

Model: V20 Printer		Date: 15-Jul-98	No: 1
Subject: Controller Software Modification		Prepared by: A.Tokoyama	
From: QAC Field Information Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input checked="" type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other (      )		

This bulletin describes the software modifications for the main printer controller board.

Two software items [system software and boot ROM (EPROM)] have been changed for this modification.

The new software version has been included in the machines from July production.

Problem	Countermeasure
During "Energy Saver Mode", if an error condition occurs, even it is cleared, the NIC might not accept data and cannot wake up the printer.	Modified software.
It takes a long time to get V20 printer status via the network using SNMP/MIB.	Modified software.

## Added New Function / Changed Default Setting

Implemented multiple OEM device ID support in the service program mode.

Procedure to change OEM name (Ricoh or NRG):

1. Enter the service mode.
2. Select the OEM menu using the Up/Down arrow keys, then press the enter key.
3. Select the OEM name (Ricoh or NRG), then press the enter key.
4. Restart the printer (power cycle the printer).

Menu Level			Function	Setting
Level 1	Level 2			
OEM		OEM device ID Setting	Select the OEM device ID setting.	Ricoh NRG

Changed the default setting of the "PM Alarm" menu item from "Off" to "On".

## Controller Board Part Number and Software Version:

Product Code	Controller Board	System Software Version	Boot ROM Software Version
G020-17, 27	G0205834M	Ver. 1.20	Ver.1.20

Model: V20 Printer		Date: 17-Sep-98	No: 2
Subject: Controller Software Modification		Prepared by: A. Tokoyama	
From: QAC Field Information Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input checked="" type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other (      )		

This bulletin describes the software modifications for the main printer controller board. The system software for the controller board has been changed for this modification. The new version of the software is included in machines produced after August.

Problem	Countermeasure
Sometimes the printer pauses the print job for the time-out value.	Modified software.
Sometimes the printer does not shift modes when it receives in Energy saver mode.	Modified software.

Modified Config. Print / MIB objects/ additional command
Modified Configuration Page to show the paper size in each tray, instead of Tray(*) size.
Modified SNMP/MIB objects for the Aficio Manager.
Added PCL commands for Output Trays OutputTray 2    Esc&I4G      @PJL SET OUTBIN=OPTIONALOUTBIN2 OutputTray 3    Esc&I5G      @PJL SET OUTBIN=OPTIONALOUTBIN3 OutputTray 4    Esc&I6G      @PJL SET OUTBIN=OPTIONALOUTBIN4 OutputTray 5    Esc&I7G      @PJL SET OUTBIN=OPTIONALOUTBIN5 Shift Tray (FD) Esc&I100G    @PJL SET OUTBIN=SHIFTDOWN Shift Tray (FU) Esc&I3G      @PJL SET OUTBIN=SHIFTUP

Controller Board Part Number and Software Version:

Product Code	Controller Board	System Software Version	Boot ROM Software Version
G020-17, 27	G0205834N	Ver. 1.30	Ver.1.20 (This software has not been modified at this time.)

Model: V20 Printer		Date: 28-Feb-99	No.: 3
Subject: BECU ROM History		Prepared by: K. Hattori	
From: GTSS Field Information Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Retrofit information <input type="checkbox"/> Other (      )		

BECU firmware history for the V20 printer.

Product Code: G020-17, 27

ROM suffix (G0205541)	File No. (G020xxx)	Software Version	Check SUM	Production
B	130	Ver. 1.30	0838	USA Model(G020-17): G8047110001~ European Model(G020-27): G8047110051~
C	140	Ver. 1.40	43D3	USA Model(G020-17): G8048100001~ European Model(G020-27): G8048070001~

Note 1: The file format is motorola-S3 format.

Note 2: Use only 4MB EPROM with 120ns access time. (Do not use 150ns access time EPROMs)

Note 3: Writing condition - Offset Address is "100000".

Reasons for change:

ROM suffix	Reasons for change
B	This is the first production version.
C	Optimizing toner density control table with countermeasures for dirty background.

Model: V20 Printer		Date: 28-Feb-99	No.: 4
Subject: Controller System Software History (with Boot ROM)		Prepared by: H. Hattori	
From: GTSS Field Information Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Retrofit information <input type="checkbox"/> Other (      )		

Controller System Software history for the V20 printer.

Controller System Software history:

Controller Board (G0205834)	File No. (V25fwxxx)	Software Version	Production
M	120	Ver. 1.20	This is not produced.
N	130	Ver. 1.30	USA Model(G020-17): G8047120006~7, G8047120010~12, G8047120015~20, G8047120022~25, G8047120028~42, G8047120044~45, G8047120051~52, G8047120054~60, G8047120062, G8047120064~66, G8048010001, G8048010003~10, G8048010012~15, G8048010023~25, G8048010027~ European Model(G020-27): G8048010034~36, G8048010038~39, G8048010042, G8048010044, G8048010047~51, G8048010053~55, G8048070001~

Boot ROM history:

ROM suffix (G0205531)	File No. (V25btxxx)	Software Version	Check SUM	Production
D	110	Ver. 1.10	0124	January Prod. '98
E	120	Ver. 1.20	E20E	Same as Controller Board's Suffix "N".

Note1: the file format is motorola-S3 format.

Note2: 4MB EPROM with access time 120ns.

Note3: Writing condition - Offset Address is "BFC00000", a Byte Swap setting is needed.

Reasons for change:

Controller Board	Reasons for change
M	Refer to RTB No.1.
N	Refer to RTB No.2.

Boot ROM	Reasons for change
D	Check NV-RAM write completion.
E	1.Fixed the detection of bad PS DIMM problem. 2.Changed "Ricoh Aficio MP01" to "Aficio MP01" in the PS Font Page.

Model: V20 Printer		Date: 28-Feb-99	No.: 5
Subject: Driver software History (PCL,TIFF,PS)		Prepared by: K. Hattori	
From: GTSS Field Information Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Retrofit information <input type="checkbox"/> Other (      )		

Driver Software history for the V20 printer.

### PCL (for Windows3.1/95) Driver Software history:

Software Version	File No. (RW39pxxx) (NW39pxxx)	Production
Ver. 1.00	---	This is the first production version.
Ver. 1.10	110	USA Model(G020-17): G8047120006~7, G8047120010~12, G8047120015~20, G8047120022~25, G8047120028~42, G8047120044~45, G8047120051~52, G8047120054~60, G8047120062, G8047120064~66, G8048010001, G8048010003~10, G8048010012~15, G8048010023~25, G8048010027~ European Model(G020-27): G8048010034~36, G8048010038~39, G8048010042, G8048010044, G8048010047~51, G8048010053~55, G8048070001~

Note: First character of File name shows the company name (R: Ricoh , N: NRG)

### PCL (for Windows NT4.0) Driver Software history:

Software Version	File No. (RN40pxxx)	Production
Ver. 3.09	309	This is the first production version.

### PS (for MAC) Driver Software history:

Software Version	File No. (RMACsxxx) (NMACsxxx)	Production
Ver. 1.00	100	This is the first production version.

### PS (for Windows 3.1) Driver Software history:

Software Version	File No. (RW31sxxx) (NW31sxxx)	Production
Ver. 1.00	100	This is the first production version.

Model: V20 Printer

Date: 28-Feb-99

No.: 5

## PS (for Windows 95) Driver Software history:

Software Version	File No. (RW95sxxx) (RW95sxxx)	Production
Ver. 1.00	100	This is the first production version.

## TIFF (for Windows 3.1) Driver Software history:

Software Version	File No. (RW31txxx) (NW31txxx)	Production
Ver. 1.00	---	This is the first production version.
Ver. 1.10	---	January Prod. '98
Ver. 1.20	120	Same as PCL Driver Software Ver. 1.10.

## TIFF (for Windows 95) Driver Software history:

Software Version	File No. (RW95txxx) (NW95txxx)	Production
Ver. 1.00	---	This is the first production version.
Ver. 1.10	---	January Prod. '98
Ver. 1.20	120	Same as PCL Driver Software Ver. 1.10.

## Reasons for change:

PCL Driver	Reasons for change
Ver. 1.10	Changed features for this release: 1.The driver doesn't send the Collate command when copies=1. 2.Graphic mode default change : Raster to HP-GL/2. 3.Add the "Browse" button to the "Add font" dialog of the font installer.

TIFF (Win3.1) Driver	Reasons for change
Ver. 1.20	Solution: 1.Modified to make "PJM SET COLLATE=OFF" if "PJM SET COPIES=1". 2.Tray 1 is selected as the default input tray instead of Auto Select Tray. 3.An extra "0A" is attached at the end of the data stream for each print job.

TIFF (Win 95) Driver	Reasons for change
Ver. 1.20	Solution: 1.Modified to make "PJM SET COLLATE=OFF" if "PJM SET COPIES=1". 2.When printing a test page from the driver GUI, the driver always tries to use the bypass tray because CUSTOM paper size is being chosen. This is due to incorrect initialization of printer properties in the driver code. 3.An extra "0A" is attached at the end of the data stream for each print job.