

JV300-130/160

INSTALLATION GUIDE

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Issue 2014.04.11 Revised

F/W ver. 1.00 Remark

1. About the Installation Guide

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Outline

This document is a collection of information for service engineers when setting up JV300 inkjet printers. During the setup, proceed with the work by referring to this document and the following related documents.

Documents related to this unit

Documents other than this document which describe the JV300 are listed below. Refer to these as required.

- Operation Manual (included with product)
- Mechanical Drawing

JV300

- Maintenance Manual
- Accessories List

INSTALLATION GUIDE > About the Installation Guide > Description of the Ink Used						
Model	JV300 Is	sue 2014.04.11	Revised	F/W ver. 1.00	Remark	Rev.
1.1 Description of the Ink Used						
	1.1 Des	scriptior	n of the Ir	nk Usec		1.0

■ Outline

Hand the "Material Safety Data Sheet (MSDS)" over to the user who will actually use this unit. Furthermore, explain about the following items with regards to using the product safely.

- Usage environment
- Emergency measures

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■ List of main unit specifications

It	a 112	Specifi	cations	Domontra		
π	em	JV300-130	JV300-160	Kennarks		
Power supply sp	ecifications	AC100 - 120V / 220 - 240V ±10% x				
Power consumption	tion	1440Wx2	Main unit			
	Usable temperature	20°C to 30°C				
	Relative humidity	35 to 65% Rh (no condensation)				
Installation environment	Precision guaranteed temperature	20°C to 25°C		In environments outside of the range shown on the left, the ink ejection stability may deteriorate		
	Temperature gradient	$\pm 10^{\circ}$ C/h or less				
	Dust	Office equivalent				
Weight	Main unit	170 kg	200 kg			
External dimens (W) x (D) x (H)	ions	2,525 x 700 x 1,392 mm	2,775 x 700 (900) x 1,392 mm "()" is with the AMF.			

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Issue 2014.04.11 Revised JV300 **Printer Assembly** 4.



■ List of work procedures

	Work operation	Description	Refer to
□1	Unpacking	Unpack the product.	4.1 (p.2)
□2	Assembling the leg with the main body	Assemble the leg with the main body.	4.2 (p.3)
□3	Mounting the Accessories	Carry out the work to attach the accessories.	4.3 (p.11)
□4	Removing the Stopper	Remove the stopper.	4.4 (p.13)
□5	Storage of packing components	For the storage, put the packing components away.	4.5 (p.14)
□6	Mounting of tension bar unit	Mount the tension bar unit (option).	4.6 (p.16)

■ In order to prevent accidental cuts, always wear gloves when performing disassembly and assembly work. When carrying out the work, ensure that there is sufficient surrounding space, and install in a stable Caution

location.

■ This product is extremely heavy. Take great care when handling the product.

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INSTA	LLATION G	UIDE >	Printer Asse	mbly > I	Unpacking					Pov
Model	JV300	Issue	2014.04.11	Revised	2014.05.08	F/W ver.	1.00	Remark		Rev.
	4.1 U	npa	cking							1.1

Work procedures



- 1. Remove the **lid** and **sleeve** of the box packing the main unit, cut the tapes stuck on 4 corners of the **main unit tray**.
- 2. Take out each packing box.



Because of the small clearance between the main unit and sleeve, lift the sleeve up vertically to avoid touching the main unit.

3. Remove the leg stay packing assy.



Do not dispose the metal sheet for packing and the rubber feet since these will be stored by attaching to the main unit after the installation of machine. 1



4.2 Assembling the Stands and the Device



- 4. Remove the guide caps.
- 5. Put the **roll holders** on the roll guide, and tighten the **roll holder fixing screws**.
- 6. Put the **take-up device units** on the roll guide, and tighten the **take-up device unit fixing screws**.

7. Fit the **guide caps** on both sides of the roll holder assy and the take-up device assy, then temporarily tighten them with the 4 hexagon socket head screws (SSWP4x4(R)) (such that the screw touches the roll guide).



■ Use the provided hexagonal wrench (size 2).

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INSTALLATION GUIDE > Printer Assembly > Assembling the Stands and the Device Model JV300 Issue 2014.04.11 Revised 2014.05.08 F/W ver. 1.00 Remark

4.2 Assembling the Stands and the Device



8. While pressing the **roll holder assy** and the **take-up device assy** towards the leg stay, affix the **roll guide BKT**.



9. Tighten the 4 hexagon socket head screws (SSWP4x4(R)) that were temporarily tightened on the step 7. (Tighten the screw 90° angle once it hits the roll guide.)



10. Lock the four stoppers of the stand.



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4.2 Assembling the Stands and the Device



Model



11. Remove screws of the Stay 1 of both sides of the Main unit.

The Main unit is fixed to the pallet. Release the Main unit by removing the screw.



■ Use the provided hexagonal wrench (size 6).

12. Using the 8 screws (CS6x55 Black), attach the **Stay 2** to the Stay 1.

13. Hold the handles of the plotter by four people.

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4.2 Assembling the Stands and the Device

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Model

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14. Put the front face of the stand first.

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Align the screw hole of the stand and that of the main unit.

15. Fix the main unit and legs with the 8 screws (M5x15).Use the provided hexagonal wrench.

If the screw holes of the main unit and of the stand do not fit, follow the steps below.

- 1. Loosen the 4 screws (M5x15) of the upper stand stay on the back of the main unit, turning one-half with the supplied hexagonal wrench.
 - IMPORTANT
- Be sure to turn "one-half" to loosen the screw.Do not loosen the screw of the lower stand stay on the front of the main unit.
- 2. Fitting the screw holes of the main unit and the stand, temporarily tighten the 8 screws (M5x15).
- 3. Fully tighten the screws that were loosened on the step (1).



• Hold down the stand stay and tighten the screw.

4. Fully tighten the screws that were temporarily tightened on the step (2).

If the screw h follow the step 1. Loosen the back of the howegenely



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4.2 Assembling the Stands and the Device



Model







16. Paste the roll holder position label.

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17. Move roll holder to the center of the unit.

- 18. Check clamp lever is lowered.When clamp lever is lifted, push it down.
- 19. Move roll holder to the roll setting position.



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4.2 Assembling the Stands and the Device



20. Check the position of roll stopper arm.



- 21. Insert the cable of the take-up device into the connector on the bottom surface of electric unit.
- 22. Using the screw (M5x15), connect the ground line to the right leg of the take-up device unit.

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4.2 Assembling the Stands and the Device



23. Fix the cable of the take-up device unit with the cable clamps (x2).

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	4.3 M	our	nting t	he /	Acces	sori	es			1.1

Work procedures





1. If the installation location is decided, lift up the main unit by the stay, and put the **lift-up block**.



- 2. Remove the three screws each from the right and leftsides and detach the Stay 1.
- 3. Disassemble the stay.
- 4. Fix the **stay 2** to the screws (M5x15) being used on the stay.





- After fixing the stay 2, fasten the screws which are fastened temporarily in the procedure 2 of [4.2 Assembling the Stands and the Device -P.3].
 Tightening
- 5. Fix the **tank tray** to the right leg with the 2 screws (M5x15).

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INSTA	LLATION GL	JIDE >	Printer Asser	nbly > Mounting	the Access	ories		Roy
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	4.3 M	our	nting t	he Acce	ssori	es		1.0



Hole Hole Angular waste ink tank 6. Attach the **tank trim plate** to the right leg with the 2 screws (M5x15).

7. Attach the angular waste ink tank.

Insert the angular waste ink tank.



8. Close the tank stopper.

Put a hook of the tank stopper in a hole of the printer then lock it.

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INSTA	LLATION GL	JIDE >	Printer Asser	mbly > I	Removing the	e Stopp	er			Pov
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	4.4 R	emo	oving	the	Stopp	er			1	1.0

Work procedures



1. Open Front cover, remove the 2 screws (P3x8SMW), and remove **head stopper**.



■ Work procedures



Stay 1

1. Attach the **metal sheet for packing** and the **rubber feet** on the back surface of main unit with the screws (P4x20 SMW x 4).

2. Attach the **stay 1** on the back surface of main unit with the screws (CS6x20 SMW x 6).









3. Using the screws (CS6x55 black x4), attach the extra **stay 2** to the stay 1.

4. Attach the **head stopper** to the stay 1 with the screws (P3x8 SMW x 2).

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4.6 Check and cleaning the LM guide

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Work procedures





1. Using manual operation, move the carriage back and forth along its full travel distance several times.

2. Visually check the LM guide left/right ends and the LM guide block unit for formation of grease droplets, and wipe away any grease droplets.



The grease is applied for the purposes of corrosion prevention and lubrication, so do not remove any more than necessary, and do not use alcohol or similar.



Outline

For JV300, the above ink setting is available.

Although it has been set to 4 colors at the factory-shipping, by opening / closing of the joint, it is changeable to other colors.

The procedure to change the ink is described in the following.

List of work procedures

	Work operation	Description	Refer to
□1	Changing of Joint	Confirm the above ink paths, and change the joint concerned.	5.1 (p.2)
□2	Adjustments When Using Sublimation Transfer Ink		5.2 (p.8)

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5.1 Changing the Joints





Joint change procedure

Work procedures



1. Remove **cartridge rear cover** from the back panel of the main unit.



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Changing the Joints 5.1

Cap-outer



2. Release the knob of fitting φ 2, and remove the **fitting assy for** UISS.



■ Pay attention not to lose the F seal rubber 300.

3. Attach the F seal rubber 300 removed in the procedure 2 and the new Fitting to the 3-ways fitting.



- Attach it so that the step of F seal rubber 300 is at the side of the 3-ways fitting.
- Be sure not to insert the fitting obliquely.
- Be sure to confirm that the hook of the fitting is hanging on the 3-way fitting.
- 4. Attach the Cap-outer to the Fitting.
- 5. Return the cartridge rear cover to the original location, and affix using the screws.

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5.1 Changing the Joints

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Joint change procedure at the circulation path

Work procedures



1. Loosen the screw of **cover fulcrum pin BKT** which is at the left side of front panel cover M.

2. Shift the cover fulcrum pin BKT to right, and remove the **front panel cover M**.

3. Remove the **front cover**.

4. Remove the **carriage cover**.

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5.1 Changing the Joints



5. Connect the circulation path of the **white ink** of the carriage side.



- For the connection of the circulation route, refer to the following.
 - Dotted line in orange : Connect to 1-7 and 2-7.
 - Solid line in orange : Connect to 1-8 and 2-8.



[300 model]

TANT	1-2	1-5	1-7	1-8				
	1-1	1-3	1-4	1-6	2-2	2-5	2-7	2-8
	×	×	×	×	2-1	2-3	2-4	2-6
	×	×	×	×	×	×	×	×
		Not inse	erted		×	×	×	×

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JV300 Issue 2014.04.11 Revised 5.1 Changing the Joints









6. Remove **cartridge rear cover** from the back panel of the main unit.

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- 7. Release the knob of fitting φ 2, and remove the **fitting assy for UISS**.
 - Pay attention not to lose the F seal rubber 300.

8. Attach the **F seal rubber 300** removed in the procedure 6 and the new **Fitting** to the 3-ways fitting.



Attach it so that the step of F seal rubber 300 is at the side of the 3-ways fitting.

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5.1 Changing the Joints



9. Reconnect the ink route of the white ink on the circulation pump side.



The cartridge of white ink is at the 2nd and 4th from the right viewing from the back of machine.

10. Put back Removed covers at the original positions.

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5.2 Adjustments When Using Sublimation Transfer Ink

When using sublimation transfer ink (water ink), perform the following adjustments to avoid media cockling.

Adjustment of the Station Height

■ Work procedures



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Model

5.2 Adjustments When Using Sublimation Transfer Ink



10. Pull out the CPL angle spacer 2.

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- 11. Insert the CPL angle spacer 2 pulled out under the CA left base.
- 12. Tighten the four screws loosened in the Step 6.

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5.2 Adjustments When Using Sublimation Transfer Ink

Head Height Adjustment

Before performing this work, check the items below:

- The clamp lever is at the lower position.
- The head gap is 2mm (the head height lever is at the lower position).

Work procedures



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Model

5.2 Adjustments When Using Sublimation Transfer Ink



8. Remove the **carriage height adjustment plate**, and attach it to the **P-head up and down slider**.



- At shipping, the height adjustment spacers (3 types) are not inserted.
- The number of spacers used is different depending on the media used by a user.

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Be sure to match the carriage height-adjustment plate to the number of sheets of the spacers which are inserted at the station.

Media thickness	Number of Spacers used
At shipping	0
3 mm ~ 4 mm	1
4 mm ~ 5 mm	2

9. Tighten the **head lock screw** with a standard screw drive or a coin.





INSTA	LLATION GL	JIDE >	Power Suppl	y Relate	ed				ſ	Pov
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	6. P	owe	er Sup	ply	Relate	ed			1	1.0

6. Power Supply Related

■ List of work procedures

	Work operation	Description	Refer to
□1	Setting the Voltage Selector	Set the voltage selector	6.1 (p.2)
□2	Connecting the Power Cable	Connect the power supply cable	6.2 (p.3)
□3	Turning the Power On	Turn on the power supply	6.3 (p.4)
□4	Turning the Power Off	Turn off the power supply	6.4 (p.5)

2 3 4

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INSTA	LLATION G	UIDE >	Power Supp	ly Related > S	etting the Voltage Selector	Pov
Model	JV300	Issue	2014.04.11	Revised	F/W ver. 1.00 Remark	Rev.
	6.1 S	Setti	ng the	Voltag	e Selector	1.0

Outline

The device voltage should be switched to 100 to 120V or 200 to 240V to match the power supply voltage.



Because the device may be damaged by an incorrect setting, do not change the setting after installation.



1. Switch the voltage selector switch to the side for the voltage you are using.



■ 220V at shipping.

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INSTALL	ATION GU	IDE > F	Power Suppl	/ Relate	ed > Conne	ecting the	e Powe	r Cable	9	Pov	l
Model	JV300	Issue	2014.04.11	Revised	2014.05.08	B F/W ver.	1.00	Remark	C	IXEV.	l
6	5.2 Co	onn	ecting	j the	e Pov	ver (Cab	le		1.1	
Outlin	1e										

This device connects to the included power cable. If you do not use the included power cables, use cable that match your region. Connect the power cables into a power outlet with the following specifications.

Voltage	AC100 - 120V / 220 - 240V
Frequency	50/60Hz
Capacity	AC100 - 120V: 1440W AC220 - 240V: 1920W

- Always connect the cables to a power outlet near the device so that the cables can be easily removed.
 When plugging the cables into the power outlets, connect the cable into outlets on a separate circuit from other devices. Because of the large power consumption, the power supply breaker may be tripped.
 - Power supply cables should be connected to an earthed outlet. Otherwise, there is a risk of electrical shock or of damaging the device.
 - When connecting the power cables, ensure that the power switch of the device is off.



- Insert the power cable clamp into the power supply box.
 300 model : Power cable x 2
- 2. Insert the **power cable** into the inlet of this device.
- 3. Lock the power cable.

Run the power cable through the clamp, and lock the clamp until it clicks.

4. Insert the **power plug** into a plug socket.

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INSTA	LLATION GU	JIDE >	Power Suppl	y Relat	ed > Turning	the Pov	wer On			Pov
Model	JV300	Issue	2014.04.11	Revised	2014.05.08	F/W ver.	1.00	Remark		Nev.
	6.3 T	urni	ng the	e Po	ower C)n				1.1



)

Turn on the main power supplies of this device.
 When pushing the power switch, which is on the side of this machine, to the " | " side, the main power will be on.

- 2. Turn the power on, by pressing the [END/POWER] key.
- 3. When the power is turned on, the firmware version is displayed.

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INSTALLA	TION GUID	E > Power Supp	ly Related > Turr	ing the Po	wer Of	f		Po
Model J	V300 Is	2014.04.11	Revised 2014.05	.08 F/W ver.	1.00	Remark		Re
6.	4 Tur	ning th	e Power	Off				1.
Outline								
When tu Furtherr	rning the p nore, check	ower off, check that the head is	that the unit is no in the capping st	ot receivin ation.	g data,	and there is no	o remaining un-ou	ıtput data.
IMPORTANT	■ If you to the If the the he	turned the pow capping station power is turned ad for a long tin	er off without per to prevent the he off during plottin ne without cappin	forming c ad from d ng, the hea ng may cau	apping rying o id migh use noz	, turn the powe ut. nt not be parke zzle blockages	er back on again. I d in the capping s	Return the head tation. Leaving
	Do no block	ages from funct	ain power switch ioning.	on the sic	ie, as ti	his will stop th	ne function for pre	eventing nozzle



- 1. Turn the power off, by giving the [END/POWER] key a long press.
- 2. The confirmation screen of power OFF is displayed.

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■ List of work procedures

	Work operation	Description	Refer to
□1	Initial Ink Fill	Execute the initial ink fill	7.1 (p.2)
□2	Test Print	Check that there are no plotting problems, such as missing nozzles or bent paths	7.2 (p.8)
□3	Cleaning the Heads	Carry out if a drawing failure occurs in the test print.	7.3 (p.10)
□4	Dot Position Adjustment (Service mode)	Execute dot position adjustment if misalignments occur during bidirectional plotting	7.4 (p.11)
□5	Dot Position Adjustment (User menu)	Execute dot position adjustment if misalignments occur during bidirectional plotting	7.5 (p.14)



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7.1 Performing the Initial Ink Fill	1.2

Caution

The machine can not recognize if the filling fluid cartridge has been set or removed. Be sure to check the condition before performing each operation.



Set a cartridge of the filling fluid or the ink according to the displayed. Set the cartridges in the order correctly.

Be sure to use a new cartridge or one with at least half the ink remaining.

■ Working procedure 1 (Ink set selection)



LUCAL		
Boot(logo)	
MENU	TEST PRINT/ CLEANING	REMOTE
LOCAL		
version	TEST PRINT/	DEMOTE
MENU	CLEANING	REMOLE
	CLEANING	REMOTE
LOCAL	CLEANING	

1. Dip the clean stick into the washing solution, and moisten the edges of cap.

2. Turn the power to the device on.

When the power is turned on, the firmware version is displayed.



• Ensure the front cover is closed.

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Issue2014.04.11Revised2014.05.08FW ver.1.00Remark7.1Performing the Initial Ink Fill			
-	3. Select the ink type.		
Select INK SET	AQUA: Aqueous ink (sb53, etc.)		
AQUA SOLVENT	SOLVENT: Solvent ink (SS21, etc.)		
	4. Press the [ENTER] key.		

6. Press the [ENTER] key.

■ Ink set can be select at installation or at performing head cleaning (the user cannot replace it).

■ When you change the ink set, change the joint of the ink path. (5.1 (p.2))

Working	procedure 2	Filling	fluid	discharging)
working	procedure 2	(rinnig	nunu	uischarging)

REMOTE

4 color 6+W color

8color

MENU

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TEST PRINT/ CLEANING



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INSTALLATION GUIDE > Outputting Plots > Per	forming the Initial Ink Fill	Rev.
7 1 Dorforming the		1 2
7.1 Performing the		Ι.Ζ
• Working procedure 3 (Filling fluid filling)		
	INC I IOUD" when some calcaded "COLVENT" for the inletere	
If you selected "AQUA", proc	ered to step 14.	
IMPORTANT		┌
Fill up FILLING LIQUID	10. Set the filling fluid cartridge, and press [ENTER].	_ 1
Set cartridges	The next operation is not started automatical	lly
	Carry out the next operation after confirming th	nat
	the cartridge has been surely set.	
		<u> </u>
	11. Press [ENTER], and start the filling of filling fluid.	
Start		
		3
•		
Fill up FILLING LIQUID		
Please Waint		4
Discharge FILLING LIQUID	12. Remove the filling fluid cartridge, and then press [ENTER].	5
Remove Cartridges		<u> </u>
	• The next operation is not started automatical even when the filling fluid cartridge is removed	11y 1
	Carry out the next operation after confirming the	nat
	the cartridge has been surely removed.	_ 6
Start	13. Press [ENTER], and start the discharging of filling fluid.	
		7
★		
Discharge FILLING LIQUID		
Please Waint		
↓ ↓		

	7.1	Performing	the	Initial	Ink	Fill	
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INSTALLATION GUIDE > Outputting Plots > Performing the Initial Ink Fill

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R	ev.
1	.2

Fill up MAINT.LIQU EXECUTE CANCEL	IID	A confirmation screen is displayed only when [AQUA] is selected for ink type.
*		
	Maintenanc	e washing cartridge

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- 14. Select whether or not to fill up the maintenance liquid. (Displayed only when [AQUA] is selected for ink type) If you selected cancel, proceed to Step 18.
- 15. Set the removed filling maintenance washing cartridge to the washing cartridge of the right side of main unit.

16. Press the [ENTER] key, and start fill up the rout of the maintenance washing liquid.

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Model JV300 Issue 2014.04.11 Revise	ed 2014.06.19 FW ver. 1.00 Remark Remark
7.1 Performing th	ne Initial Ink Fill 1.
■ Working procedure 4 (Ink filling)	<text><text><text><text><text><text></text></text></text></text></text></text>
LOCAL	
MENU TEST PRINT/ CLEANING REMOTE If the ink filling could no following [Cleaning] or [In] When you performed [5.2 below after ink filling has b MAINTENANCE MANUA	t be performed normally by the operation described above, execute the k filling (Maintenance)]. Adjustments When Using Sublimation Transfer Ink -P.8], adjust the head been completed. AL 4.2.1 SLANT ADJUST 4.2.2 STAGGER ADJUST

INSTALLATION GUIDE > Outputting Plots > Performing the Initial Ink Fill					
Model JV300 Issue 2014.04.11 Revised F/W ver. 1.00 Remark					
7.1 Performing the Initial Ink Fill					

Outline of Cleaning

When nozzle missing is many Hard	When nozzle missing is less	Normal
	When nozzle missing is many	Hard

IMPORTANT

■ For the working procedures, refer to [7.3 Cleaning the Heads].

Outline of Ink filling (Maintenance)

Carry out by selecting the corresponding color if it could not be recovered by the cleaning.

When nozzle missing is less	Soft
When nozzle missing is many	Normal

Working procedure



1. Select [FILL UP INK].

2. Select the nozzle having the nozzle missing.

3. Press the [ENTER] key.

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INSTALLATION GUIDE > Outputting Plots > Performing a Test Print						Roy	
Model JV300 Issue 2014.04.11 Revised F/W ver. 1.00 Remark						Rev.	
7.2 Performing a Test Print							1.0

Outline

Perform a test print to check that there are no ejection problems (smears or gaps) such as blocked nozzles.

If you are using loose-leaf media, load media with a size larger than A4 size portrait.
 If you are using roll media, wind back the roll media by hand to remove any slack before beginning printing. Otherwise, this could cause poor printing quality.

	Is media loaded (Operation Manual)
Items to check before the test print	Is the origin point set
	Is the head cap adjusted (Operation Manual)

Work procedures

			1 Press the IFUNC21 key in local mode	
LOCAL]		
	1590mm			
Heater/// Ink///				
MENU	TEST PRINT/ CLEANING REMOTE			
+				
			2	

TEST PR CLEANIN STATION	INT G MAINTENANCE	> > >	
•			
TEST PR	INT		
SCAN DI	R.	>	
	ς.	1	
•			
TEST PR	INT		
TEST PR PRINTING Prease W	INT G		
TEST PR PRINTING Prease W	INT G ait		
TEST PR PRINTING Prease W	INT G ait		
▼ TEST PR PRINTING Prease W	INT G ait		

- 2. Press the [▼] key then the [ENTER] key. The test print begins.
 - When the printing finishes, the printer returns to local.

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3. Check the results of the test print.

If the result is normal, the operation is finished.

If the result is abnormal, execute head cleaning (7.3 (p.10)) or ink filling (Operation Manual).



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Model	JV300	Issue	2014.04.11	Revised		F/W ver.	1.00	Remark	
	7.3 C	lear	ning th	ne H	leads				

Outline

There are three kinds of head cleaning. The type to use depends on the results of the test plot (7.2 (p.8)).

Normal	When there are gaps in lines
Soft	When you only want to execute a head wipe (when lines are bent)
Hard	When the print quality does not improve even after performing normal cleaning

Work procedures



Execute the following settings after performing head cleaning.

- Feed Correction (Operation Manual)
- Dot position adjustment (7.4 (p.11)), (7.5 (p.14))

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7.4 Dot Position Adjustment (Service mode)

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Outline

Draw the built-in patterns, and compensate the parameter so that the drop positions of other heads are on the same line as the drop position of reference head (Head 1A) in the Y-direction. To each of the discharged waveforms, execute [SiDir], [ReDir] and [BiDir] in each resolution. Perform adjustment in accordance with the following chart. WF4(Large droplet waveform)

		Y-resolution								
	360		540			720			1440	
	BiDir	SiDir	ReDir	BiDir	SiDir	ReDir	BiDir	SiDir	ReDir	BiDir
Std	0 ^{*1}	Δ	Δ	Δ	Х	Х	Х	Х	Х	Х
Hi	Х	0	0	0	0	0	Х	Х	Х	Х

*1: The adjustment value for WF4/720dpi Hi is reflected in the WF4/360dpi Std single and reverse direction adjustment values (excluding bidirectional).

WF3(Small droplet waveform)

		Y-resolution								
	360		540			720			1440	
	BiDir	SiDir	ReDir	BiDir	SiDir	ReDir	BiDir	SiDir	ReDir	BiDir
Std	0	Δ	Δ	Δ	0	0	Δ	\triangle	\triangle	\triangle
Hi	Х	0	0	0	0	0	0	X*2	X*2	0

*2: The adjustment value for WF3/720dpi Std is reflected in the WF3/1440dpi Hi single and reverse direction adjustment values (excluding bidirectional).

Work Procedures



■ Forward adjustment



7. Display [#ADJUST] -> [PRINT ADJUST].

- 8. Select the waveform.
 - $[\bullet] / [\bullet]$: Switches [ENTER] : Confirms (Next)
- 9. Select the Y-resolution and scanning speed.
 - $[\bullet] / [\bullet]$: Y-resolution & Scanning speed change [ENTER] : Confirms (Next)

10. Select "SiDir" on the [SELECT] display. $[\bullet] / [\bullet]$: Switches [ENTER] : Confirms (Next)

- 11. Press the [ENTER] key to draw the pattern.
 - [ENTER] : To start Pattern drawing
 - [] : To the compensation display (Without drawing)

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7.4 Dot Position Adjustment (Service mode)



Return adjustment

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Going and returning adjustment



12. Check and compensate the patterns.

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Input the adjustment value (the measured value: µm) so that the impact dots of the H2A line is at the same position in the Ydirection, referring to the reference nozzle H1A line.

 $[\bullet] / [\bullet]$: Compensating value input (Input unit: 20 µm) [ENTER] : Confirms (Next)

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Input the compensating value, referring to the left figure, if the displacement on the drop position of head applied for the compensation occurs either right or left against the reference head.

13. When compensated, draw and check the patterns again.



Repeat "Drawing -> Checking (Compensating)" until any compensation is not required.

14. On the [SELECT] display, select "ReDir", and adjust it in the same way as "SiDir".

 $[\bullet] / [\bullet]$: Switches [ENTER] : Confirms (Next)

15. Press the [ENTER] key to draw the pattern.

[ENTER]: To start Pattern drawing

[•] : To the compensation display (Without drawing)

16. When compensated, draw and check the patterns again.



Repeat "Drawing -> Checking (Compensating)" until any compensation is not required.

- 17. Select "BiDir" on the [SELECT] display. $[\blacktriangle] / [\blacktriangledown]$: Switches [ENTER] : Confirms (Next)
- 18. Press the [ENTER] key to draw the pattern.
 - [ENTER] : To start Pattern drawing
 - [] : To the compensation display (Without drawing)



19. Check and compensate the patterns.

The reference lines are drawn in going, and then the adjustment lines are drawn at the same Y-coordinate positions in returning. The position where the lines above are overlapped on one vertical line is specified as the correct dot position (H1A: Mcolor fixed)

Confirm that the dots are on the same line.

* The adjusting procedure is the same although the drawing pattern is different depending on mode.

[▲]/[▼]: Compensating value input (Measured value) [ENTER]: Confirms

If the displacement is significantly different in the right and left, other reasons are considered.

20. When compensated, draw and check the patterns again.

IMPORTANT

Repeat "Drawing -> Checking (Compensating)" until any compensation is not required.

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7.5 Dot Position Adjustment (User menu)

DROP.POScorrect	
PATTERN1 PATTERN2	0
PATTERN3	0
PATTERN4	0
<u> </u>) <u>.0 ~ 40.0</u>

9. Correct the dot positions for pattern 2 onwards in the same way as Step 6, then press the [ENTER] key.

IPORTANT	Print patterns 1 chart.	to 8. Each	matches th	ne followii
	No.	Waveform	Y-resolution	Speed
	PATTERN1	WF4	360	Std
	PATTERN2	WF4	540	Std
	PATTERN3	WF3	540	Hi
	PATTERN4	WF3	540	Std
	PATTERN5	WF3	540	Hi
	PATTERN6	WF3	720	Std
	PATTERN7	WF3	720	Hi
	PATTERN8	WF3	1440	Hi

10. Press the [END] key several times to finish.

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