

## JV400LX Instructions for Ink Replacement and Cleaning for Short-Term Storage

This instruction manual covers the ink replacement procedures and cleaning procedures for short-term storage for JV400LX series with firmware version 2.30 or later.

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## 1. Before Starting

In this section we will introduce the contents of this manual and show the differences between previous and current procedures of the ink replacement and the cleaning procedures for short-term storage such as the cleaning before transport to exhibitions when compared with previous models.

### Manual contents

Contains instructions for the following procedures for the firmware version 2.30 or later.

- Ink replacement procedure.
- Cleaning procedure for short-term storage.

As well as required tools and materials for each procedure.

- Required components.

### Other required instruction in addition to this manual

Procedures contained within this manual may require you to refer to particular instructions described in each Installation guide. Please keep your Installation guide on hand to be used in conjunction with this manual.

- Installation Guide

- 4.5 Removing the Stopper
- 4.6 Removing the Fitting
- 5.1 Changing the Joints
- 7.3 Performing the Initial Ink Fill

### Types of ink that can be used with the ink replacement procedure in this manual

The ink replacement procedure described in this manual is applicable to all combinations of ink types and ink sets.

For more information regarding supported ink replacement combinations, please refer to "Appendix 6 - Table 6-1 Component Checklist (Ink Replacement Procedure)".

※ The ink set "6 color" cannot be used yet at firmware version 2.30

### Types of ink that can be used with the cleaning procedure for short-term storage

The cleaning procedure for short-term storage described in this manual is applicable to all combinations of ink types and ink sets.

For more information regarding supported ink types and ink sets, please refer to "Appendix 6 – Table 6-2 Component Checklist (Cleaning Procedure)".

※ The ink set "6 color" cannot be used yet at firmware version 2.30

**Differences with previous ink replacement procedures**

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- It is now possible to perform cleaning without removing the check valve.  
Some previous procedures required the removal of the check valve. This requirement is now not necessary.
- Use Flushing Liquid 03 and Washing Liquid 03 for replacing ink .  
Flushing Liquid 01 , Washing Liquid 01 and Flushing Liquid 02 is not needed.

**Caution: Flushing Liquid 02 cannot be used in combination with LX101 ink.**

**Differences with previous cleaning procedures for short-term storage**

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- Use Flushing Liquid 03 cartridge, Washing Liquid 03 maintenance kit and Maintenance Liquid 04 for cleaning for short-term storage.  
Flushing Liquid 01 and Flushing Liquid 02 is not needed.

**Caution: Flushing Liquid 02 cannot be used in combination with LX101 ink.**

**Items that are not covered by this manual's ink replacement and cleaning procedures  
for short-term storage**

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- Nozzle missing restoration.
- High-temperature storage.
- Long-term storage.

**Caution: During long-term or high-temperature storage, there is a high probability of the occurrence of problems such as nozzle missing, deflection, or ink landing misalignment in Y direction. In this case, the procedures in this manual are unlikely to remedy the problem and it may be necessary for replacing print head.**

**Product range differs according to the area.  
Please contact the local subsidiary.**

## 2. Required Components

In this section we will introduce the components required for the ink replacement procedure and cleaning procedure for short-term storage.

### List of Components

Part names and codes used for the ink replacement procedure and cleaning procedure for short-term storage are shown in " Table 2-1 List of Components ".

For kits and assembly products, please refer to " Table 2-2 Kit and Assembly Product Component List " when placing an order of the parts, please refer to " Table 2-1 List of Components "

**Table 2-1. List of Components**

Parts codes	Parts name	Qty	Remarks	Reference
C-FL003-Z-22-1-KA	Flushing Liquid 03	220ml	Cartridge	#1
(Except EU area) C-ML003-Z-K1-1-KW (For EU area) C-ML003-Z-K1-1-KE	Washing Liquid 03 Maintenance kit	200ml	Bottle	#3
MP-M014439	JV400 cleaning kit II	(Table 2-2)		
MP-M014397	Check valve maintenance ASSY	(Table 2-2)		
SPA-0187	W Filter kit	Filter 2pcs		#9
MP-M014428	Maintenance Liquid 04	200ml	Bottle	#12
M700782	φ2 rubber plug	1pcs	Used for UISS Path. The same as #7.	#13

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Table 2-2. Kit and Assembly Product Component List

Parts codes	Parts name	Qty	Remarks	Reference
MP-M014439	JV400 cleaning kit II			
***	(1)Cleaning solution filling syringe Assy	1pcs	(It cannot order individually.) ⊙ (see * I )	#4
SS-20ESZ	(2)Syringe	1pcs	▲ (see * I )	#2
1080249	(3)Tube, Supply, φ2 ; N	50cm 1pcs	▲ (see * I )	#5
6-586-07	(4)Silicon rubber tube (2*4)50M	3cm 1pcs	⊙ (see * I )	#6
M700782	(5)φ2 rubber plug	2pcs	Used for Circulation Path in the rear. The same as #13. ⊙ (see * I )	#7
7-653-01	(6)Non-woven fabric	1pack	⊙ (see * I )	
VFI236	(7)Fitting	1pcs		#11
M700727	(8)Damper rubber plug 2	2pcs	Used for Circulation Path in the front. ▲ (see * I )	#8
MP-M014397	Check valve maintenance ASSY			
***	(1)Check valve Assy	8pcs	(It cannot order individually.)	#10

\* I .

Components that are marked with a "⊙" are included in the MP-M012543 JV400 cleaning kit.  
Components that are marked with a "▲" are not included in the MP-M012543 JV400 cleaning kit.  
We plan to start shipping the MP-M014439 JV400 cleaning kit II from the end of July. If you wish to perform ink replacement before this time, please prepare the MP-M012543 JV400 cleaning kit, and prepare Damper rubber plug 2, tube and, syringe that are marked with a "▲" .  
(The VFI236 fitting is required for storage of the unit. It is not required if you are only performing ink replacement.)

## About of Components

In this section we will introduce each component within the "List of Components - Table 2-1 List of Components, and Table 2-2 Kit and Assembly Product Component List".

Reference (#1) to (#13) in the "List of Components - Table 2-1 List of Components, and Table 2-2 Kit and Assembly Product Component List" correspond to the numbers (#1) to (#13) in the following list of components.

- **Kit1** is indicated for included in "JV400 cleaning kit II".
- **Kit2** is indicated for included in "Check valve Assy".

### [ Standard components ]

- Cleaning components.

(#1) Flushing Liquid 03.....220ml / cartridge,  
(Required 8 cartridges)                      Used for cleaning enough for eight paths use.

(#2) Syringe **Kit1** .....Used to draw out ink from air purge ports.  
(Required 1 pcs)

### [ Additional components 1: When cleaning of white ink and circulation paths are required ]

- Cleaning components.

(#3) Washing liquid 03 .....200ml / bottle,  
Maintenance kit                      Used for cleaning the circulation path.  
(Required 1 kit)

(#4) Cleaning solution  
filling syringe **Kit1** ..... Syringe (25ml), Filter, and 1080249 tube  
(Required 1 Assy)                      are connected by a silicon tube.  
They are connected to the circulation path  
and used to extract ink and inject/remove  
washing liquid. (Fig2-1)



**Fig2-1. Cleaning  
solution filling syringe  
Assy**

(#5) 1080249 tube **Kit1** .....When cleaning the circulation path, this tube connects the  
(Required 1 pcs of 50cm tube)                      discharge-side path, as well as the discharge-side path and  
Waste ink tank.

(#6) Silicon rubber tube **Kit1** ....During discharge/cleaning of the circulation path, one tube is used to  
(Required 3 pcs of 1cm tube)                      connect between rear circulation paths, one tube is used to connect  
the front circulation path to the 1080249 tube, and one tube is used to  
connect the front circulation path to the cleaning solution filling syringe  
Assy.

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(#7) φ2 rubber plug **Kit1** ..... Rubber plugs to be inserted in places where circulation paths have been removed.  
(Required 2 pcs)

(#8) Damper rubber plug 2 **Kit1** ..... Rubber plugs to be inserted in places where circulation paths have been removed from the damper  
(Required 2 pcs)

- Replacement parts

(#9) Filter ..... Enough for two filter replacements in the white ink path.  
(Required 2 pcs)

### [ Additional components 2: When removal of the UISS path is required ]

- Parts to be installed

(#13) φ2 rubber plug ..... Rubber plugs to be inserted in places where UISS paths have been removed.  
(Required 4 or 8 pcs)

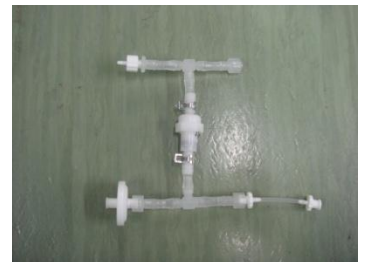
**※ Please use the standard accessories.  
Please prepare more parts if there is a shortage.**

### [ Additional components 3: When there are paths where the other color of ink is changed ]

- Replacement parts

(#10) Check valve Assy **Kit2** ..... Please prepare the check valve depending on the number path to be replaced.  
(Required 2-5 pcs)  
(Fig 2-2)

(#9) Filter ..... Please prepare enough to cover each path that requires filter replacement.  
(Required 2 or 3 or 5 pcs)



**Fig 2-2. Check valve**  
**※Filter is not included really.**

### [ Additional components 4: When carrying out cleaning for short-term storage ]

- Storage-related components.

(#11) Fitting **Kit1** ..... Connects cap 1 and 2 discharge paths.  
(Required 1 pcs)

(#12) Maintenance liquid 04 ..... Used to fill dampers, heads, and caps for storage.  
(Required 1 pcs)

- Replacement parts

(#9) Filter ..... Used to replace the filter in all paths.  
(Required 8 pcs)

### Other Items to be Prepared

In this section we will introduce the tools and materials required for the ink replacement procedure and cleaning procedure for short-term storage. Please prepare these items yourself before commencing work.

- Tools

- Philips screwdriver
- Flat head screwdriver
- Diagonal pliers
- Needle-nose pliers

To remove and reattach the cover.

To open and close the air purge valve.

To cut the silicon tube.

To loosen fittings when they are too tight to move your hand.

- Cleaning equipment

- Paper towels

Please prepare an ample amount.



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### Preparation of Components

Depending on the work to be carried out, required components and their numbers may vary. Components needed for each procedure are shown in "Tables 2-3 to 2-7 Required Components". Please refer to any table that is applicable to the work you wish to carry out and prepare any components that are required.

Please also refer to "6. Appendix - Table 6-1 and 6-2 Component Checklist" for a list of all components.

**Table 2-3. Required Components(Ink replacement) / ① LX100 → LX101**

From(before replacement)	Ink type	LX100					
	Ink set name	4 color			4 color+W		
	Ink set color	MMCCYYKK	MMCCYYKK	MMCCYYKK	MMCCYKWW	MMCCYKWW	MMCCYKWW
To(after replacement)	Ink type	LX101					
	Ink set name	4 color	6 color	6 color+W	4 color	6 color	6 color+W
	Ink set color	MMCCYYKK	MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYMKC	MOCGYKWW
Check of work							
(1) Number of the path for cleaning		8 path	8 path	8 path	8 path	8 path	8 path
(2) Circulation path cleaning		×	○	○	○	○	×
(3) Removal/attaching UISS path		×	○ Remove 8	○ Remove 8	○ Attach 4	○ Remove 4	○ Remove 4
(4) Replacement check valve		×	○ 4 points	○ 5 points	○ 3 points	○ 5 points	○ 2 points
(5) Replacement filter		×	○ 4 points	○ 5 points	○ 3 points	○ 5 points	○ 4 points
Requirement parts (quantity)							
C-FL003-Z-22-1-KA	Flushing liquid 03 (220ml/cartridge)	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs
C-ML003-Z-K1-1-KW ( except EU) C-ML003-Z-K1-1-KE ( for EU area)	Washing liquid 03 Maintenance kit (200ml/bottle)	×	1 pc	1 pc	1 pc	1 pc	×
MP-M014439	JV400 cleaning kit II	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit
MP-M014397	Check valve ASSY	×	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY
SPA-0187	W filter kit (x 2 filters)	×	2 kit	3 kit	2 kit	3 kit	2 kit
MP-M014428	Maintenance liquid 04 (200ml/bottle)	×	×	×	×	×	×
M700782	φ2 rubber plug ※ for UISS path	×	8 pcs	8 pcs	×	4 pcs	4 pcs

※ ○: Required, × : Not required

# Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

**Table 2-4. Required Components (Ink replacement) / ② LX101 → LX101**

From (before replacement)	Ink type	LX101					
	Ink set name	4 color		6 color		6 color+W	
	Ink set color	MMCCYYKK	MMCCYYKK	MOCGYMKC	MOCGYMKC	MOCGYKWW	MOCGYKWW
To (after replacement)	Ink type	LX101					
	Ink set name	6 color	6 color+W	4 color	6 color+W	4 color	6 color
	Ink set color	MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYKWW	MMCCYYKK	MOCGYMKC
Check of work							
(1) Number of the path for cleaning		8 path	8 path	8 path	8 path	8 path	8 path
(2) Circulation path cleaning		○	○	○	○	○	○
(3) Removal/attaching UISS path		○ Remove 8	○ Remove 8	○ Attach 8	×	○ Attach 8	×
(4) Replacement check valve		○ 4 points	○ 5 points	○ 4 points	○ 3 points	○ 5 points	○ 3 points
(5) Replacement filter		○ 4 points	○ 5 points	○ 4 points	○ 3 points	○ 5 points	○ 3 points
Requirement parts (quantity)							
C-FL003-Z-22-1-KA	Flushing liquid 03 (220ml/cartridge)	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs
C-ML003-Z-K1-1-KW ( except EU) C-ML003-Z-K1-1-KE ( for EU area)	Washing liquid 03 Maintenance kit (200ml/bottle)	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
MP-M014439	JV400 cleaning kit II	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit
MP-M014397	Check valve ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY
SPA-0187	W filter kit ( x 2 filters)	2 kit	3 kit	2 kit	2 kit	3 kit	2 kit
MP-M014428	Maintenance liquid 04 (200ml/bottle)	×	×	×	×	×	×
M700782	φ2 rubber plug ※ for UISS path	8 pcs	8 pcs	×	×	×	×

※ ○: Required, × : Not required

**Table 2-5. Required Components (Ink replacement) / ③ LX100 → LX100**

From (before replacement)	Ink type	LX100	
	Ink set name	4 color	4 color+W
	Ink set color	MMCCYYKK	MMCCYKWW
To (after replacement)	Ink type	LX100	
	Ink set name	4 color+W	4 color
	Ink set color	MMCCYKWW	MMCCYYKK
Check of work			
(1) Number of the path for cleaning		8 path	8 path
(2) Circulation path cleaning		○	○
(3) Removal/attaching UISS path		○ Remove 4	○ Attach 4
(4) Replacement check valve		○ 3 points	○ 3 points
(5) Replacement filter		○ 3 points	○ 3 points
Requirement parts (quantity)			
C-FL003-Z-22-1-KA	Flushing liquid 03 (220ml/cartridge)	8 pcs	8 pcs
C-ML003-Z-K1-1-KW ( except EU) C-ML003-Z-K1-1-KE ( for EU area)	Washing liquid 03 Maintenance kit (200ml/bottle)	1 pc	1 pc
MP-M014439	JV400 cleaning kit II	1 kit	1 kit
MP-M014397	Check valve ASSY	1 ASSY	1 ASSY
SPA-0187	W filter kit ( x 2 filters)	2 kit	2 kit
MP-M014428	Maintenance liquid 04 (200ml/bottle)	×	×
M700782	φ2 rubber plug ※ for UISS path	4 pcs	×

※ ○: Required, × : Not required

# Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

**Table 2-6. Required Components (Ink replacement) / ④ LX101 → LX100**

From (before replacement)	Ink type	LX101					
	Ink set name	4 color		6 color		6 color+W	
	Ink set color	MMCCYYKK	MMCCYYKK	MOCGYMKC	MOCGYMKC	MOCGYKWW	MOCGYKWW
To (after replacement)	Ink type	LX100					
	Ink set name	4 color	4 color+W	4 color	4 color+W	4 color	4 color+W
	Ink set color	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYKWW
Check of work							
(1) Number of the path for cleaning		8 path	8 path	8 path	8 path	8 path	8 path
(2) Circulation path cleaning		×	○	○	○	○	×
(3) Removal/attaching UISS path		×	○ Remove 4	○ Attach 8	○ Attach 4	○ Attach 8	○ Attach 4
(4) Replacement check valve		×	○ 3 points	○ 4 points	○ 5 points	○ 5 points	○ 2 points
(5) Replacement filter		×	○ 3 points	○ 4 points	○ 5 points	○ 5 points	○ 4 points
Requirement parts (quantity)							
C-FL003-Z-22-1-KA	Flushing liquid 03 (220ml/cartridge)	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs
C-ML003-Z-K1-1-KW (except EU) C-ML003-Z-K1-1-KE (for EU area)	Washing liquid 03 Maintenance kit (200ml/bottle)	×	1 pc	1 pc	1 pc	1 pc	×
MP-M014439	JV400 cleaning kit II	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit
MP-M014397	Check valve ASSY	×	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY
SPA-0187	W filter kit (x 2 filters)	×	2 kit	2 kit	3 kit	3 kit	2 kit
MP-M014428	Maintenance liquid 04 (200ml/bottle)	×	×	×	×	×	×
M700782	φ2 rubber plug ※ for UISS path	×	4 pcs	×	×	×	×

※ ○: Required, ×: Not required

**Table 2-7. Required Components (Cleaning for Short-Term Storage)**

Ink type		LX101			LX100	
Ink set name		4 color	6色	6 color+W	4 color	4 color+W
Ink set color		MMCCYYKK	MOCGYMKC	MOCGYKWW	MMCCYYKK	MMCCYKWW
Check of work						
(1) Number of the path for cleaning		8 path	8 path	8 path	8 path	8 path
(2) Cleaning circulation path		×	×	○	×	○
(3) Replacement filter		○ 8 points	○ 8 points	○ 8 points	○ 8 points	○ 8 points
Requirement parts (quantity)						
C-FL003-Z-22-1-KA	Flushing liquid 03 (220ml/cartridge)	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs
C-ML003-Z-K1-1-KW (except EU) C-ML003-Z-K1-1-KE (for EU area)	Washing liquid 03 Maintenance kit (200ml/bottle)	×	×	1 pc	×	1 pc
MP-M014439	JV400 cleaning kit II	1 kit	1 kit	1 kit	1 kit	1 kit
MP-M014397	Check valve ASSY	×	×	×	×	×
SPA-0187	W filter kit (x 2 filters)	4 kit	4 kit	4 kit	4 kit	4 kit
MP-M014428	Maintenance liquid 04 (200ml/bottle)	1 pc	1 pc	1 pc	1 pc	1 pc
M700782	φ2 rubber plug ※ for UISS path	×	×	×	×	×

※ ○: Required, ×: Not required

**3. Ink Replacement Procedure**

In this section we will introduce the ink replacement procedure for JV400LX series with firmware version 2.30 or later.

**Preparation of Components**

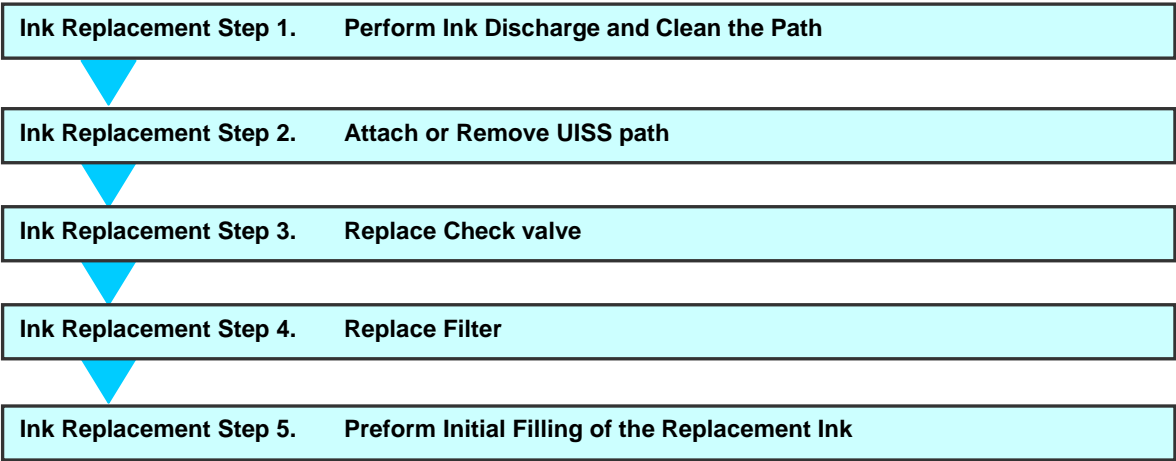
Please refer to "2. Required Components - Tables 2-3 to 2-6 Required Components" and prepare all components required for your particular ink replacement combination.

**Work Procedure**

Please follow the steps below to perform ink replacement.

The entire procedure consists of cleaning (Ink replacement step 1), parts replacement (steps 2 to 4), and initial filling (step 5).

The entire replacement procedure should take around 2 to 3 hours. This may vary depending on the type of ink replacement work. For more information regarding the approximate time required for each type of ink replacement, please refer to "6. Appendix - Table 6-3 Work Checklist (Ink Replacement)".



**Fig 3-1. Workflow of Ink Replacement**

Assuming that regular ink replacement is performed in one work session, individual menus and steps can be arranged together to shorten the entire procedure.

Example: During work, the Rear cover LU is removed. However, it is put back in place at the end.

Example: Circulation path washing can be carried out straight after performing circulation path discharge.

### Work Preparation

- Make sure to upgrade the firmware version 2.30 or later.
- Empty the waste ink tank and clear its level indicator information so that it reads 0%.
  - ◆ : For more information regarding how to clear the waste ink tank level indicator, please refer to "5. Supplementary Information - Supplement 1. Clearing waste ink tank Level Indicator Information".
- Cover the station surroundings with a material such as paper towels. This protects against ink dripping from the print head.

### Precautions During Work

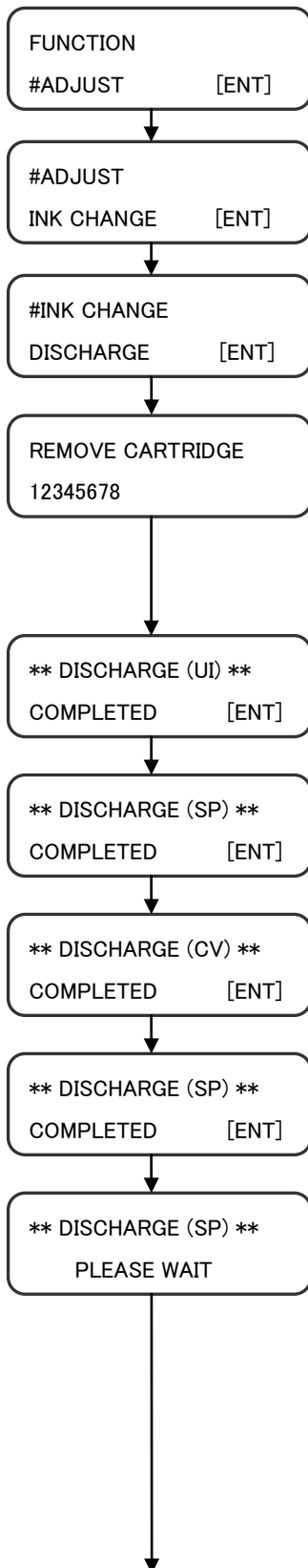
- **Always wear protective goggles and gloves when handling ink or cleaning solution.**
- Do not leave the ink for over two hours in a state where the ink is discharged.
- To prevent waste liquid from dripping out of the waste ink tank, please pay attention to the level of waste ink.
- Do not leave the carriage for a long time in a state where the carriage is out.

### Cleanup After Work

- Empty the waste ink tank and clear its level information.
- Remove coverings such as paper towels from around the station.
- Attach the cover that was removed during the work procedure. (Rear cover LU, Head cover Assy)

## Ink Replacement Step 1. Perform Ink Discharge and Clean the Path

Use the ink replace/discharge menu to discharge the ink. Then use the ink replace/ discharge menu to clean the ink path.



1. Select [ #ADJUST ] -> [ INK CHANGE ] -> [ DISCHARGE ] and press the ENTER key.

2. Remove all ink cartridges.

3. The ink discharge process is started.

(UI) Ink discharge from the UISS path: 6 minutes

· Only if the ink set includes the UISS path.

↓

↓

(SP) Ink discharge from the main ink path: 5 minutes

↓

↓

(CV) Ink discharge from the check valve: 1 minute

↓

↓

(SP) Ink discharge from the main ink path: 5 minutes

↓

↓

(SP) Negative pressure released, wiping, carriage out: 1 minute

※ Please be aware of the carriage moving since carriage-out is automatically performed.

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Discharge Cir. Path

START

[ENT]

4. The screen appears for starting ink discharge in the circulation path.

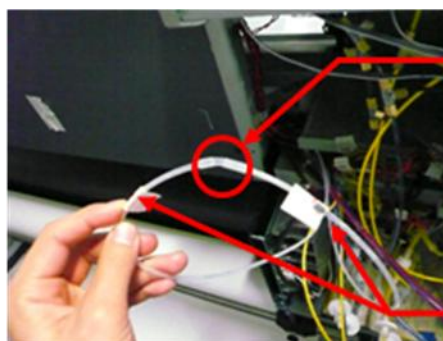
If the ink set requires circulation path cleaning, carry out ink discharge/cleaning preparation.

If the ink set does not require circulation path cleaning, press the ENTER key twice and continue directly to step 6.

※ For more information regarding the necessity of circulation path cleaning, please refer to "Appendix 6. - Table 5-3 Work Checklist (Ink Replacement) - Work Checklist (2) Column".

- (1) Remove the Rear cover LU.
- (2) Remove the cartridge-side paths for circulation paths 7 and 8. Connect the removed circulation paths 7 and 8 with the silicon rubber tube (#6) and seal the original hole with a rubber plug (#7).

※ Please mark circulation paths 7 and 8 so that you can easily tell them apart.

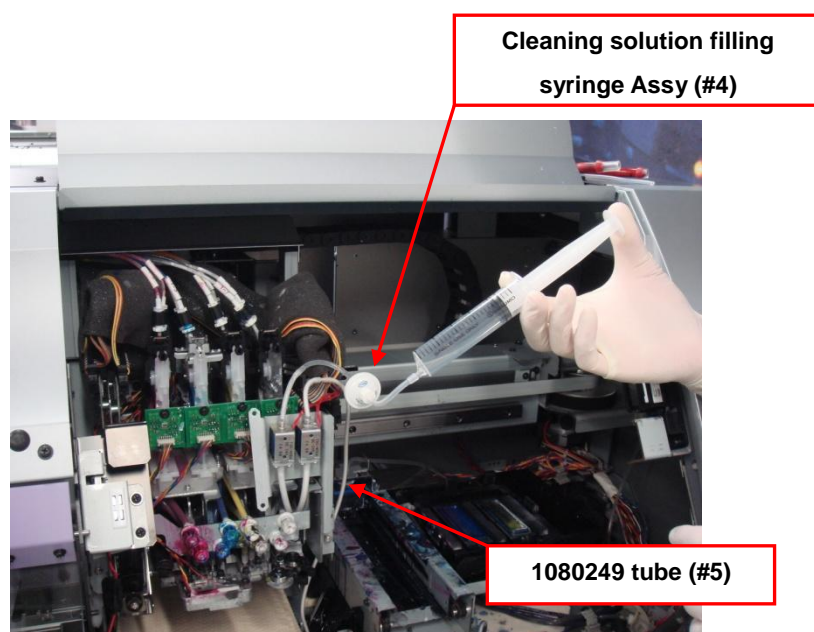


Silicon tube  
(#6)

Circulation  
path 7 and 8

Fig 3-2. Connection path 7 and 8

- (3) Open the Maintenance cover R.
- (4) Remove the Head cover Assy.
- (5) Pull out the damper side of the tube through which it passes from the right circulation valve to the damper. Connect it to the 1080249 tube (#5) and seal the damper-side hole with a rubber plug (#8).
- (6) Insert the other end of the 1080249 tube (#5) into the waste ink tray.
- (7) Pull out the damper side of the tube through which it passes from the left circulation valve to the damper. Connect it to the cleaning solution filling syringe Assy (#4) and seal the damper-side hole with a rubber plug (#8).



**Fig 3-3. Preparation for discharging of the circulation path**

- (8) Press the ENTER key when preparation is complete.  
The circulation valve will open automatically.
-

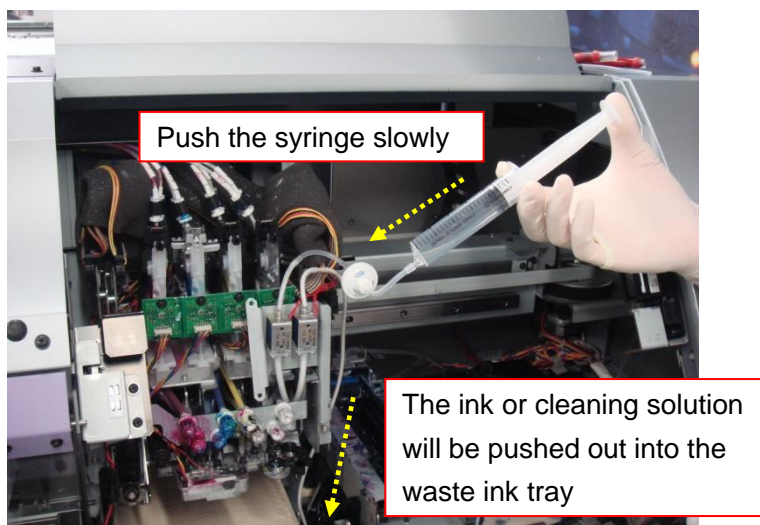


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Discharge Cir. Path  
COMPLETED [ENT]

5. The screen appears for completing ink discharge in the circulation path.  
Carry out circulation path ink discharge/cleaning.

- (1) Remove the syringe from the fitting in front of the cleaning solution filling syringe Assy (#4) filter.
- (2) Suck the air into the removed syringe.
- (3) Attach the syringe back to the fitting.
- (4) Slowly push the air out of the syringe (around 0.5 ml per second) to discharge the ink from the circulation path.
- (5) Repeat steps (1) to (4) until all the ink has been pushed out.



**Fig 3-4. Circulation Path ink/cleaning solution Discharge**

(※ To reduce the overall time, immediately move on to circulation path cleaning.)

- (6) Remove the syringe from the fitting.
- (7) Suck washing liquid solution 03 into the removed syringe from the cleaning solution 03 bottle (#3).
- (8) Attach the syringe back to the fitting.
- (9) Slowly push the washing liquid 03 out of the syringe (around 0.5 ml per second) to fill the circulation path with the washing liquid 03.
- (10) Remove the syringe again from the fitting.
- (11) Suck the air into the removed syringe.
- (12) Attach the syringe back to the fitting.
- (13) Slowly push the air out of the syringe (around 0.5 ml per second) to discharge the washing liquid 03 from the circulation path.
- (14) Repeat steps (6) to (13) until all the discharged cleaning solution shows no discoloration of the ink.

## Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

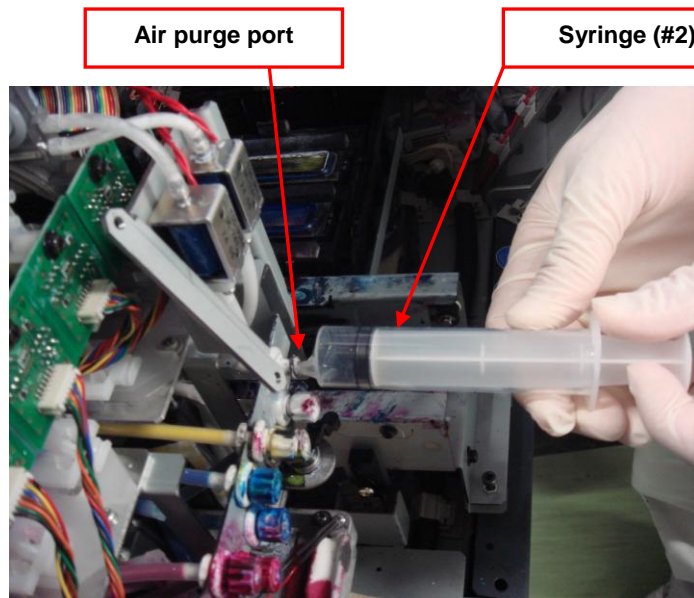
- (15) Return the path connected to the cleaning solution filling syringe Assy (#4) to the upper side of the damper.
- (16) Return the path connected to the 1080249 tube (#5) to the lower side of the damper.
- (17) Return circulation paths 7 and 8 to their original positions.
- (18) Press the ENTER key when the work is completed.

The circulation valve will close automatically.

Discharge AirPG Port  
START [ENT]

6. The screen appears for starting ink discharge in the air purge port. Carry out preparation for ink discharge.

- (1) Remove one of the air purge port cap and insert a syringe (#2)



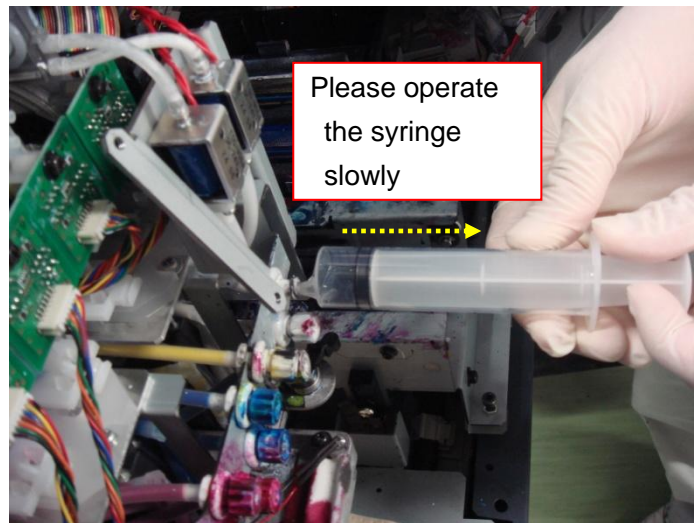
**Fig 3-5. Preparation for discharging of the air purge port**

- (2) Press the ENTER key when preparation is completed. The cartridge valve will open automatically.

Discharge AirPG Port  
COMPLETED [ENT]

7. The screen appears for completing the ink discharge in the air purge port.  
Carry out the ink discharge in the air purge port.

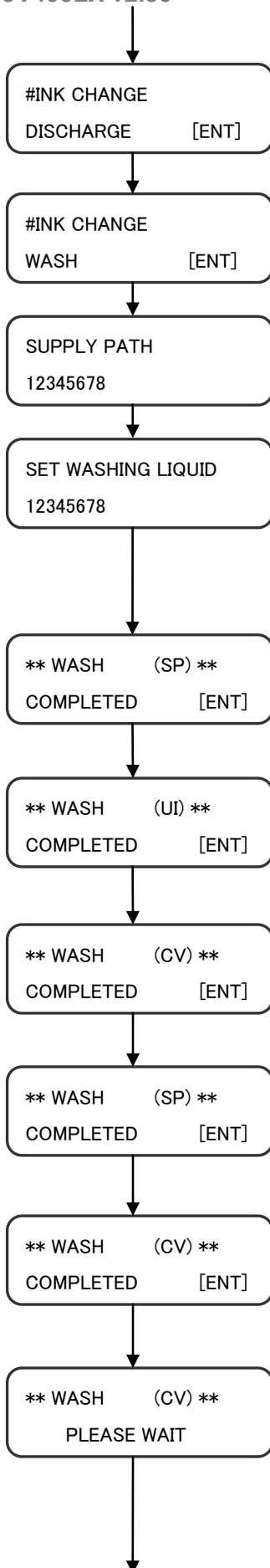
- (1) Slowly suck the syringe (#2) (around 0.5 cm per second) until all the ink has been discharged from the air purge port.



**Fig 3-6. Discharging of the air purge port**

- (2) Once no more ink comes out, remove the syringe and close the air purge port cap.
- (3) In the same manner, remove the ink from the remaining seven ports.
- (4) Press the ENTER key when the work is completed.  
The cartridge valve will close automatically

## Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30



8. Once capping is completed and the ink replacement/discharge menu will close.

9. Select [ #ADJUST ] -> [ INK CHANGE ] -> [ WASH ] and press the ENTER key.

10. Select all paths that require cleaning and press the ENTER key.

**※ Please select all eight paths.**

11. Insert a cleaning solution 03 cartridge (#1) into each slot of the selected paths.

12. Cleaning solution filling operation is started.

(SP) Filling of the main ink path: 1 minute, 30 seconds



(UI) Filling of the UISS path: 2 minutes, 30 seconds

· Only if the ink set includes the UISS path



(CV) Filling of the check valve: 1 minute



(SP) Filling of the main ink pat: 5 minutes

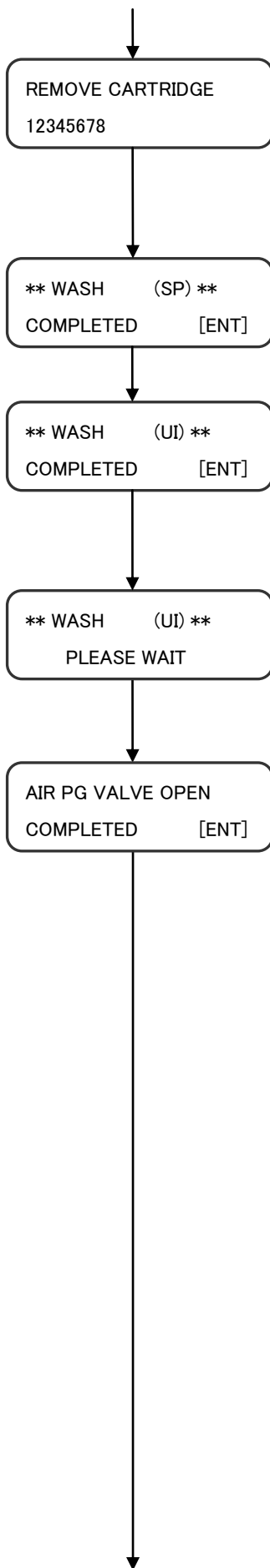


(CV) Filling of Check valve : 1 minute



(CV) Negative pressure released: 30 seconds

Instructions for Ink Replacement and Cleaning for Short-Term Storage  
for JV400LX v2.30



---

13. Remove all Flushing Liquid 03 cartridge (#1).

---

14. Cleaning solution discharge operation is started.

(SP) Discharge of the main path: 1 minute, 30 seconds



(UI) Discharge of the UISS path: 3 minutes

· Only if the ink set includes the UISS path.



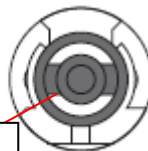
(UI) Negative pressure released: 30 seconds

---

15. The screen appears for work completion of opening the air purge valve.

Open the air purge valve.

- (1) Make sure that the opening shafts of air purge valves for all paths to be cleaned are in the horizontal position.

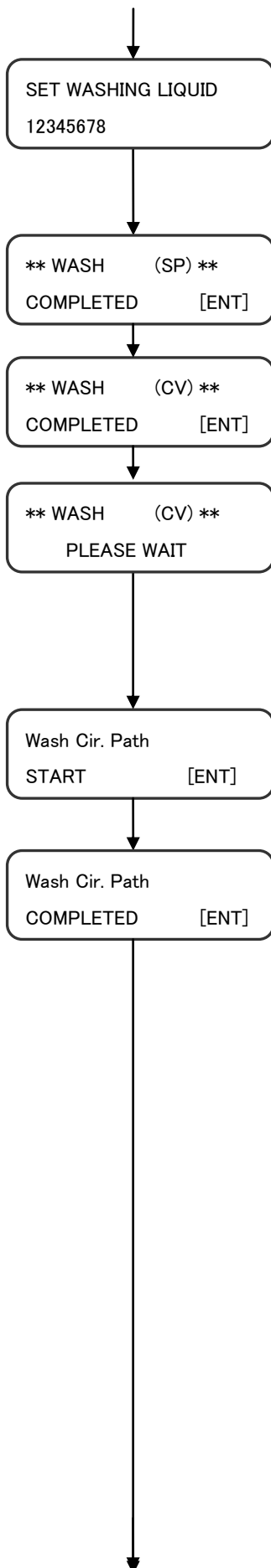


Valve opening shaft

**Fig 3-7. Air purge valve is opened  
(Valve opening shaft: horizontal)**

- (2) Press the ENTER key.
-

Instructions for Ink Replacement and Cleaning for Short-Term Storage  
for JV400LX v2.30



---

16. Insert the Flushing Liquid 03 cartridge (#1) into each slot of the selected paths.

---

17. Cleaning-solution-filling is started.

(SP) Filling of the main ink path: 5 minutes



(CV) Filling of the check valve: 1 minute  
· Only if the ink set includes the UISS path.



(CV) Negative pressure released, wiping, carriage out: 1 minute, 30 seconds

※ Please be aware of the carriage moving since carriage-out is automatically performed.

---

18. The screen appears for start washing the circulation path.

Press the ENTER key.

The circulation valve will open automatically.

---

19. The screen appears for completion of washing the circulation path.

Press the ENTER key.

The circulation valve will close automatically.

※ Circulation path cleaning is finished at step 5.  
Therefore, it is not necessary to carry out now.  
Press the ENTER key to continue.

---

Wash AirPG Port  
START [ENT]

20. The screen appears for start washing the air purge port.  
Carry out the air purge port cleaning preparation.

- (1) Remove one of the air purge port caps and insert a syringe (#2).

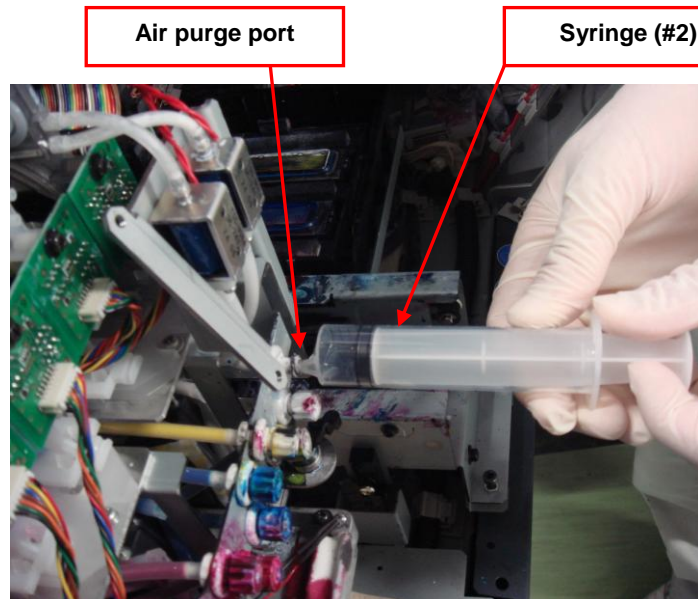


Fig 3-8. Preparation for cleaning of the air purge port

- (2) Press the ENTER key when preparation is complete.

Wash AirPG Port  
COMPLETED [ENT]

21. The screen appears for completing the air purge port cleaning.  
Carry out cleaning the air purge port

- (1) Slowly suck the syringe (#2) (around 0.5 cm per second) until all the cleaning solution 03 has been discharged from the air purge port.

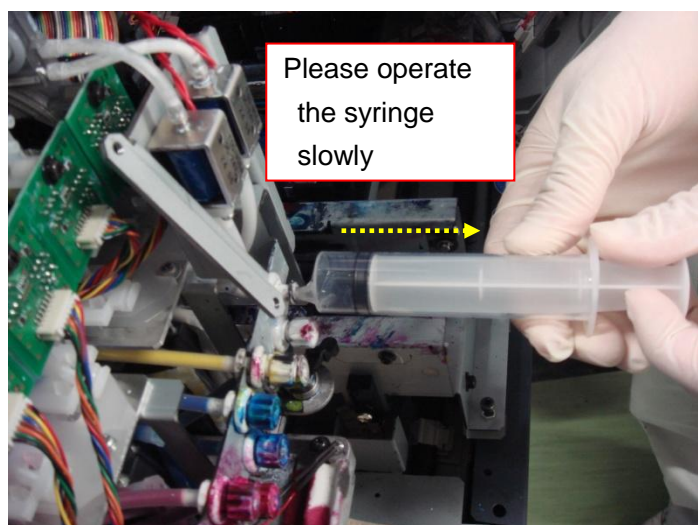
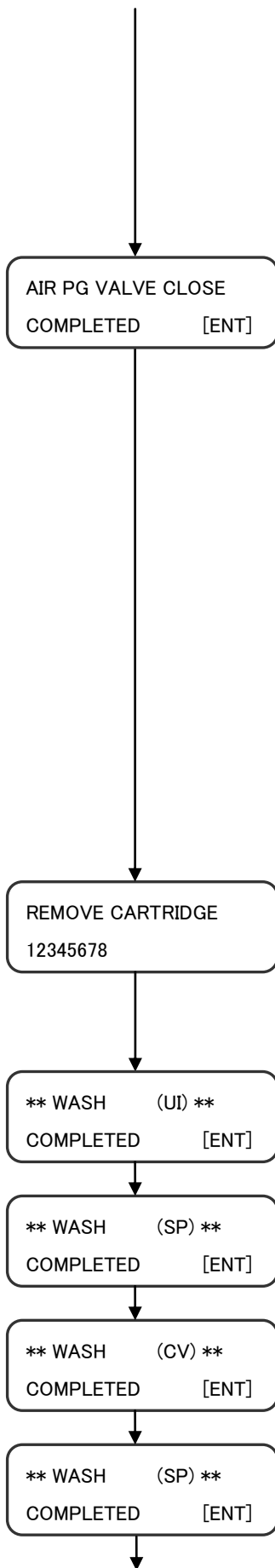


Fig 3-9. Cleaning of the air purge port

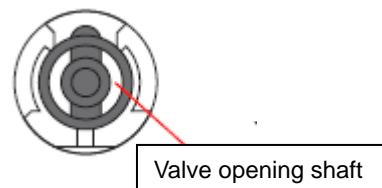




- (2) Once no more cleaning solution comes out, remove the syringe (2) and close the air purge port cap.
- (3) In the same manner, remove the cleaning solution from the remaining seven ports.
- (4) Press the ENTER key once the work is completed.

22. The screen appears for completion of closing the air purge valve.  
Close the air purge valve.

- (1) Make sure that the opening shafts of air purge valves for all paths are in the vertical position.



**Fig 3-10. Air purge valve is closed  
(Valve opening shaft: vertical)**

- (2) Press the ENTER key.  
Capping will be carried out automatically.

23. Remove all Flushing Liquid 03 cartridge (#1).

24. Cleaning-solution-discharge is started.

(UI) Discharge of the UISS path: 4 minutes  
· Only if the ink set includes the UISS path.

↓  
↓

(SP) Discharge of the UISS path: 5 minutes

↓  
↓

(CV) Discharge of the Check valve: 1 minute

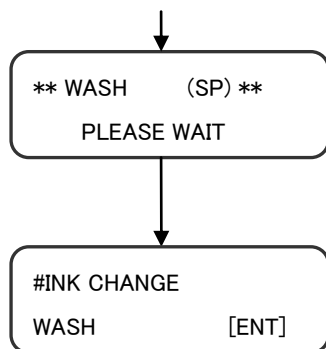
↓  
↓

(SP) Discharge of the main path: 10 minutes

↓  
↓



Instructions for Ink Replacement and Cleaning for Short-Term Storage  
for JV400LX v2.30



(SP) Negative pressure released: 2 minutes

---

25. The Ink replacement/Cleaning menu will close.

※ Please remove the Head Cover Assy and the Back Cover LU and check whether the damper and the path has been washed. When the damper and the path cannot be being washed, please check whether there are any problems around cap, path, and damper and please carry out Step.1 again after coping with a problem.

---

## Ink Replacement 2. UISS path Installation or Removal

Depending on whether the ink set you wish to use has a UISS path, you may need to perform UISS path installation or removal on the rear of the unit. The required number and location of UISS path to be installed / removed may vary depending on the type of ink replacement. For more information, please refer to "6. Appendix - Table 6-3 Work Checklist (Ink Replacement) - Work Checklist (3) Column"

1. Change the UISS path coupling in accordance with "6.2.1 Modification of Coupling" in the Maintenance Manual, and "5.1 Modification of Coupling" in the Installation Guide.

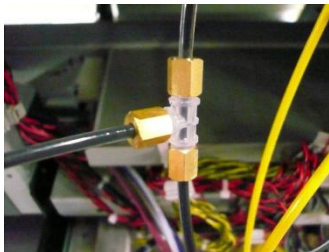
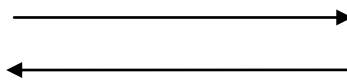


Fig 3-11. Attaching the UISS path

To remove the UISS path:  
Remove the UISS path and insert a  
rubber plug (#13).



To install the UISS path:  
Remove the rubber plug (#13) and  
insert a UISS path.

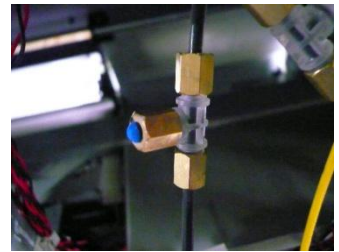


Fig 3-12. Attaching the rubber plug

## Ink Replacement 3. Check valve Replacement

Replace the check valve for any paths where the ink color will change.

The required number and location of check valve to be replaced may vary depending on the type of ink replacement. For more information, please refer to "6. Appendix - Table 6-3 Work Checklist (Ink Replacement) - Work Checklist (4) Column".

1. Remove the four parts indicated by the arrows in the following diagram and replace the check valve (#10).

**※For improved efficiency, it is desirable to carry out "Ink Replacement 4. Filter Replacement" at the same time as you perform the check valve replacement.**

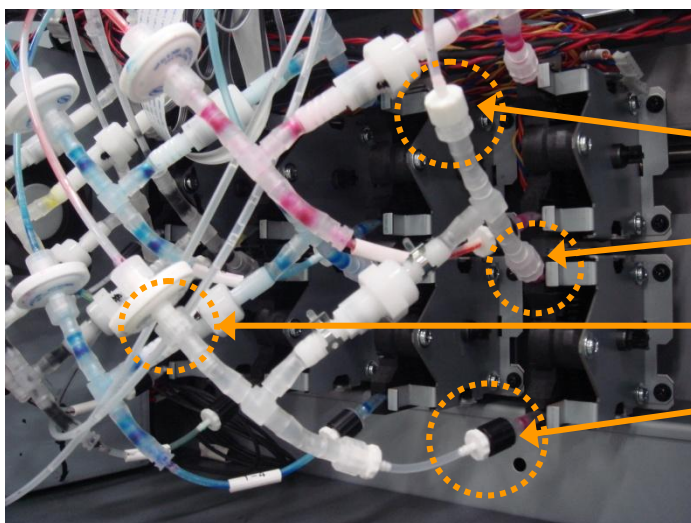


Fig 3-13. Attaching the check valve (#10)

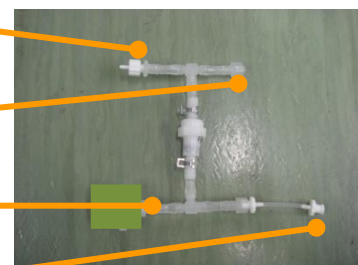


Fig 3-14. Check valve (#10)

#### Ink Replacement 4. Filter Replacement

Replace the filter for any paths that use white ink or where the ink color will change.

The required number and location of filters to be replaced may vary depending on the type of ink replacement. For more information, please refer to "6. Appendix - Table 6-3 Work Checklist (Ink Replacement) - Work Checklist (5) Column".

1. Replace the filter (#9) with a new one as indicated in the following diagram

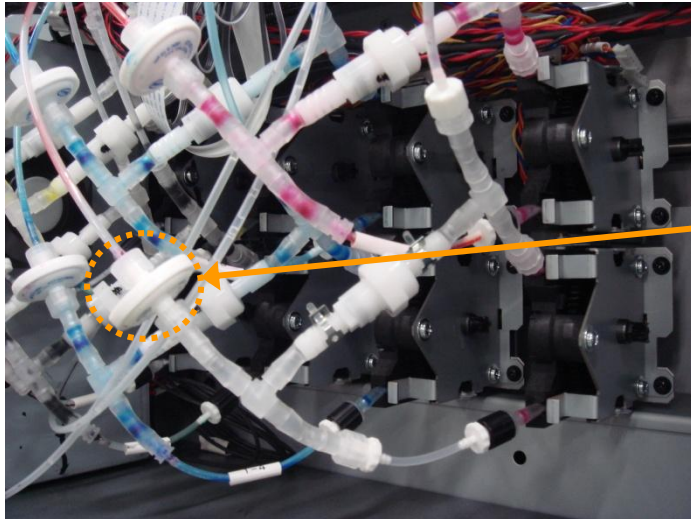


Fig 3-15. Attaching the filter (#9)

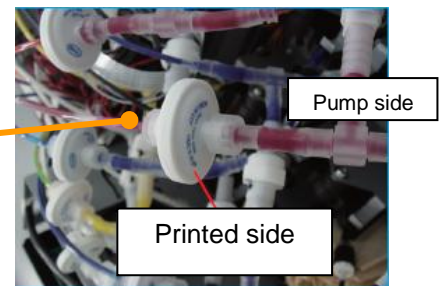


Fig 3-16. Filter (#9)

#### Ink Replacement 5. Initial Filling of the Replacement Ink

Select the ink set to be used and perform initial filling.

The initial filling process is the same as for previous models.

1. Perform initial filling in accordance with "7.3 Initial Filling of Ink" in the setup guide.

#### 4. Cleaning Procedure for Short-Term Storage

In this section we introduce the cleaning procedure for short-term storage for JV400LX series with firmware version 2.30 or later. This is mainly used for cleaning before storage during transport to exhibitions.

##### Limits to Storage Conditions

This cleaning procedure is mainly used to protect ink paths during transportation to events such as exhibitions.

It places the unit into a state which allows short-term storage. However, there are limits to the types of storage conditions that are acceptable.

This process is only applicable if the following two storage conditions are satisfied.

**Storage Condition 1: The storage time including transportation is within 2 weeks.**

**Storage Condition 2: The storage temperature including during transportation does not exceed 40°C.**

If the storage period exceeds two weeks or the storage temperature exceeds 40°C, nozzle may be clogged after the machine is returned to service.

##### Preparation of Components

Please refer to "2. Required Components - Table 2-7 Required Components" and prepare all components required for your particular ink type and ink set.

## Work Procedure

Please follow the steps below to perform cleaning for short-term storage.

The entire procedure consists of cleaning (Cleaning for short-term storage steps 1 and 2), storage (steps 3 to 6), and recovery after storage (steps 7 to 9).

When you exclude the storage period, the entire work procedure should take around 3 hours and 10 minutes.

The work before storage (Cleaning for short-term storage steps 1 to 6) should take around 2 hours and 30 minutes.

The work after storage (Cleaning for short-term storage steps 7 to 9) should take around 40 minutes. For more information regarding the approximate time required for each ink set, please refer to "6. Appendix - Table 6-4 Work Checklist (Cleaning for Short-Term Storage)".



Fig 4-1. Workflow of Cleaning for short-term storage

## Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

The work procedure in "Cleaning for short-term storage step 1" is the same as in "3. Ink Replacement Procedure - Ink replacement step 1".

### **Special Cases**

**When using 4-color or 6-color printing (the ink set without white ink) and the storage period is limited to within one week**, the unit can be stored after completing steps 4 to 8 without the need to perform cleaning.

When returning the unit to service, perform hard cleaning at least once without any initial filling.

### Work Preparation

- Please ensure that the firmware has been upgraded to version 2.30 or later.
- Empty the waste ink tank and clear its level information.
  - ◆ For more information regarding how to clear the waste ink tank level indicator, please refer to "5. Supplementary Information - Supplement 1. Clearing waste ink tank Level Indicator Information".
- Cover the station surroundings with a material such as paper towels. This protects against ink dripping from the print head.

### Precautions During Work

- **Always wear protective goggles and gloves when handling ink or cleaning liquid.**
- Do not leave it for over two hours in a state where the ink is discharged.
- To prevent waste liquid from dripping out of the waste ink tank, please pay attention to the level of waste ink.
- Do not leave it for a long time in a state where the carriage is out.

### Cleanup After Work

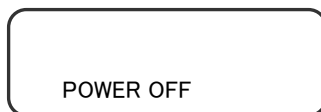
- Empty the waste ink tank and clear its level information.
- Remove coverings such as paper towels from around the station.
- Replace the cover that was removed during the work procedure. (Rear cover LU, Head cover Assy)

### Cleaning for Short-Term Storage Step 1. Perform Ink Discharge and Clean the Path

Use the Ink replacement/discharge menu to discharge the ink. Then use the Ink replacement/discharge menu to clean the ink path. The work procedure is the same as in "3. Ink Replacement Procedure - Ink replacement step 1".

Please perform cleaning while referring to "3. Ink Replacement Procedure - Ink Replacement 1. Perform Ink Discharge and Clean the Path".

1. Perform cleaning while referring to "Ink Replacement 1. Perform Ink Discharge and Clean the Path".
2. Turn the power off when cleaning is complete.



3. Turn the main power off.

### Cleaning for Short-Term Storage Step 2. Filter Replacement

Replace the filters in all 8 paths.

1. Replace the filter (#9) with a new one as indicated in the following diagram.

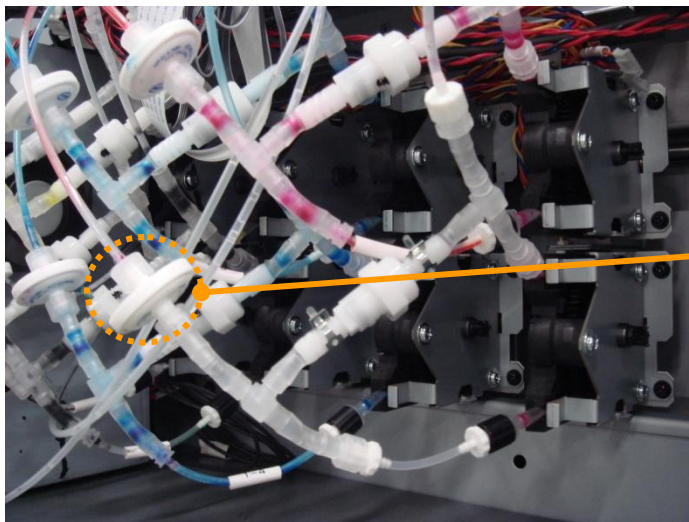


Fig 4-2. Attaching the Filter (#9)

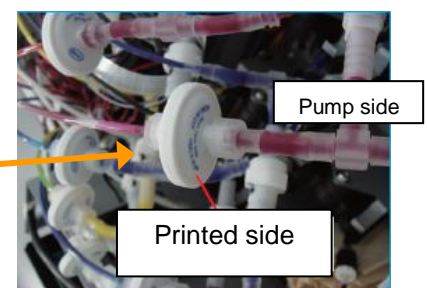


Fig 4-3. Direction of the Filter (#9)



### Cleaning for Short-Term Storage Step 3. Filling with Maintenance liquid 04

Fill the dampers and printing heads with Maintenance liquid 04 for all 8 paths.

1. Move the carriage by hand so that it is above the wiper.

**The following steps 2 to 9 show Maintenance liquid 04 filling process for 1 damper (2 paths).  
Repeat steps 2 to 9 to fill all 4 dampers (8 paths).**

2. Remove one side of the ink supply path at the top of the damper

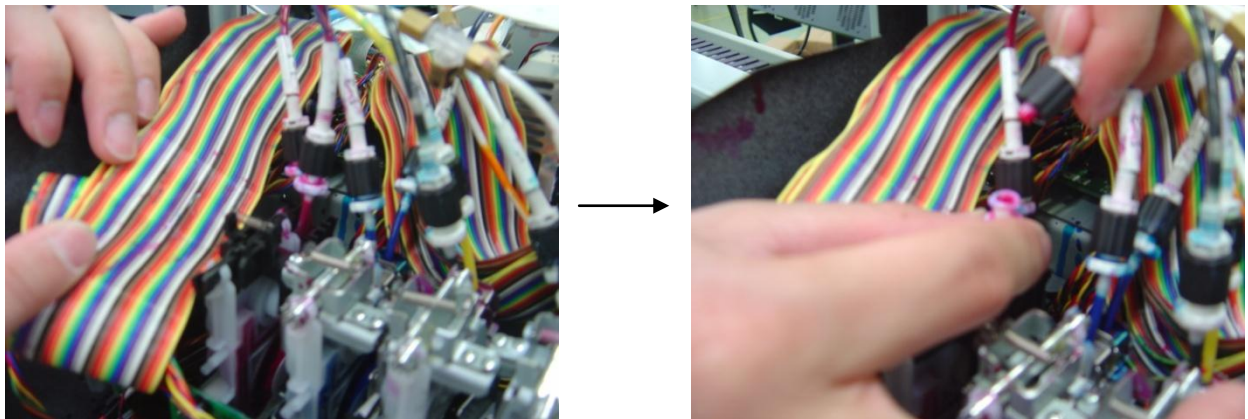


Fig 4-4. Removal the supply path from the damper

3. Open the air purge valve.

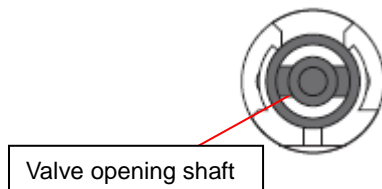


Fig 4-5. Air purge valve is opened  
(Valve opening shaft: horizontal)

4. Attach the cleaning solution filling syringe ASSY (#4) to the section of the supply path that was disconnected.

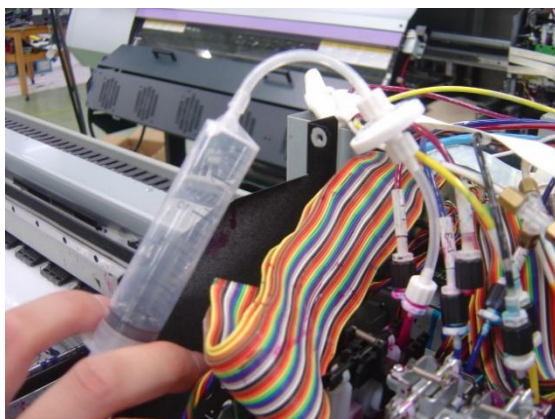


Fig 4-6. Attaching the cleaning solution filling syringe ASSY(#4)

## Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

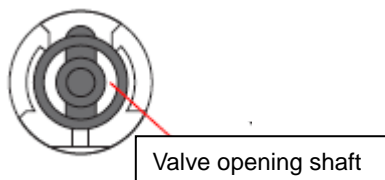
5. Fill the damper with maintenance liquid 04 in the following manner.

- (1) Remove the syringe from the fitting in front of the cleaning solution filling syringe ASSY (#4) filter.
- (2) Suck maintenance liquid 04 into the removed syringe from the maintenance liquid 04 bottle (#12).
- (3) Attach the syringe back to the fitting in front of the filter.
- (4) Slowly push maintenance liquid 04 out of the syringe (around 0.5 ml per second) to fill the damper with maintenance liquid 04.
- (5) Repeat steps (1) to (4) until the maintenance liquid 04 reaches the top of the damper.



**Fig 4-7. Filling cleaning solution 04 to the damper**

6. Close the air purge valve.



**Fig 4-8. Air purge valve is closed  
(Valve opening shaft: vertical)**

7. Fill the print head with maintenance liquid 04 in the following manner.

- (1) Remove the syringe from the fitting in front of the cleaning solution filling syringe ASSY (#4) filter.
- (2) Suck maintenance liquid 04 into the syringe from the maintenance liquid 04 bottle (#12).
- (3) Attach the syringe back to the fitting in front of the filter.
- (4) Slowly push maintenance liquid 04 out of the syringe (around 0.5 ml per second) to fill the print head with maintenance liquid 04.
- (5) Repeat steps (1) to (4) until the maintenance liquid 04 drips out of the nozzle surface.

8. Remove the washing liquid filling syringe ASSY (#4) and re-attach the supply path to return it to its original configuration.

9. Repeat steps 2 to 8 for the other side of that damper's supply path.

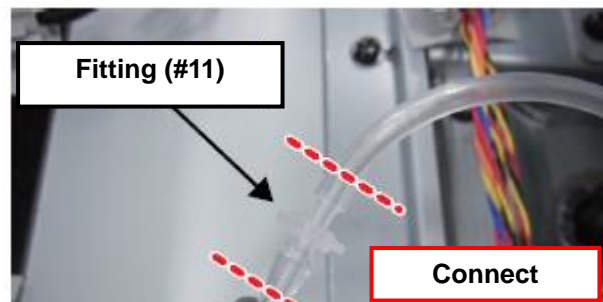
10. Repeat steps 2 to 9 for the remaining three dampers.

### **Cleaning for Short-Term Storage Step 4. Closing the Discharge Path**

## Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

In order to accumulate maintenance liquid 04, connect the cap 1 and cap 2 discharge paths to create a blockage.

1. Refer to "4.6 fitting Removal" in the setup guide and perform the procedure in reverse. Pull out the two discharge paths from the waste ink tank and connect them with a fitting (#11).

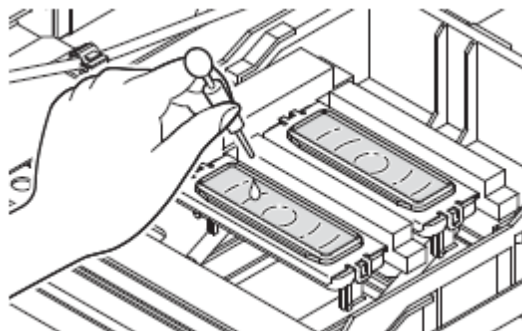


**Fig 4-9. Attaching the fitting (#11)**

### **Cleaning for Short-Term Storage Step 5. Filling Caps with Maintenance Liquid 04**

After blocking off the discharge paths, completely fill the caps with maintenance liquid 04.

1. Move the carriage manually to the left side.
2. Use a tool such as an eye dropper to suck some maintenance liquid 04 out of the maintenance liquid 04 bottle (#12) and completely fill the two caps.



**Fig 4-10. Fill up the cap with cleaning solution 04**

3. Move the carriage manually to the cap position and attach the caps.

## Cleaning for Short-Term Storage Step 6.

## Head Stopper Installation

Secure the head while it is capped.

1. Refer to "4.5 head stopper Removal" in the setup guide and perform the procedure in reverse. Attach the head stopper and secure the head.

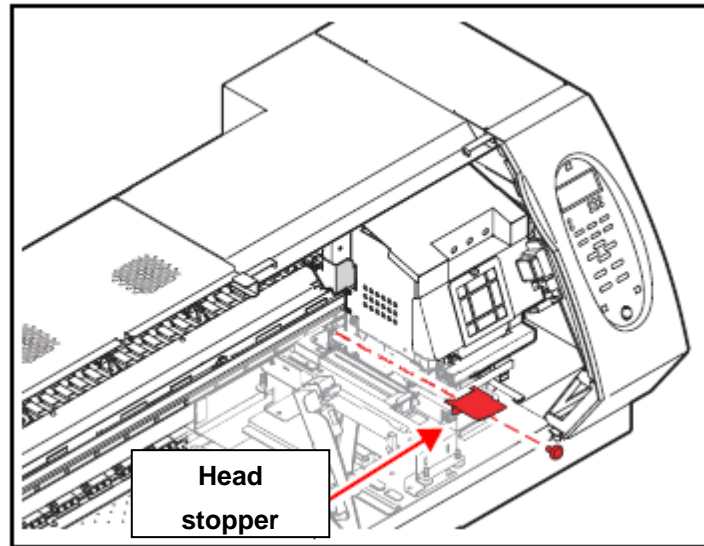


Fig 4-11. Attaching the head stopper

## Storage Period Including Transport

The maximum storage period is around 2 weeks. (This is reduced to one week in some special cases where ink remains in the unit.)

Take the unit out of storage before this period is exceeded and return it to service by following the procedure after step 6.

Exceeding the maximum storage period may cause nozzles to be clogged after the unit has been returned to service. Be sure not to store the unit at a location with a temperature of over 40°C.

### Cleaning for Short-Term Storage Step 7.

### Head Stopper Removal

Unsecure the head.

1. Refer to "4.5 head stopper Removal" in the setup guide and perform head stopper removal.

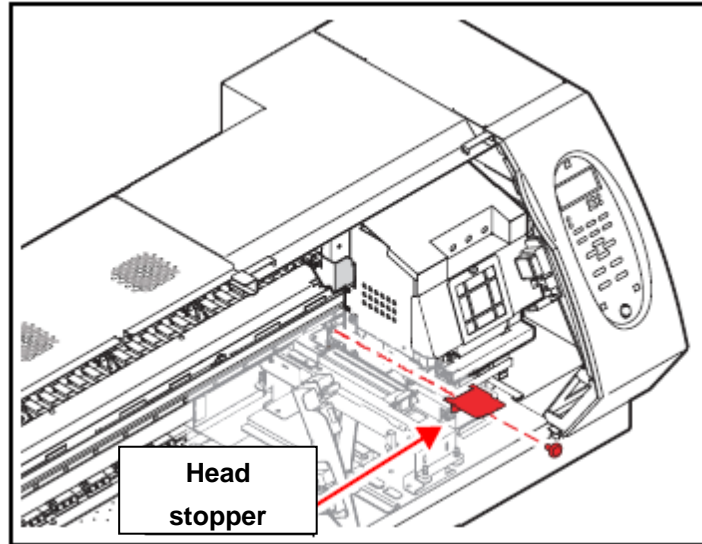


Fig 4-12. Head stopper removal

### Cleaning for Short-Term Storage Step 8.

### Opening the Discharge Path

Remove the cap 1 and cap 2 discharge paths that were connected before storage. Return the discharge paths to their original configuration.

1. Refer to "4.6 fitting Removal" in the setup guide, remove the fitting (#11), and insert the discharge paths into the waste ink tank.

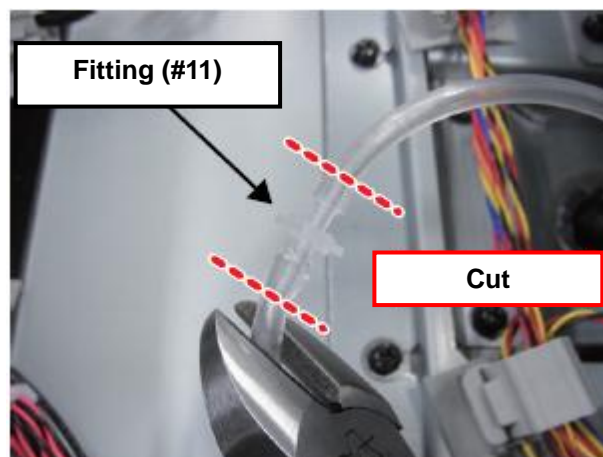


Fig 4-13. Fitting (#11) removal

<b>Cleaning for Short-Term Storage Step 9. Initial Filling of the Original Ink</b>
--

Select an ink set with the original type of ink used in your unit and perform initial filling.  
The initial filling process is the same as for previous models.

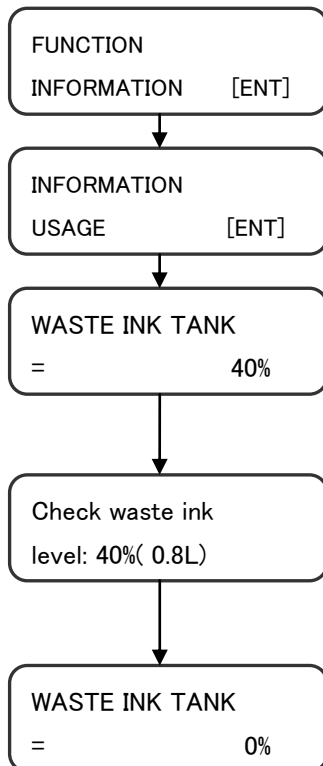
1. Perform initial filling in accordance with "7.3 Initial Filling of Ink" in the setup guide.

## 5. Supplementary Information

In this section we will introduce supplementary information regarding the ink replacement procedure and the cleaning procedure for short-term storage.

### Supplement 1. Clearing Waste ink tank Level Indicator Information

Clear the waste ink tank level indicator information to show 0%.



1. Select [ WASTE INK TANK ] from the [ INFORMATION ] -> [ USAGE ] options and press the MAINT key.

2. Use the up and down keys (▲▼) to change the "Level" to 0% and press the ENTER key.

3. The waste ink tank level indicator information will now show 0%.

### Supplement 2. Recovering the cleaning and maintenance solution from users.

When replace the ink from LX100 to LX101, recover flushing liquid and maintenance liquid as below.

- 1 Recover Flushing liquid 02 cartridge and maintenance solution 02 from users.
- 2 Recover cleaning solution 08(γ-solution)from users.

※Cleaning solution which is recovered is disposed at the field according to the waste disposal law, related laws and regulations for local.



# Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

## 6. Appendix

**Table 6-1-1. Component Checklist (Ink Replacement Procedure: LX100→LX101, LX101→LX101)**

From(befor replacement)	Ink type	LX100						LX101					
	Ink set name	4 color			4 color+W			4 color		6 color		6 color+W	
	Ink set color	MMCCYYKK	MMCCYYKK	MMCCYYKK	MMCCYKWW	MMCCYKWW	MMCCYKWW	MMCCYYKK	MMCCYYKK	MOCGYMKC	MOCGYMKC	MOCGYKWW	MOCGYKWW
To(after replacement)	Ink type	LX101						LX101					
	Ink set name	4 color	6 color	6 color+W	4 color	6 color	6 color+W	6 color	6 color+W	4 color	6 color+W	4 color	6 color
	Ink set color	MMCCYYKK	MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYMKC	MOCGYKWW	MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYKWW	MMCCYYKK	MOCGYMKC
Check of work													
(1) Number of the path for cleaning		8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path
(2) Circulation path cleaning		×	○	○	○	○	×	○	○	○	○	○	○
(3) Removal/attaching UISS path		×	○ Remove 8	○ Remove 8	○ Attach 4	○ Remove 4	○ Remove 4	○ Remove 8	○ Remove 8	○ Attach 8	×	○ Attach 8	×
(4) Replacement check valve		×	○ 4 points	○ 5 points	○ 3 points	○ 5 points	○ 2 points	○ 4 points	○ 5 points	○ 4 points	○ 3 points	○ 5 points	○ 3 points
(5) Replacement filter		×	○ 4 points	○ 5 points	○ 3 points	○ 5 points	○ 4 points	○ 4 points	○ 5 points	○ 4 points	○ 3 points	○ 5 points	○ 3 points
Requirement parts (quantity)													
C-FL003-Z22-1-KA	Flushing liquid 03 (220ml/cartridge)	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs
C-ML003-Z-K1-1-KW ( except EU) C-ML003-Z-K1-1-KE ( for EU area)	Washing liquid 03 Maintenance kit (200ml/bottle)	×	1 pc	1 pc	1 pc	1 pc	×	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
MP-M014439	JV400 cleaning kitⅡ	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit
MP-M014397	Check valve ASSY	×	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY
SPA-0187	W filter kit ( x 2 filters)	×	2 kit	3 kit	2 kit	3 kit	2 kit	2 kit	3 kit	2 kit	2 kit	3 kit	2 kit
MP-M014428	Maintenance liquid 04 (200ml/bottle)	×	×	×	×	×	×	×	×	×	×	×	×
M700782	φ2 rubber plug ※ for UISS path	×	8 pcs	8 pcs	×	4 pcs	4 pcs	8 pcs	8 pcs	×	×	×	×
MP-M014439 : JV400 cleaning kitⅡ (components)													
M012545	(1)Cleaning solution filling syringe Assy	×	1 Assy	1 Assy	1 Assy	1 Assy	×	1 Assy	1 Assy	1 Assy	1 Assy	1 Assy	1 Assy
SS-20ESZ	(2)Syringe	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
1080249	(3)Tube, Supply、φ2 : N	×	1 pc	1 pc	1 pc	1 pc	×	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
6-586-07	(4)Silicon rubber tube (2*4)50M	×	1 pc	1 pc	1 pc	1 pc	×	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
M700782	(5)φ2 rubber plug ※For circulation path	×	2 pcs	2 pcs	2 pcs	2 pcs	×	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs
7-653-01	(6)Non-woven fabric	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack
VFI236	(7)Fitting	×	×	×	×	×	×	×	×	×	×	×	×
M700727	(8)Damper rubber plug 2	×	2 pcs	2 pcs	2 pcs	2 pcs	×	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs
MP-M014397 : Check valve ASSY (components)													
M014383	(1)Check valve Assy	×	4 Assy	5 Assy	3 Assy	5 Assy	2 Assy	4 Assy	5 Assy	4 Assy	3 Assy	5 Assy	3 Assy

※ ○: Required, × : Not required



# Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

**Table 6-1-2. Component Checklist (Ink Replacement Procedure: LX100→LX100, LX101→LX100)**

From(befor replacement)	Ink type	LX100		LX101					
	Ink set name	4 color	4 color+W	4 color		6 color		6 color+W	
	Ink set color	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYYKK	MOCGYMKC	MOCGYMKC	MOCGYKWW	MOCGYKWW
To(after replacement)	Ink type	LX100		LX100					
	Ink set name	4 color+W	4 color	4 color	4 color+W	4 color	4 color+W	4 color	4 color+W
	Ink set color	MMCCYKWW	MMCCYYKK	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYKWW
Check of work									
(1) Number of the path for cleaning		8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path
(2) Circulation path cleaning		○	○	×	○	○	○	○	×
(3) Removal/attaching UISS path		○ Remove 4	○ Attach 4	×	○ Remove 4	○ Attach 8	○ Attach 4	○ Attach 8	○ Attach 4
(4) Replacement check valve		○ 3 points	○ 3 points	×	○ 3 points	○ 4 points	○ 5 points	○ 5 points	○ 2 points
(5) Replacement filter		○ 3 points	○ 3 points	×	○ 3 points	○ 4 points	○ 5 points	○ 5 points	○ 4 points
Requirement parts (quantity)									
C-FL003-Z-22-1-KA	Flushing liquid 03 (220ml/cartridge)	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs
C-ML003-Z-K1-1-KW ( except EU) C-ML003-Z-K1-1-KE ( for EU area)	Washing liquid 03 Maintenance kit (200ml/bottle)	1 pc	1 pc	×	1 pc	1 pc	1 pc	1 pc	×
MP-M014439	JV400 cleaning kit II	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit
MP-M014397	Check valve ASSY	1 ASSY	1 ASSY	×	1 ASSY	1 ASSY	1 ASSY	1 ASSY	1 ASSY
SPA-0187	W filter kit (x 2 filters)	2 kit	2 kit	×	2 kit	2 kit	3 kit	3 kit	2 kit
MP-M014428	Maintenance liquid 04 (200ml/bottle)	×	×	×	×	×	×	×	×
M700782	φ2 rubber plug ※ for UISS path	4 pcs	×	×	4 pcs	×	×	×	×
MP-M014439 : JV400 cleaning kit II (components)									
M012545	(1)Cleaning solution filling syringe Assy	1 Assy	1 Assy	×	1 Assy	1 Assy	1 Assy	1 Assy	×
SS-20ESZ	(2)Syringe	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
1080249	(3)Tube, Supply, φ2 : N	1 pc	1 pc	×	1 pc	1 pc	1 pc	1 pc	×
6-586-07	(4)Silicon rubber tube (2"4)50M	1 pc	1 pc	×	1 pc	1 pc	1 pc	1 pc	×
M700782	(5)φ2 rubber plug ※For circulation path	2 pcs	2 pcs	×	2 pcs	2 pcs	2 pcs	2 pcs	×
7-653-01	(6)Non-woven fabric	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack	1 pack
VF1236	(7)Fitting	×	×	×	×	×	×	×	×
M700727	(8)Damper rubber plug 2	2 pcs	2 pcs	×	2 pcs	2 pcs	2 pcs	2 pcs	×
MP-M014397 : Check valve ASSY (components)									
M014383	(1)Check valve Assy	3 Assy	3 Assy	×	3 Assy	4 Assy	5 Assy	5 Assy	2 Assy

※ ○:Required, × :Not required

## Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

**Table 6-2. Component Checklist (Cleaning Procedure)**

Ink type		LX101			LX100	
Ink set name		4 color	6色	6 color+W	4 color	4 color+W
Ink set color		MMCCYYKK	MOCGYMKC	MOCGYKWW	MMCCYYKK	MMCCYKWW
Check of work						
(1) Number of the path for cleaning		8 path	8 path	8 path	8 path	8 path
(2) Cleaning circulation path		×	×	○	×	○
(3) Replacement filter		○ 8 points	○ 8 points	○ 8 points	○ 8 points	○ 8 points
Requirement parts (quantity)						
C-FL003-Z-22-1-KA	Flushing liquid 03 (220ml/cartridge)	8 pcs	8 pcs	8 pcs	8 pcs	8 pcs
C-ML003-Z-K1-1-KW (except EU) C-ML003-Z-K1-1-KE (for EU area)	Washing liquid 03 Maintenance kit (200ml/bottle)	×	×	1 pc	×	1 pc
MP-M014439	JV400 cleaning kit II	1 kit	1 kit	1 kit	1 kit	1 kit
MP-M014397	Check valve ASSY	×	×	×	×	×
SPA-0187	W filter kit (x 2 filters)	4 kit	4 kit	4 kit	4 kit	4 kit
MP-M014428	Maintenance liquid 04 (200ml/bottle)	1 pc	1 pc	1 pc	1 pc	1 pc
M700782	φ2 rubber plug ※ for UISS path	×	×	×	×	×
MP-M014439 : JV400 cleaning kit II (components)						
M012545	(1)Cleaning solution filling syringe Assy	×	×	1 Assy	×	1 Assy
SS-20ESZ	(2)Syringe	1 pc	1 pc	1 pc	1 pc	1 pc
1080249	(3)Tube, Supply, φ2 : N	×	×	1 pc	×	1 pc
6-586-07	(4)Silicon rubber tube (2"4)50M	×	×	1 pc	×	1 pc
M700782	(5)φ2 rubber plug ※For circulation path	×	×	2 pcs	×	2 pcs
7-653-01	(6)Non-woven fabric	1 pack	1 pack	1 pack	1 pack	1 pack
VFI236	(7)Fitting	1 pc	1 pc	1 pc	1 pc	1 pc
M700727	(8)Damper rubber plug 2	×	×	2 pcs	×	2 pcs
MP-M014397 : Check valve ASSY (components)						
M014383	(1)Check valve Assy	×	×	×	×	×

※ ○ : Required, × : Not required

# Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

**Table 6-3-1. Work Checklist (Ink Replacement: LX100→LX101, LX101→LX101 )**

From(befor replacement)	Ink type	LX100						LX101					
	Ink set name	4 color			4 color+W			4 color		6 color		6 color+W	
	Ink set color	MMCCYYKK	MMCCYYKK	MMCCYYKK	MMCCYKWW	MMCCYKWW	MMCCYKWW	MMCCYYKK	MMCCYYKK	MOCGYMKC	MOCGYMKC	MOCGYKWW	MOCGYKWW
To(after replacement)	Ink type	LX101						LX101					
	Ink set name	4 color	6 color	6 color+W	4 color	6 color	6 color+W	6 color	6 color+W	4 color	6 color+W	4 color	6 color
	Ink set color	MMCCYYKK	MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYMKC	MOCGYKWW	MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYKWW	MMCCYYKK	MOCGYMKC
Check of work													
(1) Number of the path for cleaning		8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path
(2) Cleaning circulation path		×	○	○	○	○	×	○	○	○	○	○	○
(3) Attaching/removal UISS path		×	○ Remove 8	○ Remove 8	○ Attach 4	○ Remove 4	○ Remove 4	○ Remove 8	○ Remove 8	○ Attach 8	×	○ Attach 8	×
			MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYMKC	MOCGYKWW	MOCGYMKC	MOCGYKWW	MMCCYYKK		MMCCYYKK	
(4) Replacement check valve		×	○ 4 points	○ 5 points	○ 3 points	○ 5 points	○ 2 points	○ 4 points	○ 5 points	○ 4 points	○ 3 points	○ 5 points	○ 3 points
			MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYMKC	MOCGYKWW	MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYKWW	MMCCYYKK	MOCGYMKC
(5) Replacement filter		×	○ 4 points	○ 5 points	○ 3 points	○ 5 points	○ 4 points	○ 4 points	○ 5 points	○ 4 points	○ 3 points	○ 5 points	○ 3 points
			MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYMKC	MOCGYKWW	MOCGYMKC	MOCGYKWW	MMCCYYKK	MOCGYKWW	MMCCYYKK	MOCGYMKC
Standard time for working													
Work 1. Discharge and Clean Main path : 1hr.15min.		1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.
Work 1. Discharge and Clean Circulation path : 30min.		×	30min.	30min.	30min.	30min.	×	30min.	30min.	30min.	30min.	30min.	30min.
Work 2. Attach or Remove UISS path : 3min. / 1 path		×	12min.	12min.	6min.	6min.	6min.	12min.	12min.	12min.	×	12min.	×
Work 3. Replace Check valve : 3min. / 1 valve		×	12min.	15min.	9min.	15min.	6min.	12min.	15min.	12min.	9min.	15min.	9min.
Work 4. Replace Filter : 3min. / 1 filter		×	12min.	15min.	9min.	15min.	12min.	12min.	15min.	12min.	9min.	15min.	9min.
Work 5. Perform Initial Filling : 30min.		30min.	30min.	30min.	30min.	30min.	30min.	30min.	30min.	30min.	30min.	30min.	30min.
Total time from Work 1. to Work 5.		1hr.45min.	2hr.50min.	3hr.	2hr.40min.	2hr.50min.	2hr.10min.	2hr.50min.	3hr.	2hr.50min.	2hr.30min.	3hr.	2hr.30min.

※ ○:Required, ×:Not required

# Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

**Table 6-3-2. Work Checklist (Ink Replacement: LX100→LX100, LX101→LX100 )**

From(befor replacement)	Ink type	LX100		LX101					
	Ink set name	4 color	4 color+W	4 color		6 color		6 color+W	
	Ink set color	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYYKK	MOCGYMKC	MOCGYMKC	MOCGYKWW	MOCGYKWW
To(after replacement)	Ink type	LX100		LX100					
	Ink set name	4 color+W	4 color	4 color	4 color+W	4 color	4 color+W	4 color	4 color+W
	Ink set color	MMCCYKWW	MMCCYYKK	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYKWW
Check of work									
(1) Number of the path for cleaning		8 path	8 path	8 path	8 path	8 path	8 path	8 path	8 path
(2) Cleaning circulation path		○	○	×	○	○	○	○	×
(3) Attaching/removal UISS path	○ Remove 4	○ Attach 4	×	○ Remove 4	○ Attach 8	○ Attach 4	○ Attach 8	○ Attach 4	
	MMCCYKWW	MMCCYYKK		MMCCYKWW	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYKWW	
(4) Replacement check valve	○ 3 points	○ 3 points	×	○ 3 points	○ 4 points	○ 5 points	○ 5 points	○ 2 points	
	MMCCYKWW	MMCCYYKK		MMCCYKWW	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYKWW	
(5) Replacement filter	○ 3 points	○ 3 points	×	○ 3 points	○ 4 points	○ 5 points	○ 5 points	○ 4 points	
	MMCCYKWW	MMCCYYKK		MMCCYKWW	MMCCYYKK	MMCCYKWW	MMCCYYKK	MMCCYKWW	
Standard time for working									
Work 1. Discharge and Clean Main path : 1hr.15min.		1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.	1hr.15min.
Work 1. Discharge and Clean Circulation path : 30min.		30min.	30min.	×	30min.	30min.	30min.	30min.	×
Work 2. Attach or Remove UISS path : 3min. / 1 path		6min.	6min.	×	6min.	12min.	6min.	12min.	6min.
Work 3. Replace Check valve : 3min. / 1 valve		9min.	9min.	×	9min.	12min.	15min.	15min.	6min.
Work 4. Replace Filter: 3min. / 1 filter		9min.	9min.	×	9min.	12min.	15min.	15min.	12min.
Work 5. Perform Initial Filling : 30min.		30min.	30min.	30min.	30min.	30min.	30min.	30min.	30min.
Total time from Work 1. to Work 5.		2hr.40min.	2hr.40min.	1hr.45min.	2hr.40min.	2hr.50min.	2hr.50min.	3hr.	2hr.10min.

※ ○ : Required, × : Not required

## Instructions for Ink Replacement and Cleaning for Short-Term Storage for JV400LX v2.30

**Table 6-4. Work Checklist (Cleaning for Short-Term Storage)**

Ink type	LX101			LX100	
Ink set name	4 color	6 color	6 color+W	4 color	4 color+W
Ink set color	MMCCYYKK	MOCGYMKC	MOCGYKWW	MMCCYYKK	MMCCYKWW
Check of work					
(1) Number of the path for cleaning	8 path	8 path	8 path	8 path	8 path
(2) Cleaning circulation path	×	×	○	×	○
(3) Replacement filter	○ 8 points	○ 8 points	○ 8 points	○ 8 points	○ 8 points
Standard time for working					
Work 1. Discharge and Clean Main path : 1hr.-15min.	1hr.-15min.	1hr.-15min.	1hr.-15min.	1hr.-15min.	1hr.-15min.
Work 1. Discharge and Clean Circulation path : 30min.	×	×	30min.	×	30min.
Work 2. Filter Replacement : 3min. / 1 filter	24min.	24min.	24min.	24min.	24min.
Work 3. Filling with Maintenance Liquid 04 : 10min.	10min.	10min.	10min.	10min.	10min.
Work 4. Closing the Discharge path : 3min.	3min.	3min.	3min.	3min.	3min.
Work 5. Filling Caps with Maintenance Liquid 04 : 3min.	3min.	3min.	3min.	3min.	3min.
Work 6. Head Stopper Instraction : 3min.	3min.	3min.	3min.	3min.	3min.
Total time from Work 1. to Work 6.	2hr.	2hr.	2hr.-30min.	2hr.	2hr.-30min.
Work 7. Head Stopper Removal : 3min.	3min.	3min.	3min.	3min.	3min.
Work 8. Opening the Discharge path : 3min.	3min.	3min.	3min.	3min.	3min.
Work 9. Initial filling of the Original Ink : 30min.	30min.	30min.	30min.	30min.	30min.
Total time from Work 7. to Work 9.	40min.	40min.	40min.	40min.	40min.

※ ○ : Required, × : Not required

## 7. Revision History

No.	Version	Description	Date of update	Modified by
1	10	First draft. It is English Edition of D901966-11.	2013/7/8	3P.FW.Ichikawa
2	10	Correction of contents in "Required Components" and "Component Checklist" tables. Damper rubber plug 2 is needed to clean the circulation path..	2013/7/10	3P.FW.Ichikawa
3	10	Correction of special cases in "4. Cleaning Procedure for Short-Term Storage". The ink set "6 color" has been added	2013/7/10	3P.FW.Ichikawa
4	10	Addition of contents in "Required Components", "Component Checklist", and the "Work Checklist" tables. The ink set "6 color" has been added	2013/7/10	3P.FW.Ichikawa
5	10	Modification of part name contained within "Required Components", "Component Checklist", and the "Work Checklist" tables. Cleaning Solution 01/02/03 cartridge → Flushing Liquid 01/02/03 cartridge Cleaning Solution 03 Maintenance Kit → Washing Liquid 03 Maintenance Kit Maintenance solution 04 → Maintenance Liquid 04	2013/7/12	3P.FW.Ichikawa
6	11	Update Revision is updated to 11 from 10. English Edition "D902025-11" is same to Japanese Edition "D901966-12".	2013/7/12	3P.FW.Ichikawa