Raster Output Scanner (ROS).

1. Enter Normal diagnostics and press the **Menu [3]** key until **OPTICAL SYS TEST** is displayed on the Message Display.
2. Press the **Form Feed [1]** key to start the test.
3. The **Form Feed** lamp will flash during the test.
4. The Polygon Motor and the Laser Diode will switched on for 30 seconds. The On Line lamp will come on when the Horizontal Sync signal is generated.
5. To stop the test press the **Media Server [2]** key.

VOL TEST MAIN

This Diagnostic routine is used to check the Charge, Transfer and Developer Bias voltages.

1. Enter Normal diagnostics and press the **Menu [3]** key until **VOL TEST MC** is displayed on the Message Display.
2. Press the **Next [6]**/**Previous [5]** keys until the Message Display steps to the voltage to be tested.
3. Press the **Form Feed [1]** key to start the test. The On Line LED will flash.
4. Use the **Next [6]/Previous [5]** keys to change the voltage value.
5. To stop the test press the **Media Server [2]** key.

Voltage	Default	Range	Comments
MainMC (Charge)	NA	NA	Output fixed (No Display)
TC Bias (Transfer)	1800	1500-3000	One step change = apx. 11 volts
DV BIAS *(Max Bias)	594	298-600	One step change = apx. 20 volts
KD BIAS (Black Bias)	400	298-600	One step change = apx. 20 volts
CD BIAS (Cyan Bias)	400	298-600	One step change = apx. 20 volts
MD BIAS (Magenta Bias)	400	298-600	One step change = apx. 20 volts
YD BIAS (Yellow Bias)	400	298-600	One step change = apx. 20 volts

* This is the bias that is supplied to the roll when the color is not being developed.

MOTOR TEST

This Diagnostic routine is used to test the operation of the motors.

1. Enter Normal diagnostics and press the **Menu [3]** key until **MOTOR TEST** is displayed on the Message Display.
2. Press the **Form Feed [1]** key to start the test.
3. The following motors will operate:
   - **Main Motor**
   - **Paper Feed Motor**
   - **Fuser Motor**
   - **Developer Motor**
   - **Color Toner Motor**
   - **Black Toner Motor (Note 1)**
   - **Polygon Motor**
4. To stop the test press the **Media Server [2]** key.

*NOTE 1: Remove the Rear Cover to view the Black Toner Motor gears. Enter the MOTOR TEST program, then press the **On Line [0]** key to run the motor. Release the **On Line [0]** key to stop the motor Do not run the Black Toner motor for more than 2 seconds or overtoning will occur.*

CLUTCH TEST

This Diagnostic routine is used to test the operation of the clutches and solenoids.

1. Enter Normal diagnostics and press the **Menu [3]** key until **CLUTCH TEST** is displayed on the Message Display.
2. Press the **Form Feed [1]** key to start the test.
3. The following clutches and solenoids will operate:
   - **Transfer Drum Cleaner Solenoid**
   - **Stripper Solenoid**
   - **Developer Roll Cleaning Solenoid**
   - **Registration Clutch**
   - **Grounding Roller Solenoid**
4. Pressing the **On Line [1]** key will energize the Toner Solenoids in sequence. The first time the **On Line** key is pressed energizes the Cyan solenoid, second **On Line** the Magenta solenoid and third **On Line** the Yellow solenoid.
5. To stop the test press the **Media Server [2]** key.

TEST PRINT

This Diagnostic routine is used to print the IOT internal test pattern. Other test patterns which can be printed are stored in the ESS.

1. Enter Normal diagnostics and press the **Menu [3]** key until **TEST PRINT** is displayed on the Message Display.
2. Press the **Form Feed [1]** key to start the test using the default values.
3. During Warm-up and printing the Message Display will indicate:

   P=### **H=**### **T=**###

P, is the print coefficient normally 0 or 1.
H, is the temperature, normally 164 (170°C).
T, is the toner concentration.

The display will indicate KT, CT, MT, YT as the various toner concentrations are checked.

4. To change the default values, press the **Enter [7]** key when **TEST PRINT** is displayed
5. Use the **Menu [3]** key to select the value to be changed (Table 1). Use the **Next [6]/Previous [5]** keys to change the setting.
6. Press the **Media Server [2]** key to return to the **TEST PRINT** display. Press **Form Feed [1]** to make the test print.

Table 1

Values	Default	Settings	Comments
JAM	ON	ON/OFF	Jam detect On/Off
HEATER	ON	ON/OFF	Display heater On/Off
MULTI	OFF	ON/OFF	Multiple copies On/Off
COLOR	ON	ON/OFF	Color print On/Off
TONER	ON	ON/OFF	Display Toner On/Off
CASSETTE	STD	STD/OPT	Feed Standard/ Optional Cassette

*NOTE: When multi is selected hold **Media Server [2]** down until the printer stops.*

NV-RAM INITIAL

This Diagnostic routine is used to initialize the Non-Volatile RAM.

CAUTION

Before initializing the NVM you must obtain the toner concentration setpoints. These setpoints must be reentered after initializing the NVM. Refer to ADJ 3.3.

1. Enter Normal diagnostics and press the **Menu [3]** key until **NV-RAM INITIAL** is displayed on the Message Display.
2. Insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key. The On Line LED will switch on and then off when the change is stored.
3. The following (Tables 2 through 6) will be initialized.

Table 2

COUNTER SET (Consumable Usage Counters)	
COUNTER SET DRUM	Print Drum Images
COUNTER SET YDEV	Yellow Developer Images
COUNTER SET MDEV	Magenta Developer Images
COUNTER SET CDEV	Cyan Developer Images
COUNTER SET KDEV	Black Developer Images
COUNTER SET PRNT	Total Print Quantity
COUNTER SET FSU	Fuser Usage
COUNTER SET YTON	Yellow Toner Supply time (sec)
COUNTER SET MTON	Magenta Toner Supply time (sec)
COUNTER SET CTON	Cyan Toner On time (sec)
COUNTER SET KTON	Black Toner On time (sec)
COUNTER SET OIL	Oil Usage

(Table 3, 4, 5, and 6 are in Special Diagnostics)

Table 3

COUNTER SET2 (Print/ Error Counters)	
COUNTER SET2 TTL	Total Pages
COUNTER SET2 YPR	Yellow Print Images
COUNTER SET2 MPR	Magenta Print Images
COUNTER SET2 CPR	Cyan Print Images
COUNTER SET2 KPR	Black Print Images
COUNTER SET2 JAM	Jam Counter
COUNTER SET2 OPC	Scan Error Counter
COUNTER SET2 MAM	Main Motor Error Counter
COUNTER SET2 PLM	Polygon Motor Error Counter
COUNTER SET2 HLH	Over Temp Fusing Error Counter
COUNTER SET2 HLL	Under Temp Fusing Error Counter
COUNTER SET2 THO	Thermistor Error Counter
COUNTER SET2 DVM	Developer Motor Error Counter

Table 4

TONER LEVEL (Toner Concentration in developer assembly)	
TONER LEVEL YTON	Y Toner concentration (default 70)
TONER LEVEL MTON	M Toner concentration (default 70)
TONER LEVEL CTON	C Toner concentration (default 70)
TONER LEVEL KTON	K Toner concentration (default 70)

Table 5

ID LEVEL (Density Rate Setpoint)	
ID LEVEL YELLOW	Y Density Rate (default 90)
ID LEVEL MAGENTA	M Density Rate (default 90)
ID LEVEL CYAN	C Density Rate (default 90)
ID LEVEL BLACK	K Density Rate (default 90)

Table 6

TIMEOUT SET (Sets the Power Save and Polygon Motor time out)	
TIMEOUT SET SLP	Sleep (Power Save) (default 30 min.)
TIMEOUT SET PLM	Polygon time out (default 180 sec.)

COUNTER SET

This Diagnostic routine is used to preset the consumable counters to a desired value.

1. Enter Normal diagnostics and press the **Menu [3]** key until **COUNTER SET DRUM** is displayed on the Message Display.
2. Press the **Next [6]**/**Previous [5]** keys until the Message Display steps to the counter to be changed (Table 2).
3. Press the **Enter [7]** key the display will indicate.

   XXXX ########

   XXXX is the consumable name.
   ######## is the current counter value.
4. Press the **Menu [3]** key to select the digit to be changed.
5. Press the **Next [6]**/**Previous [5]** keys to change the counter value.
6. To store the counter change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key**.** The On Line LED will switch on and then off when the change is stored.
7. Press the **Media Server [2]** key to return the COUNTER SET list. Repeat steps 2 through 6 to change additional counters.

SPECIAL DIAGNOSTICS

The Special mode is used to:

- **Change the Counter Set2 values**
- **Change the Toner Concentration values**
- **Change the Print Density values**
- **Change the Power Saver values**
- **Test the Operation of the Control Panel keys.**

ENTERING THE SPECIAL DIAGNOSTIC MODE:

1. First, enter the **Normal** Diagnostic mode.
2. While PCU DIAG MODE XX is displayed, press **On Line [0]** then press **Enter [7]**. Release both keys at the same time.
3. The Message Display will indicate:

   PCU DIAG SPECIAL

4. Press the **Menu [3]** key to step through the diagnostic routines.

EXITING FROM THE SPECIAL DIAGNOSTIC MODE:

1. When PCU DIAG SPECIAL is displayed on the Message Display, press the **Form Feed [1]** key to exit from Special diagnostics.
2. Press **Form Feed [1]** again to exit from Normal diagnostics.
3. Or, switch the printer off wait 10 seconds and then switch the printer on.

COUNTER SET2

This Diagnostic routine is used to preset the Set2 counters to a desired value.

1. Enter Special diagnostics and press the **Menu [3]** key until **COUNTER SET2 TTL** is displayed on the Message Display.
2. Press the **Next [6]**/**Previous [5]** keys until the Message Display steps to the counter to be changed (Table 3).
3. Press the **Enter [7]** key the display will indicate:

   XXXX ########

   XXXX is the counter name.
   ######## is the current counter value.

4. Press the **Menu [3]** key to select the digit to be changed.
5. Press the **Next [6]**/**Previous [5]** keys to change the counter value.
6. To store the counter change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key**.** The On Line LED will switch on and then off when the change is stored.
7. Press the **Media Server [2]** key to return the COUNTER SET2 list. Repeat steps 2 through 6 to change additional counters.

TONER LEVEL

This Diagnostic routine is used to set the toner concentration setpoints in the developer assembly.

1. Enter Special diagnostics and press the **Menu [3]** key until TONER LEVEL YTON is displayed on the Message Display.
2. Press the **Next [6]**/**Previous [5]** keys until the Message Display steps to the color to be changed (Table 4).
3. Press the **Enter [7]** key the display will indicate:

   XXXX ###

   XXXX is the color.
   ### is the current toner concentration setpoint.

4. Press the **Next [6]**/**Previous [5]** keys to change the setpoint.
5. To store the change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key**.** The On Line LED will switch on and then off when the change is stored.
6. Press the **Media Server [2]** key to return the TONER LEVEL list. Repeat steps 2 through 5 to change other setpoints.

ID LEVEL

This Diagnostic routine is used to set the image density.

1. Enter Special diagnostics and press the **Menu [3]** key until **ID LEVEL YELLOW** is displayed on the Message Display.
2. Press the **Next [6]**/**Previous [5]** keys until the Message Display steps to the color density to be changed (Table 5).
3. Press the **Enter [7]** key the display will indicate:

   XXXX ###

   XXXX is the color name.
   ### is the current density value.
4. Press the **Next [6]**/**Previous [5]** keys to change the density value.
5. To store the density change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key**.** The On Line LED will switch on and then off when the change is stored.
6. stored.
7. Press the **Media Server [2]** key to return the ID LEVEL list. Repeat steps 2 through 5 to change additional densities.

NOTE: This value is changed when setting the color density and color balance.

TIMEOUT SET

This Diagnostic routine is used to set when the printer enters the Power Saver (Sleep) mode. It is also used to set when the Polygon motor shuts off.

1. Enter Special diagnostics and press the **Menu [3]** key until **TIMEOUT SET SLP** is displayed on the Message Display.
2. Press the **Next [6]**/**Previous [5]** keys until the Message Display steps to the timeout to be changed (Table 6).
3. Press the **Enter [7]** key the display will indicate:

   XXX ###

   XXX is the timeout feature to be changed.
   ### is the current timeout value.
4. Press the **Next [6]**/**Previous [5]** keys to change the timeout value.
5. To store the change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key**.** The On Line LED will switch on and then off when the change is stored.
6. Press the **Media Server [2]** key to return to the TIMEOUT SET list. Repeat steps 2 through 5 to change the other timeout value.

PANEL KEY TEST

This Diagnostic routine is check the operation of the switches on the control panel.

1. Enter Special diagnostics and press the **Menu [3]** key until **PANEL KEY TEST** is displayed on the Message Display.
2. Actuate the Bypass Switch, then press the **Form Feed [1]** key. The display will indicate:

   1?2?3?4?5?6?7?8?

3. Refer to Table 7 for the number assigned to the key. When the key is pressed, the ? will change to a ¬ .

Table 7

Key	Number	Key	Number
On Line [0]	1	Select [4]	5
Form Feed [1]	2	Previous [5]	6
Media Server [2]	3	Next [6]	7
Menu [3]	4	Enter [7]	8

4. If all keys check OK, the display will indicate:

   1←2←3←4←5←6←7←8←

5. Once all keys are checked the display will show the DATE and then return to PANEL KEY TEST.

COUNTER LIMIT

This Diagnostic routine is used to change the limits for the consumables.

1. Enter Special diagnostics and press the **Menu [3]** key until **COUNTER LIM DRUM** is displayed on the Message Display.
2. Press the **Next [6]/Previous [5]** keys until the Message Display steps to the consumable limit to be changed (Table 8).
3. Press the **Enter [7]** key the display will indicate.

   XXXX ########

   XXXX is the consumable name.
   ######## is the current limit.
4. Press the **Menu [3]** key to select the digit to be changed.
5. Press the **Next [6]/Previous [5]** keys to change the limit.
6. To store the counter change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key**.** The On Line LED will switch on and then off when the change is stored.
7. Press the **Media Server [2]** key to return the COUNTER LIMIT list. Repeat steps 2 through 6 to change additional counters.

Table 8 Consumable Defaults

Consumable	Default Value
(DRUM) Drum	50,000
(YDEV) Y Developer	30,000
(MDEV) M Developer	30,000
(CDEV) C Developer	30,000
KDEV) K Developer	50,000
(PRNT) Prints	300,000
(FSU) Fuser	60,000
(YTON) Yellow Toner	99999999
(MTON) Magenta Toner	99999999
(CTON) Cyan Toner	99999999
(KTON) Black Toner	99999999
(OIL) Oil	50
(DRMN) Drum Notify	45,000
(YDVN) Y Developer Notify	27,000
(MDVN) M Developer Notify	27,000
(CDVN) C Developer Notify	27,000
(KDVN) K Developer Notify	45,000

BACKGROUND DIAGNOSTICS

The Background diagnostic mode is used during manufacturing to set the basic printer parameters and should rarely require adjustment in the field.

The Background Diagnostic Mode is used to :

Initialize the following:

- Gamma Sensor A (adjust)
- Gamma Sensor I (calibration)
- Gamma Sensor C (correction)
- Black Developer (Detect K TC)
- Color Developer (Detect C,M,Y, TC)
- Both Developers (Detect K,C,M,Y, TC)
- Drum
- Fuser

Set the Control Values for the following:

- Plain Paper Transfer Current
- Transparency Transfer Current
- Gamma Transfer Current
- K Developer Bias
- C Developer Bias
- M Developer Bias
- Y Developer Bias
- Process Control (Off, On)
- Fuser Motor Speed (GP 3.4)
- Paper Feed Motor Speed

Check and set the fuser temperature.

ENTERING THE BACKGROUND DIAGNOSTIC MODE:

1. Enter Normal Diagnostics. (**Menu [3]**, **Enter [7]** + Power on).
2. Enter Special Diagnostics (while PCU DIAG MODE XX is displayed, press **On-Line [0]** then press **Enter [7]**. Release both keys at the same time).
3. Enter Background Diagnostics (while PCU DIAG MODE SPECIAL is displayed, press **Media Server [2]** then press **Previous [5]**. Release both keys at the same time).
4. The Message Display will indicate:

DIAG BACK GROUND

5. Press the **Menu [3]** key to step through the diagnostic routines.

EXITING FROM THE BACKGROUND DIAGNOSTIC MODE:

1. When DIAG BACK GROUND is displayed on the Message Display, press the **Form Feed [1]** key to exit from Background diagnostics to Normal diagnostics.
2. Press **Form Feed [1]** again to exit from Normal Diagnostics.
3. Or, switch the power off wait 10 seconds and then switch the power on.

INITIAL

This Diagnostic routine is used to initialize the following printer parameters:

- Gamma Sensor A (adjust density)
- Gamma Sensor I (calibrate sensor)
- Gamma Sensor C (calculate sensor correction)
- Black Developer (set current black TC as Black toner setpoint)
- Color Developer (set current color TC as Color toner setpoint)
- Both Developers (set current TC as toner setpoint for all four colors)
- Drum (reset drum counter)
- Fuser (reset fuser counter)

1. Enter Background diagnostics and press the **Menu [3]** key until **INITIAL GAMMA_A** is displayed on the Message Display.
2. Use the **Previous [5]**/**Next [6]** keys to select the parameter to be initialized.
3. To initialize the item Insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key. The On Line LED will switch on and then off when the change is stored.
4. When the initialization routine is compete press **Previous [5]**/**Next [6]** key to select the next parameter to be initialized.

CONTROL

This Diagnostic routine is used to set the control points for the following printer parameters:

- K Developer Bias
- C Developer Bias
- M Developer Bias
- Y Developer Bias
- GAMMA MD (Process Control, Off, On).
- CONTROL PATCH MD (C55/C55mp IOT Software Version 75 and up). Refer to GP 3.2.
- TONER MD (IOT Software Version 94 and up). Switches new Toner Control program off and on. Should be left on.
- SLPGM MD (IOT Software Version 94 and up). (Perform copy quality setup when waking up from power save, Off, On).
- BLKHI MD (IOT Software Version 94 and up). (Fast Black Off and On)
- CL COUNT MD (stores cleaning cycle count).
- Fuser Motor Speed (↑ value to ↓ speed)
- Paper Feed Motor Speed (↑ value to ↓ speed)

1. Enter Background diagnostics and press the **Menu [3]** key until **CONTROL KDVBIAS** is displayed on the Message Display.
2. Use the **Previous [5]**/**Next [6]** keys to select the parameter to be changed).
3. Press the **Enter [7]** key the display will indicate the present value.
4. Press **Previous [5]**/**Next [6]** to change the value.
5. To store the change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key. The On Line LED will switch on and then off when the change is stored.

Table 9 Control Defaults

Item	Default	Description
C55/C55mp/[NC60]		
Control K DVBias	400	K Dev Bias
Control CL Count	20	Cleaning Cycle Count
Control Gamma MD	On	Process Control, On/Off
Control Y DVBias	400	Y Dev Bias
Control M DVBias	400	M Dev Bias
Control C DVBias	400	C Dev Bias
(C55/C55mp)		
Control Patch MD	On	Patch Control, On/Off
Control PF Motor	3409	Paper Feed Mot. Speed
Control FS Motor	3729	Fuser Motor Speed
[NC60]		
Control PF Motor	3221	Paper Feed Mot. Speed
Control FS Motor	3527	Fuser Motor Speed
Control Patch MD	Off	Patch Control, On/Off
Control BLKHI MD	On	Fast Black, On/Off
Control SLPGM MD	Off	Process Control after Power Save On/Off
Control Toner MD	On	ContinousToner, On/Off

HEATER TEST

This Diagnostic routine is used to check and change the fuser temperature control points

During the heater test the following data is displayed.

***** Fuser On

H Thermistor Output

C Temperature level being monitored.

The fuser has five different paper setpoints, (Plain C0 through Plain C4) and five different transparency setpoints, (OHP C0 through OHP C4). The setpoint selected depends on the mode of operation.

1. Enter Background diagnostics and press the **Menu [3]** key until **HEATER TEST** is displayed on the Message Display.
2. Testing the heater.
3. With **HEATER TEST** displayed press the **Form Feed [1]** Key.
   a. The printer will begin to warm up and display the fuser values.
   b. Use the **Next [6]**/**Previous [5]** keys to toggle between the paper and transparency values.
   c. Press **Media Server [2]** to exit from the Heater test.
4. Changing the temperature values.
   a. With **HEATER TEST** displayed press the **Enter [7]** Key
   b. Use the **Menu [3]** key to select the value to be changed.
   c. Use the **Next [6]**/**Previous [5]** keys to change the value.
   d. To store the change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key. The On Line LED will switch on and then off when the change is stored.
   e. Press **Media Server [2]** to exit from the Temperature Change.

Table 10 Fuser Defaults

Item	Default	Description
(C55/C55mp)		
Plain C0:	102	Paper intermediate setpoint
Plain C1:	102	Paper intermediate setpoint
Plain C2:	119	Paper intermediate setpoint
Plain C3:	129	Paper intermediate setpoint
Plain C4:	140	Paper control setpoint
[NC60]		
Plain C0:	107	Paper intermediate setpoint
Plain C1:	107	Paper intermediate setpoint
Plain C2:	124	Paper intermediate setpoint
Plain C3:	134	Paper intermediate setpoint
Plain C4:	145	Paper control setpoint
C55/C55mp/[NC60]		
OHP C0:	20	Transparency intermediate setpoint
OHP C1:	20	Transparency intermediate setpoint
OHP C2:	20	Transparency intermediate setpoint
OHP C3:	146	Transparency intermediate setpoint
OHP C4:	160	Transparency control setpoint
W/U C0:	112	Warmup intermediate setpoint
W/U C1:	112	Warmup intermediate setpoint
W/U C2:	129	Warmup intermediate setpoint
W/U C3:	139	Warmup intermediate setpoint
W/U C4:	150	Warmup control setpoint

TC BIAS

This Diagnostic routine is used to set the low normal and high Transfer Bias for the following:

- Plain (ordinary paper)
- OHP (transparencies)
- Gamma (patch bias)

1. Enter Background diagnostics and press the **Menu [3]** key until **TC BIAS PLAIN CL** is displayed on the Message Display.
2. Use the **Previous [5]/Next [6]** keys to select the bias and range to be changed).
3. Press the **Enter [7]** key the display will indicate the present value.
4. Press **Previous [5]/Next [6]** to change the value.
5. To store the change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key. The On Line LED will switch on and then off when the change is stored.

Table 11 Transfer Defaults

Item	Default	Description
C55/C55mp/[NC60]		
TC Bias Gamma KH	505	K high humidity patch bias
TC Bias Gamma KN	800	K norm humidity patch bias
TC Bias Gamma KL	800	K low humidity patch bias
TC Bias Gamma CH	505	C high humidity patch bias
TC Bias Gamma CN	800	C norm humidity patch bias
TC Bias Gamma CL	800	C low humidity patch bias
TC Bias OHP.BS/H	2200	TX high humidity bias
TC Bias OHP.BS/N	2200	TX norm. humidity bias
TC Bias OHP.BS/L	2200	TX low humidity bias
TC Bias OHP.DT/H	200	TX high humidity bias offset
TC Bias OHP.DT/N	200	TX norm. humidity bias offset
TC Bias OHP.DT/L	105	TX low humidity bias offset
(C55/C55mp)		
TC Bias P.P.BS/H	1200	Paper high humidity bias
TC Bias P.P.BS/N	1305	Paper norm. humidity bias
TC Bias P.P.BS/L	1400	Paper low humidity bias
TC Bias P.P.DT/H	0	Paper high humidity bias offset
TC Bias P.P.DT/N	0	Paper norm. humidity bias offset
TC Bias P.P.DT/L	0	Paper low humidity bias offset
[NC60]		
TC Bias P.P.BS/H	1000	Paper high humidity bias
TC Bias P.P.BS/N	1000	Paper norm. humidity bias
TC Bias P.P.BS/L	1200	Paper low humidity bias
TC Bias P.P.DT/H	105	Paper high humidity bias offset
TC Bias P.P.DT/N	105	Paper norm. humidity bias offset
TC Bias P.P.DT/L	105	Paper low humidity bias offset

The NC60 default values listed above will be the IOT version 94 defaults. Earlier NC60 IOT versions should be set to the above values.

TS LIFE

This Diagnostic routine is used to set the toner concentration offset. This offset is used to compensate for developer aging.

1. Enter Background diagnostics and press the **Menu [3]** key until **TS LIFE C** is displayed on the Message Display.
2. Use the **Previous [5]/Next [6]** keys to select the color and range to be changed).
3. Press the **Enter [7]** key the display will indicate the present value.
4. Press **Previous [5]/Next [6]** to change the value.
5. To store the change insert a sheet of paper into the bypass slot to actuate the Bypass Switch, then press the **Form Feed [1]** key. The On Line LED will switch on and then off when the change is stored.

Table 12 Toner Supply Defaults

Item	Default	Description
C55/C55mp/[NC60]		
TS Life K35k→	0	TC offset black.>35k
TS Life K10k→35k	0	TC offset black 10→35k
TS Life K.2k→10k	0	TC offset black .2→10k
TS Life K. 0k→.2k	4	TC offset black . 0→.2k
TS Life C35k→	0	TC offset color.>35k
TS Life C10k→35k	0	TC offset color 10→35k
TS Life C.2k→10k	0	TC offset color .2→10k
TS Life C 0k→.2k	0	TC offset color. 0→2k
[NC60]		
TS Life TS Delta	3	Delta for toner override

OFF LINE MENUS (C55/C55MP ONLY)

PROCEDURE

NOTE: Before entering the Off Line Menus, ensure that the printer has completed the initialization cycle and the On Line LED is on.

Press the **On Line** key. The green On Line LED will go out indicating that you are in the Off Line mode. Press the **Menu** key. You are now in the Off Line menus

Navigating through the Menus.

Enter ---------- selects an item or enters a sub-menu.

Next ---------- moves forward in the sub-menus.

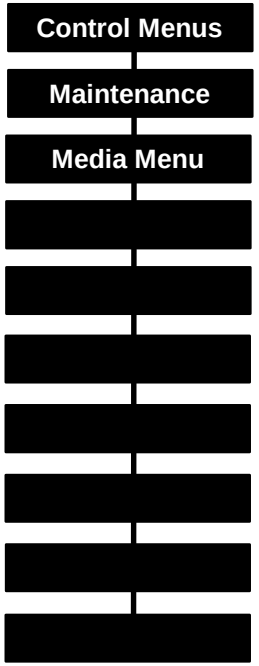
Previous --------- moves back in the sub-menus.

Media Server --- moves to the Media server menu.

Menu ---------- moves to the top of the menu list.

The Media Server can be selected from the On Line mode by pressing **Media Server**.

The printer menus are in layers. The TOP MENU is Layer 0 and consists of the following:



The only menu which will described in detail here is the C55/C55mp Service Menu. To see how the rest of the Menus are layered refer to the C55/C55mp Menu page.
To run the MENU page:

Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< PRINT >
Enter	< STARTUP >
Next - until	< MENU >
Enter	< YES >
Enter	< PROCESSING >

(C55/C55mp Only)

TOP MENU
<SERVICE>

Layer 1	Layer 2	Layer 3	Layer 4
SERVICE <TEST PATTERNS>	TEST PATTERNS <PRINT PQ SET>	PRINT PQ SET <**YES**> <NO> <EXIT THIS MENU>	
	TEST PATTERNS <PATTERN TYPE	PATTERN TYPE <PCL>	PCL <**TEST PATTERN A**> <100% STRIPE> <COLOR BALANCE> <YELLOW STEP> <MAGENTA STEP> <CYAN STEP> <BLACK STEP> <BLANK> <GRAY HALFTONE> <EXIT THIS MENU>
		PATTERN TYPE <POSTSCRIPT>	POSTSCRIPT <**TEST PATTERN A**> <COLOR BALANCE> <EXIT THIS MENU>
		PATTERN TYPE <IOT STRIPE>	PATTERN TYPE < QUANTITY > NUMBER OF COPIES <**1**~99>
			PATTERN TYPE <TRAY> (Must have Tray 2 Installed) TRAY <**TRAY 1**> <TRAY 2> <EXIT THIS MENU>
			PATTERN TYPE <RUN TEST JOB> <**YES**> <NO>

(C55/C55mp Only)

TOP MENU
<SERVICE>

(Continued)

Layer 1	Layer 2	Layer 3	Layer 4
		PATTERN TYPE <EXIT THIS MENU>	
SERVICE <TEST PATTERNS> (continued)	TEST PATTERNS <DIAGNOSTICS>	DIAGNOSTICS <**YES**> <NO> <EXIT THIS MENU>	
	TEST PATTERNS <EXIT THIS MENU>		
SERVICE <LOSSY COUNTER>	LOSSY COUNTER <BINARY>	BINARY #	
	LOSSY COUNTER <CONTONE>	CONT. TONE #	
	LOSSY COUNTER <EXIT THIS MENU>		
SERVICE <SHOW SW LEVEL>	<SOFTWARE DATA>		
SERVICE <SHOW MEMORY>	SHOW MEMORY ## MB		
SERVICE <ERROR LOGS>	ERROR LOGS <ACTIVE FAULTS>	ACTIVE FAULTS < XXX XXX>	
	ERROR LOGS <FAULT HISTORY>	##FAULTS IN LOG PRESS ENTER	LIST OF LAST 50 FAULTS
	ERROR LOGS <EXIT THIS MENU>		
SERVICE <ADJUSTMENTS>	ADJUSTMENTS <LEFT MARGIN>	LEFT MARGIN <# mm>	
	ADJUSTMENTS <TOP MARGIN>	TOP MARGIN <# mm>	

(C55/C55mp Only)

TOP MENU <SERVICE>

(Continued)

Layer 1	Layer 2	Layer 3	LAYER 4
SERVICE <ADJUSTMENTS	ADJUSTMENTS <CLEANING CYCLE>	CLEANING CYCLE <NEVER> <10 IMAGES> <20 IMAGES> <30 IMAGES> <40 IMAGES> <50 IMAGES> <60 IMAGES> <70 IMAGES> <80 IMAGES> <90 IMAGES> <100 IMAGES>	
	ADJUSTMENTS <PATCH CONTROL>	PATCH CONTROL <ON> <OFF>	
	ADJUSTMENTS <EXIT THIS MENU>		
SERVICE <RESET CRU>	RESET CRU <RESET K DEV>	RESET K DEV <YES> <**NO**>	
	RESET CRU <RESET CMY DEV>	RESET CMY DEV <YES> <**NO**>	
	RESET CRU <RESET PRINTDRU>	RESET PRINTDRU <YES> <**NO**>	
	RESET CRU <RESET FUSER>	RESET FUSER <YES> <**NO**>	
	RESET CRU <EXIT THIS MENU>		

(C55/C55mp Only)

TOP MENU <SERVICE>

(Continued)

Layer 1	Layer 2	Layer 3	LAYER 4
SERVICE <SHOW SETPOINTS>	SHOW SETPOINTS <BLACK TC>	BLACK TC KKK	
	SHOW SETPOINTS <CYAN TC>	CYAN TC CCC	
	SHOW SETPOINTS <MAGENTA TC>	MAGENTA TC MMM	
	SHOW SETPOINTS <YELLOW TC>	YELLOW TC YYY	
	SHOW SETPOINTS <EXIT THIS MENU>		
SERVICE < DISK SERVICES >	DISK SERVICES <FORMAT DISK>	FORMAT DISK <ARE YOU SURE> YES **NO**	
	DISK SERVICES <EXIT THIS MENU>		
SERVICE <EXIT THIS MENU>			

Notes:

MENUS [NC60 ONLY]

PROCEDURE

NOTE: Before entering the NC60 Menus, ensure that the printer has completed the initialization cycle and the On Line LED is on.

Press the **MENU UP or MENU DOWN** key. You are now in the menus

Navigating through the Menus.

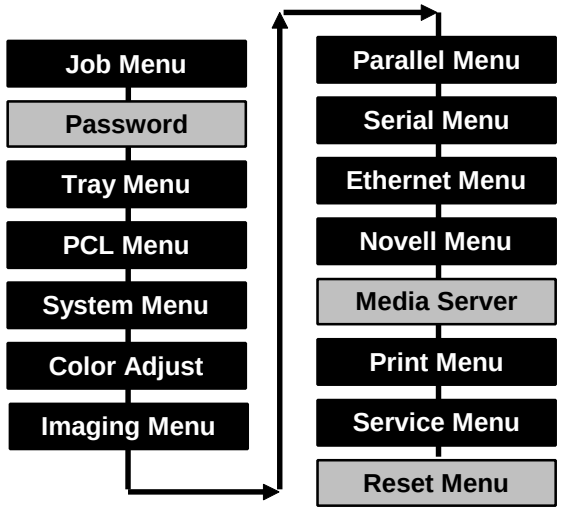
Menu up or Menu Down
Scrolls through the Menus.

Item Up or Item Down
Enters the Menu display and scrolls through the sub menus.

Value Up or Value Down
Selects values within the submenu.

Enter
Stores selected values or performs the selected function.

The printer menus are in layers. The TOP MENU layer consists of the following:



NOTE: The Password option is used to send a print and hold it until you are at the printer to receive it. This option is only available if the printer has a hard drive.

NOTE: The Media Server option is only available if the printer has the Media Server Option and a floppy disk is inserted.

*NOTE: The Reset Menu is only visible if the **On Line** and **Enter** keys are pressed and held at power on. The keys must be held until the display indicates Power On Version X.XX, then release the keys.*

To see how the Menus are layered refer to the NC60 Menu page.
To run the NC60 MENU page:

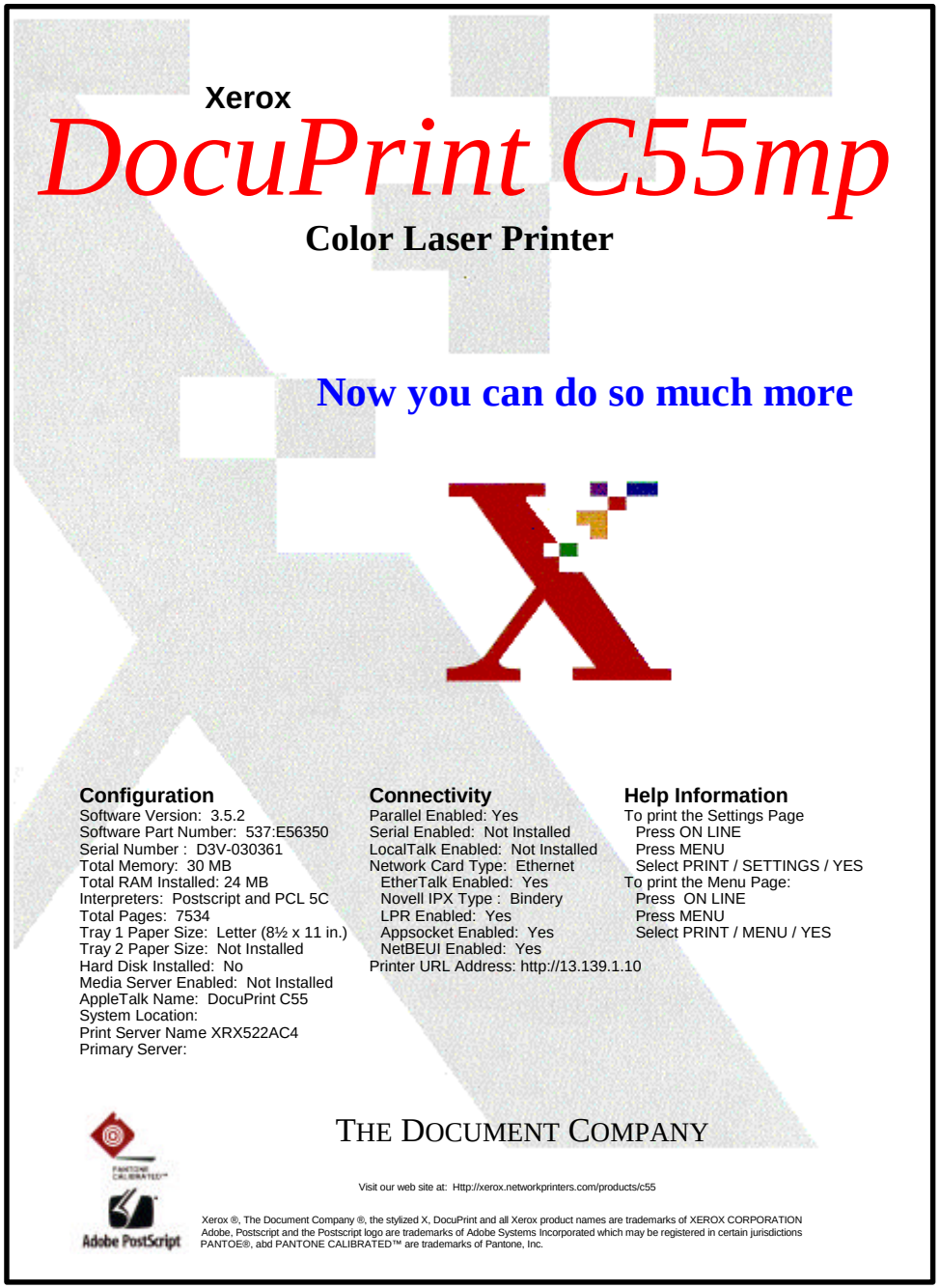
Press	Display Reads
Menu Up - until	Menus Print
Item Down - until	Print Menu Map
Enter	Processing . . . Menu Map

ESS TEST PATTERNS AND INFORMATION PAGES

STARTUP (C55/C55mp)

Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< PRINT >
Enter	< STARTUP >
Enter	< YES >
Enter	< PROCESSING >

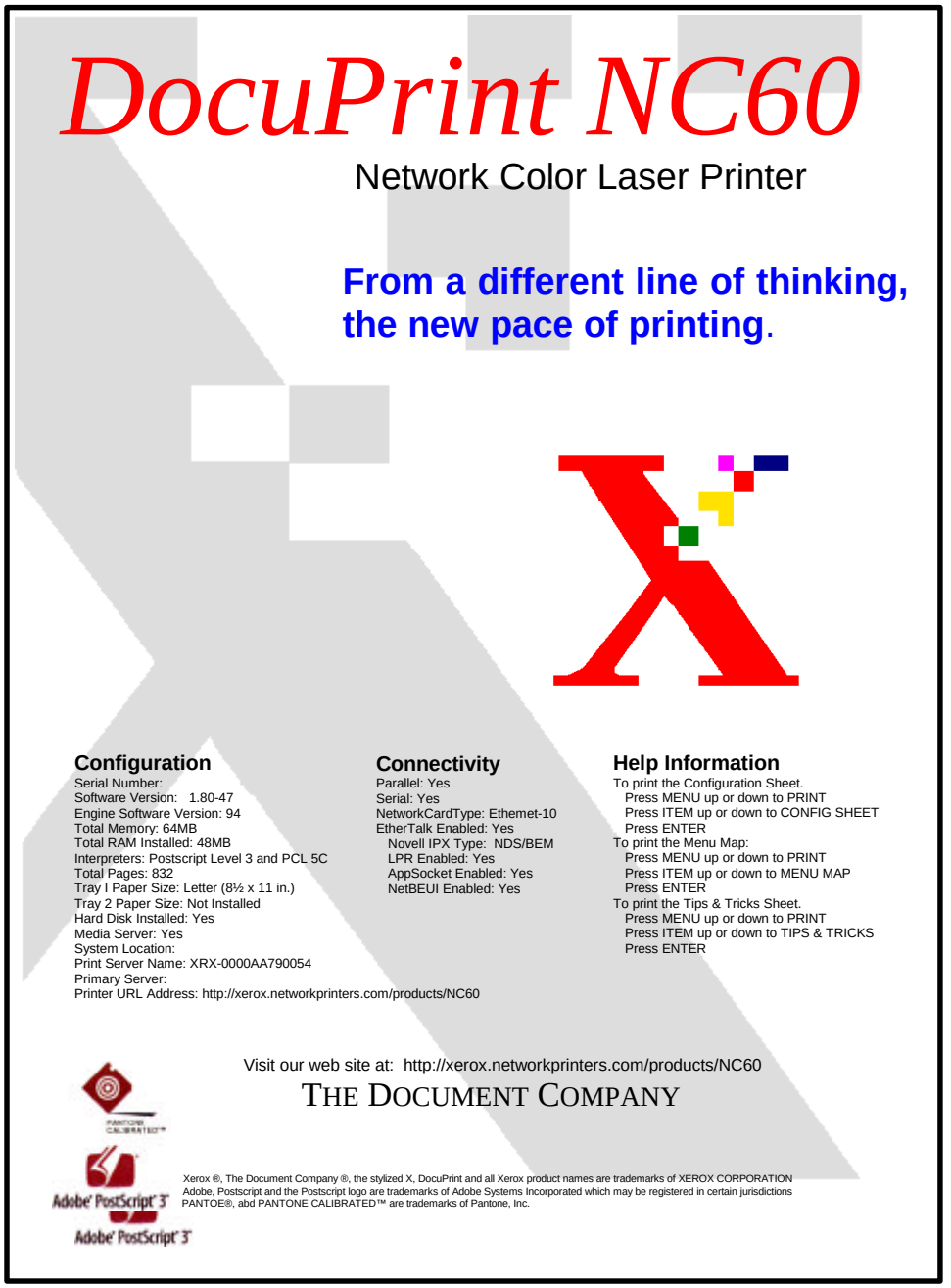
This is the startup page. It can be set to print automatically once the printer has finished the warm-up cycle. This page displays Configuration data, Connective data, and a brief Help.



STARTUP [NC60]

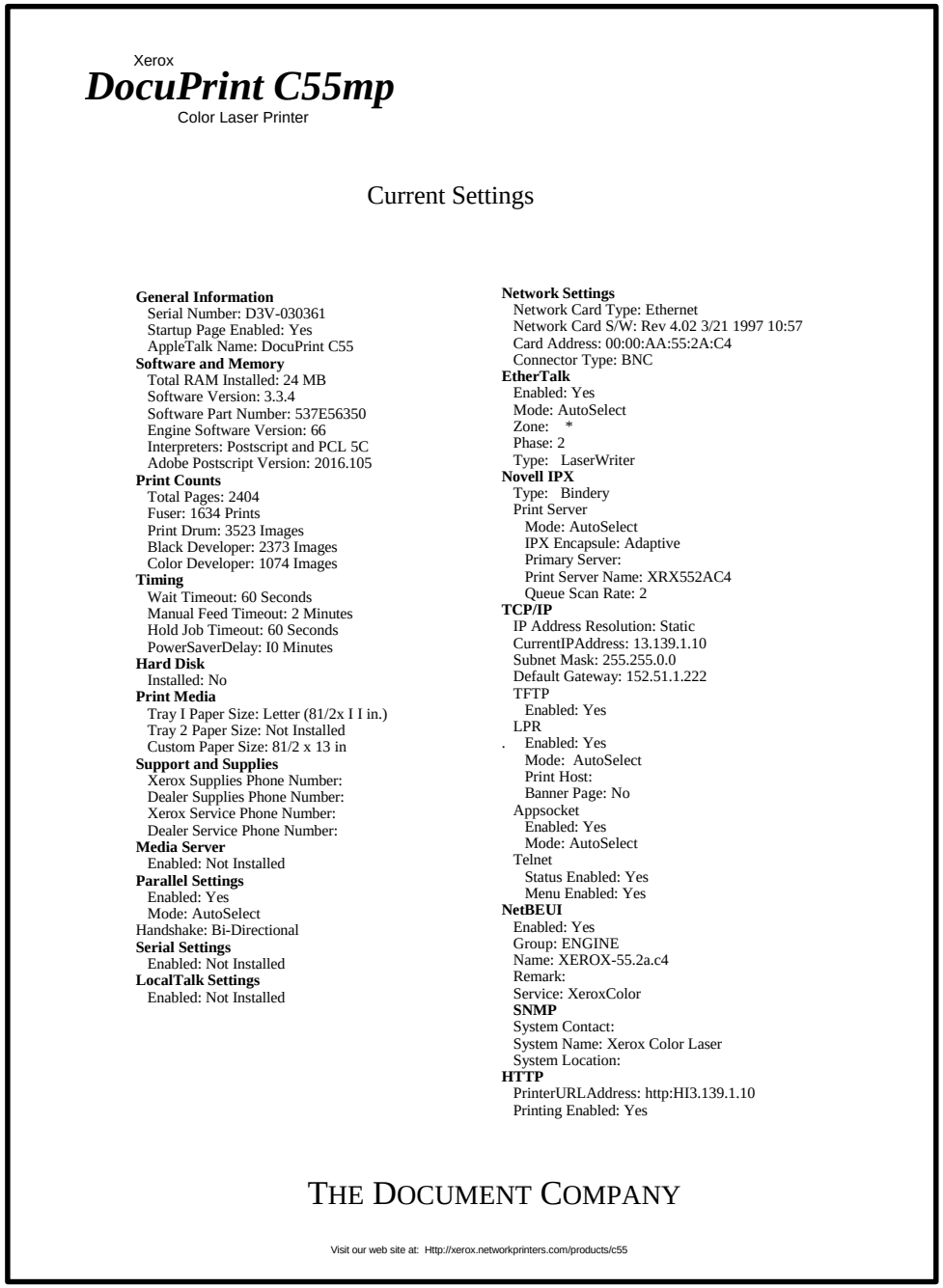
Press	Display Reads
Menu Up - until	Menus Print Menu
Item Up - until	Print Startup Page
Enter	Processing . . .

This is the startup page. It can be set to print automatically once the printer has finished the warm-up cycle. This page displays Configuration data, Connective data, and a brief Help.



Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< PRINT >
Enter	< STARTUP >
Next - until	< SETTINGS >
Enter	< YES >
Enter	< PROCESSING >

This page lists the printer configuration and network settings. The customer should retain a copy of this page. If you replace the ESS, PWB all of these setting will be lost.



Xerox

DocuPrint C55mp

Color Laser Printer

Current Settings

General Information
Serial Number: D3V-030361
Startup Page Enabled: Yes
AppleTalk Name: DocuPrint C55
Software and Memory
Total RAM Installed: 24 MB
Software Version: 3.3.4
Software Part Number: 537E56350
Engine Software Version: 66
Interpreters: Postscript and PCL 5C
Adobe Postscript Version: 2016.105
Print Counts
Total Pages: 2404
Fuser: 1634 Prints
Print Drum: 3523 Images
Black Developer: 2373 Images
Color Developer: 1074 Images
Timing
Wait Timeout: 60 Seconds
Manual Feed Timeout: 2 Minutes
Hold Job Timeout: 60 Seconds
PowerSaverDelay: I0 Minutes
Hard Disk
Installed: No
Print Media
Tray I Paper Size: Letter (81/2x I I in.)
Tray 2 Paper Size: Not Installed
Custom Paper Size: 81/2 x 13 in
Support and Supplies
Xerox Supplies Phone Number:
Dealer Supplies Phone Number:
Xerox Service Phone Number:
Dealer Service Phone Number:
Media Server
Enabled: Not Installed
Parallel Settings
Enabled: Yes
Mode: AutoSelect
Handshake: Bi-Directional
Serial Settings
Enabled: Not Installed
LocalTalk Settings
Enabled: Not Installed

Network Settings
Network Card Type: Ethernet
Network Card S/W: Rev 4.02 3/21 1997 10:57
Card Address: 00:00:AA:55:2A:C4
Connector Type: BNC
EtherTalk
Enabled: Yes
Mode: AutoSelect
Zone: *
Phase: 2
Type: LaserWriter
Novell IPX
Type: Bindery
Print Server
Mode: AutoSelect
IPX Encapsule: Adaptive
Primary Server:
Print Server Name: XRX552AC4
Queue Scan Rate: 2
TCP/IP
IP Address Resolution: Static
CurrentIPAddress: 13.139.1.10
Subnet Mask: 255.255.0.0
Default Gateway: 152.51.1.222
TFTP
Enabled: Yes
LPR
. Enabled: Yes
Mode: AutoSelect
Print Host:
Banner Page: No
Appsocket
Enabled: Yes
Mode: AutoSelect
Telnet
Status Enabled: Yes
Menu Enabled: Yes
NetBEUI
Enabled: Yes
Group: ENGINE
Name: XEROX-55.2a.c4
Remark:
Service: XeroxColor
SNMP
System Contact:
System Name: Xerox Color Laser
System Location:
HTTP
PrinterURLAddress: http:HI3.139.1.10
Printing Enabled: Yes

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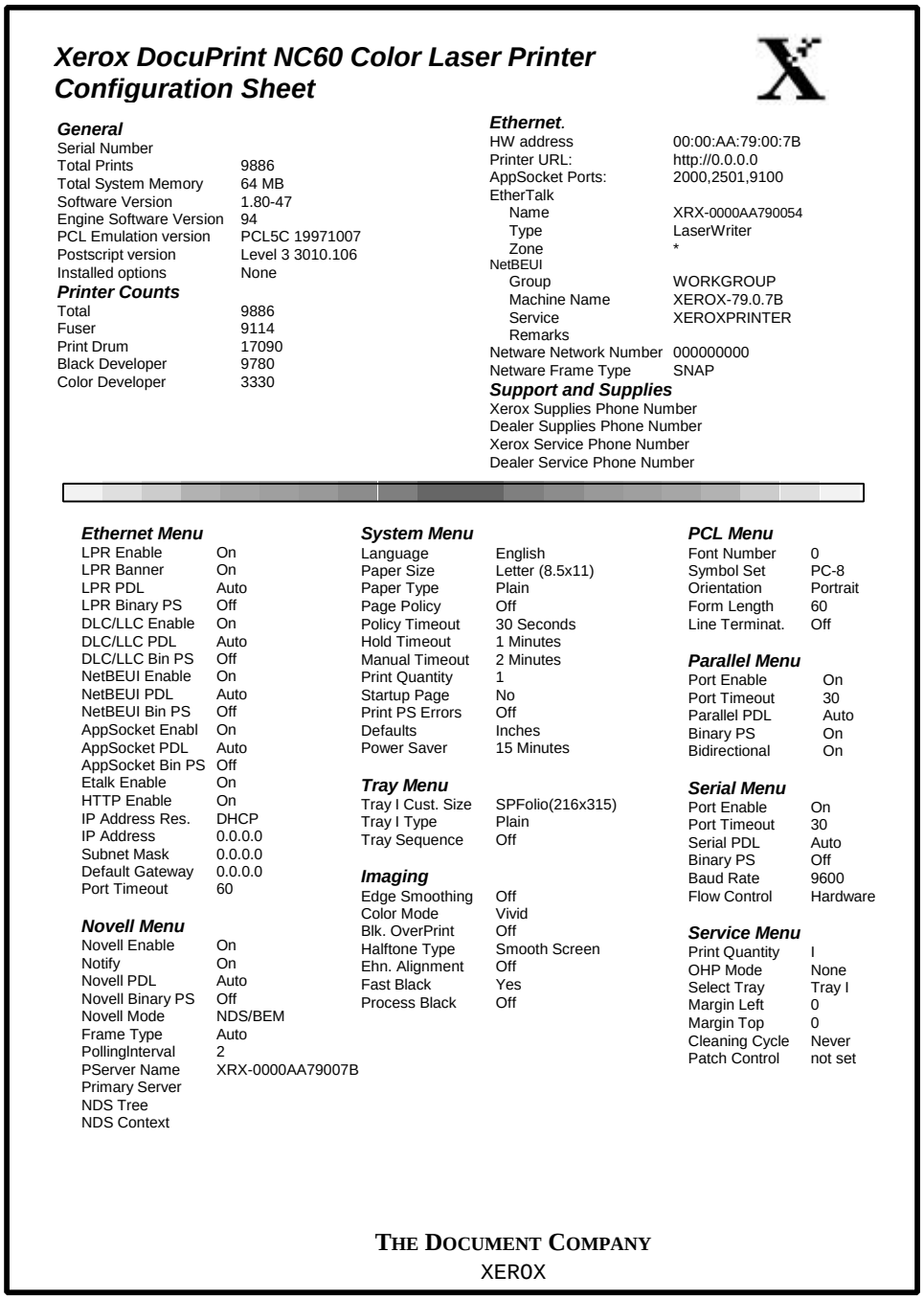
CONFIGURATION [NC60]

Press	Display Reads
Menu Up - until	Menus Print
Item Down - until	Print Config Sheet
Enter	Processing . . . Config Sheet

This is the configuration page it lists the printer configuration and network settings. The customer should retain a copy of this page. If you replace the ESS, PWB all of these setting will be lost.



Xerox DocuPrint NC60 Color Laser Printer
Configuration Sheet

General

Serial Number	
Total Prints	9886
Total System Memory	64 MB
Software Version	1.80-47
Engine Software Version	94
PCL Emulation version	PCL5C 19971007
Postscript version	Level 3 3010.106
Installed options	None

Printer Counts

Total	9886
Fuser	9114
Print Drum	17090
Black Developer	9780
Color Developer	3330

Ethernet.

HW address	00:00:AA:79:00:7B
Printer URL:	http://0.0.0.0
AppSocket Ports:	2000,2501,9100
EtherTalk	
Name	XRX-0000AA790054
Type	LaserWriter
Zone	*
NetBEUI	
Group	WORKGROUP
Machine Name	XEROX-79.0.7B
Service	XEROXPRINTER
Remarks	
Netware Network Number	000000000
Netware Frame Type	SNAP

Support and Supplies

Xerox Supplies Phone Number
Dealer Supplies Phone Number
Xerox Service Phone Number
Dealer Service Phone Number

Ethernet Menu

LPR Enable	On
LPR Banner	On
LPR PDL	Auto
LPR Binary PS	Off
DLC/LLC Enable	On
DLC/LLC PDL	Auto
DLC/LLC Bin PS	Off
NetBEUI Enable	On
NetBEUI PDL	Auto
NetBEUI Bin PS	Off
AppSocket Enabl	On
AppSocket PDL	Auto
AppSocket Bin PS	Off
Etalk Enable	On
HTTP Enable	On
IP Address Res.	DHCP
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
Port Timeout	60

Novell Menu

Novell Enable	On
Notify	On
Novell PDL	Auto
Novell Binary PS	Off
Novell Mode	NDS/BEM
Frame Type	Auto
PollingInterval	2
PServer Name	XRX-0000AA79007B
Primary Server	
NDS Tree	
NDS Context	

System Menu

Language	English
Paper Size	Letter (8.5x11)
Paper Type	Plain
Page Policy	Off
Policy Timeout	30 Seconds
Hold Timeout	1 Minutes
Manual Timeout	2 Minutes
Print Quantity	1
Startup Page	No
Print PS Errors	Off
Defaults	Inches
Power Saver	15 Minutes

Tray Menu

Tray I Cust. Size	SPFolio(216x315)
Tray I Type	Plain
Tray Sequence	Off

Imaging

Edge Smoothing	Off
Color Mode	Vivid
Blk. OverPrint	Off
Halftone Type	Smooth Screen
Ehn. Alignment	Off
Fast Black	Yes
Process Black	Off

PCL Menu

Font Number	0
Symbol Set	PC-8
Orientation	Portrait
Form Length	60
Line Terminat.	Off

Parallel Menu

Port Enable	On
Port Timeout	30
Parallel PDL	Auto
Binary PS	On
Bidirectional	On

Serial Menu

Port Enable	On
Port Timeout	30
Serial PDL	Auto
Binary PS	Off
Baud Rate	9600
Flow Control	Hardware

Service Menu

Print Quantity	I
OHP Mode	None
Select Tray	Tray I
Margin Left	0
Margin Top	0
Cleaning Cycle	Never
Patch Control	not set

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DIAGNOSTIC SHEET (C55/C55mp)

Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< SERVICE >
Enter	< TEST PATTERNS >
Enter	<PRINT PQ SET>
Next - until	< DIAGNOSTICS >
Enter	< YES >
Enter	< PROCESSING >

This page lists the many of the NVM values for the printer. For a detailed explanation of this, page refer to Section 3 ESS GENERATED TEST PATTERNS.

Xerox
DocuPrint C55mp
Color Laser Printer

Printer Diagnostics

Process Control Status
- Black: Okay
- Cyan: Okay
- Magenta: Okay
- Yellow: Okay
- Calibration: Okay

Density Rate Setpoints
- Black: 90
- Cyan: 90
- Magenta: 90
- Yellow: 90

Toner Concentration
- Setpoint
  - Black: 91
  - Cyan: 94
  - Magenta: 102
  - Yellow: 96
- Control Point
  - Black: 89
  - Cyan: 94
  - Magenta: 100
  - Yellow: 88
- Value
  - Black: 92
  - Cyan: 94
  - Magenta: 102
  - Yellow: 84

Process Voltage
- Transfer Bias
  - Paper 1400 Volts
  - OHP 2200 Volts
- Developer Bias
  - Black: 357 Volts
  - Cyan: 364 Volts
  - Magenta: 421 Volts
  - Yellow: 374 Volts

General Information
- Software Version: x.x.x
- Software Part Number:xxxxxxxx
- Engine software Version: xx
- Serial Number: xxx xxx xxx
- Total Ram Installed: 24
  - Base: 8 Mb
  - J8/J9: 16 Mb
  - J10/J11: 0 Mb
- Total Pages
- Binary Lossy Counter: 0 Prints
- Contone Lossy Counter: 0 Prints
- Relative Humidity: 20 Counts
- Temperature: 107° Counts
- Fuser Temperature: 157° Counts

Consumable Usage Status
- Fuser: xxx Prints
- Print Drum: 939 Images
- Fuser Oil: Okay
- Black Developer: xxx Images
- Color Developers
  - Cyan: xx Images
  - Magenta: xx Images
  - Yellow: xx Images

Print Counts
- Total Pages: xxxxx
- Black: xxxxx
- Cyan: xxxxx
- Magenta: xxxxx
- Yellow: xxxxx

Adjustments
- Top Margin: +0mm
- Left Margin: +0mm
- Cleaning Cycle: Never
- TC Patch Control: Yes

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DIAGNOSTIC SHEET [NC60]

Press	Display Reads
Menu Up - until	Menus Service Menu
Item Down - until	Print Diag. Summary
Enter	Processing . . . Diag Summary

This page lists the many of the NVM values for the printer. For a detailed explanation of this page, refer to Section 3 ESS GENERATED TEST PATTERNS.

Xerox DocuPrint NC60 Color Laser Printer
Diagnostic Sheet

General Information

Serial Number:	xxx-xxxxxx
Software Version:	1.80-39 I NL.ROM
Engine Software Version:	94
Total System Memory:	64
Base:	32 MB
J3	32MB
J4	0 MB
J5	0 MB
J6	0 MB
Binary Lossy Counter:	0
Contone Lossy Counter:	0
Relative Humidity:	20
Temperature:	107
Fuser Temperature:	157

Print Counts

Total	xxxxx
Black	xxxxx
Cyan	xxxxx
Magenta	xxxxx
Yellow	xxxxx

Consumable Usage Status

Fuser:	xxx
Print Drum:	xxx
Fuser Oil:	Okay
Black Developer:	xxx
Color Developers	
Cyan	xx
Magenta	xx
Yellow	xx

Adjustments

Top Margin	0.0
Left Margin	0.0
Cleaning Cycle	Never
TC Patch Control	Off
Fast Black	On
Extra Toner	On
Cyclic toneup	On
OHP Mode	None

Process Control Status

Black	OK
Cyan	OK
Magenta	OK
Yellow	OK
Calibration	OK

Density Rate Set Points

Black	90
Cyan	90
Magenta	90
Yellow	90
Color Balance	Default

Gamma Set Points

Black	41
Cyan	61
Magenta	64
Yellow	62

Toner Concentration

Set Point	
Black	95
Cyan	112
Magenta	110
Yellow	102
Control Point	
Black	103
Cyan	112
Magenta	103
Yellow	102
Value	
Black	103
Cyan	105
Magenta	92
Yellow	103
Delta	
Black	0
Cyan	7
Magenta	11
Yellow	-1

Adjustments

Transfer Bias	
Paper	
High	1000 Volts/105 volts
Normal	1000 Volts/105 volts
Low	1200 Volts/105 volts
OHP	
High	2200 Volts/200 volts
Normal	2000 Volts/200 volts
Low	2200 Volts/105 volts
Developer Bias	
Black	265 Volts
Cyan	345 Volts
Magenta	345 Volts
Yellow	341 Volts

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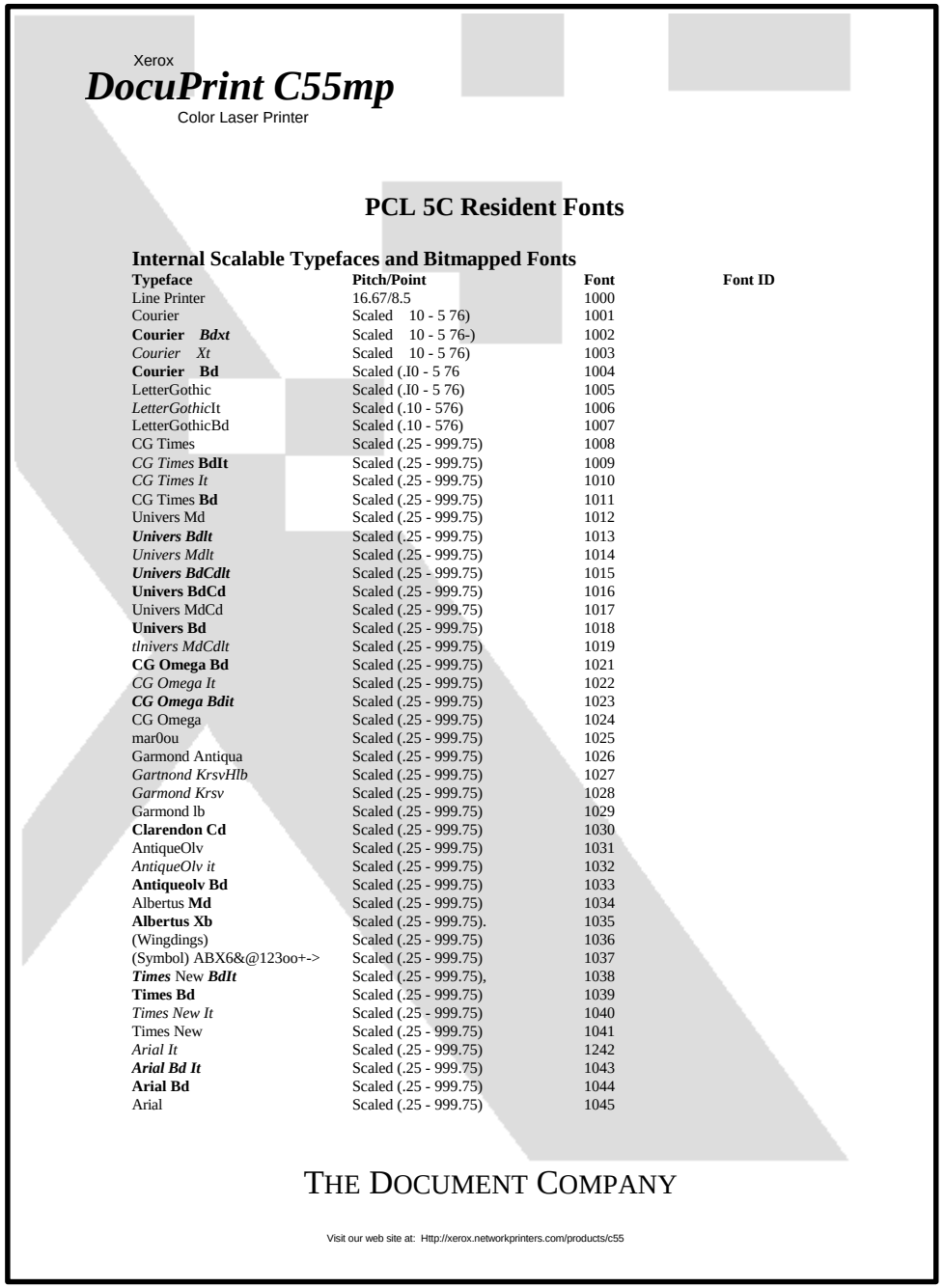
Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< PRINT >
Enter	< STARTUP >
Next - until	< PCL FONT >
Enter	< YES >
Enter	< PROCESSING >

This page lists the PCL Fonts which are resident on the ESS. This will vary somewhat from printer to printer.



Xerox

DocuPrint C55mp

Color Laser Printer

PCL 5C Resident Fonts

Internal Scalable Typefaces and Bitmapped Fonts

Typeface	Pitch/Point	Font	Font ID
Line Printer	16.67/8.5	1000	
Courier	Scaled 10 - 5 76)	1001	
Courier *Bdxt*	Scaled 10 - 5 76-)	1002	
Courier Xt	Scaled 10 - 5 76)	1003	
Courier Bd	Scaled (.I0 - 5 76	1004	
LetterGothic	Scaled (.I0 - 5 76)	1005	
*LetterGothic*It	Scaled (.10 - 576)	1006	
LetterGothicBd	Scaled (.10 - 576)	1007	
CG Times	Scaled (.25 - 999.75)	1008	
CG Times **BdIt**	Scaled (.25 - 999.75)	1009	
CG Times It	Scaled (.25 - 999.75)	1010	
CG Times **Bd**	Scaled (.25 - 999.75)	1011	
Univers Md	Scaled (.25 - 999.75)	1012	
Univers Bdlt	Scaled (.25 - 999.75)	1013	
Univers Mdlt	Scaled (.25 - 999.75)	1014	
Univers BdCdlt	Scaled (.25 - 999.75)	1015	
Univers BdCd	Scaled (.25 - 999.75)	1016	
Univers MdCd	Scaled (.25 - 999.75)	1017	
Univers Bd	Scaled (.25 - 999.75)	1018	
tlnivers MdCdlt	Scaled (.25 - 999.75)	1019	
CG Omega Bd	Scaled (.25 - 999.75)	1021	
CG Omega It	Scaled (.25 - 999.75)	1022	
CG Omega Bdit	Scaled (.25 - 999.75)	1023	
CG Omega	Scaled (.25 - 999.75)	1024	
mar0ou	Scaled (.25 - 999.75)	1025	
Garmond Antiqua	Scaled (.25 - 999.75)	1026	
Gartnond KrsvHlb	Scaled (.25 - 999.75)	1027	
Garmond Krsv	Scaled (.25 - 999.75)	1028	
Garmond lb	Scaled (.25 - 999.75)	1029	
Clarendon Cd	Scaled (.25 - 999.75)	1030	
AntiqueOlv	Scaled (.25 - 999.75)	1031	
AntiqueOlv it	Scaled (.25 - 999.75)	1032	
Antiqueolv Bd	Scaled (.25 - 999.75)	1033	
Albertus **Md**	Scaled (.25 - 999.75)	1034	
Albertus Xb	Scaled (.25 - 999.75).	1035	
(Wingdings)	Scaled (.25 - 999.75)	1036	
(Symbol) ABX6&@123oo+->	Scaled (.25 - 999.75)	1037	
Times New ***BdIt***	Scaled (.25 - 999.75),	1038	
Times Bd	Scaled (.25 - 999.75)	1039	
Times New It	Scaled (.25 - 999.75)	1040	
Times New	Scaled (.25 - 999.75)	1041	
Arial It	Scaled (.25 - 999.75)	1242	
Arial Bd It	Scaled (.25 - 999.75)	1043	
Arial Bd	Scaled (.25 - 999.75)	1044	
Arial	Scaled (.25 - 999.75)	1045	

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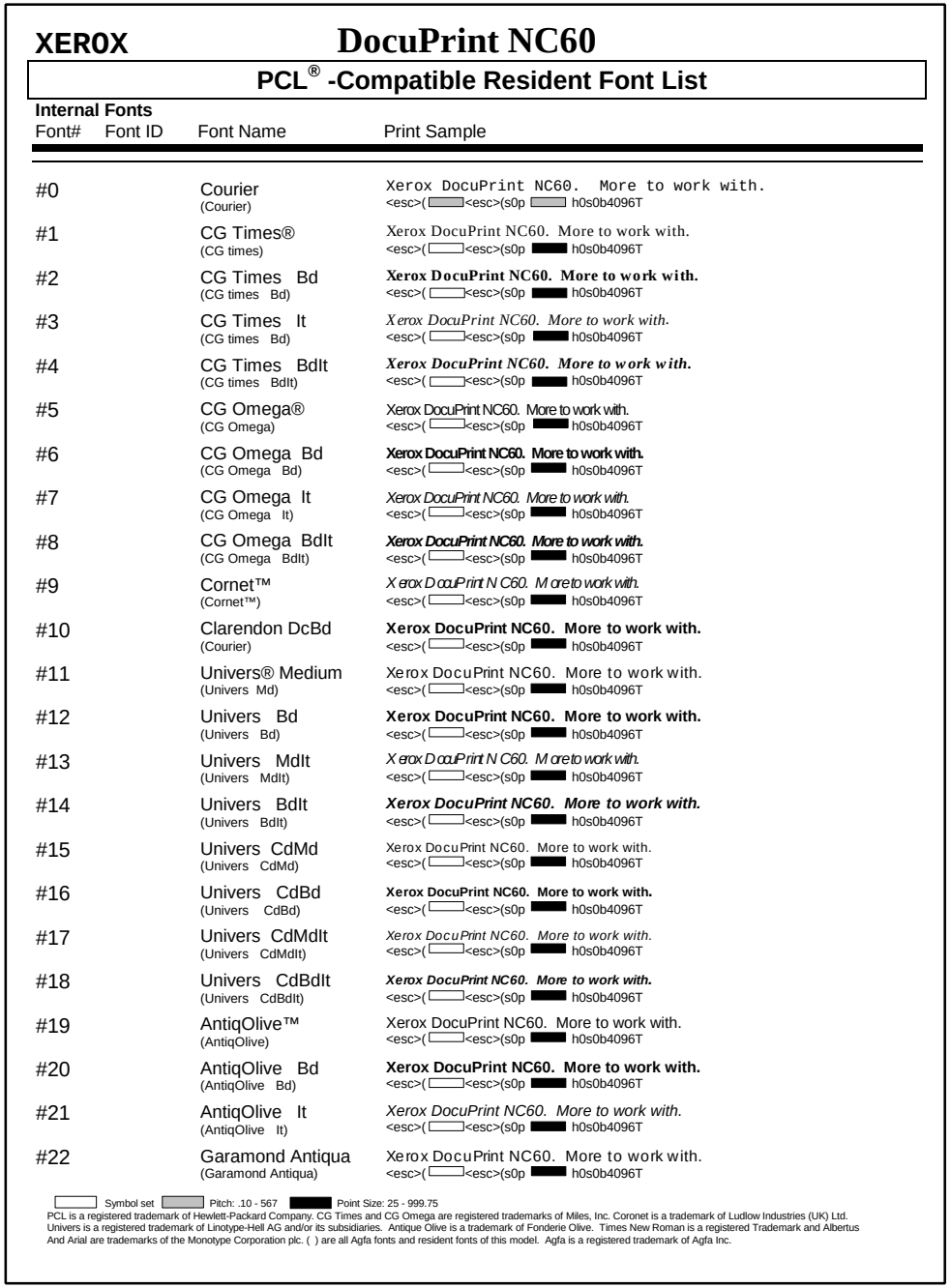
Press	Display Reads
Menu Up - until	Menus Print
Item Down - until	Print PCL Fonts
Enter	Processing . . . PCL Fonts

This is page one of a two page menu and lists the 45 PCL Fonts which are resident on the ESS. This may vary somewhat from printer to printer.



XEROX **DocuPrint NC60**

PCL® -Compatible Resident Font List

Internal Fonts

Font#	Font ID	Font Name	Print Sample
#0		Courier (Courier)	Xerox DocuPrint NC60. More to work with. <esc>(<esc>(s0p h0s0b4096T
#1		CG Times® (CG times)	Xerox DocuPrint NC60. More to work with. <esc>(<esc>(s0p h0s0b4096T
#2		CG Times Bd (CG times Bd)	**Xerox DocuPrint NC60. More to work with.** <esc>(<esc>(s0p h0s0b4096T
#3		CG Times It (CG times Bd)	*Xerox DocuPrint NC60. More to work with.* <esc>(<esc>(s0p h0s0b4096T
#4		CG Times BdIt (CG times BdIt)	***Xerox DocuPrint NC60. More to work with.*** <esc>(<esc>(s0p h0s0b4096T
#5		CG Omega® (CG Omega)	Xerox DocuPrint NC60. More to work with. <esc>(<esc>(s0p h0s0b4096T
#6		CG Omega Bd (CG Omega Bd)	**Xerox DocuPrint NC60. More to work with.** <esc>(<esc>(s0p h0s0b4096T
#7		CG Omega It (CG Omega It)	*Xerox DocuPrint NC60. More to work with.* <esc>(<esc>(s0p h0s0b4096T
#8		CG Omega BdIt (CG Omega BdIt)	***Xerox DocuPrint NC60. More to work with.*** <esc>(<esc>(s0p h0s0b4096T
#9		Cornet™ (Cornet™)	*Xerox DocuPrint NC60. More to work with.* <esc>(<esc>(s0p h0s0b4096T
#10		Clarendon DcBd (Courier)	**Xerox DocuPrint NC60. More to work with.** <esc>(<esc>(s0p h0s0b4096T
#11		Univers® Medium (Univers Md)	Xerox DocuPrint NC60. More to work with. <esc>(<esc>(s0p h0s0b4096T
#12		Univers Bd (Univers Bd)	**Xerox DocuPrint NC60. More to work with.** <esc>(<esc>(s0p h0s0b4096T
#13		Univers MdIt (Univers MdIt)	*Xerox DocuPrint NC60. More to work with.* <esc>(<esc>(s0p h0s0b4096T
#14		Univers BdIt (Univers BdIt)	***Xerox DocuPrint NC60. More to work with.*** <esc>(<esc>(s0p h0s0b4096T
#15		Univers CdMd (Univers CdMd)	Xerox DocuPrint NC60. More to work with. <esc>(<esc>(s0p h0s0b4096T
#16		Univers CdBd (Univers CdBd)	**Xerox DocuPrint NC60. More to work with.** <esc>(<esc>(s0p h0s0b4096T
#17		Univers CdMdIt (Univers CdMdIt)	*Xerox DocuPrint NC60. More to work with.* <esc>(<esc>(s0p h0s0b4096T
#18		Univers CdBdIt (Univers CdBdIt)	***Xerox DocuPrint NC60. More to work with.*** <esc>(<esc>(s0p h0s0b4096T
#19		AntiqOlive™ (AntiqOlive)	Xerox DocuPrint NC60. More to work with. <esc>(<esc>(s0p h0s0b4096T
#20		AntiqOlive Bd (AntiqOlive Bd)	**Xerox DocuPrint NC60. More to work with.** <esc>(<esc>(s0p h0s0b4096T
#21		AntiqOlive It (AntiqOlive It)	*Xerox DocuPrint NC60. More to work with.* <esc>(<esc>(s0p h0s0b4096T
#22		Garamond Antiqua (Garamond Antiqua)	Xerox DocuPrint NC60. More to work with. <esc>(<esc>(s0p h0s0b4096T

Symbol set Pitch: .10 - 567 Point Size: 25 - 999.75

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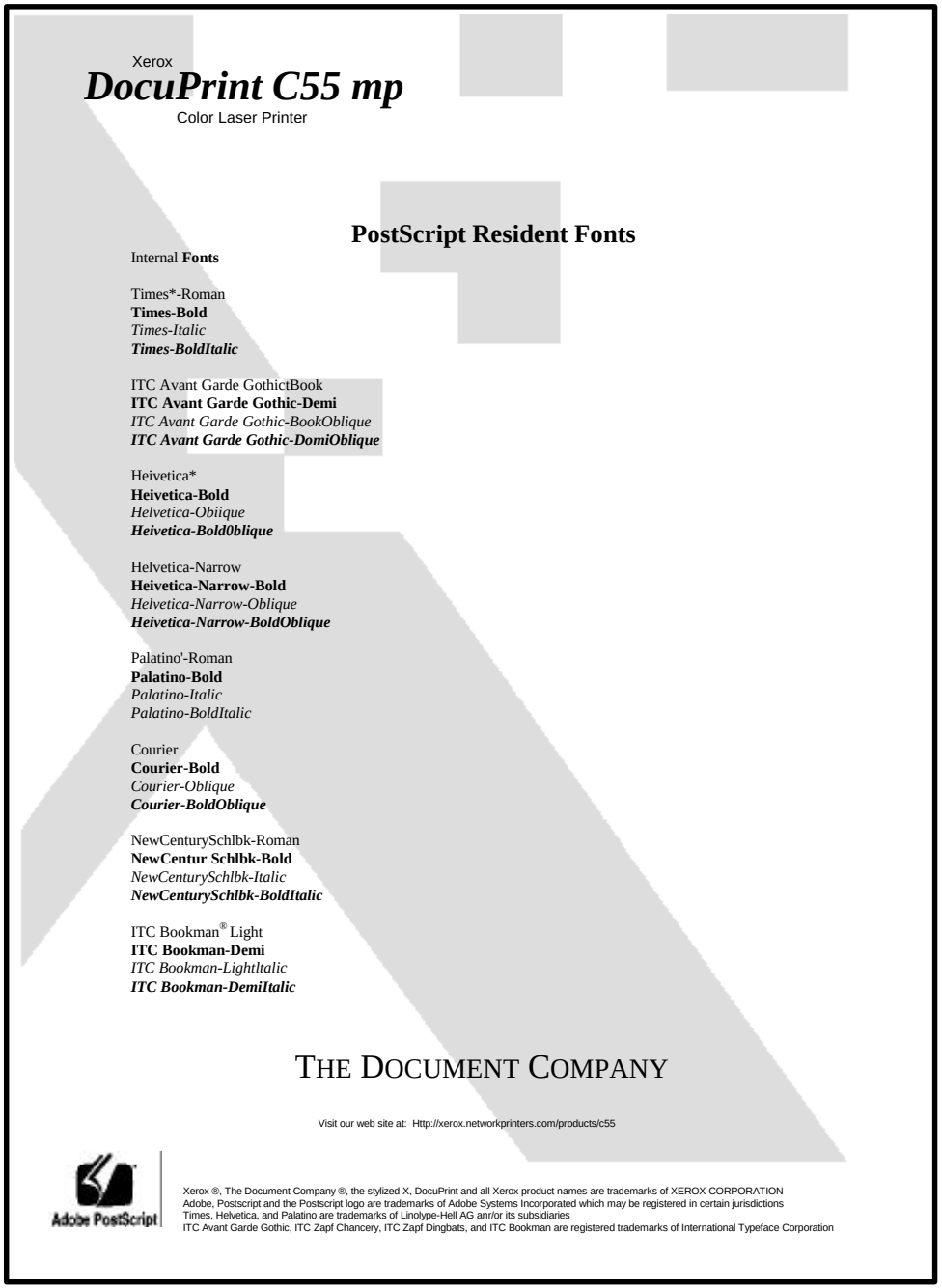
Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< PRINT >
Enter	< STARTUP >
Next - until	< PS FONTS >
Enter	< YES >
Enter	< PROCESSING >

This page lists the PostScript Fonts which are resident on the ESS. This will vary somewhat from printer to printer.



Xerox

DocuPrint C55 mp

Color Laser Printer

PostScript Resident Fonts

Internal **Fonts**

Times*-Roman
Times-Bold
Times-Italic
Times-BoldItalic

ITC Avant Garde GothictBook
ITC Avant Garde Gothic-Demi
ITC Avant Garde Gothic-BookOblique
ITC Avant Garde Gothic-DomiOblique

Heivetica*
Heivetica-Bold
Helvetica-Obiique
Heivetica-Bold0blique

Helvetica-Narrow
Heivetica-Narrow-Bold
Helvetica-Narrow-Oblique
Heivetica-Narrow-BoldOblique

Palatino'-Roman
Palatino-Bold
Palatino-Italic
Palatino-BoldItalic

Courier
Courier-Bold
Courier-Oblique
Courier-BoldOblique

NewCenturySchlbk-Roman
NewCentur Schlbk-Bold
NewCenturySchlbk-Italic
NewCenturySchlbk-BoldItalic

ITC Bookman® Light
ITC Bookman-Demi
ITC Bookman-LightItalic
ITC Bookman-DemiItalic

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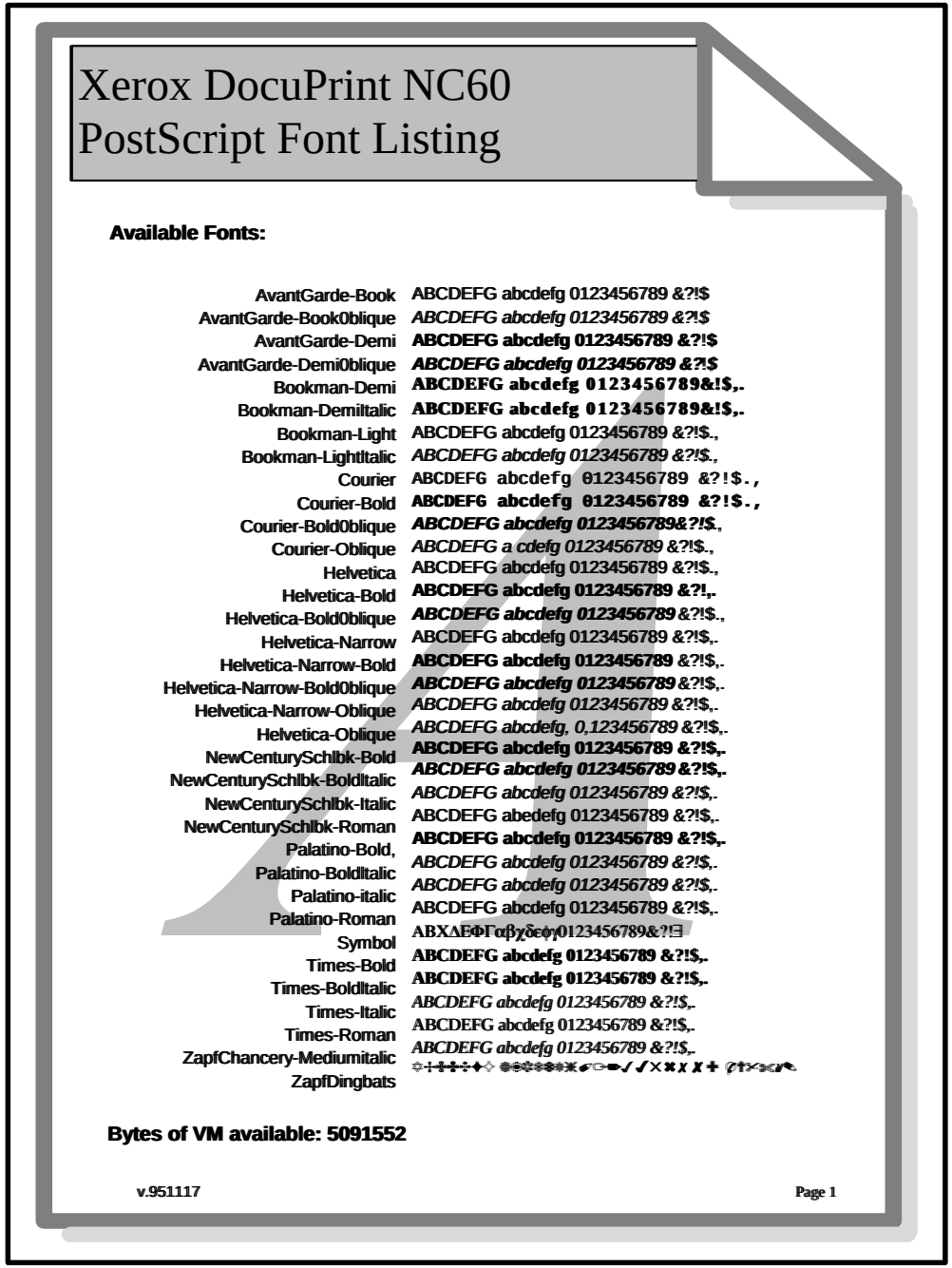
Adobe PostScript

Press	Display Reads
Menu Up - until	Menus Print
Item Down - until	Print PS Font List
Enter	Processing . . . PostScript

This page lists the PostScript fonts which are resident on the ESS. This may vary from printer to printer.



Xerox DocuPrint NC60
PostScript Font Listing

Available Fonts:

AvantGarde-Book	ABCDEFG abcdefg 0123456789 &?!$
AvantGarde-BookOblique	*ABCDEFG abcdefg 0123456789 &?!$*
AvantGarde-Demi	**ABCDEFG abcdefg 0123456789 &?!$**
AvantGarde-DemiOblique	***ABCDEFG abcdefg 0123456789 &?!$***
Bookman-Demi	**ABCDEFG abcdefg 0123456789&!$,.**
Bookman-DemiItalic	**ABCDEFG abcdefg 0123456789&!$,.**
Bookman-Light	ABCDEFG abcdefg 0123456789 &?!$.,
Bookman-LightItalic	*ABCDEFG abcdefg 0123456789 &?!$.,*
Courier	ABCDEFG abcdefg 0123456789 &?!$.,
Courier-Bold	**ABCDEFG abcdefg 0123456789 &?!$.,**
Courier-BoldOblique	***ABCDEFG abcdefg 0123456789&?!$.,***
Courier-Oblique	*ABCDEFG a cdefg 0123456789 &?!$.,*
Helvetica	ABCDEFG abcdefg 0123456789 &?!$.,
Helvetica-Bold	**ABCDEFG abcdefg 0123456789 &?!,.**
Helvetica-BoldOblique	***ABCDEFG abcdefg 0123456789*** &?!$.,
Helvetica-Narrow	ABCDEFG abcdefg 0123456789 &?!$,.
Helvetica-Narrow-Bold	**ABCDEFG abcdefg 0123456789** &?!$,.
Helvetica-Narrow-BoldOblique	***ABCDEFG abcdefg 0123456789*** &?!$,.
Helvetica-Narrow-Oblique	*ABCDEFG abcdefg 0123456789 &?!$,.*
Helvetica-Oblique	*ABCDEFG abcdefg, 0,123456789 &?!$,.*
NewCenturySchlbk-Bold	**ABCDEFG abcdefg 0123456789 &?!$,.**
NewCenturySchlbk-BoldItalic	***ABCDEFG abcdefg 0123456789 &?!$,.***
NewCenturySchlbk-Italic	*ABCDEFG abcdefg 0123456789 &?!$,.*
NewCenturySchlbk-Roman	ABCDEFG abedefg 0123456789 &?!$,.
Palatino-Bold,	**ABCDEFG abcdefg 0123456789 &?!$,.**
Palatino-BoldItalic	*ABCDEFG abcdefg 0123456789 &?!$,.*
Palatino-italic	*ABCDEFG abcdefg 0123456789 &?!$,.*
Palatino-Roman	ABCDEFG abcdefg 0123456789 &?!$,.
Symbol	ΑΒΧΔΕΦΓαβχδεφ0123456789&?!∃
Times-Bold	**ABCDEFG abcdefg 0123456789 &?!$,.**
Times-BoldItalic	**ABCDEFG abcdefg 0123456789 &?!$,.**
Times-Italic	*ABCDEFG abcdefg 0123456789 &?!$,.*
Times-Roman	ABCDEFG abcdefg 0123456789 &?!$,.
ZapfChancery-MediumItalic	*ABCDEFG abcdefg 0123456789 &?!$,.*
ZapfDingbats	✡✢✣✤✥✦✧ ❍❍❍❍❍✍☞✒✓✓✕✖✗✘✚ ✆✈✉✍

Bytes of VM available: 5091552

v.951117

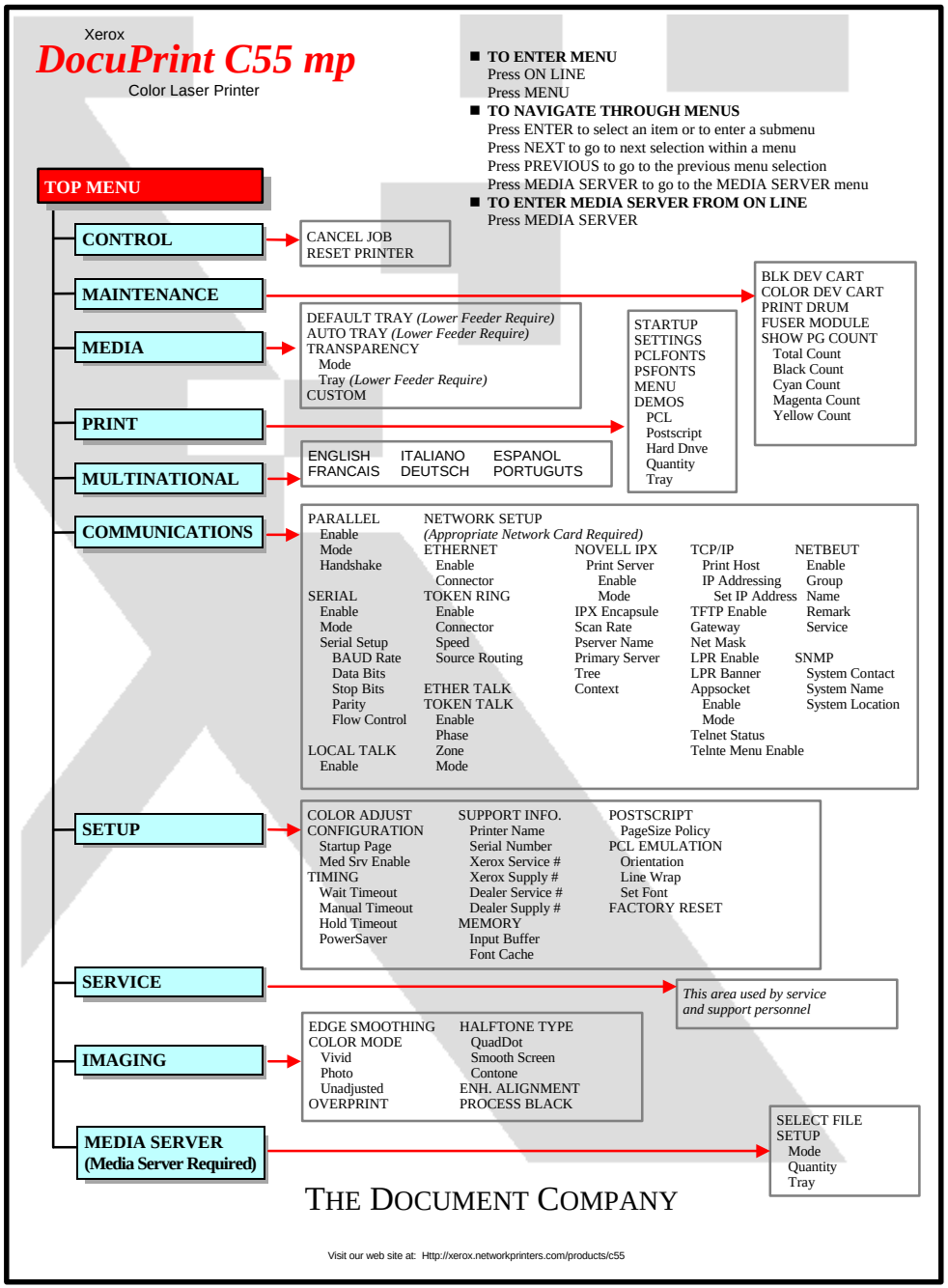
Page 1

MENU (C55/C55mp)

Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< PRINT >
Enter	< STARTUP >
Next - until	< MENU >
Enter	< YES >
Enter	< PROCESSING >

This is the Menu page. It shows a overall view of the Menu structure on the C55.

The Service Menu is not shown since it is not used by the customer.



Press	Display Reads
Menu Up - until	Menus Print
Item Down - until	Print Menu Map
Enter	Processing . . . Menu Map

This is the Menu page. It shows the first two layers of the Menu structure on the NC60

Xerox DocuPrint NC60 Color Laser Printer
Menu Map

Job Menu
- Cancel Job
- Form Feed
- Restart Pnnter

Password Menu
- Enter Password
- Print
- Delete

Tray Menu
- Tray I Cost. Size
- Tray I Type
- Tray Sequence

PCL Menu
- Font Number
- Pitch
- Point Size
- Symbol Set
- Orientation
- Fom Length
- Line Terminat.

System Menu
- Language
- Paper Size
- Paper Type
- Page Policy
- Policy Timeout
- Hold Timeout
- Manual Timeout
- Print Quantity
- Startup Page
- Print PS Errors
- Defaults
- Power Saver

Color Adjust
- Color Density
- Black Density
- Color Balance
- Cancel Changes
- Color Defaults

Imaging
- Edge Smoothing
- Color Mode
- Blk. OverPrint
- Halftone Type
- Ehn. Alignment
- Fast Black
- Process Black

Parallel Menu
- Port Enable
- Port Timeout
- Parallel PDL
- Binary PS
- Bidirectional

Setial Menu
- Port Enable
- Port Timeout
- Serial PDL
- Binary PS
- Baud Rate
- Flow Control

Ethernet Menu
- LPR Enable
- LPR Banner
- LPR PDL
- LPR Binary PS
- DLC/DLL Enable
- DLC/DLL PDL
- DLC/DLL Bin PS
- NetBEUI Enable
- NetBEUI PDL
- NetBeui Bin PS
- AppSocket Enabl
- AppSocket PDL
- AppSocket Bin PS
- Etalk Enable
- HTTP Enable
- IP Address Res.
- IP Address
- Subnet Mask
- Default Gateway
- Port Timeout

Novell Menu
- Novell Enable
- Notify
- Novell PDL
- Novell Binary PS
- Novell Mode
- Frame Type
- PollingInterval
- PServer Name
- Priniary Server
- NDS Tree
- NDS Context

Print Menu
- Startup Page
- Config Sheet
- PCL Font List
- PS Font List
- PS Demo
- Menu Map
- Fault History
- Tips & Tricks
- Disk Directory
- Print Quantity
- Select Tray

Media Server
- Select File
- Print Quantity
- Select Tray

Service Menu
- Config Sheet
- Diag. Summary
- Print PQ Set
- Test Patterns
- Print Quantity
- OHP Mode
- Select Tray
- Margin Left
- Margin Top
- Cleaning Cycle
- Patch Control
- Show Page Counts
- Show Setpoints
- CRU Usage
- Lossy Counter
- Faults Active
- Fault History
- S/W Levels

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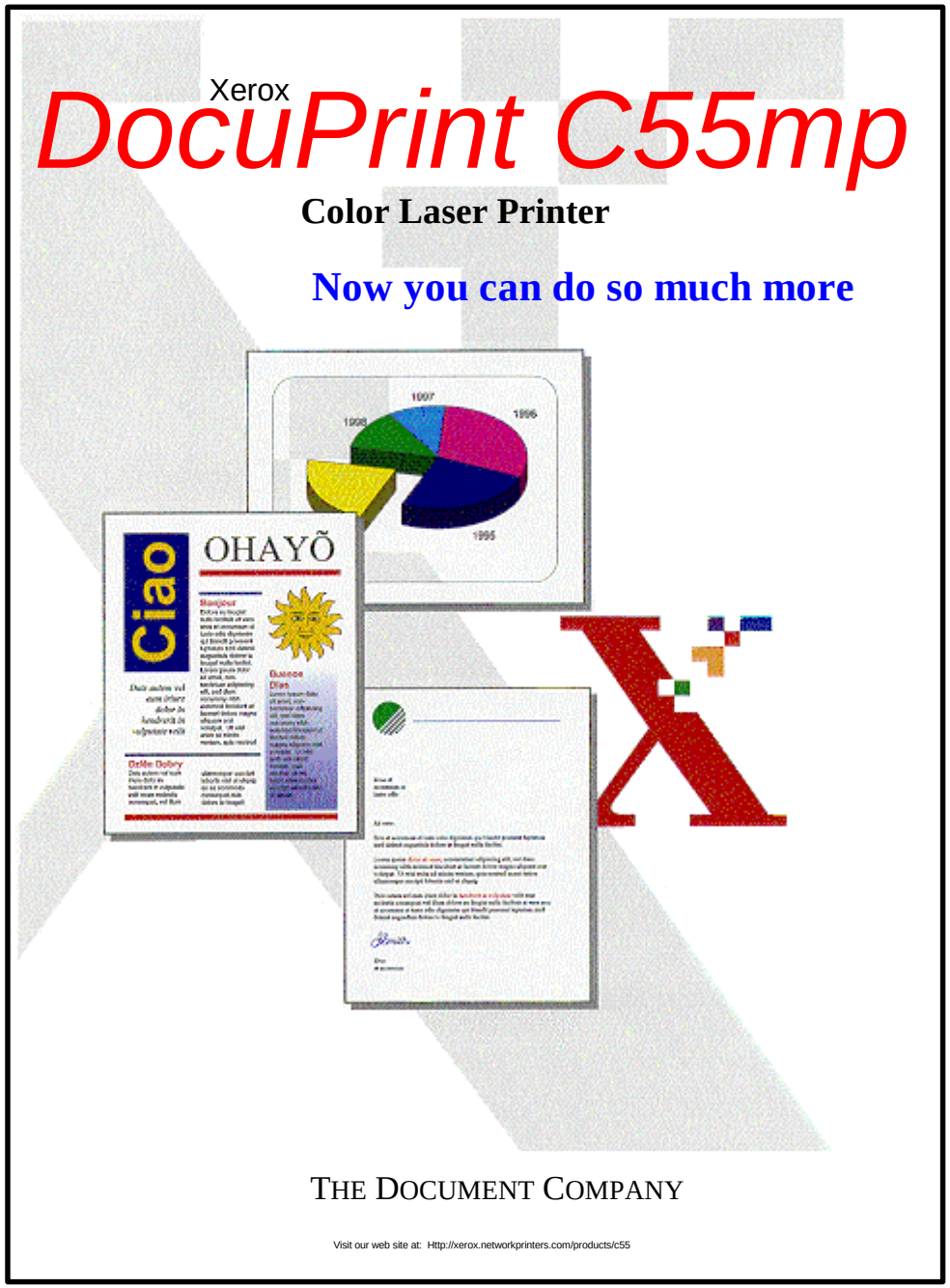
PCL DEMO (C55/C55mp)

Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< PRINT >
Enter	< STARTUP >
Next - until	< DEMOS >
Enter	< PCL >
Enter	< QUANTITY >
Enter	< 1 >
Enter	< RUN JOB >
Enter	< YES >
Enter	< PROCESSING >

This is a demo of some PCL 5C capabilities.



Press	Display Reads
Menu Up - until	Menus Print
Item Down - until	Print Fault History
Enter	Processing . . . Fault History

This page lists the last 50 Faults which have occurred on the NC60.

Xerox DocuPrint NC60 Color Laser Printer
Fault History Sheet

Page Count	Fault Description . .
1725	E7 PRINT DRUM , JAM OPEN PRINTER
1678	E4 INPUT JAM , OPEN PRINTER
1650	E5 FUSER , JAM OPEN PRINTER
01600	E4 INPUT JAM , OPEN PRINTER
1590	E1 TRAY 1 JAM , JAM OPEN PRINTER
1575	E1 TRAY 1 JAM , JAM OPEN PRINTER
1500	E4 INPUT JAM , OPEN PRINTER
1456	E8 OUTPUT JAM , OPEN PRINTER
1389	E7 PRINT DRUM , JAM OPEN PRINTER
1350	E4 INPUT JAM , OPEN PRINTER
1300	E5 FUSER , JAM OPEN PRINTER
1256	E4 INPUT JAM , OPEN PRINTER
1202	E1 TRAY 1 JAM , JAM OPEN PRINTER
1190	E1 TRAY 1 JAM , JAM OPEN PRINTER
1180	E4 INPUT JAM , OPEN PRINTER
1156	E8 OUTPUT JAM , OPEN PRINTER
1150	E7 PRINT DRUM , JAM OPEN PRINTER
1125	E4 INPUT JAM , OPEN PRINTER
1110	E5 FUSER , JAM OPEN PRINTER
1090	E4 INPUT JAM , OPEN PRINTER
1070	E1 TRAY 1 JAM , JAM OPEN PRINTER
1065	E1 TRAY 1 JAM , JAM OPEN PRINTER
1025	E4 INPUT JAM , OPEN PRINTER
1012	E8 OUTPUT JAM , OPEN PRINTER
982	E7 PRINT DRUM , JAM OPEN PRINTER
980	E4 INPUT JAM , OPEN PRINTER
975	E5 FUSER , JAM OPEN PRINTER
950	E4 INPUT JAM , OPEN PRINTER
921	E1 TRAY 1 JAM , JAM OPEN PRINTER
920	E1 TRAY 1 JAM , JAM OPEN PRINTER
900	E4 INPUT JAM , OPEN PRINTER
825	E7 PRINT DRUM , JAM OPEN PRINTER
820	E4 INPUT JAM , OPEN PRINTER
790	E5 FUSER , JAM OPEN PRINTER
766	E4 INPUT JAM , OPEN PRINTER
750	E1 TRAY 1 JAM , JAM OPEN PRINTER
725	E1 TRAY 1 JAM , JAM OPEN PRINTER
700	E4 INPUT JAM , OPEN PRINTER
670	E7 PRINT DRUM , JAM OPEN PRINTER
660	E4 INPUT JAM , OPEN PRINTER
630	E5 FUSER , JAM OPEN PRINTER
592	E4 INPUT JAM , OPEN PRINTER
590	E1 TRAY 1 JAM , JAM OPEN PRINTER
480	E1 TRAY 1 JAM , JAM OPEN PRINTER
425	E4 INPUT JAM , OPEN PRINTER
390	E7 PRINT DRUM , JAM OPEN PRINTER
300	E4 INPUT JAM , OPEN PRINTER
256	E5 FUSER , JAM OPEN PRINTER
147	E4 INPUT JAM , OPEN PRINTER
0	U-2NVRAM ERROR, POWER OFF/ON

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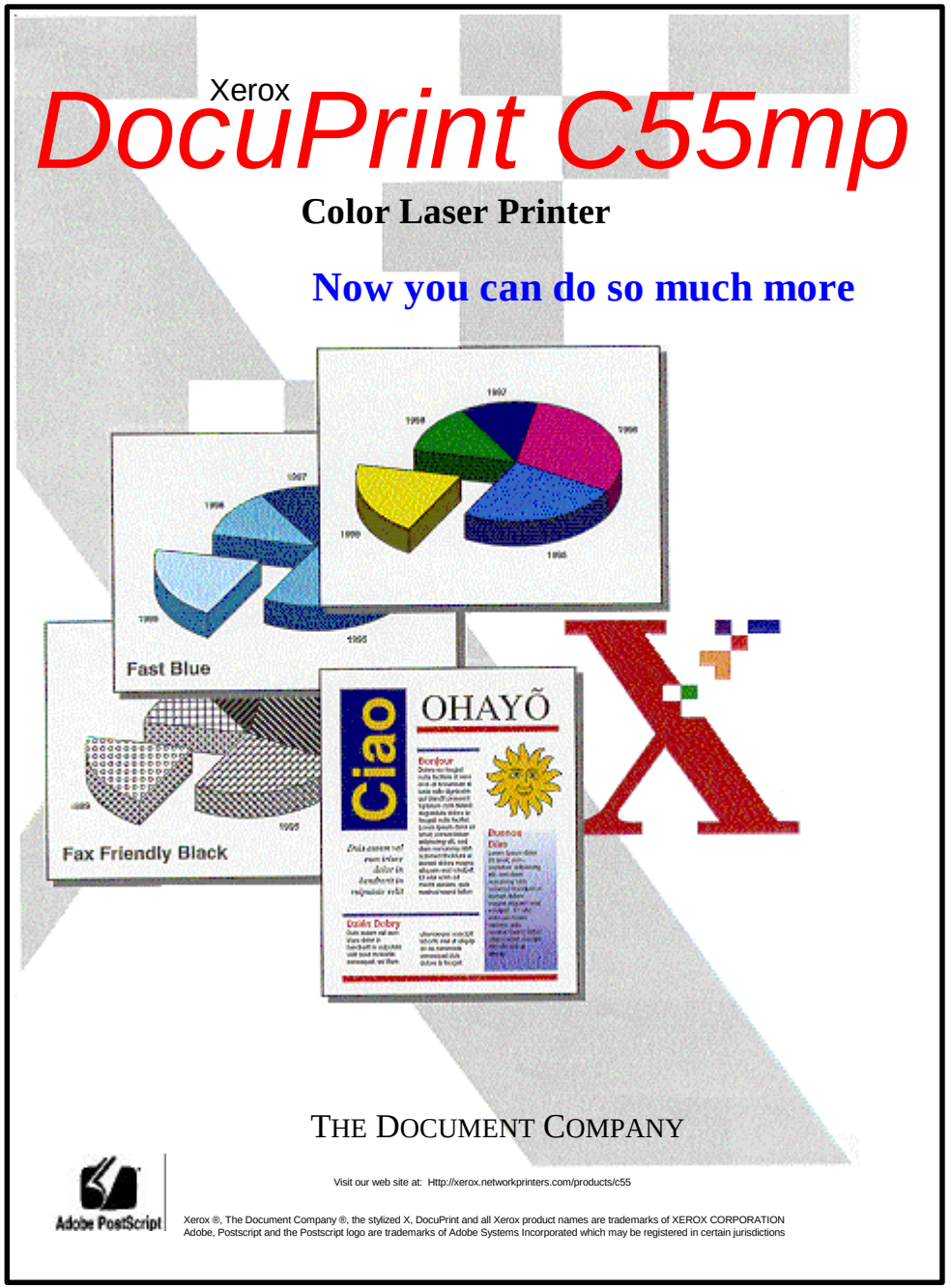
POSTSCRIPT DEMO (C55/C55mp)

Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< PRINT >
Enter	< STARTUP >
Next - until	< DEMOS >
Enter	< PCL >
Next - until	< POSTSCRIPT >
Enter	< QUANTITY >
Enter	< 1 >
Enter	< RUN JOB >
Enter	< YES >
Enter	< PROCESSING >

This is a demo of some of the PostScript features.



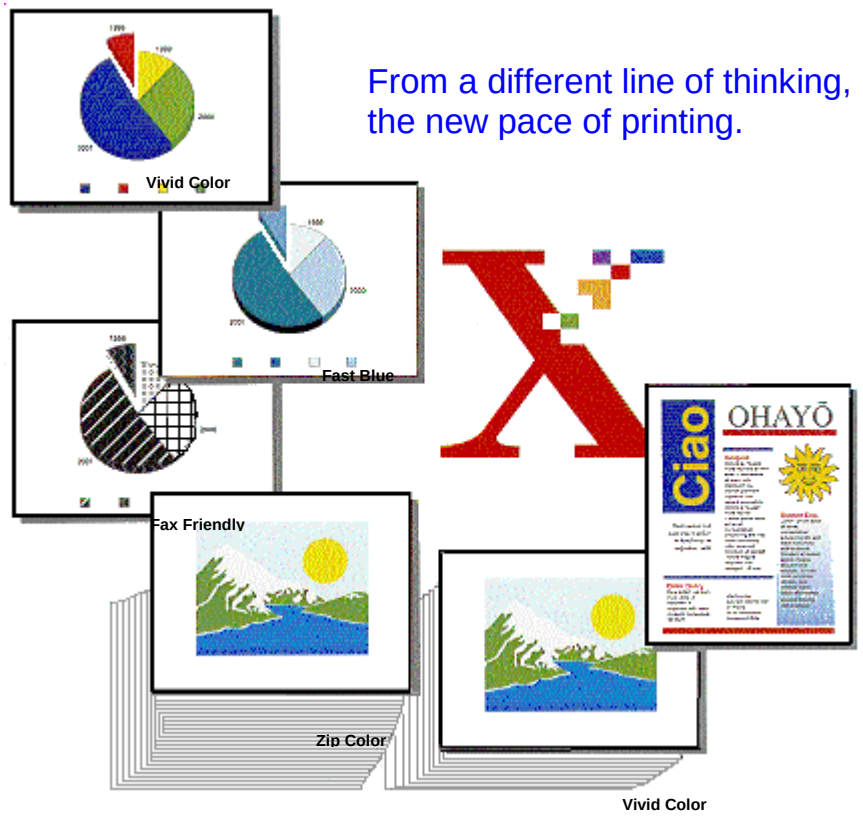
POSTSCRIPT DEMO [NC60]

Press	Display Reads
Menu Up - until	Menus Print
Menu Down - until	Print Postscript Demo
Enter	Processing . . . Postscript Demo

This is a demo of some of the PostScript features.

DocuPrint NC60

Network Color Laser Printer



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the new pace of printing.

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Adobe PostScript 3

Press	Display Reads
Menu Up - until	Menus Print
Item Down - until	Print Tips & Tricks
Enter	Processing . . .

This page lists some common tips and tricks which will make printing easier.

Practical Tips for the: Xerox *DocuPrint NC60* Color Laser Printer

Your new DocuPrint NC60 was designed with many unique features to assist you in producing the highest quality color and black & white prints. These features, along with important tips on how to get the best results with your DocuPrint NC60, are explained below. For the latest product information, please check the Xerox web site at http://xerox.networkprinters.com.

PostScript Printer Driver Features

Using your PostScript Driver enables many of the features listed below.

Intelligent Color
Intelligent Color applies the optimum imaging method for documents containing a mix of photos (bitmaps), charts (graphics) and text. This setting will produce the best combination of print quality and speed for a full range of documents.

Vivid Color
When printing charts and graphs, Vivid Color will enhance your document with bright, solid colors. This setting is recommended for full color business documents.

Enhanced 1200 Image Quality
For the best print quality, choose 1200 Image Quality in your print driver. This selection will produce an ultra-smooth image, without visible 'dots' in the print. Note that with complex documents the first print might be delayed a few seconds.

Refer to the user's guide for additional color settings.

Special Purpose Printing

- *Fax Friendly Black:* Fax Friendly Black converts colors into different patterns of black and white, so you can fax or copy your document without losing any information. The document remains clear, readable, and informative.
- *Fast Blue:* Do you need faster output, but want to keep the impact of color? Fast Blue mode converts your images to shades of black and cyan (blue), while doubling the print speed to 6 ppm.
- *ZipColor:* When full color images with little text are needed quickly, ZipColor increases color print speed by 33% to 4 pages per minute. This feature will also eliminate differential gloss sometimes seen on prints containing dark graphics or photos. For the best black text quality, choose either the Intelligent Color or Vivid Color mode.

Expert Color Control.

If you want to adjust the color of your prints to better match those from another printer, Xerox provides Expert Color Controls. These controls enable you to fine-tune the colors on your printed document.

- *Color Adjustment:* Choose color adjustment from the print driver to make changes for lightness and saturation on individual print jobs.
- *Color Balance:* With Color Balance you can adjust the contrast range between colors from within the driver. This feature enables you to adjust the amount of Red, Green, and Blue in all your documents.

Image Enhancement

- *ImageFix:* Occasionally, scanned images or images downloaded from a digital camera are too dark or light, lacking contrast. ImageFix automatically corrects imperfect photographs by re-balancing, and optimizing the, image as it prints to provide optimal image quality. (Win 95/98/NT only)
- *IntelliRes:* Web sites use low resolution images to speed downloading and viewing on a monitor. However, when these images are printed the result is often unsatisfactory. IntelliRes automatically analyzes these coarse photos and smoothes them for more pleasing printed output.

Internet Printing

- *Distribute and Print:* Use your E-mail enabled print driver to distribute documents to several printers at once with a single mouse click. By simply entering the E-mail address of each destination printer and selecting "print' from your Window's application, a job can be sent to a printer anywhere.
- *Remote Administration:* Use the NC60 embedded Web server to perform any printer administration function. You can display status and diagnostics as well as configure the printer from any location.
- *Remote Monitoring:* Use any web browser to monitor and maintain your printer. You can query your consumable status or even configure the printer to automatically send an E-mail message when it needs attention.

If you have any questions please call us Toll-Free:
USA: 1-800-TeamXRX Canada: 1-800-93XEROX
or
Visit our Web site at: http://xerox.networkprinters.com

Practical Tips for the: Xerox *DocuPrint NC60* Color Laser Printer

Shared Printing

- ***Hold Job:*** Hold Job is a "wait-for-me" feature that delays printing, for a specified period of time, so you can load special media, or be present when printing starts. Press the machine's enter button when the LED is flashing to print your job. The amount of delay is set through the machine control panel or client services tools.
- ***Secure Print*:** Your NC60 printer allows you to defer printing of a job until a matching Password is entered from the Control Panel. The user assigns the Password in the Password edit box after selecting Secure Print. This feature requires the Hard Disk option be installed on your printer.
- ***Proof Print:*** When printing multiple sets, *Proof Printing* saves steps. You send your document once, and the printer processes and prints the **first** set. After you review the document, simply release the rest at the printer. This feature requires the Hard Disk option be installed on your printer.

Recommended Media

Your DocuPrint NC60 will produce brilliant color images on a wide variety of print media. Carefully choosing media for your printer is important in achieving the best images and ensuring trouble-free operation.

Paper:
Use standard office plain paper with weights from 16-24 lbs. Best results will be achieved with "laser" class papers such as Xerox Color Xpressions Paper. Avoid rough (graphic arts) papers, card-stock, heavy papers, vellum, linen papers, T-shirt transfer material, pre-printed forms, and letterhead with raised printing. Envelopes and labels designed for laser printers must be run through the manual feeder and will print in black and whit only

Transparencies:
The NC60 automatically detects transparencies and adjusts the printer to optimize print quality. To save money and produce the brightest transparencies, we recommend using clear (laser printer or copier) transparencies that **do not** have a removable stripe or paper backing. Best results will be obtained by using the low cost transparencies specifically designed for the DocuPrint NC60: Xerox 3R6256. We do not recommend transparencies designed for other types of color copiers or color printers, laser or inkjet. For reliable feeding, load a **maximum of 75** transparencies in the paper tray. When printing transparencies continuously, print 5-10 sheets of **blank** pages after each set of 75 transparencies. This will improve overall reliability and print quality when printing large volumes of transparencies.

- ***Separator Sheets:*** This convenient feature inserts a paper separator between each transparency sheet. This feature requires the Second tray feeder option be installed on your printer.

Moving Your Printer

All color laser printers require extra care and preparation before and while moving them. It is very important to remove the fuser first, and hand carry it to the new location to prevent spilling oil in the machine. ***Do not tilt the fuser.*** If the fuser has spilled oil, do not reinstall as damage to the machine could occur. Once the fuser is removed, two people should move the printer, also taking *care not to tilt the printer.* If you must ship your printer, and it will possibly NOT be kept level, more preparation is needed. Complete moving instructions can be obtained from the CD-ROM that accompanies your printer, under Technical Information Guide (TIG), Chapter 12. Alternately, contact your reseller, or the Xerox web site.

Monthly Print Volume

The DocuPrint NC60 is carefully designed to run reliably at typical office print volumes of 3,000 color prints per month. If you regularly produce considerably higher print volumes, you should consider additional printer(s) to handle peak workloads quickly, and maximize uptime.

Two-sided (Duplex) Printing

The DocuPrint NC60 is not designed for duplex printing. Using paper that has already been printed on one side may damage the printer.

Driver Configuration

Be sure to set the device options in the driver to correctly reflect your printer configuration.

Connectivity

The NC60 comes standard with 10MB Ethernet on board with the option to upgrade to 10/100MB Ethernet or TokenRing via the optional NIC slot. If you experience connectivity problems when connecting a 3rd party connectivity box to the printer parallel port, you may have to set the printer parallel port bi-directional setting to off.

If you have any questions please call us Toll-Free:
USA: 1-800-TeamXRX Canada: 1-800-93XEROX
or
Visit our Web site at: http://xerox.networkprinters.com

DENSITY AND COLOR BALANCE TEST PATTERN.

(C55/C55mp Entry)

Press	Display Reads
On Line	< OFF LINE >
Menu	< CONTROL >
Next - until	< SETUP >
Enter	< COLOR ADJUST >
Enter	< PROCESSING >

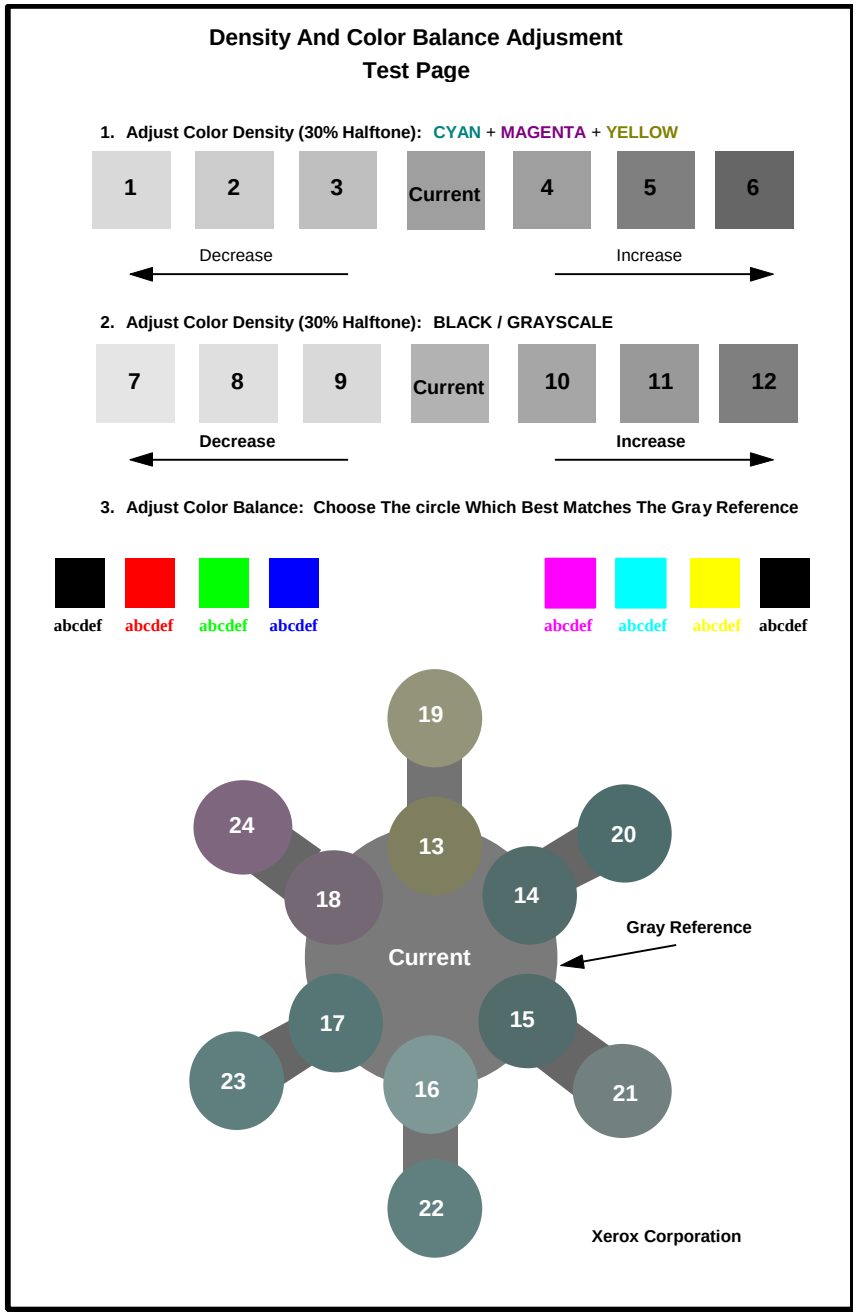
NC60 [Entry]

Press	Display Reads
Menu Up - until	Menus Color Adjust
Item Down	Processing . . .

This test pattern is used to set the density and to determine if the printer color is balanced properly. It will allow the customer to judge the color balance, and correct the color balance if necessary. Refer to ADJ. 3.1 Density and Color Balance Procedure in Section 4 for additional information.

*NOTE: It is often difficult to see changes in the color balance. You can check the change by running a printer diagnostic sheet before and after the adjustment. Changes will show in the values under **Density Rate Setpoints and Developer Bias**. The NC60 includes these values on the Density and Color Balance Test Pattern.*

On the NC60 only, you must disconnect all input ports on the ESS.



BOOT SEQUENCE: (C55/C55MP)

The following is the boot sequence for the C55/C55mp printers. The ESS also boots while the printer is booting.

IOT BOOT SEQUENCE

1. ROM Checksum.
2. RAM Checksum.
3. NVM Checksum.
4. All Sensors Checked for Paper.
5. Main Motor On.
6. Process Control Setup Begins.
7. Message Display indicates moving * during ESS Boot sequence.
8. When ESS Boot is complete Message display indicates INITIALIZING and all message display LEDs come on.

ESS BOOT SEQUENCE

1. ROM Checksum.
2. NVM Test.
3. Dram Test.
4. TIFF PWB Test.
5. Local Serial (SLIC) PWB Tested.
6. Font SIMM Test.
7. Network Interface Card Tested.
8. Floppy Test.
9. Hard Disk Test.
10. ESS PWB Communicates with PCU PWB, Message display indicates INITIALIZING and all message display LEDs come on.

IOT COPY QUALITY SETUP

1. Main Motor and Fuser Motor on.
2. Cleaner Solenoid energizes and Cleaner Assembly moves against Transfer Drum.
3. Black Developer Clutch energizes and Black toner concentration is checked. If necessary, the Black Toner Motor switches on and "tones up" the black developer.
4. Cyan Developer Clutch energizes and Cyan toner concentration is checked. If necessary, the Color Toner Motor and Cyan Toner Solenoid switch on and "tone up" the cyan developer.
5. Step 4 is repeated for Magenta and Yellow.
6. Main Motor pauses with white patch under Gamma Sensor and the Gamma Sensor is calibrated.
7. Three Black patches printed on top of white patch, 50 volts apart. Gamma sensor measures patches and sets Black developer bias.
8. Three Cyan patches printed 50 volts apart. Gamma sensor measures patches and sets Cyan developer bias.
9. Step 8 is repeated for Magenta and Yellow.
10. Repeat Steps 3, 4 and 5 to recheck toner concentration.

C55 ESS LED'S

CR1
CR2
CR3
CR4
CR5
POWER

CR5 lites when there is +5 VDC available on the ESS.

CR3 lites when the ESS passes Self Test.

All LED's lite when the ESS fails Self Test.

BOOT SEQUENCE: [NC60]

The following is the boot sequence for the NC60 printer. The ESS also boots while the printer is booting.

ESS BOOT SEQUENCE

1. Power and Fail LEDs on.
2. Fail LED off.
3. Boot 1 sequence begins.
   - Initialize i960 CPU.
   - Base RAM check (32 MB).
   - ROM Check.
   - ASIC & DMA Controller Check.
   - Parallel and Serial Port Check.
   - Message Display indicates:
   - **POWER ON VERSION n.nn**
   - Message display off.
   - All LED's on, all pixels on.
4. Boot 2 sequence begins.
   * displayed as tests are conducted.
   - Hard Disk Test.
   - SIMM 1 through SIMM 4 test.
   - XIE RAM test.
   - Optional NIC card slot test.
   - 10MB Ethernet test. (Internal NIC).
   - Option Flash ROM test.
   - Floppy Test.
   - DP-TEK test.
   - Memory test.
   - ESS Ready.

IOT BOOT SEQUENCE

1. ROM Checksum.
2. RAM Checksum.
3. NVM Checksum.
4. All Sensors Checked for Paper.
5. Main Motor On.
6. Process Control Setup Begins.
7. * Circles CCW during ESS Boot 1.
8. ESS Ready.

NC60 ESS LED'S

POWER

FAIL

The Power LED lites when there is +5 VDC available on the ESS.

The Fail LED lites when the ESS fails Self Test.

IOT COPY QUALITY SETUP

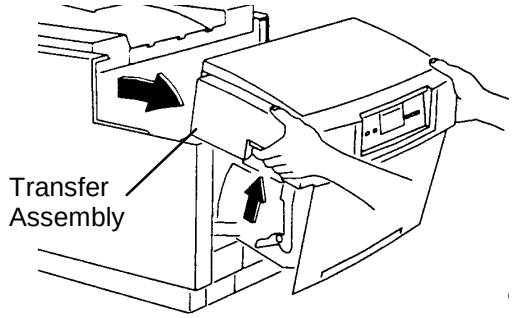
1. Main Motor and Fuser Motor on.
2. Cleaner Solenoid energizes and Cleaner Assembly moves against Transfer Drum.
3. Black Developer Clutch energizes and Black toner concentration is checked. If necessary, the Black Toner Motor switches on and "tones up" the black developer.
4. Cyan Developer Clutch energizes and Cyan toner concentration is checked. If necessary, the Color Toner Motor and Cyan Toner Solenoid switch on and "tone up" the cyan developer.
5. Step 4 is repeated for Magenta and Yellow.
6. Main Motor pauses with white patch under Gamma Sensor and the Gamma Sensor is calibrated.
7. Three Black patches printed on top of white patch, 50 volts apart. Gamma sensor measures patches and sets Black developer bias.
8. Three Cyan patches printed 50 volts apart. Gamma sensor measures patches and sets Cyan developer bias.
9. Step 8 is repeated for Magenta and Yellow.
10. Repeat Steps 3, 4 and 5 to recheck toner concentration.

GP 1 PRINT DRUM REMOVAL

WARNING

Switch the Main Power off and disconnect the Power Cord.

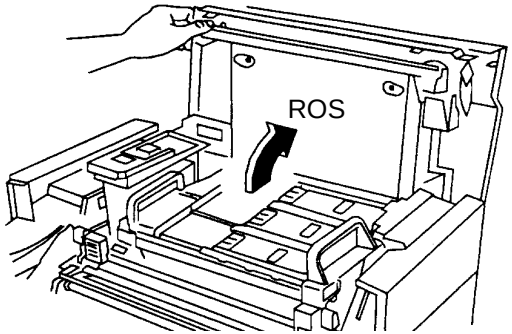
1. (Figure 1): Grasp the two latches and open the Transfer Assembly.



C7

Figure 1. Opening the Transfer Assembly

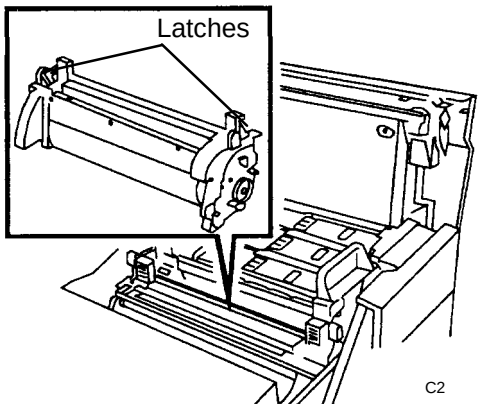
2. (Figure 2): Release the latch and open the ROS.



C8

Figure 2. Opening the ROS

3. (Figure 3): Release the two green latches and slide the Print Drum module out of the printer.



C2

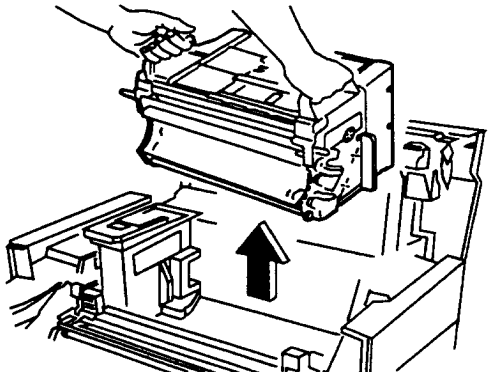
Figure 3. Print Drum Removal

GP 2 COLOR DEVELOPER REMOVAL

WARNING

Switch the Main Power off and disconnect the Power Cord.

1. Remove the Print Drum (GP 1).
2. (Figure 1): Grasp the two handles, lift and remove the Color Developer module.



C10

Figure 1. Color Developer Removal

GP 3 BLACK DEVELOPER REMOVAL

WARNING

Switch the Main Power off and disconnect the Power Cord.

1. Remove the Print Drum Module(GP 1).
2. Remove the Color Developer Module GP 2).
3. (Figure 1): Release the latch and swing the Black Toner Hopper to the right.

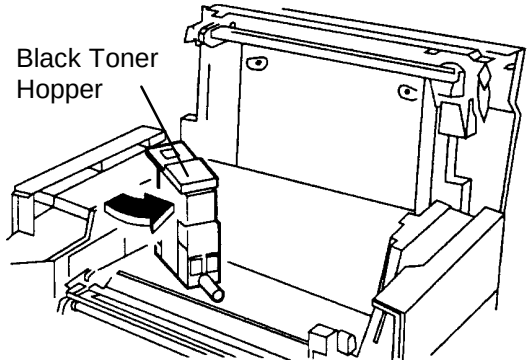


Figure 1. Moving the Black Toner Hopper

4. (Figure 2): Lift and remove the Black Developer Module.

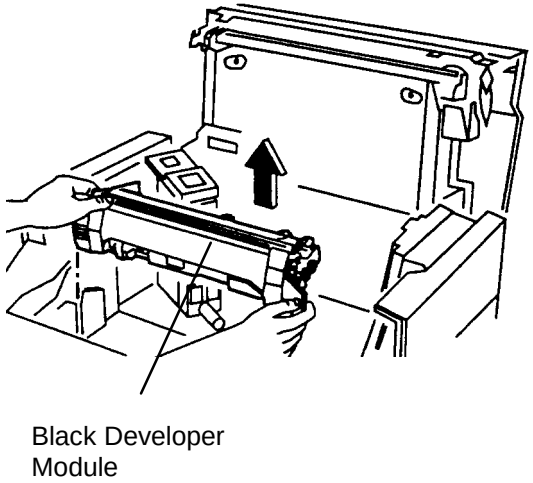


Figure 2. Removing the Black Developer Module

GP 4 TONER COLLECTOR REMOVAL

WARNING

Switch the Main Power off and disconnect the Power Cord.

1. (Figure 1): Grasp the two latches and open the Transfer Assembly.

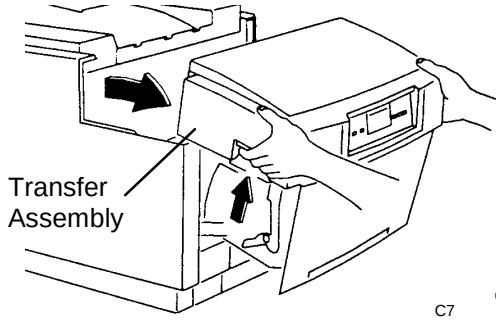


Figure 1. Opening the Transfer Assembly

2. (Figure 2): Lift and remove the Toner Collector.

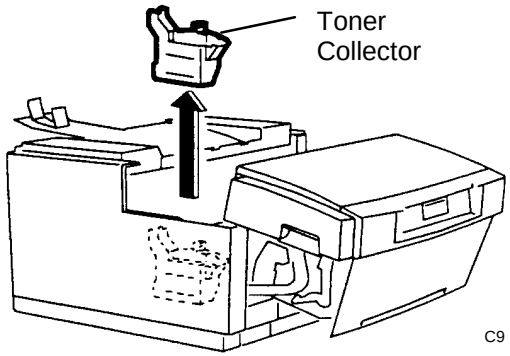


Figure 2. Removing the Toner Collector

GP 5 FUSER REMOVAL

WARNING

Switch the Main Power off and disconnect the Power Cord.

1. (Figure 1): Grasp the two latches and open the Transfer Assembly.

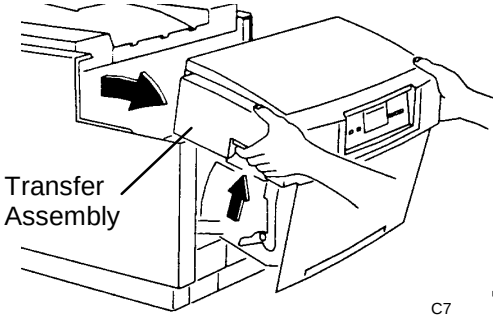


Figure 1. Opening the Transfer Assembly

2. (Figure 2): Release the Latch and open the Fuser Cover.

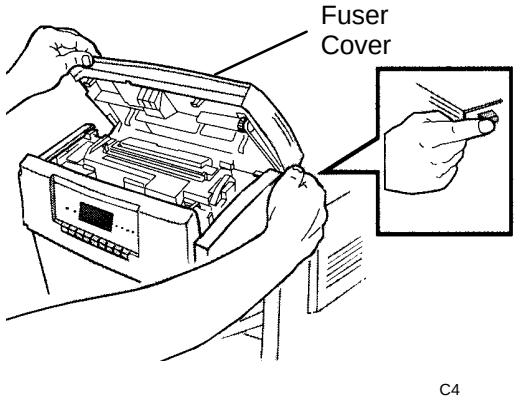


Figure 2. Opening the Fuser Cover

3. (Figure 3): Release the Latch Lever on the right side of the Fuser.
4. Lift and remove the Fuser Module.

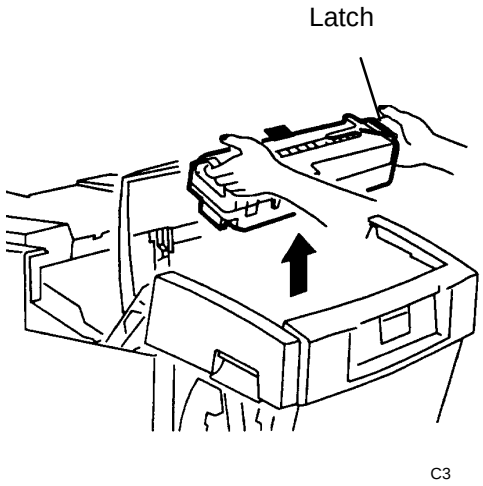


Figure 3. Removing the Fuser Module

NOTE: Be careful not to tilt the fuser.

GP 3.1 FUSER SPEED (C55/C55mp) (V66 FIRMWARE ONLY)

C55/C55mp Only

PURPOSE

NOTE: This adjustment only applies to IOT Firmware version 66.

The purpose of this adjustment is to set the speed of the Fuser to prevent the trail edge of the last color (Yellow or Black) from being misregistered or smeared.

ADJUSTMENT

1. Enter Normal Diagnostics (Press **Menu** & **Enter**, Power ON),
2. If the message display indicates,

PCU DIAG MODE 66

   continue with the adjustment. If the display indicates any version other than 66, exit from diagnostics, do not perform the adjustment.
3. With PCU DIAG MODE 66 displayed, press **On Line** then **Enter**. Release both keys at the same time.
4. The message display will indicate,

PCU DIAG SPECIAL

5. With PCU DIAG SPECIAL displayed, press **Medial Server** then **Previous**. Release both keys at the same time.
6. The message display will indicate,

DIAG BACK GROUND

7. Press **Menu** to scroll to:

CONTROL K DVBIAS

8. Use **Next**/**Previous** to scroll to:

CONTROL FS MOTOR

9. Press **Enter**. The display will indicate:

FS MOTOR 3729

10. Use **Next**/**Previous** to change the Fuser Motor speed to 3729.
11. To store the change actuate and hold the Bypass switch, (insert a piece of paper in the bypass slot) then press the **Form Feed** key. The ON Line LED will switch on and then off when the change is stored.
12. Exit from diagnostics by switching the printer off. Wait 10 seconds, then switch the printer on.

GP 3.2 CONTROL PATCH MD

PURPOSE

NOTE: This adjustment only applies to IOT Firmware version 75 and above.

C55/C55mp ESS Firmware version 3.5.2 and up and NC60 firmware includes this adjustment in the Service menu.

Refer to GP 3.2A for firmware version 75.

Refer to GP 3.2B for the (C55/C55mp) ESS version 3.5.2 and above adjustment.

Refer to GP 3.2C for the [NC60] adjustment.

The purpose of this adjustment is to switch the density patch toner check on and off. When this feature is on, the density is checked using development patches before a low toner condition is declared.

This setting should normally be left OFF if can cause EA Fault codes.

PROCEDURE

3.2A (C55/C55mp) IOT FIRMWARE VERSION 75

1. Enter Normal Diagnostics (Press **Menu** & **Enter**, Power ON),
2. If the message display indicates,

PCU DIAG MODE 75

   or higher, continue with the adjustment. If the display indicates any version lower than 75, exit from diagnostics, do not perform the adjustment.
3. With PCU DIAG MODE 75 displayed, press **On Line** then **Enter**. Release both keys at the same time.
4. The message display will indicate,

PCU DIAG SPECIAL

5. With PCU DIAG SPECIAL displayed, press **Medial Server** then **Previous**. Release both keys at the same time.
6. The message display will indicate,

DIAG BACK GROUND

7. Press **Menu** to scroll to:

CONTROL K DVBIAS

8. Use **Next**/**Previous** to scroll to:

CONTROL PATCH MD

9. Press **Enter**. The display will indicate:

OFF/ON

10. Use **Next**/**Previous** to change the setting to ON or OFF.
11. To store the change actuate and hold the Bypass switch, (insert a piece of paper in the bypass slot) then press the **Form Feed** key. The ON Line LED will switch on and then off when the change is stored.
12. Exit from diagnostics by switching the printer off. Wait 10 seconds, then switch the printer on.

GP 3.2B CONTROL PATCH (C55/C55mp) ADJUSTMENT USING SERVICE MENU (ESS FIRMWARE V3.5.2 AND UP)

1. Press **On Line** to enter the Off Line mode, then press **Menu**.
2. Press **Next** until SERVICE is displayed, then press **Enter**.
3. Press **Next** until ADJUSTMENTS is displayed, then press **Enter**.
4. Press **Next** until PATCH CONTROL is displayed, then press **Enter**.
5. Switch the PATCH CONTROL ON or OFF.

GP 3.2C CONTROL PATCH [NC60] ADJUSTMENT USING SERVICE MENU

1. Press **Menu Up** until Service is displayed.
2. Press **Item Down** until patch Control is displayed.
3. Press **Value Up** until the Patch control is ON or OFF, then press **Enter**.

GP 3.3 TRANSPARENCY MODE

PURPOSE

The purpose of this procedure is to optimize the Transfer Bias for transparencies. This procedure has been designed to address the following problems:

- Mistacking on the Transfer Drum (E6/E4 Jams).
- Transfer Breakdown (very high frequency, small diameter deletions.
- Fuser oil fingers/offset (2 - 5 mm wide x 5 - 50 mm long brighter areas on the transparency that resemble human fingers when projected.

Refer to GP 3.3A for the (C55/C55mp) Adjustment.

Refer to GP 3.3B for the [NC60] Adjustment.

GP 3.3A TRANSPARENCY MODE (C55/C55mp)

ADJUSTMENT

1. Press **On Line** to enter the Off Line mode, then press **Menu**.
2. Press **Next** until MEDIA is displayed, then press **Enter**.
3. Press **Next** until TRANSPARENCY is displayed, then press **Enter**.
4. Press **Next** until TRANSPARENCY MODE is displayed, then press **Enter**.
5. Six choices are available, they are:

Mode	Criteria
DEFAULT	This is the best setting for Xerox
NONE	This setting is used if you have configured the IOT using Hidden diagnostics.
1	This setting is best for minimizing E4/E6 Jams with maximum transparency brightness.
2	This setting is best for minimizing transfer breakdown with maximum transparency brightness.
3	This setting is best for minimizing E4/E6 Jams with minimum oil finger/offsetting defects.
4	This setting is best for minimizing transfer breakdown with minimum oil finger/offsetting defects.

6. Select the choice which best represents your situation and press **Enter**.

GP 3.3B TRANSPARENCY MODE [NC60]

PURPOSE

The purpose of this procedure is to optimize the Transfer Bias for transparencies. This procedure has been designed to address the following problems:

- Mistacking on the Transfer Drum (E6/E4 Jams).
- Transfer Breakdown (very high frequency, small diameter deletions.
- Fuser oil fingers/offset (2 - 5 mm wide x 5 - 50 mm long brighter areas on the transparency that resemble human fingers when projected.

ADJUSTMENT

1. Press **Menu Up** until Service is displayed.
2. Press **Item Down** until OHP Mode (Transparency) is displayed.
3. Press **Value Up** to display the current setting.
4. Six choices are available, they are:

Mode	Criteria
DEFAULT	This is the best setting for Xerox
NONE	This setting is used if you have configured the IOT using Hidden diagnostics.
1	This setting is best for minimizing E4/E6 Jams with maximum transparency brightness.
2	This setting is best for minimizing transfer breakdown with maximum transparency brightness.
3	This setting is best for minimizing E4/E6 Jams with minimum oil finger/offsetting defects.
4	This setting is best for minimizing transfer breakdown with minimum oil finger/offsetting defects.

5. Select the choice which best represents your situation and press **Enter**.

GP 3.4 DRUM CLEANING

PURPOSE

The purpose of this procedure is force the transfer drum to run cleaning cycles. This helps prevent deletions in high volume applications.

Refer to GP 3.4A for the (C55/C55mp).

Refer to GP 3.4B for the [NC60].

GP 3.4A DRUM CLEANING (C55/C55mp)

ADJUSTMENT

1. Press **On Line** to enter the Off Line mode, then press **Menu**.
2. Press **Next** until SERVICE is displayed, then press **Enter**.
3. Press **Next** until ADJUSTMENTS is displayed, then press **Enter**.
4. Press **Next** until CLEANING CYCLES is displayed, then press **Enter**.
5. The following choices are available
   - Never
   - 10 through 100
6. For high volume customers the recommended setting is 30 (transfer drum is cleaned every 30 Images)

GP 3.4A DRUM CLEANING [NC60]

ADJUSTMENT

1. Press **Menu Up** until Service is displayed.
2. Press **Item Down** until Cleaning Cycle is displayed.
3. Press **Value Up** to display the current setting.
4. The following choices are available
   - Never
   - 10 through 100
5. For high volume customers the recommended setting is 30 (transfer drum is cleaned every 30 Images)
6. Select the choice which best represents your situation and press **Enter**.

GP 3.5 RESET [NC60]

PURPOSE

NOTE: Before performing a reset, print a Configuration Sheet. ***Menu Up*** *to Service,* ***Item Down*** *to Config. Sheet, then press* ***Enter****.*

The purpose of this procedure is enable the Reset Menu. When this menu is available, you can perform the following.

- Reset the ESS to Factory Defaults.
- Reset the Network to Defaults.
- Reset the CRUs.
- Restart the Printer.
- Delete All pending jobs.
- Initialize the Hard Disk.
- Format the Hard Disk.

PROCEDURE

1. Enable the Reset Menu.
   a. Switch the Power Off.
   b. Press and hold **On Line** and **Enter**, then switch the power on**.**
   c. Continue to hold **On Line** and **Enter** until POWER ON VERSION X.XX is displayed, then release the keys.
2. Reset the Printer.
   a. Press **Menu Up** until the item to be reset is displayed.
   b. Press **Value Up** until Yes is displayed.
   c. Press **Form Feed**.
3. Have the customer use the Configuration Sheet to reset any lost values.

GP 9.1 CHARGE SCOROTRON CURRENT CHECK

PURPOSE

The purpose of this check is to ensure that the Charge Scorotron current is within specifications.

WARNING

Switch the Main Power off.

PROCEDURE

1. (Figure 1): Disconnect the charge wire (center, large red) from the right side of the printer.
2. Set up the multimeter to read –700 µA.
3. (Figure 1): Connect the meter between the wire removed in step 1 and the charge terminal on the right frame.
4. Enter Normal Diagnostics (**Menu [3]** + **Enter [7]**, Power ON).
5. Use **Menu [3]** to scroll to VOL TEST MAIN CH.

Caution
Check to ensure that the red meter lead is not contacting the frame.

6. Press **Form Feed [1]** to switch on the High Voltage Power Supply.
7. The current should be –700 +50 –20 µA.
8. Press **Media Server [2]** to switch the Power Supply off.

NOTE: Do not keep the power supply on any longer than necessary. The constant charge can fatigue the print drum.

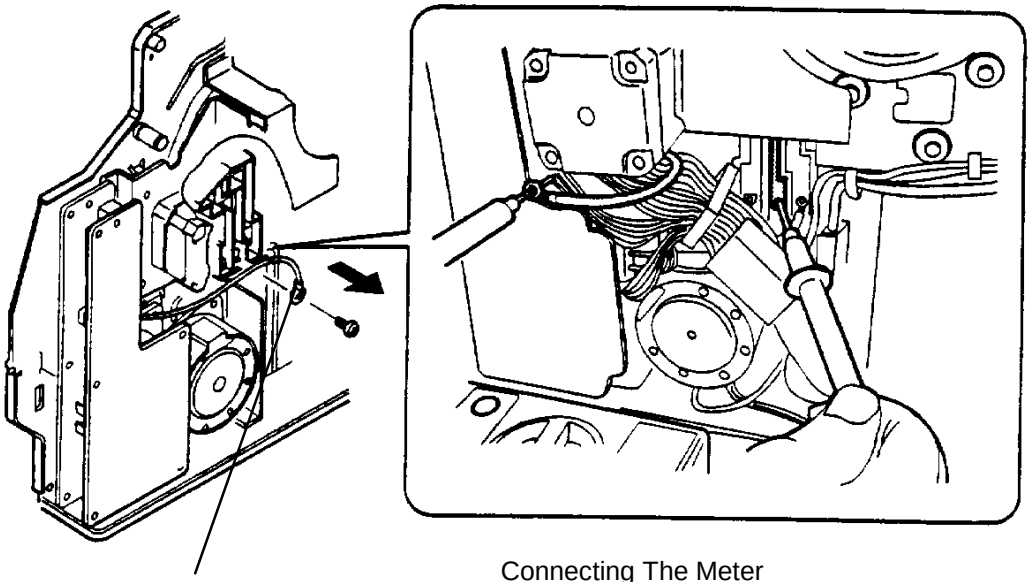


Figure 1. Checking the Charge Current

GP 9.2 CHARGE GRID VOLTAGE CHECK

PURPOSE

The purpose of this check is to ensure that the Grid Voltage is within specifications.

Note: During normal operation the Grid voltage will be one of three voltages –500, –600, –700.

PROCEDURE

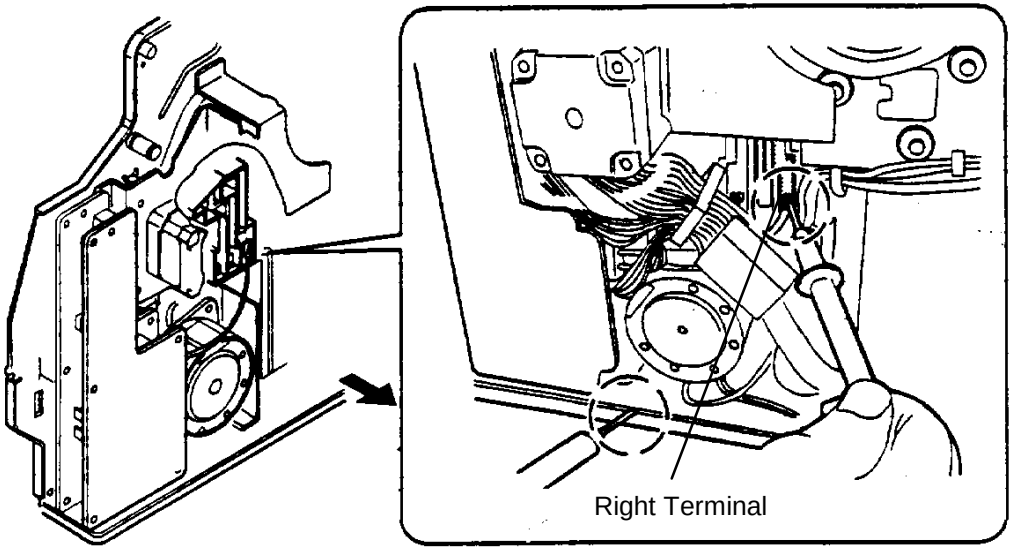
1. Set up the multimeter to read –700 VDC.
2. (Figure 1): Connect the meter to the Grid terminal (blue wire, right).
3. Enter Normal Diagnostics (**Menu [3]** + **Enter [7]**, Power ON).
4. Use **Menu [3]** to scroll to VOL TEST MAIN CH.

Caution

Check to ensure that the red meter lead is not contacting the frame.

5. Press **Form Feed [1]** to switch on the High Voltage Power Supply.
6. The voltage should be –557 ±7 V.
7. Press **Media Server [2]** to switch the Power Supply off.

NOTE: Do not keep the power supply on any longer than necessary. The constant charge can fatigue the print drum.



Connecting The Meter

K4

Figure 1. Checking the Grid Voltage

GP 9.3 TRANSFER VOLTAGE CHECK

PURPOSE

The purpose of this check is to ensure that the Transfer Voltage is within specifications.

NOTE: You must have a High Voltage Probe to perform this procedure

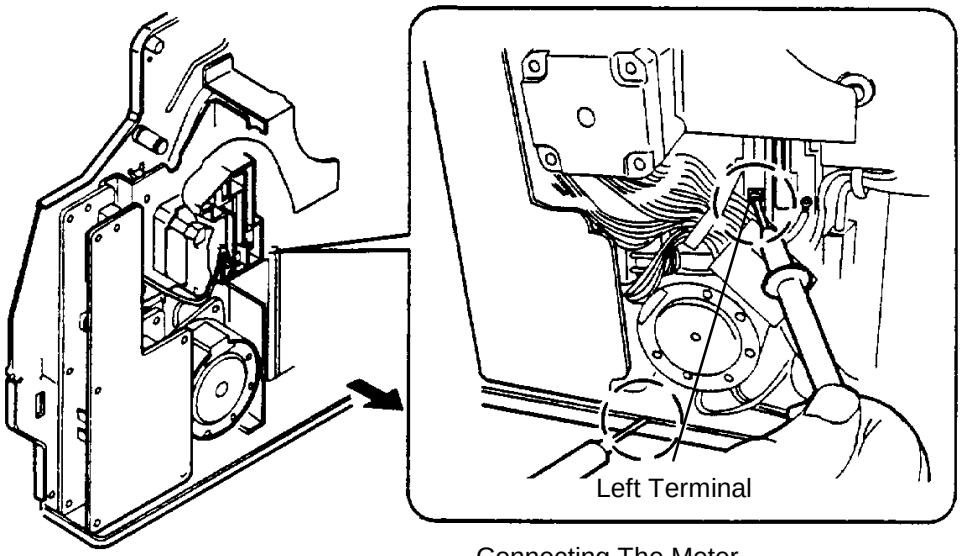
Note: During normal operation the Transfer voltage will be one of two voltages (1500 volts for plain paper, and 2800 for transparencies.

1. Set up the multimeter to read 1500 VDC.
2. (Figure 1): Connect the High Voltage Probe to the Transfer terminal (black wire, left).
3. Enter Normal Diagnostics (**Menu [3]** + **Enter [7]**, Power ON).
4. Use **Menu [3]** to scroll to VOL TEST MAIN CH.
5. Use **Next [6]**/**Previous [5]** to scroll to VOL TEST TC BIAS.

Caution
Check to ensure that the red meter lead is not contacting the frame.

6. Press **Form Feed [1]** to switch on the High Voltage Power Supply Transfer Current.
7. The voltage should be 1200 to 1600 V.
8. Press **Media Server [2]** to switch the Power Supply off.

NOTE: Do not keep the power supply on any longer than necessary.



Connecting The Meter

K7

Figure 1. Checking the Transfer Voltage

GP 9.4 DEVELOPER BIAS VOLTAGE CHECK

PURPOSE

The purpose of this check is to ensure that the Developer Bias Voltage is within specifications.

Note: During normal operation the Developer Bias voltage is determined by the Process Control Setup. It will be between –450 and -650 volts when the color is being developed.

1. Set up the multimeter to read 500 VDC.
2. Enter Normal Diagnostics (**Menu [3]** + **Enter [7]**, Power ON).
3. Use **Menu [3]** to scroll to VOL TEST MAIN CH.
4. Use **Next [6]**/**Previous [5]** to scroll to VOL TEST DV BIAS.
5. Press **Form Feed [1]** to switch on the High Voltage Power Supply Developer Bias.
6. (Figure 1): Connect the Meter to the Bias voltage to be checked.
7. The voltage should be – 400 ±50 V.
8. Press **Media Server [2]** to switch the Power Supply off.

NOTE: Do not keep the power supply on any longer than necessary.

NOTE: During print expect the voltage to be from – 250 to – 500 volts

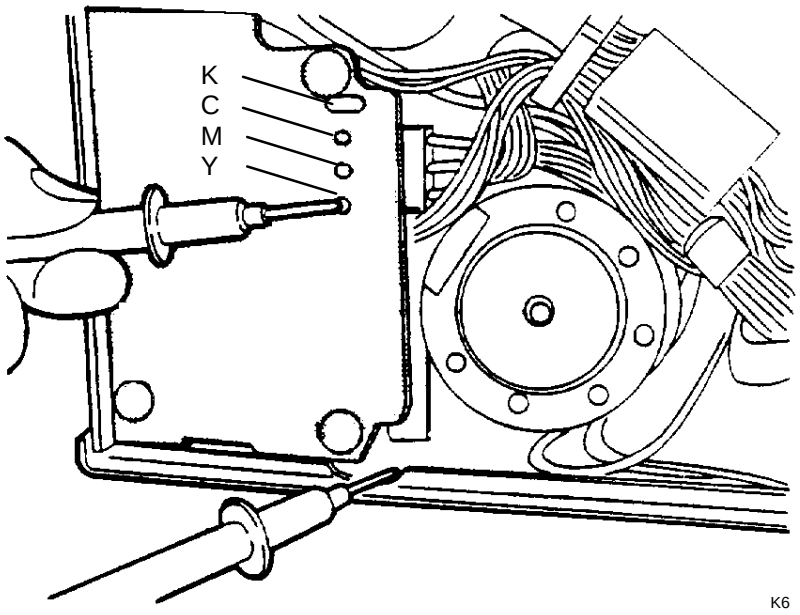


Figure 1. Checking the Developer Bias

NOTES:

GP 15.1 INSTALL

PROCEDURE

1. General Notes:

DO NOT connect the power cord to the printer until you are instructed to do so.

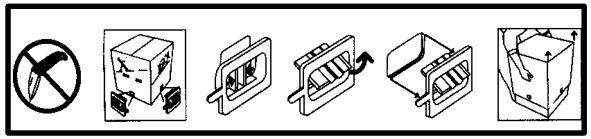
The Printer weighs approximately 89 pounds (40 Kg) without consumables. To avoid accidents, two people should lift the printer into place before installing.

If you need assistance with your installation, call your Dealer or contact:

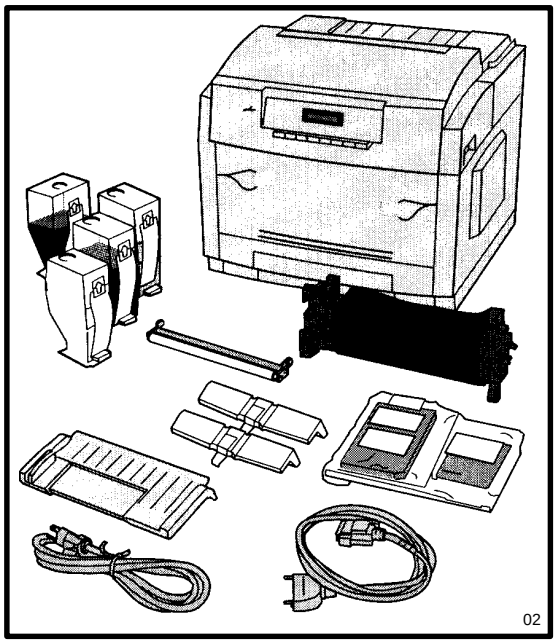
- Team XRX (US) 1-800-TeamXRX (1-800-832-6979
- Xerox National Call Center (Canada) 1-800-939-3769
- For all other countries please call your local Xerox Support.

2. Prepare for installation:

   a. Be sure to remove the outer box by removing the four clips as shown.



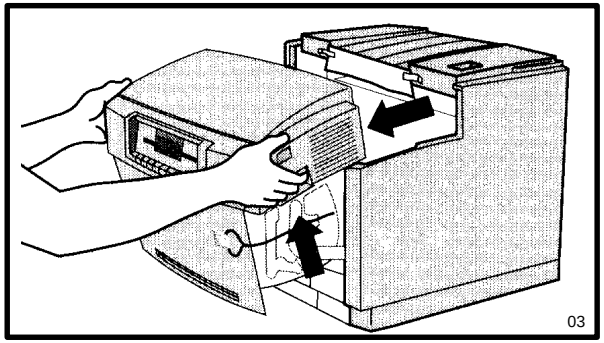
   b. Remove the packaging materials, printer, and consumables from the carton. Make sure that you have all the components shown in the illustration below.



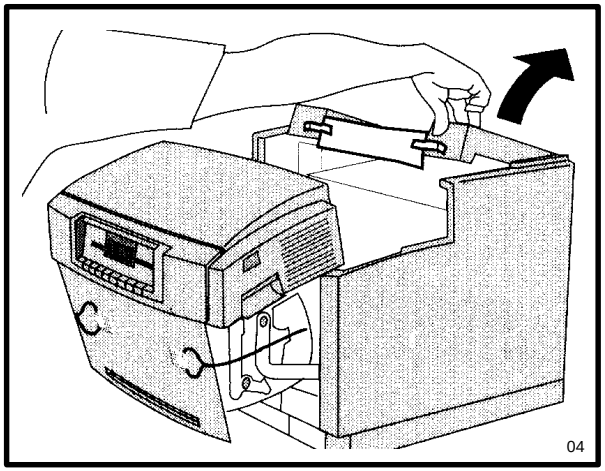
   c. Place the printer where it will be used. **TWO** people should lift the printer.

   d. Remove the tape from the printer exterior.

   e. Release the latches and open the front panel.

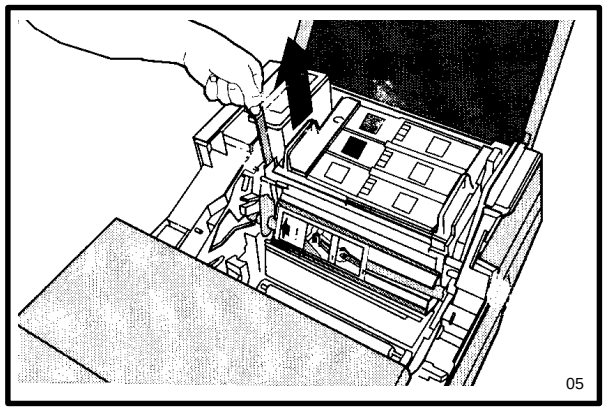


   f. Release the latch and open the rear panel. Remove the foam sheet.



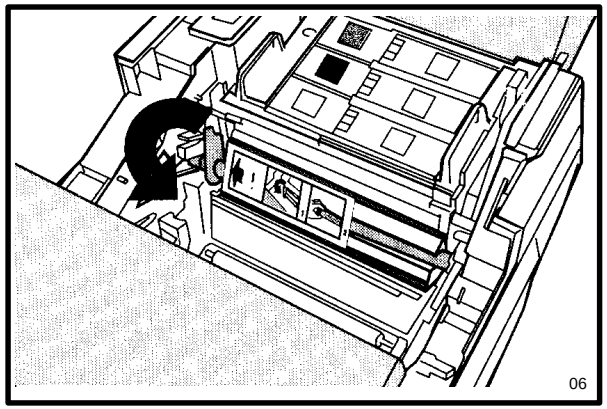
3. Remove interior packaging:

   a. Remove the tape by pulling straight up.

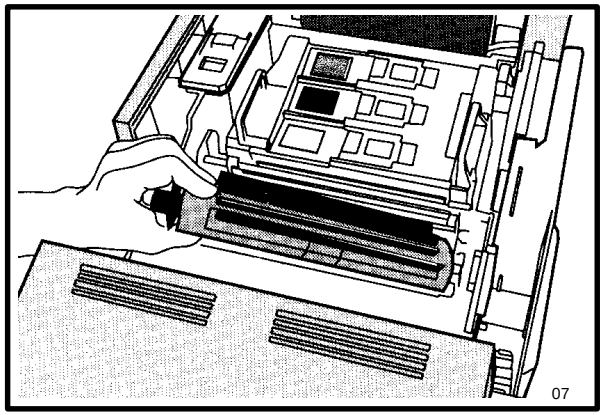


   b. Follow the next three steps completely to remove the developer packing.

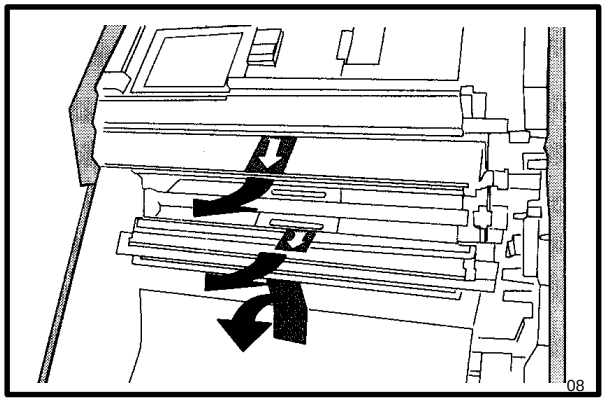
   c. Rotate the lever on the cardboard roller as shown until it releases. DO NOT remove any of the tape holding the roller to the foam



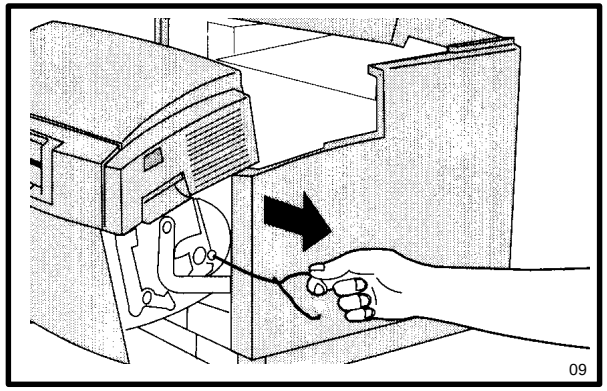
   d. Remove the roller and the foam cylinder, being sure to remove all FIVE seals attached to back of the foam cylinder.



   e. Remove the two plastic strips by pulling them as shown. Remove the foam sheet from the bottom of the printer as shown.

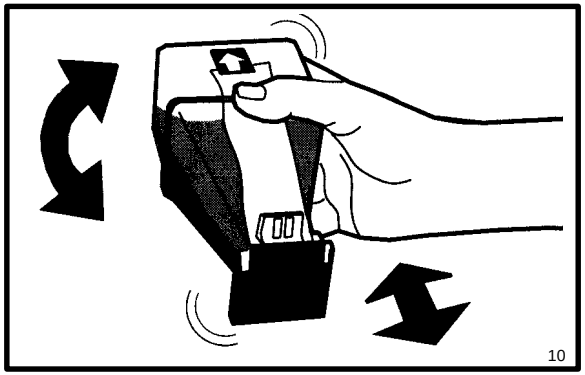


   f. Remove the two clips from the transfer drum by pulling on the strings taped to the front of your printer.

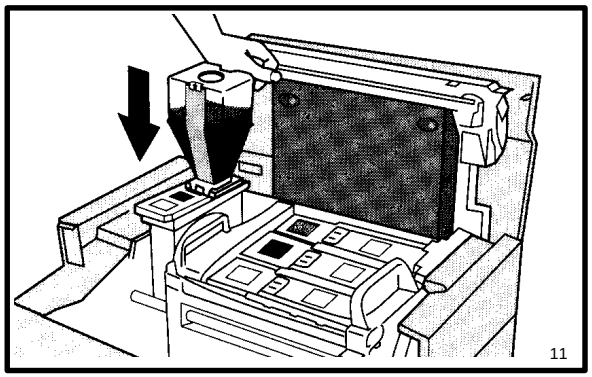


4. Load the Toner:

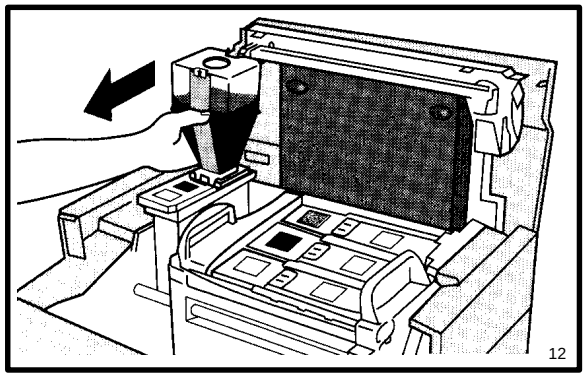
   a. **IMPORTANT!** Shake the black toner bottle vigorously. There is an internal paddle to aid in mixing the toner.



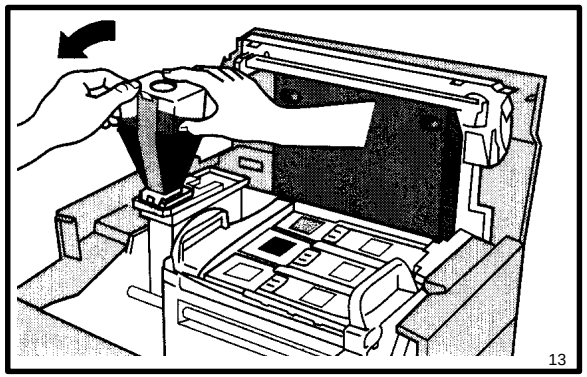
   b. Place the base of the toner bottle on the matching color-coded platform, fitting the hooks into the slots.



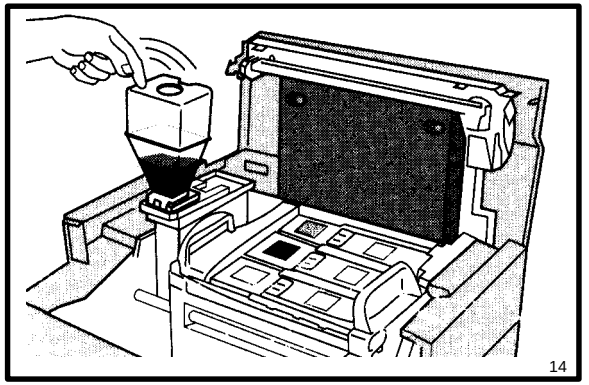
   c. Grasp the base of the toner bottle and pull it to the end of the slide.



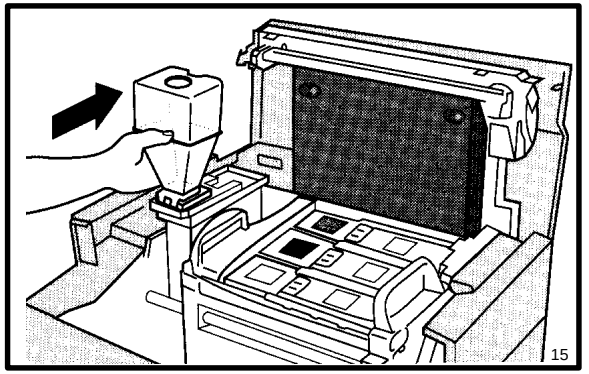
   d. Immediately remove the protective tape.



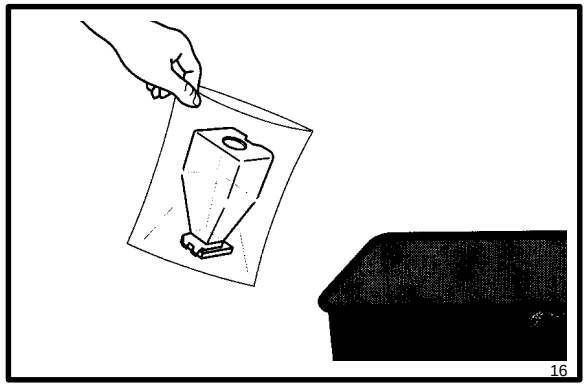
   e. Allow the toner to flow out of the bottle, then tap the bottle gently. **DO NOT SQUEEZE.**



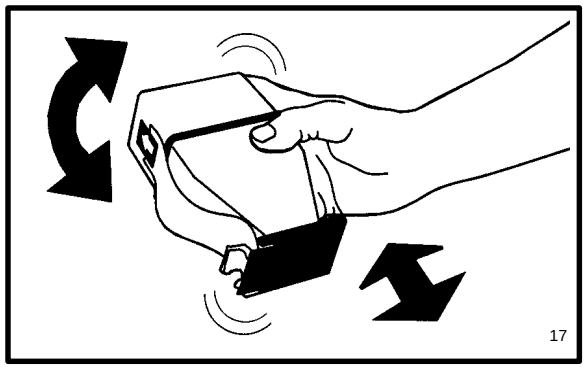
   f. When the bottle is empty, slide it back to the original insertion point and remove it.



g. Place the bottle into a supplied plastic bag, and dispose of it properly.

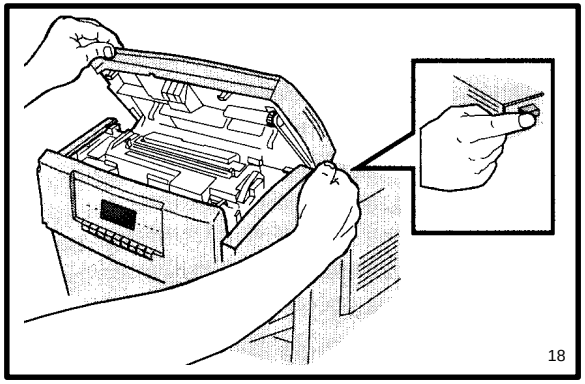


h. Repeat steps a through g for each of the 3 color toner bottles. Remember to shake vigorously and remove the tape as shown as soon the bottle is in place

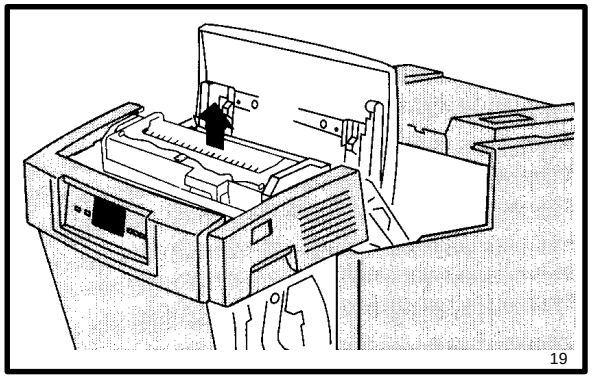


5. Install the Fuser components:

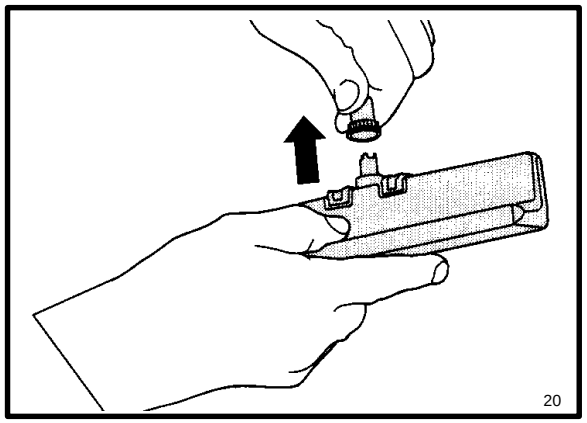
   a. Press the green release button located just behind the right side of the front cover to open the cover. This is where the fuser is located.



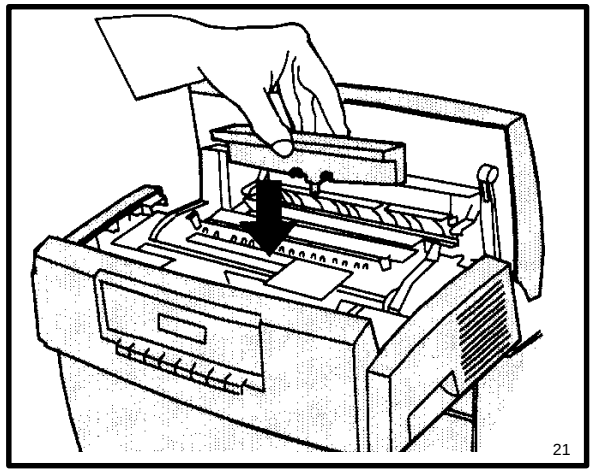
   b. Pull on the gold string to remove the gold plastic pins from the fuser.



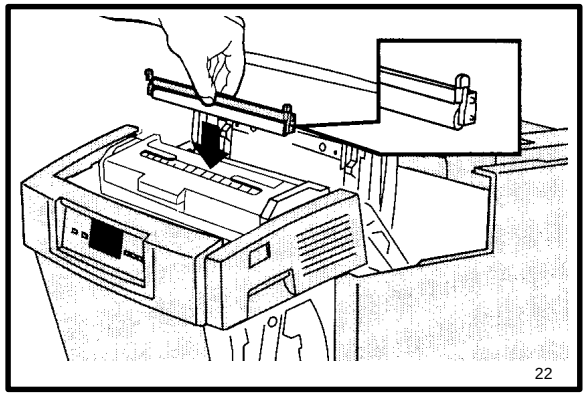
   c. Remove the Oil Bottle from the plastic bag and pull off the cap. Save the second oil bottle for use when the printer warns you that the oil is low.



   d. Insert the oil bottle into the top of the fuser and click into place.



   e. Remove the roller from the plastic bag, insert it into the top of the fuser, align the arrow on the roller to the arrow on the fuser and lock it in place by rotating toward you.

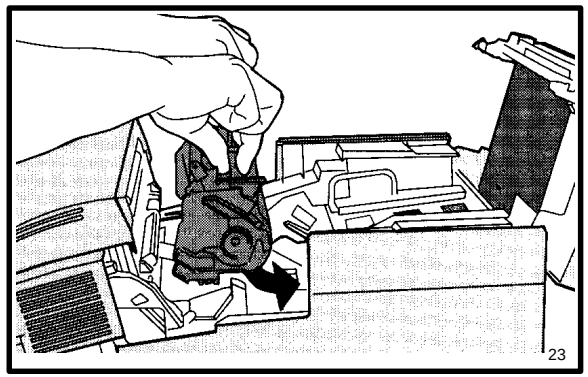


   f. Close the fuser top. If the top does not close easily, check to see if the cleaner roller is installed properly and locked in place.

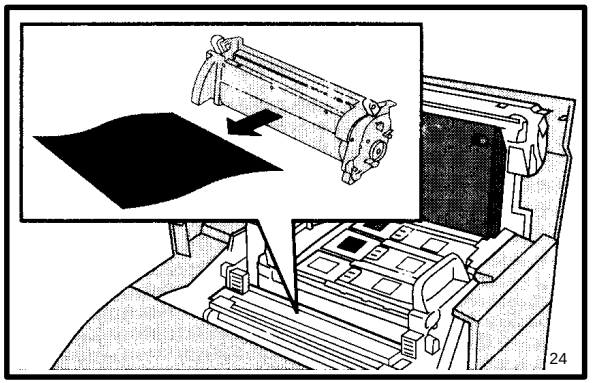
6. Install the Print Drum:

   a. Locate the Print Drum, the item wrapped in a foil bag.

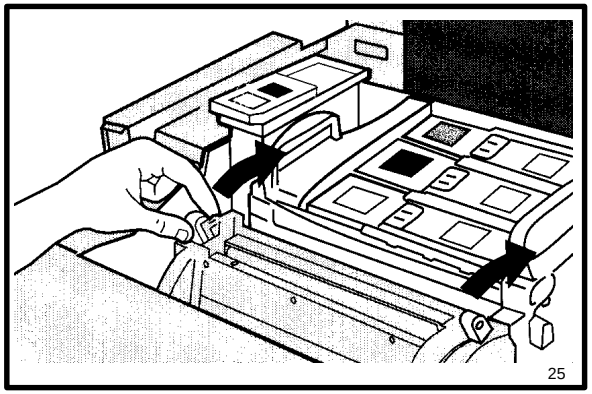
   b. Hold the drum by the gold color handles with the arrow near the handle pointing to the white arrow (#1) on the machine frame. Lower the Print Drum and slide forward to align with arrow #3. **DO NOT LOCK IN PLACE.**



   c. Be sure that you have **NOT LOCKED** the Print Drum or permanent damage will occur. Pull the tape marked with an arrow to remove the paper covering.



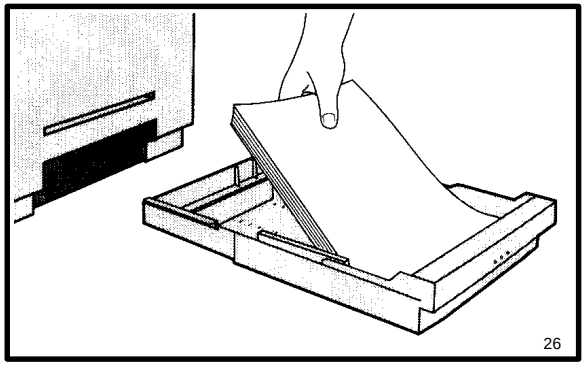
   d. Push both latches forward to lock the drum in place.



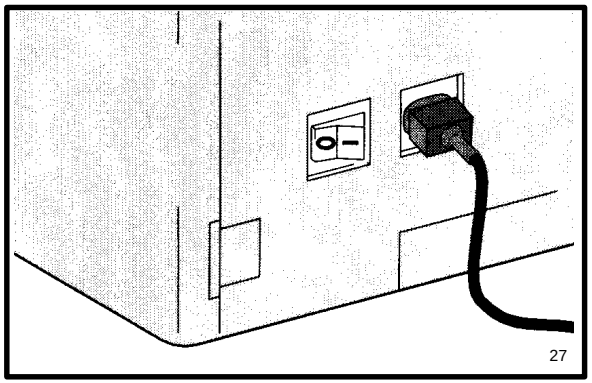
7. Print the test sheet:

   a. Close the front and the back printer panels. Install the Manual Feed Tray into the Manual Feed Slot on the Front Panel. (For details on how to use this tray, see Chapter 3 in the User's Guide.)

   b. Remove all tape from tray 1 and add paper.

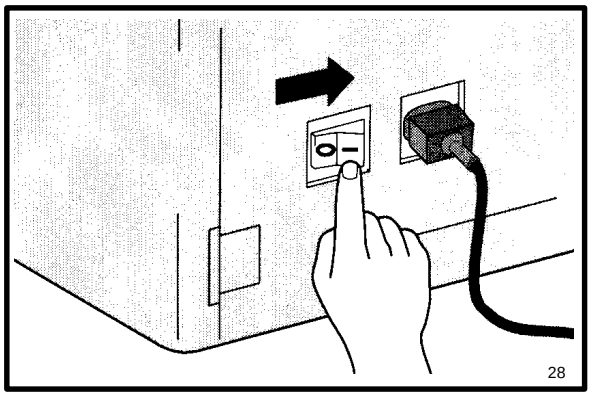


   c. Plug the power cord into the printer and power source.



   d. Switch the printer.

   e. The printer will adjust itself and print a test print. (For a new printer this takes about 10 minutes.)



UPDATING PRINTER/NIC SOFTWARE (C55/C55mp ONLY)

PURPOSE

To update the Network or the Printer software.

Updating the NIC software using CentreWare

Open "Xerox DocuPrint"

Open "CentreWare"

Select Tools, Upgrade Printer ...

Select Network, then select the software. It should have an .XFN extension.

Select OK.

Updating the Printer software using CentreWare

Open "Xerox DocuPrint"

Open "CentreWare"

Select Tools, Upgrade Printer ...

Select Printer, then select the software. It should have an .XFC extension.

Select OK.

Updating the NIC software using the Media Server

Insert the floppy containing the software, select the .XFN file and press **Enter**.

Updating the Printer or NIC software using DOS

If the (C55/C55mp) is configured as a parallel printer you can upload printer and NIC software from DOS.

For Printer upgrade, from the DOS prompt type:

Copy FILENAME.XFC:LPT#

For NIC upgrade, from the DOS prompt type:

Copy FILENAME.XFN:LPT#

is the printer LPT port.

The printer will recognize the files as software.

ENTERING SERIAL NUMBER/ SERVICE/SUPPLIES DATA USING CENTREWARE (C55/C55mp ONLY)

PURPOSE

To enter the printer serial number, service phone number and supplies phone number.

NOTE: If the printer is configured as a parallel printer, you cannot enter this data using CentreWare

Open "Xerox DocuPrint"

Open "CentreWare DP Services"

Select the appropriate Printer.

Select Printer, Properties, System...

In the System Properties window select the Support Tab.

Enter the required data.

Select OK.

ENTERING ALPHANUMERIC DATA USING THE CONTROL PANEL (C55/C55mp ONLY)

PURPOSE

To enter Alphanumeric data using the control panel.

1. Enter the Off Line mode.
2. Scroll to the location requiring the data entry.
3. Press **Select** to move the prompt to the right.
4. Press **Media Server** to move the prompt to the left.
5. The following alphanumerics are available:
   A ~ Z ☒ _ - 9 ~ 0
   ☒ will delete the prompt character and all characters to the right.
6. Use the **Next/Previous** keys to scroll through the characters.
7. Once the proper character is displayed use **Select** or **Media Server** to move the prompt and store the character.
8. When finished entering data, press **Enter**.

UPDATING PRINTER/NIC SOFTWARE [NC60] ONLY

PURPOSE

To update the Network or the Printer software.

Updating the NIC software using CentreWare

Open "Xerox DocuPrint"

Open "CentreWare"

Select Tools, Upgrade Printer ...

Select Network, then select the software. It should have an .XFN extension.

Select OK.

Updating the Printer software using CentreWare

Open "Xerox DocuPrint"

Open "CentreWare"

Select Tools, Upgrade Printer ...

Select Printer, then select the software. It should have an .XFC extension.

Select OK.

Updating the Printer or Optional NIC software using DOS

If the [NC60] is configured as a parallel printer you can upload printer and Optional NIC software from DOS.

For Printer upgrade, from the DOS prompt type:

Copy FILENAME.XFC:LPT#

For NIC upgrade, from the DOS prompt type:

Copy FILENAME.XFN:LPT#

is the printer LPT port.

The printer will recognize the files as software.

ENTERING SERIAL NUMBER/ SERVICE/SUPPLIES DATA USING CENTREWARE [NC60] ONLY

PURPOSE

To enter the printer serial number, service phone number and supplies phone number.

NOTE: If the printer is configured as a parallel printer, you cannot enter this data using CentreWare

Open "Xerox DocuPrint"

Open "CentreWare DP Services"

Select the appropriate Printer.

Select Printer, Properties, System...

In the System Properties window select the Support Tab.

Enter the required data.

Select OK.

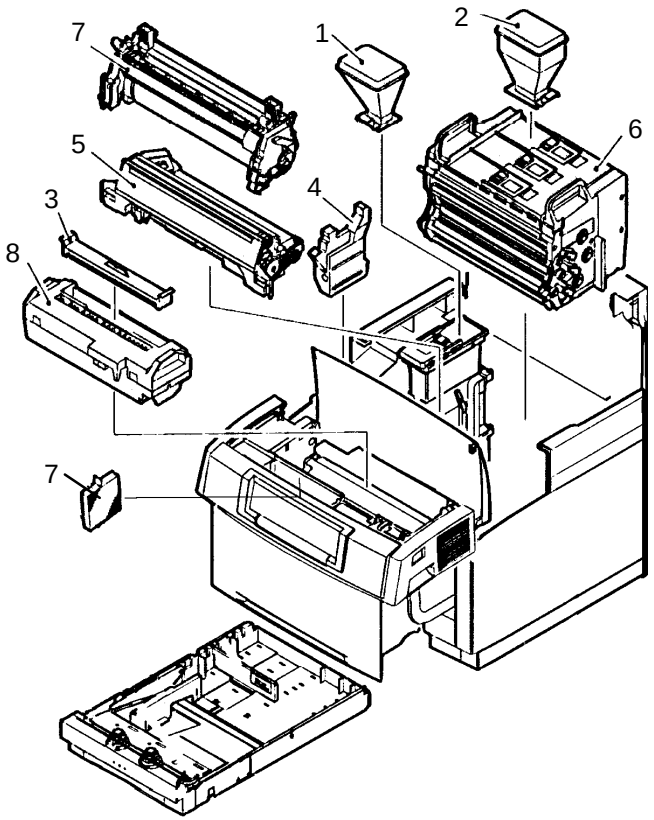
ENTERING ALPHANUMERIC DATA USING THE CONTROL PANEL [NC60] ONLY

PURPOSE

To enter Alphanumeric data using the control panel.

1. Scroll to the location requiring the data entry.
2. Press **Item Up** to move the prompt to the right.
3. Press **Item Down** to move the prompt to the left.
4. The following alphanumerics are available:
   A ~ Z _ - 9 ~ 0
5. Use the **Value Up/Value Down** keys to scroll through the characters.
6. Once the proper character is displayed use **Item Up** or **Item Down** to move the prompt to the next character.
7. When finished entering changes, press **Enter**.

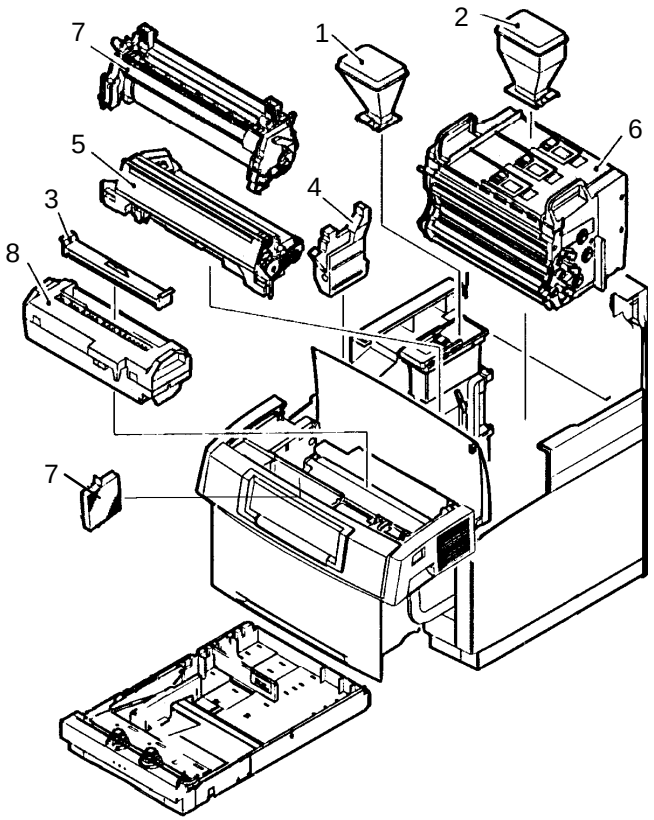
CONSUMABLES (C55/C55mp)



Consumables	XE Part No	US/XCL/ACO PART No	Life @ 5% Area Coverage
1 Black Toner	6R856	6R856	5000 Images
2 Cyan Toner	6R857	6R857	4000 Images
2 Magenta Toner	6R858	6R858	4000 Images
2 Yellow Toner	6R859	6R859	4000 Images
3 Fuser Oil Kit *	8R7724	8R7724	7000 Pages
4 Toner Collector	8R7759	8R7748	7000 Pages
Maintenance Items			
5 Black Developer	5R90226	5R605	50000 Images
6 Color Developer	5R90216	5R596	30000 Images
7 Print Drum & Ozone Filters	13R549	13R549	50000 Images
8 Fuser	8R7890	8R7889	60000 Prints

* The first oil bottle will fill the sump. Expect 5000 to 6500 pages on the first oil kit. The Kit includes 2 oil bottles and one wiper roller.

CONSUMABLES [NC60]



Consumables	XE Part No	US/XCL/ACO PART No	Life @ 5% Area Coverage
1 Black Toner	6R856	6R856	5000 Images
2 Cyan Toner	6R857	6R857	4000 Images
2 Magenta Toner	6R858	6R858	4000 Images
2 Yellow Toner	6R859	6R859	4000 Images
3 Fuser Oil Kit *	8R7724	8R7724	7000 Pages
4 Toner Collector	8R7759	8R7748	7000 Pages
Maintenance Items			
5 Black Developer	5R90228	5R621	50000 Images
6 Color Developer	5R90227	5R620	30000 Images
7 Print Drum & Ozone Filters	13R556	13R556	50000 Images
8 Fuser	8R7981	8R7642	60000 Prints

* The first oil bottle will fill the sump. Expect 5000 to 6500 pages on the first oil kit. The Kit includes 2 oil bottles and one wiper roller.

OPTIONAL KITS (C55/C55mp)

Optional Kits	XE Part No	US/XCL/ACO PART No
Adobe PostScript Kit	98S3042	98S3042
Lower Feeder	98S3035	98S3035
Universal Tray	98S3034	98S3034
Serial/LocalTalk Card Kit	98S3038	98S3038
Ethernet Card Kit	98S3036	98S3036
TokenRing Card Kit	98S3037	98S3037
Media Server Kit	98S3032	98S3032
Hard Drive (810 M)	98S3033	98S3033
Repack Kit	NA	600K62160
Memory SIMM's		
4 MB	97K15280	97K15280
8 MB	98S3039	98S3039
16 MB	97K15300	97K15300
32 MB	97K22330	97K22330

OPTIONAL KITS [NC60]

Optional Kits	XE Part No	US/XCL/ACO PART No
Lower Feeder	98S3035	98S3035
Universal Tray	98S3034	98S3034
Ethernet Card Kit (100 MB)	97S2189	97S2189
TokenRing Card Kit	97S2035	97S2035
Media Server Kit	98S3032	98S3032
Hard Drive (810 M)	98S4154	98S4154
Repack Kit	NA	600K62160
Memory SIMM's		
8 MB	97S02240	97S02240
16 MB	97S02241	97S02241
32 MB	97S02242	97S02242

PRODUCT CODES (C55/C55mp)

Product	Product Code
USCO/ACO 120V / 8A (C55)	D1V
XE 220 - 240V / 5A. (C55)	D2V
USCO/ACO 120V / 8A (C55mp)	D3V
XE 220 - 240V / 5A (C55mp)	D4V
ACO 220V - 240V / 5A (C55)	K4H
ACO 220 - 240V / 5A (C55mp)	K5H

PHYSICAL CHARACTERISTICS (C55/C55mp)

Dimension	English	Metric
Width	18.5 inches	470 MM
Height	16.5 inches	419 MM
Depth	16.5 inches	419 MM
Weight	Appx. 89 lbs.	Appx. 40 KG

CAPABILITIES (C55/C55mp)

Printing Speed, letter size

Black: 12 ppm.

Color: 3 ppm.

Warm-Up Time

180 seconds.

Resolution

600 × 600 × 1
with 24 MB of RAM.

With PostScript: Contone = 600 × 600 × 4
with 24 MB of RAM.

Paper Feed System

Cassette & Manual Feed.

Cassette Capacity = 250 sheets 20 lb. (80 gsm.) paper.

Tray 2 (Optional) = 250 sheets 20 lb. (80 gsm.) paper.

Print Media (throughput materials)

The sizes in **bold** typeface are detected automatically. One of the other sizes can be assigned using the Off Line Menus.

Inches	Metric
Letter (8.4×11)	**A4 (210×297 mm)**
Legal (8.5×14)	A5 (148×210 mm)
Executive (7.25×10.5)	B5 (176×250 mm)
Invoice (5.5×8.5)	SP. Folio (216×315 mm)
8×10	
8.5×13	

Paper Exit System

Face down on the top cover,
Capacity = 150 sheets.

Print Materials Information

For complete details see the User's Guide.

Material	Part Number/ Description	Comments
Paper	20 to 24 lb. (80 to 90 gsm.)	Best
Paper	16 to 24 lb. (60 to 90 gsm.)	Good
Paper	Less than 16 lb. (60 gsm.) or greater than 24 lb. (90 gsm.)	Not recommended
Transparency	3R4446 (8½ × 11 clear)	Best
Transparency	3R96002 Lot M (A4 clear)	Best

OTHER SPECIFICATIONS (C55/C55mp)

Electrical Power Requirements

OPCO	Power Requirements
USCO / XCL	115V 50/60 Hz., 15A
XE	220 - 240V, 50/60 Hz., 10 - 15A

Power Consumption

300 W Average / 1000 W Maximum

Environmental Operating Conditions.

Minimum:

50° F (10°C) at 15% relative humidity.

Maximum:

90° F (32°C) at 85% relative humidity.

Recommended:

63 to 81° F (17.5 to 27°C)
at 60% to 70% relative humidity.

Maximum Altitude:

6560 feet (2000M).

Sound Level

47 dbA Standby (Max.)

54 dbA Running (Max.)

PRODUCT CODES [NC60]

Product	Product Code
USCO/ACO 110-130V / 8A	CR0
XE 200 - 260V / 5A.	CR1
ACO 200V - 260V / 5A	CR2

PHYSICAL CHARACTERISTICS [NC60]

Dimension	English	Metric
Width	18.5 inches	470 MM
Height	16.5 inches	419 MM
Depth	16.5 inches	419 MM
Weight	Appx. 89 lbs.	Appx. 40 KG

CAPABILITIES [NC60]

Printing Speed, letter size

Black: 16 ppm.

Color: 3 ppm.

Warm-Up Time

180 seconds.

Resolution

600 × 600 × 1
with 64 MB of RAM.

With PostScript: Contone = 600 × 600 × 4
with 64 MB of RAM.

Paper Feed System

Cassette & Manual Feed.

Cassette Capacity = 250 sheets 20 lb. (80 gsm.) paper.

Tray 2 (Optional) = 250 sheets 20 lb. (80 gsm.) paper.

Print Media (throughput materials)

The sizes in **bold** typeface are detected automatically. One of the other sizes can be assigned using the Tray Menu.

Inches	Metric
Letter (8.4×11)	**A4 (210×297 mm)**
Legal (8.5×14)	A5 (148×210 mm)
Executive (7.25×10.5)	B5 (176×250 mm)
Invoice (5.5×8.5)	SP. Folio (216×315 mm)
8×10	
8.5×13	

Paper Exit System

Face down on the top cover,
Capacity = 150 sheets.

Print Materials Information

For complete details see the User's Guide.

Material	Part Number/ Description	Comments
Paper	20 to 24 lb. (80 to 90 gsm.)	Best
Paper	16 to 24 lb. (60 to 90 gsm.)	Good
Paper	Less than 16 lb. (60 gsm.) or greater than 24 lb. (90 gsm.)	Not recommended
Transparency	3R4446 (8½ × 11 clear)	Best
Transparency	3R96002 Lot M (A4 clear)	Best

OTHER SPECIFICATIONS [NC60]

Electrical Power Requirements

OPCO	Power Requirements
USCO / XCL	110 - 130V 50/60 Hz., 15A
XE	220 - 260V, 50/60 Hz., 10 - 15A

Power Consumption

300 W Average / 1000 W Maximum

Environmental Operating Conditions.

Minimum:

50° F (10°C) at 20% relative humidity.

Maximum:

90° F (32°C) at 85% relative humidity.

Recommended:

50 to 90°F (10 to 32°C)
at 20% to 85% relative humidity.

Maximum Altitude:

6560 feet (2000M).

Sound Level

32 dbA Standby (Max.)

52 dbA Running (Max.)

CONTROLLER SPECIFICATIONS (C55/C55mp)

AMD 29040 RISC processor, operating at 50/25 Mhz.

Memory

24 MB DRAM / 6 MB FLASH ROM Standard on C55/C55mp.

Upgradable to a maximum of 64 MB.

Printer Description Languages (PDL)

Standard on C55: PCL 5C (Optional Adobe PS II Upgrade).

Standard on C55mp: PCL 5C and Adobe PS II Coresident).

Resident Fonts

35 Type 1 (PostScript printers only).

35 Intellifonts (PCL 5C).

10 TrueType (PCL 5C).

Interfaces

Standard: IEEE 1284 parallel port compatibility, with ECP and Nibble Modes (Windows 95 Plug and Play Standard).

C55mp Standard with Ethernet Network Interface Card.

Optional: LocalTalk and Serial.

Optional: Ethernet/Token Ring.

CONTROLLER SPECIFICATIONS [NC60]

Intel i960 superscalar processor, operating at 66 Mhz.

Memory

64 MB DRAM / 8 MB FLASH ROM Standard on NC60.

Upgradable to a maximum of 128 MB.

Printer Description Languages (PDL)

Adobe PostScript 3.0 and PCL 5C coresident

Resident Fonts

35 Type 1 (PostScript only).

35 Intellifonts (PCL 5C).

10 TrueType (PCL 5C).

Interfaces

P1284 parallel port compatibility, with ECP and Nibble Modes (Windows 95 Plug and Play Standard).

Standard with Ethernet 10MB Network Interface.

Optional: Ethernet 100MB

Optional: Token Ring.

TOOLS

Table 1, Standard Tools

Description	Part Number
Basic Tool Kit	600T1835
Metric Tool Kit	600T1880
Multimeter	600T1616
Lead Kit	600T1923

Table 2, Unique Tools

Description	Part Number
5.5 MM Magnetic Socket Driver	600T1123
Mag tip “+ Screw” Xcelite Drive Insert	600T1989
Optics Blue Cloth (lint free cleaning cloth)	499T90417
1.5 MM Hex Key Wrench	600T41107

Table 3, Supplies

Description	Part Number
Drop Cloth	35P1737
Cotton Swabs	35P2137
Clean Ups	43P67
Lint Free Tissues	35P2163

CHANGE TAG INDEX (C55/C55mp)

INTRODUCTION

Modifications to the printer are identified by a tag number which is recorded on a tag matrix card. There are two tag matrix cards. One is inside the ESS PWB cover and indicates the Systems Configuration. The second card, the IOT TAG Matrix, is attached to the printer frame, on the inside of the left rear side (viewed from the printer front).

CLASSIFICATION CODES

A tag number may be required to identify differences between parts that cannot be interchanged or differences in diagnostic repair, installation, or adjustment procedures. A tag number may also re required to identify the presence of optional hardware, special non-volatile memory programming, or whether mandatory modifications have been installed. Each tag number is given a classification code to identify the type of change that the tag has made. The classification codes and their descriptions are listed in the table below.

Classification Code	Description
M	Mandatory Tag.
N	Tag not installed in the field.
O	Optional Tag.
R	Repair Tag.

TAG 1:

DESCRIPTION: IOT was upgraded to PCU Firmware Version 66. This upgrade was performed during final integration in the US

CLASS: NA

USE:

MFG SERIAL NUMBERS:

NAME: IOT Firmware

PURPOSE: Firmware upgrade

KIT NUMBER: None

REFERENCE:

TAG 2:

DESCRIPTION: IOT was upgraded to PCU Firmware Version 66 at the manufacturing site.

CLASS: NA

USE:

MFG SERIAL NUMBERS:

NAME: IOT Firmware

PURPOSE: Firmware upgrade

KIT NUMBER: None

REFERENCE:

TAG 3:

DESCRIPTION: PCU and ESS PWBs modified to allow CISPR B certification in Rank Xerox. ESS also upgraded to optimize memory timing.

CLASS: NA

USE:

MFG SERIAL NUMBERS:

NAME: ESS and IOT Firmware

PURPOSE: Firmware upgrade to allow CISPR B certification in Rank Xerox

KIT NUMBER: None

REFERENCE:

TAG 4:

DESCRIPTION: Seals added to black toner hopper to prevent toner leakage during initial loading.

CLASS: NA

USE:

MFG SERIAL NUMBERS:

NAME: Black Toner Hopper

PURPOSE: Seals added to prevent toner leakage

KIT NUMBER: None

REFERENCE:

TAG 5:

DESCRIPTION: IOT was upgraded to PCU Firmware Version 75 at the manufacturing site. E-Prom soldered to PCU PWB.

CLASS: NA

USE:

MFG SERIAL NUMBERS:

NAME: IOT Firmware

PURPOSE: Firmware upgrade

KIT NUMBER: None

REFERENCE:

TAG 6:

DESCRIPTION: Field upgrade of IOT PCU Firmware Version 75. E-Prom soldered to PCU PWB.

CLASS: NA

USE:

MFG SERIAL NUMBERS:

NAME: IOT Firmware

PURPOSE: Firmware upgrade

KIT NUMBER: None

REFERENCE:

TAG 7:

DESCRIPTION: Strip of aluminum tape added to Waste Toner bottle Assembly to aid in recognition of full toner bottle.

CLASS: NA

USE:

MFG SERIAL NUMBERS:

NAME: Waste Toner Change

PURPOSE: To aid in recognizing full bottle.

KIT NUMBER: None

REFERENCE:

NOTES:

CHANGE TAG INDEX [NC60]

INTRODUCTION

Modifications to the printer are identified by a tag number which is recorded on a tag matrix card. There are two tag matrix cards. One is inside the ESS PWB cover and indicates the Systems Configuration. The second card, the IOT TAG Matrix, is attached to the printer frame, on the inside of the left rear side (viewed from the printer front).

CLASSIFICATION CODES

A tag number may be required to identify differences between parts that cannot be interchanged or differences in diagnostic repair, installation, or adjustment procedures. A tag number may also re required to identify the presence of optional hardware, special non-volatile memory programming, or whether mandatory modifications have been installed. Each tag number is given a classification code to identify the type of change that the tag has made. The classification codes and their descriptions are listed in the table below.

Classification Code	Description
M	Mandatory Tag.
N	Tag not installed in the field.
O	Optional Tag.
R	Repair Tag.

NOTES: