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Installation instruction
Continuous Ink Supply System (CISS). Item code: MG3140CN-4.5
CISS for inkjet printers and MFU Canon MG2140 / MG3140 / MG4140

Thank you for purchasing CISS TM ColorWay. We appreciate your support and we do our best for convenient usage of our products.
Continuous Ink supply system
Continuous ink supply system (CISS) is a device that is used for massive printing volumes, such as color copying, instant printing and other promotional materials printing. Systems are ideal for home and work operation.
CISS represents a device, which consists of inktanks with inks, linked with multichannel silicon tube with cartridges, identical to the original ones. CISS ColorWay uses high quality inks TM ColorWay.
CISS advantages: volume of donor inktanks is in 10 - 20 times bigger than the regular cartridges; there is no necessity to eject cartridges from printer during refilling, the air does not enter to the printhead, prolonging it's life. And as we know, it's the most expensive part of device; huge savings, more than in 20 - 40 times!

Box content:
1. 4-colours ink tank set with rubber plugs – 1 pc
2. 4-channel silicone tube – 1pc.
3. Tube clincher "clip" - 1 pcs.
4. Drill - 1pc.
5. Elbow hose with elbow ring– 5 pcs.
6. Binder – 2 pcs.
7. Refill tool – 1pc.
8. Refill tool rubber pad-connector – 2pcs
9. Air filter - 4 pcs.
10. Syringe - 4 pcs.
11. The clincher of tanks – 2 sets
11. Needle – 4pcs.
12. Gloves – 1 pare
13. Installation manual - 1 pc

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.

*Inks optionally: MG3140CN-0.0 (without inks); MG3140CN-4.5 (4 * 50 ml. inks); MG3140CN-4.1 (4 * 100 ml. inks).*
Note: The original cartridges are not included in the bundling. CISS bundling may differ.

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.
1.2. 1.2. Before system installation make sure that your cartridges have never been refilled before, since depending on the way of refilling the cartridge impermeability may be broken what may lead to system inability to work. If you have been using inks of another manufacturers that differs from CISS inks, please remove old inks from cartridges. For this is convenient to use a syringe with

! *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).

needle to pull out old inks. After you need to fill cartridges with set inks. (see p.2.1.) and to check their workability.
1.3. Please print test page to evaluate printer ability to work.
Start / Control panel/ Printers and Fax/Choose printer / Printer adjustment / Maintenance /Nozzle Check
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 (Pic. 1) Service, button Cleaning, deep cleaning, if this does not bring positive effect so please replace broken cartridge to a new one.
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

Pic. 1
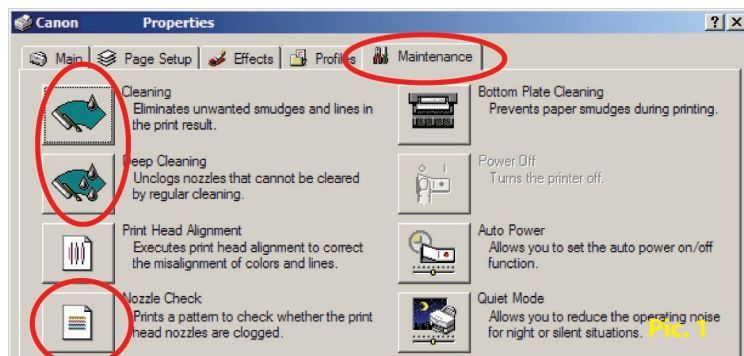
### 2. Original cartridge modernization.

Turn on the printer (MFU).
2.1. Open the cover, that closes the cartridges. When the slider goes into the position of the replacement of cartridges, turn off the printer - unplug the power cord. Remove the cartridge from the printer.
2.2. 2.2 Remove labels from cartridges (Pic 2). With a help of drill please make 4 holes (Pic 3). **Please pay your attention the upper hole of color cartridge during drilling should be displaced a little bit down in a way the upper edge could cover a ventilation hole (Pic. 4). All other holes should be done in places of ventilation holes (Pic 5). During drilling be careful, do not put too much effort to drill in order not to harm inside components of cartridge, do not drill holes bigger than diameter of drill. Quality of CISS work depends on quality of made holes.**
If cartridges were used in printers or they are empty, before installation you need to fill them with inks. (p.2.3-2.6). If cartridges are new so please go to p.2.7.
2.3. For cartridge refilling, fill syringes with inks and put on needles on syringes. Get cartridge with printing head down on the napkin and in case if you fill more than necessary of inks a napkin absorbs surplus.
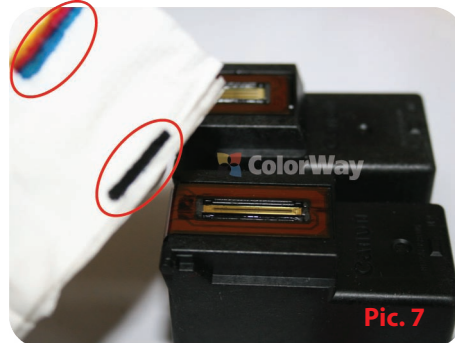
Pic. 2

Pic. 3

Pic. 4
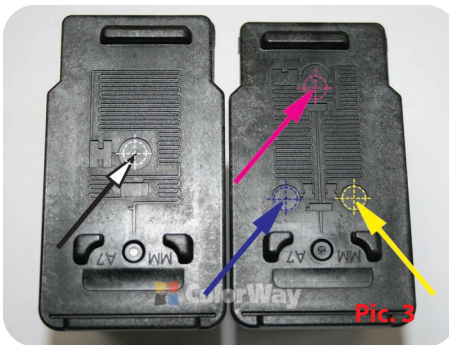
Pic. 5

Pic. 6

Pic. 7

2.4. Put a needle in cartridge (5-6 mm), slowly and accurately fill 2-6 ml of color inks (do not mix colors) and 5-10 ml of black color (do not overfill). During the refilling process do not remove cartridge from napkin since color can be mixed.

2.5. After refilling clean nozzles of cartridge with napkin. Inks should not be accumulated on printing head. If it happens remove inks surplus with syringes. Get a clean napkin to cartridge nozzles and after correct refilling you get distinctive mark of all colors on a napkin (Pic. 6, 7).

2.6. Install cartridges back into printer. Switch on printer and make p.1.3. of this instruction

2.7. In drilled holes with circular rotation install rubber nozzles (Pic. 8, 9), CISS ability to work depends on this procedure, rubber seals should fit properly to each hole and have no scratches.

Pic. 8

Pic. 9

3. Connecting cartridges with silicone tube.

Before you connect the tube to the cartridges, please trace which pipe (canal) corresponds to which color.

3.1. Alternately, remove the protective colored plugs from the ends of the tube and connect the loop to the cartridges, do not mix colors, avoid the tube fracture (Pic. 10, 11). Do not damage the elbow hoses. During tube connection do not tear the tubes, lay the tube according the pic.11

Pic. 10

Pic. 11

4. Ink tank refilling

PLEASE NOTE: INK VERY BADLY WASHED OFF, PLEASE ORGANIZE ALL THE PROCEDURES VERY CAREFULLY!

INK CAN RUIN YOUR FURNITURE AND CLOTHES; MAKE SURE THAT YOUR WORKING SPACE AND CLOTH ARE NOT CHERISHED.

Fill in the ink tanks as it shown on Pic.12:

4.1. Plug small aperture with the rubber;

4.2. Inject ink though the big aperture;

4.3. Plug the big aperture;

4.4. Unplug the small aperture, insert the air filter;

4.5. In case big apertures weren't plugged, ink level in both chambers will become equal. In this case you have to unplug both chambers, insert the syringe with pulled back plunger into the small aperture. Carefully push the syringe plunger down, injecting the air into the small chamber and transferring ink into the big chamber. Than plug the big aperture (Pic.12 – images 4.5).

In-service ink tanks should be correctly filled-in: please pay attention to operating level of ink in small chamber – it should be minimal.

Pic. 12

work level

4.1 4.2 4.3 4.4 4.5
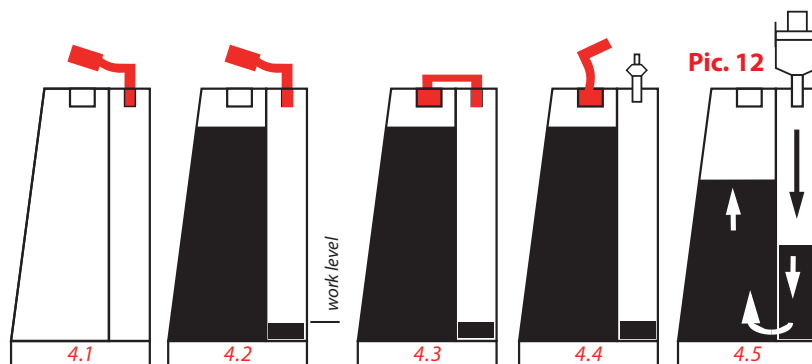
> **!** Note: Do not place ink tanks higher than level of cartridges (printing head) it may cause leakage. Due to excess pressure ink flows into the printer and may spoil printing head and electronic contacts. Keep the ink tanks on the same level with the printer. The air filters (membrane) should be clean and dry. If the air filter is moisten with ink or any other liquid – it stops passing the air and CISS stops working properly (the missing colors are observed on printouts). In this case it'll be better to take filter away and use the CISS without it.

5. System pumping

5.1. Insert the rubber "bush- adapter" in the cartridge holder. Be sure that there is through hole inside the bush. . Bush with a long cut is used for pumping black cartridge, with smaller cut for color one. (Pic. 13)

5.2. Insert the cartridge into the holder in turn, replacing the corresponding bushes. Hold the cartridge with your fingers to the bus. . Insert the syringe tip into the rubber bush. Slowly pull the plunger of the syringe to pump CISS (Pic. 14), during pumping you will see how the ink will start to flow from the tube into the cartridge. Do not remove the syringe harshly and hold the plunger of the syringe, wait until the tube is full and the pressure in the syringe is stable.

5.3. Remove the cartridge from the holder and clean the print head and cartridge contacts with a wipe. Lean clean wipe at the cartridge nozzles, after correct pumping should remain a clear mark of all cartridge colors on the wipe (Pic. 6, 7). If necessary, hold the wipe on the cartridge nozzles to absorb extra or mixed ink.

Pic. 13

Pic. 14

5.4. After pumping, step back 5-6 cm on the tube from the ink tanks, then fracture the tube and clamp it with a binder, in order to avoid overflow (outflow) of inks during the installation of cartridges into the printer.
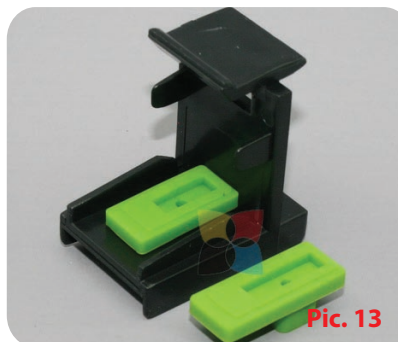
6. CISS installation, laying of the tube

6.1. Remove a side cap of printer (MFU). Remove a printer cap from left and right locker and remove a spring (Pic. 15,16).

> **!** *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!*

6.2. Put cartridges in carriage and click clinchers, make sure a tube placed properly. Cartridges should be placed properly, if color cartridge is lower than black one (Pic. 18), it is necessary to press on it a little bit (Pic. 19, 20).

6.3. Get a silicone tube behind printer baffle (Pic. 21).

6.4. Put away a carriage to max right position with your hand (Pic. 22).

6.5. Lay a silicone tube along baffle in printer (Pic. 23).

6.6. Remove binder from tube and fix a tube with binders as shown on pic (Pic 24). To avoid a tube damage with binders please use paper elements (Pic. 25, 26).

6.7. Disconnect binders handles (Pic. 27).
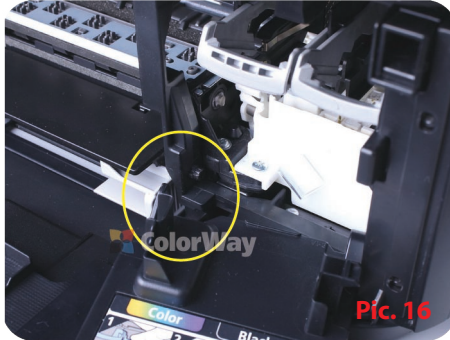
6.8. Fix a tube with a U shaped clincher (Pic 28).

6.9. Move a carriage from left to the right with your hand, a tube should be fine working during this movement. If it is necessary please adjust the a length of tube.
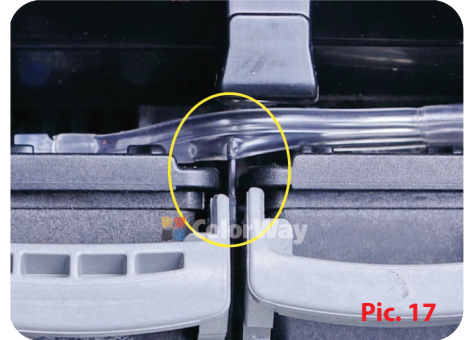
6.10. Shut a cap of printer (Pic.29)

6.11. You can use clinchers for ink tanks and if you want you can stick ink tanks to the printer (Pic. 30;31;32).
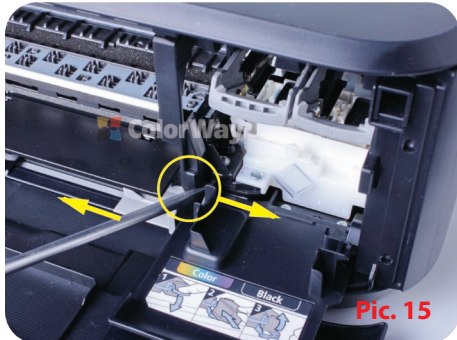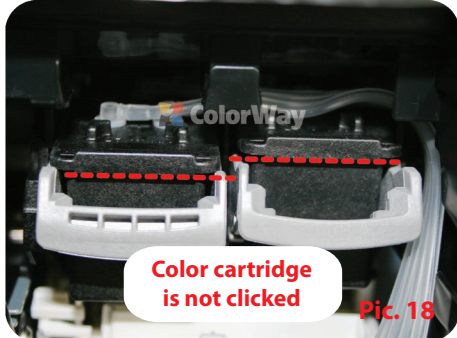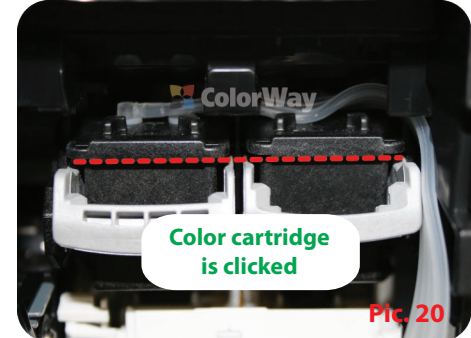

Pic. 15

Pic. 16

Pic. 17

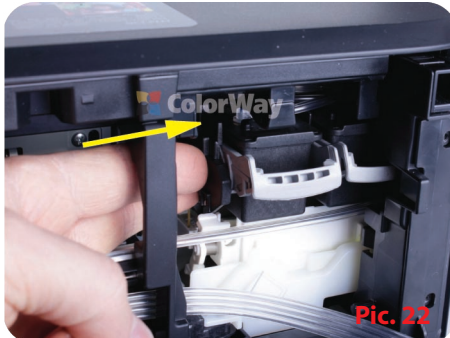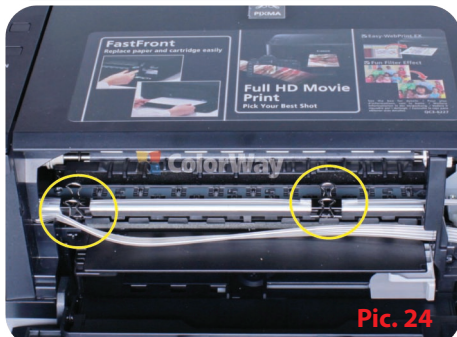**Color cartridge is not clicked**
Pic. 18
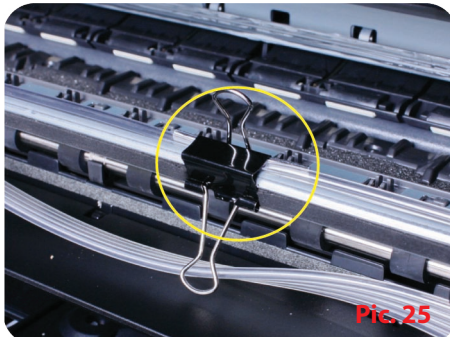

Pic. 19
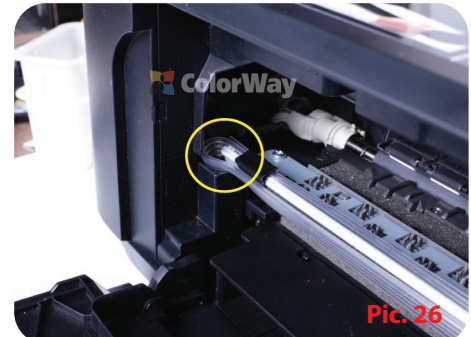

Color cartridge is clicked
Pic. 20

Pic. 21

Pic. 22

Pic. 23

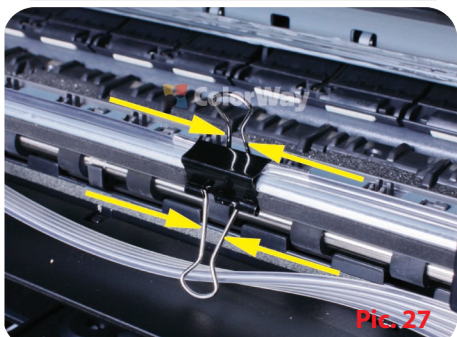Pic. 24

Pic. 25

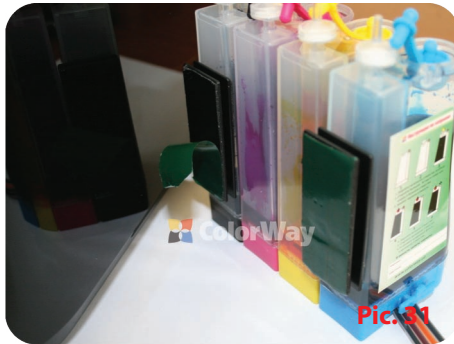Pic. 26

Pic. 27
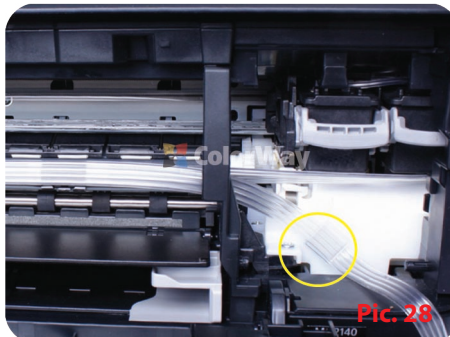
Pic. 28

Pic. 29

Pic. 30

Pic. 31

Pic 32

7. System start up.

⚠️ *Before launching the system check the compliance with all the paragraphs of chapter 4. Ink tank refilling. Make sure the ink tanks are at the same level with the printer and that the air halls are opened.*

7.1. Remove the binder clip to recover the tube.
7.2. Turn the printer (MFU) on. Wait until the printer (MFU) is ready mode.
7.2. Use printer (MFU) driver and perform a 2-3 cycles of printing head cleaning and nozzle check. Then execute the nozzle test to make sure that all the nozzles are ok (p.1.3. of this manual). If some nozzles print badly, leave the printer for several hours, to let go the air that may get inside while the installation of the printing head; and the pressure inside the system stabilizes.
If this didn't help, perform the print head cleaning once again and follow to section 10 of this manual.

⚠️ If your printer (MFU) is stating that cartridge is run out of ink – press and hold the "cancel" button during 5-8 sec on the front panel. This will disable the ink level tracking, after this printer can show low ink level message or that it is not possible to determine the rest of ink, but it will print. Or follow the tips on the MFU display, choosing the options to continue printing.
Don't forget to fill up the inks in time. If the printer is not operated for a long time and there is a lot of air in the tube pipes, follow the paragraph (1.3 manual). Inks serve as the cartridge print head cooling elements and their absence could lead to failure of the print head work itself. The reason for the frequent presence of air in the tube pipe could be the low system tightness in the connection between cartridge and system.

8. Service regulations of CISS

8.1. External ink tanks should be filled correctly. A minimum level of inks should be in small ink tanks (p.4. Filling of ink tanks.
8.2. Big halls in tanks should be closed and small halls open with air filters.
8.3. 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
8.4. Silicone tube should be installed properly and do not obstruct a movement of printing head.
8.5. Print no less than 1 time a week to avoid printing head drying.
8.6. Use only high quality inks, do not mix inks of various brands and types. It may harm cartridges.
8.7. During printing do not get upside down tanks of inks.
8.8. Use CISS in clean room at temperature of 15-35 C.
8.9. Do not get separate CISS parts. For getting the best printing quality please use inks and paper TM ColorWay.
8.10. During a long-term storage, please do not get upside down your CISS, remove air filters and close small halls of CISS ink tanks to avoid ink leakage.
8.11. Do not keep it under direct sun light.
8.12. Keep out of the reach of children, do not let inks to harm eyes.

9. Transportation of CISS with printer.

9.1. Put out air filters and close with caps small halls in order to avoid leakage.
9.2. Bind with binder a silicone tube that comes from CISS to printer.
9.3. Transport a printer with CISS in horizontal position, do not get printer upside down. For more convenience you can stick air tanks to printer.

10. Questions and answers.

10.1. Air bubbles in a silicone tube/One or two colors do not work properly:
In case: if cleaning do 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.
Solution: halls in cartridges are not drilled properly or rubber seals are harm. Replace rubber seal and glue around halls with silicone.
Solution: L-shaped stuck with parolon inside cartridges. Remove connection and cut it on 2 mm.
Solution: External tanks are lower than printer. Please get tanks on the same level with printer.
Solution: Print test page, identify which color does not work and check the whole length of silicone tube. After this please make cleaning couple of times
Solution: the main reason of problem is drying of printing head that can be caused by long time printer unworkable condition or usage of low quality inks. Please use a driver for standard cleaning procedure and repeat all procedures after 2-3 hours.
Solution: a cartridge has deffects and needs to be replaced.

10.2. Incorrect colors transfer/color inversion.
In case: if all colors of pictures are unnatural.
Solution: Please open graphical editor, draw some color trinagulars, print it, if colors does not work (for example, instead of yellow is blue or green), then a silicone tube is installed in wrong way. It is necessary to replace cartridge and to install a silicone tube in correct way.

10.3. A printer does not recognize cartridges.
In case: if a printer does not recognize cartridges. Solution: bad contact of cartridge with chips, make sure that cartridges installed correctly. Clean chips of cartridges with dry napkin.
Solution: Please bind with a binder a silicone tube, put out tubes from cartridges and if a printer still does not recognize cartridges then you need to replace cartridges

10.4. 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 to much of inks. Please get inks tanks on the same level with printer and control filling procedure.

10.5. 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 on any external parts.

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