

Canon Ipf605 Service Manual

Service Manual

iPF600 series
iPF605

The Canon logo, consisting of the word "Canon" in a bold, sans-serif typeface.

Apr 11 2008

[DOWNLOAD HERE](#)

This is official Canon iPF605 Service Manual as used by professional technician to maintain and repair the Canon iPF605 large format printer. Canon iPF605 Service Manual comes with separated Canon iPF605 Parts Catalog. Table Of Contents Chapter 1 PRODUCT DESCRIPTION 1.1 Product Overview

.....1- 1 1.1.1 Product Overview1-

1 1.2 Features

.....1- 2 1.2.1 Features

.....1- 2 1.2.2 Printhead

.....1- 2 1.2.3 Ink Tank.....

..1- 2 1.2.4 Cutter.....

.....1- 2 1.2.5 Roll Feed Unit.....1- 2

1.2.6 Stand

.....1- 4 1.2.7 IEEE1394 (FireWire) Board.....1- 4 1.2.8 Consumables.....

.....1- 5 1.3 Product Specifications

.....1- 6 1.3.1 Product Specifications1-

6 1.4 Detailed Specifications

.....1- 8 1.4.1 Print Speed and Direction.....1- 8

1.4.2 Interface Specifications

..... 1- 12 1.5 Names and Functions of Components1- 13 1.5.1 Front

.....

1- 13 1.5.2

Rear.....

..... 1- 14 1.5.3 Top Cover

(Inside)..... 1- 14

1.5.4 Manual Loading Area

..... 1- 15 1.5.5 Roll

Feed Unit Cover (Inside)

1- 16 1.5.6

Carriage.....

..... 1- 16 1.5.7 Inside

..... 1-

17 1.6 Basic Operation

.....1- 18 1.6.1

Operation

Panel..... 1- 18

1.6.2 Main

Menu.....

1- 19 1.7 Safety and Precautions

.....1- 35 1.7.1 Safety

Precautions 1-

35 1.7.1.1 Moving Parts

.....

. 1- 35 1.7.1.2 Adhesion of Ink

.....

1- 35 1.7.1.3 Electric

Parts.....

..... 1- 36 1.7.2 Other

Precautions..... 1-

37 1.7.2.1

Printhead.....

..... 1- 37 1.7.2.2 Ink Tank

.....

..... 1- 38 1.7.2.3 Handling the Printer

..... 1- 38

1.7.3 Precautions When Servicing

Printer..... 1- 41 1.7.3.1 Notes on

the Data Stored in the Printer

..... 1- 41 1.7.3.2 Confirming

the Firmware Version

..... 1- 41 1.7.3.3

Precautions against Static Electricity

..... 1- 41 1.7.3.4

Precautions for

Disassembly/Reassembly.....

1- 41 1.7.3.5 Self-diagnostic Feature

..... 1- 41

1.7.3.6 Disposing of the Lithium Battery

..... 1- 41 Chapter 2

TECHNICAL REFERENCE 2.1 Basic Operation

Outline.....2- 1 2.1.1 Printer

Diagram2-

1 2.1.2 Print Signal Sequence

.....2- 2 2.1.3 Print

Driving

.....2- 3

Contents 2.2 Firmware

..... 2- 5 2.2.1

Operation Sequence at
Power-on.....2- 5 2.2.2

Operation Sequence at
Power-off.....2- 6 2.2.3 Print
Control
.....2- 7

2.2.4 Print Position Adjustment Function
.....2- 12 2.2.5 Head
Management2-

12 2.2.6 Printhead Overheating Protection Control
.....2- 12 2.2.7 Pause between
Pages.....2- 12 2.2.8

White Raster Skip
.....2- 12 2.2.9

Sleep
Mode.....2-

12 2.3 Printer Mechanical
System..... 2- 13 2.3.1

Outline.....
.....2- 13 2.3.1.1

Outline.....
..... 2- 13 2.3.2 Ink Passage
.....2- 14

2.3.2.1 Ink Passage
.....

.. 2- 14 2.3.2.2 Ink Tank
Unit.....

..... 2- 15 2.3.2.3 Carriage
Unit.....

..... 2- 17 2.3.2.4

Printhead.....

..... 2- 20 2.3.2.5 Purge Unit

.....

..... 2- 21 2.3.2.6 Maintenance

Cartridge.....

. 2- 26 2.3.2.7 Air

Flow.....

..... 2- 27 2.3.3 Paper

Path.....2-

28 2.3.3.1

Outline.....

..... 2- 28 2.3.3.2 Paper Path

.....

.... 2- 29 2.3.3.3 Cutter

Unit.....

..... 2- 36 2.4 Printer Electrical System

..... 2- 37 2.4.1

Outline.....

.....2- 37 2.4.1.1 Overview

.....

..... 2- 37 2.4.2 Main

Controller.....2

- 39 2.4.2.1 Main controller

components.....

2- 39 2.4.3 Carriage Relay

PCB.....2- 40

2.4.3.1 Carriage PCB components

..... 2- 40 2.4.4

Motor Driver

.....2- 41

2.4.4.1 Roll feed unit PCB components

..... 2- 41 2.4.5

Maintenance Cartridge Relay

PCB.....2- 41 2.4.5.1

Maintenance cartridge relay PCB

components..... 2- 41 2.4.6 Power

Supply.....2-

41 2.4.6.1 Power supply block diagram

..... 2- 41 2.5

Detection Functions with Sensors 2-

42 2.5.1 Sensors for covers

.....2- 42 2.5.2 Ink

passage system

.....2- 43 2.5.3

Carriage

system.....2- 45

2.5.4 Paper path

system.....2- 46

2.5.5 Others

.....2-

47 Chapter 3 INSTALLATION 3.1 Installation

..... 3- 1 3.1.1

Making

Pre-Checks.....3-

1 3.1.1.1 Making

Pre-Checks.....

..... 3- 1 3.1.2 Unpacking and

Installation.....3- 1

3.1.2.1 Unpacking and
Installation.....

3- 1 3.1.2.2 Installing the Stand
..... 3- 9

3.1.3 Checking the
Images/Operations.....3- 17

3.1.3.1 Checking the Images
/Operations..... 3- 17

3.2 Transporting the Printer.....

3- 18 3.2.1 Transporting the Printer
.....3- 18 3.2.1.1
Transporting the Printer
..... 3- 18

Contents 3.2.2 Reinstalling the Printer
..... 3- 18 3.2.2.1
Reinstalling the
Printer.....

3- 18 Chapter 4 DISASSEMBLY/REASSEMBLY 4.1 Service Parts
.....4- 1 4.1.1
Service Parts
.....4- 1 4.2
Disassembly/Reassembly.....4-
2 4.2.1 Disassembly/Reassembly
.....4- 2 4.3 Points to
Note on Disassembly and Reassembly.....4- 2 4.3.1
Note on locations prohibited from disassembly
.....4- 2 4.3.2 Moving the carriage
manually..... 4- 2 4.3.3

Units requiring draining of ink
..... 4- 2 4.3.4 External
Covers4-
3 4.3.5 Driving Unit
..... 4- 15
4.3.6
Cutter.....
..... 4- 16 4.3.7 Carriage Unit
..... 4- 19
4.3.8 Feeder
Unit..... 4-
27 4.3.9 Roll Feed
Unit..... 4- 30
4.3.10 Purge
Unit..... 4-
33 4.3.11 Waste Ink Collection
Unit..... 4- 36 4.3.12 Ink
Tank Unit.....
4- 39 4.3.13 Head Management
Sensor..... 4- 42 4.3.14
Multi
Sensor..... 4-
42 4.3.15
PCBs.....
.... 4- 43 4.3.16 Opening the Cap/Moving the Wiper Unit
..... 4- 46 4.3.17 Opening/Closing the
Ink Supply Valve 4- 47 4.3.18
Draining the
Ink..... 4- 48 4.4

Applying the Grease4-

49 4.4.1 Applying the Grease

..... 4- 49 4.5

Adjustment and Setup Items4-

53 4.5.1 Adjustment Item List

..... 4- 53 4.5.2

Procedure after Replacing the Carriage Unit or Multi Sensor

..... 4- 53 4.5.3 Procedure after Replacing the Head

Management Sensor..... 4- 56 Chapter 5

MAINTENANCE 5.1 Periodic Replacement Parts

.....5- 1 5.1.1 Periodic

Replacement Parts5-

1 5.2 Consumable Parts

.....5- 1 5.2.1

Consumable Parts

.....5- 1 5.3

Periodic Maintenance5-

2 5.3.1 Periodic Maintenance

.....5- 2 Chapter 6

TROUBLESHOOTING 6.1

Troubleshooting.....6-

1 6.1.1 Outline

.....6-

1 6.1.1.1 Outline of

Troubleshooting.....

..... 6- 1 6.2 Location of Connectors and Pin

Arrangement.....6- 1 6.2.1 Main controller

PCB.....6- 1 6.2.2

Carriage PCB

.....6- 9 6.2.3

Power supply

..... 6- 14

6.2.4 Roll feed unit PCB

..... 6- 14 6.3

Version Up.....6-

16 6.3.1 Firmware Update Tool

..... 6- 16 Contents

6.4 Service Tools.....

6- 17 6.4.1 Tool List

.....6- 17

Chapter 7 SERVICE MODE 7.1 Service Mode

..... 7- 1 7.1.1

Service Mode Operation

.....7- 1 7.1.2 Map of

the Service Mode.....7-

2 7.1.3 Details of Service Mode

.....7- 7 7.1.4 Sample

Printout7-

15 7.2 Special

Mode..... 7- 20 7.2.1

Special Modes for Servicing

.....7- 20 Chapter 8 ERROR

CODE 8.1 Outline

..... 8- 1 8.1.1

Outline.....

.....8- 1 8.2 Warning Table

..... 8- 2 8.2.1

Warnings.....

.....8- 2 8.3 Error Table

..... 8- 3 8.3.1

Error Code

List.....8- 3

8.4 Sevice Call Table

..... 8- 8 8.4.1 Service

Call Errors

[DOWNLOAD HERE](#)

Similar manuals:

[Kipfenberg In Altmhltal - Bavaria](#)

[The Mountain Guglzipf And In Front A Truck On The Road Town Of Berndorf Lower Austria](#)

[Kipfenberg District Of Eichstaett Upper Bavaria Germany In The Valley Of The River Altmuehl
Castle And Town Seen From The Michaelsberg Mountain Of St. Michael](#)

[Limes Near Kipfenberg District Of Eichstaett Upper Bavaria Germany Excavation Foundation Walls
Of A Watchtower](#)

[Limes Near Kipfenberg District Of Eichstaett Upper Bavaria Germany Reconstruction Of A Palisade
Wall Made Of Tree Trunks](#)

[Viewing Tower Guglzipf And Colourful Clouds At Sunset, St.Veit, Lower Austria, Austria](#)

[Flipflop On Sandy Beach](#)

[Signpost/guide Before The Saentisgipfel/Switzerland](#)

[Small Porcelain Bowl With Vanillekipferl Biscuits](#)

[Vanillekipferl Biscuit With Icing Sugar In A Small White Porcelain Bowl, Red Christmas Balls At Back](#)

[Vanillekipferl Biscuit With Icing Sugar In A Small White Porcelain Bowl](#)

[Coffee Cup And Vanillekipferl Biscuit, Chimney Fire At Back](#)

[Vanillekipferl Or Almond Crescents Or Sand Tarts Covered In Caster Sugar](#)

[Vanillekipferl Or Almond Crescents Or Sand Tarts Covered In Caster Sugar](#)

[Vanillekipferl Or Almond Crescents Or Sand Tarts](#)

[Vanillekipferl Biscuits With Icing Sugar](#)

[Vanillekipferl Biscuits With Icing Sugar](#)

[Vanillekipferl Biscuits With Icing Sugar](#)

[Vanillekipferl Biscuits With Icing Sugar](#)

[Vanillekipferl Biscuits With Icing Sugar](#)

[Vanillekipferl Biscuits With Icing Sugar](#)

[Vanillekipferl Biscuits With Icing Sugar](#)

[Vanillekipferl, Crescent Shaped Biscuits, With Vanilla Bean Pods](#)

[Vanillekipferl, Crescent Shaped Biscuits, With Vanilla Bean Pods In A White Bowl](#)

[Christmas Biscuits, Vanillekipferl With Icing Sugar, On Baking Paper](#)

[Christmas Biscuits, Vanillekipferl With Icing Sugar, On Baking Paper](#)

[Christmas Biscuits, Vanillekipferl With Icing Sugar, On Baking Paper](#)

[QuotLinzer Augenquot, QuotVanillekipferlquot, Rum Truffles And QuotHusarenkrapferlquot Cookies With Christmas Decoration](#)

[QuotLinzer Augenquot, QuotVanillekipferlquot And QuotHusarenkrapferlquot Cookies In White Bowls](#)

[Mystic Lusengipfel Summit, Waldhaeuser, Bavaria, Germany, Europe](#)

[Vanillekipferl, Vanilla Flavoured Crescent-shaped Biscuits](#)

[Vanillekipferl, Vanilla Flavoured Crescent-shaped Biscuits In A Porcelain Bowl](#)

[Vanillekipferl, Vanilla Flavoured Crescent-shaped Biscuits In A Porcelain Bowl](#)

[View From The Summit Of Wendelsteingipfel Towards Breitenstein, Bayrischzell, Upper Bavaria, Bavaria, Germany, Europe](#)

[Cloudy Atmosphere On Mt Lusengipfel, Bavarian Forest National Park, Bavaria, Germany, Europe](#)

[Cloudy Atmosphere On Mt Lusengipfel, Bavarian Forest National Park, Bavaria, Germany, Europe](#)

[Cloudy Atmosphere On Mt Lusengipfel, Bavarian Forest National Park, Bavaria, Germany, Europe](#)

[Vanillekipferl, Crescent Shaped Biscuits](#)

[Zipfelkroetenfrosch Horned Frog \(Megophrys Monticola\)](#)

[Sunrise Over A Blanket Of Fog On Feldberg Mountain, Looking Towards The Swiss Alps With Saentisgipfel And Churfirsten Mountains, Black Forest, Baden-Wuerttemberg, Germany, Europe](#)

[Sunrise Seen From The Guglzipf Lookout, Berndorf, Triestingtal Valley, Lower Austria, Austria, Europe](#)

[Kipfenberg Castle, Altmuehlal Region, Upper Bavaria, Bavaria, Germany, Europe](#)

[201 Little Buddhist Reminders - Barbara Ann Kipfer](#)

[1325 Buddhist Ways To Be Happy - Barbara Ann Kipfer](#)

[Clouds Above Burg Kipfenberg Castle With Autumnal Leaves, Kipfenberg, Naturpark Altmuehlal Nature Forest, Bavaria, Germany, Europe](#)

[Hiker On His Way To The Ultner Hochwart, Ulten Valley, Here At The Lake Below The Hochwartgipfel Summit, Kornigl Mountain At The Back, Ulten In Spring, Province Of Bolzano-Bozen, Italy, Europe](#)

[Morning Fog, Willow \(Salix\), Wipfeld, Lower Franconia, Franconia, Bavaria, Germany, Europe](#)

[Wipfelder Zehntgraf Vineyard, Wipfeld, Lower Franconia, Franconia, Bavaria, Germany, Europe](#)

[Autumnal Grapevines, Wipfelder Zehntgraf Vineyard, Wipfeld, Lower Franconia, Franconia, Bavaria, Germany, Europe](#)

[Canon IPF605 Service Manual](#)