Mimaki[™]



JV400-130LX / 160LX

INSTALLATION GUIDE

Service Documents > Change Tracking

Change Tracking

| Date | 2013.04.30 | Manual Ver. | | 2.2 | Remark | | |
|---------|-----------------|-------------|--|-----|--------|---------|--|
| Status | Index | Rev. | | | | Changes | |
| Revised | 5.1-P.1 -P.2 | 1.5 | Illustrations of jointing are changed. | | | | |
| Revised | 5.1-P.5 | 1.1 | Work procedure for W ink using is changed. | | | | |

| Date | 2013.10.10 | Manu | al Ver. 2.1 | | Remark | | | | |
|---------|------------|------------|---|-------------------|----------|--|--|--|--|
| Status | Index | Rev. | Changes | | | | | | |
| Revised | 2 | 1.3 | Weight is a | changed | | | | | |
| Revised | 4.2 | 1.1 1.2 | Screw type is changed. | | | | | | |
| Revised | 4.3 | 1.3 | Screw type is changed. | | | | | | |
| Revised | 4.4 | 1.3 | Screw type | e is chan | nged | | | | |
| Added | 5 | 1.3 | 6 color is a | idded. | | | | | |
| Added | 5.1 | 1.4 | 6 color is a | 6 color is added. | | | | | |
| Revised | 7.3 | 1.5 | Work procedure is changed.Important is added. | | | | | | |
| Revised | 7.6 | 1.2 | Work proc | edure is | changed. | | | | |

| Date | 2013.04.15 | Manu | al Ver. | 2.0 | Remark | | | | | |
|---------|-------------------------------|------|---|------------------------|------------|------------------------|--|--|--|--|
| Status | Index | Rev. | Changes | | | | | | | |
| Revised | 3 | 1.2 | Illustration is changed in accordance with heater change. | | | | | | | |
| Revised | 4 | 1.2 | Illustration is changed in accordance with heater change. | | | | | | | |
| Revised | 4.2-P.6 4.2-P.7 4.2-P.9 | 1.1 | Drying heater is changed and Finger guard is added. | | | | | | | |
| Revised | 4.3 | 1.2 | Work procedure is changed in accordance with heater change. | | | | | | | |
| Revised | 4.4 | 1.2 | Drying heater is changed and Finger guard is added. | | | | | | | |
| Revised | 4.5 | 1.2 | Finger gua | Finger guard is added. | | | | | | |
| Added | 4.6 | 1.0 | New page | is addeo | 1. | | | | | |
| Added | 5 | 1.2 | 6 color is a | added. | | | | | | |
| Added | 5.1 | 1.3 | 6 color is a | added. | | | | | | |
| Added | 5.2 | 1.3 | 6 color is a | added. | | | | | | |
| Revised | 6.1 | 1.2 | Drying hea | ater is cl | hanged and | Finger guard is added. | | | | |
| Revised | 7.3 | 1.4 | Ink set is c | hanged | | | | | | |
| Revised | 7.6 | 1.1 | Work proc | edure is | changed. | | | | | |

| Date | 2013.01.20 | Manu | Manual Ver. | | Remark | | | |
|---------|------------|------|---|--|---------|--|--|--|
| Status | Index | Rev. | | | Changes | | | |
| Revised | 2 | 1.1 | Specification for power supply is changed. | | | | | |
| Revised | 4 | 1.1 | Caution for environmental of installation is added. | | | | | |
| Revised | 6.2 | 1.1 | Caution is added. | | | | | |

Service Documents > Change Tracking

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| Date | 2012.10.15 | Manu | al Ver. | 1.7 | Remark | | | |
|---------|-------------------------------|-------------------|------------------------------|----------|---------------|-------------------------------|--|--|
| Status | Index | Rev. | | | | Changes | | |
| Revised | 4.5-P.14 | 1.1 | The illustration is changed. | | | | | |
| Revised | 7.2-P.1 7.2-P.2 | 1.1 1.3 | Page is deleted. | | | | | |
| Revised | 7.3-P.1 7.3-P.2 7.3-P.3 | 1.3 1.2 1.2 | Entire char | nge acco | ording to the | work for air purge was added. | | |

| Date | 2012.06.07 | Manu | al Ver. | 1.6 | Remark | |
|---------|------------|------|-------------|-----|--------|---------|
| Status | Index | Rev. | | | | Changes |
| Revised | 7.2-P.4 | 1.2 | "Target val | | | |

| Date | 2012.05.29 | Manu | Manual Ver. | | Remark | | | |
|---------|------------|------|---|--|--------|--|--|--|
| Status | Index | Rev. | Changes | | | | | |
| Revised | 5 | 1.1 | 6c and 6c+W ink set are deleted, and 4c+W is added. | | | | | |
| Revised | 5.1-P.2 | 1.2 | The illustration of the coupling is changed. Ink set 6c and 6c+W are deleted, and 4c+W is added. | | | | | |
| Revised | 5.1-P.3 | 1.2 | An importa | An important item of step 2 is changed. | | | | |
| Revised | 5.2 | 1.2 | The ink label illustration is changed. | | | | | |
| Revised | 7.2-P.4 | 1.2 | Step 6 is d | Step 6 is deleted (The following numbers advance). | | | | |

| Date | 2012.05.15 | Manual Ver. | | 1.4 | Remark | | | | |
|---------|------------|-------------|------------|----------------|--------|---------|--|--|--|
| Status | Index | Rev. | | | | Changes | | | |
| Revised | 4.3-P.11 | 1.1 | Deleted:St | Deleted:Step6) | | | | | |
| Revised | 4.3-P.12 | 1.1 | Step numb | er advai | | | | | |

| Date | 2012.03.16 | Manu | Manual Ver. | | Remark | |
|---------|------------|------|-------------|---------|--------|---------|
| Status | Index | Rev. | | | | Changes |
| Revised | 4.3 | 1.1 | 3) of Step | 3 was a | dded. | |

| Date | 2012.02.07 | Manual Ver. | | 1.20 | Remark | | |
|---------|------------|-------------|---|------|--------|---------|--|
| Status | Index | Rev. | | | | Changes | |
| Revised | 3 | 1.1 | Installation Space was revised. | | | | |
| Revised | 7.3 | 1.1 | The procedure of the air purge was changed. | | | | |

| Date | 2012.01.11 | Manual Ver. | | 1.10 | Remark | | | | |
|---------|------------|-------------|--|---|--------|---------|--|--|--|
| Status | Index | Rev. | | | | Changes | | | |
| Revised | 4.4 | 1.1 | Step4 was added. | | | | | | |
| Revised | 5.1 | 1.1 | The conne | The connection of the ink tube was changed. | | | | | |
| Revised | 5.2 | 1.1 | Hint was added. Label of accessories was changed. | | | | | | |

Change Tracking

| Date | 2011.12.19 | Manu | al Ver. | 1.00 | Remark | | | |
|----------|------------|------|------------|------|--------|---------|--|--|
| Status | Index | Rev. | | | | Changes | | |
| Released | | | New issued | | | | | |

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INSTALLATION GUIDE > About the Installation Guide Model JV400-130/160LX Issued 2011.02.15 Revised

1. About the Installation Guide

Outline

This document is a collection of information for service engineers when setting up JV400-130/160LX inkjet printers. During the setup, proceed with the work by referring to this document and the following related documents.

F/W ver.

Remark

Documents related to this unit

Documents other than this document which describe the JV400-130/160LX are listed below. Refer to these as required.

- Operation Manual (included with product)
- Mechanical Drawing
- Maintenance Manual
- Accessories List

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| INSTALLATION GUIDE > About the Installation Guide > Description of the Ink Used | | | | | | | | | ~~ |
|---|-----------------|--------|------------|---------|----------|------|----|----|-----|
| Model | JV400-130/160LX | Issued | 2011.02.15 | Revised | F/W ver. | Rema | rk | Ne | Ξν. |
| | 1.1 Desc | ript | ion of | the | Ink Usec | I | | 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

■ List of main unit specifications

| It | am | Specifications | Demarks | |
|---|--|--|--|--|
| п | cili | JV400-130/160LX | K¢IIIdIKS | |
| Power supply sp | ecifications | Single phase AC100V to 120V : 1440W x 2 Single phase AC220V to 240V : 1800W x 2 | | |
| Power consump | tion | 2120VA or less x2 lines | Main unit including heater | |
| | Usable temperature | 20°C ~ 35°C | | |
| | Relative humidity | 35 to 65% Rh (no condensation) | T | |
| 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 198kg(130LX), 235kg(160LX) | | 198kg(130LX), 235kg(160LX) | | |
| External dimens | ions (W) | 2885 mm or less | | |

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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 Drying heater Assy | Mount the Drying heater Assy. | 4.3 (p.10) |
| □4 | Mounting the Accessories | Carry out the work to attach the accessories. | 4.4 (p.14) |
| □5 | Removing the Stopper | Remove the stopper. | 4.5 (p.15) |

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



Caution

Do not install the machine in the room or area using (photographic) fixing solution or acid solution (acetic acid, hydrochloric acid). An irrecoverable deflection or nozzles missing occur the machine by chemical effect of above solution.

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| INSTALLATION GUIDE > Printer Assembly > Unpacking | | | | | | | | |
|---|-----------------|--------|------------|---------|----------|--------|------|--|
| Model | JV400-130/160LX | Issued | 2011.02.15 | Revised | F/W ver. | Remark | Nev. | |
| | 4.1 Unpa | acki | ng | | | | 1.0 | |



1. Lift down the carton which contains the stands.

2. Remove the lid and sleeve of the box that packages the main unit, and take out the Accessories box, packing box A, and packing box B.



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



Take-up device unit fixing screw

Take-up device unit fixing screw











17. Remove two screws each from the right and leftsides and detach the Stay1.





18. Move Roll Holder to the center of the unit.

19. Paste the Roll Holder position label.



20. Check Clamp Lever is lowered. When Clamp Lever is lifted, push it down.



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□ Fixing Drying Heater Assy



1. Attach the Drying fan side plate.(Right and left) M5x15,4pcs

- 2. Fix the Drying Heater Assy on the Drying fan side plate L/R. (Right and left)
 - 1), Hook the U-groove of the Drying Heater Assy on the positioning screw of the Drying fan side plate L/R and set.
 - 2), With a screw(P4x10SMW,4pcs), fix Drying Heater Assy.(Right and left.)
 - 3), Attach the Corner guard.(Right and left)

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Connecting Heater Power Cable



- 3. Remove three covers below.
 - 1), Left Maintenance Cover-U
 - 2), Left Maintenance Cover-D
 - 3), Heater Connector Cover

- Connect the Heater Power Cable.
 Connect it with the RED/ GREEN cable connected with "CN7" and "CN9" of the Heater PCB.
 - 1), Fix the cable lock on the round hole of MS cover-C.

Tighten the fixing nut of the cable lock firmly.

- 2), Connect the connector.
- 3), Fix a F/G cable with a screw.
- Tighten the Cable fixing nut so that a cable does not fall out.
 Slack off the cable so that the tension may not apply on the connector.
- 5. Attach the cover removed in the Step 3.

2

Connecting Fan Power Cable



Connecting Temperature Sensor Cable



□ Attaching Heater Cover



- 6. Connect the Fan Power Cable(**Blue tag**).
 - Be connected to the central connector.

Connect the Temperature Sensor Cable(Red tag).
 Be connected to the left connector

8. Fix the Heater Cover U.

Tighten screws (P3x8SMW x4) temporarily of the Drying heater Assy., and hung the ditch of the Heater cover bottom to the screws. And then tighten the screws.

Fix the Heater cover U with Screw(P4x10SMW), for the Drying fan side plate L/R. (Right and left)



9. Fix the Heater Skirt.

Tighten screws (P4x10SMW x2) temporarily of the Drying heater Assy., and hung the ditch of the Heater skirt to the screws. And then tighten the screws.

Fix the Heater skirt with Screw(P4x10SMW), for the Drying fan side plate L/R. (Right and left)

| INSTALLATION GUIDE > Printer Assembly > Mounting the Accessories | | | | | | | | |
|--|-----------------|--------------------|------------|----------|--------|------|--|--|
| Model JV400-13 | 80/160LX Issued | 2011.02.15 Revised | 2013.10.10 | F/W ver. | Remark | Nev. | | |
| 4.4Mou | nting th | e Access | ories | | | 1.3 | | |









1. Fix the tank tray to the stands with the screws (M5x15, 2pcs).

2. Attach the waste ink tank. Insert the waste ink tank.

3. Close the waste ink tank guard.

Put a hook of the waste ink tank guard in a hole of the printer then lock it.

4. Attach the "Connector guard A" and "Connector guard B".



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| INSTALLATION GUIDE > Printer Assembly > Removing the Stopper | | | | | | | | Boy | , |
|--|-----------------|--------|--|---------|------------|----------|--------|------|---|
| Model | JV400-130/160LX | Issued | 2011.02.15 | Revised | 2013.04.15 | F/W ver. | Remark | Rev. | - |
| | 4.5 Rem | ovir | Issued 2011.02.15 Revised 2013.04.15 F/W ver. Remark Rev. 4.5 Removing the Stopper 1.2 | | | | | 1.2 | 2 |



1. Open Front cover, remove the screws (P4x 10SMW, 1pcs), and remove Head stopper.



As the screw is at the rear side of the encoder scale, be careful not to damage on the encoder scale when removing it.

| INSTALLATION GUIDE > Printer Assembly > Removing the Fitting | | | | | | | | | Rev |
|---|---------|------|--------|------|-----|------|--|--|-----|
| Model JV400-130/160LX Issued 2013.04.15 Revised F/W ver. Remark | | | | | | Rev. | | | |
| | 4.6 Rem | ovir | ng the | Fitt | ing | | | | 1.0 |



Perform the work as below before ink filling (turning power supply on).

- Station base Ink guide Tube Fitting Cut at both ends Exhaust hole
- Open Front cover.
 Move the Carriage with hand to position easy to work as

required. 2. Cut the tube at both sides of the fitting which is connected to the

Fitting can be disposed of.

tube shown as left-hand figure.

3. Insert the end of the tubes that is cut to the exhaust hole.

Tube

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Outline

For JV400-130/160LX, 4 ways of ink setting above are available.

This was set to four-color at the factory, however, by opening/ closing the joint, you can change it to another color. The procedure to change to except four-color is as below:

List of work procedures

| | Work operation | Description | Refer to |
|----|---------------------------|--|-----------|
| Π1 | Head cleaning | Celan the inside of head and ink paths to be changed. | 7.5 (p.8) |
| □2 | Changing of Joint | Confirm the above ink paths, and change the joint concerned. | 5.1 (p.2) |
| □3 | Pasting label on eco case | Paste the label indicating ink color on the eco case. | 5.2 (p.6) |

| INSTA | LLATION GUIDE > I | nk Set : | > Changing t | he Join | ts | | | Pov | , |
|-------|-------------------|----------|--------------|---------|---------------|--------------------|--------|------|---|
| Model | JV400-130/160LX | Issued | 2011.02.15 | Revised | 2014.04.30 FM | <i>N</i> ver. 2.50 | Remark | T/CV | - |
| | | | | | 4 | | | | |

5.1 Changing the Joints

Outline

Depending on chosen ink set, it must change a relationship between joints and liquid contact valve. Connect ink tubes of the same colors to each other through liquid contact valve.

Change as the followings.



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Model

JV400-130/160LX Issued 2011.02.15 Revised 2014.04.30 F/W ver. 2.50 Remark

5.1 Changing the Joints



Rev.

1.5



Use protective glasses and gloves during work. Depending on the working condition, ink may reach your eyes or your skin may be roughed due to ink.



| INSTA | INSTALLATION GUIDE > Ink Set > Changing the Joints | | | | | | | | | | |
|---|--|-----|---------|------|-----|--|--|--|--|---|-----|
| Model JV400-130/160LX Issued 2013.10.10 Revised 2014.04.30 F/W ver. 2.50 Remark | | | | | | | | | | | |
| | 5.1 Chan | gin | g the 、 | Joir | nts | | | | | 1 | 1.1 |

 \Box When white ink is used, connect the ink tube of circulation path (circulation tube) in accordance with the following.



1. Remove the Damper rubber cap (x2).

Connect two Circulation tubes as shown in the left figure.
 Connect the left Liquid contact valve to the right-upper joint of the damper.

Connect the right Liquid contact valve to the left-lower joint of the damper.

(When you look down the tubes, tubes are crossed.)

- \Box When white ink is used, connect the tube for white ink filter in accordance with the following.
 - 1. Remove **Rear cover LU LX** from the back panel of the main unit.
 - 2. Connect the part of the red dotted line of the figure below. (Remove the No.7 and No.8 filter.)



3. Return the **Rear cover - LU** to the original location, and affix using the screws.

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| INSTA | LLATION GUIDE > | Ink Set | > Pasting lab | oel on e | eco case | | | P | |
|-------|-----------------|---------|---------------|----------|------------|----------|--------|---|------|
| Model | JV400-130/160LX | Issued | 2011.02.15 | Revised | 2013.04.15 | F/W ver. | Remark | | .ev. |
| | 5.2 Pasti | ng | label c | on e | eco ca | se | | 1 | .3 |

Outline

Paste the color label on the rear surface of the eco case depending on ink color to be used.

Ť

Eco case of this machine will be transported with a state inserted in cartridge slot of the main unit. Perform the operation after you pull out the eco case from the main unit.

Work procedures



1. Paste the same ink color label as the set ink pack on the rear surface of the eco case.

Paste it by using the right upper corner of the rear surface of the eco case as reference.



| INSTAL | LATION GUIDE > F | Power S | Supply Relate | d | | | | Boy |
|---|------------------|---------|---------------|------|------|------|--|-----|
| Model JV400-130/160LX Issued 2011.02.15 Revised F/W ver. Remark | | | | | | Nev. | | |
| | 6. Powe | r Si | upply | Rela | ated | | | 1.0 |

■ 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) |

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| INSTA | LLATION GUIDE > F | Power S | Supply Relate | d > Set | tting the Vol | age Sele | ector | Pov |
|-------|-------------------|---------|---------------|---------|---------------|----------|--------|------|
| Model | JV400-130/160LX | Issued | 2011.02.15 | Revised | 2013.04.15 | F/W ver. | Remark | Rev. |
| | 6.1 Settir | ng ti | he Vol | tag | e Sele | ctor | - | 1.1 |

Outline

The device voltage should be switched to 100 to 120V or 220 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.

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6.2 Connecting the Power Cable

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Outline

This device connects to the included two power cables. 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 to 120V, AC220 to 240V |
|-----------|--|
| Frequency | $50/60$ Hz \pm 1Hz |
| Capacity | 15A or more (AC100 to $120V \pm 10\%$) x 2 lines 10A or more (AC220 to $240V \pm 10\%$) x 2 lines |

- 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.
 - Always connect the same voltage power supply to the inlet1 and inlet2.



- 1. Insert the **power cable clamp** into the power supply box.
- 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.



Insert into the socket of separate power line, respectively.

| INSTALLATION GUIDE > Power Supply Related > 1 | Turning the Power On | V. |
|---|--|----|
| 6.3 Turning the Powe | er On 1. | 0 |
| | Turn on the main power supplies of this device. Move the power supply switch on the back panel of this device to " " to turn on the main power supply. | |
| | | 1 |
| | When you press the power switch at the front of the machine, it will start. | 3 |
| BOOT Power on | When the power is turned on, the firmware version is displayed. | 5 |
| JV400 Start-up ver. 1.00R0 | | 6 |
| PLEASE WAIT SEARCHING ORIGIN | | 7 |

| INSTA | LLATION GUIDE > | Power | Supply Relate | ed > Tu | rning the Power Off | | Rov | l |
|-------|-----------------|--------|---------------|---------|---------------------|--------|-------|---|
| Model | JV400-130/160LX | Issued | 2011.02.15 | Revised | F/W ver. | Remark | ILEV. | |
| | 6.4 Turni | ng | the Po | wei | r Off | | 1.0 | |

Outline

When turning the power off, check that the unit is not receiving data, and there is no remaining un-output data. Furthermore, check that the head is in the capping station.





1. Press the power switch on the front of the device once.

| INSTALLATION GUIDE > Outputting Plots | | | | | Rov |
|---------------------------------------|-------------|----------|------|--------|------|
| Model JV400-130/160LX Issued 2011.02 | .15 Revised | F/W ver. | 1.00 | Remark | Rev. |
| 7. Outputting P | lots | | | | 1.0 |

■ List of work procedures

| | Work operation | Description | Refer to |
|----|--------------------------|--|-----------|
| □1 | Setting at Startup | Set the language and the power supply voltage. | 7.1 (p.2) |
| □2 | Initial Ink Fill | Perform ink initial filling. | 7.3 (p.4) |
| □3 | Test Print | Perform test print to check the nozzle status. | 7.4 (p.7) |
| □4 | Cleaning the Heads | Perform cleaning to recover from nozzle missing and deflection. | 7.5 (p.8) |
| □5 | Image Quality Adjustment | Perform the adjusting function such as FEED COMP. and DROP.POScorrect. | 7.6 (p.9) |

| INSTA | LLATION GUIDE > | Output | ting Plots > Se | etting at S | Startup | | | 1 | Pov |
|-------|-----------------|--------|-----------------|-------------|----------|------|--------|---|------|
| Model | JV400-130/160LX | Issue | 2011.02.15 | Revised | F/W ver. | 1.00 | Remark | | Nev. |
| | 7.1 Setti | ng a | at Star | tup | | | | | 1.0 |

Outline

Set the language, the power supply voltage and the time difference suitable for the installation place.





| INSTALLATION GUIDE > | Outputting Plots > Pres | ssure Adjustment (D | eleted) | | F | Pov |
|--|-------------------------|---------------------|---------|--|---|---------------|
| Model JV400-130/160LX Issue 2011.02.15 Revised 2012.10.15 F/W ver. 1.00 Remark | | | | | | \ E V. |
| 7.2 Pres | sure Adjus | stment (De | eleted) | | 1 | 1.0 |

This page is deleted



| INSTALLATION GUIDE > Outputting Plots > Pe | erforming the Initial Ink Fill Revised 2012 10 15 FW ver 1 00 Remark |
|---|--|
| 7.3 Performing the | initial Ink Fill |
| AIR PG POSITION MOVE START [ENT] | 8. Press the ENTER key to move the carriage on the wiper. The head corresponding to the damper selected in 7.moves on the wiper. |
| PLEASE WAIT PREPARING PLEASE WAIT | 9. Wait for a while until the machine is ready for opening the port. |
| AIR PG START [ENT] | 10. Prepare the ink filling jig and press the [ENTER] key. |
| | Do not remove the cap of the damper's port that is not selected. |
| AIR PG COMPLETED [ENT] | 11. Inset the ink filling jig into each port in order and flow a certain amount of ink. *For reference: Amount shall be about 10cm-flowing on the jig. 1) After flowing ink from all ports of the damper selected in |
| | 7., press the [ENTER] key to stop sending ink.2). Remove the ink filling jig and close the cap. |
| Use the ink filling jig. Connect the top edge of the ink filling jig v | vith the "Fitting" on the carriage front surface. |
| Ink filling jig | |
| | Ink filling jig (Connect the top edge.) |
| CAPPING POSITION MOVE START [ENT] | 12. Press the [ENTER] key to return the carriag to the position that close the cap. |

| PLEASE WAIT | 13. Wait for a while until the amount of ink in the damper returns to the normal status. 1) When the operation has been completed, the screen returns to the one in 6. Perform the same work to the remaining damper. Image: When you connect the jig with other color, clean the top edge of the ink filling jig so that colors may not be mixed. 2) After the work for all dampers have been completed, |
|---------------------------------------|--|
| AIR PG VALVE CLOSE COMPLETED [ENT] | press the [◀]key. 14. Check that no air remains in the damper, and return the valve opening shaft with a flathead screwdriver to the original status. Press the [◀] key to terminate the operation. |
| | rotate 90 degrees |
| ** CLEANING ** PLEASE WAIT | 15. When you press [ENTER], the cleaning operation starts. When the cleaning operation has been completed, the screen returns to LOCAL. |
| <local></local> | |

Rev.

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Outline

Perform test print to check the nozzle status.

Working Procedures



- 1. Press [TEST/CLEANING]. Select the "TEST PRINT ".
- 2. Select the pattern arranging direction.
 [▲] [▼] :Select
 [ENTER] :Print start
- 3. Perform test print and return to LOCAL.
- 4. Check the nozzle status, and if nozzle missing etc. occurs, perform cleaning.

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Outline

Perform cleaning to recover from nozzle missing and deflection.

Working Procedures



Outline

Perform the adjusting function such as FEED COMP. and DROP.POScorrect.

Working Procedures

DROP. POScorrect

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.

Perform compensating by the following combination of wave shape, Y-resolution and scanning speed.

WF1:900N,1200N

WF2:900N,1200N,900H,1200H

WF3:600N,600H (for only LX100)



■ Forward adjustment



1. Set Media at X-origin.



- 2. Display [#ADJUST] -> [PRINT ADJUST].
- 3. Select the waveform.

[▲]/[▼]: Switches [ENTER]: Confirms (Next)

- 4. Select the Y-resolution and scanning speed.
 [▲]/[▼]: Y-resolution & Scanning speed change
 [ENTER]: Confirms (Next)
- 5. Select "SiDir" on the [SELECT] display.
 [▲]/[▼]: Switches
 [ENTER]: Confirms (Next)
- 6. Press the [ENTER] key to draw the pattern.

[ENTER] : To start Pattern drawing

[▶] : To the compensation display (Without drawing) 1

2

| INSTALLATION GUIDE > Outputting Plots > Image Quality Adjustment | | | |
|--|--|-----|--|
| Model JV400-130/160LX Issued 2011.02.15 Revise | ting Plots > Image Quality Adjustment Rev. 2011.02.15 Revised 2013.10.10 F/W ver. 2.50 Remark 1.2 Quality Adjustment 1.2 | | |
| 7.6 Image Quality Ad | ljustment | 1.2 | |
| | 7. Check and compensate the patterns. | | |



Return adjustment



Input the adjustment value (the measured value: μ m) so that the impact dots of other nozzle lines (7 lines) are at the same position in the Y-direction, referring to the reference nozzle H1A line.

Check and execute the compensation for $H1A-H1B \sim H2D$.

[▲]/[▼] : Compensating value input (Input unit: 20 μm) [ENTER] : Confirms (Next)



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.

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

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

| 9. On the [SELECT] dis | play, select | "ReDir", and | adjust it in the |
|------------------------|--------------|--------------|------------------|
| same way as "SiDir". | | | |

[▲]/[▼]: Switches [ENTER]: Confirms (Next)

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

- [ENTER] : To start Pattern drawing
 - [▶] : To the compensation display (Without drawing)
- 11. When compensated, draw and check the patterns again.



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

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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.

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



E

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

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| Model JV400-130/160LX Issued 2011.02.15 Revised 2013.10.10 FW ver. 2.50 Remark | | Rev. |
|--|--|------|
| 7.6 Image Quality Adjustment | | |
| FEED COMP. Perform correction of media feed amount. LOCAL> [ADJUST] width:1000mm | Press [ADJUST], and select "FEED COMP.". [ENTER] :Register | |
| EED COMP. [ENT] | | |
| | 2. Start print with [ENTER]. | |
| EED COMP. RINT [ENT] ** PRINTING ** | [ENTER] :Start | |
| PLEASE WAIT | 3. Input the correction value. | |
| EED COMP. 0 | $[\bullet] [\bullet]$:Input the correction value | |
| ¥ | [ENTER] :Proceed to inputting of correction value of the next pattern | - |
| FEED COMP. pattern | | ר |
| Second band | Media advance direction | - |
| (| Print two bands as the compesation pattern. Adjust so that an even color density is obtained around the boundary between the two bands. When "+" value is input: The distance of two bands separates. When "-" value is input: The distance of two bands comes closer. | - |

width:1000mm

Mimaki

