

USER GUIDE

Compress iUV600s series printer

REV. 1.00

COMPRESS-IUV600S--1.00

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Compress iUV600s Series User Guide

Important Notice

For Users in Europe



IMPORTANT:

This is a Class A product approved for industrial environments. In some environments this product may cause radio interference in which case you may be required to take measures to re-locate this product.

For Users in the United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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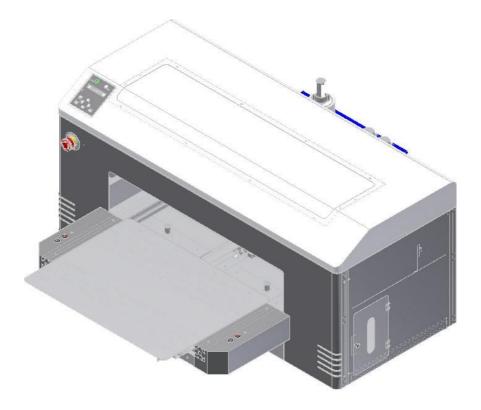
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About this Manual

A. Purpose and Target Readers

This manual explains the preparations and procedures for operating the Compress iUV600s series printer.

This is a common User Guide for the Compress series of printers. Unless specifically mentioned to the contrary, the descriptions in this manual are common for all Compress series models.

This manual is designed to assist the end user in the use, maintenance and general troubleshooting of the Compress series printers. Before using the Compress series printer you are required to read and fully understand the contents and directions in this manual.

B. Manual Configuration

Section	Contents
1 Safety Instructions	Explains types of warnings, cautions and warnings labeled on the printer
2 Product Overview	Explains the features, part names, and functions of the printer.
3 Initial Setup and Basic Operations	Explains the procedures for the initial setup & basic operations of the printer.
4 Printing on substrates	Explains the procedures of preparation for & printing to substrates with the printer.
5 Maintenance	Explains daily and other periodical maintenance of the printer.
9 Troubleshooting	Explains troubles that may occur when using the printer and how to solve them.
10 Appendix	Printer specifications

C. Document Change History

This version of the document replaces and obsoletes all previous versions. The following table describes the most recent changes:

Revision Date	Summary of Changes
15 th October 2015	Initial release

D. Manual Notation

The following symbols are used in this manual for easier understanding of the information.

Symbol	Meaning
MARNING	Must be followed carefully to avoid death or serious bodily injury or catastrophic damage to your equipment.
A CAUTION	Must be observed to avoid slight or moderate bodily injury or damage to your equipment.
NOTE	Contains important information and useful tips on the operation of the product
TIP	Indicates useful tips for operating or understanding the equipment or getting the best performance from your equipment.
TF .	Indicates reference pages in this manual

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Safety Instructions 1.0 Introduction

This chapter explains the meaning of safety terms for personnel who install, operate, or maintain this equipment, important safety instructions, and the warning labels attached to the equipment.



Make sure to follow all instructions and warnings on this manual when installing, operating, or maintaining the equipment.

1.1 Warnings, Cautions and Notes

Safety terms in this manual and the contents of warning labels attached to the printer are categorized into the following three types depending on the degree of risk (or the scale of accident).

Safety Terms	Details
↑ WARNING	Must be followed carefully to avoid death or serious bodily injury
A CAUTION	Must be observed to avoid slight or moderate bodily injury or damage to whole or part of the product
NOTE	Contains important information and useful tips on the operation of the product

Read the following explanations carefully, and follow the instructions in this manual.

TABLE 0-1 SAFETY TERMS

1.2 Important Safety Instructions

General safety instructions that must be observed to use the equipment safely are explained below.

ALWAYS CONSULT YOUR PRODUCT REPRESENTATIVE PRIOR TO SWITCHING ON YOUR MACHINE

↑ WARNING

- 1. Do not place the printer in the following areas. Doing so may result in the printer tipping or falling over and causing serious injury.
 - Unstable or loose surfaces
 - Angled surfaces
 - Areas subject to vibration by other equipment
- 2. Do not stand on or place heavy objects on your printer. Doing so may result in the printer tipping or falling over and causing injury.
- 3. Do not look directly at the LED UV lamp whilst the machine is in operation, this can be damaging to human eyes. The use of UV proof sunglasses is strongly recommended
- 4. Do not cover the ventilation hole of your printer with cloth, such as a blanket or table cloth. Doing so could obstruct ventilation and cause fire.
- 5. Do not place the printer in humid and dusty areas. Doing so may result in electrical shock or fire.
- 6. Make sure to use the power cable packed with the printer you purchased. Not doing so may result in electrical shock or fire.
- 7. Do not use the power cable if it is damaged in any way. Doing so may result in electrical shock or fire.
- 8. Do not insert or drop metal or objects which are easily combustible through the openings such as the ventilation hole of your printer. Doing so may result in electrical shock or fire.
- 9. Do not operate the printer if it has been contaminated by foreign substances or liquid spills as doing so may result in electrical shock or fire. Immediately turn off the power switch, disconnect the power plug from the electric socket, and contact your authorized DTG Dealer.
- 10. Make sure to use only the specified power supply (AC 100 V 120 V or AC 220 V 240 V). If the power supply other than the specified voltage is used, it could cause an electric shock and fire.
- 11. Make sure to double check LED curing lamp voltages are set for your specific countries voltage rating.
- 12. Take power for the printer directly from the power socket (AC 100 V 120 V or AC 220 V 240 V). Do not use complex multiple plugs on the same socket. This could generate heat and might cause fire.
- 13. Make sure that the following is performed before parts replacement.
 - Turn off the power to the printer.
 - Remove the power cable from the power outlet. Not doing so may cause electric shock or damage to the electric circuit.
 - Unplug the cables connected to the printer. Failure to do so could result in damage to the printer.

A CAUTION

- 1. Pay attention to the following when handling the power cable:
 - Do not do anything forcefully (e.g. pull, bend, twist) to the power cable
 - Do not place heavy objects on the power cable
 - Do not route the power cable near heat sources
- 2. Pay attention to the following points while handling the power supply plug. Not going so may result in electrical shock or fire:
 - Make sure that the power cable / plug is not contaminated by any foreign substances such as dust etc.
 - Make sure that the power plug is correctly connected to the power socket.
- 3. Pay attention when handling inks so that ink does not get into the eyes or spill on your skin. If the ink does get into eyes or onto skin, immediately wash the affected area with water. The inks may cause mild skin irritation and/or inflammation of the eyes. Consult with medical personnel in the case of any adverse reaction.
- 4. Be careful to ensure that fingers are not caught in the opening when lifting and closing the top cover of the printer.
- 5. Do not use strong solvents such as thinners, benzene or alcohol on the printer. These products may damage the paint on the printer.
- 6. Take care that moisture does not enter the printer. There is a risk of a short circuit of the electrical circuit(s) within the printer if this occurs.
- 7. Ensure that the printer is always kept in a horizontal position, even whilst it is being lifted or moved.
- 8. Do not leave the printer on a slanted surface. Do not leave the printer upside down. Doing so may cause ink leakage and / or trouble that cannot be restored, as the printer is originally assembled in the factory with a high accuracy of 1/100 mm.
- 9. Ensure all packing materials are removed from the printer before lifting from it's crate. If the printer is lifted with materials attached, it may slip from the hands and be damaged.
- 10. Assembling and disassembling of the printer are possible only for the parts that disassembling procedures are shown in this manual, and should be undertaken only by DTG authorized and trained professionals. Do not disassemble any frame parts or parts that disassembling procedures are not shown in this manual. Doing so may cause trouble that cannot be restored, as the printer is originally assembled in the factory with a high accuracy of 1/100 mm.
- 14. Do not touch the elements on the circuit board with bare hands. Doing so may cause static electricity and cause catastrophic invisible damage.
- 15. Do not press the transparent film on the damper assembly with your hands. Doing so may discharge the ink filled inside the damper assembly or damage the pressure valve.
- 16. Be careful not to damage the transparent film on the damper assembly.
- 17. Do not touch the nozzle plate of the print head, keep free from dust.
- 18. There is ink in the tubes throughout the printer. Be careful that the ink is not spilled from any tube outlet onto the printer or items close to the printer.

- 19. If you need to operate the printer with the cover removed for maintenance or repair, be careful not to get injured by any moving parts.
- 20. Never lubricate the printer mechanism with anything other than that designated by Impression Technology. Doing so may damage the parts or shorten the lifetime of the parts and / or printer.
- 21. If the power board assembly needs to be removed, remove the power cable and wait for 5 minutes or more before taking it out; this will discharge the residual electrical charge of the electrolytic capacitor. Touching the board before the capacitor discharges may cause electric shock or death.
- 22. When connecting or removing an FFC type cable on a main board assembly connector, make sure to connect or remove the cable perpendicular to the connector. Connecting or removing at a slant may damage, break or short-circuit the inner terminal of the connector and may damage the components on the board.
- 23. When connecting or removing an FFC type cable on the CR board assembly connector, make sure to connect or remove the cable perpendicular to the connector. Connecting or removing at a slant angle may damage, break or short-circuit the inner terminal of the connector. That may damage the components on the board.
- 24. Make sure there is sufficient space around the printer when performing maintenance work.
- 25. Maintenance must be done by more than two person for the following work.
 - When disassembling or reassembling the product
 - When packing the printer for transportation

1.3 Warning Label types and meanings

The handling, attachment locations, and types of warning labels are explained below.

Warning labels are attached to areas where care should be taken. Read and understand the positions and contents thoroughly before maintenance operation.

1.3.1 Handling the Warning Labels

Make sure to note the following when handling the warning labels.

NOTE

- 1. Make sure that all warning labels can be recognized. If text or illustrations cannot be seen clearly, clean or replace the label.
- 2. When cleaning warning labels, use a cloth with water or neutral detergent. Do not use any solvent or gasoline products.
- 3. If a warning label is damaged, lost, or cannot be recognized, replace the label.

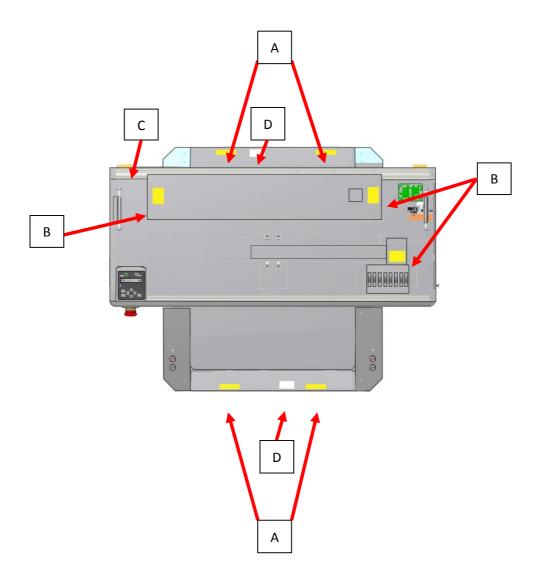


Ref	Warning Label Type
А	Using this area as a lift point will cause damage to the printer.
В	Do not touch anything in this area unless instructed.
С	Dangerous voltages present in this area.
D	Fingers may be trapped and ripped off in this area.

TABLE 0-2 WARNING LABEL TYPE

1.3.2 Locations of Warning Labels

The locations of warning labels are shown below.



Ref	Warning Label Type
А	Using this area as a lift point will cause damage to the printer.
В	Do not touch anything in this area unless instructed.
С	Dangerous voltages present in this area.
D	Fingers may be trapped and ripped off in this area.

Product Overview

1.4 Features

The features of the printer are explained below.

1.4.1 High Resolution Image Quality

This model uses the drop on-demand piezo head with a high performance coated nozzle plate.

The ability to eject >40pl droplet size enables excellent white ink delivery.

1.4.2 Ink Supply System

This model uses a microprocessor controlled pressurised color ink supply system and a patented White Ink Management System (WIMS) utilising high performance brushless motors designed to provide trouble free, accurate white ink delivery at all times.

1.4.3 Operation Efficiency Improvement

Loading media onto the media platens is done away from the printer and then slipped into the ACCULOK platen locating and holding system.

1.4.4 Operability Improvement

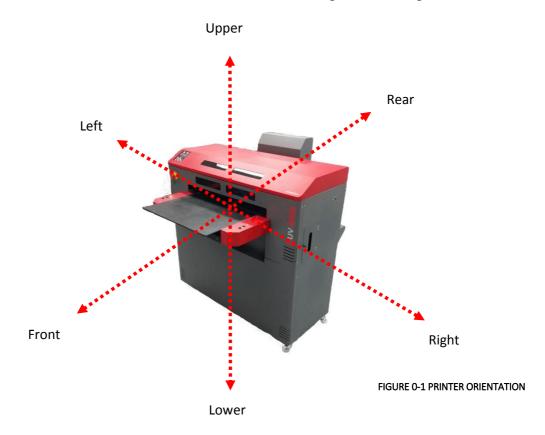
The simple and intuitive GO/NO GO system uses two high brightness LED's to indicate to the user whether or not the printer is ready to receive a print job.

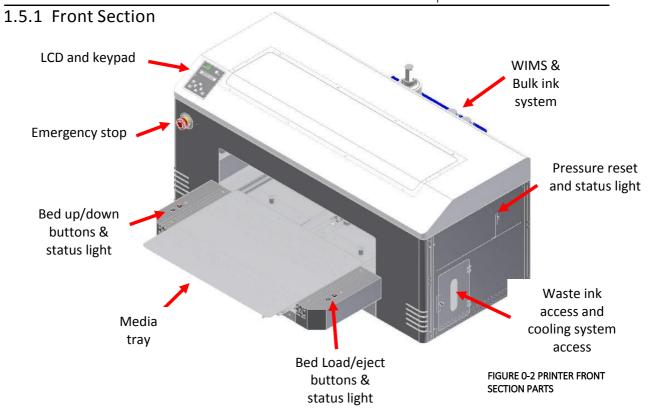
Sending a print when either LED is not green will result in a failed print job.

1.5 Part Names and Functions

Part names and functions are explained in this section.

For the directions described in this document, refer to the following orientation figure:

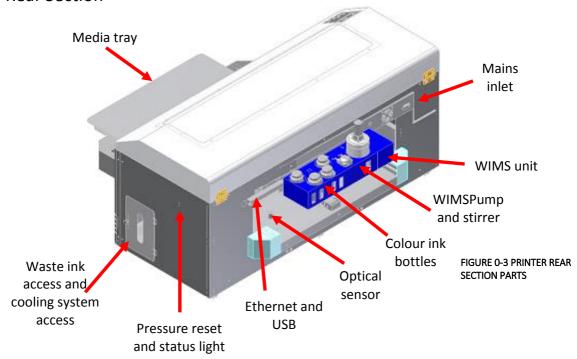




Function		
This button removes mains power from the printer in an emergency.		
This button causes the motorised bed to move upwards and decrease the gap between the print head and media.		
This button causes the motorised bed to move downwards and increase the gap between the print head and media.		
This solid state lamp indicates the status of the bed height and it's relation to the head safety beam.		
GREEN indicates that the media is at, or lower than, the optimum print height.		
RED indicates that the media is at, or higher than, the recommended safe print height.		
AMBER indicates that the media height/head protection system has been disabled and only the bed down button can be used. This mode is accessed by depressing the bed UP button and the bed DOWN button at the same time		
This button causes the printer to move the bed into the start of print position in which the top most area of the bed will be aligned with the top of the selected print position.		
This button causes the printer to move the bed into the end of print position in which the bottom most area of the bed will be situated in the entry point of the printer.		
GREEN indicates that the bed is loaded in to the printer and the printer is ready to print.		
RED indicates that the bed is NOT loaded in to the printer and the printer will not be able to print correctly, an error will occur if a print is sent to the printer when the bed status light is red.		
RED FLASH – the Bed STATUS light will flash red 1 times immediately when the printer is powered on. This is an indicator that the printer is an X series printer.		
The CMYK pressure system comprises a pressure control board, DC motor driven diaphragm pump and pressure limit switch. There is also a reset switch, warning beeper and a status indicator light. The system will pump for a limited time to build the correct CMYK ink pressure level, if this is not achieved the indicator lamp will flash red, the beeper will sound and the pump will stop. This is to alert the user to a pressure loss. This can be reset by pressing & holding the reset switch for 1-2 seconds which will cause the pump to start again and the light will go yellow. When the correct pressure is reached and all is well the indicator lamp will pulse green.		

TABLE 0-1 PRINTER FRONT SECTION PART FUNCTION

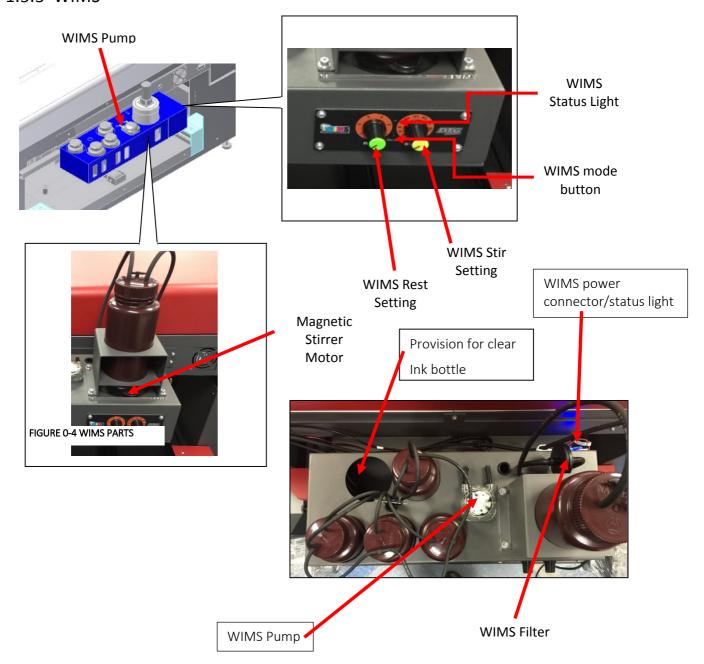
1.5.2 Rear Section



Name	Function
AC mains power inlet	For inserting the mains power cable plug.
Network interface connector	Connector to connect a network interface cable.
USB cable connector	Connector to connect a USB cable.

TABLE 0-2 PRINTER REAR SECTION PARTS FUNCTION

1.5.3 WIMS

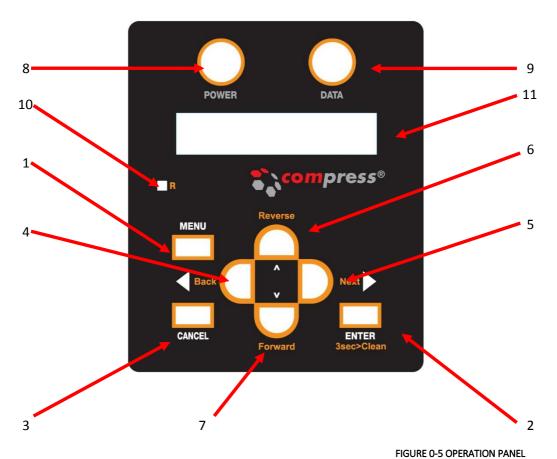


Name	Function
WIMS stirrer power	This indicator is BLUE during standby and RED when the printer is active. This indicator is an integral part of the WIMS power plug.
WIMS stirrer	This assembly stirs the white ink by rotating the stirrer paddle clockwise for approximately 10 seconds and then anti-clockwise for approximately 10 seconds. This is repeated while the unit is active
WIMS pump	This assembly circulates the white ink by peristaltic action to prevent the heavy white pigment from settling in the pipes and bulk container.
WIMS Mode button	This button has two functions. In normal operating mode it will over-ride all settings and force the pump and stirrer to operate continuously.
	This mode is entered into, and cancelled, by pressing and holding the button for more than three seconds. Diagnostic mode is entered by pressing the button whilst power is being applied to the WIMS.
WIMS status light	GREEN indicates that WIMS has operated for a total of less than 1500 hours.
	AMBER indicates that WIMS has operated for more than 1500 but less than 1700 hours
	RED indicates that WIMS has operated for more than 1900 hours and that the peristaltic pump tube should be replaced as soon as possible.
WIMS rest setting	This selects the length of time in segments of one hour for which the WIMS will be at rest between stirring and circulating the ink.
WIMS stir setting	This selects the length of time in two minute segments for which the WIMS will be actively stirring and circulating the ink.
WIMS Filter	The WIMS filter is a 20µm in-line filter capsule and is used as a protection measure for the print head and dampers. Particles or other contaminants which may be present in or ingress into the white ink should be trapped by the WIMS filter and therefore not progress through to the dampers and print head. The WIMS filter should be replaced at least monthly, and more frequently during high volume consumption of white ink.

TABLE 0-3 WIMS PARTS FUNCTION

1.5.4 Operation Panel

The operation panel (LCD & Keypad) is used to set operational conditions, display the status of the printer, and set other functions. The names and functions of the operation keys and status lamps are explained below.



1.5.4.1 Operation Keys

NOTE

Some keys have multiple functions and names depending on the printer status (normal or setup menu display). See *1.6 "Printer Status" p.23* for more details.

No.	Name	Normal Operation Function	Setup Menu Display Function
1	[Menu] key	Changes the LCD monitor display to setup menu status.	Changes the setup menu display status to normal status.
2	[Enter] key		 Selects the menu to be set and shifts to the next hierarchy. Determines and saves the parameter value.
	[Cleaning] key	If held down for 2 seconds or more, starts cleaning the printer head. (note: platen should be loaded and hood should be lifted to switch of the UV lamps)	-
3	[Cancel] key	- During printing: Terminates printing forcibly and deletes 1 file of remaining data.	- Returns to the previous menu hierarchy. Changed parameter values are disabled.
		- During reception/analysis: Deletes the data that has been already received/analysed and ignores 1 file of data received after that.	- Changes the setup menu display status to normal status.
	[Cut] key	DO NOT USE	-
4	[Back] key	DO NOT USE except to toggle Roll Lamp (below) to Green	Changes the menu in reverse order.
5	[Next] key	DO NOT USE	Changes the menu in forward order.
6	[Reverse feed] key	DO NOT USE	-
	[^] key	DO NOT USE	- Changes the setting value in the forward direction.
			- Increases the value when inputting values.
7	[Forward feed] key	DO NOT USE	-
	[\	-	- Changes the setting value in the reverse direction.
			- Decreases the value when inputting values.
8	[Power] key	Turns the printer on and off.	Turns the printer on and off.

TABLE 0-4 OPERATION KEYS FUNCTIONS

1.5.4.2 LCD Monitor and Status Lamps

No.	. Name Color Status Function				
1	Power lamp	Green	On	The printer is switched on.	
			Blinking	An error has occurred. Error content will be displayed on the LCD monitor.	
			Off	The printer is switched off.	
2	Data lamp	Red	On	- The printer is analyzing received data The printer is printing data.	
			Blinking	The printer is receiving data.	
			Off	The printer is not receiving, analyzing or printing data.	
3	Roll lamp	Green	On	The printer is set to roll media.	
			Off	The printer is set to cut media. INCORRECT SETTING	
			Off	The printer is set to roll sheet. INCORRECT SETTING	
			Off	The plot mode is set to High speed. INCORRECT SETTING	
4	LCD monitor	-	-	This monitor displays the operation status and error messages of the printer.	

TABLE 0-5 LCD MONITOR & STATUS LAMPS

1.6 Printer Status

The status of the printer is explained below.

1.6.1 Normal

Indicates that the printer can print when the platen is loaded.

Both indicator LED's (Power lamp & Roll Lamp) are green.

1.6.2 Setup Menu

The settings required for normal printing are usually made via the printer driver or RIP, but can also be made using the operation panel.

1.6.3 Changing Printer status

(1) Normal → Setup Menu Display

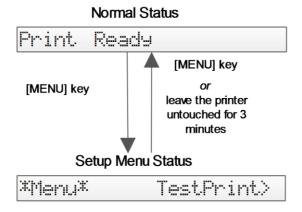
When the printer is in "normal" mode, press the [Menu] key

• The operation panel will shift to the setup menu display and show "*Menu* TestPlot>".

(2) Setup Menu Display → Normal

While the printer is in setup menu display, if either of the following operation is done, the operation panel shifts to Normal display.

- [Menu] key on operation panel is pressed.
- In the Setup menu, leave the keys untouched for three minutes.





For details on Status message, refer to For 5.2.1 "Operation Status" p.121

2. Initial Setup & Basic Operations

2.1 Introduction

This chapter provides information on the initial setup and basic operation of the iUV600s Printer.

It is highly recommended that the initial setup of the printer be performed by a Compress trained & authorized technician. Damage caused by incorrect setup will not be warrantied.

Initial setup should be undertaken in the following order:

- 1. Position the printer 2.3 "Choosing a Place for the Printer" p.28
- 2. Remove packaging materials 2.6.1 "Removal of Shipping Tape" p.44
- 3. Load colour inks (before power is applied to the printer) 2.6.3 "Priming the cooling system.
- 4. **Before** the LED UV lamps can be operational you must first prime the entire lamp cooling system. The reservoir for the pump is located in the waste tank bay via the small grey door.



The Pump unit and reservoir are located to the right as shown below



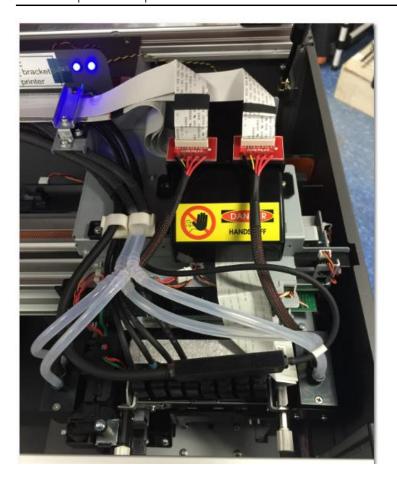
Reach in and lift the reservoir bottle from its location, you may need to angle the bottle to aid in the removal. Bring bottle out as shown below.



You will notice a green solution in the bottle, this is anti freeze, simply fill the bottle ¾ full with distilled water, reattach the lid and then return bottle to the original location.

To Prime the LED lamp cooling system;

- 1- Release the E stop only, do not power up printer.
- 2- Raise the machine lid. You should see 2x blue LED's illuminated.
- 3- Release and move carriage away from the capping station as per picture below. At this point you will hear the pump running, this means that the system will be starting to prime, look at the cooling tubes connecting to the lamps, once the air has been flushed from the tubing, the system is primed, at the same time checking for leaks, allow the pump to continue running for the entire 4 minutes (cooling down period) after which the pump will automatically stop. Tubes should be solid and NO air visible.
- 4- Check the reservoir bottle and ensure that fluid is visible



- 5. Initial Ink Fill Process Colours" p.45
- 6. Load white ink 19 0 "3 .6. 5 Initial Ink Fill Process White" p.50
- 7. Load media for printing 5.6.6 "Loading Media for Printing" p.52

2.2 Before you Get Started

2.2.1 Commit to Maintenance

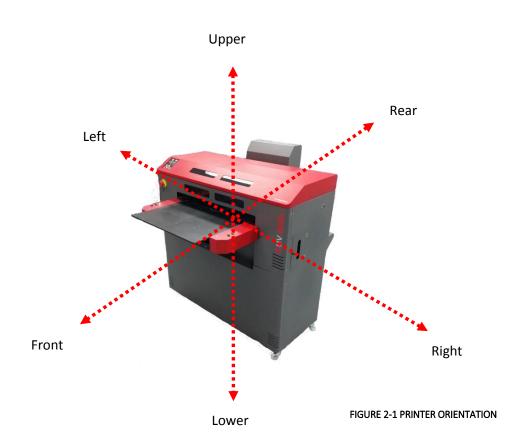
Your Compress iUV600s™ represents a significant investment, not only of your money but also of your commitment to your new business opportunity with the Compress iUV600s™.

Whilst the mechanics of the printing unit of the iUV600s are similar to that of a normal inkjet printer, printing on rigid substrates is not the same as printing on paper. Various substrates can generate more dust, it may require a much greater volume of ink, and the application of primers can become airborne if applied by spraying and can ingress into the iUV600s. Each of these factors individually can cause problems with your Compress iUV600sTM, and in combination can be critical to the ongoing

operation of the printer. All is not lost, however! A few minutes of your time each day spent undertaking some basic maintenance tasks on the printer will ensure it's continued optimal performance. Please refer to the sections within this User's Guide on Preventative Maintenance for further information.

2.2.2 Get to Know your iUV600s

Starting a new business or adding to your existing product line with the Compress iUV600s™ is a very exciting, and potentially very profitable time. Don't get too carried away though and start accepting orders before you even have your printer. Allow plenty of time to become familiar with your printer and to learn not only the basics, but also the variables that can impact on your finished product. These variables include image types, substrate types, your operating environment, and substrate preparation. Thoroughly read this manual, ask questions of your Compress Technician or Distributor, talk to other users. Be prepared for a learning curve. Be realistic about deadlines when accepting orders and allow yourself sufficient time (and perhaps a couple of extra blank products) to complete the order.



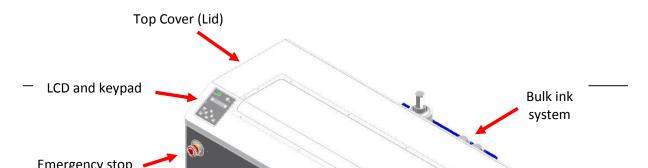
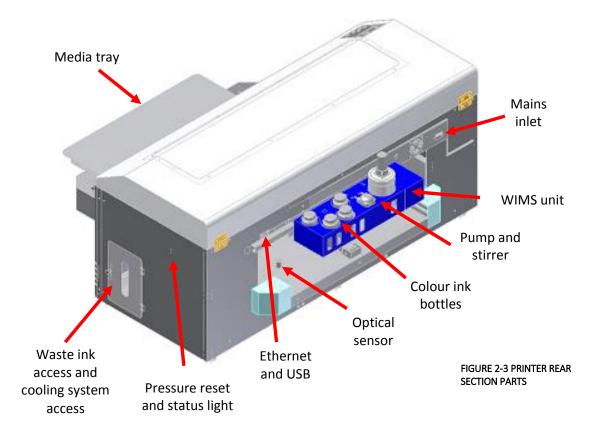


FIGURE 2-2 PRINTER FRONT SECTION PARTS



2.3 Choosing a Place for the Printer

↑ WARNING

- Do not place the printer in a location under the following conditions. Doing so may cause the product to fall over, become damaged, or cause serious injury:
 - o Unstable or shaky surfaces.
 - o Slippery, slanted or angled surfaces.
 - o Locations that are subject to vibration from other products.
- Do not stand, or lean, on the printer or place any objects on it. Doing so may cause it to fall over, become damaged, or cause injury.
- Do not cover any ventilation holes or slots of the printer with anything at all. Doing so could prevent the printer from ventilating and cause fire.
- Keep the printer away from damp, humid or dusty areas. Failure to do so may result in electrical shock or fire.

2.3.1 Installation Environment Requirements

Choose a place for printer installation following the requirements of the table below.

Installation space		5m² or more, 2.6m or more is required for the width			
Floor loading capability		Up to 3000Pa (450kgf/m²) or more			
Electrical Voltage specifications		AC 100 V - 120 V \pm 10% or AC 200 V - 240 V \pm 10% (LED lamps not auto switching and must be configured prior to switching on the machine, contact your product representative for more details)			
	Frequency	50/60	OHz ± 1Hz		
	Capacity	Up to	4A or more		
Environmental conditions Temperature Humidity					
Operation environment			18º C (64F) to 30ºC (86F)	20% to 80%, with no condensation	
Printing accuracy warranty range Rate of change		nge	18ºC (64F) to 28ºC (82.4F)	40% to 60%, with no condensation	
			2ºC per hour or less	5% per hour or less	

TABLE 2-1 INSTALLATION ENVIRONMENT REQUIREMENTS

NOTE

Avoid the following temperature and humidity conditions. Otherwise, printed images may appear differently from what you expect and machine operation may be erratic or incorrect.

- Places where sudden changes in temperature or humidity are expected, even if the condition is within the range specified within this document.
- Places where direct sunlight or excessive lighting conditions are expected
- Places where air conditioners blow directly.

Impression Technology strongly recommends that the printer should be installed where air conditioning airflow, humidity and temperature can be adjusted easily.

2.3.2 Required Space

Install the printer on a flat surface that meets the following conditions:

- The load bearing surface will fully support the full weight of the printer (and/or stand) plus 100%.
- The load bearing surface has an angular difference from level by no more than 2 degrees.
- The load bearing surface is textured and firm enough to be considered a non-slip, hard surface.
- The load bearing surface will fully support lateral forces in all directions in excess of 100kg.

NOTE

For printer options Section 6.3 Options/Supplies List p.159

Do not use the Compress iUV600s series on unstable surfaces.

Compress iUV600s Printer dimensions are illustrated below



Machine weight +/- 148kg uncrated.

FIGURE 2-4 IUV600S DIMENSIONS



2.4 Minimum Computer Requirements

Ensure that your computer has the minimum specifications as recommended here to ensure optimum performance of your printer and the RIP:

Processor	Requires a PC based on Quad Core (2.2 GHz) technology or higher processor.
Operating System	Microsoft® Windows® XP or later.
Hard Disk	Hard Drive with SATA interface and 100 GB free disk space.
RAM	2GB DDR2 or more.
Monitor	SVGA or better with resolution of 800 x 600 or better. 16 Bits or more color support recommended.

2.5 Basic Operations

Some basic printer operations are described here as they are referred to in the Initial Setup instructions.

2.5.1 Switching the Printer ON



Be sure to use the power cable supplied with the printer. If incorrect power cables are used, electric shock or fire may result

Do not use a power cable that is damaged. To do so could result in electric shock or fire.

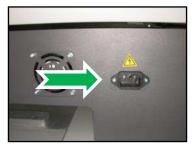
- 1. Ensure that the emergency stop is engaged by pressing hard on the red cap.
- 2. Plug the supplied mains cord into the socket at the rear of the printer.

A CAUTION

Pay attention to the following when handling the power cable:

- Do not do anything forcefully (e.g. pull, bend, twist) on the power cable
- Do not place heavy objects on the power cable
- Do not route the power cable near heat sources
- 3. Failure to remove the shipping tape before powering up the printer may result in catastrophic damage to the printer drive mechanism.
- 4. Plug the other end of the power cord into the wall socket and turn ON.



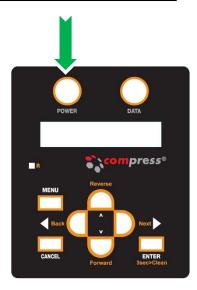




5. Rotate the red cap of the emergency stop to allow the printer to receive power.



6. Press the Power button on the operation panel.



7. After a short delay the screen will display Initializing



NOTE

The printer is likely to perform a short head cleaning operation shortly after turning on.



Do not attempt to operate the printer during this period.

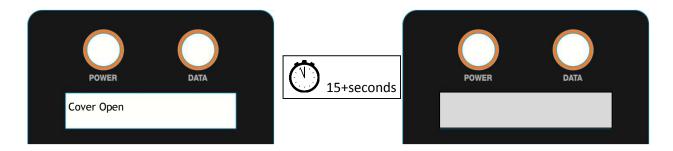
8. After a short delay the screen will display No Waste Tank for approximately 15 seconds, after which Cover Open will be displayed, indicating that the printer is ready to begin normal operations.

NOTE

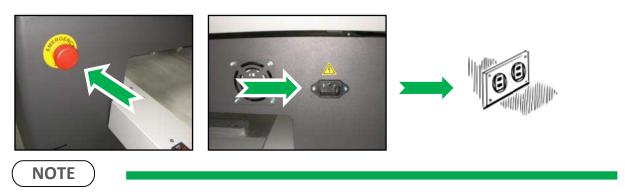
To bring printer to a "print ready" state, the platen must be loaded. After Platen is loaded, the screen display will change from Cover Open to (briefly) Print Ready and then to MediaWidth 610mm. Press the [Menu], [Enter], [Back] or [Cancel] buttons from the Control Panel to change display to Print Ready.

2.5.2 Switching the Printer OFF.

1. Press the Power button on the operation panel. After about 15 seconds or so the Operation panel display will be blank.



- 2. Ensure that the emergency stop is engaged by pressing hard on the red cap.
- 3. Unplug the power cord from the rear of the printer.



During normal non-operational periods such as overnight and during weekends it is recommended that the printer is NOT switched off.



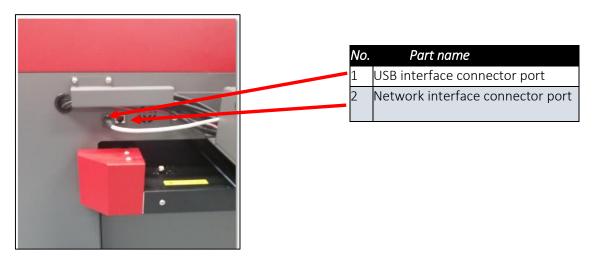
Do not attempt to operate the printer during this period.

2.5.3 Connecting the Printer to the PC

The Compress iUV600s has both Ethernet and USB interface ports for connection to the PC. You will require either a USB or Ethernet interface cable for connecting to the PC, depending upon your objectives.

2.5.3.1 Connecting Ethernet (network) interface cable

- 1. Turn off both your PC and the printer 2.5.2 "Switching the Printer OFF." p.34
- 2. Insert the network interface cable connector into the network interface connector port located at the rear of the printer:



3. Connect the other network interface connector to your PC.

TIP

• Refer to the Operation Manual of your PC for connection to your PC

2.5.3.2 Connecting USB interface cable

NOTE

Install the printer driver Section 2.6.9 "Installing & Using Printer Drivers" p.68 before connecting the USB cable

- 1. Insert the USB cable into the USB connector on the back of the printer.
- 2. Connect the other USB cable connector to your PC.

TIP

- Refer to the Operation Manual of your PC for the connection to your PC
- USB connection supports Windows 98 and higher
- This printer supports USB 2.0. If the connection is made under the following conditions, the speed may decrease to the level measure ins USB1.1
 - o When the USB connection is used in Windows 98
 - o When your PC does not support USB 2.0
 - o When a USB hub of not USB 2.0 type is used
- When using the printer with USB connection, install the printer driver into your PC using the printer driver provided with the plotter

2.5.4 Confirming Default Settings

This section gives an overview of the Setup Menu and the iUV600s series default settings.

There are some critical iUV600s series default settings that ensure that the printer operates in accordance with the iUV600s series specifications. If these settings are not set at the correct value, the printer will not behave correctly. Table 2-2 Setup Menu Structure page 41



Take care not to alter the default settings of the printer. If it is necessary to enter the Setup Menu for any reason, follow the instructions below carefully and ensure that settings are maintained as described in 2.5.4.4 "Setup Menu Structure" p.41

2.5.4.1 Enter the Setup Menu

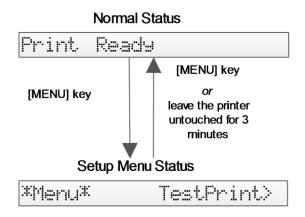
When the printer is in "normal" mode, press the [Menu] key

• The operation panel will shift to the setup menu display and show "*Menu* TestPrint>".

2.5.4.2 Return to Normal Display

While the plotter is in setup menu display, if either of the following operation is done, the operation panel shifts to Normal display.

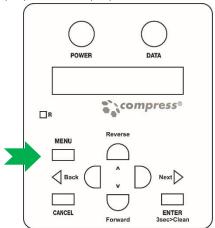
- [Menu] key on operation panel is pressed.
- In the Setup menu, leave the keys untouched for three minutes.



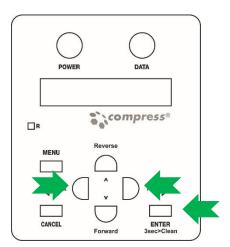
2.5.4.3 Menu Setup Procedure

Follow the following procedure to configure various setup menus.

- 1. Check that the operation panel is Normal, and is in ready to print status (Display will read Ready to Print).
- 2. Press the [Menu] key on the operation panel.
 - "*Menu* TestPrint>" will be displayed on the operation panel.
 - The setup menu display will be displayed.



3. Press the [Back] key or [Next] key on the operation panel to select a setup item and press the [Enter] key.



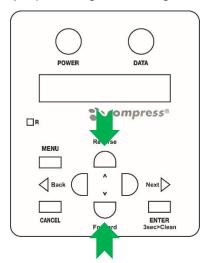
- The settings will be confirmed.
- When setup item has a submenu, the submenu will be displayed.

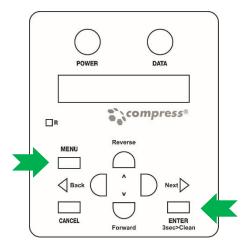
NOTE

When a setup item has a submenu, [>] is displayed on the right end of the LCD monitor of the operation panel.

If a submenu item displayed on the LCD monitor of the operation panel is blinking, it's setting can be changed.

Press the [Forward] key or [Reverse] key to change the setting.



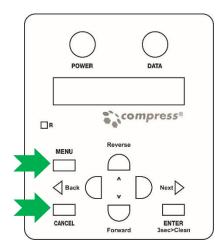


- 5. To save the changed setting, press the [Enter] key on the operation panel.
 - 1. The setting will be saved and the next setup item will be displayed.

NOTE

If the [Cancel] key, [Forward] or [Reverse] key is pressed after changing a setting, without pressing [Enter] key, that setting will not be saved.

6. Press the [Menu] key or [Cancel] key on the operation panel to exit from the setup.



The previous setup menu will be displayed.

3. When the main menu is displayed, the screen turns to Normal.

2.5.4.4 Setup Menu Structure

The setup menu has the following items.

< > parts in each list are initial settings

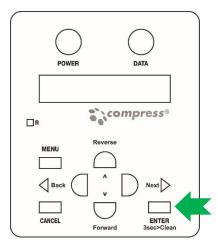
[] parts in each list are iUV600s series default settings (if different from initial settings).

TABLE 2-2 SETUP MENU STRUCTURE

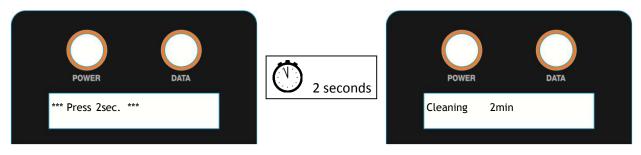
Setup Menu Item	Setup Menu Sub Menu Item	Setup Menu S	Sub Menu Item / Se	etting Value	
Test Print Menu	Setup				
	NozzleCheck				
MediaSet Menu	Media	[Plain]	Effect	[None]	
				Fine&Fog	
				Fine&Fuzz	
				Fog	
				Wave	
			PF	ConfirmPrint	
				InitialChange	
				<initialprint></initialprint>	
				MicroChange	
				MicroPrint	
Network Menu	IPaddress	000.000.000.000 to <192.168.001.253> to 255.255.255.225			
	Subnet Mask	000.000.000.000 to <255.255.255.225> to 255.255.255.225			
	Gateway	000.000.000.000 to <192.168.001.254> to 255.255.255.225			
	BiDir Port	10610			
	MACAddress	xx:xx:xx:xx:xx			
Utility Menu	Menu Mask	<normal></normal>			
		OFF			
		AlwaysOFF			
Cleaning Menu	Time	Short			
		Longer			
		Long			
		Normal			

2.5.5 Performing a Head Clean from the Operation Panel

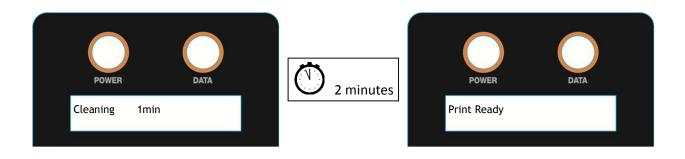
- 1. Ensure the printer is in Print Ready mode
- 2. Press the load button and ensure platen is loaded, this will allow the WIMS motor to operate during the cleaning cycle
- 3. Open the top hood of the machine in order to deactivate the LED lamps, cleaning cycles with LED lamps active are strongly discouraged.
- 4. Press and hold the 'ENTER' key.



5. The operation panel will display *** Press 2sec. ***. After about 2 seconds the printer will begin head cleaning.



6. The operation panel will display the remaining time until the clean is finished. After about two minutes or so the clean operation will complete.



Head cleaning will consume some ink during operation, this is normal with all printers.



Executing a 2^{nd} Head Cleaning from the operation panel within one print of the 1^{st} Head Cleaning will trigger a longer than Normal clean.



Ensure that the waste ink tank is placed in the correct position and that it will not overflow during the head clean cycle.

2.6 Initial Setup

Once your printer has been removed from the crate and positioned as per *Section 2.3 " Choosing a Place for the Printer" p.28*, use the following directions to prepare the printer for printing.

2.6.1 Removal of Shipping Tape

NOTE

No tools are required for this procedure.

- 1. Remove any tape from the printer top cover (lid) then open the top cover (lid).
- 2. Locate the shipping tape near the centre part of the carriage belt as shown.
- 3. Carefully remove this tape, do not use any form of cutting instrument.



- 4. Locate the shipping tape on the media tray drive belt.
- 5. Carefully remove this tape, do not use any form of cutting instrument.





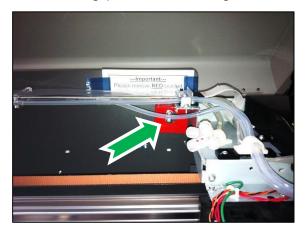
Failure to remove the shipping tape before powering up the printer may result in catastrophic damage to the printer drive mechanism.

2.6.2 Remove Carriage Lock Bracket

NOTE

1 x Philips Head screwdriver required for this procedure.

1. Remove the two screws securing the red carriage lock bracket (located at rear of print head carriage), remove the carriage lock bracket.



A CAUTION

Failure to remove the carriage lock bracket before powering up the printer may result in catastrophic damage to the print head drive mechanism.

TIP

Be sure to put aside the carriage lock clamp and screws – these will be required should you need to transport or store your printer in future.

2.6.3 Priming the cooling system.

Before the LED UV lamps can be operational you must first prime the entire lamp cooling system. The reservoir for the pump is located in the waste tank bay via the small grey door.



The Pump unit and reservoir are located to the right as shown below



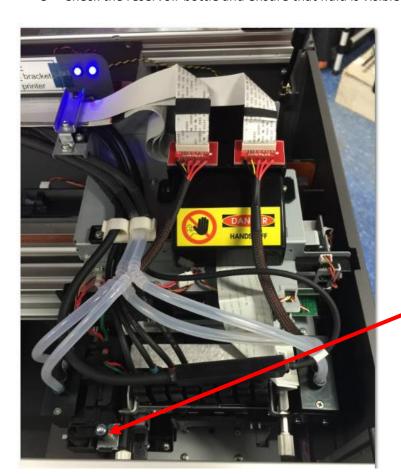
Reach in and lift the reservoir bottle from its location, you may need to angle the bottle to aid in the removal. Bring bottle out as shown below.



You will notice a green solution in the bottle, this is anti freeze, simply fill the bottle ¾ full with distilled water, reattach the lid and then return bottle to the original location.

To Prime the LED lamp cooling system;

- 5- Release the E stop only, do not power up printer.
- 6- Raise the machine lid. You should see 2x blue LED's illuminated.
- 7- Release and move carriage away from the capping station as per picture below. At this point you will hear the pump running, this means that the system will be starting to prime, look at the cooling tubes connecting to the lamps, once the air has been flushed from the tubing, the system is primed, at the same time checking for leaks, allow the pump to continue running for the entire 4 minutes (cooling down period) after which the pump will automatically stop. Tubes should be solid and NO air visible.
- 8- Check the reservoir bottle and ensure that fluid is visible



Press down carriage lock mechanism and slide entire head carriage towards the left to release

2.6.4 Initial Ink Fill Process - Colours



Observe all recommended ink handling procedures as prescribed in the relevant MSDS for inks.

NOTE

Use protective gloves to avoid stained fingers.

The below instructions assume a generic machine configuration of CMYK+WWWW, if however your printer is configured with clear ink please consult your technical advisor for any updated ink charge procedures.

- 1. Unscrew the lids on each of the four colour ink containers and ensure they are empty. There may be a small quantity of shipping fluid inside which will need to be poured out.
- 2. Fill each container with UV ink to just below the curve at the top of each container as shown.

The UV ink containers are of a dark colour to enhance UV ink stability, each bottle is clearly marked as C-Y-M-K, be sure to fill the right colour in the right bottle. The below pictures showing clear bottles are for illustrative purposes only



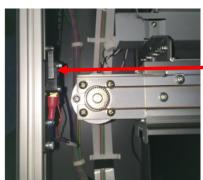


3- Take note of the coloured band on each of the colour ink lines, and match this to the ink in each of the containers when screwing the containers back in to the lids. To screw the containers to the lids, simply hold the lid firmly and screw the container up into the lid.



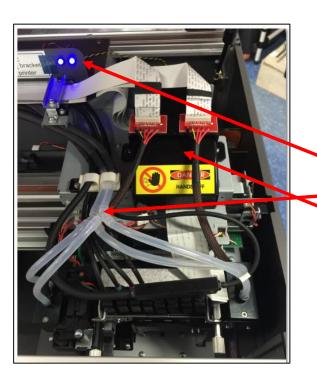


3. Open the top cover of the printer to ensure LED lamp limit switch is switched off



LED lamp limit switch located behind machine control panel, visible only with the machine hood in the up position

4.



	No.	Part name
	1	LED lamps indicator lights
	2	Coolant pipes
	3	CR board assembly cover

3.6. 5 Initial Ink Fill Process - White

NOTE

No tools are required for this procedure. Use protective gloves to avoid stained fingers.

1. Ensure that the printer is switched off on both the control panel and the red emergency off switch and very gently insert the metal glass coated stirrer bar inside the white ink bottle. The stirrer bar will be found inside the white ink bottle when first unpacking the machine.





- 2. Unscrew the white ink container lid by holding the lid and rotating the container. There will be a small quantity of shipping fluid inside which will need to be poured out. Ensure the container is empty & clean.
- 3. Fill the container with P70i UV white ink to just below the curve at the top of the container as shown.





4. Now screw the container back up to the lid. To do this simply hold the lid firmly and screw the container up into the lid. Double check that all tube clamps are in the open position and all connectors are firmly joined.





5. Switch the printer on in accordance with the instructions in Section 2.5.1 "Switching the Printer ON" p.32

Please note, for illustrative purposes clear white ink containers and ink lines are used. The actual iUV600s production printer will have UV proof bottles and ink lines fitted. These will be black and dark brown coloured.

M2 – IUV600s ink charge or little ink charge procedure

- 1- with machine off, press load/eject button and hold them down
- 2- press forward/reverse/next button and hold them down also
- 3- switch on machine and keep holding down the above mentioned buttons
- 4- After a short time the blue power light on control panel will flash and the screen will display CHECK TEST, you can now let go of load/eject/for/rev/next
- 5- Screen will show RAM CAPACITY, press cancel
- 6- Screen will show CHECK TEST
- 7- Push the media tray all the way to the back of the machine
- 8- Press the load button and load LED will illuminate green
- 9- Screen will display RAM CAPACITY, press cancel
- 10- Screen will display CHECK TEST
- 11- Press NEXT 2 times until screen displays CLEANING
- 12- Press ENTER and machine will do a short 5 second clean
- 13- Screen will display NORMAL
- 14- Press the NEXT button several times until you see either LITTLE CHARGE or keep pressing NEXT until you see INK CHARGE, then press ENTER
- 15- Once the ink charge has completed power down the machine, wait 20 seconds and power up the machine in normal operation mode. You are now ready to print a nozzle test pattern

When the machine is new and you are doing a first time ink purge, we suggest you use INK Charge as it will move more volume of ink and should fill the ink delivery system with ink with a single ink charge.

WARNING, doing too many ink charges can aerate the print head, this may take several hours to settle down.

WARNING, make sure the waste tank is empty and that it is situated properly underneath the waste ink tube

5.6.6 Loading Media for Printing

1. Pull the platen tray forwards to allow easy access to the platen as shown. Warning, do not pull the platen abruptly, optimal movement should be no more than 6cm per second



Please Note:

Bed/media 0/0 point is front/right edge of the moving bed.

TIP

If you are using paper for test printing purposes, uses paper masking tape to hold the edges of the paper down. The use of a silicone sticky mat or vacuum bed is highly recommended, contact your product representative for more information on these optional components.



As you are now ready to print your first test print or nozzle print, please review the steps undertaken to get to this point, if you have doubts, consult with your product representative.

2. Place your print media onto the bed of the machine. This can either be flat sign media in sheet form or a precut template populated with object that require to be decorated.





3. Pay close attention to the highest point of the media placed in the machine. Ideally, the media should lay as flat and as even as possible.

2.6.5 Checking media height

NOTE

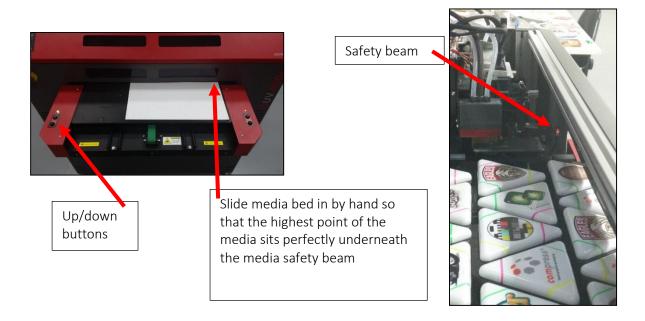
The Printer has an interactive protection system that monitors the height of the media on the media tray by means of a safety beam that continually watches the gap between the print head and the media. This is to help prevent damage to the print head caused by collision with the media or platen. The safety system can be disabled by pressing and holding both the UP and DOWN keys until the media status light turns yellow. In this condition the automatic safety system will be disabled and only the DOWN button will be operational.

A CAUTION

DO NOT pull or push the media tray manually unnecessarily as this can cause damage to drive motors and internal electronics. Where possible use the load & eject buttons for movement of the media tray.

If it is necessary to move the media tray manually, it must be done at a speed of no greater than 60mm/second (2 ¼ inches / second).

- 1. Push the platen tray forwards so that about half of the platen is inside the printer. If the platen is too high the platen LED will turn red and the platen will lower its self. If the platen LED is yellow the printer is in platen gap lock mode, press both the UP and DOWN buttons together to turn the lock mode off. The platen LED should go green to indicate all is well and the optimum print head gap is now set.
- 2. To set the correct height press and hold the UP button, the platen will begin to rise until the internal safety beam detects that the platen height is correct. The platen LED will go red and the platen will stop moving, release the UP button and the LED will turn green indicating that the platen height is now set.



NOTE

The platen LED has three different colours during operation. GREEN which indicates that the platen should not be high enough to a collision between print head and media. YELLOW indicates that the automatic head protection system is OFF and there is a possibility of catastrophic collision damage to the print head. When the indicator is RED the platen bed will begin lowering itself to try and protect the print head from possible collision damage.

- 3. Press the LOAD button and the printer will emit a series of beeps and after a short delay the platen will move into the printer. Do not impede the platen tray during operation as this may damage the printer
- 4. When the printer has loaded the media the media LED will turn green indicating that the printer is now ready to accept data from the computer to perform a print.



Red LED illuminated indicates print bed/media is not loaded, ensuring correct beam protection is set press the load button to load the bed/media



Green LED illuminated indicates bed/media has loaded properly and print data can now be sent to the printer

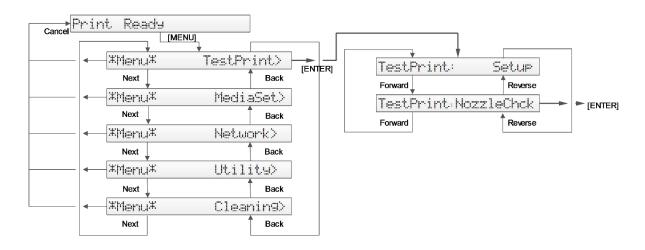


It is advisable to leave the head safety system operational at all times to assist in protecting the print head. Print heads DO NOT CARRY ANY WARRANTY what so ever.

2.6.6 Performing a Nozzle Check Test Print

The Printer has the ability to print a nozzle test print which will indicate the integrity of the nozzle orifices. Blocked nozzles will cause the printer to produce poor quality output.

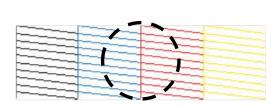
 Load a sheet of clean paper for printing in accordance with Section 5.6.6 "Loading Media for Printing" p.52 Follow the menu selection shown below to access the nozzle test print utility. In order to visually see the white ink clearly in the nozzle pattern consider using a clear transparency film



TIP

The summary of the key presses above to execute the Nozzle Check test print is: [Menu] [Enter] [Forward] [Enter].

The printer will print a pattern which should resemble the picture below. Each horizontal line represents the output from each of the nozzles. There will be an identical pattern printed directly below this in white ink which will not be visible unless you print onto a clear sheet of film or thin metal plate. As you can see from the picture each nozzle line is clear and horizontal with no gaps in the staggered pattern and no two nozzle lines of the same colour being on the same horizontal line:





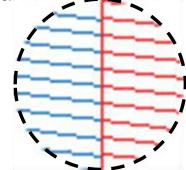


FIGURE 2-5 GOOD NOZZLE TEST PRINT

TIP

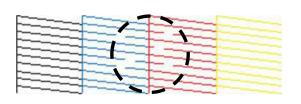
It is possible to perform nozzle test prints directly on to the platen surface as long as it is cleaned off immediately afterwards. Nozzle prints done like this will allow the white output to be observed. It is highly recommended to have the machine hood in the up position so that the LED lamps are

deactivated. The nozzle check print will not cure in this case and can be cleaned using Isopropyl or denatured alcohol.

2.6.7 Examining a Nozzle Check Test Print

Compare the results of the nozzle Check Test Print to the pictures below. White ink is NOT shown here.

This print shows missing nozzle line which indicates that there is either a blockage or an air pocket preventing the individual nozzle(s) from ejecting any ink:



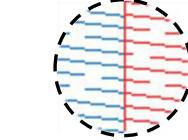
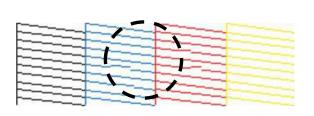


FIGURE 2-6 NOZZLE TEST PRINT - MISSING NOZZLES

This print shows a misplaced (deflected) nozzle line which indicates that there is either a partial nozzle blockage or debris on the print head face preventing the nozzle from ejecting ink in a straight line:



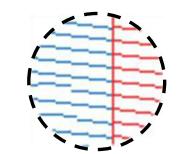
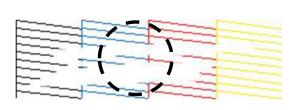


FIGURE 2-7 NOZZLE TEST PRINT - MISPLACED NOZZLES

This print shows a line of missing nozzle prints which indicates that there is likely to be physical damage to the print head face, possibly by the print head face striking the platen surface or the media which is preventing the affected nozzles from ejecting any ink:



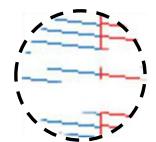


FIGURE 2-8 NOZZLE TEST PRINT - MISSING NOZZLE LINES

TIP

If any of the above patterns are observed after printing a nozzle test pattern, Perform a head clean in accordance with the instructions in *Section 2.5.5 "Performing a Head Clean from the Operation Panel" p.42*. This will pull ink through the print head and hopefully clear any blockages or air pockets. Repeat the Nozzle Test Pattern to see if the printed pattern has improved. Cycle through the Head Clean / print Nozzle Test Pattern no more than 3 consecutive times in order to avoid introducing bubbling to the ink in the print head.

2.6.8 Bi-Directional (Bi-D) Adjustment

The Bi-D (Bi-directional) adjustment procedure allows for alignment of printed output position in both the left and right (CW and CCW) print head print direction. The Bi-D adjustment may be necessary where prints appear blurry or misaligned in the X direction — and where all other possible factors such as uneven platens and / or incorrect platen to head gap have been eliminated.



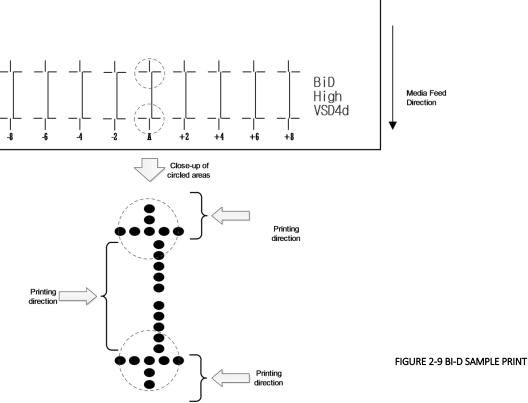
Blurry prints or double lines may also result if the media height has not been set correctly. Ensure that the media height is correctly set 2.6.5 "Checking media height" p.53

2.6.8.1 Overview of Bi-D Adjustment

To align the head for Bi-Directional printing, there are two basic (repeatable) steps: 1. The adjustment process will first print out a Bi-D test print pattern, from which it will be necessary to identify the difference between the position of the dots printed in the CW direction, and those printed in the CCW direction. That is, the test pattern is attempting to print a vertical line in segments where part of the line is printed as the print head moves to the left, and part is printed as the print head moves to the right. If the partial prints of left and right do not align to a straight vertical line, a compensating adjustment needs to be set into the printer so that it will better align the left and right head passes. This is done in step 2.: Enter the revised (compensated) parameter to move the CW and CCW printed positions.

The Bi-D test print pattern will print again, and the parameter can be further revised if necessary.

Due to the print head characteristics , only one adjustment value can be entered for all nozzle rows. Therefore adjust the parameter value so that the position of all the nozzle rows are aligned <u>on average.</u>



2.6.8.2 Accessing the Bi-D Adjustment Menu

The Bi-D adjustment options can only be accessed through a "hidden" menu called the Self-Diagnosis menu. Additionally, the printer bed must also be put into "Diagnosis" mode.



Note that the Self-Diagnosis menu contains several menu options which are intended for use ONLY by a trained & authorized DTG technician. It is very important that you do not execute any other of the menu options available in the Self-Diagnosis menu – incorrect settings or the execution of some menu items may result in damage to your printer.

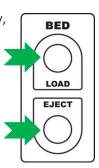
2.6.8.3 Accessing the Self-Diagnosis Menu

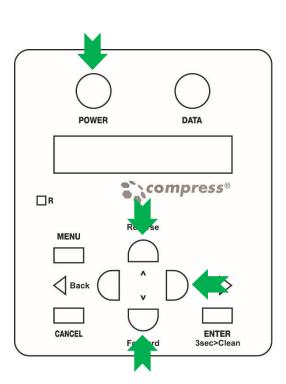
To access the Adjustment menu, select the self-diagnosis menu on the operation panel, and simultaneously put the bed operation into diagnostic mode.

The self-diagnosis menu is completely independent of the normal operation mode and self-diagnosis display mode. To call up the self-diagnosis menu, follow the steps below.

- 1. If the system is in the operation mode or the self-diagnosis menu mode, press [Power] key to turn the printer off.
- While holding down [Reverse] key, [Forward] key and [Next >] key in the operation panel AND the [LOAD] and [EJECT] buttons simultaneously, press [POWER] key.

The system will enter the selfdiagnosis mode and display the self-diagnosis menu.





NOTE

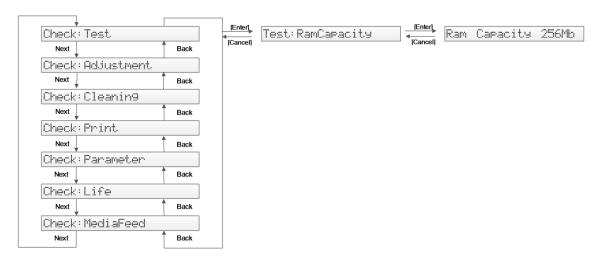
Be sure to continue to depress the [Reverse] key, [Forward] key and [Next >] key in the operation panel until the printer emits a series of "beeps".

The system will enter the self-diagnosis mode and display the self-diagnosis menu:

- 1. After a short delay the screen will display Initializing
- Shortly thereafter, the printer will emit a series of "beeps"
- After another short delay, the screen will display Check: Test this is the first menu item in the Self-Diagnosis Menu.
- Shortly thereafter, the screen will display Test:RamCapacity.

NOTE

If one of the bed buttons (load, eject etc.) is pressed at this stage, it is likely that the screen display will progress to RAM Capacity 256Mb. Use the following operation flow shown here to return the display to Check:Test

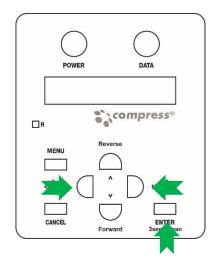


2.6.8.4 Navigating to the Adjustment Menu

Follow the operation flow shown below to operate the self-diagnosis Menu and access the Adjustment Menu.

1. Press [Forward] key or [Reverse] key in the operation panel to scroll through the menu. Then, press [Enter] key to confirm the menu option displayed.

The button presses required to enter the Adjustment Menu from the start of the self-diagnosis menu are as per this flow chart:



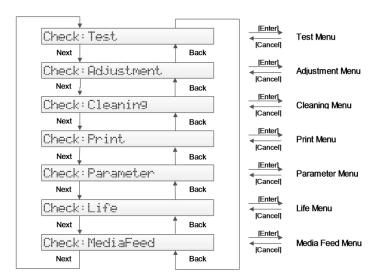


FIGURE 2-10 DIAGNOSTIC MENU FLOW

2. When the [Enter] key is pressed to confirm / select the Check:Adjustment menu option, the Print Head will release from the Capping Station and make small movements & some noise for 15-20 seconds or so before settling back into the Capping Station. This is normal. Then the first item of the Adjustment Menu will display — Adj:Rear/Edge.

compress

□R

2.6.8.5 Navigating to the Bi-D Adjustment options

Follow the operation flow shown below to operate the Adjustment Menu and access the Bi-Directional Adjustment options.

1. Press [Next] key or [Back] key in the operation panel to scroll through the menu. Then, press [Enter] key to confirm the menu option displayed.

The button presses required to select the first Bi-Directional option (Bi-D Hi VSD4d) from the start of the Adjustment menu are as follows:

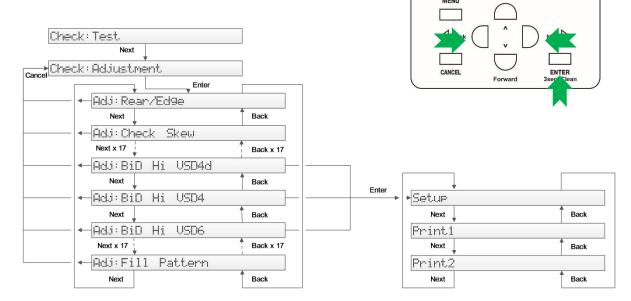


FIGURE 2-11 ADJUSTMENT MENU FLOW

NOTE

If the [Cancel] key, [Forward] or [Reverse] key is pressed after changing a setting, without pressing [Enter] key, that setting will not be saved.

2.6.8.6 Making a Bi-Directional adjustment

The actual procedure is as follows.

- 1. Load a sheet of clean paper for printing in accordance with Section 5.6.6 "Loading Media for Printing" p.52
- 2. Push the platen tray forwards so that about half of the platen is inside the printer. If the platen is too high the platen LED will turn red and the platen will lower its self. If the platen LED is yellow the printer is in platen gap lock mode, press both the UP and DOWN buttons together to turn the lock mode off.

A CAUTION

DO NOT pull or push the media tray manually unnecessarily as this can cause damage to drive motors and internal electronics. Where possible use the load & eject buttons for movement of the media tray.

If it is necessary to move the media tray manually, it must be done at a speed of no greater than 60mm/second (2 ¼ inches / second).

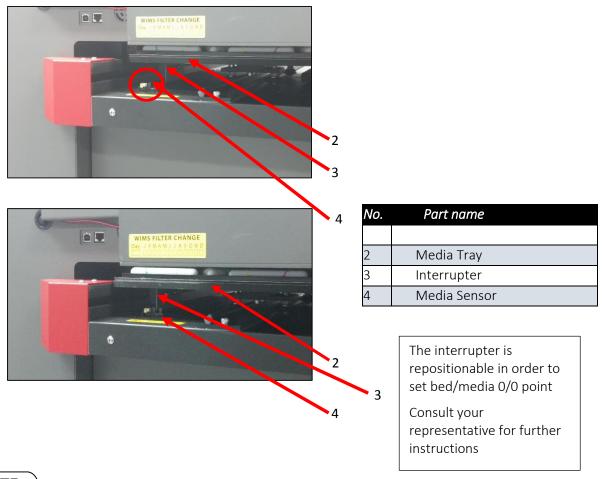
- 3. To set the correct height press and hold the UP button, the platen will begin to rise until the internal safety beam detects that the platen height is correct. The platen LED will go red and the platen will stop moving, release the UP button and the LED will turn green indicating that the platen height is now set. Refer to Section 2.6.5 "Checking media height" p.53 for further information.
- 4. Press both the UP and DOWN buttons together to turn the lock mode on.
- 5. Press the EJECT button to ensure that the printer is not in "load mode"

NOTE

When the printer bed is put into diagnostic mode as is done in preparation for the Bi-Directional adjustment (by pressing & holding LOAD and EJECT buttons during power up in printer diagnostic mode), the normal operation of the LOAD and EJECT buttons are suspended. That is, these buttons will not control the movement of the Media Tray.

They do, however, set the status of the printer bed / media tray: If the LOAD button is pressed, the Load/Eject status light will change to green, and the printer will "think" that media has been loaded. If the EJECT button is pressed, the light will display red, and the printer will "think" that media is not loaded.

6. From the rear of the printer, slowly pull the Media Tray towards the rear of the printer, until the Media Sensor is triggered by the interrupter located on the base of the Media Tray as shown here:



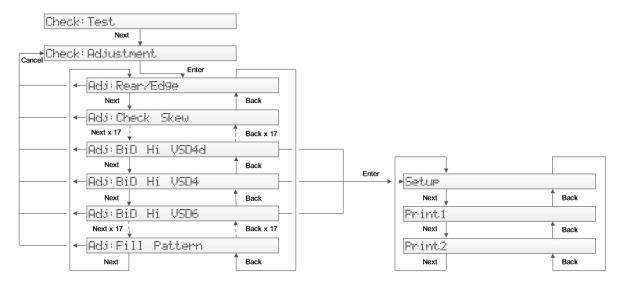
NOTE

The iUV600XL series of printer requires a different loading procedure, as it does not have a rearMedia Sensor as depicted above for the iUV600s series of printer:

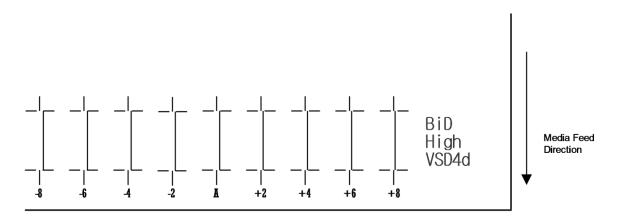
From the rear of the printer, slowly pull the Media Tray towards the rear of the printer, until the front of the Media Tray clears the Media Switch (which is located on the left hand side of the printer bed, beneath the printer carriage area). Then, from the front of the printer, pull the Media Tray back over the Media Switch, by approximately 50mm (2 inches).

- 7. Press the LOAD button to set the printer to "load mode". The Load/Eject status light should turn green.
- 8. Follow the menu selection described above in *Section 2.6.8.2"Accessing the Bi-D Adjustment Menu" p.59* to access the Bi-D Hi VSD4d utility.

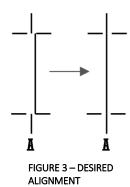
- 9. When Adj:BiD Hi VSD4d is displayed, press the [Enter] key.
- 10. Setup/Print1/Print2 will be displayed.
- 11. Use the following menu flow chart to navigate to Print1, press the [Enter] key.



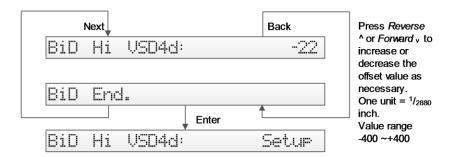
- 12. Adjustment Printing will display on the LCD screen, and the test pattern will be printed.
- 13. The platen will not eject after the test print has completed, so manually pull the platen out to the front of the printer far enough that you can examine the test print pattern.



The objective is to have the centre vertical bar of the pattern marked "A" to align with the top and bottom shorter vertical bars. This is accomplished by applying an offset value (via the screen / keypad) to compensate for the difference between the printed position and the desired position:



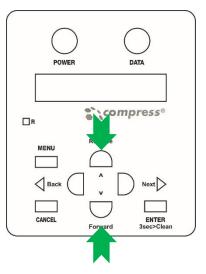
14. After the test pattern has printed, BiD Hi VSDxx:Setup should display on screen – if it does not, navigate the control panel / screen until it does (refer to Figure 3-11 Adjustment Menu Flow page 62). Press the [Enter] key to display the current offset position, and to be able to adjust it. The figures shown here are examples only, the offset values shown for each printer will differ:



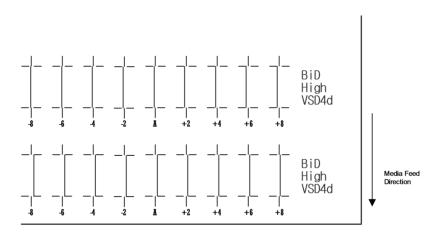
15. Press ENTERto set the new offset value.



To shift the centre vertical bar in a left direction (as per Figure 3 - Desired Alignment, above), decrease the offset value. In the example above, the value of -22 might be decreased to -30 initially. To shift the centre vertical bar to the right, increase the offset value.



16. Repeat the process of Printing the Bi-D Adjustment Pattern and Effecting the Bi-D Adjustment until the desired alignment is achieved. This can take many, many iterations.



The printer will automatically align the successive prints correctly progressively down the page.

NOTE

When the page is filled with adjustment patterns, it will be necessary to load a new sheet of paper. To indicate to the printer that new media is loaded, firstly press the EJECT button (the Load / Eject LED should show red). Manually pull the platen to the rear of the printer so that the rear media sensor interrupter is in line with the rear media sensor, press the LOAD button (the LED should show green).

17. Repeat the entire process for each of the adjustment options for Adj: BiD Hi VSD4d, Adj: BiD Hi VSD4, and Adj: BiD Hi VSD6

2.6.9 Installing & Using Printer Drivers

A printer driver is a piece of software that converts the data to be printed to the form specific to a printer, and it is usually supplied with a new printing device.

In the case of the Compress iUV600s, you will have been supplied with a RIP software which also converts the data from an image that you wish to print into a form that the printer will understand. In most cases you will not have need to use the native driver for the printer as the RIP will handle the printing process.

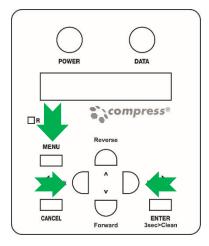
There may, however, be occasions where you have need to by-pass the RIP software for test printing purposes. The Driver installation instructions are provided here for that purpose.

2.6.9.1 Setting the IP address in the Printer

If you are installing the printer driver for network connection, then it is necessary that you set the network (IP) address in the printer before you install the printer driver.

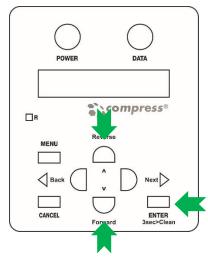
NOTE

- Be sure to set the IP address after consulting the network administrator.
- Allocate the IP addresses that do not overlap the computers or routers within LAN (Local Area Network).
- Allocate the same network address (usually the 3rd segment of IP address) as the computer that is connected to the printer.
- If you are using the printer in the network environment where IP addresses are automatically acquired, prepare an IP address for the printer outside of the address range for DHCP.
- 1. Check that the printer is turned ON, and is in a Print Ready state Section 2.5.1 "Switching the Printer ON" p.32
- 2. Press the [Menu] key on the Operation panel to change the display to the Setting menu.
 - *Menu* Test Print> is displayed on the Operation panel
- 3. Press the [Back] or [Next] keys on the Operation panel to display the Network menu



Menu Network> is displayed on the Operation panel

- 4. Press the [Enter] key on the Operation panel to display the IP address menu.
 - Network: IP Address > is displayed on the Operation panel
- 5. Press the [Enter] key on the Operation panel to display the IP address setting menu
 - 192.168.1.253 (default) is displayed on the Operation panel
- 6. Press the following keys on the Operation panel to set the value
 - \[Forward] key: decreases the setting value



- [Reverse] key: increases the setting value
- [Enter] key: changes the setting value for the next segment (the IP Address comprises 4 segments, use the [Enter] key to move between segments)

2.6.9.2 Installing the Printer Driver (for network connection)

- 1. The printer should be connected to the network before installing the printer driver 1.2.5.3.1 "Connecting Ethernet (network) interface cable" p.35
- 2. Ensure that the IP address has already been set to the printer 2.6.9.1 "Setting the IP address in the Printer" p. 68
- 3. Switch the printer on in accordance with the instructions in *Section 2.5.1 "Switching the Printer ON" p.32*
- 4. Turn on your PC.

NOTE

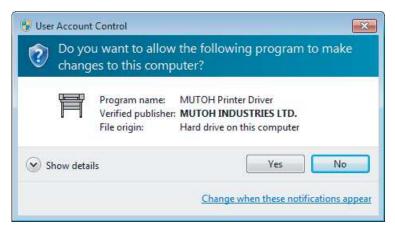
Ensure that the PC user account being used to install the printer driver has administrator authority.

- 5. Ensure that your PC boots up correctly, then insert the printer driver CD into the CD drive on your PC.
 - The installer should start.

NOTE

Depending you're your PC settings, the installer may not automatically start. If the installation does not automatically start, browse the CD to the driver folder, and then to the appropriate language folder, and execute "Setup.exe" from the CD.

6. If necessary, allow the necessary actions from any User Account Control dialog box:



7. Select the model (RJ-901X), and click "Install"

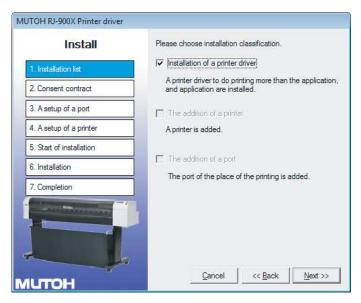


NOTE

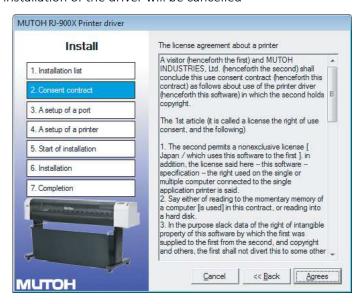
If you click "Cancel", the printer driver installation will be cancelled

• The display will move to the next screen

8. Click the "installation of a driver" check box and click "Next".

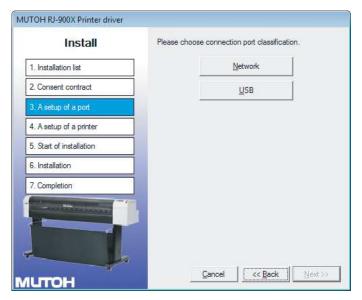


- The display will move to the next screen
- 9. The license agreement for the driver software will display.
 - a. If you agree to the written contents, click "Agree"
 - The display will move to the next screen
 - b. If you do not agree to the written contents, click "Cancel"
 - The installation of the driver will be cancelled



• The display will move to the next screen

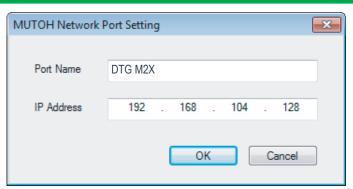
10. Click "Network"



- a. If this is the first installation of the printer driver on your PC, proceed to step 11
- b. If the printer driver has previously been installed, proceed to step 10
- 11. Make settings in the dialog box for the following items, and then click "OK"
 - a. Port name: Enter an arbitrary name
 - b. IP Address: Enter the IP address set for the printer for example: 192.168.1.1

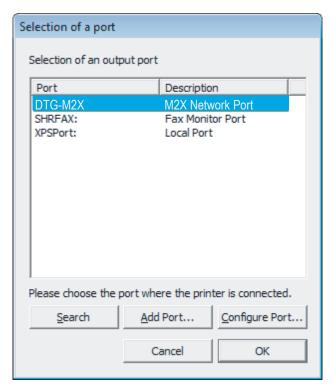
NOTE

For the IP address that is set for the printer, refer to Section 2.6.9.1 Setting the IP address in the Printer" p. 68

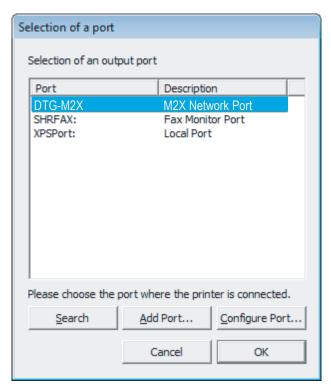


• Proceed to step 13

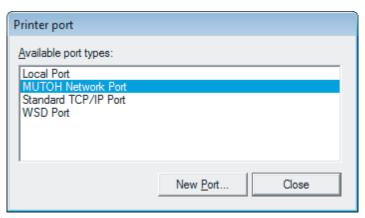
- 12. The output ports that were installed in the past are displayed on the output port list.
 - a. To use an output port that was installed in the past, select it from the output port list, and then click "OK".



- Proceed to step 13
- b. To add a new port
 - Click "Add Port".



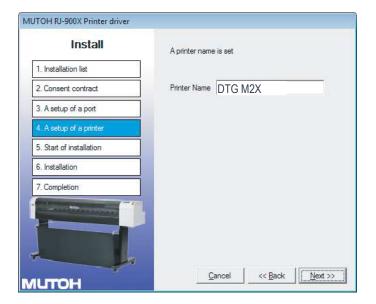
Select "MUTOH Network Port", and then click "New Port".



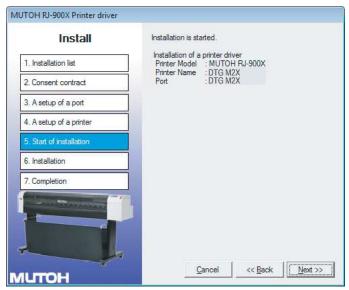
- Proceed to step 11.
- 13. Set the printer name, and then click "Next" $\,$

If you do not need to change the printer name, use the default name.

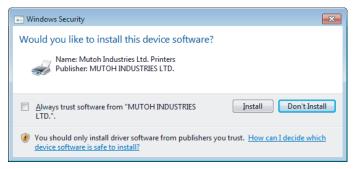
• The display will move to the next screen



14. Check the details displayed on screen, and click Next



- The driver installation will begin.
- 15. During the driver installation, a Windows security warning may be displayed. If necessary, click "Install".



16. Once the printer driver has been installed, the following screen is displayed. Click "Finish".



• This completes the installation of the printer driver.



If you click "Menu", the first screen of the installer is displayed.

2.6.9.3 Installing the Printer Driver (for USB connection)

1. Turn the printer OFF 2.5.2 "Switching the Printer OFF.p.34"

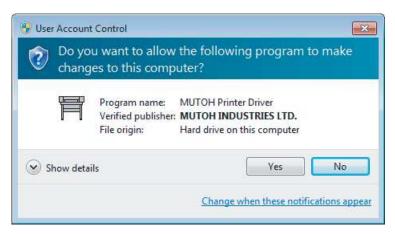
NOTE

- Do not connect the USB Cable yet.
- If you have connected the USB cable (with the printer turned on) before installing the
 printer driver, refer to Section 2.6.9.4 "If you have connected using the USB cable before
 installing the driver" p.82
- 2. Turn on your PC.
- 3. Ensure that your PC boots up correctly, then insert the printer driver CD into the CD drive on your PC.
 - The installer should start.

NOTE

Depending you're your PC settings, the installer may not automatically start. If the installation does not automatically start, browse the CD to the driver folder, and then to the appropriate language folder, and execute "Setup.exe" from the CD.

4. If necessary, allow the necessary actions from any User Account Control dialog box:



5. Select the model (RJ-901X), and click "Install"

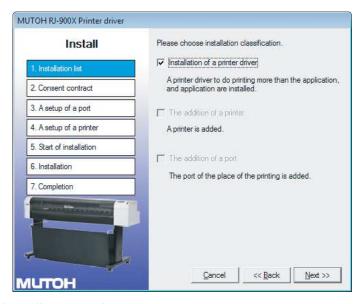


NOTE

If you click "Cancel", the printer driver installation will be cancelled

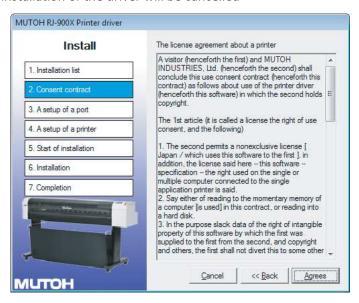
• The display will move to the next screen

Click the "installation of a driver" check box and click "Next".



- The display will move to the next screen
- 6. The license agreement for the driver software will display.
 - c. If you agree to the written contents, click "Agree"
 - The display will move to the next screen

- d. If you do not agree to the written contents, click "Cancel"
 - The installation of the driver will be cancelled



- The display will move to the next screen
- 7. Click "USB"

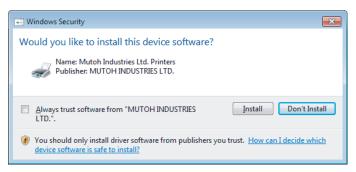


• The display will move to the next screen

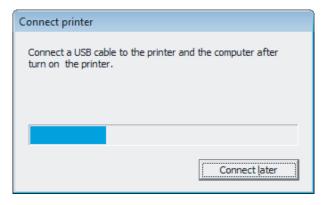
8. Driver and port to be installed will be displayed on screen – Check the displayed content, and if there is no problem, click "Next"



9. If the Windows security warning is displayed during the installation, click "Install".



- 10. At this stage, the installer is waiting for the printer to be connected to the computer by USB cable.
 - a. Wait until the standby dialog is displayed.
 - b. Turn the printer ON
 - c. Connect the printer and computer with a USB cable.



NOTE

- If you have connected the USB cable before installing the printer driver, refer to Section 2.6.9.4 "If you have connected using the USB cable before installing the driver" p.82
- If the printer has not been fully prepared, click "Connect later"
- The driver installation will begin.
- Once the driver has been installed to Windows, the USB connection dialog will automatically close.



- 11. If you are using Windows XP, Found New Hardware Wizard may be displayed.
 - a. Select "No, not this time" and then click "Next".
 - b. Select "install the software automatically", and then click "Next".



• Once the printer driver has been installed, the following screen is displayed.

12. Click "End".



• This completes the printer driver installation.

NOTE

- If you click "menu" the first screen of the installer is displayed.
- If the printer was not connected during the installation, connect it after this.

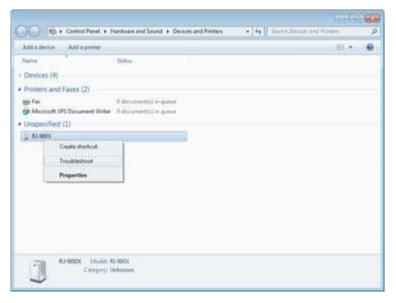
2.6.9.4 If you have connected using the USB cable before installing the driver

1. For Windows 7

1. Complete steps 3 to 10 of Section 2.6.9.3 Installing the Printer Driver (for USB connection) p. 76.

NOTE

- Select "Connect it later" in step 10 of Section 2.6.9.3 Installing the Printer Driver (for USB connection) p. 76.
- 2. Connect the USB cable
- 3. Turn the printer ON.
- 4. Devices and Printers (from Control Panel) should display (if it does not, start it manually).
- 5. Right-click "RJ-901X" which is displayed as an unspecified device and select "Trouble shooting".

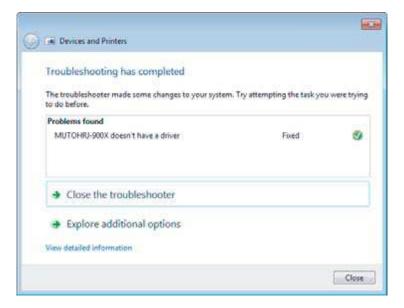


• The computer should attempt to detect the problem, and then will display a solution.

6. Select "Apply this correction".

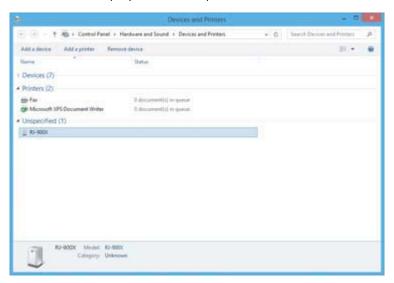


7. Check that the problem is solved, and then finish troubleshooting.



2. For Windows 7

- 1. Open "Devices and Printers" from Control Panel on your PC.
- 2. Select "RJ-901X" which is displayed as an unspecified device and click "Remove device".



- 3. Turn the printer OFF
- 4. Remove the USB cable.
- 5. Follow the procedure from step 3 of *Section 2.6.9.3 Installing the Printer Driver (for USB connection) p. 76* to start installation.

3. Printing to Rigid Substrates

3.1 Introduction

Printing on various items with the Compress iUV600s [™] is a very simple process involving five easy steps:

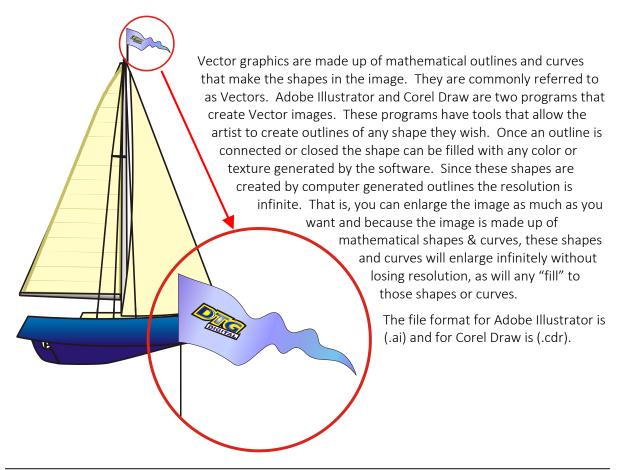
- 1. Create an image in any of your graphics programs
- 2. Prepare a substrate or item for printing
- 3. Prepare the substrate and load the substrate or item onto the printer
- 4. Set-up your image for printing with the RIP program
- 5. Press the Print button.

Once you are comfortable with the basic operations of your Compress iUV600s™, you are ready to proceed!

3.2 Prepare Your Image

Your product will only ever be as good as the artwork from which it is printed, regardless of the RIP that is used to send the printing information to the printer. It is essential that you have a basic understanding of image or graphic types in order to understand your artwork:

(1) Vectors



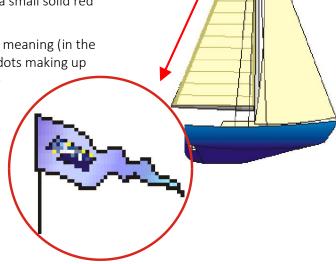
(2) Bitmaps

Bitmaps are images made up of pixels. This is a grid of small squares of appropriate colours that when viewed at a distance make a graphic image such as a digital photograph or digital art. Bitmaps are technically known as Raster Images. Since these images are made up of a finite number of bits generated at the time of the creation of the image, there are limits as to how much you can enlarge the image. Imagine a small solid red square, say 1 inch x 1 inch.

This square was digitally created at 300dpi, meaning (in the simplest terms) there are actually 300 red dots making up

the red square. If you now want to enlarge that red square to 2 inches x 2 inches, it is possible, however you still only have 300 red dots to fill that square.

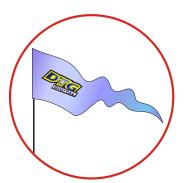
The most common file formats for Raster Images are Bitmaps (.bmp), Jpegs (.jpg), Tiffs (.tif), and Gifs (.gif).



(3) Resolution

Because a Raster or bitmap is made up of little square dots of colour, the images can often have a jagged look. The greater the number of pixel dots per inch the less jagged the image will look. It will also increase the data size of the file considerably. Dots per inch or DPI is the measurement of the pixel density. One example of low DPI images are web graphics. Web graphics are low to minimize the amount of data bites it takes to load a web page. Web graphics are usually 72dpi or 96dpi. In printing on fabric, it is best to use a DPI of at least 200dpi, preferably 300dpi or greater – at the printing size.





Programs such as Photoshop can be used to "upsample" a small, low resolution image to an image of suitable size & resolution, however you must be aware that these programs will make assumptions & calculations as to where to place the extra pixels & what colour to make them. Images that have been upsampled in this way will often have softer edges, but will be less pixilated. Unless you are proficient in graphics programs, it is always best to ask your client for a higher resolution file in the first place.

Also ensure that there is not excessive "blank" space around the edges of the image – even blank space counts towards image size and may cause the actual "picture" to print small in order to fit the en tire image on to the platen. Trim unnecessary blank space from the top, bottom & sides of the image.

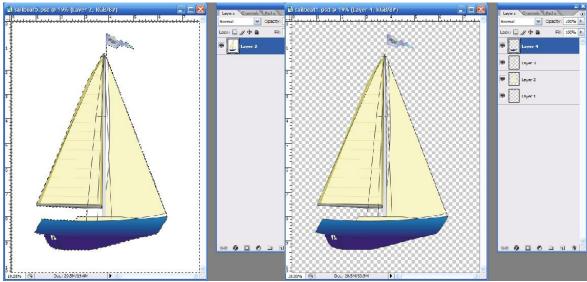
(4) Image Sharpness & Saturation

Images printed to fabric often tend to be softer & darker than what the image appears on screen. You may need to adjust images to give them a colour boost using a saturation adjustment in the graphics program, and/or sharpen the image using suitable sharpening tools within the graphics program.

(5) Transparent Backgrounds

As we have already discussed, regular bitmap images are made up of coloured pixels; this includes the background (even a plain white background!). In a digital photograph, the rectangle is filled entirely with colour. Graphic images are not usually just a rectangle. They are shapes and text. The background area is usually filled with white pixels. To print on a media other than white, it is almost impossible to match the digital colour with the colour of the media.

In programs such as Photoshop, the file data includes transparent pixels as a background colour of choice. If the file is set to have a transparent background, then a removed or erased pixel will be virtually removed. Transparent backgrounds are often represented by a grey and white checker board pattern.



WHITE PIXELS IN BACKGROUND

TRANSPARENT PIXELS IN BACKGROUND

The standard printer driver was designed to print on a white surface using colour ink. Inherently, it ignores white pixels in an image when printing, and only prints the colour pixels.

The RIP supplied by your authorized DTG Distributor, however, is designed to print all non-transparent pixels, and particularly, to print white pixels with white ink.

It will separate the image into a white ink "underbase" layer (made up of all pixels in the image) and a colour layer with very little additional effort on your part.

3.3 Substrate Preparation



LED curable UV ink allows you to print onto the greatest variety of substrates, ink adhesion is promoted on some substrates by way of applying a primer. Consult your product representative for available primers, their application and use as well as what alternatives are available. It is assumed that proper substrate sampling/trialing has been committed to prior to the purchase of your machine

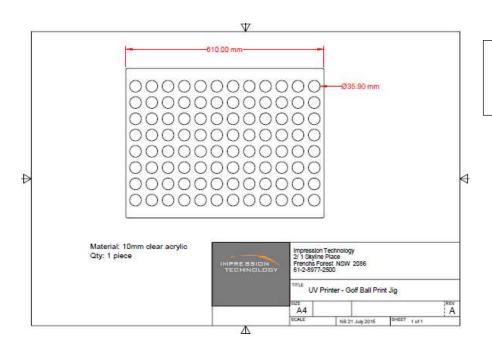
The following information is supplied specifically in relation to Pigmentinc P70i UV –LED inks and primers Please refer to instructions supplied with alternative primers / inks as the processes and results will vary.

Glass, most metals, and some plastics require a pre primer process. The primer / underbase forms a special receptive surface for the UV ink to adhere to. POOR PRIMER = POOR PRINT QUALITY.

Many substrates will not require any form of preparation and can be printed and packed without additional steps and man handling.

It should be noted that as a manufacturer we have no control over the immense variety of substrates that end may wish to print onto. Therefore, we suggest that you test all media/substrates and ensure suitability for UV printing. Ink adhesion should be the main consideration and should be confirmed prior to accepting commercial print orders.

It should also be noted that for printing onto irregular shaped object, for example promotional items, that an accurate template should be made to ensure that the placement of the object in relationship to the graphic file match perfectly.



Example of template file suitable for printing golf balls

Safety
Please refer to the supplied MSDS sheet prior to the safe use of any ink chemical products.

Suggested equipment and consumables for substrate preparations.

- IPA/ Isopropyl, this is effective for a variety of substrates
 - 1. Glass, for cleaning oily finger marks and dust of glass product
 - 2. Plastics, cleans down mold residue or oily films of certain plastics
 - 3. General cleaning and maintenance on machine
- Polyester lint free cloths for applying primers and using IPA to wipe down surfaces
- Latex gloves to protect ink stains on fingers and hands

Recommended procedure:

- The following procedure will help ensure consistent quality and perfrormance
- Agitate or shake the primer solution prior to use.
- Use of primer should be done in a well ventilated area.
- Apply the primer using a polyester lint free cloth or sprayer application tool as recommended by the primer supplier.
- Using the spraying system, spray the primer evenly on the area that is to be printed.
- Prime the sprayer for a few seconds by spraying into a large cup, but not on to the substrate area. This helps prevent larger drops that occur when the sprayer is starting up.
- Keep the sprayer about 12 inches (0.3 meters) from the substrate and begin spraying from the top to the bottom in a left to right (and then reverse, right to left) motion without ever turning off the sprayer
- It is good practice to allow the sprayer to go beyond the edges of the substrate before beginning or reversing direction. This prevents more pretreatment from being deposited on the substrate during the direction change.
- Follow primer manufacturers recommendations as to curing time of primer prior to printing, some will cure under the LED UV lamps and can be used immediately after application.

TIP

If you are printing only a small image on a substrate, you can make a mask or stencil to place over the substrate before spraying, so that only the required print area of the substrate receives the primer

3.4 Load Platen to Printer

3.4.1 Put platen into the correct position using 0/0 point.

The front right hand corner of the machine is considered to be the 0/0 point or home position of the machine. It is best practice to accurately place your substrate or template to this position. You will need to create template files in your graphic software that match the substrate and/or templates.

This process may take some time especially if you are printing onto a variety of different objects. Once accurate templates and graphic files are generated the process of loading product and printing becomes fast and simple.

3.4.2 Adjust Printing Bed Height / Move Platen to the Top of Page position 5.6.6 "Loading Media for Printing" p.52

3.5 Print Your Image

Refer to the manual for your RIP for detailed information on sending print information to the CompressmiUV600s

Checking PRINT QUALITY

Print quality is an extremely important component of the printing process. You can check the print quality by printing a Nozzle Check 2.6.6 "Performing a Nozzle Check Test Print" p.55. Be aware that you will need to do a Head Cleaning:

- if any streaking appears in the print
- if small drops of ink get on the garment during a printing cycle
- if the unit has been sitting for a few days
- if the printing head brushes the garment



2.5.5 "Performing a Head Clean from the Operation Panel" p.42. Severe head clogging may require you to do several head cleanings one after the other. Best practice is to contact your product representative for detailed instructions

3.6 Post-Printing/Curing

Your iUV600s comes equipped with a UV lamp intensity controller. This simple device easily adjusts the LED UV lamp power output using the 2 potentiometer knobs as shown in figure below.

As part of your substrate print trials consider running the UV lamps at the lowest possible intensity so that the inks still cure.

As a general rule, product that may be sensitive to heat such as films and styrene should be run at the lowest possible settings whereas stainless steel and glass should be run at highest settings.

To adjust the intensity, turn the knobs right or left, the blue LED indicators are a visual guide only.



The UV lamp intensity controller can be seen here.

The right hand knob controls the right hand UV lamp and the left hand knob controls the left hand lamp

WARNING!!

Do not look directly into the UV lamp with the naked eye to confirm change in lamp intensity. UV rays can be very damaging to the human eye

After the Compress iUV600s[™] has finished printing, the Printing Bed will automatically eject the platen to the front of the printer (or to the rear of the printer on the iUV600XL if your RIP allows this feature).

Remove the substrate or template

Carefully remove the substrates from the Platen, Inks will be cured but may on some substrates require some additional post curing time through exposure to natural daylight.



The conditions listed above are general guidelines for curing of the P701 range of UV curable inks. Due to potential differences in substrates, and operating environments, these general guidelines may not be sufficient or applicable in all cases. Each customer should carry out on-site tests to identify the optimal print parameters for their preferred substrates and equipment set-up.

3.7 Cancelling a Print Job

3.7.1 Introduction

On rare occasions you may find you cannot get your printer to print. Check the following to rectify the problem:

- Is the printer in the ready state when you send the print command?
- Is there a message on the Control Panel LCD Display or an indicator light on the Control Panel
- Is there a problem with the file you are printing from?

3.7.2 Cancelling the Print Job

It may be best to cancel the print job and start again. As with any inkjet printer, it is sometimes difficult to stop a print job with the Compress iUV600s once you have set it in motion.

- 1. Firstly, press the Emergency Stop button on the front of the printer this will immediately cut power to the printer & stop the print job.
- 2. Press the [Power] key to return the Control Panel to an "off" state.
- 3. Open the Top Cover of the printer and gently slide the Carriage Assembly to the right until it "clicks" into it's home position on the Capping Station.
- 4. Cancel / clear the print job from the RIP and / or the Windows Print Queue.



Do not allow the Carriage assembly to remain out of the capping station for longer than two or three minutes. Failure to do so will result in possible blockage of print nozzles due to ink exposure on the nozzle plate to natural UV light. This may result in irreversible damage to the print head requiring print head replacement.

3.7.3 Re-starting the Printer after Cancelling a Print Job

Re-start the printer by following the steps shown at 2.5.1 "Switching the Printer ON" p.32

4. General Care & Maintenance

4.1 Introduction

Whilst your Compress iUV600s[™] is built with many standard components and shares the ease of use of a standard professional printer, that's where the similarities end. Your iUV600s will be operating under what could be considered extreme conditions for an inkjet printer – exposure to primers and potentially dirty/dusty work environments can be harmful to your printer. As such, it is important that you take a few minutes each day to properly maintain your Compress iUV600s[™] – this will ensure that it runs in optimal condition.

4.2 Execute a Print Head Clean at the end of production

Execute a Print Head Clean at the end of your daily production. 2.5.5 "Performing a Head Clean from the Operation Panel" p.42

4.3 Run the Nozzle Check test print each day before starting production

You'll discover any missing nozzles BEFORE you run your first production job! Refer Section *2.6.6* "Performing a Nozzle Check Test Print" p.55 for further information.

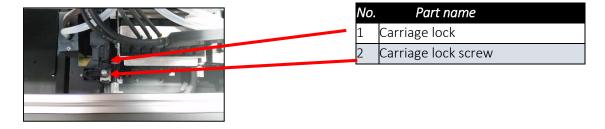
4.4 Maintaining the Ink System

4.4.1 Accessing the Capping Station

NOTE

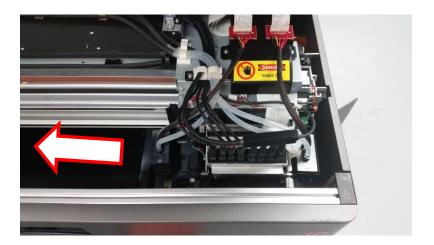
No tools are required for this procedure.

- 1. Open the top cover (lid) and locate the carriage lock unit near the colour dampers.
- 2. Locate the carriage lock screw and gently depress.



The carriage assembly will make a clicking sound and may move softly to the left.

3. Push the carriage assembly gently to the direction of the arrow, away from the capping station.





Do not allow the Carriage assembly to remain out of the capping station for longer than two or three minutes. Failure to do so will result in possible blockage of print nozzles due to ink drying. This may result in irreversible damage to the print head requiring print head replacement.

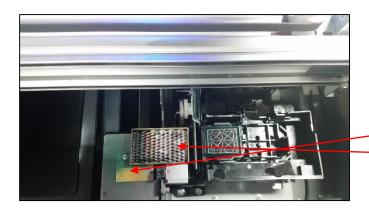
4.4.2 Cleaning the Flushing Tray

NOTE

No tools are required for this procedure. The flushing tray must be cleaned on a daily basis. Use protective gloves to avoid stained fingers. Use recommended cleaning fluid ONLY.

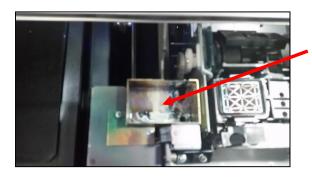
Stubborn or dried ink can be removed carefully with tweezers or a toothpick.

- 1. Access the capping station.
- 2. Remove the honeycomb flush pad by using a small hook and lifting the pad upwards being careful not to spill liquid ink from the underneath side.
- 3. Take not of the angle of the honeycomb, ensure when re-inserting that the cells drain towards the capping station



	No.	Part name
_	1	Flushing Tray
_	2	Honeycomb flush pad

- 4. Clean inside the Flushing Box and around the edge thoroughly with a swab and cleaning fluid.
- 5. Flush the honeycomb flush pad thoroughly using cleaning fluid



Photograph on the left depicts typical ink deposits and build-up after a single week of machine operation



Do not allow the Carriage assembly to remain out of the capping station for longer than two or three minutes. Failure to do so will result in possible blockage of print nozzles due to ink drying. This may result in irreversible damage to the print head requiring print head replacement.

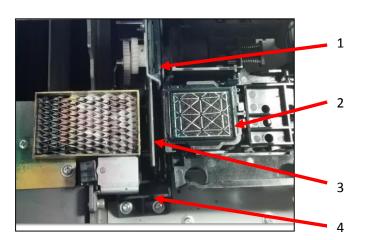
4.4.3 Cleaning the Wiper and Head Cap

NOTE

No tools are required for this procedure. The wiper, gutter, slider and head cap must be cleaned on a daily basis. Use protective gloves to avoid stained fingers. Use recommended cleaning fluid ONLY.

Stubborn or dried ink can be removed carefully with tweezers or a toothpick.

- 1. Access the capping station.
- 2. Clean the wiper and slider carefully with a swab and cleaning fluid.
- 3. Clean the gutter with a swab and cleaning fluid.
- 4. Clean the head cap lip with a swab and cleaning fluid.



Photograph on left depicts typical buildup of ink residue after a single day printing. This must be cleaned thoroughly on a daily basis. Training on proper maintenance and cleaning is very strongly recommended

No.	Part name
1	Wiper
2	Head cap lip
3	Slider
4	Gutter

- 5. Pour a few drops of cleaning fluid into the cap.
- 6. Execute a normal head clean
- 7. Execute a nozzle check and confirm that the head is printing well
- 8. Slide the carriage (right) back into home position so that it locks into the capping station.

A CAUTION

Do not allow the Carriage assembly to remain out of the capping station for longer than two or three minutes. Failure to do so will result in possible blockage of print nozzles due to ink drying. This may result in irreversible damage to the print head requiring print head replacement.

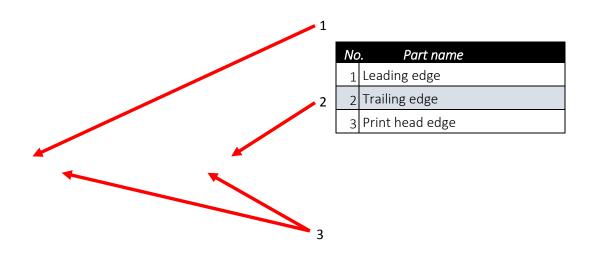
4.4.4 Manual Print Head Guards Clean

NOTE

No tools are required for this procedure. The head surrounds must be cleaned on a daily basis. Use protective gloves to avoid stained fingers. Use recommended cleaning fluid ONLY.

Stubborn or dried ink can be removed carefully with plastic tweezers or a toothpick.

- 1. Remove any templates from the printer.
- 2. Lower the print bed to allow hands to access underneath the head
- 3. Release the carriage assembly (see accessing the capping station).
- 4. Move the carriage to the centre of the printer.
- 5. Clean the leading and trailing edges of the carriage with a swab and cleaning solution.



- 1. Carefully clean the metal edges of the print head with a swab and cleaning solution.
- 2. Execute a normal head clean
- 3. Execute a nozzle check and confirm that the head is printing well



Do not touch the print head face.

Do not allow the Carriage assembly to remain out of the capping station for longer than two or three minutes. Failure to do so will result in possible blockage of print nozzles due to ink drying. This may result in irreversible damage to the print head requiring print head replacement.

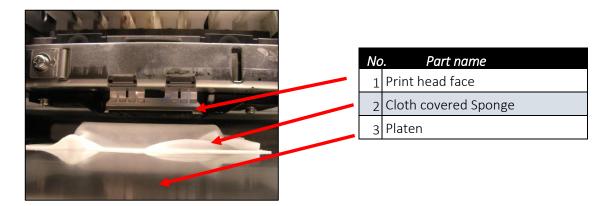
4.4.5 Parking the Print Head

NOTE

This process allows the operator to park the print head in such a way that remedial work may be carried out in the capping station or upper carriage assembly without damaging the print head due to ink drying in the nozzles. No tools are required for this procedure. Use protective gloves to avoid stained fingers. Use recommended cleaning fluid ONLY.

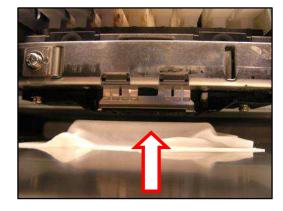
Absorbent paper towels and the sponge & microfiber cloth (from maintenance kit) will be required for this process. Prior to execution of this procedure it is highly recommended to discuss with your product representative

- 1. Place a sponge from the cleaning kit onto the machine bed
- 2. Pour enough cleaning fluid onto the sponge until it becomes saturated.
- 3. Place a piece of the white microfiber cloth (from the cleaning kit) over the top of the sponge.
- 4. Unlock the carriage and slide it towards the left.
- 5. Align the print head face to the cloth covered sponge.



6. Carefully raise the platen bed by pressing the bed UP button until the print head face is pressed lightly against the saturated sponge. The sponge must be compressed to NO LESS than two thirds of its original height.







Do not allow the sponge to press too hard against the print head as this will cause catastrophic damage to the print head, carriage assembly and platen drive system. The sponge must be compressed to NO LESS than two thirds of its original height.

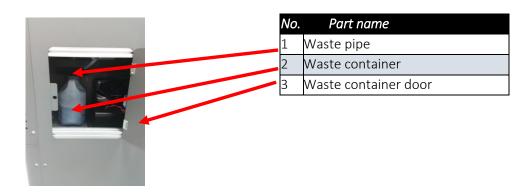
4.4.6 Emptying the waste ink container

During the Head Cleaning process your Compress iUV600sTM forces ink through the print head. This excess ink goes into a holding bottle called the **Waste Ink Container**. Check this bottle regularly, and empty it when it is getting full or before an ink flush or power clean procedure. Remember you must comply with local regulations in disposing of its contents.



No tools are required for this procedure. Waste ink should be checked on a daily basis and disposed of in strict accordance with local ordinances and regulations.

- 1. Open the waste container door to allow access to the container.
- 2. Carefully tip the container so that the base comes towards you.
- 3. Ensure that the container opening clears the waste pipe.
- 4. Remove the container through the waste container door
- 5. Ensure container is placed underneath the waste pipe properly when reinserting





Do not allow the waste container to become too full as this will result in waste spillage. Take care not to tip the container too far when removing.

Be sure to dispose of waste ink in strict accordance with local ordinances and regulations.

4.5 Other Maintenance Items

4.5.1 Powerful Head Cleaning

In some instances, the Head Cleaning mentioned above in Section 2.5.5 "Performing a Head Clean from the Operation Panel" p.42 is not strong enough to clear stubbornly blocked nozzles. In these cases, it may be necessary to execute a stronger cleaning on the printer via the Control Panel menu. The same menu can be used to execute an ink charge in instances where it is necessary to move a larger volume of ink through the printer (such as refilling of inks, flushing the system etc.).

It must be noted that this process consumes a considerable amount of ink and should only be used *in extreme situations:*



Ensure that the Waste Ink Container has been emptied in accordance with Section 4.4.6 "Emptying the waste ink container" p.101

4.5.1.1 Accessing the Cleaning Menu

To access the Cleaning menu, ensure that the printer is in a Print Ready state (see Section 2.5 "Basic Operations" p.32).

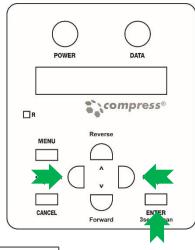
Press the [Menu] key to shift the operation panel to Menu display (see Product Overview chapter reference

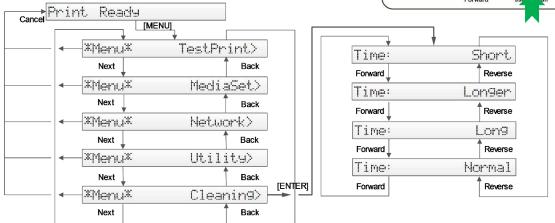
Follow the operation flow shown below to operate the normal operation Menu display and access the Cleaning Menu.

2. Press [Next] key or [Back] key in the operation panel to scroll through the menu. Then, press [Enter] key to confirm the menu option displayed.

The button presses required to enter the Cleaning Menu from the start of the Menu display are:

[Back] [Enter] or [Next] [Next] [Next] [Next] [Enter]





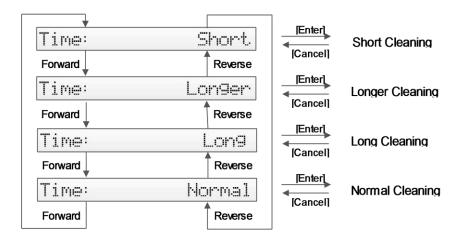
3. When the [Enter] key is pressed to confirm / select the*Menu*:Cleaning menu option, the first item of the Cleaning Menu will display –Time:Short.

4.5.1.2 Select the Cleaning Option Required.

- 1. Press [Next] key or [Back] key in the operation panel to scroll through the menu. Then, press the [Enter] key to confirm the menu option displayed.
- 2. The Cleaning Menu options are:

Cleaning Menu Option	Contents
Short	Discharges a smaller amount of ink when compared to normal cleaning.
Longer	Use this option when a very strong head cleaning is required. This option is more effective than a "Long" Head Cleaning, and it also consumes considerably more ink.
Long	Use this option when a "normal" head cleaning operation is not sufficient.
Normal	Performs standard Head Cleaning.

TABLE 4-1 ITEMS IN CLEANING MENU



NOTE

Executing several consecutive Longer Cleanings may trigger the printer's internal waste ink counter. This is a self-protection mechanism to help remind the user to monitor & empty the waste ink container. If the waste ink counter is triggered during a Cleaning, it will be evidenced by the printer appearing to "freeze" during the Cleaning process – there will be no apparent activity for 30 seconds or more.

To reset the internal waste counter, it will be necessary to power the printer off (**\overline{\mathbb{Z}} 2.5.2 "Switching the Printer OFF." p.34) and then restart it in Normal mode (**\overline{\mathbb{Z}} 2.5.1 "Switching the Printer ON" p.32). If it is necessary to continue the ink charge process, again turn the printer off, and restart it in the Self Diagnosis mode **\overline{\mathbb{Z}} 4.5.1.1 "Accessing the Cleaning Menu" p.102

4.5.2 Ink Charge

It may be necessary to execute an ink charge in instances where it is necessary to move a larger volume of ink through the printer (such as refilling of inks, flushing the system etc.).

It must be noted that this process consumes a considerable amount of ink and should only be used *in extreme situations:*



CAUTION

Ensure that the Waste Ink Container has been emptied in accordance with Section 4.4.6 "Emptying the waste ink container" p.101

The powerful clean / ink charge options can only be accessed through a "hidden" menu called the Self-Diagnosis menu.



CAUTION

Note that the Self-Diagnosis menu contains several menu options which are intended for use ONLY by a trained & authorized Compress technician. It is very important that you do not execute any other of the menu options available in the Self-Diagnosis menu – incorrect settings or the execution of some menu items may result in damage to your printer.

4.5.2.1 Accessing the (Diagnosis) Cleaning Menu

The ink charge options can only be accessed through a "hidden" menu called the Self-Diagnosis menu. Additionally, the printer bed must also be put into "Diagnosis" mode.

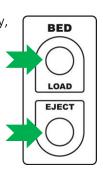
4.5.2.2 Accessing the Self-Diagnosis Menu

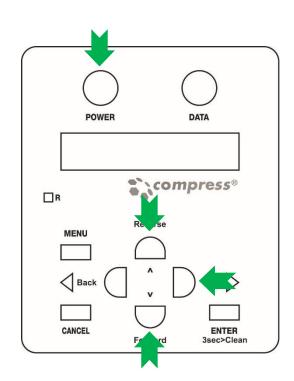
To access the Adjustment menu, select the self-diagnosis menu on the operation panel, and simultaneously put the bed operation into diagnostic mode.

The self-diagnosis menu is completely independent of the normal operation mode and self-diagnosis display mode. To call up the self-diagnosis menu, follow the steps below.

- 3. If the system is in the operation mode or the self-diagnosis menu mode, press [Power] key to turn the printer off.
- 4. While holding down [Reverse] key, [Forward] key and [Next >] key in the operation panel AND the [LOAD] and [EJECT] buttons simultaneously, press [POWER] key.

The system will enter the selfdiagnosis mode and display the self-diagnosis menu.





NOTE

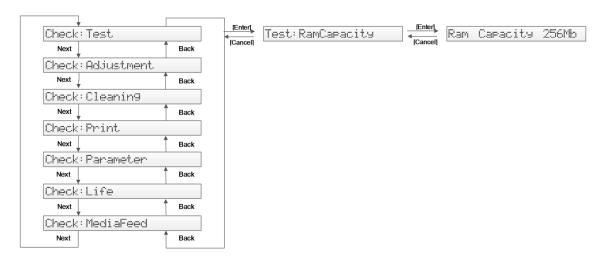
Be sure to continue to depress the [Reverse] key, [Forward] key and [Next >] key in the operation panel, together with the Load and Eject bed buttons, until the printer emits a series of "beeps".

The system will enter the self-diagnosis mode and display the self-diagnosis menu:

- 7. After a short delay the screen will display Initializing
- Shortly thereafter, the printer will emit a series of "beeps"
- After another short delay, the screen will display Check: Test this is the first menu item in the Self-Diagnosis Menu.
- Shortly thereafter, the screen will display Test:RamCapacity.

NOTE

If one of the bed buttons (load, eject etc.) is pressed at this stage, it is likely that the screen display will progress to RAM Capacity 256Mb. Use the following operation flow shown here to return the display to Check:Test



NOTE

When the printer bed is put into diagnostic mode as is done in preparation for the Bi-Directional adjustment (by pressing & holding LOAD and EJECT buttons during power up in printer diagnostic mode), the normal operation of the LOAD and EJECT buttons are suspended. That is, these buttons will not control the movement of the Media Tray.

They do, however, set the status of the printer bed / media tray: If the LOAD button is pressed, the Load/Eject status light will change to green, and the printer will "think" that media has been loaded. If the EJECT button is pressed, the light will display red, and the printer will "think" that media is not loaded.

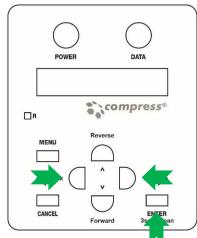
Ensure that the Load/Eject status light is green, failure to do so will mean that the menu navigation described below will not function correctly.

4.5.2.3 Navigating to the (Diagnostic) Cleaning Menu

Follow the operation flow shown below to operate the self-diagnosis Menu and access the Cleaning Menu.

3. Press [Forward] key or [Reverse] key in the operation panel to scroll through the menu. Then, press [Enter] key to confirm the menu option displayed.

The button presses required to enter the Adjustment Menu from the start of the self-diagnosis menu are as per this flow chart:



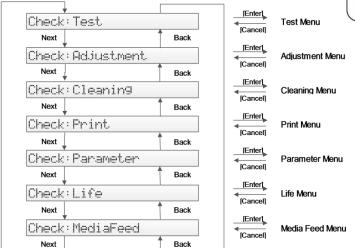


FIGURE 4-1 DIAGNOSTIC MENU FLOW

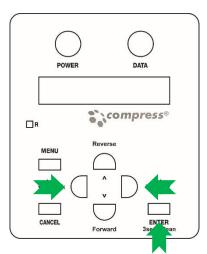
4.5.2.4 Navigating to the (Diagnostic) Cleaning options

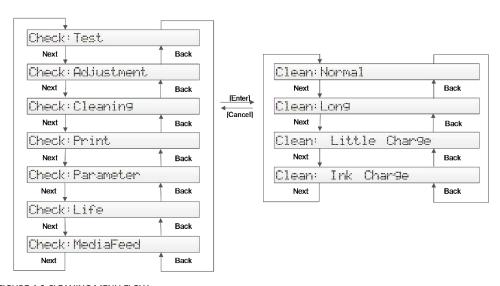
Follow the operation flow shown below to operate the Adjustment Menu and access the Cleaning options.

1. Press [Next] key or [Back] key in the operation panel to scroll through the menu. Then, press [Enter] key to confirm the menu option displayed.

When the [Enter] key is pressed to confirm / select the Check:Cleaning menu option, the Print Head will release from the Capping Station and make small movements & some noise for 15-20 seconds or so before settling back into the Capping Station. This is normal.

The button presses required to select the first Cleaning from the start of the Cleaning menu are as follows: [Enter]





2. FIGURE 4-2 CLEANING MENU FLOW

(Diagnostic) Cleaning Options. When it is finished, the display will read the Cleaning option that was just completed.

(Diagnosis) Cleaning Menu Option	Contents
Normal	Performs a normal head cleaning
Long	Use this option when a "normal" head cleaning operation is not sufficient.
Little Charge	Use this option to pull a small amount of ink through the ink lines / print head (less than Ink Charge option, but more than Long Cleaning)
Ink Charge	Use this option to pull a larger amount of ink through the ink lines / print head.

4.5.2.5 Exiting the Cleaning / Self Diagnosis Menu To quit the selected menu option, press [Cancel] key in the operation panel.

o The system returns to an upper hierarchy of the diagnosis menu.

Forward

ENTER 3sec>Clea

To exit the self-diagnosis menu, press [Power] key. This will turn the printer off. To re-start the printer in the normal mode, turn the printer on in accordance with 2.5.1 "Switching the Printer ON" p.32

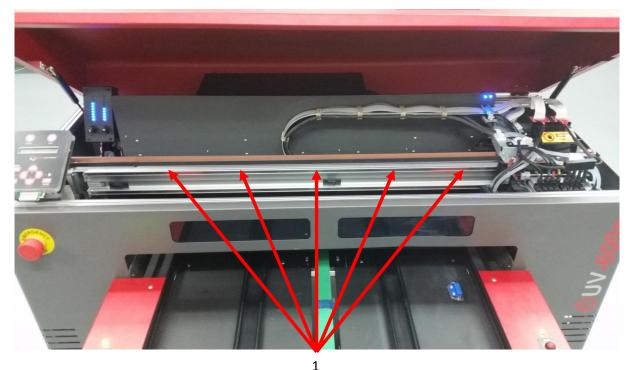
4.5.3 Clean the CR Encoder Strip

NOTE

No tools are required for this procedure. Use protective gloves to avoid stained fingers. Use recommended cleaning fluid ONLY.

The microfiber cloth (from maintenance kit) will be required for this process.

The Encoder Strip is the thin plastic strip that runs behind the Print Head for the length of the carriage area. It looks to be clear or at least slightly grey in colour, but is in fact clear with hundreds of fine vertical marks on it. There is a sensor that sits at the rear right side of the Print Head carriage which "reads" these vertical marks so that the Print Head knows exactly where to spray the ink. You can understand that if this strip gets dirty, the sensor will be unable to read these marks properly and your printer is likely to get "confused". Lint from your garments, ink overspray, and even airborne pre-treatment spray can all contribute to a grime build-up on the Encoder Strip, and it is important that you clean this strip at least weekly, even daily if you have a high daily production volume:



No. Part name

1 CR Encoder Strip

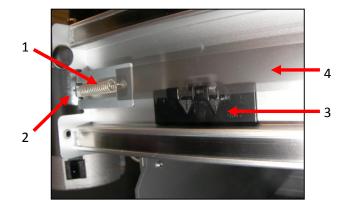
NOTE

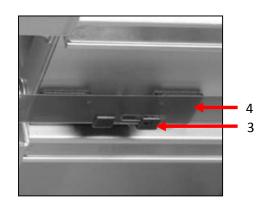
Before cleaning the CR encoder strip, ensure the printer is switched off 2.5.2 "Switching the Printer OFF." p.34

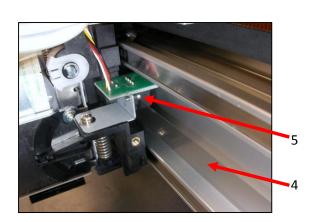
A CAUTION

When performing the following steps, be careful not to touch the CR Encoder Strip with bare hands or get it soiled with ink. Also be extremely careful not to scratch it by, for example, hitting it against frames. Any dirt or scratches on the CR Encoder Strip may cause a malfunction of the CR Encoder Sensor.

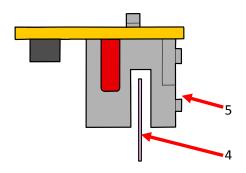
- Do not pull the CR encoder strip by force; CR encoder strip guide can be easily broken.
- Pay attention not to damage or break the CR encoder strip.







N	o. Part name
1	CR Encoder Spring
2	CR Encoder Spring Hook
3	CR Encoder Strip Guide
4	CR Encoder Strip
5	CR Encoder Assembly



Using a microfibre cloth (as supplied in the maintenance kit of the printer), moistened with distilled or purified water, or approved Cleaning Solution, GENTLY rub both faces of the encoder strip.





Do not rub with excessive force as you may remove the markings from the CR Encoder Strip.

If the cloth or applicator gets dirty, discard it and use a clean one.

Release the Print Head Carriage (refer 4.4.1 "Accessing the Capping Station" p.95) and gently slide the Print Head Carriage from it's home position. This will give you easier access to the other end of the encoder strip.

Allow the encoder strip to dry thoroughly before using the printer again.



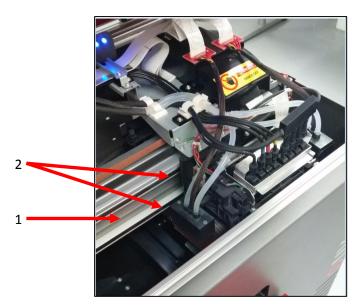
Do not allow the Carriage assembly to remain out of the capping station for longer than two or three minutes. Failure to do so will result in possible blockage of print nozzles due to ink drying. This may result in irreversible damage to the print head requiring print head replacement.

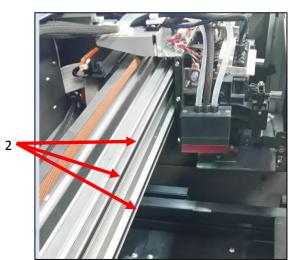
4.5.4 Clean the CR Guide (X Rail)

Inspect the CR Guide (X Rail) regularly & remove any dust & grime build up with a soft dry cloth.

In most instances, it will not be necessary to re-grease CR Guide, as the Carriage moves along the guide supported by roller bearings. A <u>very</u> small amount of White Lithium based grease can be applied to the bearing surface CR Guide every 6 months or so if necessary.

N	o. Part name
1	CR Guide (X Rail)
2	CR Guide Bearing Surface

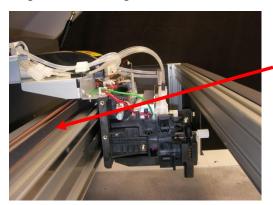




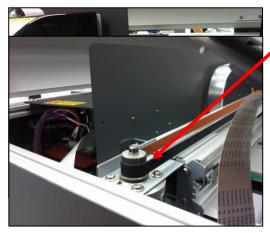
4.5.5 Clean the CR Drive Belt, Roller and Pulley

The CR Drive Belt, Pulley & Roller can collect a build-up of pre-treatment, dust & lint in their "teeth". An excessive build up can cause the Print Head to "skip" during printing.

he Drive Belt & Gear are driven by the CR Motor, and in turn drive the Print Head itself left & right during the printing process. These components are located along the top of the CR Guide, the CR Belt Roller is directly behind the Carriage Assembly (when in home position), the CR Drive Belt runs the length of the Carriage area, and the Roller is located on the far left side of the printer.



N	o. Part name
1	CR Drive Belt
2	CR Belt Roller
3	CR Belt Pulley



Use a small brush or mini-vacuum cleaner to clean the teeth of the Drive Belt and the Drive Gear. You may also need to use a small sharp object and/or a small pair of tweezers to remove stubborn build up (take care not to scratch or damage the Drive Belt or Gear in doing this).

The Roller should also be cleaned. This should be done monthly, or more frequently if your Compress iUV600s™ produces high volumes of output.



Take care not to touch the encoder strip during the cleaning process as it can be easily damaged, and attempt to "capture" any debris removed from the Drive Belt so that it does not contaminate other working components of the printer.

4.6 General Care

4.6.1 Environment

It is important to maintain consistent environmental conditions so that your Compress iUV600s[™] can run at it's best. Inkjet printers like humidity levels of 40 – 70%. They do not like extremes in temperature, so it is best to operate your Compress iUV600s[™] in an air conditioned environment – but not such that fans are blowing directly across the printer (and therefore the print head which may dry the ink in the print head itself). As the ink needs to be stored no less than 15° Celcius (59°F) and no more than 30° Celcius (86°F), this is also the recommended operating & storage temperature range for your Compress iUV600s[™]. \square 2.3.1 "Installation Environment Requirements" p.28

Dust is also an enemy of the Compress iUV600s™ (and in fact any ink-jet printer). The working environment should be relatively dust free.

4.6.2 Clean your Compress iUV600s™

Lint and dust can build up and interfere with not only the "internal" workings of the printer, but also the operation of the printer bed. Turn the printer off and clean all accessible surfaces of the printer with mild cleaner and a soft cloth (do not spray the cleaner directly onto the printer, rather onto the cloth) to remove dust & grime build up.

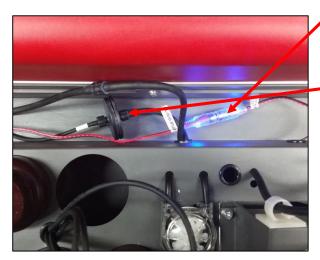
Ensure that any ink spills on or around the ink bottles in particular are cleaned immediately. If spilled ink dries on the ink bottles, specifically near the threads of the bottles or the lids, then that dried ink can potentially flake & transfer into the ink within the ink bottles. Those flakes of ink can make their way through the ink tubing and block the dampers and/or the print head.

4.6.3 Avoid White Ink Separation

White Ink is based on titanium dioxide solution. The titanium dioxide is ground into a fine powder and mixed with other binders/chemicals to allow it to adhere to various substrates. Titanium dioxide is what gives the ink its bright white properties, and this brightness gives the coloured ink layer a vibrant and rich colour.

4.6.4 Replace WIMS filter

The filter used in the WIMS system is a consumable, disposable item, and should be replaced at least once per month – more frequently during periods of high white ink consumption.



Disconnect power to the WIMS unit so that the white ink is not circulating.

Carefully disconnect the luer connectors (2 x M lock) at either side of the WIMS filter, and remove the filter.

Replace the filter, taking care that it is placed in the correct orientation for inflow of ink.

4.6.5 Empty & Wash White Ink Container

White Ink, as described previously, is prone to "settling". The stirrer on the WIMS & the circulation pump do much to minimize this sedimentation of the white ink, however there is still likely to be a sedimentation build up in the base of the white ink container over time.

At least monthly, disconnect the power to the WIMS system, clamp the white ink tubes closed (1870 ° 3.6. 5 Initial Ink Fill Process — White "p.50), and empty the white ink container (empty contents back into clean ink supply bottle temporarily). Thoroughly clean & dry the white ink container & the underside & thread of the lid to the white ink container. Re-fill the container, unclamp the white ink tubes & re-connect power to the WIMS unit. Allow the ink to circulate again for ½ hour or so before printing.

4.6.6 Ink Levels

It is recommended that you keep your ink bottles (particularly the white ink) $\frac{1}{2}$ to $\frac{3}{4}$ full at all times. It is important that the white ink system in particular does not suck dry.

4.6.7 Flushing the printer

If the printer is to be left idle for a long period of time (1-2 weeks), then you should flush the system with Cleaning Fluid.

NOTE

No tools are required for this procedure. Use protective gloves to avoid stained fingers. Use recommended cleaning fluid ONLY.

The syringe & tube adapter kit (from maintenance kit), and up to 3 litres of cleaning fluid will be required for this process. Please note, up-to 400ml of ink may be wasted

(1) Discharge ink from ink lines

- 1. Perform CMYK ink discharge operation to discharge ink entirely from the ink paths as described here:
 - Unscrew the white ink container lid and lift the top so that the wims system can return as much as possible of the ink in the white ink lines in the machine
 - Once the white ink return has slowed to a mere dribble power down the machine entirely and unplug from the wall socket.
 - Remove all white and colour ink from the ink containers, use paper towels or cloth around the base of the ink stand in case of ink spillages
 - Thoroughly wash the ink bottles using isopropyl or denatured alcohol (methylated spirits)
 - Empty the waste ink tank
 - Fill the ink containers with denatured alcohol to at least ¾ full
 - Perform 3 x initial ink charges ensuring that the waste ink tank does not overflow
 - Clean down the capping station
 - Clean down the spit tray and honeycomb pad
 - Clean down the wiper blade

- Perform a nozzle check on transparent film and look carefully to see the nozzle pattern is printed in its entirety
- Empty the waste ink tank
- Shut down your printer.



Monitor the level of waste ink in the Waste Ink Container – empty the Waste Ink Container as necessary in accordance with Section 4.4.6 "Emptying the waste ink container" p.101



Monitor the level of cleaning fluid in each of the CMYK and white in containers, top up as necessary.

NOTE

Executing several consecutive Ink Charges may trigger the printer's internal waste ink counter. This is a self-protection mechanism to help remind the user to monitor & empty the waste ink container. If the waste ink counter is triggered during an Ink Charge, it will be evidenced by the printer appearing to "freeze" during the Ink Charge – it will display Charging on the display panel without the printer pump running for 30 seconds or more.

To reset the internal waste counter, it will be necessary to power the printer off (** 2.5.2 "Switching the Printer OFF." p.34) and then restart it in Normal mode (** 2.5.1 "Switching the Printer ON" p.32). If it is necessary to continue the ink charge process, again turn the printer off, and restart it in the Self Diagnosis mode ** 4.5.1.1 "Accessing the Cleaning Menu" p.102

NOTE

Refer to 2.6 "Initial Setup" p.44 for directions and instructions for re-loading inks to the printer.

4.7 Transportation of Printer

This section describes how to transport the printer.

Before transporting the printer, you must package it in the same manner as it was delivered using protective materials and packaging materials so that the printer will not be subject to excessive impact and vibrations during the transportation.

Follow the steps below to package the printer.

(2) Task Before Transportation

- 1. Remove all ink from the system and flush the ink container with cleaning fluid.
- 2. Fill containers with cleaning fluid and do ink purge from diagnostic menu.
- 3. Repeat until all lines are clean and ink free.
- 4. Turn off the printer during ink purge and empty the waste ink container.
- 5. Tape the carriage belt together in the centre with low tack tape.
- 6. Gently push the platen tray fully to the rear of the printer.
- 7. Tape the platen belt together at the front with low tack tape.
- 8. Re-affix the carriage lock bracket.
- 9. Tape the top cover closed with low tack tape.
- 10. Tape the ink containers and waste ink container in place with low tack tape.
- 11. Fit the printer with protective materials and place into container.
- 12. Screw the container lid down.



If the optional stand is used, separate the printer from the stand

(3) Task After Transportation

- 1. Unpack, assemble, and remove all low tack tape and protective materials from the printer.
- 2. Ensure the correct amounts of ink are poured into the bulk ink containers
- 3. Plug the printer power cable in to the mains and turn the printer on.
- 4. Allow the printer to complete ink charge and become ready for operation.
- 5. Perform a standalone nozzle test print onto paper with the printer, do head cleans if needed.
- 6. Install the required printer drivers onto the host PC and connect the printer.
- 7. Confirm the printer and PC are communicating correctly then install the rip software.

5. Troubleshooting

5.1 Introduction

This chapter provides information on possible causes of machine errors/damage and recovery actions.

If the machine is malfunctioning and an error message is displayed on the operation panel, refer to 5.2 "Troubleshooting with Error Messages" p.120. If the machine is malfunctioning but no error messages are displayed, refer to 5.3 "Troubleshooting Without Error Messages" p.134

If cause of errors/damage and recovery actions are not found in this chapter, or the machine cannot restore to normal status, please contact the distributor from whom you purchased the product or our customer support center.

5.2 Troubleshooting with Error Messages

This section describes the messages displayed in normal operation and upon an error occurrence as well as how to correct the error.

The available messages are as follows.

Priority	Message type	Contents	Reference
1	Operation status	Displayed when the machine is operating normally.	"Operation Status" p.121
2	Error with message	Displayed when an abnormal condition occurs during normal operation.	5.2.2 "Errors with Message" p.122
3	Data error	Displayed when a data communication error occurs between PC and the machine.	TF 5.2.3 "Data Errors" p.124
4	Command error	Displayed when an abnormal condition occurs during analysis of PC commands.	"Command Errors" p.125
5	Error requiring reboot	Displayed when a serious error critical to the machine operation occurs.	F 5.2.5 "Errors Requiring Reboot" p.126

TABLE 5-1 ERROR MESSAGE TYPE

5.2.1 Operation Status

This section describes the message contents, check items, and recovery actions for normal operation.

TABLE 5	TABLE 5-2 EVENTS AND CHECK ITEMS FOR OPERATION STATUS MESSAGES					
No.	Message	Event/ Symptom	Check item	Action	Reference	
1	Cover open	Error on panel display, printer will not print.	6. Press the Bed Load Button to bring the printer to a Print Ready State		"Switching the Printer OFF." p.34	
2	Set media	Error on panel display, printer will not print.	7. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the "Switching the Printer ON" p.32	
3	No media	Displayed in the following cases: When media is not seen. When printing finishes in cut media mode	8. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the "Switching the Printer ON" p.32	

5.2.2 Errors with Message

This section describes the contents of errors with messages as well as the check items and recovery actions. These messages are displayed when an abnormal condition occurs while the machine is running.

Upon an occurrence of an error with message, the machine stops its operation at the same time.

In some instances, the error may be cancelled by removing the error causes. After that, the machine will restart its operation.

TABLE	TABLE 5-3 SYMPTOMS AND CHECK ITEMS FOR ERRORS WITH MESSAGE					
No.	Message	Event/ Symptom	Check item	Action	Reference	
1	Media detection error	-	9. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the "Switching the Printer ON" p.32	
2	Media skew error	Media skew error is displayed	Wrong settings in panel control.	Check settings .	"Confirming Default Settings" p.37	
			10. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the "Switching the Printer ON" p.32	
3	Warning: Waste fluid box full	Automatic Waste fluid reset failed.	11. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the "Switching the Printer ON" p.32	

TABLE 5	TABLE 5-3 SYMPTOMS AND CHECK ITEMS FOR ERRORS WITH MESSAGE					
No.	Message	Event/ Symptom	Check item	Action	Reference	
4	[KCMY] Ink Near End [KCMY] Ink End	Ink Count override failed.	12. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 La 2.5.1 "Switching the Printer ON" p.32	
5	Warning: Ink tube life	Ink tube life has almost expired	13. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the 2.5.1 "Switching the Printer ON" p.32	
6	Warning CR motor Life or Warning Pump Life	The life of the CR motor or the Pump is almost expired	14. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 The 2.5.1 "Switching the Printer ON" p.32	

5.2.3 Data Errors

This section describes the message contents of data errors as well as the check items and recovery actions. These errors are displayed when a communication error occurs between the PC and the machine.

Upon an occurrence of a data error, the machine stops its operation at the same time.

In some instances, the error may be cancelled by removing the error causes. After that, the machine will restart its operation.

TABLE !	TABLE 5-4 SYMPTOMS AND CHECK ITEMS FOR DATA ERRORS					
No.	Message	Event/ Symptom	Check item	Action	Reference	
1	l 15-1 error command []	Online frame error	15. Turn machine OFF. Disconnect mains power, wait	If the message appears: Contact your authorized Compress	"Switching the Printer OFF."	
2	I 15-2 error command []	Overrun error	5 minutes. Turn it ON again	Distributor or Technician for further assistance	p.34 "Switching the Printer ON" p.32	
3	I 15-3 error command []	Online parity error	and check if the same message appears.			
4	I 05 error command []	Sum Check error				
5	I 07 error command []	ECS parameter				
6	I 11 error command []	Undefined ESC				
7	I 12 error command []	Unauthorized character ESC				
8	I 13 error command []	Numeral character ESC				
9	I 14 error command []	Parameter error ESC				
10	I 16 error command []	Buffer overflow				

NOTE

The square bracket pair in a message may contain the applicable command code.

5.2.4 Command Errors

This section describes the message contents of command errors as well as the check items and recovery actions.

These errors are displayed when an abnormal condition is found during analysis of PC command data.

Upon an occurrence of a command error, the machine stops its operation at the same time.

The error can be cancelled by removing the error causes. After that, the machine will restart its operation.

TABLE 5	TABLE 5-5 SYMPTOMS AND CHECK ITEMS FOR COMMAND ERRORS					
No.	Message	Event/ Symptom	Check item	Action	Reference	
1	MH 01 Error Command []	Undefined command: Command being analyzed is not defined in applicable command mode.	16. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again. Re-start computer. Re-send print instruction, check	If message appears: Refer to action in check item No. 2	"Switching the Printer OFF." p.34 "Switching the "Switching the Printer ON" p.32	
2	MH 02 Error Command []	Parameter error: Number of parameters following command is inappropriate	if message appears. 17. Confirm USB ports on computer are functioning correctly.	If message appears: Refer to action in check item No. 3 If the message		
3	MH 03 Error Command []	Numeral value error: Number of parameters following command is inappropriate	- 18. Change USB data cable between computer & printer	appears: Contact your authorized Compress Distributor or Technician for further assistance		
4	MH 04 Error Command []	Undefined character set: Unknown character set is present.				
5	MH 07 Error Command []	Buffer overflow: Polygon buffer or downloadable character buffer overflows.				

NOTE

- The square bracket pair in a message may contain the applicable command code.
- For the PC settings, refer to your PC's operation manual.

5.2.5 Errors Requiring Reboot

This section describes the contents of reboot-requiring errors as well as the check items and recovery actions. These errors are issued when any of the following critical problems occurs.

- Obstacle that prevents the machine's operation
- Damage of electric circuits (boards, motors, sensors)
- Abnormal operation of control programs

When any of the above conditions occurs, the machine follows the steps shown below before stopping its operation.

- 2. Turn OFF the driving system power automatically.
- 3. Flash all lamps in the operation panel and generate intermittent audible alarm.
- 4. Display the applicable error message on the LCD.

The error can be cancelled by removing the error causes and restarting the machine.

(1) CPU system serious error

TABLE 5	TABLE 5-6 SYMPTOMS AND CHECK ITEMS FOR CPU SYSTEM SERIOUS ERRORS						
No.	Message	Event/ Symptom	Check item	Action	Reference		
1	E 001 error Opt.DRAM	Optional DRAM error: Abnormal condition in optional memory mounted on main board assembly	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the 2.5.1 "Switching the Printer ON" p.32		

TABLE 5	TABLE 5-6 SYMPTOMS AND CHECK ITEMS FOR CPU SYSTEM SERIOUS ERRORS					
No.	Message	Event/	Check item	Action	Reference	
2	E 016 error CPU Err [00]	Interruption exception error: Abnormal condition in interruption process.	 Check AC power supply and printer surrounding equipment. Turn machine OFF. Disconnect mains 	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 LP 2.5.1 "Switching the	
3	E 016 error CPU Err [02]	Command border exception/TLB exception (load or command fetch) error: Abnormal condition in command border. Or TLB exception in data load or command fetch.	power, wait 5 minutes. Turn it ON again and check if the same message appears.		p.32	
4	E 016 error CPU Err [03]	Data border exception/TLB exception (store) error: Abnormal condition in data border. Or TLB exception in data storing.	2. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 E 2.5.1 "Switching the Printer ON" p.32	
5	E 016 error CPU Err [04]	Address exception error (load or command fetch): Address error in command load or fetch.				
6	E 016 error CPU Err [05]	Address exception error (store): Address error in saving process.				

TABLE 5	TABLE 5-6 SYMPTOMS AND CHECK ITEMS FOR CPU SYSTEM SERIOUS ERRORS					
No.	Message	Event/ Symptom	Check item	Action	Reference	
7	E 016 error CPU Err [06]	Address exception error (command fetch):	Disconnect mains power, wait 5	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 IF 2.5.1 "Switching the Printer ON" p.32	
		Address error in command loading or storing	minutes. Turn it ON again and check if the same message			
8	E 016 error CPU Err [07]	Bus exception error (load or store):	appears.			
		Bus error in command loading or storing				
9	E 016 error CPU Err [08]	System call exception error: Abnormal condition in system call				
10	E 016 error CPU Err [09]	Break point exception error: Abnormal condition in break point				
11	E 016 error CPU Err [10]	Reserved command exception error: Abnormal condition in reserved command				
12	E 016 error CPU Err [11]	Coprocessor disabled exception error: Abnormal condition in coprocessor				

TABLE 5	TABLE 5-6 SYMPTOMS AND CHECK ITEMS FOR CPU SYSTEM SERIOUS ERRORS						
No.	Message	Event/ Symptom	Check item	Action	Reference		
13	E 016 error CPU Err [12]	Arithmetic overflow exception error: Overflow occurs	supply and printer surrounding equipment. 2. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 F 2.5.1 "Switching the Printer ON" p.32		
14	E 016 error CPU Err [13]	Trap exception error: Trap occurs					
15	E 016 error CPU Err [15]	Floating point exception error: Abnormal condition in floating point process					
16	E 016 error CPU Err [22]	Watch exception error: Abnormal condition in watch					
17	E 016 error CPU Err [32]	Watchdog time- out exception error: Time-out in watchdog					
18	E 016 error CPU Err [33]	Abort error: Process aborted					
19	E 097 error NVRAM	Abnormal condition in main board assembly that memorizes product settings.					

NOTE

For the PC settings, refer to your PC's operation manual.

(2) Serious Mechanical Errors

TABLE 5	TABLE 5-7 SYMPTOMS AND CHECK ITEMS FOR SERIOUS MECHANICAL ERRORS						
No.		vent/ Symptom	Check item	Action	Reference		
1	E 065 error X motor	Abnormal condition in PF motor (X-axis) during printer operation. Displayed if the difference between motor command value and feedback from encoder is large.	Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 2.5.1 "Switching the Printer ON" p.32		
2	E 067 error X encoder	Abnormal condition in media feed amount (X-axis) during printer operation. Displayed if there is no feedback from encoder.					
3	time-out	Time-out condition in media feed amount (X-axis) during printer operation. Displayed if pressure roller does not reach the defined position.					

TABLE 5	TABLE 5-7 SYMPTOMS AND CHECK ITEMS FOR SERIOUS MECHANICAL ERRORS					
No.	_	Event/ Symptom	Check item	Action	Reference	
4	E071 error X Over-current	Overload condition in PF motor (X-	2. Turn machine OFF. Disconnect mains power, wait 5 minutes.	If the message appears: Contact your authorized Compress	"Switching the Printer OFF."	
5	E079 error X2 overcurrent	axis) during printer operation.	Turn it ON again and check if the same	Distributor or Technician for further assistance	p.34 12 2.5.1 "Switching the Printer ON"	
6	E 066 error Y motor	Abnormal condition in CR motor (Y- axis) during printer operation. Displayed if the difference between motor command value and feedback from encoder is large.			p.32	
7	E 068 error Y encoder	Abnormal condition in head travel distance (Y-axis) during printer operation. Displayed if there is no feedback				
		from encoder.				

TABLE 5	TABLE 5-7 SYMPTOMS AND CHECK ITEMS FOR SERIOUS MECHANICAL ERRORS						
No.		Event/ Symptom	Check item	Action	Reference		
8	E 070 error Y time-out	Y Time-out condition in head travel distance (Y-axis) during printer operation. Displayed if carriage does	Check if CR Encoder Strip is contaminated or worn out.	If grease or dust collect: Wipe strip with a dry cloth. If ink deposit presents: Wipe it off with cloth dampened with neutral detergent. If contamination or	"Clean the CR Encoder Strip" p.110		
		not reach the defined position.		deposit is too heavy: Replace CR Encoder Strip.			
9	E 072 error Y overcurrent	Overload condition in CR motor (Y- axis) during	3. Turn machine OFF. Disconnect mains power, wait 5 minutes.	If the message appears: Contact your authorized Compress	"Switching the Printer OFF."		
10	E084 error Y2 overcurrent	printer operation.	Turn it ON again and check if the same message appears.	Distributor or Technician for further assistance	p.34 "Switching the Printer ON" p.32		
11	E085 error Head OVP	Abnormal condition in the head	Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	If the message appears: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 Signature 2.5.1 "Switching the Printer ON" p.32		
12	E 073 error Y origin	CR_HP detection is not possible.					
13	E 077 error H overheat	Abnormal condition in head driver.					
14	E 078 error H cable	Abnormal condition in head cable or head thermistor.					

TABLE 5	TABLE 5-7 SYMPTOMS AND CHECK ITEMS FOR SERIOUS MECHANICAL ERRORS						
No.	_	Event/ Symptom	Check item	Action	Reference		
15	E 082 error Pump phase	Abnormal condition in pump phase sensor or Pump	Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same	If the message appears: Contact your authorized Compress Distributor or Technician for	"Switching the Printer OFF." p.34 LE 2.5.1 "Switching the		
16	E086 error H Trans.Th	Abnormal condition in Head transistor.	message appears.	further assistance	Printer ON" p.32		
17	E097 error NVRAM	Abnormal condition in NVRAM.					

5.3 Troubleshooting Without Error Messages

This section describes the symptoms of errors without an error message as well as the check items and recovery actions.

5.3.1 Initial Operation Problems

TABLE !	5-8 CHECK ITEMS AND ACTIONS	FOR INITIAL OPERATION PROBLEM	S	
No.	Symptom	Check Item	Action	Reference
1	Machine power cannot be turned ON	1. Is emergency stop switch engaged?	Disengage the emergency stop switch	"Switching the Printer ON" p.32
		2. Is the power cord connected to the socket at the rear of the printer?	Connect the power cord to the socket at the rear of the printer	"Switching the Printer ON" p.32
		3. Is the power cord connected to the wall socket for mains power? Is the mains power switch at wall socket ON?	Connect the power cord to the wall socket for mains power. Ensure mains power switch is ON.	"Switching the Printer ON" p.32
			Contact your authorized Compress Distributor or Technician for further assistance	
2	Abnormal LCD operation (no displays/garbled characters)	1. Check power supply voltage (AC110VAC or 220VAC depending on country).		
		2. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	 If the display is still abnormal: Contact your authorized Compress Distributor or Technician for further assistance 	"Switching the Printer OFF." p.34 LF 2.5.1 "Switching the Printer ON" p.32
3	Initial ink charge not available	4. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same status.	 Contact your authorized Compress Distributor or Technician for further assistance 	"Switching the Printer OFF." p.34 "Switching the 2.5.1 "Switching the Printer ON" p.32

TABLE	5-8 CHECK ITEMS AND ACTIONS	FOR INITIAL OPERATION PROBLEMS	5	
No.	Symptom	Check Item	Action	Reference
4	Though initial charge has started, ink does not reach head.	Are tube clamps on ink tubes properly released?	Release tube roller clamps from ink tubes	2.6.3 "Primin g the cooling system. Before the LED UV lamps can be operation al you must first prime the entire lamp cooling system. The reservoir for the pump is located in the waste tank bay via the small grey door.

TABLE	5-8 CHECK ITEMS AND ACTIONS	FOR INITIAL OPERATION PROBLEMS	S	
No.	Symptom	Check Item	Action	Reference
				The Pump unit and reservoir are located to the right as shown below
				A Community of the Comm
				Reach in and lift the reservoir bottle from its location, you may need to angle the bottle to aid in the removal. Bring bottle out as shown below.

TABLE	5-8 CHECK ITEMS AND ACTIONS	FOR INITIAL OPERATION PROBLEM	S	
No.	Symptom	Check Item	Action	Reference
				You will notice a green solution in the bottle, this is anti freeze, simply fill the bottle ¾ full with distilled water, reattach the lid and then return bottle to the original location.
				To Prime the LED lamp cooling system;
				9- Release the E stop only, do not power up printer. 10- Raise the
				machine lid. You should see 2x blue LED's illuminate d. 11- Release
				and move carriage

TABLE	5-8 CHECK ITEMS AND ACTIONS	FOR INITIAL OPERATION PROBLEM	S	
No.	Symptom	Check Item	Action	Reference
				away from the capping station as per picture below. At this point you will hear the pump running, this means that the system will be starting to prime, look at the cooling tubes connectin g to the lamps, once the air has been flushed from the tubing, the system is primed, at the same time checking for leaks, allow the pump to continue running for the entire 4 minutes (cooling down period) after

No. Symptom Check Item Action Reference which the pump will automatic ally stop. Tubes should be solid and NO air visible. 12- Check the reservoir bottle and ensure that fluid is visible
pump will automatic ally stop. Tubes should be solid and NO air visible. 12- Check the reservoir bottle and ensure that fluid is visible

TABLE	5-8 CHECK ITEMS AND ACTIONS	FOR INITIAL OPERATION PROBLEM	S	
No.	Symptom	Check Item	Action	Reference
5	Though Ink reaches head, ink is not discharged from head.	1. Is capping position appropriate?	If ink inflow is confirmed, execute initial ink charge.	Initial Ink Fill Process - Colours " p. 46 La 4.5.1 "Powerful Head Cleaning" p.102
6	Ink is not discharged though ink charge is finished.	1. Are damper assembly, ink tube / damper connectors (K, Y, M, C), manifold /tube connectors securely tightened? Is O-ring properly installed?	Check damper and manifold assemblies. If ink inflow is confirmed, execute initial ink charge.	"Powerful Head Cleaning" p.102
		2. Does shield part of damper assembly have air leak?	 Replace damper assembly and check if cleaning operation causes ink inflow. If ink inflow is confirmed, execute initial ink charge. 	"Powerful Head Cleaning" p.102
		3. Is waste ink tube from ink system assembly bent / blocked / kinked	 Check for and release kink / bend in waste tube from ink system assembly (via waste ink compartment) If ink inflow is confirmed, execute initial ink charge 	"Powerful Head Cleaning" p.102
			 Contact your authorized Compress Distributor or 	

TABLE	TABLE 5-8 CHECK ITEMS AND ACTIONS FOR INITIAL OPERATION PROBLEMS				
No.	Symptom	Check Item	Action	Reference	
			Technician for further assistance	е	

TABLE	5-8 CHECK ITEMS AND ACTIONS	FOR INITIAL OPERATION PROBLEM	S	
No.	Symptom	Check Item	Action	Reference
7	Machine makes no operations after turned ON.	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if the same message appears.	 If the message appears: Contact your authorized Compress Distributor or Technician for further assistance 	"Switching the Printer OFF." p.34 "E" 2.5.1 "Switching the Printer ON" p.32
8	After turned ON, machine displays "initializing" and resets itself	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 IF 2.5.1 "Switching the Printer ON" p.32
9	Machine does not perform initialization.	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the "Switching the Printer ON" p.32
10	Machine does not stop.	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the "Switching the Printer ON" p.32
11	Operation panel accepts no inputs	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 LF 2.5.1 "Switching the Printer ON" p.32
12	Machine prints nothing though it receives data	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 LE LE 2.5.1 "Switching the Printer ON" p.32

5.3.3 Printing Problems

TABLE	5-9 SYMPTOMS, CHECK ITEMS A	IND ACTIONS FOR PRINTING PROBLE	MS	
No.	Symptom	Check Item	Action	Reference
1	Media feed after printing is excessive	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	 If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance 	"Switching the Printer OFF." p.34 LET 2.5.1 "Switching the Printer ON" p.32
2	Missing dots in printing.	Perform cleaning twice consecutively.		"Performing a Head Clean from the Operation Panel" p.42
		2. Is ink tube filled with ink?	 Perform initial ink charge. 	"Powerful Head Cleaning" p.102
		3. Perform "Print:Nozzle Check of printer self- diagnosis or "Test Print"	 If the nozzle check patterns are printed correctly, refer to the action in check item No. 4. 	"Performing a Nozzle Check Test Print" p.55
		4.	If the symptom persists: Contact your authorized Compress Distributor or Technician for further assistance	

TABLE	5-9 SYMPTOMS, CHECK ITEMS AI	ND ACTIONS FOR PRINTING PROBLE	EMS	
No.	Symptom	Check Item	Action	Reference
3	Blocked nozzles or ink drops not eliminated even after cleaning	Check cleaning wiper condition	 Clean the cleaning wiper in accordance with Section 4.4.3 "Cleaning the Wiper and Head Cap" p.98. After cleaning the cleaning wiper, perform cleaning twice consecutively. If cleaning wiper is sticky with ink, replace it with a new one 	"Cleaning the Wiper and Head Cap" p.98.
		Is nozzle face wiped/rubbed correctly?	Check wiper installation condition and secure it correctly.	
		3. Does residual ink collect on print head assembly or in nozzles?	Clean head as follows. Clean head Perform initial ink charge Check printouts again	"Performing a Head Clean from the Operation Panel" p.42 "F 4.5.1 "Powerful Head Cleaning" p.102
		4. Is waste ink tube from ink system assembly bent / blocked / kinked	 Check for and release kink / bend in waste tube from ink system assembly (via waste ink compartment) and check if cleaning operation causes ink inflow If ink inflow is confirmed, execute initial ink charge 	"Powerful Head Cleaning" p.102
		5.	If the symptom persists: Contact your authorized Compress Distributor or	

TABLE !	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS					
No.	Symptom	Check Item	Action	Reference		
			Technician for further assistance			

TABLE	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS				
No.	Symptom	Check Item	Action	Reference	
5	No printing Particular color is missing	1. Follow check items and actions for symptom #3 (Blocked nozzles or ink drops not eliminated even after cleaning) above			
		2. Are damper assembly, ink tube / damper connectors (K, Y, M, C), manifold /tube connectors securely tightened? Is O-ring properly installed?	Check damper and manifold assemblies		
		3. Does shield part of damper assembly have air leak?	 Replace damper assembly and check if cleaning operation causes ink inflow. If ink inflow is confirmed, execute initial ink charge. 	"Powerful Head Cleaning" p.102	
		4.	If the symptom persists: Contact your authorized Compress Distributor or Technician for further assistance		

TABLE 5	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS			
No.	Symptom	Check Item	Action	Reference
6	Machine outputs all solid colour printing.	2. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	 If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance 	"Switching the Printer OFF." p.34 "Switching the 2.5.1 "Switching the Printer ON" p.32
7	Blocky printing quality.	1. Is working environment appropriate?	 Use machine under specified environment. 	"Installation
8	Blocky image printing. CR line seems dotted.			Environment Requirements" p.28
9	Missing lines in printed output. (no			
10	printed output. (no missing or ink crooking in step patterns in location 1G-7G in "Test Print")			
		2. Have you started printing immediately after initial charge?	 Printing just after initial charge may cause following symptoms. 	"Performing a Head Clean from the Operation
			Printed line blurs	Panel" p.42
			Missing lines in print In such cases, perform cleaning two or three times and check printout again. If symptoms remain even after cleaning, leave machine unused for 1 hour or more. The perform cleaning again and check printout.	
		3. Check cleaning wiper condition	 Clean the cleaning wiper in accordance with Section 4.4.3 "Cleaning the Wiper and Head Cap" p.98. After cleaning the cleaning wiper, perform cleaning twice consecutively. If cleaning wiper is sticky with ink, replace it with a new one 	"Cleaning the Wiper and Head Cap" p.98.

TABLE	ABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS				
No.	Symptom	Check Item	Action	Reference	
7		4. Is nozzle face wiped/rubbed correctly?	Check wiper installation condition and secure it correctly.		
9					
10					
		5. Is CR encoder strip contaminated?	 If grease or dust collect: Wipe strip with a dry cloth. If ink deposit presents: Wipe it off with cloth 	**LF* 4.5.3 "Clean the CR Encoder Strip" p.110	
			dampened with neutral detergent.		
			 If contamination or deposit is too heavy: Replace CR Encoder Strip. 		
		6. Is waste ink tube from ink system assembly bent / blocked / kinked	Check for and release kink / bend in waste tube from ink system assembly (via waste ink compartment) and check if cleaning operation causes ink inflow	"Powerful Head Cleaning" p.102	
			 If ink inflow is confirmed, execute initial ink charge 		
		7. Does residual ink collect on print head assembly or in nozzles?	 Clean head as follows. Clean head Perform initial ink charge Check printouts again 	"Performing a Head Clean from the Operation Panel" p.42 13 4.5.1 "Powerful Head Cleaning" p.102	
		8.	If the symptom persists: Contact your authorized Compress Distributor or Technician for further assistance		

TABLE 5	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS				
No.	Symptom	Check Item	Action	Reference	
11	Printout borders blur	Does powerful cleaning correct symptom?	Perform powerful cleaning twice consecutively	"Powerful Head Cleaning" p.102	
		2. Is the media height set correctly.	Set the media height	"Checking media height" p.53	
		3.	If the symptom persists: Contact your authorized Compress Distributor or Technician for further assistance		
13	Many satellites (Unnecessary dots)	1. Is working environment appropriate?	Use machine under specified environment.	"Installation	
14	Rough edges on printout			Environment Requirements" p.28	
15	Uneven lines (printed with stains)				
		2. Is CMYK ink pressure sufficient? Is ink pressure alarm sounding?	Ensure all ink bottle lids are secured tightly		
		3. Does powerful cleaning correct symptom?	Perform powerful cleaning twice consecutively	"Powerful Head Cleaning" p.102	
		4. Perform test printing.	If nozzle check patterns are printed correctly, refer to check item 6.	"Performing a Nozzle Check Test Print" p.55	
		5. Have you started printing immediately after initial charge?	Be sure to wait at least 1 hour after initial ink charge. Print before ink charge stabilization will not provide adequate printing quality		

TABLE 5	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS			
No.	Symptom	Check Item	Action	Reference
13 14 15		6. Check cleaning wiper condition	 Clean the cleaning wiper in accordance with Section 4.4.3 "Cleaning the Wiper and Head Cap" p.98. After cleaning the cleaning wiper, perform cleaning twice consecutively. If cleaning wiper is sticky with ink, replace it with a new one 	"Cleaning the Wiper and Head Cap" p.98. "Performing a Head Clean from the Operation Panel" p.42
		7. Is nozzle face wiped/rubbed correctly?	Check wiper installation condition and secure it correctly.	
		8. Is waste ink tube from ink system assembly bent / blocked / kinked	 Check for and release kink / bend in waste tube from ink system assembly (via waste ink compartment) and check if cleaning operation causes ink inflow If ink inflow is confirmed, execute initial ink charge 	"Powerful Head Cleaning" p.102
		9. Does residual ink collect on print head assembly or in nozzles?	 Clean head as follows. Clean head Perform initial ink charge Check printouts again 	"Performing a Head Clean from the Operation Panel" p.42 "F 4.5.1 "Powerful Head Cleaning" p.102
		10.	If the symptom persists: Contact your authorized Compress Distributor or Technician for further assistance	

TABLE 5	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS				
No.	Symptom	Check Item	Action	Reference	
16	Mixed color lines are not overlaid.	1. Are Bi-Directional printing positions aligned correctly?	 Align Bi-Directional printing positions. 	Directional (Bi- D) Adjustment" p.58	
		2. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	 If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance 	"Switching the Printer OFF." p.34 Leta 2.5.1 "Switching the Printer ON" p.32	
17	Black and other colors do not align.	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	• If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 LF 2.5.1 "Switching the Printer ON" p.32	
18	White Ink layer is not "thick" enough				
		Are all white ink nozzles printing?	Perform Nozzle Check Test Print.	"Performing a	
			• Follow check items and actions for symptoms #3, 4 & 5 (Blocked nozzles or ink drops not eliminated even after cleaning & Particular color is missing) above	Nozzle Check Test Print" p.55	
		2. White Ink settings in RIP not set correctly	•	refer to RIP software user guide	
18	White Ink layer is not "thick" enough	3. WIMS filter blocked	● Change WIMS filter.	"Replace WIMS filter" p.115	
19	Poor accuracy of segment length in head travel direct (main scan direction).	4. Is working environment appropriate?	 Use machine under specified environment. 	"Installation Environment Requirements" p.28	

TABLE	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS				
No.	Symptom	Check Item	Action	Reference	
		5. Is CR encoder strip contaminated?	• If grease or dust collect: Wipe strip with a dry cloth.	LF 4.5.3 "Clean the CR Encoder Strip" p.110	
			 If ink deposit presents: Wipe it off with cloth dampened with neutral detergent. 		
			 If contamination or deposit is too heavy: Replace CR Encoder Strip. 		
		2. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	• If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 Solution 2.5.1 "Switching the Printer ON" p.32	
		1. Is working environment appropriate?	Use machine under specified environment.	"Installation Environment Requirements" p.28	

TABLE 5	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS			
No.	Symptom	Check Item	Action	Reference
20	Poor linearity in media feed direction (media splicing accuracy).	Are Bi-Directional printing positions aligned correctly?	 Align Bi-Directional printing positions. 	Directional (Bi- D) Adjustment" p.58
		2. Is CR encoder strip contaminated?	 If grease or dust collect: Wipe strip with a dry cloth. 	4.5.3 "Clean the CR Encoder Strip" p.110
			 If ink deposit presents: Wipe it off with cloth dampened with neutral detergent. 	
			 If contamination or deposit is too heavy: Replace CR Encoder Strip. 	
		3.	 Contact your authorized Compress Distributor or Technician for further assistance 	
21	Images print "out of registration" between white & colour layers	1. Are print settings in the RIP correct?	• Refer to the RIP User Guide for correct settings	
		2.	 Contact your authorized Compress Distributor or Technician for further assistance 	

TABLE 5	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS			
No.	Symptom	Check Item	Action	Reference
22	Nothing happens when you send a print job from the computer	1. Is the printer turned on?	 Disengage the emergency stop switch Connect the power cord to the socket at the rear of the printer and to the wall socket for mains power Ensure mains power switch is ON 	"Switching the Printer ON" p.32
		2. Message or Error on the Control Panel	 Check for message or error display on the control panel. 	
		3. Is the printer connected to the computer via USB cable?	Check USB cable connection	Connecting USB interface cable" p.35
		4. Observe Check Items for Symptom # 23 "USB interface cannot establish communication" below	•	
		5. Error with RIP program	Check error message in RIP, resolve according to RIP User Guide	refer to RIP software user guide / computer user guide
		6. Is printer in Print Ready State?	 Contact your authorized Compress Distributor or Technician for further assistance 	Operations" p. 32
23	USB interface cannot establish communication.	1. Does computer in use support USB?	 Windows 95 does not support USB officially. Recommended operating system Windows XP or higher 	-
		2. Does the same error occur even if you use another USB port on the computer?	Use another USB port on the computer	-

TABLE 5	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS			
No.	Symptom	Check Item	Action	Reference
23	USB interface cannot establish communication.	3. Are you using USB hub?	 Cascade connection using USB hub is available up to 5 stages. If the printer operates normally without the USB hub, replace USB hub. 	-
			 Use USB hubs compliant with USB2.0 Hi-Speed standard. 	
		4. Attempt communication with using another PC on hand.	• Replace USB cable.	-
		5. Does the same error occur even if interface cable is changed?	Communication error may be caused by an open circuit in interface cable or too long cable length. Use cables compliant with USB 2.0 Hi-Speed standard	-
		6. Printer driver may be defective	• Update printer driver	Installing the Printer Driver (for USB connection)" p.76
		7.	 Contact your authorized Compress Distributor or Technician for further assistance 	

TABLE S	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS				
No.	Symptom	Check Item	Action	Reference	
24	Printing position is incorrect	1. Are settings from RIP software correct?	Check RIP software settings	refer to RIP software user guide	
		2. Printer driver may be defective	• Update printer driver	IF 0" Installing the Printer Driver (for USB connection)" p.76	
		3.	 Contact your authorized Compress Distributor or Technician for further assistance 		

TABLE 5	TABLE 5-9 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR PRINTING PROBLEMS			
No.	Symptom	Check Item	Action	Reference
25	Some data are not printed. Some data prints as "garbage"	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	•	"Switching the Printer OFF." p.34 For 2.5.1 "Switching the Printer ON" p.32
		2. Re-start RIP program / computer	•	refer to RIP software user guide / computer user guide
		3. Printer driver may be defective	● Update printer driver	IF 0" Installing the Printer Driver (for USB connection)" p.76
		4. Is CR encoder strip contaminated?	• If grease or dust collect: Wipe strip with a dry cloth.	4.5.3 "Clean the CR Encoder Strip" p.110
			 If ink deposit presents: Wipe it off with cloth dampened with neutral detergent. 	
			 If contamination or deposit is too heavy: Replace CR Encoder Strip. 	
		5. Observe Check Items for symptom #23 (USB interface cannot establish communication) above.	•	
		6.	 Contact your authorized Compress Distributor or Technician for further assistance 	

5.3.4 Noise Problems

TABLE 5-10 SYMPTOMS, CHECK ITEMS AND ACTIONS FOR NOISE PROBLEMS					
No.	Symptom	Check Item	Action	Reference	
1	Abnormal noise in waiting mode	1. Are there any foreign objects or obstacles at noise-generating position?	 Remove obstacles and foreign objects. 	-	
		2. Is abnormal noise heard from within the machine?	Contact your authorized Compress Distributor or Technician for further assistance		
2	Abnormal noise is heard while head is moving laterally.	1.	 Contact your authorized Compress Distributor or Technician for further assistance 		
3	Beeper sound is heard from right side of printer.	1. Is Pressure Status Light red?	 Check CMYK ink bottle lids to ensure they are tight. Check for air leaks or lack of seal in the air lines/ink bottles. 		
		2. Is pressure status light green	 Contact your authorized Compress Distributor or Technician for further assistance 		

5.3.5 Other Problems

TABLE 5-11 SYMPTOMS, CHECK ITEMS AND ACTIONS					
No.	Symptom	Check Item	Action	Reference	
1	Machine hangs up.	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	• If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 "Switching the 2.5.1 "Switching the Printer ON" p.32	
2	Machine power is shut off during printing	1. Turn machine OFF. Disconnect mains power, wait 5 minutes. Turn it ON again and check if symptom is repeated.	• If the symptom is repeated: Contact your authorized Compress Distributor or Technician for further assistance	"Switching the Printer OFF." p.34 LE 2.5.1 "Switching the Printer ON" p.32	
3 Ink spills out of waste fluid container		Has waste fluid container been emptied (daily)	• Empty waste fluid container.	"Emptying the waste ink container" p.101	
		2.	 Contact your authorized Compress Distributor or Technician for further assistance 		
4	Ink spills out of flushing box.	1. Is flushing box clogged with dust / dried ink	Remove dust.Flush flushing box with cleaning solution.	"Cleaning the Flushing Tray" p.97	
		2.	 Contact your authorized Compress Distributor or Technician for further assistance 		
5	Ink spills around carriage rail.	1.	 Contact your authorized Compress Distributor or Technician for further assistance 		

6.Appendix

6.1 Product Specifications

6.1.1 Main Unit Specifications

ltem		Specifications		
Model name		iUV600s	iUV600s-XL	
Printing method		Drop on-demand piezo		
Motor driving met	hod	Firmware servo/DC motor drive		
Media feeding me	thod	Fixed meshed gear and toothed belt		
Media fixing meth	od	ACCULOK platen alignment and anchor system		
Media supply and	Media load	Front left push button for loading		
ejection	Media eject	Front left push button for ejecting		
Media type		Plastics, ceramics, board stock, metals, glass etc		
Maximum loadable	e media length	440 mm / 17.5 inches	885mm / 35 inches	
Maximum loadable media width		600mm / 24 inches	600 mm / 24 inches	
Platen bed height adjustment		285mm (11.2")	I 150mm (5.9")	
			I	

TABLE 6-1 MAIN UNIT SPECIFICATIONS

6.1.2 Print Operation Specifications

Print direction	Bidirectional	Bidirectional	Bidirectional	Bidirectional	Bidirectional
Ink skinning time	<30 sec.	<30 sec.	<30sec.	<30sec.	<30sec.
Platen gap	Auto set	Auto set	Auto set	Auto set	Auto set
Print image					
Wave	optional	optional	optional	optional	optional
Print image size	Max A2	Max A2	Max A2	Max A2	Max A2
Print resolution	-	720 × 720dpi	1440 × 720dpi	720 × 1440dpi	720 × 1440dpi

TABLE 6-2 PRINT OPERATION SPECIFICATIONS

6.1.3 Printer physical specifications

ltem	, ,	Specifications		
CPU		64Bit RISC CPU		
Memory		256MB		
Command		MH-GL, MH-GL2, MH-RTL (RTL-PASS)		
Interface		 USB (USB 1.1/2.0 is supported) Network Interface (10BASE-T/100BASE-TX) 		
Ink supply	White	W W W Tube supply via pump from stirred bulk ink container		
	Colour	C M Y K Tube supply from pressurised bulk ink containers Clear ink optional		
Head life expecta	ncy	2 billion dots per nozzle (discharging ink at an operating temperature of 25°C (77F) with no dust)		
Environmental co	nditions	Temperature	Humidity	
Operation env	ironment	18ºC (64F) to 30ºC (86F)	20% to 80%, with no condensation	
Printing accuracy warranty range		18ºC (64F) to 28ºC (82.4F)	40% to 60%, with no condensation	
Rate of change		2ºC/hour or less	5%/hour or less	
Storage environment	Without ink	-10ºC (14F) to 60ºC (140F)	5% to 85%, with no condensation	
	With ink	18ºC (64F) to 30ºC (86F)	20% to 85%, with no condensation	
Power source	Voltage	AC 90 - 132V or AC 200 – 240V (UV lamps are not variable armust be set to correct voltage supply)		
	Frequency	50Hz/60Hz ±1Hz		
Approximate	During Printing	240W or less		
Power consumption	During standby	80W or less		
Internal Power Supply	Fuse	6.3A, 250VAC, 5mm x 20mm, Type T		
Approximate	Height	1200mm (47.2")		
Outer Dimensions	Width	1210mm (47.6")		
	Depth	1130mm (44.5")		
Approximate	Machine iUV600s	148 kg (326 lb.)		
Weight	iUV600s-XL	168kg (370lb.)		

TABLE 6-3 PRINTER PHYSICAL SPECIFICATIONS

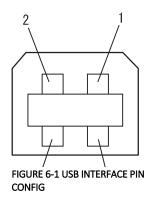
6.2 Interface Specifications

This section explains the specification of the interfaces supported for this printer.

6.2.1 USB Interface Specifications

TABLE 6-4 USB INTERFACE SPECIFICATIONS

Item	Specifications
Interface	Universal Serial Bus Specifications Revision 2.0 Universal Serial Bus Device Class Definition for Plotting Devices Version 1.1
Data format	NRZI
Transmission speed	480Mbps (High Speed Device)
Applicable connector	USB Series B
Allowable cable length	3 meters (9.8 foot) absolute maximum.



Pin number	Signal name	Input/output	Function
1	VCC	-	Cable power supply
2	- Data	Bidirectional	Data
3	+ Data	Bidirectional	Data
4	Ground	-	Cable ground

TABLE 6-5 USB INTERFACE PIN / SIGNAL / FUNCTION

6.2.2 Network Interface Specifications

ltem	Specifications
Network type	Ethernet IEEE802.3
Network I/F	10BASE-T / 100BASE-TX Automatic transfer type (RJ-45 connector twist pair cable) MDI / MDI-X Automatic transfer
Corresponding protocol	TCP/IP

TABLE 6-6 NETWORK INTERFACE SPECIFICATIONS

6.3 Options/Supplies List

6.3.1 Options

Name	Model	Sales units
Vacuum bed with venture ejector	iUV600s and 600s/XL	1 box (includes one unit)
Silicone stick down tacky mat	iUV600s and 600s/XL	1 box (includes one unit)
Rotary device	iUV600s only	1 box (includes one unit)

TABLE 6-7 OTHER OPTIONS



All options and supplies list above and below are designed specifically for Compress iUV600s series printer use.

6.3.2 Supplies

NOTE

For more information about the following items, contact your local dealer:

- Compress P70i ink
- Compress P70i primers
- Compress P70i maintenance solution
- Compress polyester lint free cloths
- Compress cleaning swabs
- Wiper blade
- WIMS filter
- Capping station
- Encoder strip
- Solvent proof print head



Problems with printer operation may occur if cleaning products, media or inks other than those recommended are used with the printer.