Product: 2010 Canon ImageRunner Advance 8105/8095/8085 Series Service Repair Workshop Manual
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August 10, 2010
Revision 2

imageRUNNER ADVANCE 8105 / 8095 / 8085 Series Service Manual

Product Overview
Technology
Periodic Service
Parts Replacement and Clearning
Adjustment
Troubleshooting
Error Code
Service Mode
Installation
Appendix

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Application

This manual has been issued by Canon Inc. for qualified persons to learn technical theory, installation, maintenance, and repair of products. This manual covers all localities where the products are sold. For this reason, there may be information in this manual that does not apply to your locality.

Corrections

This manual may contain technical inaccuracies or typographical errors due to improvements or changes in products. When changes occur in applicable products or in the contents of this manual, Canon will release technical information as the need arises. In the event of major changes in the contents of this manual over a long or short period, Canon will issue a new edition of this manual.

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Explanation of Symbols

The following symbols are used throughout this Service Manual.

Symbols	Explanation
	Check.
	Check visually.
	Check the noise.
	Disconnect the connector.
	Connect the connector.
	Remove the cable/wire from the cable guide or wire saddle.
	Set the cable/wire to the cable guide or wire saddle.
	Remove the screw.
	Tighten the screw.

Symbols	Explanation
	Remove the claw.
	Insert the claw.
	Use the bundled part.
	Push the part.
	Plug the power cable.
	Turn on the power.

The following rules apply throughout this Service Manual:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.

   In the diagrams, ▮▮▮ represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow ⟶ indicates the direction of the electric signal.

   The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (*) as in "DRMD*" indicates that the DRMD signal goes on when '0'.

   In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine.

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Safety Precautions

- CDRH Act
- Laser Safety
- Handling of Laser System
- Turn power switch ON
- Safety of Toner
- Notes Before it Works
- Serving
- Points to Note at Cleaning

imageRUNNER ADVANCE

8105 PRO/8095 PRO/8085

PRO Series

CDRH Act

The Center for Devices and Radiological Health of the US Food and Drum Administration put into force regulations concerning laser products on August 2, 1976. These regulations apply to laser products manufactured on and after August 1, 1976, and the sale of laser products not certified under the regulations is banned within the Untied States. The label shown here indicates compliance with the CDRH regulations, and its attachment is required on all laser products that are soled in the United States.

CANON INC.
30-2,SHIMOMARUKO,3-CHOME,OHTA-KU,TOKYO,
146.JAPAN
MANUFACTURED :
THIS PRODUCT CONFORMS WITH DHHS RADIATION
PERFORMANCE STANDARD 21CFR CHAPTER1
SUBCHAPTER J.

F-0-1

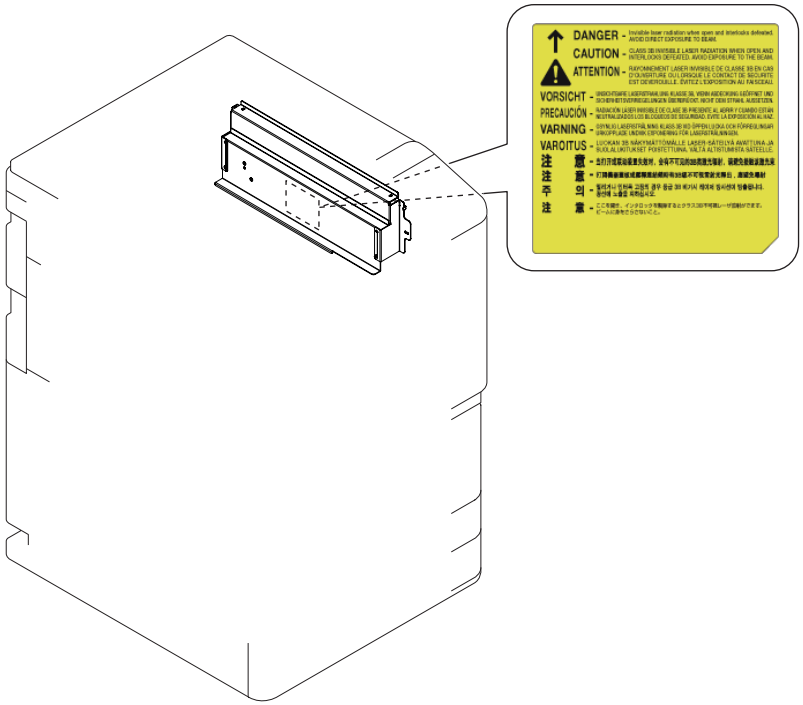
⚠
A different description may be used for a different product.

Laser Safety

Laser beam radiation may pose a danger to the human body. A laser scanner mounted on the machine is sealed with the protection housing and external cover to prevent the laser beam from leaking to the outside. The laser beam never leaks out of the scanner as far as users operate the machine normally.

Handling of Laser System

When servicing the area around the laser assembly, be sure to turn off the main power. The machine's covers that can reflect laser light are identified by means of a warning label (Figure). If you must detach a cover showing the label, be sure to take extra caution during the work.



F-0-2

Turn power switch ON

The machine is equipped with 2 power switches: main power switch and control panel power switch.
The machine goes on when the main power switch is turned on (i.e., other than in low power mode, sleep mode).

⚠
Do not turn off the main power switch while the progress bar is indicated, during which access is made to the HDD. If deprived of power, the HDD can suffer a fault (E602).

F-0-3

Safety of Toner

About Toner

The machine's toner is a non-toxic material made of plastic, iron, and small amounts of dye.

⚠
Do not throw toner into fire. It may cause explosion.

Toner on Clothing or Skin

- If your clothing or skin has come into contact with toner, wipe it off with tissue; then, wash it off with water.
- Do not use warm water, which will cause the toner to jell and fuse permanently with the fibers of the cloth.
- Tonner is easy to react with plastic material, avoid contact with plastic.

⚠
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Notes Before it Works Serving

⚠
At servicing, be sure to turn OFF the power source according to the specified steps and disconnect the power plug.

Points to Note at Cleaning

⚠

When performing cleaning using organic solvent such as alcohol, be sure to check that the component of solvent is vaporized completely before assembling.

Product Overview

- Product Lineup
- Features
- Specifications
- External View/Internal View
- Operation

Product Lineup

Main Body

imageRUNNER ADVANCE 8105 / 8095 / 8085

*The underlined numerical value indicates the print speed (ppm: print per minute).

F-1-1

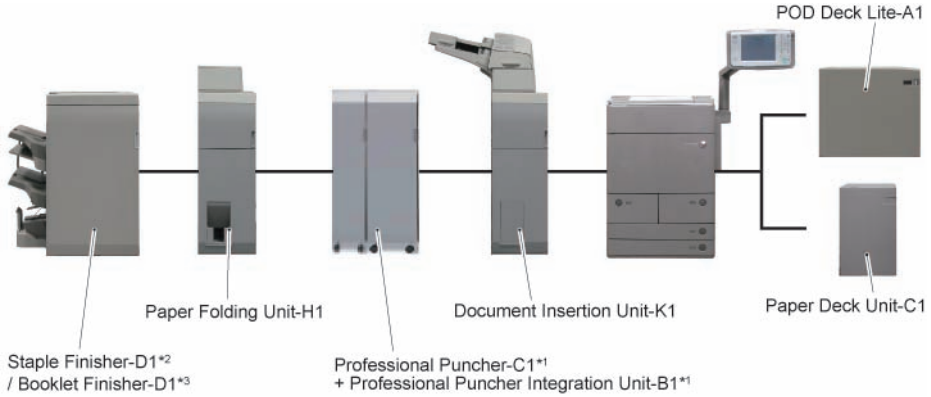
	imageRUNNER ADVANCE 8105	imageRUNNER ADVANCE 8095	imageRUNNER ADVANCE 8085
Print speed	105 ppm	95 ppm	85 ppm
Positioning	Target machine: iR7105		
Control Panel	Upright Control Panel		
HDD	Standard: 80 GB, Maximum: 250 GB		
Communication method with pickup/delivery option Pickup/delivery option	IPC (Inter Process Communication)		

T-1-1

Pickup/Delivery System Option

Applicable Option for Each Model

Combination



F-1-2

*1: Other than CMJ, CCN, TAIWAN

*2: Puncher Unit- BE1/BF1/BG1/BH1 is available as an option.

*3: Puncher Unit- BE1/BF1/BG1/BH1 and Inner Trimmer-A1 are available as an option.

■ Required Options/Conditions

● Pickup System Options

Product name	Required options, conditions, etc.
Paper Deck Unit-C1	Pickup method: retard method Pickup capacity: 3,500 sheets (80 g/m^2) Paper type: thin paper, plain paper, heavy paper, color paper, recycled paper, pre-punched paper Paper size: A4, B5, LTR Paper weight: 52 to 220 g/m^2 Double feed detection: not available
POD Deck Light-A1	Pickup method: air separation method Pickup capacity: 3,500 sheets (80g/m^2) Paper type: thin paper, plain paper, heavy paper, color paper, recycled paper, pre-punched paper Paper size: B5 to 13” x 19.2” Paper weight: 52 to 256 g/m^2 Double feed detection: not available
Cassette Heater Unit-38	For cassette of main body CLA, CAUS, CSPL, CHK, CCN, CKBS, TAIWAN only
Paper Deck Heater Unit-A1	Option for Paper Deck Unit-C1 CMJ, CLA, CSPL, CHK, CKBS, TAIWAN only In the 230V areas other than the areas above, this is set as a service part.

T-1-2

● Delivery System Options

Product name (Japan)	Required options, conditions, etc.
Insertion Unit-K1	Staple Finisher/Booklet Finisher is required at the downstream side. Pickup capacity: Max. 400 sheets (200 sheets each for Upper Tray and Lower Tray) Paper type: thin paper, plain paper, heavy paper, color paper, recycled paper, pre-punched paper, Index paper, Tracing paper, coated paper Paper size: B5 to 13” x 19.2” Paper weight: 52 to 256 g/m^2
Professional Puncher-C1	Professional Puncher Integration Unit-B1 is required. Staple Finisher/Booklet Finisher is required at the downstream side. Other than CMJ, CCN, TAIWAN
Professional Puncher Integration Unit-B1	A pair with Professional Puncher-C1 Staple Finisher/Booklet Finisher is required at the downstream side. Other than CMJ, CCN, TAIWAN
Paper Folding Unit-H1	Staple Finisher/Booklet Finisher is required at the downstream side. Folding type: Z-Fold, C-Fold, Half-Fold, Accordion Z-Fold, Double Parallel Fold Paper size: A4R, LTRR (Z-Fold: A3, B4, A4R, LTRR, LGL, 11” x 17”) Paper weight: 52 to 105 g/m^2 (Double Parallel Fold: 52 to 90 g/m^2)
Staple Finisher-D1	Paper weight: 52 to 256 g/m^2 Maximum stacking capacity: 4250 sheets (A4, B5, LTR) The number of sheets to be stitched: 100 sheets (A4, B5, LTR)
Booklet Finisher-D1	Paper weight: 52 to 256 g/m^2 Maximum stacking capacity: 4250 sheets (A4, B5, LTR) Staple: 100 sheets (A4, B5, LTR) Saddle: 20-sheet saddle stitching
Puncher Unit-BE1	Option for Staple Finisher-D1/Booklet Finisher-D1. AB, 2 holes Paper size : A3, A4, A4R Paper weight: 52 to 256 g/m^2 CMJ only
Puncher Unit-BF1	Option for Staple Finisher-D1/Booklet Finisher-D1. Inch, 2 holes / 3 holes Paper size : 11” x 17”, LGL, LTR, A3, A4 Paper weight: 52 to 256 g/m^2 CUSA, CCI, CLA, CAUS, CKBS only
Puncher Unit-BG1	Option for Staple Finisher-D1/Booklet Finisher-D1. FRN, 2 holes / 4 holes Paper size : A3 to A4 Paper weight: 52 to 256 g/m^2 Other than CMJ, CUSA, CCI
Puncher Unit-BH1	Option for Staple Finisher-D1/Booklet Finisher-D1. SWE, 4 holes Paper size : A3 to A4 Paper weight: 52 to 256 g/m^2 CEL only
Staple-P1	Saddle Staple Cartridge. Option for Booklet Finisher-D1.
Staple-G1	Plain Staple Cartridge. Option for Staple Finisher-D1/Booklet Finisher-D1.

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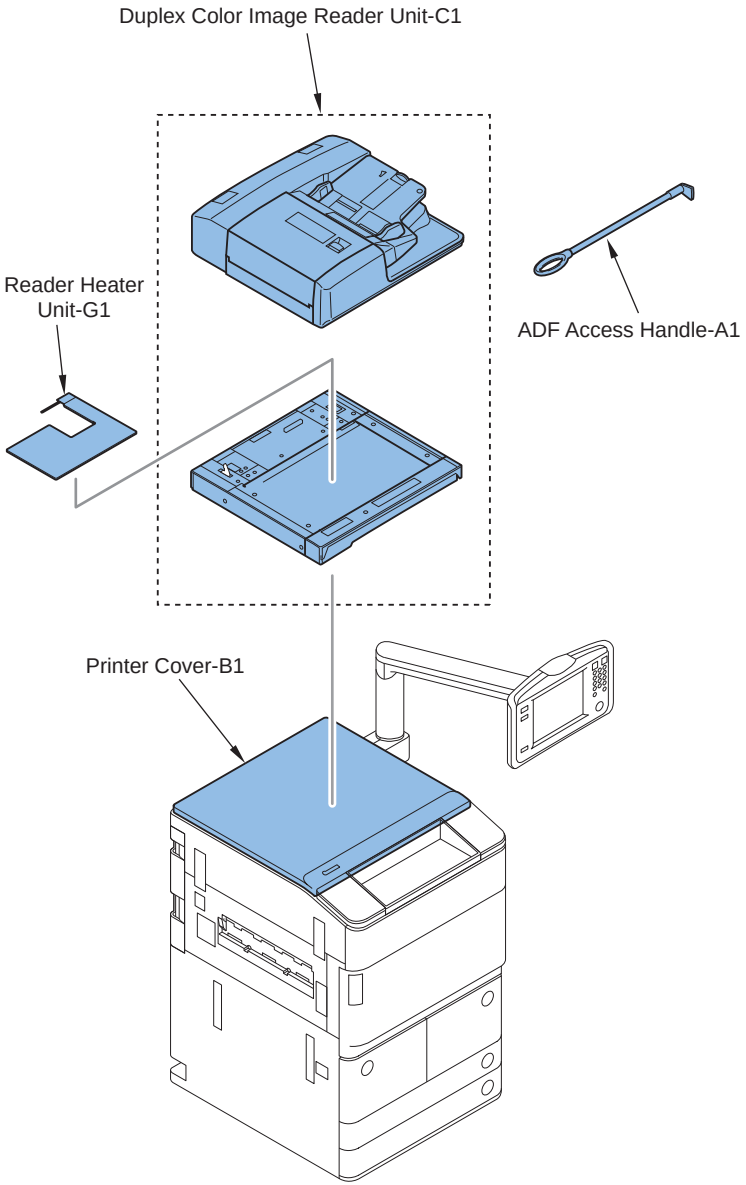
Scanning System Options

Required Options and Conditions



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Product name	Required options, conditions, etc.
Multi Color Image Reader Unit-C1	Reverse 2-sided scanning B/W (1-sided/2-sided): 600 dpi=85/40 ipm, 300 dpi: 85/40 ipm Color (1-sided/2-sided): 600 dpi=51/20 ipm, 300 dpi:85/40 ipm Paper weight: <1-sided> AB configuration: 38 to 220 g/m^2, Inch configuration: 50 to 220 g/m^2 <2-sided> 50 to 220 g/m^2 Color original, or color-mixed original: 64 to 220 g/m^2 Stacking capacity: Max. 300 sheets Other than CEL
Reader Heater Unit-G1	Option for Color Image Reader Unit-C1/Multi Color Image Reader Unit-C1 CMJ, CLA, CSPL, CHK, CCN, CKBS, TAIWAN only
ADF Access Handle-A1	It is the cover to be installed at the top of the host machine when using this equipment as a printer model.
Printer Cover-C1	It is the handle to support opening and closing the Feeder.

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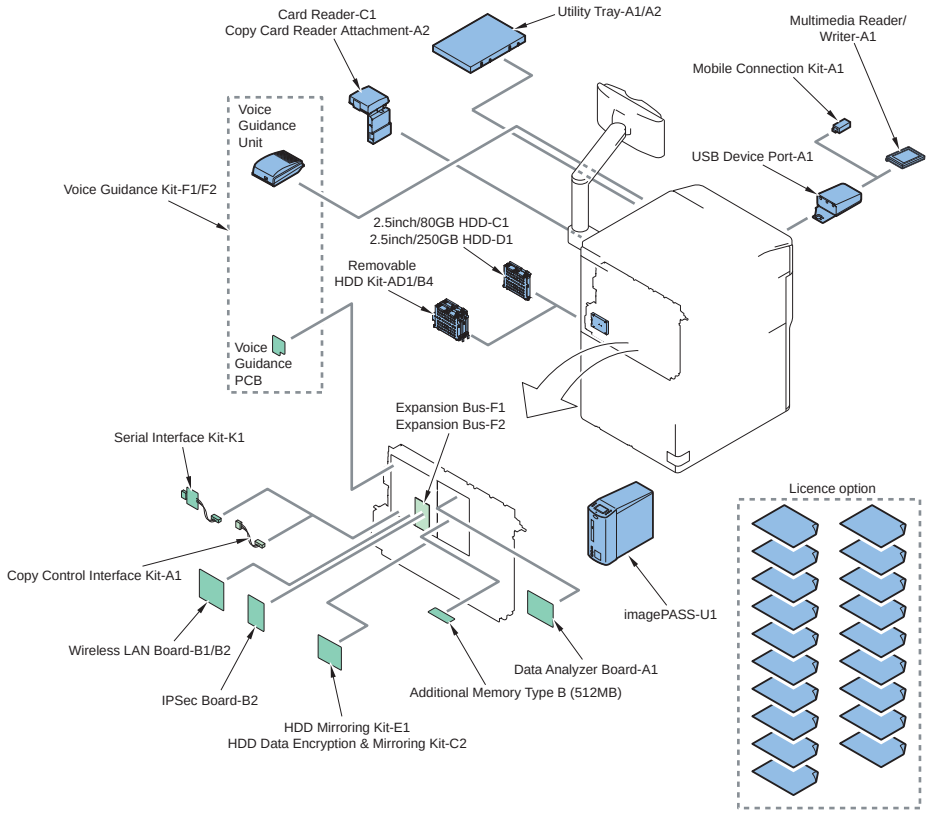
Function Expansion System Options

Required Options and Conditions



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Hardware Products

Product name (Japan)	Required options, conditions, etc.
Utility Tray-A1	No particular options and conditions are required.
Card Reader-C1	Copy Card Reader Installation Kit-A2 is required. Using with Serial Interface Kit-K1 and Control Interface Kit-A1 is not available.
Copy Card Reader Installation Kit-A2	Required when Card Reader-C1 is installed.
imagePASS-U1	No particular options and conditions are required. Other than CMJ, CCN
Voice Guidance Kit-F1	Product configuration consists of Voice Guidance PCB and Voice Guidance Unit. No particular options and conditions are required. Other than CMJ, CCN, CKBS
HDD Data Encryption/Mirroring Kit-C2	Not available for China models.
USB Device Port-A1	The product consists of USB 2 Port HUB PCB only. No particular options and conditions are required. CEL is standard
Expansion Memory Type B (512 MB)	Required when 600dpi color scanning (mode) is used.
Wireless LAN Board-B1/B2	No particular options and conditions are required. Other than CMJ, CCN, CKBS, TAIWAN
Option HDD (2.5 inch/80GB)-C1	This is used when the mirroring function is used with HDD Mirroring Kit-E1 or HDD Data Encryption & Mirroring Kit-C2. No particular options and conditions are required.
Option HDD (2.5 inch/250GB)-D1	This is used when the mirroring function is used with HDD Mirroring Kit-E1 or HDD Data Encryption & Mirroring Kit-C2. No particular options and conditions are required.
HDD Mirroring Kit-E1	Option HDD (2.5 inch/80 GB)-C1 or Option HDD (2.5 inch/250 GB)-D1 are required.
HDD Data Encryption/Mirroring Kit-C2	When performing mirroring, either the Option HDD (80GB) or the Option HDD (250GB) is required. Other than CCN
Removable HDD Kit-AD1	No particular options and conditions are required.
PCI Bus Expansion Kit-F1/F2	Required when IPSec Security Board-B2/Wireless LAN Board-B1 is installed.
IPSec Security Board-B2	PCI Bus Expansion Kit-F1/F2 is required. The function needs to be activated by entering the license number. Parallel use with imagePRESS-U1 is not available. Other than CCN
Image Analysis Board-A1	No particular options and conditions are required. CMJ only
Multimedia Reader/Writer-A1	USB Device Port-A1 is required. To support the CF, the SD memory and the memory stick.
Mobile Connection Kit-A1	Required when USB Device Port-A1 is installed. CMJ only
SC Kit	CMJ only
Serial Interface Kit-K1	Required when the coin manager is connected. Using with Card Reader-C1 and Control Interface Kit-A1 is not available.
Control Interface Kit-A1	Required when the coin manager is connected. Using with Card Reader-C1 and Serial Interface Kit-K1 is not available.

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Product: 2010 Canon ImageRunner Advance 8105/8095/8085 Series Service Repair Workshop Manual
Full Download: https://www.arepairmanual.com/downloads/2010-canon-imagerunner-advance-810580958085-series-service-repair-workshop-manual/

License Products

At the time of installation, obtain the license number according to the license certificate included. Then, enter the obtained license number from the Control Panel of the machine, so that the applicable functions are enabled.
There is no physical installation work at the time of installation.

Product name (Japan)	Required options, conditions, etc.
PS Expansion Kit-AH1	No particular options and conditions are required. CMJ only
LIPS V Expansion Kit-AJ1	No particular options and conditions are required. CMJ only
PCL Printer Kit-AH1	No particular options and conditions are required. Other than CMJ, TAIWAN
PS Printer Kit-AH1	No particular options and conditions are required. Other than CMJ, TAIWAN
Scan Solution Function Expansion Kit-B1	No particular options and conditions are required. CMJ only
Universal Send Advanced Feature Set-E1	No particular options and conditions are required. Other than CMJ
Scan Solution Security Function Expansion Kit-A1	No particular options and conditions are required. CMJ only
Universal Send Security Feature Set-D1	No particular options and conditions are required. Other than CMJ, CCN
Direct Print Expansion Kit (for PDF/XPS)-H1	No particular options and conditions are required. CMJ, CUSA, CLA, CCI, CEL, CAUS only
Direct Print Kit (for PDF)-H1	No particular options and conditions are required. CLA, CSPL, CHK, CCN, CKBS, TAIWAN only
Direct Print Kit (for XPS)-H1	No particular options and conditions are required. CLA, CSPL, CHK, CCN, CKBS, TAIWAN only
User Signature & Time Stamp Expansion Kit-A1	No particular options and conditions are required. CMJ only
Universal Send Digital User Signature Kit-C1	No particular options and conditions are required. Other than CMJ
Remote Operation Kit-B1	No particular options and conditions are required.
Data Erase Kit-C1	No particular options and conditions are required.
Encryption Secure Print Kit-B1	No particular options and conditions are required. CMJ only
Encrypted Secure Print Software-D1	No particular options and conditions are required. CUSA, CLA, CCI only
Encrypted Printing Software-D1	No particular options and conditions are required. CEL, CAUS, CSPL, CHK, TAIWAN only
Barcode Printing Kit-D1	Other than CMJ
Watermark Expansion Kit-B1	No particular options and conditions are required.
Job Lock Expansion Kit-A1	No particular options and conditions are required.
Access Management System Expansion Kit-B1	No particular options and conditions are required. Other than CKBS, TAIWAN
Web Browser Expansion Kit-H1	No particular options and conditions are required. Other than CKBS

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