===
*** Basic Information ***
===
[Create date] 2018/12/25

[Program Name] System

[Version] 2.12.1

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)
[Firmware No.] M2056020P
[File Information]
 File Name   M2056020P.fwu
 File Type   Module for Service
 Size   17.80 MB (18667156 byte)
[File Information]
 File Name   M2056020P.rfu
 File Type   Module for Remote Upgrade
 Size   17.81 MB (18673920 byte)
[Availability of RFU] No

[Production reflection] 2018/11

===
*** Note ***
===
[Note]

===
*** Important Notes ***
===
[Important Notes]

===
*** Modification History ***

==
[Modifications made:]
Rank C

Symptom corrected:
- It takes time to login after authenticating the card.
- Pressing the Fiery button on the operation panel after powering on
  the machine does not display the "Please Wait" screen.
- IBACC results in an error because the threshold was set incorrectly.

[Modification history]

Version 2.11
Symptom Corrected:
- Hue fluctuation in halftone area ia too much due to the improper parameters used
  in development process control and IBACC.

IMPORTANT!
Engine F/W should be upgraded to the ver 4.12:14 (M2055309P) or newer as a set.

Version 2.10
Symptom Corrected:
- If paper library data had been backed up and restored, a paper mismatch error
  may occur with jobs using custom paper.
- Auto Detect is falsely applied to a job set with a specific custom size and
  the connection between the Prinect DFE and engine drops.

Version 2.09
Symptom corrected:
- The service mode lock can falsely be unlocked by the user under particular
  conditions.
- Fix was applied to properly display the default values of the following SP
  (which were changed since Engine F/W V4.09:14).
    SP3-622-051: from 625 to 460
    SP3-622-052: from 625 to 460
    SP3-622-053: from 625 to 460
    SP3-622-054: from 625 to 460
    SP3-624-001: from 0.05 to 0.25
    SP3-624-002: from -0.20 to 0
- If a job is sent from the Fiery controller while the engine enters the energy
  saver mode, the engine does not wake up and the job is not run.

Version 2.08
- The operation panel freezes, if searched for a custom paper that contains 2
  byte character in its name.
- SC911-62 occurs and the communication with the engine disconnects, if the
  engine and TotalFlow Print Server R-61A are synchronized when the index width

specified on the operation panel is exceeding the maximum width.
- If a user is registered to CAP V2 with the same user name as the device
  administrator (admin), the user can be used to manually log in to the device
  if case insensitivity is set.
- If printed from Prinect DFE after accessing the Adjustment Settings for
  Operators/Skilled Operators menus, the system stalls displaying "Printing."
- The correct error code is not displayed on the operation panel, if logged
  in by a user who is unregistered in the address book using an external
  authentication when the address book is full.

Version 2.07
- The product name described in PnP and Net BUEI was updated.
- For the Heidelberg model, make sure to update the Prinect DFE microcode to
  version 1.6.004 or later. (refer to relating RTB#RM205182)

Version 2.06
Specification change:
Improved usability of the IMSS functions
- In "Edit Custom Paper" settings, multiple papers can be selected
  for "Print the Settings" and "Delete."
- A new button "New Program" was added to enable easier registration of new paper.
- Numbers assigned for existing custom paper can be changed.
- Several terms used in the paper library were changed for better comprehensibility.
- Better display of search result of paper.

Improved usability of the "Adjustment Settings for Operators"
and "Adjustment Settings for Skilled Operators" menus
- Numeric keypad on the operation panel can be used to enter values.
- Changed the descriptions of several items in the menu.

Change in login/logout spec. See RTB No. RM205160 for detail.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- OpePanel firmware ver.1.05 or later
- Web Support firmware ver.2.05 or later

Version 2.04
Specification Change:
- Values of Adjustment Settings for Skilled Operators were changed.

Error Correction:
- Paper thickness information in SMC taken after paper jam is incorrect.

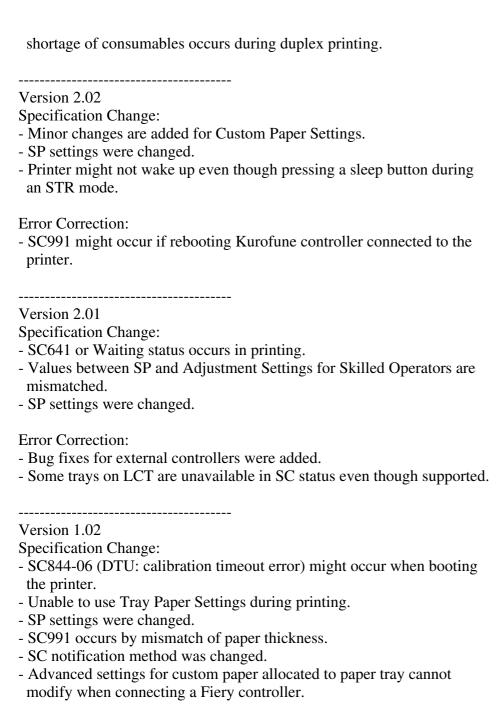--
Version 2.03
Specification Change:
- SP settings were changed.

Error Correction:
- Printing via external controller might not stop printing even if a

shortage of consumables occurs during duplex printing.

Version 2.02
Specification Change:
- Minor changes are added for Custom Paper Settings.
- SP settings were changed.
- Printer might not wake up even though pressing a sleep button during
  an STR mode.

Error Correction:
- SC991 might occur if rebooting Kurofune controller connected to the
  printer.

Version 2.01
Specification Change:
- SC641 or Waiting status occurs in printing.
- Values between SP and Adjustment Settings for Skilled Operators are
  mismatched.
- SP settings were changed.

Error Correction:
- Bug fixes for external controllers were added.
- Some trays on LCT are unavailable in SC status even though supported.

Version 1.02
Specification Change:
- SC844-06 (DTU: calibration timeout error) might occur when booting
  the printer.
- Unable to use Tray Paper Settings during printing.
- SP settings were changed.
- SC991 occurs by mismatch of paper thickness.
- SC notification method was changed.
- Advanced settings for custom paper allocated to paper tray cannot
  modify when connecting a Fiery controller.

Error Correction:
- Custom paper can be registered even with wrong conditions if scanned
  by "Scan Value to Program with Media Identification Unit".
- Authentication login by IC card eventually takes time.

Version 1.01.1
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/07/03
----------------------------------------------------------------
[Program Name] Network Support
----------------------------------------------------------------
[Version] 14.68
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M2056029E
[File Information]
 File Name       M2056029E.fwu
 File Type       Module for Service
 Size            9.54 MB ( 9998260 byte )
[File Information]
 File Name       M2056029E.rfu
 File Type       Module for Remote Upgrade
 Size            9.54 MB ( 10002688 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2017/07
----------------------------------------------------------------


================================================================
*** Note ***
================================================================
[Note]

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================================================================
*** Important Notes ***
================================================================
[Important Notes]

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```

```
================================================================================
*** Modification History ***
================================================================================
[Modifications made:]
 Symptom corrected:
- When the device is in Energy Saver Mode, if information about the
  network interface for the device is being obtained from the SNMP
  Manager application, nonexistent errors are recorded in the system
  logs.

Other Changes:
- The default value of "Algorithm Signature" has been changed from
  SHA1-RSA 2048 to SHA256-RSA 2048 when the device creates a new
  device certificate.



------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 14.67
Symptom Corrected:
- When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active",
  authentication will fail.



-----------------------------------------
Version 14.66
Symptom corrected:
Changed the DH key specification to use 2,048 bits instead of 512 bits
to prevent the Logjam vulnerability (CVE-2015-4000). In addition, by
modifying this specification, SSL/TLS communication can be established
when using Mac OS X 10.10.4 and iOS 8.4.



-----------------------------------------
Version 14.65
Symptom corrected:
Minor bug correction



-----------------------------------------
Version 14.64
1st Mass production
```

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/07/03
----------------------------------------------------------------
[Program Name] Web Support
----------------------------------------------------------------
[Version] 2.07
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M2056025K
[File Information]
 File Name      M2056025K.fwu
 File Type      Module for Service
 Size          5.89 MB ( 6179432 byte )
[File Information]
 File Name      M2056025K.rfu
 File Type      Module for Remote Upgrade
 Size          5.90 MB ( 6185216 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2017/07
----------------------------------------------------------------


================================================================
*** Note ***
================================================================
[Note]

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================================================================
*** Important Notes ***
================================================================
[Important Notes]

----------------------------------------------------------------
```

```
================================================================================
*** Modification History ***
================================================================================
[Modifications made:]
 Symptom corrected:
- Fixed mistakes in the names of setting items in "Registration
  Adjustment: Across Feed".



------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 2.06
Error Corrected:
If logged in to WIM while requesting for user authentication on the
operation panel, the authentication dialog appears again on the panel.



-----------------------------------------
Version 2.05
Specification change:
Improved usability of the IMSS functions
- In "Edit Custom Paper" settings, multiple papers can be selected
  for "Print the Settings" and "Delete."
- A new button "New Program" was added to enable easier registration of new paper.
- Numbers assigned for existing custom paper can be changed.
- Several terms used in the paper library were changed for better comprehensibility.

Changed the names of the items in the "Adjustment Settings for
Operators" and "Adjustment Settings for Skilled Operators" menus.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- System firmware ver.2.06 or later
- OpePanel firmware ver.1.05 or later



-----------------------------------------
Version 2.03
Specification Change:
Corporate logo of OEM displayed on Web Image Monitor was changed.

Symptom corrected:
Wrong values are displayed/specified for the settings regarding registered
custom paper, via Web Image Monitor.



-----------------------------------------
Version 2.02
Specification Change:
Minor changes are added for Custom Paper Settings.
```

Version 2.01
Specification Change:
Minor changes are added for Custom Paper Settings.

Version 2.00
Symptom Corrected:
Bug fixes for external controllers were added.

Version 1.02
Symptom corrected:
Advanced paper settings cannot be changed even if the media is
assigned to a tray.

Version 1.01
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2017/12/04
--------------------------------------------------------------------------------
[Program Name] Java VM v12 std for eDC
--------------------------------------------------------------------------------
[Version] 12.57.00
--------------------------------------------------------------------------------
[PCB No.]
--------------------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------------------
[Software category] Normal Release
--------------------------------------------------------------------------------
[Release category] Normal Release
--------------------------------------------------------------------------------
[Program category] Firmware
--------------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M2056028F_edc
[File Information]
 File Name        M2056028F_edc.ifu
 File Type        Module for Service
 Size           61.71 MB ( 64711792 byte )
[Availability of RFU] No
--------------------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------------------


================================================================================
*** Note ***
================================================================================
[Note]

--------------------------------------------------------------------------------



================================================================================
*** Important Notes ***
================================================================================
[Important Notes]

--------------------------------------------------------------------------------



================================================================================
*** Modification History ***
```

===

[Modifications made:]
Symptom corrected:
- If only IPv6 is enabled on the device, utility tools (e.g. Device Manager
  NX family or Streamline NX v3) will fail to install applications remotely.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine,
  possibly leading to unexpected errors occurring with JavaVM or
  bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.

[Modification history]

Version 12.54.00
Symptom corrected:
- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may
  not be able to start during the boot process due to a Java VM error.
- If only IPv6 is enabled on the device, utility tools (e.g. Device
  Manager NX family or Streamline NX v3) will fail to install
  applications remotely.
- The following issues occur if any device certificate is imported
  using the Device Manager NX Enterprise Certificate Management Tool.
    - Device Manager NX Enterprise fails to retrieve the information
      about the application(s) installed on the device.
    - GlobalScan NX fails to apply profiles or retrieve device
      information when using the AdminTool.
- The SDK application icon might not be displayed after recovering
  from energy saving mode under the following conditions:
    - An SDK application is set as a priority function.
    - An SDK application is set as a function key.

Version 12.46.01
Symptom corrected:
- Job cannot resume and the machine remains on-line, if paper near-
  end occurs while printing General format files.
- SC637 may occur, if the machine is shut down while printing.
- Sending fax from the document server using IPv4-mapped address may
  result in an error.
- Replacing with a new controller board installed with the latest
  Java VM version may disallow downgrading to previous version or
  retrieve customized version and cause trouble for users who wish
  to use specific or customized versions.
- If the "Chng Stgs" button is pressed after pressing the "Preview"
  button in ELP-NX, the "Change Print Settings" configuration may
  not be set correctly.
- After applying the security update that changes the priority order
  for cipher suites, SSL communication fails between an application
  that includes an SSL server function and the Windows operating system.
- When "Tracking Permission" and "Stop Printing" are enabled in
  "Enhanced Print Volume Limitation", processing of the job might fail.

- SDK application behavior may be incorrect or inconsistent.
  (CAP/ELP/SLNX/GSNX/etc.)
  Both the Standard (Compatibility mode) application and the SOP
  Optimized (Hybrid mode) application are affected by these issues.
  - Cannot log in.
  - Cannot scan.
  - Cannot print.
  - Error message appears.
  etc.
- When conducting location-free printing or authentication processing
  by using a solution product, an SC899 error might occur or Java VM
  might close unexpectedly and an SC error related to Java VM not
  responding might occur.
- The DSDK application fails to connect to the LDAP server when
  using Kerberos authentication.

Version 12.15.03
Symptom corrected:
- If the firmware is updated remotely while the device is in energy
  saving mode, the SDK platform may not boot up.

Version 12.12.06
Symptom corrected:
- If the following is repeated, devices with CAP v2 installed will
  stall or behave slowly.
  Log in to the device --> Switch to energy save mode --> Return
  from energy save mode
- When Java VM is updated via Remote Install Manager, the stack size
  may be reset to the default size from the specified size.
- When an ESA application is installed via Remote Install Manager,
  the heap size may be reset to the default size from the specified size.
- The machine cannot enter Energy Saver Mode after repeatedly
  entering and recovering from the mode.
- Java VM may not start up correctly if the main power switch is
  turned OFF about three minutes after the "Success" banner is
  displayed following a successful update of the Java VM using the
  update tool.
- In the case that Streamline NX is installed (with the PKI module)
  on the following models, authentication may not be performed.
    - MP W7100/W8140/W6700
    - Pro C7100S/C7100SX
- If an ESA application that uses Administrator Authentication
  Management, User Authentication Management, or Enhanced External
  Charge Unit Management (e.g. CAP v2, Streamline NX) stops during
  logout handling, the logout cannot be completed.
- If Kerberos authentication is performed with an ESA application
  (e.g. CAP v2, Streamline NX), the handling cannot time out even if
  the specified time expires.

Version 12.05.03
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/12/04
----------------------------------------------------------------
[Program Name] Java VM v12 std UpdateTool
----------------------------------------------------------------
[Version] 12.57.00
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M2056028F_upd
[File Information]
 File Name        M2056028F_upd.exe
 File Type        Module for Service
 Size          61.55 MB ( 64540941 byte )
 Check Sum -8Bit Sum: D429
       -16Bit Sum(Little Endian): 9011
       -16Bit Sum(Big Endian): 6D18
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


================================================================
*** Note ***
================================================================
[Note]

----------------------------------------------------------------



================================================================
*** Important Notes ***
================================================================
[Important Notes]

----------------------------------------------------------------
```

```
================================================================
*** Modification History ***
================================================================
[Modifications made:]
Symptom corrected:
- If only IPv6 is enabled on the device, utility tools (e.g. Device Manager
  NX family or Streamline NX v3) will fail to install applications remotely.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine,
  possibly leading to unexpected errors occurring with JavaVM or
  bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.



--------------------------------------------------------------------------
[Modification history]
------------------------------------------
Version 12.54.00
Symptom corrected:
- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may
  not be able to start during the boot process due to a Java VM error.
- If only IPv6 is enabled on the device, utility tools (e.g. Device
  Manager NX family or Streamline NX v3) will fail to install
  applications remotely.
- The following issues occur if any device certificate is imported
  using the Device Manager NX Enterprise Certificate Management Tool.
    - Device Manager NX Enterprise fails to retrieve the information
      about the application(s) installed on the device.
    - GlobalScan NX fails to apply profiles or retrieve device
      information when using the AdminTool.
- The SDK application icon might not be displayed after recovering
  from energy saving mode under the following conditions:
    - An SDK application is set as a priority function.
    - An SDK application is set as a function key.



------------------------------------------
Version 12.46.01
Symptom corrected:
- Job cannot resume and the machine remains on-line, if paper near-
  end occurs while printing General format files.
- SC637 may occur, if the machine is shut down while printing.
- Sending fax from the document server using IPv4-mapped address may
  result in an error.
- Replacing with a new controller board installed with the latest
  Java VM version may disallow downgrading to previous version or
  retrieve customized version and cause trouble for users who wish
  to use specific or customized versions.
- If the "Chng Stgs" button is pressed after pressing the "Preview"
  button in ELP-NX, the "Change Print Settings" configuration may
  not be set correctly.
- After applying the security update that changes the priority order
  for cipher suites, SSL communication fails between an application
```

that includes an SSL server function and the Windows operating system.
- When "Tracking Permission" and "Stop Printing" are enabled in
  "Enhanced Print Volume Limitation", processing of the job might fail.
- SDK application behavior may be incorrect or inconsistent.
  (CAP/ELP/SLNX/GSNX/etc.)
  Both the Standard (Compatibility mode) application and the SOP
  Optimized (Hybrid mode) application are affected by these issues.
    - Cannot log in.
    - Cannot scan.
    - Cannot print.
    - Error message appears.
  etc.
- When conducting location-free printing or authentication processing
  by using a solution product, an SC899 error might occur or Java VM
  might close unexpectedly and an SC error related to Java VM not
  responding might occur.
- The DSDK application fails to connect to the LDAP server when
  using Kerberos authentication.

Version 12.15.03
Symptom corrected:
- If the firmware is updated remotely while the device is in energy
  saving mode, the SDK platform may not boot up.

Version 12.12.06
Symptom corrected:
- If the following is repeated, devices with CAP v2 installed will
  stall or behave slowly.
  Log in to the device --> Switch to energy save mode --> Return
  from energy save mode
- When Java VM is updated via Remote Install Manager, the stack size
  may be reset to the default size from the specified size.
- When an ESA application is installed via Remote Install Manager,
  the heap size may be reset to the default size from the specified size.
- The machine cannot enter Energy Saver Mode after repeatedly
  entering and recovering from the mode.
- Java VM may not start up correctly if the main power switch is
  turned OFF about three minutes after the "Success" banner is
  displayed following a successful update of the Java VM using the
  update tool.
- In the case that Streamline NX is installed (with the PKI module)
  on the following models, authentication may not be performed.
     - MP W7100/W8140/W6700
     - Pro C7100S/C7100SX
- If an ESA application that uses Administrator Authentication
  Management, User Authentication Management, or Enhanced External
  Charge Unit Management (e.g. CAP v2, Streamline NX) stops during
  logout handling, the logout cannot be completed.
- If Kerberos authentication is performed with an ESA application
  (e.g. CAP v2, Streamline NX), the handling cannot time out even if

the specified time expires.

Version 12.05.03
1st Mass production

==
*** Basic Information ***
==
[Create date] 2018/01/16

[Program Name] DTU FPGA Config Data

[Version] V2.05

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)
[Firmware No.] M2056113L
[File Information]
 File Name   M2056113L.jic
 File Type   Module for Service
 Size   32.00 MB (33554661 byte)
 Check Sum -8Bit Sum: 3A7C
          -16Bit Sum(Little Endian): 9E28
          -16Bit Sum(Big Endian): 1854
[Availability of RFU] No

[Production reflection]

==
*** Note ***
==
[Note]

==
*** Important Notes ***
==
[Important Notes]

```
================================================================
*** Modification History ***
================================================================
[Modifications made:]
Rank C


Symptom Corrected:
- SC687 might occur.




------------------------------------------------------------------------
[Modification history]
------------------------------------------
Version V2.04
Symptoms corrected:

SC161-06; If a job is cancelled during the IBACC process, the system falsely also
cancels the IBACC pattern creation, resulting in the error.

SC687-00; If a simplex job data is sent from the DFE intermittently, the DTU falsely
acknowledges as separate jobs, resulting in the error.




------------------------------------------
Version V2.00
Error correction:
SC161-06 (IPU Error (M2P Error)) appears frequently on machines installed with
DTU FPGA Config Data version 2.01.
```

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/02/19
----------------------------------------------------------------
[Program Name] Engine
----------------------------------------------------------------
[Version] 4.14:14
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M2055309R
[File Information]
 File Name        M2055309R.fwu
 File Type        Module for Service
 Size             7.88 MB ( 8258036 byte )
[File Information]
 File Name        M2055309R.rfu
 File Type        Module for Remote Upgrade
 Size             7.88 MB ( 8265984 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2018/02
----------------------------------------------------------------


================================================================
*** Note ***
================================================================
[Note]

----------------------------------------------------------------


================================================================
*** Important Notes ***
================================================================
[Important Notes]

----------------------------------------------------------------
```

```
================================================================================
*** Modification History ***
================================================================================
[Modifications made:]
Symptom Corrected:

(1) SC39X-55 (Drum motor traction output shaft load error)
(2) Jam477 (LCIT RT5100 exit sensor) occurs when feeding 640x320mm size banner sheets.


IMPORTANT!

Procedure to upgrade the Engine F/W to the latest (V4.14:14) is different depending
on the version of the Engine F/W currently installed.
(See SP7-801-255 to verify the current Engine F/W version.)

1. System F/W should be upgraded to the ver 2.11 (M2056020N) or newer as a set.
2. After upgrading the Engine F/W to the latest , confirm if the following SP settings
   has been changed to the value shown below or not. If not, change them manually.

SP Number    SP setting to be changed..
sp3623-052   51
sp3623-053   51
sp3623-054   51
sp3623-071   -0.9355
sp3623-072   88.31
sp3623-073   -1690
sp3623-074   0.0053
sp3623-075   0.02
sp3623-076   2
sp3623-081   -5.53
sp3623-082   508.2
sp3623-083   -10888
sp3623-084   1.3963
sp3623-085   -142.43
sp3623-086   3626
sp3660-121   0.005
sp3660-122   0.005
sp3660-123   0.005
sp3660-124   0.005
sp3662-001   75
sp3662-002   75
sp3662-003   75
sp3662-004   75
sp3671-001   0.4
sp3671-002   1.3
sp3671-003   1.3
sp3671-004   1.3
```

Be sure to follow the instructions mentioned in the attached file
"EngineFW_V4.14_ReleaseNote#01.doc", or the machine may result in a fatal error.

[Modification history]

Version 4.13:14
Symptom Corrected:
(1) Originally, the toner bottle cap motor was designed to activate and open the
    cap whenever the machine power turns ON, but the spec was changed to activate
    the motor only when the cap is closed, to reduce stress on the motor.
(2) After jammed sheets are purged the job does not resume printing but the
    operation panel continues to display "Printing" for 30min followed by SC990.
(3) In a mixed custom media job containing tab stock, the test patches for process
    control run during the job are falsely printed toward the leading edge of the
    second page after the tab sheet.

IMPORTANT!
Procedure to upgrade the Engine F/W to the latest (V4.13:14) is different depending
on the version of the Engine F/W currently installed.
(See SP7-801-255 to verify the current Engine F/W version.)
1. System F/W should be upgraded to the ver 2.11 (M2056020N) or newer as a set.
2. After upgrading the Engine F/W to the latest , confirm if the following SP
   settings has been changed to the value shown below or not. If not, change
   them manually.

SP Number	SP setting to be changed..
sp3623-052	51
sp3623-053	51
sp3623-054	51
sp3623-071	-0.9355
sp3623-072	88.31
sp3623-073	-1690
sp3623-074	0.0053
sp3623-075	0.02
sp3623-076	2
sp3623-081	-5.53
sp3623-082	508.2
sp3623-083	-10888
sp3623-084	1.3963
sp3623-085	-142.43
sp3623-086	3626
sp3660-121	0.005
sp3660-122	0.005
sp3660-123	0.005
sp3660-124	0.005
sp3662-001	75
sp3662-002	75
sp3662-003	75
sp3662-004	75
sp3671-001	0.4
sp3671-002	1.3
sp3671-003	1.3
sp3671-004	1.3

Be sure to follow the instructions mentioned in the attached file
"EngineFW_V4.13_ReleaseNote#02K.doc", or the machine may result in a fatal error.

Version 4.12:14
Symptom Corrected:
- Paper feed jam occurs in Vacuum feed LCIT RT5000 especially with GENERIC thin
  paper due to the improper paper height parameters for feeding.
- Hue fluctuation in halftone area ia too much due to the improper parameters used
  in development process control.

IMPORTANT!
Procedure to upgrade the Engine F/W to the latest (V4.12:14) is different depending
on the version of the Engine F/W currently installed.
(See SP7-801-255 to verify the current Engine F/W version.) Be sure to follow the
instructions mentioned in the combined file "EngineFW_V4.12_ReleaseNote#01.doc",
or the machine may result in a fatal error.

1. System F/W should be upgraded to the ver 2.11 (M2056020N) or newer as a set.
2. After upgrading the Engine F/W to V4.12:14, change the following SP settings
   manually to the value shown below

SP Number	SP setting to be changed..
sp3623-052	51
sp3623-053	51
sp3623-054	51
sp3623-071	-0.9355
sp3623-072	88.31
sp3623-073	-1690
sp3623-074	0.0053
sp3623-075	0.02
sp3623-076	2
sp3623-081	-5.53
sp3623-082	508.2
sp3623-083	-10888
sp3623-084	1.3963
sp3623-085	-142.43
sp3623-086	3626
sp3660-121	0.005
sp3660-122	0.005
sp3660-123	0.005
sp3660-124	0.005
sp3662-001	75
sp3662-002	75
sp3662-003	75
sp3662-004	75
sp3671-001	0.4
sp3671-002	1.3
sp3671-003	1.3
sp3671-004	1.3

Version 4.10:14
Symptom Corrected:
- SC694-01(Data Transfer Unit: Ready notification timeout) appears when
  the DFE booting up takes time.
- SC694-05 (Data Transfer Unit: IBACC Enable flag timeout) appears when
  the IBACC stars just after the paper size changing or color changing
  after returning from energy saver mode.
- Development units keep running due to the abnormal process control.

Version 4.09:14
Symptoms Corrected:
- Grid-like pattern in light magenta appears on the prints.
- Continuously printing jobs consisted of only one or two pages causes SC670.
- IBACC pattern is falsely printed out, if the IBACC data is transferred while
  the system adjusts the fusing temperature.
- If the tray runs out of paper while switching the line speed (between standard
  and low), communication failure causes SC990.

Version 4.08:14
Symptoms Corrected:
- Image writing position shifts in sub scan direction.
- Productivity decreases with jobs that use setting "Pressure 1"
  of SP1151-010 (Pressure Setting: Pressure Position 1).

Version 4.07:14
Error corrections:
1) Color shift may occur, if a job is interrupted due to an empty feed tray.
2) Hue of the yellow may appear different, if printed on a different paper
   type from the preceding job, or if IBACC is performed.
3) Productivity decreases even if set to the productivity mode, if the target
   fusing temp changes.
4) In some cases of a glue binding job or a job that feeds a cover sheet from
   the cover interposer CI5030 or Perfect Binder GB5010, jam/dog-ear jam may
   occur because the line speed of the mainframe and peripheral(s) is not
   corresponding.
5) If the SD card is full of log data, the log data cannot be deleted,
   preventing further logging.

Specification changes:
1) Improved process conrol accuracy.
2) Improved accuracy in the amount of toner transfer by paper type.

Version 4.06:14
<Strong>
IMPORTANT!

Procedure to upgrade the Engine F/W to the latest (V4.06:14)
is different depending on the version of the Engine F/W
currently installed.
(See SP7-801-255 to verify the current Engine F/W version.)

Be sure to follow the release note and instructions bound in
the same downloaded ZIP file, or the machine may result in
a fatal error.
</Strong>

- SC991 error occurs, if printing booklets with the Plockmatic finisher
  using combination of specific settings.
- SC682 error might occur, if simultaneously performing the TD-sensor
  initial settings with multiple colors. See relating RTB#RM205148.

Version 4.05:14
- Engine keep idling at suspend printing (i.e. adjusting temperature,
  changing simplex/duplex etc) just after 1st sheet of any job
  (RE15110039)
- Image density fluctuation at changing on/off of 2nd quenching process
- ITB speed feedback failure possibly happened around the seam of its
  timing stripe; causing color to color registration

Version 4.04:14
- SC990 after changing WTB status from full to near-full during printing
- SC459 at paper jam using with PTB high pressure mode
- Print not start when simplex/duplex mixed, different fusing speed and
  different paper tray (RE15090037)
- SC990 when suspending printing in MUSIC process
- Cooling belt shift when opening/closing doors multiple times
- Enable the function to refresh developer
- Mismatch between some skilled op adjustments and corresponding SP
  settings (RE15090032,RE15100047)
- Web image monitor bug in some parameters of custom media function
  (RE15100049)

Version 4.03.2:14
- Not to feed the media located before PTB at jamming
- To suspend the development idling when working like staple function
- To increase ITB feedback sensor's output depending on the print volume,
  for preventing SC499
- SP settings were changed.

Version 4.02.2:14
- SP settings were changed.

Version 4.01:14
- SP settings were changed.

Version 3.00.0:13
- SP settings were changed.

Version 1.200A:13
1st Mass production