

## DocuColor 250 (DC250 style)... Technical Information - Xerox Docucolor 240, 250, 242, 252, 260, WorkCentre 7655, 7665, 7675, 7755, 7765, 7775, DCP700, 550/560/570, J75/C75



**Warning :** The diagnostics on these machines are designed to be used by experienced copier technicians only. These are very sensitive machines and changing the wrong NVM setting can potentially cause serious problems. Only use the information which follows if you are willing to take 100% responsibility for your actions.

When we dove into the fuser modules for this same series a while back... I had noted that “few Xerox models have earned as much praise as the DocuColor 250 series”. I’ve not changed my mind on that. A good sign that this series is here to stay for a while is that there are new models just coming out that use the same engine (the WC 7755/7765/7775 were 2010 releases & J75/C75 models came out in 2014). These are all sturdy, full color machines with very few inherent problems to report. The machine is well laid out, and extremely technician friendly. Let’s get started with a brief introduction and then take a dip in the rather large pool of possible Fault Codes you might encounter. We’ll also cover how to get into the Diagnostic Mode so you can do things like testing components & clearing a few of the Faults which you may run into in your adventures.

Ok... I am told these machines are easy to work on as far as physical mechanics are concerned. How easy? Well there are 3 maintenance drawers. One with the Drum Cartridges and Developer units, a second one with the Transfer Belt Assembly and Belt Cleaner Assembly, and a third drawer with the 2<sup>nd</sup> BTR (Transfer Roll Assembly) and Fuser Module. A novice can take the DV Unit out if it came down to it. This is unusual and extremely refreshing. An engineering marvel by all means.

The various groups (or let’s call them “families”) of machines within this “DC250 style”, have many similarities but naturally there are differences as well. They share very similar fuser modules, toner cartridges and drum cartridges, so internally they are very similar... read near the end of this write up about the differences between models. The diagnostics are also very similar from family to family, except that the method to enter the diagnostic mode changed early on in the WC-7655 group of models (v2 software). We’ll cover the two ways to get into diagnostics after the fault code list.

The Fault Codes and their “RAPs” (Repair Analysis Procedures) in the Service Manual take up a whopping 900 + pages... so this list will have to be severely abbreviated. The plan is to stick to the codes which are more important to field techs. The codes are all laid out as 3 digits (the “Chain”) followed by a dash and then 3 more digits (the “Function”) (example: for ‘010-330’... the chain would be ‘010’). The first three digits do give some hint as to which part of the machine is being referred to (chain ‘010’ for example refers to fuser problems) ... so it makes sense to generalize in the list as to what part of the machine the various “Chains” point to. Here goes:

### **FAULT CODE LIST:**

Fault Code:	Description / Notes:
002-770	The Hard Drive (HDD) is over capacity
003-xxx codes	Generally: Communication Errors between boards in the machine
005-xxx codes	Generally: Document Feeder problems
005-121 thru 005-158	Document Jams
005-194 thru 005-199	Document size mismatch problems
005-275/280	Document Feeder communication errors
005-281 thru 005-283	Document Tray lift problems
005-284	Document APS (Automatic Paper Sensors) failure (there are 3 sensors which detect various paper widths on the document feeder)
005-285	Document Nudger up failure
005-286	Document feed-out sensor failure
005-303	Document Tray Interlock is open
005-304	Document Platen Interlock opened during a job
005-305	Document Top Cover Interlock opened during a job
005-306	Document Tray Interlock opened during a job
005-308/309	Document Left Cover is open or opened during a job

005-906 thru 005-918	Document is still detected in feeder after power-on or after closing one of the document door interlocks
010-xxx codes	Generally: Fuser faults
010-311	Open fuser thermistor was detected (white connector)
010-319 *	Fuser Heat Control problem... *NOTE: This code must be cleared from Diagnostic Mode... details below.
010-320 **	Fuser Overheat problem... (can be reported by any of the 3 thermistors in the fuser) ** NOTE: This code must be cleared from Diagnostic Mode... details below.
010-322 thru 010-323	Fuser thermistor open circuit detected (NC Center Sensor or Rear Thermistor)
010-324***	Fuser NVM (Memory) failure *** NOTE: This code must be cleared from Diagnostic Mode... details below.
010-326 thru 010-327	Fuser Heat Control problems
010-330	Fuser Motor failure
010-420	Fuser Module nearing end of life... NOTE: Read below for fuser count reset info.
010-421	Fuser Module "End of Life"... NOTE: if the fuser is still good, you can replace the Fuser Reset Fuse (on top of the fuser) and possibly the Fuser Heat Roll to keep it running.
012-xxx codes	Generally: Finisher problems
013-xxx codes	Generally: Finisher / Booklet Maker problems
016-xxx codes	Generally: Options or Software failures
016-311	Scanner not detected
024-340 thru 024-747	ESS (Network Controller) problems
024-910 thru 024-917	Paper size Sensing problems (in one of the paper drawers)
024-919	Face Up Tray interlock open
024-920/922	Face Down Tray 1 full / Face Down Tray 2 full
024-923/924/ 925	Toner Cartridge Empty – Y / M / C
024-927/930	OCT (Offset Catch Tray) full / Stacker Tray full
024-934 thru 024-939	Paper type mismatch errors
024-946/947/ 948/949	Tray not in position (T1/2/3/4)
024-950/951/ 952/953/954/ 955/956	No Paper in tray (T1/2/3/4/5/6/7)
042-313	Rear Fuser Cooling Fan failure
042-320/321/ 322/323	Drum Motor failures – 320=Y, 321=C, 322=M, 323=K (black)
042-324	IBT Belt Drive Motor failure
042-325	Main Motor failure
042-326	IBT Belt Home position not detected in time ****
042-327	IBT Belt Position failure
042-328	IBT Belt Edge Sensor failure
042-330	Fuser Exhaust Fan failure
042-331	Blower Motor Fan failure
042-600/601/ 602	Belt Edge timing failures
042-603	Suction Filter end of life
045-xxx codes	Printing communication failures
061-320/321	ROS (Laser Unit) polygon motor failures
061-323 thru 061-607	ROS (Laser Unit) problems
062-357	CCD (Scanner) Fan failure
062-360	Exposure Carriage position failure.
062-371	Exposure Lamp not lighting (or very dim)
071-101 thru 071-105	Paper Jams from Tray 1 at takeaway or registration
071-210	Tray 1 Lift failure
072-101 thru 072-105	Paper jams from Tray 2 at takeaway or registration
072-210	Tray 2 Lift failure
073-101 thru 073-105	Paper jam from Tray 3 at takeaway or registration
073-210	Tray 3 Lift failure
074-101 thru 074-105	Paper jam from Tray 4 at takeaway or registration
074-210	Tray 4 Lift failure
075-100 thru 075-135	Paper jam from Tray 5 at takeaway or registration
075-210/211	Tray 5 Lift failure / Lift down failure
077-103 thru 077-118	Fuser Exit Sensor jam or final Exit Sensor jam.
077-120	Post 2 <sup>nd</sup> BTR Roll Sensor jam
077-123 thru 077-130	Inverter jams
077-300	Front Cover interlock open
077-301	Left Door interlock open
077-302	Right Cover interlock open
077-303	Transfer Module 2 interlock open
077-909	Paper detected in paper path at power-on
078-100 thru 078-151	Paper jam from Tray 6 / High Capacity Feeder (HCF) at takeaway or registration

078-250	Tray 6 (HCF) Lift failure
078-300	HCF (Hi Capacity Feeder) Top Cover interlock open
078-301	HCF Docking Interlock open
089-600 thru 089-617	Image Registration Control problems
091-311	BCR and Black Charge Corotron Cleaner control problem
091-312	Black Charge / Preclean HVPS (Hi Volt Power Supply) failure
091-313	Drum Cartridge CRUM (chip) communication failure
091-320	Black Charge Corona Wire is broken
091-400	Waste Toner Bottle replacement needed soon
091-401	Black Drum Cartridge near end of life
091-403	Black Charge Corotron Assembly near end of life
091-404	Black Charge Corotron Assembly has reached end of life
091-411	Yellow Drum Cartridge near end of life
091-421	Magenta Drum Cartridge near end of life
091-431	Cyan Drum Cartridge near end of life
091-910	Waste Toner Bottle not detected
091-911	Waste Toner Bottle full
091-913	Black Drum Cartridge at end of life
091-914 thru 091-916 or 091-921	Black Drum Cartridge CRUM communication problems
091-917/920/ 924/925/927	Yellow Drum Cartridge CRUM communication problems
091-918/922/ 928	Magenta Drum Cartridge CRUM communication problems
091-919/923/ 926/929	Cyan Drum Cartridge CRUM communication problems
091-932	Yellow Drum Cartridge end of life
091-933	Magenta Drum Cartridge end of life
091-934	Cyan Drum Cartridge end of life
092-649/650	ADC Sensor Shutter failures
092-651/652	IBT Belt ADC Sensor (MOB ADC) failures
092-653 thru 092-660	ATC (from Developer Unit) problems... 653/657=yellow, 654/658=magenta, 655/659=cyan, 656/660=black
093-300	Marking Drawer Interlock open
093-313 thru 093-317*****	Toner Dispense problems... 314=Y, 315=M, 316=C, 317=K (black) *** <b>NOTE:</b> These codes must be cleared from Diagnostic Mode... details below.
093-320	Developer Motor failure
093-421 thru 093-425	Toner Cartridges low 421/422=K(black), 423=Y, 424=M, 425=C
093-600 thru 093-912	Toner Dispense problems (600=Y, 601=M, 602=C, 603/912=K(Black),
093-918 thru 093-940	Toner CRUM failures (918/924/925/926/936/940=K(black), 927/933/937=Y, 928/934/938=M, 929/935/939=C
094-320/321	1 <sup>st</sup> BTR (Transfer Roll) retract or contact problems
094-322/323	2 <sup>nd</sup> BTR (Transfer Roll) retract or contact problems
102-xxx codes	Generally: Network Controller (ESS) problems
112-700	Finisher Punch Dust Box full (hole punch bin)
116-xxx codes	Generally: Network Controller (ESS) problems
123-xxx codes	Generally: UI (control panel) faults
124-xxx codes	Generally: Configuration errors (example: serial number disagreement between various boards... or machine speed errors, etc)
127-xxx codes	Printing failures

### **Clearing some fault codes (from Diagnostics):**

**Remember to always solve the cause of the fault before resetting them in memory.**

\*Fuser Heat Control problems (010-319)... Read below about how to reset NVM value 744-351 back to '0'.

\*\*Fuser Overheat problems (010-320)... Read below about how to reset NVM value 744-350 back to '0'.

\*\*\*Fuser NVM (memory) failure (010-324)... Read below about how to reset NVM value 744-352 back to '0'.

\*\*\*\*IBT Belt Home Position Sensor Failure (042-326)... Read below about how to reset NVM value 741-105 to '0'

\*\*\*\*\* Toner Dispense Problems... Read below about how to reset the appropriate NVM value.

Fault 093-314 (393-314) for Yellow resets with 762-312

Fault 093-315 (393-315) for Magenta reset with 762-313

Fault 093-316 (393-316) for Cyan resets with 762-314

Fault 093-317 (393-317) for Black resets with 762-315

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1. **Diagnostic Entry:** For DC240/242/250/252/260: Hold down the '0' button for 5 full seconds and then while still holding the '0', press 'Start'. A prompt for a password will show up (the "CE Access Number"). Use the default password '6789', and press 'Confirm'.  
**For most WC-7655/7665/7675's (some of them with earlier software work like the DC250 above) & also 7755/7765/7775, 550/560/570, DCP700, J75/C75:** Hold down together '\*', '#', & 'Stop' until the "CE Access Number" screen prompts you for a password. Then use the default password: '6789' followed by 'Confirm'.
2. Press the "Log-in / Log-out" button... then on the touchscreen, touch "System Settings", followed by "Common Settings", and finally "Maintenance / Diagnostics".
3. Choose "Dc131 NVM Read / Write".
4. Touch the first empty block to enter the "chain" **744**. The 1<sup>st</sup> three digits in an NVM code are called the "chain" and the second set of 3 digits are called the "Function". Enter the appropriate "Function" code (**351** for Fault Code 010-319, **156** for Fault Code 010-320, or **352** for Fault Code 010-324). Touch the "Read" button. The current setting will show up. Press "Val" to then change the value back to '0' and press 'Save'.
5. Finally when you exit diagnostics be sure to reboot the machine so the changes stick. Use the "Call Close" button.

### **The "Machine Status" Button:**

The "Machine Status" button near the lower left of the control panel gives folks access to the following stuff:

- Machine Information (includes serial number, machine configuration, a paper tray status chart, & software versions)
- Billing Meters
- Print Report / List (basic reports like job status, copy mode settings, print mode settings, or scan mode settings)
- Consumables (a list of customer replaceable consumables and their status)

While the current fault code or message is normally displayed on the upper left corner of the screen, you may want to also view a Fault History Report to see what faults have been going on lately. This can be done by pressing the "Machine Status" button. Then touch the "Faults" tab. A button will show up which will allow you to print out the "Fault History Report"...

### **System Administrator Mode from the UI / Control Console:**

This password protected mode allows the key operator or administrator more access to things like default settings. If the default Usernames / Passwords do not work, you'll need to ask the customer for the new password.

**For DC240/242/250/252/260:** Press "Log-in/out" and enter the "Username" (the default username is '11111' (five 1's), then enter the "Password" (the default Password is 'admin').

**For 550/560/570, WC-7655/7665/7675, WC-7755/7765/7775, J75/C75:** Press "Log-in/out" and If prompted for a Username, enter the default Username: 'admin'... then enter the Password (the default is '1111' (four 1's)).

**For DCP700:** Press "Log-in/out" and enter the Username "11111", followed by the Password (Default = 'x-admin')

Once you're in the System Administrator mode, you'll see a menu with 4 choices:

- System Settings (*This choice's submenu is covered below*)
- Setup Menu (*Paper Tray Attributes settings*)
- System Administrator Settings (*Login ID, Administrator Password, & Maximum Login Attempts*)
- Login Setup / Auditron Administration

**System Settings** brings you to a submenu: Common Settings, Copy Mode Settings, Scan Mode Settings, & Network Controller Settings.

If you choose "Common Settings" you'll see a nice long list of choices:

- Machine Clock / Timers
- Audio Tones
- Screen Defaults
- Paper Tray Settings
- Image Quality Adjustments
- Reports
- Maintenance / Diagnostics (*in System Admin Mode, two choices appear: "Initialize Hard Drive", or "Delete All Data", you'll see later that this submenu has a much wider range of choices from "CE" mode / UI Diagnostic Mode.*)
- Watermark
- Other Settings

## **DIAGNOSTICS**

### **UI (User Interface) Diagnostic Mode (also called “CE Mode”):**

**CAUTION:** I think it is very important to caution anyone who might read this, that the UI Diagnostic Mode is for experienced technicians ... changing settings or running internal tests on these machines without an in-depth understanding of what you are doing can cause serious problems or even damage to the machine, and can also be dangerous for the person running the tests. **Do not use the information presented here unless you are willing to take 100% responsibility for your actions.**

The process for getting into the UI Diagnostic Mode depends on exactly which model you’re working on. **For DC240/242/250/252/260:** Hold down the ‘0’ button for 5 full seconds and then, while still holding the ‘0’, press ‘Start’. A prompt for a password will show up (the “CE Access Number” screen). Use the default password ‘6789’ followed by ‘Confirm’. Next press the “Log-in / Log-out” button.

**For most WC-7655/7665/7675’s (some early ones work like the DC250 above... also probably true for the 7755/7765/7775):** Hold down together ‘\*’, ‘#’, & ‘Stop’ until the password prompt shows up. Then use the ‘6789’ default password followed by ‘Confirm’. Next press the “Log-in / Log-out” button.

Once you’re in UI Diagnostic Mode, choose ‘System Settings’, then choose ‘Common Settings’, followed by ‘Maintenance / Diagnostics’. Here you’ll find the most important menu... We’ll talk briefly about each of the menu items afterwards. Here are the things you’ll see:

- Software Options (*Allows an OEM rep to install upgrades for the machine using passwords provided by the OEM using the machine’s serial number to generate the password. If a machine has options installed, make sure to keep a backup of all any passwords for that machine’s options.* )
- Print Test Patterns
- MAX Setup (for color registration setup, etc.)
- Initialize Hard Disk (*Warning... Don’t use this without a full understanding of what the procedure will do... you’ll need to have the full Service Manual on-hand. This will reformat partition 1... eliminating all fonts & Job Templates*)
- NVM Initialization (*Warning... Don’t use this one either without a full understanding of what the procedure will do... you should only use this stuff if you have the full Service Manual with you.*)
- IO Check (Component Control... *allows you to test Input & Output Components... you will need a list of what each Component’s Control Code is to use this*)
- Sub System (*has a sub menu choice: “Belt Edge Learn...” necessary for whenever the IBT Belt is replaced*)
- Delete All Data
- NVM Read/Write (*allows you to change NVM [Non Volatile Memory] settings... you will need a list of what each NVM Setting Code is before you can make use of this.*)
- Registration (*Registration of the image on the paper... read more below*)
- Adjustment / Others (*has a sub menu with two choices: “Machine ID / Billing Data Settings” & “Initialize HFSI Counter”*)

This is a fair range of access. Don’t get me wrong... the authorized dealers who have the PWS Laptops (the Portable work Station) do maintain some significant advantages. The main limitation you face without a PWS (Portable Work Station), is that in “Component Control” and also in “NVM / Read Write” (memory settings), you can’t browse through a list of codes to choose from. For these two functions, you’ll need to know which code you are going to enter, so you’ll be needing lists of these codes. These lists are only viewable from the PWS’s screen.

Now lets have a more in-depth look at each of the menu choices from the list above:

**Software Options:** If you press “Software Options” followed by “Keyboard”, you can then punch in the password for the optional service you are installing or re-installing... then select ‘Save’ followed by ‘Reboot’.

**Print Test Patterns:** There are many available test patterns which are useful for troubleshooting copy quality problems and for isolating which board may be responsible for the symptom you are troubleshooting. There are a wide range of patterns to choose from...Each has its own 3 digit code. It appears that the list will not show up on-screen... so, you will need a list of the pattern's 3 digit codes or else you'd be choosing blindly.

Pattern #	Test Pattern Name	Source
001	Registration Grid	MCU PWB
002	Grid 45 Degree	MCU PWB
003	Color Registration	MCU PWB
004	Color Registration -Visual	MCU PWB
005	Banding	MCU PWB
006	Ted/starvation	MCU PWB
007	Automatic Tone Correction -Adjustment	MCU PWB
008	Automatic Tone Correction -Check	MCU PWB
009	ProCon	MCU PWB
010	16 tone	MCU PWB
011	Halftone	MCU PWB
012	In/out Adjustment (Primary Colors)	MCU PWB
013	In/out Adjustment (Secondary Colors)	MCU PWB
014	In/out Adjustment (Single Color)	MCU PWB
015	Highlight Adjustment	MCU PWB
016	Color Patch 182	MCU PWB
017	Gradation	MCU PWB
018	Adjustment in SS direction_YC	MCU PWB
019	Adjustment in SS direction_MK	MCU PWB
110	IIT Analog Gradation RGB	IIT/IPS PWB
112	IIT Analog Gradation BW	IIT/IPS PWB
113	Pre-IPS_FS Increment RGB	IIT/IPS PWB
115	Pre-IPS_FS Increment BW	IIT/IPS PWB
117	Pre-IPS_SS Increment RGB	IIT/IPS PWB
119	Pre-IPS_SS Increment BW	IIT/IPS PWB
121	Pre-IPS_Grid BW	IIT/IPS PWB
122	Pre-IPS_Shading Data Color	IIT/IPS PWB
123	Pre-IPS_Shading Data BW	IIT/IPS PWB
124	Pre-IPS_Vertical Stripes	IIT/IPS PWB
125	Pre-IPS_8 Tone Patch	IIT/IPS PWB
126	Pre-IPS_Solid	IIT/IPS PWB
127	Post-IPS 4C	IIT/IPS PWB
128	Post-IPS_BW	IIT/IPS PWB
129	Post-IPS_FSRE Grid	IIT/IPS PWB
130	Post-IPS_FSRE Diagonal Grid	IIT/IPS PWB
131	Post-IPS_Bit Pattern 2 Level BW	IIT/IPS PWB
132	Post-IPS_Bit Pattern 2 Level 4C	IIT/IPS PWB
133	Post-IPS_Bit Pattern Multi-level BW	IIT/IPS PWB
134	Post-IPS_Bit Pattern Multi-level 4C	IIT/IPS PWB
135	TAG Fixed Copy 1	IIT/IPS PWB
137	Pre-IPS_FS Increment (Ext Bypass)	IIT/IPS PWB
138	Pre-IPS_SS increment (Ext bypass)	IIT/IPS PWB
139	Pre-IPS_Vertical Stripes (Ext Bypass)	IIT/IPS PWB
140	Pre-IPS_FS increment (via Ext Mem. PWB)	IIT/IPS PWB
141	Pre-IPS_SS increment (via Ext Mem. PWB)	IIT/IPS PWB
142	Pre-IPS_Vertical Stripes (via Ext. Mem. PWB)	IIT/IPS PWB

**MAX Setup:** The MAX setup menu contains the following stuff:

- Procon ON/OFF Print
- IIT Calibration
- In/Out Manual Setup
- ATC Sensor Setup
- TRC Adjust
- Tone Up/Down
- Color Balance

**Component Control:** Here is where you'll go to test Input Components such as Sensors and Switches... and also Output Components such as motors, solenoids, lamps, & clutches. You will be needing the list of codes and their corresponding components to use this at all since it does not appear in a menu on the Control Panel. We'll cover the list in an abbreviated fashion in the next article. It is a very lengthy list.

### **Delete All Data:**

To quote the Service Manual: “This procedure deletes user-defined/registered information and information recorded automatically by the system from the hard disk, the ESS NVM PWB and Buffer RAM”. Do not do this unless you are sure what exactly will be deleted.

### **NVM Read / Write:**

This is covered later on in these pages... the lists of NVM codes are not browse-able from the Control Panel. The list is very long. See the list below starting on page 12... and be very careful with which settings you change. Keep a careful log and double check each code you are going to change to make sure it's the right one.

### **Machine ID / Billing Data Settings**

There are 3 boards in the machine which all have the Serial Number, Product Number and Billing Counters: the MCU NVM PWB (the IOT or Main machine logic board), the SEEP ROM (on the ESS or Network Controller, known as Sys1), and the ESS NVM PWB (sys2 on the ESS or Network Controller). These 3 must agree with each other (otherwise a Fault Code will be called... 124-310, 124-311, 124-312, 124-313, 124-324, or 124-325). This process is designed to synchronize the three boards when one of them gets corrupted or needs to be replaced. From “Machine ID / Billing Data Settings”, choose a Board which has the correct data on it and select ‘Start’... Enter the correct Serial Number and then select ‘Confirm’.

### **Component Control**

Once you're in UI Diagnostic Mode, choose ‘System Settings’, then choose ‘Common Settings’, followed by ‘Maintenance / Diagnostics’. Scroll down and choose “IO Check” & finally select: “Component Control”.

From the Component Control screen, you'll enter the “Chain” (the first 3 digits of the code) followed by the “Function” (the second 3 digits of the code). Press ‘Start’ to activate the test. For these Input Component Tests, you will be able to see on-screen the status of the component (H for high or L for low)... you can toggle the actuator or otherwise activate the switch or sensor you're trying out and see if the status of the component changes on-screen. Press ‘Stop’ button to stop the current test. When you're done, press ‘Close’ to leave the Component Control screen.

Below is an abbreviated list of the component codes. There were simply too many codes to include. The ones which are missing were either relating to peripherals such as the finishers, or the description for the component was too ambiguous to be of use. The list is followed by a quick run-down of what some of the acronyms stand for.

## Input Component Codes:

<u>Code</u>	<u>Description</u>
005-102	Document Sensor
005-110	Document Regi Sensor _ Belt DADF and CVT
005-115	Document Exit Sensor
005-119	Document Duplex Sensor
005-150	Document Size Sensor #1
005-151	Document Size Sensor #2
005-202	Document Feeder Bottom Sensor
005-203	Document Feeder Level Sensor
005-204	Document Feeder Feed Sensor
005-205	Document Feed-out Sensor
005-206	Document Pre-registration Sensor
005-207	Document Lead Registration Sensor
005-208	Document out Sensor
005-209	Document Exit Sensor #1
005-210	Document Exit Sensor #2
005-211	Document Invert Sensor
005-212	Feeder Cover Interlock Switch
005-213	Document Feeder Platen Interlock Switch
005-214	Document Tray Interlock Sensor
005-215	DADF #1 tray APS sensor
005-216	DADF #2 tray APS sensor
005-217	DADF #3 tray APS sensor
005-218	DADF #1 APS sensor
005-219	DADF #2 APS sensor
005-220	DADF#3 APS sensor
005-221	DADF tray size sensor #1
005-222	DADF tray size sensor #2
005-223	DADF Left hand cover interlock switch
005-224	DADF Scan start Sensor
005-225	DADF Nudger position sensor
005-226	DADF #2 invert sensor
005-300	DADF Platen interlock switch
005-301	DADF Top cover interlock switch
010-200	Fuser entrance sensor
010-201	Fuser exit sensor
010-202	Detection of a new fuser CRU
010-203	Fuser nip sensor

014-100	Xport entrance sensor
014-101	Buffer path sensor
014-102	Gate sensor
014-110	Registration clutch on
014-111	IOT exit sensor
014-115	Top exit tray sensor
014-150	Compile exit sensor
014-151	Compile tray no paper sensor
014-190	Decurler-in sensor
014-191	Decurler-out sensor
014-200	Side registration sensor_1
014-201	Side registration sensor_2
061-200	Polygon motor 1 ready
061-201	Polygon motor 2 ready
062-212	IIT (scan) registration sensor
062-240	DADF present
062-251	APS sensor 1
062-253	APS sensor 2
062-272	Scan start
062-300	Platen interlock switch
062-301	Angle sensor
071-100	Tray 1 pre feed sensor
071-101	Feed out sensor 1
071-200	Tray 1 stack height sensor
071-201	Tray 1 no paper sensor
071-202	Tray 1 size select
072-100	Tray 2 pre feed sensor
072-101	Feed out sensor 2
072-200	Tray 2 stack height sensor
072-201	Tray 2 no paper sensor
072-202	Tray 2 size select
073-100	Tray 3 pre feed sensor
073-101	Feed out sensor 3
073-200	Tray 3 stack height sensor
073-201	Tray 3 no paper sensor
074-100	Tray 4 pre feed sensor
074-101	Feed out sensor 4
074-200	Tray 4 stack height sensor
074-201	Tray 4 no paper sensor
075-100	MSI (bypass) pre feed sensor



075-200	MSI (bypass) stack height sensor
075-201	MSI (bypass) lift down sensor
075-202	MSI (bypass) no paper sensor
075-203	MSI (bypass) paper set sensor
077-100	Pre registration sensor
077-101	Registration sensor
077-102	OHP (transparency) sensor
077-103	Invert in sensor
077-104	Duplex in sensor
077-105	Duplex path sensor
077-106	Duplex out sensor
077-107	IOT exit sensor
077-108	MSI pre regi sensor
077-203	Invert End sensor
077-300	Left hand cover interlock
077-301	Right hand cover interlock
077-302	Transfer module 2 interlock
077-303	Front cover interlock
077-304	MSI (bypass) cover interlock
078-100	HCF (Hi Capacity Feeder) 1 pre feed sensor
078-101	HCF 1 feed out sensor
078-200	HCF 1 no paper sensor
078-201	HCF 1 stack height sensor
078-202	HCF 1 size sensor A
078-203	HCF 1 size sensor B
078-204	HCF 1 tray in sensor
078-300	HCF 1 transport interlock
078-301	HCF 1 side out switch
091-200	Waste toner bottle present sensor
091-201	Waste toner bottle near full sensor
091-202	Charge Scorotron fuse current signal
093-200	Low toner sensor Y
093-201	Low toner sensor M
093-202	Low toner sensor C
093-203	Low toner sensor K
093-205	Dispense cover sensor
093-206	Marking drawer interlock
094-200	1st BTR retract sensor
094-201	2nd BTR retract sensor
094-202	Post 2nd BTR sensor

**Acronym interpretations:**

BCR = Bias Charge Roll (from color drum ctg)  
 BTR = Bias Transfer Roll  
 CC = charge Corona (on black drum cartridge)  
 CCD = Charge Coupled Device (turns image into  
 CVT = Constant Velocity Transport  
 DADF = Duplexing Automatic Document Feeder  
 HCF = High Capacity Feeder  
 IBT = Image Belt Transfer  
 IIT = Image Input Terminal (scanning section of machine)  
 IOT = Image Output Terminal (printing section of  
 machine)  
 IPS = Image Processing  
 J- tra = 'J' Transport  
 MOB = Marks On Belt  
 MSI = Multiple Size Input (Bypass Tray)  
 OCT = Oscillating Catch Tray  
 V-tra = Vertical Transport

**Output Component Codes:**

<u>Code</u>	<u>Description</u>
005-001 Thru 005-010	CVT - DADF feed motor _ speed 1 thru 10
005-011	Document Set gate solenoid open
005-012	Document Set gate solenoid close
005-014	CVT - DADF feed motor _ reverse
005-015 Thru 005-025	CVT - DADF pre reg motor _ speed 1 thru 11
005-026 thru 005-035	CVT - DADF reg motor _ speed 1 thru 10
005-036	CVT - DADF reg motor _ reverse
005-037 038/039	CVT - DADF platen motor _ speed 1/2/3
005-040	DADF feed motor
005-041 Thru 005-047	CVT - DADF platen motor _ speed 4 thru 10
005-048 Thru 005-054	CVT - DADF exit motor _ speed 1 thru 7
005-055	Document Belt motor non CVT mode_CW
005-057 Thru 005-061	CVT - DADF exit motor _ speed 8 thru 12
005-062	CVT - DADF feed clutch
005-063	Document Nudger solenoid down
005-065	Document Baffle solenoid close
005-067	Simplex/duplex gate solenoid duplex open
005-068	Simplex/duplex gate solenoid simplex open
005-069	Document Exit gate solenoid

005-070	Document Nip release solenoid_PF1
005-073	CVT-DADF stamp solenoid
005-074	CVT-DADF feed motor
005-075	Regi gate solenoid
005-081	Exit motor non CVT mode
005-083	Document ready
005-084	Document set LED
005-086	Document Tray lift up
005-090	Document Nudger initialize
010-001	Fuser motor _ 320 mm/s
010-007	Heat roll main lamp 1
010-008	Heat roll main lamp 2
010-009	Heat roll sub lamp
042-001	Main motor_320 mm/s
042-005	Drum motor K_320 mm/s
042-009	Drum motor YMC_220 mm/s
042-012	IBT drive motor_320 mm/s
042-016	IBT steering motor (CW) High current
042-018	IBT steering motor (CW) Low current
042-020	Fuser exhaust fan_high speed
042-021	Blower motor_high speed
042-023	CC intake fan_high speed
042-026	V_tra fan_high speed
042-028	Invert front fan and dup fan
042-029	Exit roll fans
042-030	IBT Belt check_320 mm/s
042-034	Rear cooling fan
042-035	IBT steering motor reset
061-001	Polygon motor 1_high speed
061-004	Polygon motor 2_low speed
061-005	LASER 1_high speed
061-007	LASER 2_high speed
062-002	IIT exposure lamp
062-005	IIT scan motor_scan direction
062-006	IIT scan motor_return direction
062-014	IPS cooling fan_high speed_PF1
062-015	Lamp cooling fan_PF1
062-017	Ccd cooling fan
062-086	IIT image area
071-001	Tray 1 pre feed

071-002	Tray 1 feed
071-004	Tray 1 lift up
072-001	Tray 2 feed
072-002	Tray 2 lift up
073-001	Tray 3 feed
073-002	Tray 3 lift up
074-001	Tray 4 feed
074-002	Tray 4 lift up
075-001	MSI (bypass) feed motor_300 mm/s
075-002	MSI (bypass) feed motor_220 mm/s
075-003	MSI nudger solenoid_high current
075-004	MSI nudger solenoid_low current
075-005	MSI lift motor up (CW) sensor stop
075-006	MSI lift motor down (CCW) sensor stop
077-001	Take away motor
077-002	Take away clutch 1
077-003	Take away clutch 2
077-004	Pre regi motor_640 mm/sec
077-006	Pre regi motor_220 mm/sec
077-007	Regi motor_430 mm/sec
077-010	Exit motor
077-011	Invert solenoid_gate in
077-012	Invert solenoid_gate exit
077-013	Invert motor_450 mm/s_invert direction
077-014	Invert motor_350 mm/s_exit direction
077-015	Invert motor_640 mm/s_dup path direction
077-016	Invert solenoid
077-018	Duplex motor
077-019	Invert gate In and invert gate exit cycle
078-001	HCF 1 nudger solenoid_low power
078-002	HCF 1 nudger solenoid_high power
078-003	HCF 1 feed motor_feed direction
078-004	HCF 1 feed motor_lift up direction
078-005	HCF 1 Takeaway motor_242 mm/sec
089-001	MOB LED: High power
089-002	MOB LED: Low power
091-001	Erase lamp YMC
091-002	Erase lamp K
091-007	Scorotron
091-008	Pre Charge Corotron (PCC)

091-009	BCR Scorotron cleaner mot_1400PPS (CW) hi current
092-001	ADC specular
092-002	ADC Diffuse
092-004	ADC shutter open
092-005	ADC shutter close
093-001	Toner cartridge motor_Y
093-002	Toner cartridge motor_M
093-003	Toner cartridge motor_C
093-004	Toner cartridge motor_K1
093-005	Toner cartridge motor_K2
093-006	Dispense motor_Y
093-007	Dispense motor_M
093-008	Dispense motor_C
093-009	Dispense motor_K
093-010	Developer bias DC_Y
093-011	Developer bias AC_Y, M, C
093-012	Developer bias DC_M
093-014	Developer bias DC_C
093-016	Developer bias DC_K
093-017	Developer bias AC_K
093-019	Developer motor_220 mm/s
093-022	Developer clutch
093-023	Developer K rotation at 220 mm/s process speed
093-024	Developer YMC rotation at 220 mm/s process speed
094-001	1st BTR contact
094-002	1st BTR retract
094-003	2nd BTR contact
094-004	2nd BTR retract
094-005	2nd BTR retract clutch

These are friendly to technicians in nearly every way possible. The exception as mentioned earlier is that you actually need to know which 6 digit code you want to run. Even the Service Manual fails to provide lists. Fortunately if you pick through the RAP's (repair analysis procedures), the manual does give you suggestions as to which codes to use to test sensors, motors, etc. They will also usually (not always) tell you if a particular NVM setting needs to be changed back to "0" to clear the Fault Condition.

As you look through the list, you will find that while some of the codes are useful in very specific circumstances, the most important ones revolve around resetting specific Fault Code conditions. These Fault Conditions will not reset automatically... the machine will not even attempt to get going till a related Memory code is reset. Some are flags which are either 0 or 1 depending on if the fault condition exists or not, and others count up to 3 at which point the machine shuts down and needs that memory setting to be reset back to "0".

**Extremely important:** Part of the reason the machines "lock up" until certain fault codes are cleared is because a tech needs to come and repair the cause of the fault. It is very unwise to allow a customer to keep running a machine calling one of these faults, by constantly resetting the codes. That would have the potential to cause more trouble and possibly damage to the machine. Do not ignore the cause of the fault codes... Always get the problem solved before you get into resetting things... If you're the owner of a machine, don't reset the code... wait for the technician. Let them fix the problem and then let them reset the fault code.

Here's how to get into Diagnostic Mode, and how to use "NVM Read / Write".

6. **Diagnostic Entry: For DC240/242/250/252/260:** Hold down the '0' button for 5 full seconds and then while still holding the '0', press 'Start'. A prompt for a password will show up (the "CE Access Number"). Use the default password '6789', and press 'Confirm'.

**For most WC-7655/7665/7675's (some of them with earlier software work like the DC250 above) & also for WC-7755/7765/7775:** Hold down together '\*', '#', & 'Stop' until the "CE Access Number" screen prompts you for a password. Then use the default password: '6789' followed by 'Confirm'.

7. Press the "Log-in / Log-out" button... then on the touchscreen, touch "System Settings", followed by "Common Settings", and finally "Maintenance / Diagnostics".

8. Choose "Adjustments" from the menu which appears, then look for: "Dc131 NVM Read / Write".

9. Touch the first empty block to enter the "chain". The 1<sup>st</sup> three digits in an NVM code are called the "chain" and the second set of 3 digits are called the "Function". For example if the NVM code is '744-351' you will enter the "Chain" as '744' and the "Function" as '351'. Touch the "Read" button. The current setting will show up. Press "Val" to then change the value back to '0' and press 'Save'.

10. Finally when you exit diagnostics be sure to reboot the machine so the changes stick. Use the "Call Close" button.

We'll be leaving a huge number of NVM codes off of the list to follow. Many of the codes you may have thought you wanted such as registration adjustments are far more effectively managed by using the "Registration" or "Max Setup" (color registration) choices in the diagnostic menu. Note that where Fault Codes are mentioned, the first digit will be a "0" if the machine is in the DC family (example 042-326) or it will be a "3" if the machine is a WorkCentre 76xx (Example: Fault Code 042-326 in a DC250 will appear instead as 342-326 in a WC-7655).

Ok.. now to it! Here's the list

### **NVM (Non Volatile Memory) Codes:**

<b><u>Code</u></b>	<b><u>Description</u></b>	<b><u>Min</u></b>	<b><u>Max</u></b>	<b><u>Default</u></b>	<b><u>Details</u></b>
700-071	USB User Buffer Size	64	1024	64	1 step = 1 Kb, 32 Kb increments
700-078	Form Buffer Size	128	2048	128	1 step = 1 Kb, 32 Kb increments
700-081	Parallel (IEEE 1284) Buffer Size	64	1024	64	1 step = 1 Kb, 32 Kb increments
700-084	NetWare Buffer Size	64	1024	256	1 step = 1 Kb, 32 Kb increments
700-085	Apple Talk Buffer Size	64	1024	64	1 step = 1 Kb, 32 Kb increments

700-088	Saturation Buffer Size	64	1024	256	1 step = 1 Kb, 32 Kb increments
700-124	Auto clear and auto resume timer	0	240	60	
700-125	Job cancel timer	0	5940	600	
700-128	Scanning Timer	1	20	1	
700-129	Low Power Mode Timer	1	240	15	
700-142	Low Power Mode Enable	0	1	0	0=disabled, 1=enabled
700-143	Job Memory Entry Tone	0	3	2	0=off, 3=loudest
700-144	Auto Log Print Flag	0	1	0	0=off, 1=on
700-145	Report Duplex Print	0	1	0	0=off, 1=on
700-146	Mail Box Receive Report	0	1	1	0=off, 1=on
700-153	Out of Paper Alarm	0	1	1	0=off, 1=on
700-165	Country Code SEEPROM	0	65535	840	840=USA, 124=Canada, 76=Brazil, 826=UK, 276=Germany, 380=Italy, 250=France, 724=Spain, 528=Netherlands
700-166	Territory / Region	0	4	0	1=FX , 2=XC (U.S.), 3=XE, 4=AP
700-171	Service Engineer Tools Password				4-12 digits, ASCII
700-197	Max Number of Jobs	90	3000	600	
700-198	Job Passing (permitted or not)	0	1	1	0=Not Permitted, 1=Permitted
700-397	Default Print Paper Size	0	255	0	5=A4 (XE default), 44=Letter (XC default)
700-399	Millimeters vs. Inches	1	3	1	1=mm (XE default), 3=inch (XC default)
700-420	Software Download Inhibit / Permit	0	1	0	0=Permit, 1=Inhibit
700-446	HDD Security Overwrite Enable	0	1	1	0=disabled, 1=enabled
700-540	Auditron Mode	0	3	0	0=off, 1=Internal Auditron, 2=Network Accounting, 3=Remote/External
700-543	User Information Memory Location	0	1	0	0=NVRAM, 1=HDD
711-297	Communication Fault Bypass	0	1	0	0=Do not bypass Communication Faults, 1=Bypass (ignore) communication Faults
715-017	IIT (scanner) Fault Bypass	0	1	0	0=Do not bypass Scanner Faults, 1=Bypass (ignore) Scanner Faults
741-105*	Transfer Belt Home Position Fault (Clear fault 042-326 or 342-326)	0	3	0	0=Fault Clear
741-181	Fuser Exhaust Fan Fault Bypass	0	1	0	
741-192	Blower Motor Fault Bypass	0	1	0	
741-195	Suction Filter End of Life Message on / off	0	1	0	0=End of Life Warning enabled, 1=End of Life not shown

741-204	Rear Cooling Fan Fault Bypass	0	1	0	
742-228	Decurler present	0	1	1	0=No Decurler, 1=With Decurler
744-350*	Fuser Overtemp Fault History (Clear fault 010-320 or 310-320)	0	7	0	0=Fault Clear
744-351*	Differential Gain Fault History (Clear fault 010-319 or 310-319)	0	2	0	0=Fault Clear
744-352*	Fuser Fault History (Clear fault 010-324 or 310-324)	0	1	0	0=Fault Clear
744-354	Fuser End of Life Warning Count	0	500	200	200=200K pages
744-355	Fuser End of Life Count	0	500	210	210=210K pages
749-291	Lead Edge Erase for Color	0	100	40	1 step=0.1mm
749-292	Lead Edge Erase for Black / White	0	100	40	1 step=0.1mm
749-293	Trail Edge Erase for Color	0	100	40	1 step=0.1mm
749-294	Trail Edge Erase for Black / White	0	100	40	1 step=0.1mm
749-295	Side Edge Erase	0	100	30	1 step=0.1mm
751-105	Drum End of Life Count	0	255	60	1 step=1000 pages
751-449	Charge Corotron Life Counter	0	429496 7295	0	
752-084**	ADC Shutter Close Fault (Related to Faults 092-650 or 392-650)	0	1	0	
752-086	ADC Sensor Fault	0	1	0	
752-088	ADC Patch Fault for Yellow	0	1	0	
752-089	ADC Patch Fault for Magenta	0	1	0	
752-090	ADC Patch Fault for Cyan	0	1	0	
752-091	ADC Patch Fault for Black	0	1	0	
752-092	ADC Patch Fault Count for Yellow	0	65535	0	
752-093	ADC Patch Fault Count for Magenta	0	65535	0	
752-094	ADC Patch Fault Count for Cyan	0	65535	0	
752-095	ADC Patch Fault Count for Black	0	65535	0	
752-319**	ATC Failure - Yellow (Related to Faults 092-653 or 392-653)	0	1	0	0=reset
752-320**	ATC Failure - Magenta (Related to Fault 092-654 or 392-654)	0	1	0	0=reset
752-321**	ATC Failure - Cyan (Related to Faults 092-655 or 392-655)	0	1	0	0=reset
752-322**	ATC Failure - Black (Related to Faults 092-656 or 392-656)	0	1	0	0=reset
752-323**	ATC Output Fault Count for Yellow (Related to Faults 092-653 or 392-653)	0	65535	0	0=reset

752-324**	ATC Output Fault Count for Magenta (Related to Faults 092-654 or 392-654)	0	65535	0	0=reset
752-325**	ATC Output Fault Count for Cyan (Related to Faults 092-655 or 392-655)	0	65535	0	0=reset
752-326**	ATC Output Fault Count for Black (Related to Faults 092-656 or 392-656)	0	65535	0	0=reset
752-327**	ATC Amplitude Output Fault for Yellow (Related to Faults 092-657 or 392-657)	0	1	0	0=reset
752-328**	ATC Amplitude Output Fault for Magenta (Related to Faults 092-658 or 392-658)	0	1	0	0=reset
752-329**	ATC Amplitude Output Fault for Cyan (Related to Faults 092-659 or 392-659)	0	1	0	0=reset
752-330**	ATC Amplitude Output Fault for Black (Related to Faults 092-660 or 392-660)	0	1	0	0=reset
752-331**	ATC Amplitude Output Fault Count for Yellow (Related to Faults 092-657 or 392-657)	0	65535	0	0=reset
752-332**	ATC Amplitude Output Fault Count for Magenta (Related to Faults 092-658 or 392-658)	0	65535	0	0=reset
752-333**	ATC Amplitude Output Fault Count for Cyan (Related to Faults 092-659 or 392-659)	0	65535	0	0=reset
752-334**	ATC Amplitude Output Fault Count for Black (Related to Faults 092-660 or 392-660)	0	65535	0	0=reset
752-345**	IOT Temperature Sensor Fault (not in fuser... in the machine's body) (Related to Faults 092-661 or 392-661)	0	1	0	0=reset
752-357**	Humidity Sensor Fault (Related to Faults 092-662 or 392-662)	0	1	0	0=reset
752-358**	Humidity Sensor Fault Count (Related to Faults 092-662 or 392-662)	0	65535	0	0=reset
752-950**	ADC Shutter Open Fault (Related to Faults 092-649 or 392-649)	0	1	0	0=reset
762-274	Toner Status (Black - K2)	0	3	0	0=reset
762-275	Toner Status (Black - K1)	0	3	0	0=reset
762-276	Toner Status (Yellow)	0	3	0	0=reset
762-277	Toner Status (Magenta)	0	3	0	0=reset
762-278	Toner Status (Cyan)	0	3	0	0=reset

762-312*	Dispense Status (Yellow) (Clear Fault 093-314 or 393-314)	0	3	0	0=Fault Clear, 1 or 2 = normal, 3=Dispenser Broken
762-313*	Dispense Status (Magenta) (Clear Fault 093-315 or 393-315)	0	3	0	0=Fault Clear, 1 or 2 = normal, 3=Dispenser Broken
762-314*	Dispense Status (Cyan) (Clear Fault 093-316 or 393-316)	0	3	0	0=Fault Clear, 1 or 2 = normal, 3=Dispenser Broken
762-315*	Dispense Status (Black) (Clear Fault 093-317 or 393-317)	0	3	0	0=Fault Clear, 1 or 2 = normal, 3=Dispenser Broken
763-001	Output Configuration	0	5	0	0=OCT, 1=HHCSS Base Finisher, 2= HHCSS w/ Booklet Maker, 3=HCSS Base Finisher, 4=HCSS w/ Booklet Maker, 5=HCSS Mail Box Finisher

\* **Codes listed above with 1 asterisk...** these codes are confirmed necessary to reset specific fault codes (read below for a list of faults which definitely require resetting from the NVM.

\*\* **Codes listed with 2 asterisks...** it is unclear in the manual if these actually require resetting from the NVM Read / Write or not. Some of them will likely reset by turning the power off and back on. If a machine seems “locked up” because of one of the related faults, it’s worth looking at the NVM codes to see if any of them are no longer showing a value of “0” as they should.

**Fault Codes which require resetting from NVM Read / Write:**

**Remember to always solve the cause of the fault before resetting them in memory.**

- 010-319 (310-319) Fuser Heat Control Problem - resets with 744-351
- 010-320 (310-320) Fuser Overheat - resets with 744-350
- 010-324 (310-324) Fuser Failure - resets with 744-352
- 042-326 (342-326) Belt Hole Sensing Problem - resets with 741-105
- 093-314 (393-314) Toner Dispense Problem (Yellow) - resets with 762-312
- 093-315 (393-315) Toner Dispense Problem (Magenta) – resets with 762-313
- 093-316 (393-316) Toner Dispense Problem (Cyan) – resets with 762-314
- 093-317 (393-317) Toner Dispense Problem (Black) – resets with 762-315

**Differences & Similarities between the many models in this “Style”:**

Each new addition to the series brings new variations, while following closely on many of the strong points of the models which came before. We’ve covered the basic Technical Information of the early models, and explored the rebuilding procedures for the Drum Cartridges and Fuser Modules. Now it’s time we have a look at the new additions... We’ll focus first on the timeline of release dates for each “family” within this style. Then we’ll check out differences and similarities in the parts and supplies in particular.

**Chronology:** Below is a list of the families and approximately which year each group was introduced.

***(DC250 family): DocuColor 240/250:*** (2005) It all started with the lead off models... the first family and namesake of the DC250 style.

***(DC242 family): DocuColor 242/252/260:*** (2007) After a couple of years, the next family in the vanguard followed: DC242/252 and DC260. Aside from changes in software and electronic parts, these were largely identical to the DC240/250, however the DC260 model was only offered in a 220 volt machine. It was heavy duty, a little faster and naturally came with a higher price tag.

***(7655 family): WorkCentre 7655/7665/7675:*** (2007) The same year that the DC242/252/260 came out, Xerox also released the first group of WorkCentre models for this engine: WC-7655/7665/7675. The WorkCentres are not as robust as far as the logic and color printing accuracy as the DocuColors and they carried a lower price tag, (around the \$35K range as opposed to around \$50K) but they were extremely similar in most other ways including the fact



that the supplies were all the same as the DC240/250 (toner ctgs, drum ctgs, fuser, and most parts cross over perfectly).

**(7755 family): WorkCentre 7755/7765/7775:** (2010) (sold new starting around \$34K) A second wave of WorkCentre models... these followed their predecessors very closely.

**(DCP700 family): Digital Color Press 700:** (2011) (sold new starting around \$70K) Digital Color Press 700 / 700i (DCP700, also sometimes referred to as DC700) came next... this was a top of the line production model which was only made available in 220 volts. This machine is faster, and built for extremely accurate color production. The DCP700 introduced a lot of sneaky differences in parts when compared to its predecessors although the parts for rebuilding the cartridges and fusers remain the same thankfully.

**(550 family): Xerox Color 550 / 560 / 570:** (2012) (sells new starting around \$40K) The 550 family shares lots of parts with the DCP700 model although the supplies are unique part numbers as is the 110v fuser.

**(J75 family): Xerox Color J75 / C75 Press:** (2014) (sells new starting around \$70K) This newest family are on the high end of the spectrum... They are built for serious production and they boast a high speed (75 ppm). They are only offered in 220 volts and are likely to prove to be close in many ways to the DCP700.

Next let's look at the part numbers and differences between various supplies in the DC250 style. the yields reported in the Service Manuals are not consistent from model to model even if the part number of the supply is identical... the estimated yields given are taken from the earlier literature on the DC250 model which are lower stated yields than the newer models' literature. I am told that the yields are dependent on factors such as how many pages are run in an average job... machines which run lots of copies or prints per job will end up running higher yields for the drum ctgs before they "tine-out" than machines which run only a few pages per job.

### Supplies:

- **Toner Cartridges...** There are several versions of the toner cartridges depending on the model of the machine (the DC250, DC242, 7655, & 7755 families share the same ones with one another, but the 550 family has a unique set as does the DCP700 family... the J75 family shares the same toner ctgs with the DCP700 family). Also, for the newer models (DCP700, 550/560/570, & J75/C75), there are also several "markets" which require different toner cartridge part numbers. If you install the "wrong" version, the machine will reject the toner. There is a "Metered Plan" which can be found worldwide on machines which were initially set up to be under Service Contract. Then there is a "U.S. Sold Plan" and a "DMO Sold Plan". It can get pretty confusing for customers and dealers alike when dealing with off-lease machines which hit the secondary market. The newer models such as the DCP700 and 550/560 have low-melting temperature dry ink, so the toner material itself has changed over time. Best to stick to the exact part numbers you need for the model machine you're installing the toner cartridge in.



- **Color Drum Cartridges**  
013R00603 (for DC240/250, DC242/252, WC-7655/7665/7675, WC-7755/7765/7775) – Rebuild Kit = DC250CRK  
013R00632 (for DC260)... Interchangeable with 013R00603  
013R00656 (was 013R00643) (for DCP700/700i/770) – Rebuild Kit = DC700CRK  
013R00664 (for 550/560/570) – Rebuild Kit = 550CRK  
013R00672 (for J75 / C75) – Rebuild Kit = J75CRK

**Good News:** The Color Drum cartridges all use the same Drum, Blade, & Charge Roll and the DC250 rebuild instructional will serve for all of the cartridges. Each version has its own unique CRUM chip version, and all of the color ctgs. except the 013R00603 include a foam Cleaning Roll which helps keep the charge roll clean. (It is the CRUM alone which determines which model machine a cartridge is set up for).

for Drum Cartridge Rebuild Kits use the following part numbers:

- **Black Drum Cartridges [150K]**  
013R00602 (for DC240/250, DC242/252, WC-7655/7665/7675, WC-7755/7765/7775),



013R00631 (for DC260)... Interchangeable with 013R00602  
 013R00655 (formerly 013R00642) (for DCP700/700i/770)  
 013R00663 (for 550/560/570)  
 013R00671 (for J75 / C75)

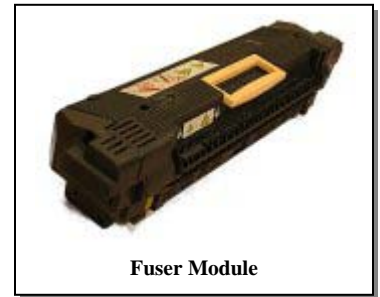
**More Good News:** The parts in the Black Drum cartridges also cross-over between all of the cartridge versions... except of course the CRUM chips.

- **Charge Corotrons:** [120K]  
 013R00630 / 013R00633 / 013R00604 / 013R00650 (interchangeable)
- **Toner Waste Container** [50K average]  
 008R12990 (fits all of the models mentioned here)
- **Fuser Assemblies:** [160K]  
 008R12988 (for DC240/242/250/252, WC-7655/7665/7675, 7755/7765/7775 – 110 volts in U.S.)  
 008R13102 (for 550 / 560 / 570 – 110 volts in U.S.)  
 008R13039 (for DC260 – 220 volts in U.S.)  
 008R13065 (for DCP700 – 220 volts in U.S.)  
 008R13146 (for J75 / C75 – 220 volts in U.S.)

**Even more Good News:** The Fuser Heat Roll, Pressure Sleeve and Fuser Reset Fuse all work throughout the first 4 versions of the fuser... confirmed... and it appears that the J75 version will also follow suit. There is one notable

difference on the J75 version... They've added some sort of little adjustment knob on the rear which is absent in all of the earlier models of the fusers. We've not yet figured out what its purpose is, but it makes it clear that you can not swap the complete fusers between the J75 and any other model.

- **Other Parts:** We don't know enough about the newest models yet (J75/C75), so let's leave those two out of the conversation for the time being. First let's check out a few parts which are the same throughout all of the families. The IBT Transfer Belt does not change, nor does the IBT Belt Cleaning Blade (though the Cleaner Assembly does have different part numbers). The Document Feeder parts and Paper Feed components have remained consistent. Next for some differences. The logic boards are different for each family (not surprisingly). There are two basic groups which share some parts within their group. The earlier models (DC240/242/250/252, WC-7655/7665/7675, & WC-7755/7765/7775) are the first group... The change happened with the introduction of the DCP700 and the 550/560/570. The 2<sup>nd</sup> BTR Assembly is a good example where there are two versions split between the two groups. Also, although the Developer Gear Kits (2 gears on the front end of the unit which are famous for shredding) are the same, the DV Units are sold under different part numbers and they are not believed to be interchangeable.



Fuser Module

### **System Administrator Mode from the Control Console:**

For any of these machines, you'll start by pressing the "Log-in/out" button (there are 3 buttons on the lower left of the control panel... the top one of the 3 is the correct button. Then enter a Username (if asked for one) and a Password as detailed below. If the default Username or Password are not accepted, you'll need to get the info from the customer.

**For DC240/242/250/252/260:** The default Username is '11111' (five 1's), & the default password is 'admin'.

**For 550/560/570, WC-7655/7665/7675, WC-7755/7765/7775, J75/C75:** If prompted for a Username, the default is 'admin' (older software only asks the password), & default Password is '1111' (four 1's).

**For DCP700:** Default Username is '11111' (five 1's), & default Password is 'x-admin'.

### **Logging in as Administrator from the Network:**

For any of these, someone must first browse to the machine's IP address using a browser in a workstation on the network. Below are default log-in details for each server type:

**For EFI Fiery (EX):** Click on the purple Key icon for the Administrator log-in. The default password is "Fiery.1" (capitalize the F & there's a dot between "Fiery" and "1").

**For Built-in Controller:** Default Username is 'admin' & the default Password is '1111'

**For Freeflow Server:** Default Password = 'administ'

**For Creo Spire (CX):** Default Username = 'operator', & default Password = 'spire'.

**For Splash (Mac OS):** The default Password is completely blank.