ColorWay
www.colorway.com

Installation instruction (v.1.0 EN)
Continuous Ink Supply System (CISS). Item codes:
H364CC-X.X - CISS for inkjet printers and MFU HP: DeskJet: 3070/3520/3522/3524; PhotoSmart: 5510/5515/5520/5524/6510/6520/B010/B109/B110/B209/B210; OfficeJet: 4620/4622
H178CC-X.X - CISS for inkjet printers and MFU HP: PhotoSmart 551(B111b) /5515 /6510 /7510 /B010 /B109 /B110 /B209 /B210; DeskJet: 3070
H655CC-X.X - CISS for inkjet printers and MFU HP: DeskJet: 3525/4615/4625/5525/6525

Box content:
1. 4-colours ink tank set with rubber plugs – 1 pc.
2. Cartridges set (4 pcs) with chips – 1 pc.
3. 4-channel silicone tube – 1pc.
4. Rubber lining for cartridges - 1 set.
5. A straight silicone tube clincher – 1 pc.
6. T- shaped clincher– 1 pc.
7. Tube clincher "clip" - 3 pcs.
8. Syringe - 4 pcs.
9. Needle - 4 pcs.
10. Set of double-sided tape - 1 set.
11. Binder - 1pc.
12. Installation manual - 1 pc.
13. Gloves – 1 pare.

Inks optionally: code-0.0 - (without inks), code-4.5(P) - (4 bottles of inks and each 50 ml(P-with one pigment black ink)), code-4.1(P) - (4 bottles of inks and each 100 ml(P-with one pigment black ink).

Recommended ink:

Black ink on choices: ***CW-HP360BK*** *- pigmented inks (not be mixed with CW-HW350BK);* ***CW-HW350BK*** *- dye ink (not be mixed with CW-HP350BK). Coloured -* ***CW-HW350C; CW-HW350M; CW -HW350Y***

The exterior product view and bundling may differ. Drawings and photos are presented in the manual to understand the general installation and operation process of the CISS. The manufacturer reserves the right to change product specifications, designs and bundling without prior notice.

1. Installation preparation

Installation of CISS requires technical information how to install it so we advise you to read instruction before installation.

Before installation please check the whole system and box content.

During the period of CISS usage please do not touch chips and printing heads of original cartridges, do not let dust and liquids to make them broken.

1.1. Before installation of CISS makes sure the printer is in working condition: make sure the printer works well with original cartridges and paper supply mechanism is fine. If the printer is new and it is been never used before so please go to p.1.4.

! *Reminder! The fact that in a printer is used non original consumables can be used as a reason of warranty cancelation. Make sure that your printer is compatible with this system (list of compatible printer models is on a side label of box).*

1.2. Colors sequence of cartridge bloc and external ink tanks may vary. Before installation and filling of CISS it is necessary to check the accuracy of colors sequence, for this check the printer carriage and compare with cartridges bloc and external ink tanks. If it is necessary replace stickers that refer to colors on tanks and rubber caps in respective sequence. Also it is necessary to replace cartridge in accurate sequence, for this remove connector that is connected with silicone tube from the cartridges, put cartridge in the accurate place and get connector back.

1.3. Please print nozzles checking test or test page to check printer workability (see printer manual, MFU). If test is positive so please start CISS installation. If result is negative so please follow the recommendations on cleaning printing head via software of printer (See printer manual, MFU). **Please note: in some printers and MFU with partial installation of software (only drivers is installed), printer serive settings might be absent.**

1.4. Get straight a silicone tube, it should be in fine working condition. Let CISS to lie for a while for getting room temperature.

1.5. All procedures are recommended to be organized in a way to avoid getting inks on furniture, floor and clothes

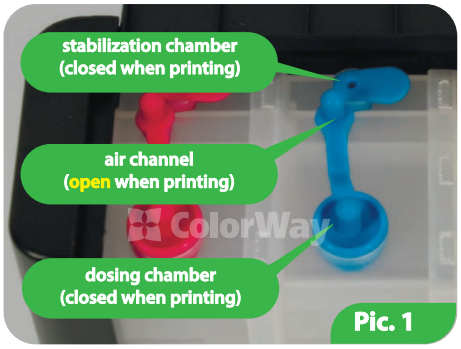
! *Attention! If previously you have been using low quality inks or you change now pigment inks into dye inks or dye inks into pigment inks. In this case please clean a printing head before printing with a special cleaning liquid. If you have been using original inks or inks of TM ColorWay in this case no need to clean printing head.*

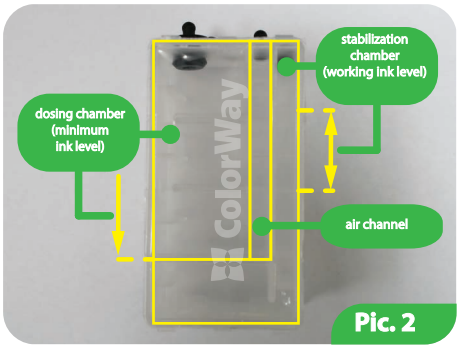
3. Ink tank filling

In these CISS uses a new improved design of ink tanks. Each of ink tank has three chambers (dosing, stabilization, air channel) (Pic. 1 and 2), it is important to fill the ink tank correctly and monitor ink levels, it for the subsequent correct work of CISS.

2.1. Remove the panel from the back of the ink tanks and open the top of the decorative cover of the ink tank unit (Pic. 3, 4).

2.2. Open large rubber plug of the dosing tank capacity, use a syringe with a needle to fill to the dosing camera 65 ml. ink, close the rubber plug. (Pic. 5-9).



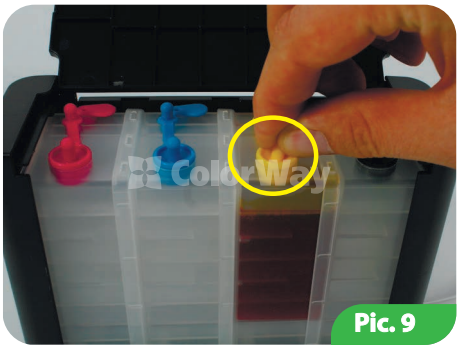


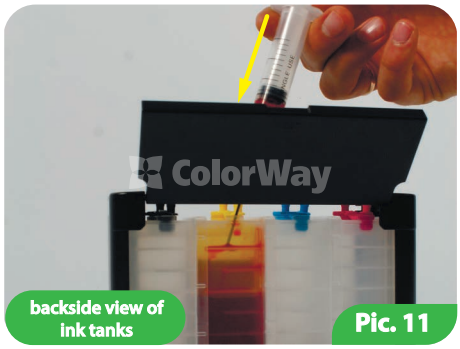
2.3. Open small rubber plug of the stabilization camera, using a syringe with a needle fill 20 ml. ink. (Pic. 10, 11). Then close the plug and incline the container itself, to filled the bottom of the camera by ink. (Pic. 12). Reopen rubber plug of the stabilization camera and refill it, to ink were in the working range. (Pic. 13). Close the rubber plug. (Pic. 14).

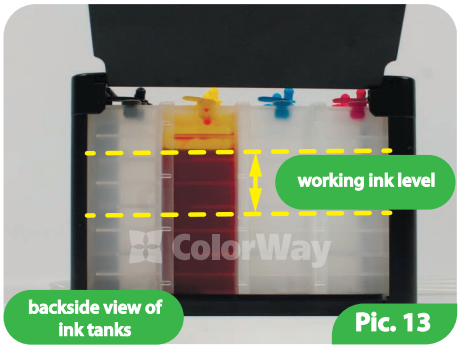
2.4. Take the clean syringe with needle and similarly fill all other ink tanks of the CISS.

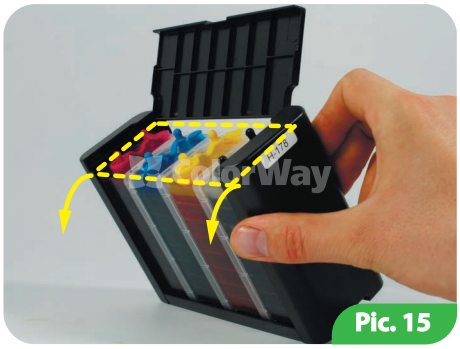
2.5. To avoid getting the air into the compartment of ink tank, you must close all the rubber plugs and tilt the ink tank unit slightly forward, left and right after filling (Pic. 15-17).

2.6. Open the small rubber plug of air channel, in the operation these holes should be open and all others closed. (Pic. 18). You can't refill the ink to the ink tank using the air channel.



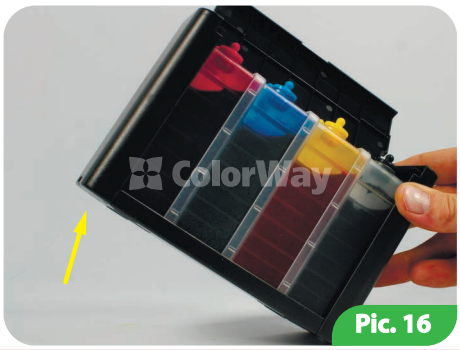


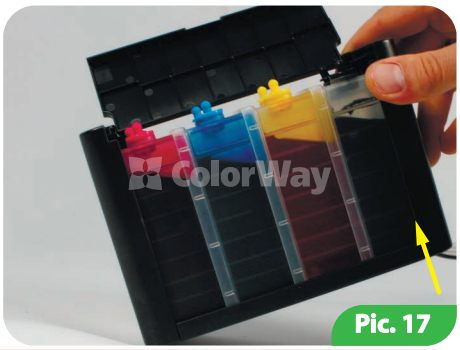




2.7. During the operation of CISS, you should control the availability of ink in the dosing chambers (Pic. 19), if the dosing chamber will be empty, ink will be spent from the stabilization chamber, in this way you should to refill ink tanks again.

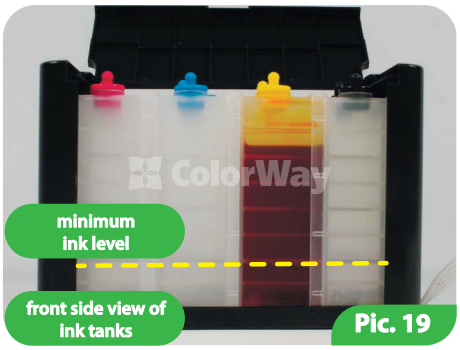
2.8. For refilling the dosing chamber, close the cork of air channel, open the cork of dosing chamber and refill necessary amount of ink. Do not open all of the corks at the same time.





Note: Do not place ink tanks higher than level of cartridges (printing head) it may cause leakage. Due to excess pressure ink flows into the printer and may spoil printing head and electronic contacts. Keep the ink tanks on the same level with the printer.

Working position of the rubber plugs ink tanks: the camera dosing and stabilization - is closed; the air chanel - is open.



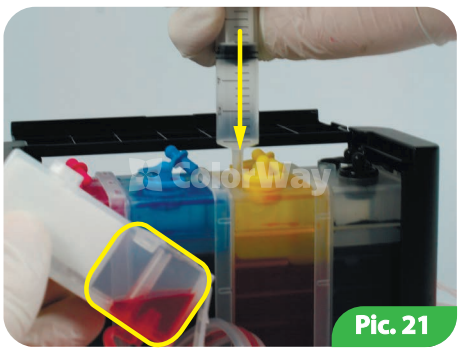
3. System Pumping

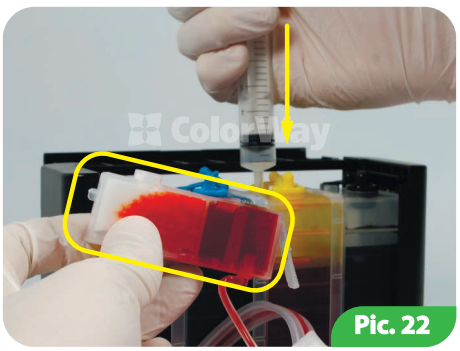
During the first installation of system it is important to organize its pumping: fill a silicone tube and cartridges with ink.

3.1. Take one of the system cartridge and turn it in a way cartridge nozzle is up, then remove orange cap from the cartridge (Pic. 20). During pumping the nozzle should be up all the time.

3.2. Put an air in a syringe and then put it in a small hole (air channel) of external ink tank.

3.3. Slowly put an air in a tank (during this a large hole should be closed). You can see how ink flows from silicone tube to the cartridge. (Pic. 21; 22). When cartridge is filled completely with ink and cartridge nozzle gets the respective color you may stop pumping (Pic. 23) If it is necessary you may pull a bit a syringe plunger (1 cm) in order to remove excessive ink.





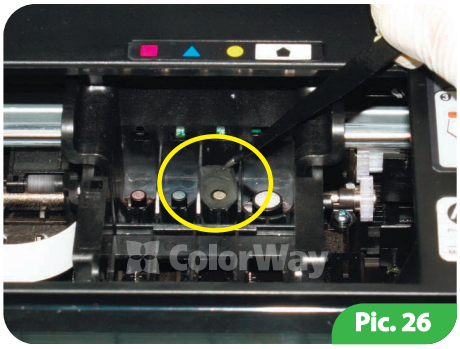
3.4. Put an orange cap on the cartridge (Pic. 24).
3.5. Take a clean syringe and pump in the same way other cartridges.
3.6. Don't get too high or low cartridges over ink tanks during installation since it may cause outflow or excess. If it is necessary to make you may pinch a silicone tube with binder. (Pic. 25).

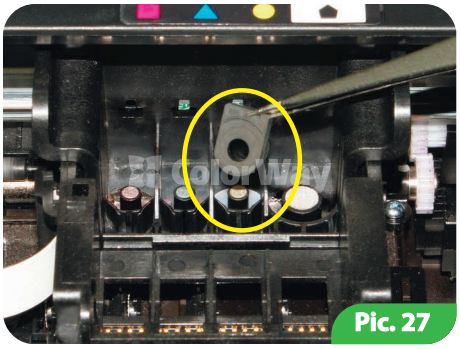
For re-injection of the system when cartridges of CISS are empty or foam rubber is filled with ink.
3.7. Get ink in a syringe of respective color and put on a needle on a syringe.
3.8. Bend a silicone tube in order to avoid ink pouring from the ink tanks.
3.9. Disconnect L-shaped connector with silicone tube from the cartridge. During this an orange cap should be on the cartridge.
3.10. Through the filling hole slowly fill the cartridge in a way a rubber foam absorbs all ink untill cartridge is full.
3.11. Connect L-shaped connector with silicone tube to the cartridge.
3.12. If it is necessary please repeat pumping for other cartridges and then unclench a silicone tube.

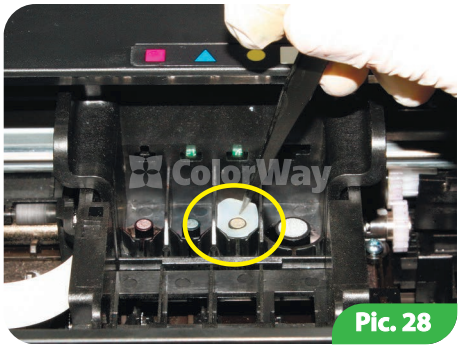
5. CISS installation, a silicone tube laying

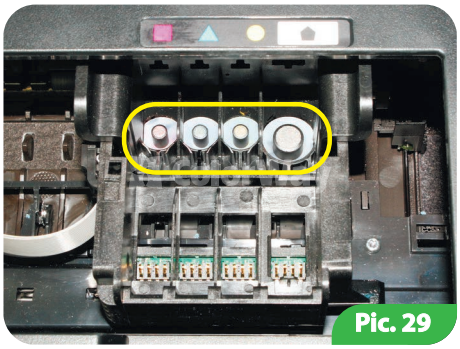
Before you start to fix the tube, you need to clearly understand the principle of its movement during the printer operation, as well as to understand the basic fixing principles:
Rule № 1: The length of the tube should be enough for free movement of the printhead from the extreme right – to the extreme left position;
Rule № 2: The tube can bend and touch the printer itself during the moving of print head, but the tube should not get stuck between moving and stationary printer parts!

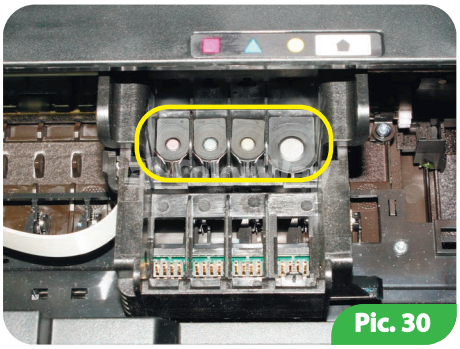
5.1. Turn on printer (MFP). Lift the scanner unit for access to cartridges. When the carriage with cartridges will move to position "replace cartridges", turn off printer, pulling out the power cord from socket. Move the carriage to position "replace cartridges" and remove cartridges from the printer.
5.2. Remove the black rubber sleeve from the printhead nozzles (Pic. 26, 27). Install rubber gaskets on the fence nozzle of carriage. (Pic. 28, 29). Put on back the black rubber sleeve (Pic. 30).
5.3. Before installing cartridges into the printer , check the correct color sequence (Pic. 31).

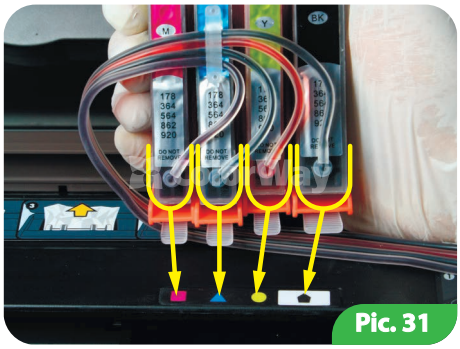




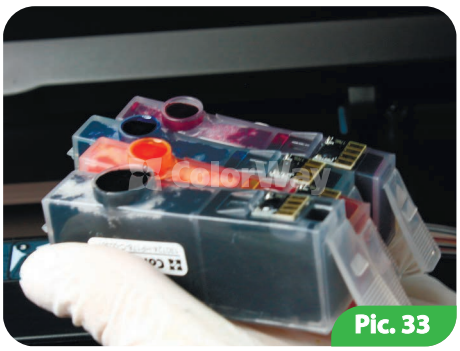


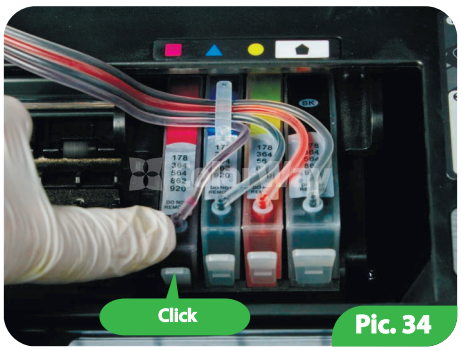






5.4 . Remove orange protective cap from CISS cartridges (Pic. 32, 33) , instal the cartridges into the carriage (cartridges should clearly be in place and snap). (Pic. 34, 35).
5.5. Place the tube into the holder on the cartridges block at an angle (Pic. 36).





5.6. Degrease place of connection using any alcohol liquid, before using double-sided tape . Over time, the double-sided tape fasteners may lose their properties and keep the fasteners poorly, then glue fasteners means at hand (glue).
Secure the T-shaped tube holder on the case of printer like as shown at the pictures (Pic. 37-39), (referred to this procedure, respectively, the holder must hold fixedly).
5.7. Move the carriage with your hand in to extreme left position (Pic. 40), secure the tube holder (Pic. 41), do not twist the tube (Pic. 42).
5.8. Move the carriage carefully with your hand from the extreme left to the extreme right position (Pic. 43), the tube should not be twisted and jammed carriage, tighten excessing (missing) tube if this is needed.

The correctness of the tube and secure with all regulations depends further operation of the printer with CISS .

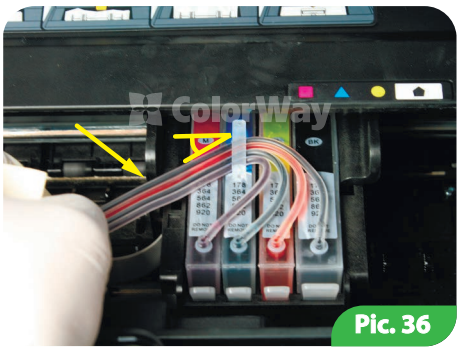
5.9. Secure tube on the case of printer using the " U-shaped " holder . (Pic. 44).

5.10. Before starting the system , you need to fix the scanner cover open sensor means at hand (the location of the sensor depends on the model), for example using double-sided tape. (Pic. 45, 46).

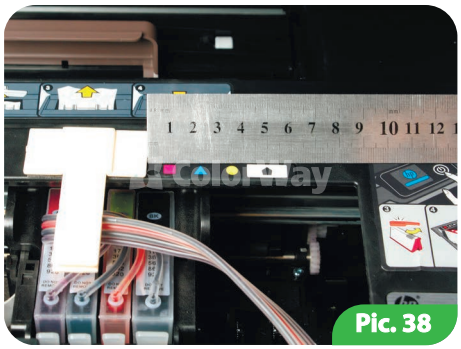
5.11 . Remove the binder , get straight tube. (Pic. 47)

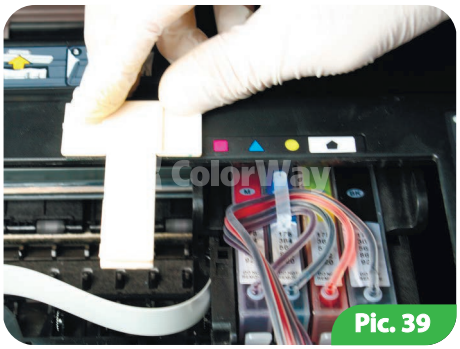
5.12 . Glue the containers block to the case of printer. (Pic. 48, 49). Install the optional " U-shaped " holder - it will serve as a stop of the scanner cover. (Pic. 49).

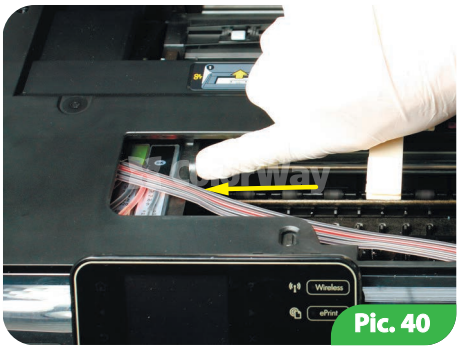

Pic. 35

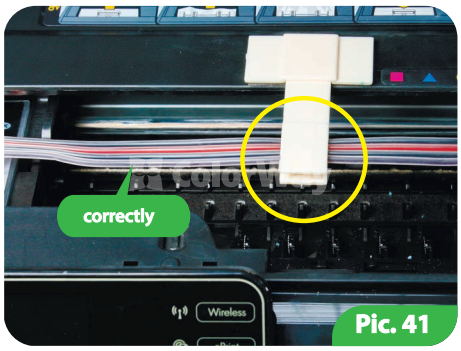

Pic. 36


Pic. 37

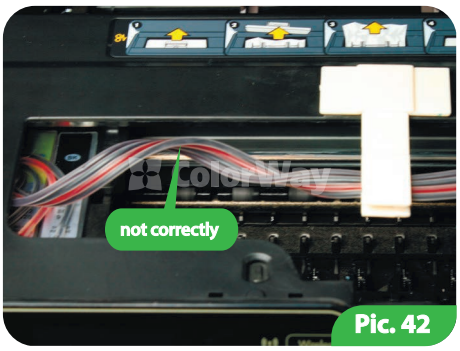

Pic. 38


Pic. 39


Pic. 40

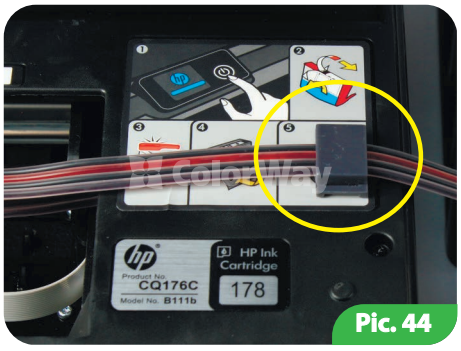


Pic. 41



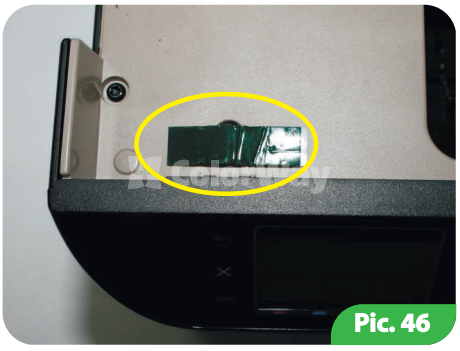
Pic. 42


Pic. 43



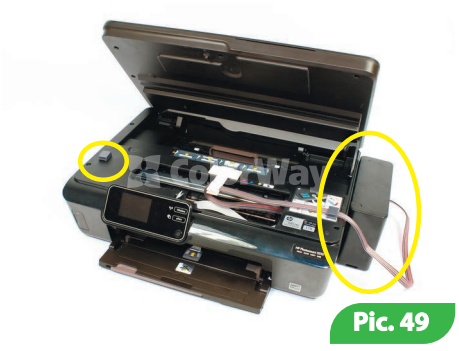
Pic. 44


Pic. 45


Pic. 46


Pic. 48


Pic. 48


Pic. 49

6. System start-up

Before system start, please monitor whether you strictly followed to all instructions in section 4 "Refilling of ink tanks". Make sure that ink tanks are on the same level with the printer; and air holes are open.

6.1. Switch on printer (MFU). Wait until printer (MFU) is ready.
6.2. With a help of printer driver do 2-3 cleaning procedures and after this print out a test page and then make sure all nozzles print properly. (p.1.2.). If some nozzles do not print, please leave printer for 5-10 hours, over this time an air that could get in printing head during installation can go out and also a system pressure stabilizes
6.3. If MFU says that inks are over, please follow instructions on MFU display, choosing actions to continue printing. Printer driver does not block printing when counter of original cartridge on.

7. Service regulations of CISS

7.1. External ink tanks should be filled correctly.
7.2. Working position of the rubber plugs ink tanks: the camera dosing and stabilization - is closed; the air chanel - is open.
7.3. Big holes in tanks should be closed and small holes open with air filters.
7.4. External ink tanks should be standing on the same level with printer, do not lift them higher than level of cartridges because it may cause leakage. If air filters do not work properly due to various reasons please remove them and use system without them.
7.5. A Silicone tube should be installed properly and do not obstruct a movement of printing head.
7.6. Print no less than 1 time a week to avoid printing head drying.
7.7. Use only high quality inks, do not mix inks of various brands and types. It may harm cartridges or printing head.
7.8. During printing do not get upside down ink tanks.
7.9. Use CISS in clean room at temperature of 15-35 C.
7.10. Do not get separate CISS parts. For getting the best printing quality please use inks and paper TM ColorWay.
7.11. Do not keep it under direct sun light.
7.12. Keep out of the reach of children, do not let inks to harm eyes.

8. Transportation of CISS with printer.

8.1. Close with caps small halls in order to avoid leakage.
8.2. Bind with binder a silicone tube that comes from CISS to printer.
8.3. Transport a printer with CISS in horizontal position, do not get printer upside down. For more convenience you can stick air tanks to printer.

9. Questions and answers

9.1. Some places are not printed well (text or pictures)
In case: if you cleaned printing head several times and you still can see blanks on paper.
Solution: clean printing head several times and after cleaning procedure print test page. After each cleaning procedure please make a break for 5-10 min. If it does not help, switch off printer for 12 hours and let CISS and printer to stay calm. After this please print test page.
Solution: with unacceptable printing result of printing (after several cleaning procedures) remove a rubber laying from printing head, from those color cartridge that gives unacceptable result.
9.2. Air bubbles in a silicone tube
In case: if cleaning does not lead to positive result and you still have problems with colors workability.
Solution: a system is not properly pumped and as a result in cartridges lots of air, you need to pump system properly one more time (see p.2).
Solution: external ink tanks are lower than level of printer. Get ink tanks on the same level with printer.
Solution: a rubber laying is worn out on nozzles of carriage, please replace laying.
9.3. During printing one or two colors does not work
In case: when during printing a test page one or two colors does not work, and some colors do not come into cartridge.
Solution: print a test page and find out which color does not work, check a silicone tube for any bends. In case of any bends please get straight a silicone tube and after this do cleaning procedure.
Solution: a system is not properly pumped and as a result in cartridges lots of air, you need to pump system properly one more time (see p.2).
Solution: a rubber laying is worn out on nozzles of carriage, please replace laying.
9.4. Stripes on printings
In case of horizontal stripes or blanks on printings.
Solution: the main reason is drying of printing head that caused by usage of low quality inks or long term unworkable printer condition. With a help of printer driver for cleaning, please make 2-3 cleaning procedures and repeat it again after 2-3 hours.
Solution: Solution: a system is not properly pumped and as a result in cartridges lots of air, you need to pump system properly one more time (see p.2).
9.5. Colors inversion
In case when all pictures are unnatural.
Solution: please make a test page, all colors should be different and cartridges of CISS should meet the respective carriage of printing head.
9.6 Bad printing quality
In case when a test page is positive and printing quality is low.
Solution: soft program of printer is installed incorrectly. Please change printer settings to higher.
Printing is low quality. The reason might be because of not properly calibrated printing head (see printer manual). During printing there are stripes it might be the end of printing head life.
9.7. A printer does not recognize cartridges.
In case: if a printer does not recognize cartridges.
Solution: bad contact of cartridge with carriage chips, make sure that cartridges installed correctly. Clean a chips with dry napkin.
9.8. Blot on paper, a permanent air in tubes.
In case: you see blots on paper.
Solution: tanks are not on the same level with printer or in small tanks are too much of inks (p.8.). Please get inks tanks on the same level with printer and control filling procedure.
9.9. Error with carriage positioning.
In case: when printer says General Error or your printer needs service
Solution: during the printing a carriage cannot move. A silicone tube might be too short of long, please adjust a necessary length of silicone tube. If an external part gets in a printer, please check printer body for any external parts.