

Prinect DFE
(Machine Code:
M27241,M27242, M27243,
M27341,M27342, M27343)

Differences

June, 2015

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1. Differences

Differences between TotalFlow Print Server R-60/R-60A and Prinect DFE

1

The following is the differences between TotalFlow Print Server R-60/R-60A and Prinect DFE*:

- The Prinect DFE has a graphic board, USB board, and an additional HDD.
- Both two models share the same installation procedure.
- The local console is not provided for users to operate the Prinect DFE.
- Do not turn the power interlock switch ON for the Prinect DFE.
- The Prinect DFE comes with the monitor, mouse, and keyboard as standard.

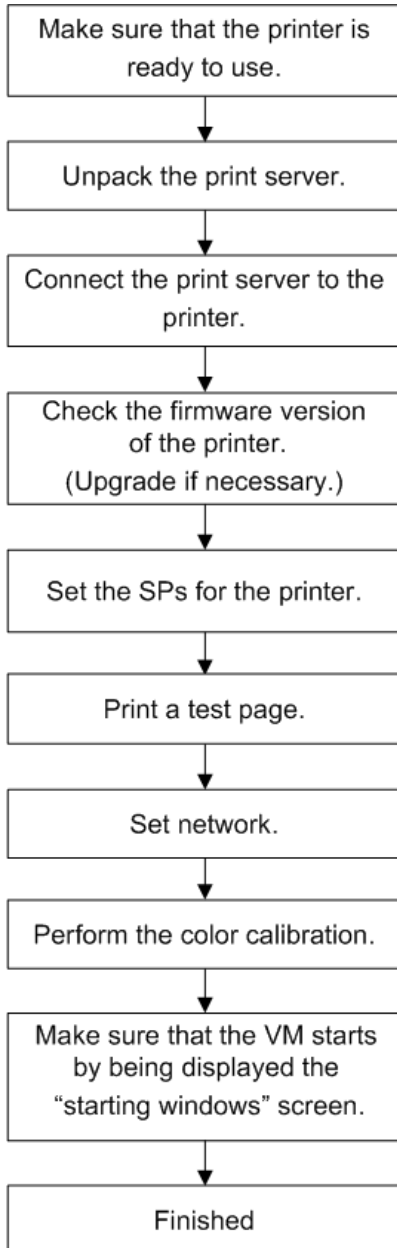
* OEM model for Heidelberg

Installation Flow Chart (For Prinect DFE)

First install the printer (Linoprint C7100 series/ Linoprint C9100 series).

Then install Prinect DFE.

Recommended installation steps are as follows:



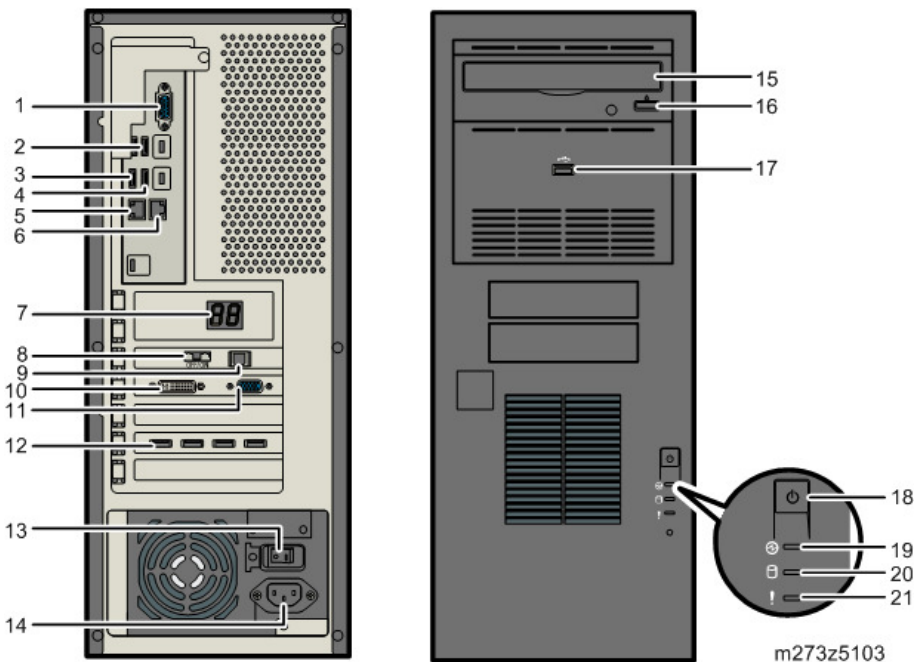
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Machine Installation (Differences)

Connector/ Front Panel

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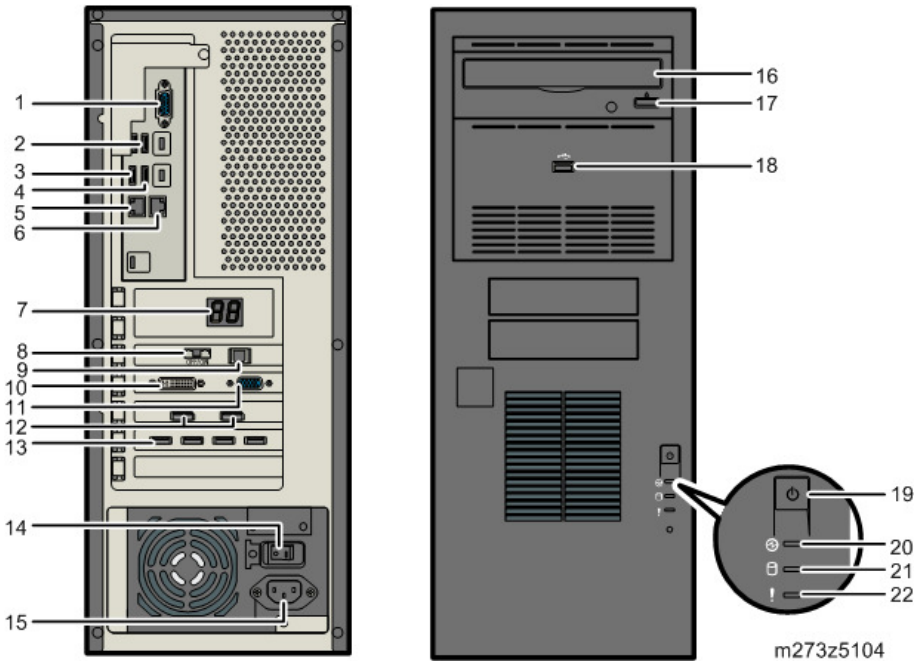
Prinect DFE for Linoprint C7100 series



No.	Name	No.	Name
1	VGA monitor port (not used)	12	USB port x4 (VM support)
2	USB port (backup)	13	Main power switch
3	USB port (not used)	14	Power connector
4	USB port (not used)	15	DVD drive
5	Gigabit Ethernet port (print server to network)	16	Disc eject button
6	Gigabit Ethernet port (printer to print server)	17	Front USB port
7	Digital display (7-segment)	18	Power switch
8	Power interlock switch (not used)	19	Power indicator

No.	Name	No.	Name
9	USB port for power interlock (not used)	20	HDD access indicator
10	DVI monitor port	21	System error indicator
11	VGA monitor port		

Princt DFE for Linoprint C9100 series



No.	Name	No.	Name
1	VGA monitor port (not used)	12	Data Transfer Unit Port
2	USB port (backup)	13	USB port x4 (VM support)
3	USB port (not used)	14	Main power switch
4	USB port (not used)	15	Power connector
5	Gigabit Ethernet port (print server to network)	16	DVD drive
6	Gigabit Ethernet port (printer to print server)	17	Disc eject button
7	Digital display (7-segment)	18	Front USB port

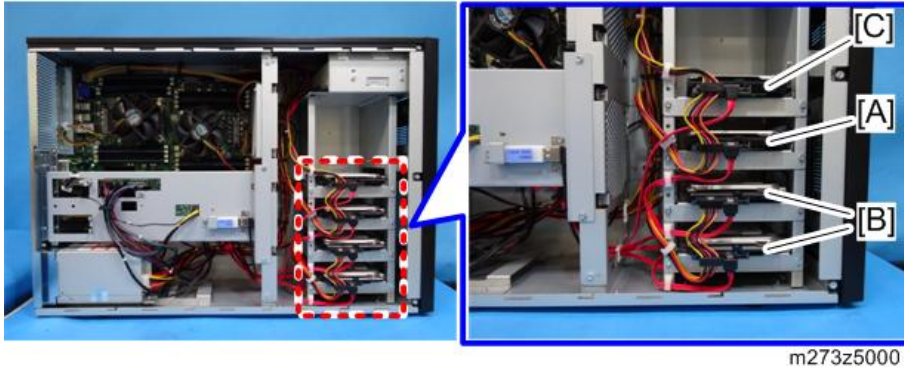
No.	Name	No.	Name
8	Power interlock switch (not used)	19	Power switch
9	USB port for power interlock (not used)	20	Power indicator
10	DVI monitor port	21	HDD access indicator
11	VGA monitor port	22	System error indicator

Unit Removal (Differences)

1

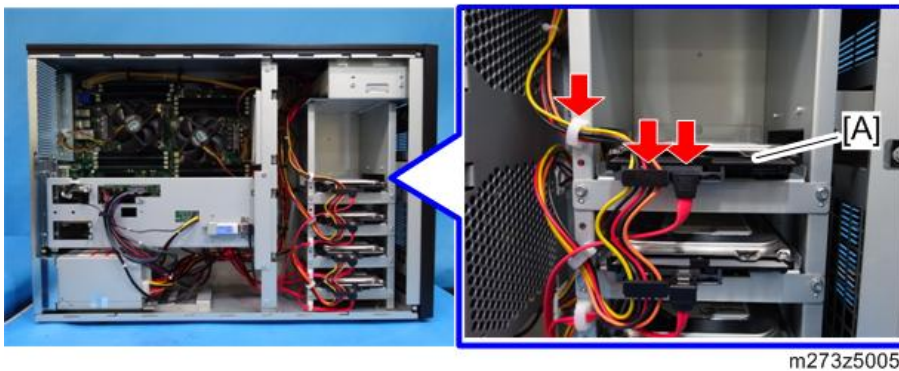
HDD

The print server has four HDDs. One is for operating system [A], the other two are for data storage [B] and the other one is for VM support [C].

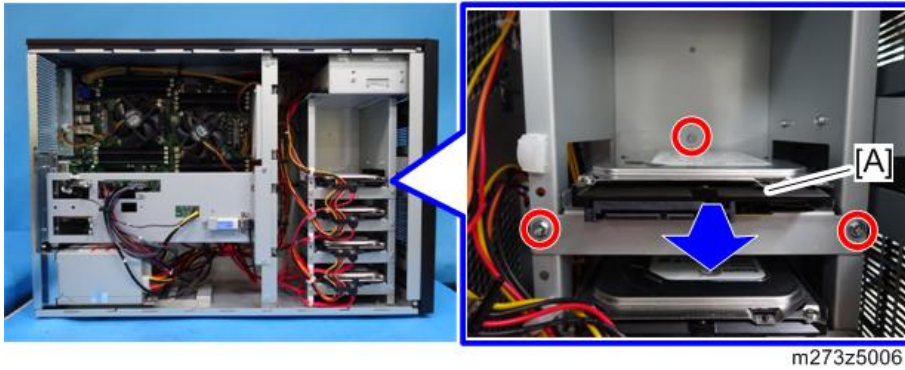


HDD (for VM Support)

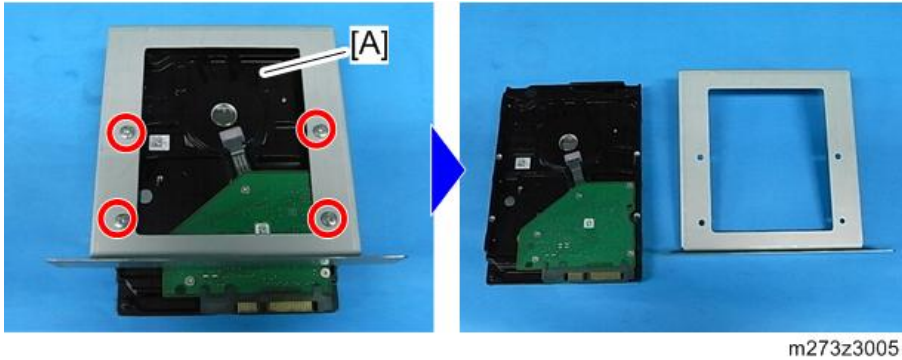
1. Remove the left cover.
2. Remove the connectors and clamp from the HDD (for VM support) [A]. (🔌 ×2, 🛠 ×1)



3. Remove the HDD (for VM support) [A] with the bracket. (⚙️ ×3)



4. Remove the HDD [A]. (⚙️ ×4)



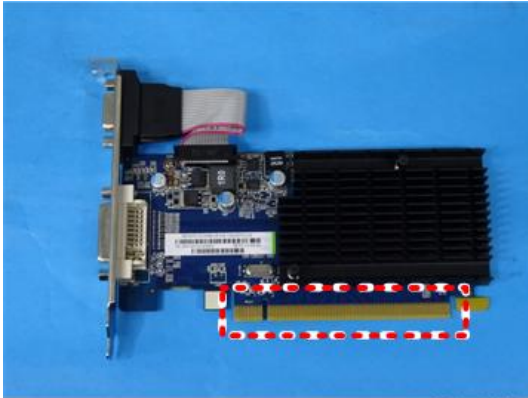
Note

- Windows VM and Prinect software are not installed in an HDD for replacement. Installing these software by Heidelberg's service representatives is required after doing the HDD replacement.

Graphic Board

⚠️ CAUTION

- Do not touch the terminal part of the graphic board. Clean with alcohol in case of touching the terminal.



m273z5007

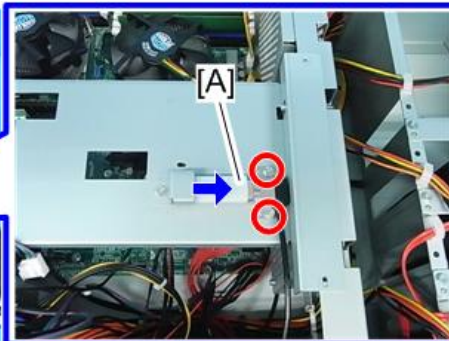
Prinect DFE for Linoprint C7100 series

1. Remove the left cover.
2. Lay down the machine.



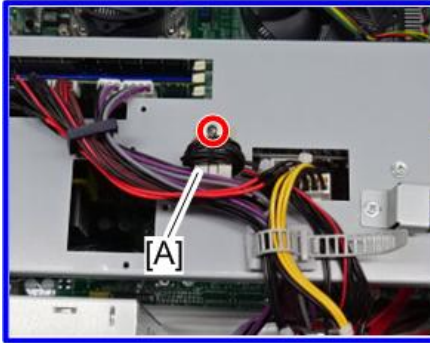
m273z3008

3. Remove the USB socket [A] with the USB dongle. (🔧×2)

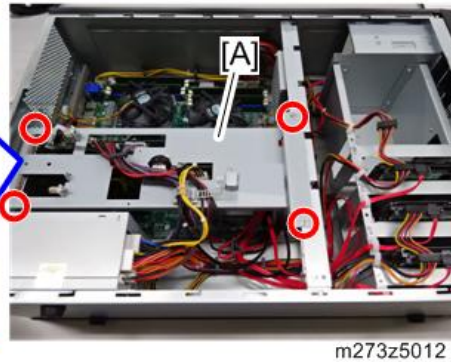
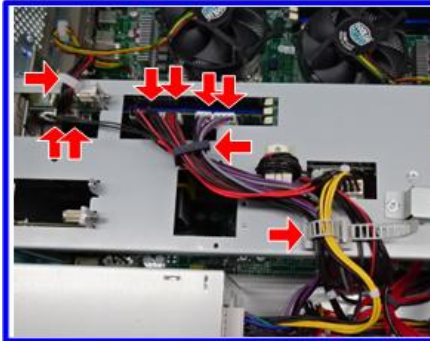


m273z3020

4. Release the ferrite core [A]. (🔧×1)

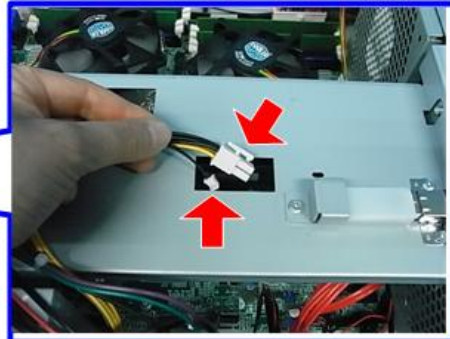
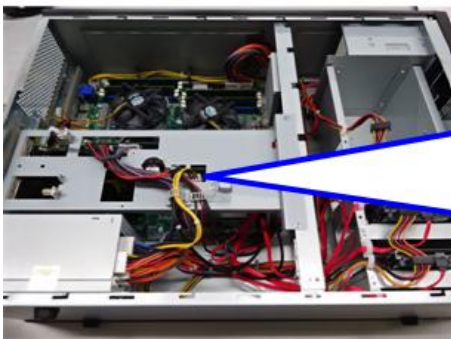


5. Remove the connectors on to the PIC board, and then remove the bracket [A]. (🔧×6, 🛠️×3, 🔧×4)



↓ Note

- There are two unconnected connectors that are not used. Put them into the hole in the bracket.



6. Remove the graphic board [A]. (⚙️×1)

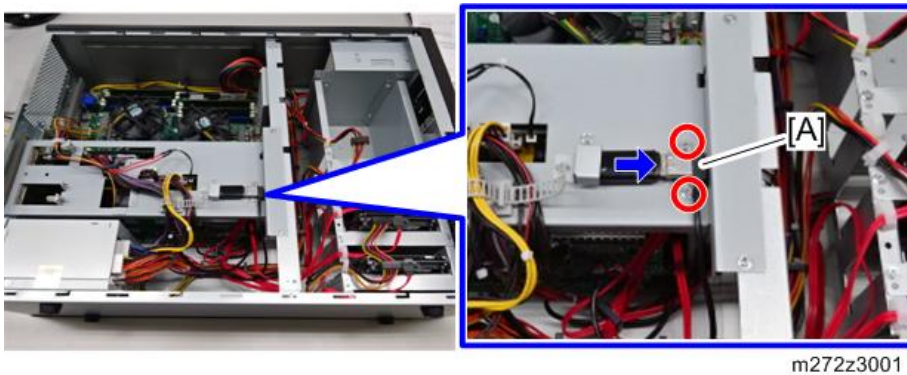


Princt DFE for Linoprint C9100 series

1. Remove the left cover.
2. Lay down the machine.



3. Remove the USB socket [A] with the USB dongle. (⚙️×2)

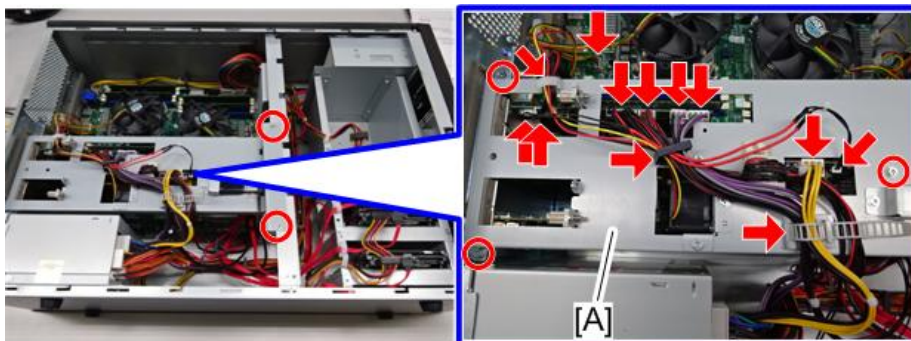


4. Release the ferrite core [A]. (🔧×1)



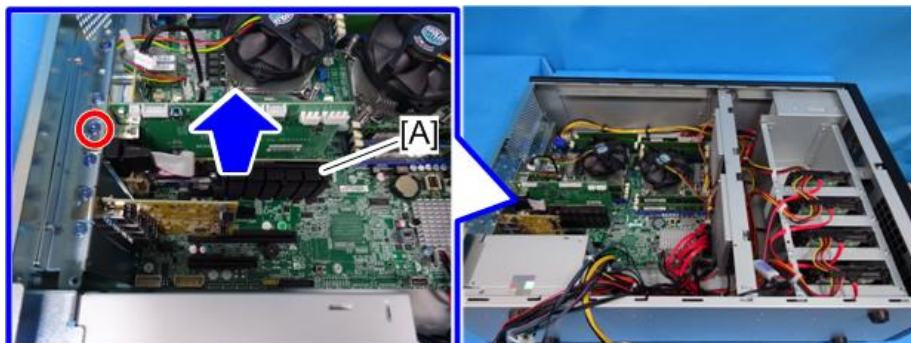
m272z3002

5. Remove the connectors on the PIC board, and then remove the bracket [A]. (🔧×9, 📏×3, 📏×5)



m272z3014

6. Remove the graphic board [A]. (🔧×1)



m273z5008

USB Board

CAUTION

- Do not touch the terminal part of the USB board. Clean with alcohol in case of touching the terminal.



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Prinect DFE for Linoprint C7100 series

1. Remove the left cover.
2. Lay down the machine.

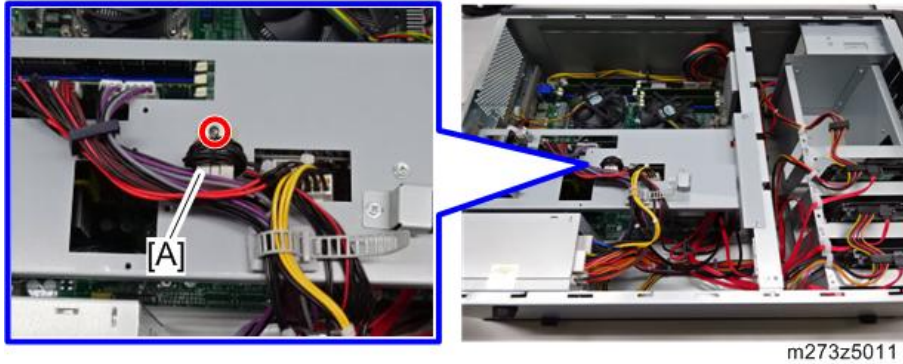


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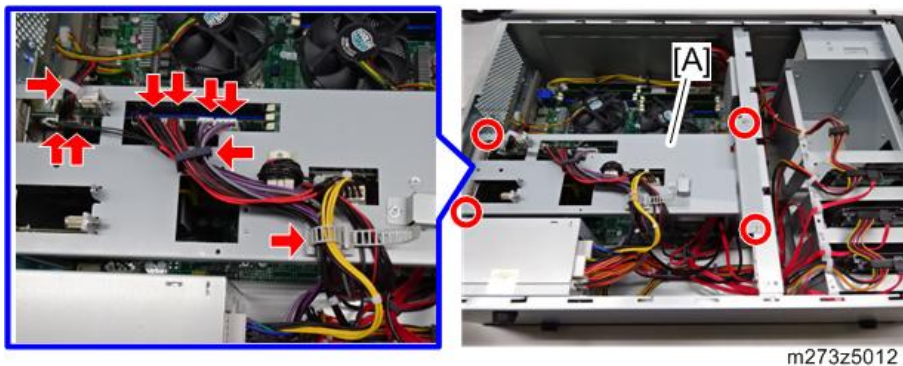
3. Remove the USB socket [A] with the USB dongle. (🔧×2)



4. Release the ferrite core [A]. (🔧×1)

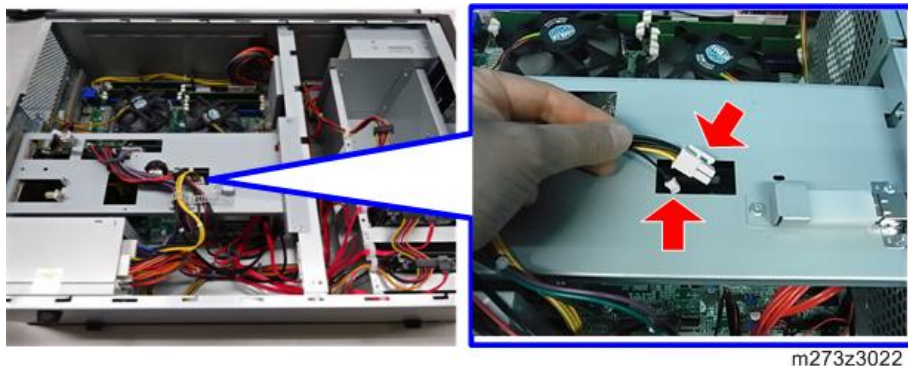


5. Remove the connectors on the PIC board, and then remove the bracket [A]. (🔧×6, 🛠️×3, 🔧×4)



↓ Note

- There are two unconnected connectors that are not used. Put them into the hole in the bracket.



6. Remove the USB board [A]. (🔧×1)

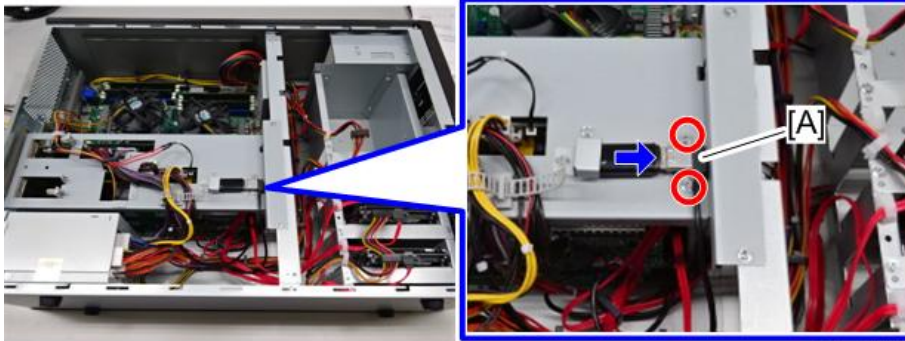


Prinect DFE for Linoprint C9100 series

1. Remove the left cover.
2. Lay down the machine.



3. Remove the USB socket [A] with the USB dongle. (🔧×2)



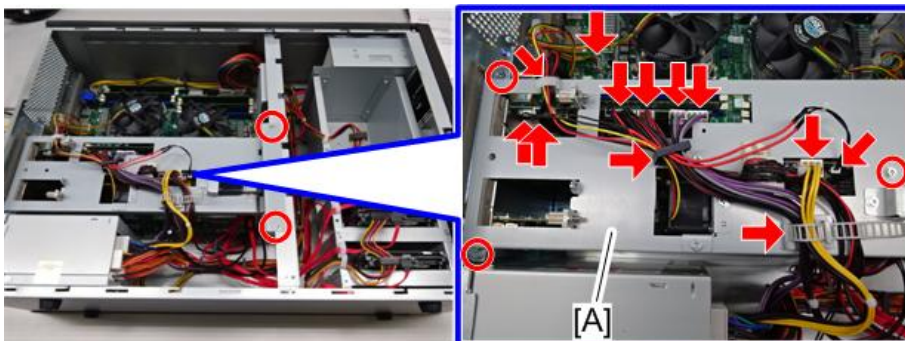
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4. Release the ferrite core [A]. (🔧×1)



m272z3002

5. Remove the connectors on the PIC board, and then remove the bracket [A]. (🔧×9, 🛠×3, 🔧×5)



m272z3014

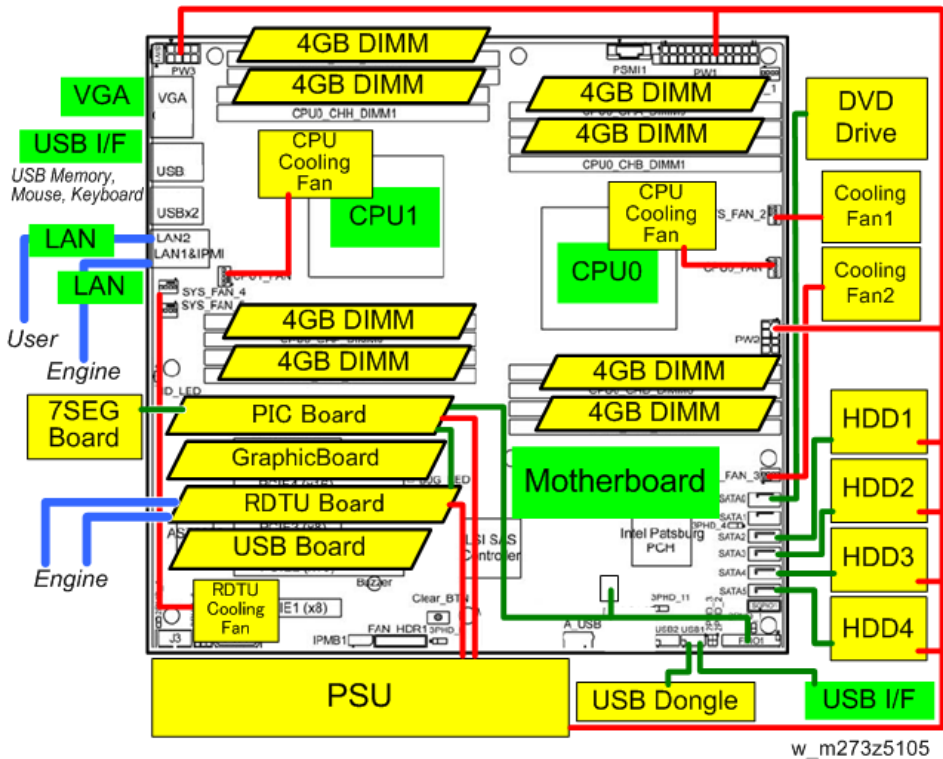
6. Remove the USB board [A]. (🔧×1)



m273z5010

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Prinect DFE for Linoprint C9100 series



Functions

Network

Cable requirements:

- 10BaseT (Ethernet): Unshielded Twisted Pair (UTP), Category 3 or higher
- 100BaseTX (Fast Ethernet): UTP, Category 5 or higher (4-pair/8-wire, short length)
- 1000BaseT (Gigabit Ethernet): UTP, Category 5e or higher (4-pair/8-wire, short-length)

PIC Board

When the power interlock switch is ON at the print server, it can recognize the power ON/OFF status of the printer.

When the USB cable for power interlock is connected, it can recognize the power ON/OFF status of the printer. (Only Prinect DFE for Linoprint C7100 series)

RDTU Board

Performs as an interface * between the print server and the printer.

* Command/Status I/F and Image Data I/F

HDD

The print server has four HDDs:

- HDD 1 for operation system
- HDD 2/ HDD 3 for data storage with RAID0
- HDD 4 for VM support

Motherboard

- CPU: 2.6GHz × 2
- SDRAM: 4GB (1600MHz DDR3, 240 pin) × 8, Total 32GB
- Performs a self-diagnosis by BIOS and displays the error code to the digital display board (7-segment).

Digital Display Board

Displays the status of the print server by 7-segment.

USB Dongle

Stores product information such as a license.

The print server cannot be used without USB dongle.

DVD Drive

The DVD drive can read the items below.

- Print data
- File for system updating
- User created ICC profiles
- Font data

Note that these data cannot be written into the DVD, because the DVD drive is read only.

USB I/F

USB I/F are used in the following purpose.

Front USB port

1. Reading the following data are saved in the USB memory:
 - Print data
 - File for system updating
 - User created ICC profiles
 - Font data
2. Writing the following data to USB memory:
 - Tracing data
 - Logging data

USB port (backup)

Backing up automatically for configuration data

USB port (VM support)

For VM support

Graphic Board (for VM support)

- Sapphire Radeon HD5450 1G DDR3 PCI-E
- Up to 2,560 × 1,600 32bpp 60Hz
- VM pass through capable

USB Board (for VM support)

- Sunix USB4300NS
- USB 3.0 ports × 4

Specifications (for Prinect DFE)

General Specifications

1

Prinect DFE for Linoprint C7100 series

Item	Description
CPU	Intel Xeon E5-2630v2 2.6GHz ×2
Memory	32 GB (4 GB ×8)
HDD	SATA connection 1TB3.5 inch HDD (7,000rpm) ×4
DVD Drive	SATA connection DVD-ROM drive
Interface	Gigabit Ethernet ×2 (100BASE-TX/10BASE-T/1000BASE-T), USB2.0 Type-A ×8 (Front ×1, Rear ×7), USB2.0 Type-B, VGA×2, DIV
Input Data Streams	Only a down-link from Prinect
Print Resolution	1,200dpi (2bit)
Input Data Streams	PDF -Version 1.7
Built-in Fonts	Roman PS font: 136 fonts
Power Source	100-240 V, 4.8 A, 50/60MHz
Power Consumption	400 W
Dimensions (W x D x H)	178 × 650 × 444 mm (7.0 × 25.6 × 17.5 inches)
Weight	Approximately 22 kg (4.41 lbs.)

Prinect DFE for Linoprint C9100 series

Item	Description
CPU	Intel Xeon E5-2630v2 2.6GHz ×2
Memory	32 GB (4 GB ×8)

Item	Description
HDD	SATA connection 1TB3.5 inch HDD (7,000rpm) ×4
DVD Drive	SATA connection DVD-ROM drive
Interface	Gigabit Ethernet ×2 (100BASE-TX/10BASE-T/1000BASE-T), USB2.0 Type-A ×8 (Front ×1, Rear ×7), USB2.0 Type-B, RDTU×2, VGA×2, DIV,
Input Data Streams	Only a down-link from Prinect
Print Resolution	1,200 dpi (8bit)
Input Data Streams	PDF -Version 1.7
Built-in Fonts	Roman PS font: 136 fonts
Power Source	100-240 V, 4.8 A, 50/60MHz
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Dimensions (W x D x H)	178 × 650 × 444 mm (7.0 × 25.6 × 17.5 inches)
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