



Permanent Parameters

A guide to FRPO commands and default settings on Kyocera Mita printers

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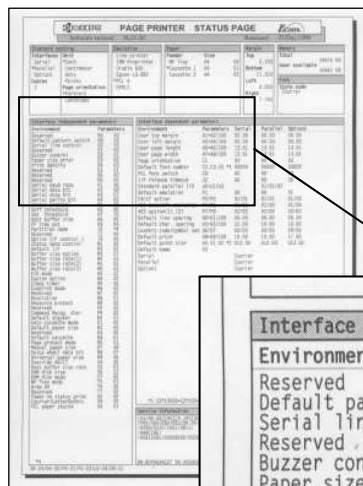
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FRPO Commands

FRPO is a Prescribe command that is used to change the fixed parameters or default values on the printer. These parameters are stored in non-volatile memory in the printer and are remembered even when the printer has been powered off.

Some FRPO parameters affect only the current interface (Interface-dependent) and some affect all interfaces at once (Interface-independent). If the printer is shared with other users, remember that any changes to any Interface-independent parameters will also affect the print jobs of other users.

The FRPO parameters are listed on the printer's Status Page, which can be accessed through the printer's control panel. Newer models have FRPO parameters listed on the Service Status Page.



Before changing any firmware parameters, first print a Service Status page. This can be used as a reference for the printer's original settings.

Interface independent parameters			Interface dependent parameters			
Environment	Parameters		Environment	Parameters	Serial	Parallel
Reserved	B0	00	User top margin	A1+A2/100	00.00	00.00
Default pattern switch	B8	00	User left margin	A3+A4/100	00.00	00.00
Serial line control	D0	00	User page length	A5+A6/100	13.61	13.61
Reserved	D1	00	User page width	A7+A8/100	13.61	13.61
Buzzer control	D2	01	Page orientation	C1	00	00
Paper size error	D3	00	Default font number	C2,C3,C5 *1	00000	00000
Print density	D4	03	PCL font switch	C8	00	00
Reserved	D5	01	I/F release timeout	J2	06	06
Reserved	D6	00	Standard parallel I/O	o0/o1/o2		01/01/02
Reserved	H0	00	Default emulation	P1	06	06
Serial baud rate	H1	96	CR/LF action	R/P3	01	01/01
Serial data bit	H2	08				
Serial stop bit	H3	01				
Serial parity bit	H4	00				

Parameter Value

Format

FRPO *parameter, value;*

Parameters

parameter Parameter stored in permanent memory (as it appears on the status page)

value New parameter value

Function

Each parameter is identified by a code consisting of a letter followed by a digit, such as P1 shown above. The FRPO command should be used only when it is necessary to change a parameter permanently. It should not be used for temporary changes in the middle of a printing job.

Changes made with FRPO commands can be reset to the factory-set values by the FRPO INIT command.

Note that the RES command does not reset those changes made with the FRPO command.

These default settings can also be over-riden by further commands from software and drivers. For example the default emulation set by FRPO P1 shown below can be over-riden by the SEM (set emulation) command.

Example

```
!R! FRPO P1,5; EXIT;
```

The above line when sent to the printer will set the power up emulation (P1) to Epson LQ(05).

To send the command from a DOS prompt via the parallel port the command line would be:

```
ECHO !R! FRPO P1,5; EXIT; >LPT1
```

Multiple FRPO commands can be placed in the same line:

```
ECHO !R! FRPO P1,5; FRPO R3,1; EXIT; >LPT1
```

FRPO Alphabetical List

A1 / A2	Top user margin	Page 9
A3 / A4	Left user margin	Page 9
A5 / A6	Page length user	Page 9
A7 / A8	Page width user	Page 9
B0	Compressed download fonts	Page 8
B8	Pattern resolution	Page 4
C0	Copy count	Page 4
C1	Page orientation	Page 5
C2	Default font number	Page 8
C3	Default font number	Page 8
C5	Default font number	Page 8
C8	PCL font switch	Page 8
C9	Option font (FR-1)	Page 8
D0	Serial I/O control	Page 10
D1	Full page print	Page 9
D2	Buzzer mode	Page 4
D3	Paper size error	Page 5
D4	Print density	Page 4
D5	Service page print	Page 4
D6	Paper jam recovery	Page 4
G0	KCGL option	Page 8
G1 – G8	KCGL pen width	Page 8
H0	Buffer size rate hard disk	Page 10
H1	Baud rate	Page 10
H2	Data bits	Page 10
H3	Stop bits	Page 10
H4	Parity	Page 10
H5	Protocol logic serial	Page 11
H6	XOFF Buffer nearly full	Page 11
H7	XON Buffer nearly empty	Page 11
H8	Buffer size	Page 10
H9	Form feed timeout	Page 4
I0	Memory card partition	Page 4
I1	Event log	Page 4
I4	Halftone Table	Page 4
I5	Sleep timer On/Off	Page 4
I7	End-of-job (Option 2)	Page 10
I8	End-of-job (Option 1)	Page 10
J0	Reduce / enlarge rate	Page 5
J2	I/F release time-out	Page 10
J9	KCGL enlarge rate	Page 8
L1 / L2	Top hard margin	Page 9
L3 / L4	Left hard margin	Page 9
L5 / L6	Bottom hard margin	Page 9
L7 / L8	Right hard margin	Page 9
M1	Status send control	Page 10
M2	Default Interface	Page 10
M3	Buffer size option	Page 10
M4	Buffer size (1)	Page 10
M5	Buffer size (2)	Page 10
M6	Buffer size (3)	Page 10
M7	Buffer size (4)	Page 10
N0	KIR mode	Page 4
N4	Duplex mode	Page 7
N5	Sleep Timer	Page 4
N6	Ecoprint mode	Page 4
N7	Duplex feed mode	Page 7
N8	Resolution	Page 4
N9	PCL resource protection	Page 4
O0	Interface mode	Page 10
O1	Parallel ACK position	Page 10
O2	Line control in high-speed	Page 10
P0	LCD message language	Page 4
P1	Default Emulation	Page 8
P2	CR action	Page 8
P3	LF action	Page 8
P4	AES – Auto Emulation	Page 8
P5	Alternative emulation	Page 8
P7	AES option 1	Page 8
P8	AES option 2	Page 8
P9	Command character	Page 4
R0	Default stacker	Page 7
R1	Auto cassette	Page 7
R2	Default paper size	Page 5
R3	HP margin lock	Page 9
R4	Default cassette	Page 7
R5	Raster memory size	Page 4
R6	Parallel line control	Page 10
R7	Manual paper size	Page 5
R8	Daisy wheel data length	Page 8
R9	Universal paper size	Page 5
S0	Multi-tray mode	Page 7
S1	Sorter mode	Page 7
S2	Sorter message mode	Page 7
S3	Sorter tray capacity	Page 7
S4	A4 / Letter size override	Page 5
S5	Buffer size rate	Page 10
S6	RAM disk size	Page 4
S7	RAM disk mode	Page 4
S8	Job separator (Jog)	Page 7
S9	Serial barcode mode	Page 11
T0	Auto manual feed	Page 7
T1	Tray 1 paper size	Page 5
T2	Tray 2 paper size	Page 5
T3	“Others” paper size	Page 5
T6	Wide A4	Page 5
T7	Toner Management	Page 4
T8	MP Tray direction	Page 5
T9	Paper Type	Page 5
U0 / U1	Lines per inch	Page 9
U2 / U3	Characters per inch	Page 9
U5	Status page print	Page 5
U6	Country	Page 9
U7	Code set – Daisywheel	Page 9
U8 / U9	Default scalable font pitch	Page 9
V0	Scalable font point size	Page 9
V1	Scalable font point size	Page 9
V2	Scalable font point size	Page 9
V3	Scalable font name	Page 9
V9	Courier style	Page 9
W0	MP Tray media FS-5800c	Page 5
W1	Colour Mode	Page 11
W2	Print quality FS-5800c	Page 11
W3	Vivid Mode	Page 11
W4	RGB simulation	Page 11
W5	Ink simulation	Page 11
X0	Paper type - MP tray	Page 6
X1 – X6	Paper type – cass 1 to 6	Page 6
X7	Paper type setting EF-1	Page 6
X8	MP Tray size error	Page 6
X9	PCL paper source	Page 6
Y0	Auto Continue Mode	Page 5
Y1	Auto Continue Timer Value	Page 5
Y2	On Demand Heater	Page 5
Y3	Finisher Error Message	Page 5

FRPO Parameters and values by group

As this document covers the complete range of Kyocera printers, some parameters listed here may not be available, and some default values may be different due to firmware versions or model variations. Many of these parameters can also be changed through the printer's control panel as shown in the tables.

Some of the parameters listed below are described in more detail in the following references:

- *1 Prescribe IIe Programming Manual, Chapter 5, which can be found on any Printer Driver CD.
- *2 Page reference found in this manual.

Printer Setup

	Parameter	Value	Factory Setting	Reference	Front panel
Default pattern Resolution	B8	0: 300 dpi 1: 600 dpi 3: 1200 dpi	0		Y
Copy count	C0	Number of copies to print 1 - 999	1		Y
Buzzer mode	D2	0: Off 1: On	1		Y
Print density	D4	Value from 1 (light) to 5 (dark) Not used where Media Type is available	3	*2 Page 18	Y
Service page print after toner out	D5	0: Not printed 1: Printed automatically	0		
Paper jam recovery	D6	0: Normal – page is reprinted 4: Page not reprinted after paper jam	0		
Form feed timeout	H9	In 5 second blocks 0 – 99	6		Y
Memory card partition name	I0	Partition name on IC card read automatically on power up.	-	*1 5 - 5	
Event log	I1	0: Only available by "ELOG" command 1: Available from front panel	0	*2 Page 20	
Halftone Table (FS-9100/9500)	I4	0: Use Existing Halftone table 7: Use Modified Halftone table Default is 7 for f/w 72.10 and above	7		
Sleep Timer (FS-1800/3800)	I5	0: Off 1: On	1		Y
KIR mode (Off / On only on some models)	N0	0: Off 1: Light 2: Medium or On 3: Dark	2		Y
Sleep Timer	N5	Value in units of 5 minutes 0 – 24 (0 to 120 minutes)	6		Y
Ecoprint mode (Off / On only on some models)	N6	0: Off 1: Light 2: Medium or On 3: Dark	0		Y
Resolution	N8	0: 300 dpi 1: 600 dpi 3: 1200 dpi	1		Y
PCL resource protection	N9	0: Off 1: Protects permanent PCL 2: Protects permanent and temporary PCL resources	0	*2 Page 14	Y
LCD message language	P0	0: English 1: French 2: German 3: Danish 4: Swedish 5: Italian 6: Spanish	0		Y
Command recognition character	P9	ASCII code 33 to 99	82 (R)		
Raster memory size	R5	1: 129 kb 2: 256 kb 3: 512 kb 4: A4 / Letter 5: Legal 6: Duplex A4 / Letter 7: Duplex Legal	1	1 – 3: Auto 4 – 7: On	*2 Page 15
RAM disk size	S6	1 to 99 Mb	12	*2 Page 16	Y
RAM disk mode	S7	0: Disable 1: Enable	0	*2 Page 16	Y
Toner Management	T7	0: Off 2: On for very low density printing	0	*2 Page 16	

Status page print at power-up	U5	0: Not printed 1: Printed automatically	0		
Auto Continue Mode	Y0	0: Off 1: On	1	*2 Page 19	Y
Auto Continue Timer	Y1	0 to 99 seconds	0	*2 Page 19	Y
On Demand Heater	Y2	0: Display to READY – Heater off 1: Display to READY – Heater on	0		
Finisher Error Message (FS-9100/9500)	Y3	0: Display Error Warning Message only 2: Stop when out of Staples 4: Stop when Punch Waste is full 6: Stop when out of Staples or Punch Trash is full	0		Y

Page Setup

	Parameter	Value	Factory Setting	Reference	Front panel
Page orientation	C1	0: Portrait 1: Landscape	0		Y
Paper size error	D3	0: Off 1: On (Not with Media Type X8)	0		
Reduce / enlarge rate (A3 models only)	J0	0: 100% 4: 61% A3 to B5 5: 70% A3 to A4 6: 81% B4 to A4 7: 86% A3 to B4 A4 to B5 8: 94% A4 to letter 9: 98% 20: 115% B5 to A4 B4 to A3 21: 122% A4 to B4 22: 141% B5 to B4 A4 to A3 23: 163% B5 to A3	0		Y
Default paper size	R2	0: Size of default cassette (See R4) 1: Monarch (3 ⁷ / ₈ " x 7 ¹ / ₂ ") 2: Business (4 ¹ / ₈ " x 9 ¹ / ₂ ") 3: International DL (11 x 22cm) 4: International C5 (16.2 x 22.9cm) 5: Executive (7 ¹ / ₄ " x 10 ¹ / ₂ ") 6: Letter (8 ¹ / ₂ " x 11") 7: Legal (8 ¹ / ₂ " x 14") 8: A4 (21 x 29.7 cm) 9: B5 (18.2 x 25.7 cm) 10: A3 (29.7 x 42 cm) 11: B4 (25.7 x 36.4 cm) 12: Ledger (11 x 17") 13: A5 (14.8 x 21 cm) 14: A6 (10.5 x 4.8 cm) 15: B6 (12.85 x 18.2 cm) 16: Commercial 9 (3 ⁷ / ₈ " x 8 ⁷ / ₈ ") 17: Commercial 6-3/4 (3 ⁵ / ₈ " x 6 ¹ / ₂ ") 18: International B5 (17.6 x 25 cm) 19: Custom 30: C4 31: Hagaki 32: Ofuku-Hagaki	0		
Manual paper size	R7	Same as R2 except 0: 0: Maximum paper size	8		Y
Universal paper size	R9	Same as R2 except 0: 0: A4	0		Y
A4 / Letter size override	S4	0: Off 1: On	0		Y
Tray 1 paper size (FS-600/680/800) (FS-1000)	T1	Internal Cassette Same as R2	8		
Tray 2 paper size (FS-600/680/800) (FS-1000)	T2	Option Cassette Same as R2	8		
"Others" paper size (FS-600/680/800)	T3	0: A5 1: B5	0		
Wide A4	T6	0: Normal 1: 8" page width (PCL and LQ modes)	0	*2 Page 13	Y
MP Tray direction (FS-7000/+9000)	T8	0: Lengthwise 1: Widthwise	1		

Paper Type (Excluding printers with Media Type)	T9	0: Normal 1: Thick 2: Thin (FS-6700 only) 3: Extra Thick (FS-6700 only)	0	*2 Page16	Y
MP Tray media FS-5800c	W0	0: Normal 1: Transparency 2: Label	0		Y
Paper type setting MP tray (PCL6 printers)	X0	1: Plain 2: Transparency 3: Pre-printed 4: Label 5: Bond 6: Recycle 7: Vellum 8: Rough 9: Letterhead 10: Color 11: Pre-punched 12: Envelope 13: Cardstock 21: Custom1 22: Custom2 23: Custom3 24: Custom4 25: Custom5 26: Custom6 27: Custom7 28: Custom8	8	*2 Page 18	Y
Paper type setting Paper cassettes 1 to 6 (PCL6 printers)	X1 – X6	1: Plain 3: Pre-printed 5: Bond 6: Recycle 8: Rough 9: Letterhead 10: Color 11: Pre-punched 21: Custom1 22: Custom2 23: Custom3 24: Custom4 25: Custom5 26: Custom6 27: Custom7 28: Custom8	1	*2 Page 18	Y
Paper type setting Envelope feeder EF-1 (PCL6 printers)	X7	1: Plain 3: Pre-printed 4: Label 5: Bond 6: Recycle 8: Rough 9: Letterhead 10: Color 11: Pre-punched 12: Envelope 13: Cardstock 21: Custom1 22: Custom2 23: Custom3 24: Custom4 25: Custom5 26: Custom6 27: Custom7 28: Custom8	8	*2 Page 18	Y
MP Tray size error	X8	0: Error if paper size is different from data 1: Error ignored	0		
PCL paper source (PCL6 printers)	X9	0: Switch to same paper type when empty 1: Cassette not switched when empty	0	*2 Page 18	

Paper Feed / Stack Options

	Parameter	Value	Factory Setting	Reference	Front panel
Duplex mode	N4	0: Simplex mode 1: Long-edge binding 2: Short-edge binding	0		Y
Duplex feed mode	N7	0: Conventional, back to front 1: Reverse, front to back 2: Conventional, manual 3: Reverse, manual	0		
FS-9100 / 9500		8: Faster duplex when RA-1 is not fitted			
Default stacker	R0	1: Face-down tray 2: Face-up tray 3: Sorter / stacker tray	0		Y
Auto cassette All models	R1	0: Cassette not switched when empty 1: Printer's cassette and upper cassette 2: Between upper and lower cassettes 3: Printer's cassette and lower cassette 4: Between all cassettes 99: Switched according to page size command in data	0		
FS-7000 / + / 9000		0: Cassette not switched when empty 1: Cassettes 1 and 2 2: Cassettes 3 and 4 3: Cassettes 5 and 6 4: Cassettes 1 through 4 5: Cassettes 3 through 6 6: Cassettes 1, 2, 5 and 6 7: Cassettes 1 through 6 The following values switch cassettes of the same paper size. 11: Cassettes 1 and 2 12: Cassettes 3 and 4 13: Cassettes 5 and 6 14: Cassettes 1 through 4 15: Cassettes 3 through 6 16: Cassettes 1, 2, 5 and 6 17: Cassettes 1 through 6 99: Switched according to the page size command in data (The R1 parameter is ignored if the PSRC 100; command is issued)	0	*2 Page 15 Refer to X9	
Default cassette	R4	0: Manual feed / Multi-purpose tray 1: Printer's cassette / cassette 1 2: Upper option cassette / cassette 2 3: Lower option cassette / cassette 3 4: Envelope / universal feeder Cassette 4 for FS-7000/7000+/9000 5: Cassette 5 6: Cassette 6 99: Envelope / universal feeder on FS-7000 / + / 9000	1		Y
Multi-tray mode	S0	0: Single user 1: Multiple users 2: Multiple interfaces	0		
Sorter mode	S1	0: Sorter 1: Collator 2: Stacker (not on FS-1800/3800) 3: Mail box	0		
Sorter message mode	S2	0: Active "Remove sorter paper" message 1: Active only on power-up 2: Deactivated	0		
Sorter tray capacity	S3	Value from 5 to 50 (0-250 FS-1800/3800)	50 (250)		
Job separator (Jog)	S8	0: Offset all 1: Offset 1 st page only	0		
Auto manual feed	T0	0: Cassette mode 1: Always feeds first if paper present 2: Manual feed – user intervention required on each page	1		Y

Emulation

	Parameter	Value	Factory Setting	Reference	Front panel
KCGL option	G0	0: 0: Mode A; formfeed to SP0 1: 1: Mode B; formfeed to SP0 2: 2: Mode A; no formfeed to SP0 3: 3: Mode B; no formfeed to SP0 4: 4: Fixed mode A; formfeed 5: 5: Fixed mode B; formfeed 6: 6: Fixed mode A; no formfeed 7: 7: Fixed mode B; no formfeed 8: 8: Mode A; formfeed 9: 9: Mode B; formfeed 10: 10: Mode A; no formfeed 11: 11: Mode B; no formfeed 12: 12: Fixed mode A; formfeed 13: 13: Fixed mode B; formfeed 14: 14: Fixed mode A; no formfeed 15: 15: Fixed mode B; no formfeed	0		
KCGL pen width	G1 – G8	Pen size in dots (0 to 99)	01/02/03/04/ 05/06/07/08		Y
KCGL enlarge rate	J9	0: Off 1: A2 2: A1 3: A0 4: B3 5: B2 6: B1 7: B0	0		Y
Default Emulation	P1	0: Line Printer 1: IBM Proprinter X24E 2: Diablo 630 5: Epson LQ-850 6: HP LaserJet 8: KC-GL (HP 7475A) 9: KPD L (Postscript)	6		Y
CR action	P2	0: Ignored 1: CR 2: CR + LF	1		Y
LF action	P3	0: Ignored 1: LF 2: LF + CR	1		Y
AES (KPD L Auto emulation sensing)	P4	0: AES disabled 1: AES enabled	0	*1 5-9	Y
Alternative emulation	P5	Same as P1 except that 9 is ignored	6	*1 5-9	Y
AES option 1 KPD L page eject commands	P7	0: All page eject commands 1: None 2: All page eject and Prescribe EXIT commands 3: Prescribe EXIT command 4: ^L command 6: Prescribe EXIT and ^L commands	2		
AES option 2 Emulation after receiving !R! command	P8	0: Current emulation 1: Default emulation (P1) 2: Alternate emulation (P5)	2		
Daisy wheel data length	R8	7: 7 - bit 8: 8 - bit	7		

Font

	Parameter	Value	Factory Setting	Reference	Front panel
Download font mode FS-1000	B0	0: Download font stored uncompressed 1: Download font stored compressed	0		
Default font number	C5	First two digits of power-up font	00	*1 5-2	Y
C5 * 10000 + C2 * 100 + C3	C2	Middle two digits of power-up font	00	*1 5-2	Y
	C3	Last two digits of power-up font	01	*1 5-2	Y
PCL font switch	C8	0: Excluding KPD L including Bitmap 1: Excluding KPD L & Bitmap 2: Including KPD L & Bitmap 3: Including KPD L excluding Bitmap	0	*1 5-3	
Option font (FR-1)	C9	0: Fonts are not available for use in KPD L 1: Fonts are available for use in KPD L	0		Y

Lines per inch	U0 / U1	U0 + U1/100	6		
Characters per inch	U2 / U3	U2 + U3/100	10		
Country	U6	0: US 1: France 2: Germany 3: UK 4: Denmark 5: Sweden 6: Italy 7: Spain 8: Japan 9: US Legal 10: IBM PC-850 (Multilingual) 11: IBM PC-860 (Portuguese) 12: IBM PC-863 (Canadian French) 13: IBM PC-865 (Norwegian) 14: Norway 15: Denmark 2 16: Spain 2 17: Latin America	0	*1 5-4 *2 Page 17 HP LaserJet symbol table	Y
Code set Daisywheel emulation	U7	0: Same as Emulation mode 1: IBM 2: Daisywheel 5: Epson LQ-850 6: HP Roman-8	0	*2 Page 17	Y
Default fixed space scalable font pitch	U8 / U9	U8 + U9/100 (0 – 99.99)	10		
Default scalable font point size	V0	Value in 100 points (0 – 9)	0		Y
	V1	Unit value (0 – 99)	12		Y
V0*100+V1+V2/100	V2	Value in 1/100 points (0, 25, 50 or 75)	0		Y
Default scalable font name	V3	Name of typeface (up to 32 characters)	-		Y
Courier / Letter Gothic style	V9	0: Both Dark 1: Courier - regular Letter Gothic - dark 4: Courier - dark Letter Gothic - regular 5: Both regular	0 (5)		Y

User Margins

	Parameter	Value	Factory Setting	Reference	Front panel
Top (inches)	A1 / A2	A1 + A2/100	00.00		
Left (inches)	A3 / A4	A3 + A4/100	00.00		
Page length (inches)	A5 / A6	A5 + A6/100	13.61		
Page width (inches)	A7 / A8	A7 + A8/100	13.61		

Hard Margins

	Parameter	Value	Factory Setting	Reference	Front panel
Full page print	D1	0: Disabled 1: Full page print in HP mode	0	*2 Page 12	
Top (inches)	L1 / L2	L1 + L2/100	*Note 1	*2 Page 12	
Left (inches)	L3 / L4	L3 + L4/100	*Note 1	*2 Page 12	
Bottom (inches)	L5 / L6	L5 + L6/100	10.61	*2 Page 12	
Right (inches)	L7 / L8	L7 + L8/100	08.11	*2 Page 12	
HP margin lock	R3	0: Lock enabled 1: Lock disabled 8: KPD L Full Margin (FS-9100/9500)	0	*2 Page 12	

*Note 1 Model dependant

Interface Setup

	Parameter	Value	Factory Setting	Reference	Front panel
Buffer size rate Hard Disk	H0	0 to 99 in units of 10 Mb (0 – 990 Mb) (0 or 1 for Ram Disk)	0	*2 Page 14	
Buffer size	H8	0 to 99 in units of 10 kb 0 to 99 in units defined by S5 for FS-7000 / + / 9000	6 5	*2 Page 14	
End-of-job interpretation (Option 2)	I7	0: Disable 1: Adds FF (&HOF) 2: Adds EOT (&HO4) 3: Adds FF and EOT 7: Adds EOT and FF	0		
End-of-job interpretation (Option 1)	I8	0: Disable 1: Adds FF (&HOF) 2: Adds EOT (&HO4) 3: Adds FF and EOT 7: Adds EOT and FF	0	*1 5-6	
I/F release time-out	J2	In 5 second blocks (0 – 99)	6		
Status send control (Serial & Option)	M1	0: Off 1: Send printer status after receiving &H14	0	*1 5-6	
Default Interface	M2	1: Serial 2: Parallel 3: Option (Aux) 4: Option 5: USB	2	*1 5-6	
Buffer size option	M3	0: Automatic 1: Fixed	0 (1)	*1 5-7 *2 Page 14	
Buffer size (1)	M4	Serial buffer relative to other buffers	3 (1)	*2 Page 14	
Buffer size (2)	M5	Parallel buffer relative to other buffers	1 (5)	*2 Page 14	
Buffer size (3)	M6	Option (1) buffer relative to other buffers	1 (5)	*2 Page 14	
Buffer size (4)	M7	Option (2) buffer relative to other buffers	(5)	*2 Page 14	
Buffer size rate	S5	0: 10 Kb (Total buffer = S5 x H8) 1: 100 Kb 2: 1 Mb	1	*2 Page 14	

Parallel

	Parameter	Value	Factory Setting	Reference	Front panel
Interface mode	O0	0: Normal (Centronics) 1: High-speed (Bi-directional ECP) 5: Nibble (High) (HP high speed mode) 70: Auto negotiation	70 or 5	*2 Page 15	Y
Parallel ACK position	O1	1:	1		
Line control in high-speed mode	O2	0: Off 2: HP LaserJet 4 compatible mode 9: PE and Data control when paper out (FS-1010)	2		
Parallel line control FS-400 / 1550	R6	0: Off 1: On	0		

Serial

	Parameter	Value	Factory Setting	Reference	Front panel
Serial I/O control	D0	0: XON sent every 5 secs. Error ignored 1: XON sent every 5 secs. Error handled 10: XON not sent. Error ignored 11: XON not sent. Error handled	0		
Baud rate	H1	3: 300 bps (not valid for some models) 6: 600 bps (not valid for some models) 12: 1200 bps 24: 2400 bps 48: 4800 bps 96: 9600 bps 19: 19200 bps 38: 38400 bps 57: 57600 bps 11: 115200 bps	96		Y
Data bits	H2	7 or 8	8		Y
Stop bits	H3	1 or 2	1		Y

Parity	H4	0: None 1: Odd 2: Even 3: Ignored	0	Y
Protocol logic	H5	0: Combination of 1 and 3 1: DTR / DSR positive logic 2: DTR / DSR negative logic 3: XON / XOFF 4: ETX / ACK 5: XON / XOFF not robust	0	Y
XOFF Buffer nearly full threshold	H6	% off received data buffer size	90	
XON Buffer nearly empty threshold	H7	% off received data buffer size	70	
Serial barcode mode	S9	0: Off (normal mode) 1: On (barcode reader mode)	0	Y

Colour

	Parameter	Value	Factory Setting	Reference	Front panel
Colour Mode	W1	0: Monochrome 1: Colour 2: Quick colour (FS-5900c)	1		Y
Print quality FS-5800c	W2	0: Normal 1: Quick colour	0		Y
Vivid Mode (Colour matching on FS-5800c)	W3	0: Off 1: On Auto on FS-5800c 2: Vivid FS-5800c only 3: Display FS-5800c only	0		Y
RGB simulation	W4	0: None 1: SMPTE240M 2: HDTV 3: Trinitron 4: Apple RGB 5: NTSC	2		Y
Ink simulation	W5	1: None 2: SWOP 3: Euro-scale 4: Toyo 5: DIC	1		Y

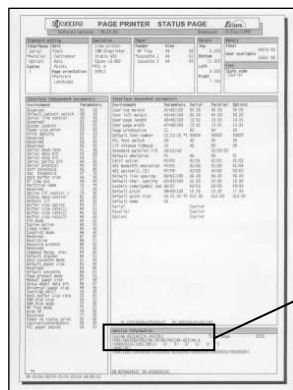
FRPO Parameters in detail

L1 - L8 Hard Margins

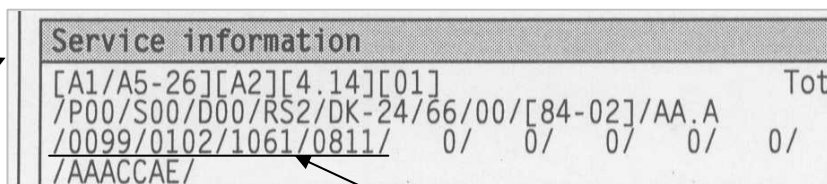
The "L Parameter Margins" control the printable area.

The default margins, listed in this section, allow printing to within 5mm of the papers edge on all sides.

The L parameters can be found in the **Service information** section of a **Service Status** page.



Before changing L parameters, first print a Service Status page. This can be used as a reference for the printer's original settings.



The margins, in inches, are defined by these figures. The figures are measured from a reference point, not the edge of the page, and give an actual margin of 0.33" (5mm).

E.g. Top = 00.99" L1 = 00" L2 = 0.99"
Left = 01.02" L3 = 01" L4 = 0.02"

0099	/	0102	/	1061	/	0811
L1 L2		L3 L4		L5 L6		L7 L8
Top		Left		Length		Width

Changing Margins

The FRPO command is used to set the L parameters:

E.g. Page width

The default margins allow 78 x 10 pitch characters to be printed across the page. If you require 80 characters, from a screen dump for example, you must decrease the left margin and increase the page width. To increase the page width by 0.2", increase L8 to 31, and to keep the print centered on the page, decrease the left margin by 0.1" to 00.92. Use the command:

```
!R! FRPO L8,31; FRPO L3,0; FRPO L4,92; EXIT;
```

On printers newer than the FS-1700 and FS-3700, the page remains centered when the width is changed, so only L8 would require changing in the above example.

E.g. Page Length

To allow extra lines to be printed on a page the printable area can be lengthened by increasing L5 and L6. The Top Margin, L1 and L2, would require decreasing to keep the page centered.

There are other commands for increasing lines-per-page that can be embedded in the data. These include SLPP, SPL and STM. Refer to the Prescribe manual for more detail.

HP Mode - Margin Protect

In HP emulation, before changes to hard margins will take effect, **R3** must be set to **1**.

Full Page Printing

The top and left margins are decreased and the page length and width is increased. Do this in small amounts (e.g. 0.1") as printing off the paper will dirty the Transfer Roller.

To enable printing to the edge of the page in all modes **D1** must be set to **1**.

E.g. To enable Full Page printing on a FS-1750 set the following:

```
!R! FRPO R3,1; FRPO D1,1;  
FRPO L1,00; FRPO L2,84; FRPO L3,01; FRPO L4,00;  
FRPO L5,10; FRPO L6,97; FRPO L7,08; FRPO L8,46; EXIT;
```

Values in this example may require small adjustments due to slight mechanical differences between printers.

Default Margins

These default settings give a 5mm margin around the page.

The default settings for L5, L6, L7 & L8 are always **L5=10, L6=61, L7=08 and L8=11**

	Top L1 / L2	Left L3 / L4
FS-400	01 / 46	00 / 15
FS-600	00 / 32	01 / 23
FS-680	00 / 83	00 / 35
FS-800	00 / 38	01 / 27
FS-850	00 / 24	00 / 52
FS-1000 / +	01 / 05	01 / 15
FS-1010	01 / 00	01 / 25
FS-1200	01 / 00	01 / 04
FS-1500	00 / 86	00 / 18
FS-1550 / +	00 / 95	00 / 15
FS-1600 / +	00 / 95	00 / 16
FS-1700 / +	01 / 00	01 / 25
KM-1510	00 / 11	00 / 20
KM-1810	00 / 11	00 / 20
KM-1530	00 / 13	00 / 32
KM-2030	00 / 13	00 / 32

	Top L1 / L2	Left L3 / L4
FS-1750	01 / 00	00 / 99
FS-1800	00 / 70	00 / 85
FS-1800+	00 / 68	00 / 65
FS-1900	00 / 69	00 / 63
FS-3400 / +	00 / 95	00 / 15
FS-3500	00 / 91	00 / 01
FS-3600 / +	00 / 95	00 / 16
FS-3700	01 / 00	01 / 25
FS-3600 / +	00 / 95	00 / 16
FS-3700	01 / 00	01 / 25
FS-3700+	01 / 00	01 / 05
FS-3750	00 / 99	01 / 02
KM-2530	00 / 20	00 / 45
KM-3530	00 / 20	00 / 45
KM-4230	00 / 16	00 / 00
KM-4530	00 / 11	00 / 20

	Top L1 / L2	Left L3 / L4
FS-3800	00 / 69	00 / 68
FS-5500	00 / 33	02 / 57
FS-6500 / +	00 / 82	00 / 25
FS-6700	00 / 63	01 / 26
FS-6900	00 / 64	01 / 28
FS-7000	00 / 95	00 / 31
FS-7000 / +	00 / 96	00 / 26
FS-8000C	00 / 21	00 / 20
FS-9000	00 / 95	00 / 31
FS-9100DN	00 / 58	00 / 78
FS-9500DN	00 / 58	00 / 78
KM-5230	00 / 16	00 / 00
KM-5530	00 / 11	00 / 23
KM-6230	00 / 16	00 / 00
KM-830C	00 / 20	00 / 19

The settings for L1, L2, L3 & L4 vary due to differences in printer engines.

The fundamental margins on KM models are based on the copier engine. When setting the L-parameters, check that the copier margin is adjusted correctly. If the L-value is set first and then the copier margin is adjusted, the print image might be shifted.

Testing

To test the current margin settings, draw a box that is too big for the page. The printer will print the box within the current hard margins. The following commands draw a large box from the top left corner:

```
!R! MZP 0,0; BOX 30,30; PAGE; EXIT;
```

Wide A4

To enable a page width of 8 inches, or the printing of 80 columns of 10 pitch characters in PCL and LQ modes, **Wide A4** can be selected from the printers front panel menu. The parameters L3, L4, L7 and L8 do not need to be changed.

The command FRPO T6 can also be used to turn on Wide A4:

```
!R! FRPO T6,1;EXIT;
```

Notes

- When using Windows programs, changing the L parameters may alter the position of the print on the page, but the printable area that is set by the margin settings within the Windows drivers will override the printer margin settings.
- These settings do not take effect in KPDL mode.
- These settings cannot be reset by the use of FRPO INIT or RES.
- To set back to defaults margins, re-enter the original values from the Service Status sheet.
- For A3 printers printing on A4, the L parameters correspond to the following:
L1L2 = Left, L3L4 = Bottom, L5L6 = Length, L7L8 = width
- Always adjust the margins in small increments as an incorrect value can cause a dirty Transfer Roller if printing goes off the page.
- It is possible that nothing will be printed if the margins overlap.

M3 - M7 Buffer Size

Total Buffer Size

The Total Host Buffer size is set by the **H8** parameter using the formulae **H8 x 10kb = Total Buffer Size**.

On new models the buffer can be increased by using the formulae **H8 x S5 = Total Buffer Size**, where **S5** can vary from 10kb to 1mb. The Total Buffer Size cannot exceed 50% of the total memory installed.

If an optional hard disk is fitted the **Host Buffer Spool** parameter **H0** can be used, where **H0 x 10Mb** is added to the Total Buffer Size. If a Ram Disk is installed instead of a hard disk H0 is limited to 10Mb.

Interface Buffer Size Ratio

The Total Host Buffer is divided into separate host buffers according to the number of interfaces available. The **M3** parameter determines which host buffer is selected by each interface.

If **M3** equals **0** (automatic), the first data to arrive from the computer will go into buffer #1, regardless of which interface it arrived on, and the printer will begin to print the data. While buffer #1 is still in use, if data begins to arrive on a second interface it will be stored in buffer #2. The printer will print this data after it has finished printing the job received through buffer #1.

If **M3** equals **1** (fixed), buffer #1 is fixed to receive data from the serial interface only; and buffer #2 is fixed on the parallel interface. Buffer #3 and #4 will be fixed on the optional interfaces (if installed).

The parameters **M4**, **M5**, **M6** and **M7** fix the size of each interface's host buffer as a portion of the Total Host Buffer. For example:

If a printer fitted with an optional network interface is using the default settings for M4, M5 and M6, and the Total Host Buffer equals 60kb, each interface buffer would be the following size:

	M3	1	
Serial	M4	3	36kb
Parallel	M5	1	12kb
Network option	M6	1	12kb
	Total		60kb

To set the maximum size for the network interface set M6 to 9 and the rest to 1. The following command will allocate 810kb to the network buffer and 90kb each to the others. ($9/11^{\text{th}}$ of 990 = 810)

!R! FRPO H8,99; FRPO M3,1; FRPO M4,1;FRPO M5,1; FRPO M6,9; EXIT;

NB: For values of 0 used in the M4-M7 parameters, the corresponding buffer size will be 1kb.

N9 PCL Resource Protection

Resource protection is only applicable on 600 dpi models and where downloaded PCL fonts or graphics (including graphics, fonts, or forms loaded from an IC card) are being used. This does not apply to normal Microsoft Windows operations or True type fonts.

These printers have a dynamic memory management system for optimising the use of raster memory (the area used by the printer for laying out the actual page), this allows the printer to use more memory for raster operations when required. The memory management system may remove PCL resource objects that are not currently in use to recover the memory required for the raster operations, and this can cause problems if you have downloaded PCL soft fonts, macros, or graphics such as signatures or forms.

The printer has a facility to set a resource protection to control the printers use of PCL resources and to protect PCL objects from being deleted from the printer's memory.

Setting Description

N9 = 0 Off

N9 = 1 Protects permanent PCL resources and resets the environment settings

N9 = 2 Protects permanent and temporary PCL resources

Resource Protection requires 10 Mb or more of memory. Additional memory will be required for duplexing.

O0 Parallel Port Speed

The speed of the parallel port must match that of the host computer.

- O0 = 0 **Normal** - (Centronics) Old computers, switch boxes and parallel/network converters which do not allow bi-directional communications.
- O0 = 1 **High Speed** - (ECP mode) bi-directional mode for use with new computers and devices
- O0 = 5 **High Speed Nibble** - a HP bi-directional mode
- O0 = 70 **Auto** - Upon receiving data, the printer will attempt to determine what type of parallel port it is attached to and change its own mode accordingly

If the parallel port setting is incorrect or if when O0 = Auto the printer does not match the host port mode correctly then data corruption can result. This can show as missing data in long documents, or as corrupt data being printed.

- Bi-directional communication requires the use of a good quality “25-wire” bi-directional parallel cable.
- If the problem continues despite the setting of O0, set the computers parallel port to ECP or EPP and match the setting on the printer.

R1 Auto Cassette

Normally if a cassette runs out of paper a “paper out” error will occur and printing will halt until more paper is added or another cassette is selected. This is the default condition when R1 = 0.

A printer with multiple cassettes can be set to “cascade” to another cassette when a paper out condition occurs by using the **FRPO R1** command. The value of R1 determines which cassettes the paper will cascade to.

Refer to **X0 – X7 Paper Type Setting** for printers with **Media Type** paper selection.

R5 Raster Memory - Page Protection

The Raster Memory parameter R5 sets the memory area used by the printer for rastering (creating the actual bitmap picture for output). When this setting is smaller than A4, the printer rasters the page in strips. This process increases the amount of user memory, when the available memory is limited.

Older models running under Microsoft Windows (or other graphical systems) should be fitted with extra memory and R5 should be set to A4 (R5 = 4). Newer 600dpi printers have dynamic memory handling and R5 can be set to 1 (Default) for normal printing.

Where a vector based program such as MS Excel or Postscript is being used the Raster Memory should be set to a full A4 page. On 600 dpi printers with dynamic memory it is only necessary to set R5 to 4. This will require more memory:

Recommended minimum for graphics printing	A4 Simplex	A4 Duplex	A3 Simplex	A3 Duplex
600 dpi	5Mb	9 Mb	10 Mb	18 Mb
600 dpi KPD mode	6 Mb	10 Mb	10 Mb	18 Mb

- Every application requires a different amount of printer memory and some may require more memory than listed in the table above.
- Postscript may require more memory due to the processes defined by the print job.
- Printing bitmap graphics via postscript produces very large print jobs and therefore may exceed the user memory space specified above.
- The Raster Memory can be set from the printer’s front panel on FS-Series printers.
- Where partial documents are being printed or where formatting is being lost, add more memory and change R5 to 4.

S6 Ram Disk Size

A Ram Disk can be used for reading and writing data, as a Virtual Mailbox or for the spooling of multiple copies of multi-page documents. It is setup using part of the printer's Total Memory.

The printer's Total Memory must be 12Mb or more.

The maximum Ram Disk size is 99Mb or the Total Memory minus 9Mb, whichever is less.

Eg. To set a Ram Disk of 10Mb use the following command:

```
!R! FRPO S7,1; FRPO S6,10; EXIT;
```

S7 Ram Disk Mode

The Ram Disk is enabled when S7 = 1.

Notes:

- Ram Disk data will be lost if power is turned off.
- Ram Disk cannot be used if an optional Hard Disk is installed.
- Allocating large amounts of the printer's memory to Ram Disk may affect the processing speed of the printer or cause "insufficient memory" errors.
- The Ram Disk menu appears on the front panel if no Hard Disk is fitted and Total Memory is 12Mb or more.

MPS Printing

Normally, when printing multiple copies of a multi-page document, the program will send each page including the copies. For example, when printing 5 copies of a 5-page document, the program will send 25 pages. By enabling Ram Disk the printer driver only needs to send the document once (5 pages) plus a copy command. The printer stores the "rasterized" data on the Ram Disk and then uses that data to print additional copies. Overall processing time is greatly reduced.

T7 Toner Management

When a printer is continually used to print pages with low toner coverage, less than 2% per page, the toner can become degraded inside the developer. This can lead to poor print quality or faint print problems.

When T7 is enabled the printer calculates the average toner usage, and if the usage is less than 2% it will manage the toner so that faint print does not occur.

To enable Toner Management use the command: !R! FRPO T7,2; EXIT;

Printers may require a firmware upgrade to make this command available.

T9 Paper Type

FRPO T9 can be used to select Paper thickness. (Refer to table on Page 5 - Setup)

Incorrect values of T9 can result in grey background or light print.

T9 has been replaced by Media Type on newer printers.

The FS-1000, which does not have Media Type or T9, uses the command **TATR** to set the paper type and print density of its cassettes. Refer to TATR Tray Attribute on Page 21.

U6 & U7 Symbol Sets

The following table details the FRPO settings required for the listed HP symbol sets in HP emulation.

Symbol Set		HP Symbol Set ID	FRPO U6	FRPO U7
ISO 60	Norway	0D (4)	4	50
ISO 15	Italian	0I (9)	9	
ECMA-94	Latin 1	0N (14)	14	
ISO 11	Swedish	0S (19)	19	
ISO 6	ASCII	0U (21)	21	
ISO 4	U.K.	1E (37)	37	
ISO 69	French	1F (38)	38	
ISO 21	Germany	1G (39)	39	
US Legal		1U (53)	53	
ISO	Latin 2	2N (78)	78	
ISO 17	Spain	2S (83)	83	
PS math		5M (173)	73	51
ISO	Latin 5	5N (174)	74	
Windows	Latin 5	5T (180)	51	52
MS Publishing		6J (202)	2	
Ventura	math	6M (205)	5	
Desktop		7J (234)	34	
Math 8		8M (269)	69	
HP Roman-8		8U (277)	77	
Windows	Latin 2	9E (293)	93	53
PC-Turkish		9T (308)	8	
Windows 3.0		9U (309)	9	
PS text		10J (330)	30	
IBM PC-8		10U (341)	41	
IBM PC-8	(D/N)	11U (373)	73	
Macintosh		12J (394)	94	
IBM PC-850		12U (405)	5	54
Ventura	International	13J (426)	26	
Ventura	US	14J (458)	58	
Pi-font		15U (501)	1	55
PC-852	Latin 2	17U (565)	65	56
Windows	Latin 1	19U (629)	29	

Symbol Sets are groups of characters that are added to the standard ASCII character set to enable the printer to print line draw characters and letters and symbols from different countries. There are different Symbol Sets available for each emulation.

A detailed explanation of Symbol Sets is given in Chapter 6 of the Prescribe Manual.

Symbol Set Examples:

To print boxes and lines from a text based program with the printer in HP emulation mode, set the Symbol Set to IBM PC-850:

```
!R! FRPO U6,5; FRPO U7,54; EXIT;
```

To print boxes and lines from an old HP text based program with the printer in HP emulation mode, set the Symbol Set to HP Roman-8:

```
!R! FRPO U6,77; FRPO U7,52; EXIT;
```

To print boxes and lines from a text based program with the printer in LQ emulation mode set the Symbol Set to IBM PC-850:

```
!R! FRPO U6,10; FRPO U7,1; EXIT;
```

X0 – X7 Paper Type Setting

Media Type

Paper Type Setting allows the naming of the paper in each cassette, MP-Tray or envelope feeder. This system of paper selection is also called “Media Type” and is available on printers with PCL6 emulation. It is a method of cassette selection where, instead of selecting the printer’s cassettes by number, the paper type in each cassette is given a name. The name can then be selected by the user without the user having to know in which cassette their paper is located.

For example an FS-9000 with six paper cassettes has plain paper in cassettes one to four and letterhead in cassettes five and six. To print the first page on letterhead and subsequent pages on plain paper the following methods would be used:

- a) Using the old method the user would select cassette 5 for the first page and cassette 1 for the rest. No initial setup of the printer is required. The user must know in which cassette the different paper types are located.
- b) Using Media Type the user would select “Letterhead” for the first page and “Plain” for the rest. Initially each cassette must be named. The user does not have to know in which cassettes the different paper types are located.

The Media Type method is especially useful where there is more than one printer on a network. The user can select a different printer and select different paper types without having to know in which cassette each paper type is located. The paper type must be initially setup by the network administrator.

Setting paper types

Paper Types can be set using **FRPO X0 to X7**. It is usually easier to set them from the printer’s front panel. Some paper types cannot be selected for certain paper feeders. For example “Transparency “ can only be selected from the MP-Tray and “Labels”, “Envelopes” and “Cardstock” cannot be selected from the cassettes and cannot be duplexed. Refer to the printer’s user manual for further settings.

The Custom Paper Types (1 to 8) contain different values for paper weight, duplex and fuser (depending on model). These values can be set by using the **MDAT** and **MTYP** commands or from the printer’s front panel.

Print Density & Paper Thickness

Both **D4** Print Density and **T9** Paper Type (Thickness) have been replaced by Media Type on new printers. The command **TATR** is also used to adjust Density and Thickness on some printers.

Cascade

Prior to the Media Type method, if a cassette ran out of paper the printer showed a “paper out” error and stopped or “cascaded” to another cassette according to the value of **R1** (Refer to R1 Auto Cassette). With the Media Type method R1 is ignored and if a cassette runs out of the selected paper type the printer will automatically switch to another cassette containing the same paper type without producing an error.

NB: If a user is selecting paper by cassette number instead of paper type, and the paper runs out, the printer will still cascade to a cassette with the same paper type as the first selected cassette. (I.e. R1 is ignored).

This can occur if an old printer is replaced with a printer that has the Media Type function or where there are old and new printers on a network.

To disable cascading on the printer that has the Media Type function the parameter **X9** must be set to 1 as outlined below.

X9 PCL Paper Source

This parameter is used to disable cascading of paper feed on printers that have the Media Type function and where paper is being selected by cassette number, not paper type.

- X9 = 0 Printer will cascade to the same paper type when a cassette has become empty.
- X9 = 1 The cassette is not switched when empty, and a “paper out” error is produced.

Y0 Auto Continue Timer

Where a "Press CONTINUE" error exists and it is possible to continue printing, as with the "Memory overflow Press CONTINUE" and "Print overrun Press CONTINUE" errors, the printer will stop printing until the user presses the "CONTINUE" button.

In the case of a shared printer or where additional print jobs have been sent for processing, the printing is held up until the user cancels the error.

The Auto Continue function allows the printer to automatically recover after a period of time after this type of error has occurred and to process the remaining jobs.

Y0 = 0 Auto Continue Off
Y0 = 1 Auto Continue On (default)

Y1 is the **Auto Continue Timer Value** and controls the amount of time between the occurrence of the error and when the printer continues printing. (0 to 99 seconds. Default = 0)

Other Commands

ELOG Event Log

The Event Log records the occurrence of paper jams and “Call Service Person” errors. It can be printed by sending the **ELOG** command:

!R! ELOG; EXIT;

To make the Event Log available through the Front Panel Menu, set **I1** to 1.

!R! FRPO I1,1; EXIT;

Information on how to read the Event Log is in the Event Log Specifications on the Kyocera Training CD.

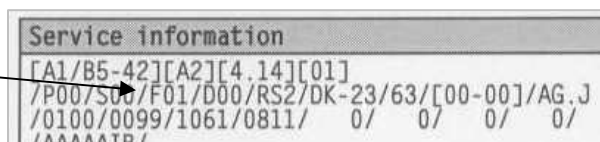
FPLC Front Panel Lock

The Front Panel can be locked, disabling access to some or all of the buttons.

FPLC = 0 Off
 FPLC = 1 Mode, Stack and Feed buttons are disabled
 FPLC = 2 Total Panel Lock, all buttons disabled

To set the printer to partial panel lock use: !R! FPLC 1; EXIT;

If FPLC has been enabled it will be indicated by the characters **F01** or **F02** in the Service information section of the Service Status Sheet.



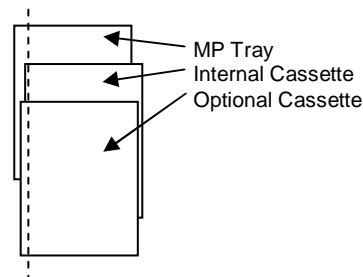
FRPO INIT Initialise

This command can be used to reset all the FRPO parameters back to factory defaults except for those listed in the Service Information section of the Service Status sheet. (e.g. L1 – L8 will not be reset)

!R! FRPO INIT; EXIT;

PFRE Paper Feeder Calibration

It is possible for the left margin to vary between pages fed from different cassettes on the same printer. This can be due to minor differences in the feed mechanisms or alignment of the cassettes.



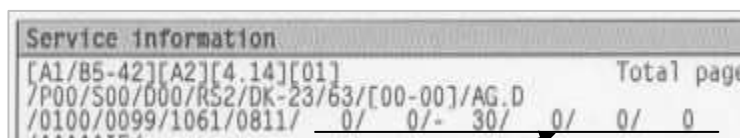
Syntax: PFRE *feeder, value*;

Feeder 0 = MP-Tray
 2 = Option Cassette 1 (Cassette 2 on FS-7000+/9000)
 3 - 7 = Option Cassette 2 (Cassettes 3 to 6 on FS-7000+/9000)
 99 = EF-1
 100 = Duplexer

The internal cassette (Feeder 1) is the reference and is not adjusted.

Value + or – unit (In inches unless otherwise specified)

The PFRE values are shown as number of **Dots** in the Service information section of the Service Status sheet. It is therefore best to work in Dots when adjusting these values. 1" = 600 Dots.



0/	0/	-30/	0/	0/	0/
MP-Tray/	Internal/	Opt cass 1/	Opt cass 2/	EF-1/	Duplex/

NB: Values will be doubled if printer is in 1200dpi mode. Use 600dpi mode.

Network Commands

The default settings on Kyocera network interface cards can be changed by sending commands to the printer via the parallel or serial ports.

Kyocera supply several different network interface cards and different command parameters are used for each. There are also two types of cards, those that are fitted internally on the system board, and the newer cards that are fitted via a slot in the rear panel.

HBM Printservers

HB-4 & HB-6

Listed below are some of the parameters available for use with SIOP. More parameters can be found in the HBM network interface manual.

IP Address	SIOP “:INTERNET:xxx.xxx.xxx.xxx”;
Subnet Mask	SIOP “:SUBNET:xxx.xxx.xxx.xxx”;
Print Server name	SIOP “:PRINTSERV:Printserver_name”;
Auto IP On	SIOP “:AUTOIPON:”;
Auto IP Off	SIOP “:AUTOIPOFF:”;
Reset	SIOP “:RESET:”;

Example:

To change an IP address to 192.168.0.123 use: !R! SIOP “:INTERNET:192.168.0.123”; EXIT;

HB-7 & HB-7/100

These settings can be changed using SIOP2.

IPX On	SIOP2,"IPX:1";
IPX Off	SIOP2,"IPX:0";
Apple EtherTalk On	SIOP2,"APPLE:1";
Apple EtherTalk Off	SIOP2,"APPLE:0";
IP Address	SIOP2,"IP:192.168.0.123";
Subnet Mask	SIOP2,"SUBNET:255.255.255.0";
Gateway	SIOP2,"DEFAULT:192.168.0.004";

Example:

To change an IP address to 192.168.0.123 use: !R! SIOP2, "IPX:192.168.000.123"; EXIT;

Note: It is necessary to enter 3 digits for each section of the Subnet Mask and IP Address. For example, if the number is 192.168.45.123 then the 45 must have a zero in front of it. The address would therefore be entered as 192.168.045.123.

SEH Printservers

IC-53 & NB4e (KYO)

No commands are available for these cards.

IC-59, SB4e, SB4/100 & SB110 (KYO2)

These settings are changed with the SIOP2 command using the same syntax as the HBM HB-7.

More parameters can be found in the Operation Manuals for these network interface cards.

References

Further references to Permanent Parameters, FRPO commands and default settings can be found in:

- **Prescribe Ite Manual** Located on any Kyocera printer driver CD.
- **Software Support Notes** Located on the Kyocera Technical Library CD Ver 2.0 and later.
- **Printer Operation Manuals** Located on the Kyocera printer's driver CD.
- **Printer Technical Manuals** Located on the Kyocera Technical Library CD
- **Network Interface Manuals** Located on the network card's CD.
- **MPS Manual** Located on Kyocera Training CD
- **Event Log Specification** Located on Kyocera Training CD

Other reference material can be found on Kyocera web sites that are linked to:

WWW.KYOCERAMITA.COM.AU



