

ASK – 4000

INSTRUCTION MANUAL



V1.2 Edition
Apr. 2006

FCC Compliance Statement

- **WARNING**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Properly shielded and grounded cable and connectors must be used for connection to host computer and / or peripherals in order to meet FCC emission limits.

- **NOTICE**

Operation is subject to the following two conditions.

- (1) This device may not cause interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If you have any questions concerning the FCC Compliance of this device, please contact FUJI PHOTO FILM U.S.A. INC. shown in the back cover. For further questions, repair or troubled, etc. ask your representative.

For customers in Canada

NOTICE

This class B digital apparatus complies with Canadian ICES-003.

This device is in conformity with the provisions of the EMC Directive (89/ 336/ EEC) and Low Voltage Directive (73/ 23/ EEC).



Huomio : SUOMI

Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan

Merk : NORSK

Apparatet må kun tilkoples jordet stikkontakt

Varning : SVENSKA

Apparaten skall anslutas till jordat uttag

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Disposal of Electric and Electronic Equipment in Private Households

Disposal of used Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product, or in the manual and in the warranty, and/or on its packaging indicates that this product shall not be treated as household waste.

Instead it should be taken to an applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

If your equipment contains easy removable batteries or accumulators please dispose these separately according to your local requirements.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you have purchased the product.

In Countries outside the EU:

If you wish to discard this product, please contact your local authorities and ask for the correct way of disposal.

Entsorgung von Elektro- und Elektronikgeräten aus privaten Haushalten

Entsorgung von Elektro- und Elektronikgeräten (Anzuwenden in der Europäischen Union und anderen europäischen Ländern mit entsprechend geregelter Abfall-Sammelsystem)



Dieses Symbol auf dem Produkt, in seiner Bedienungsanleitung sowie auf der Garantiekarte, oder/und auf seiner Verpackung besagt, dass dieses Produkt nicht mit dem normalen Hausmüll entsorgt werden darf.

Stattdessen soll es der zuständigen Sammelstelle übergeben werden, die das Produkt dem Elektro- / Elektronikschratt-Recycling zuführt.

Durch Sicherstellen einer korrekten Entsorgung dieses Produktes helfen Sie, möglichen negativen Auswirkungen für Umwelt und Gesundheit vorzubeugen, die bei unsachgemäßer Abfallbehandlung dieses Produktes entstehen könnten.

Sollte Ihr Gerät leicht zu entfernende Batterien oder Akkus enthalten, entsorgen Sie diese bitte separat entsprechend den lokal für Sie geltenden Bestimmungen.

Das Recycling und die Wiederverwertung von Materialien hilft, natürliche Rohstoffe zu bewahren. Für genauere Informationen bezüglich der Wiederverwertung dieses Produktes wenden Sie sich bitte an die für Ihren Wohnort zuständige Abfallbehörde, Ihre kommunale Anfallstelle oder an den Händler, bei dem Sie dieses Produkt erworben haben.

In Ländern außerhalb der EU:

Wenn Sie dieses Produkt entsorgen möchten, wenden Sie sich an die für Sie zuständige Abfallbehörde und befolgen Sie die geltenden Vorschriften.

Traitement des appareils électriques et électroniques chez les particuliers

Traitement des appareils électriques et électroniques (Applicable dans l'Union européenne et autres pays européens pratiquant le tri sélectif)



Cette icône sur le produit ou sur l'emballage, dans le manuel ou sur la garantie, indique que l'appareil ne sera pas traité comme déchet ménager.

Il devra être acheminé vers une déchetterie qui recycle les appareils électriques et électroniques.

En s'assurant d'un bon traitement de ce produit, vous contribuerez à éviter des conséquences préjudiciables pour l'environnement et la santé.

Si votre matériel contient des piles ou accumulateurs faciles à retirer, merci de les enlever de l'appareil et de les traiter séparément.

Le recyclage de l'appareil contribuera à préserver les ressources naturelles. Pour plus d'information sur le recyclage de ce produit, contactez votre mairie, une déchetterie proche de votre domicile ou le magasin où vous l'avez acheté.

Pour les pays hors Union Européenne:

Si vous souhaitez jeter ce produit, merci de contacter les autorités locales pour vous informer sur les moyens de retraitement existants.

Entrega de aparatos eléctricos y electrónicos por parte de usuarios particulares

Entrega de aparatos eléctricos y electrónicos usados.

(De aplicación en la Unión Europea, y otros países con sistemas de recogida separados)



Este símbolo en el producto, el manual, la garantía o el envase indica que no debe ser tratado como residuo doméstico.

En su lugar debe ser entregado al punto de recogida correspondiente, para el reciclado de equipos y materiales eléctricos y electrónicos.

Al asegurar que este producto se desecha correctamente, contribuirá a prevenir posibles consecuencias negativas para el medio ambiente y la salud humana, que de otra manera se producirían por un manejo inadecuado del residuo de este producto.

Si su equipo contiene pilas, baterías o acumuladores que puedan sacarse fácilmente, por favor deséchelas separadamente de acuerdo con la reglamentación local.

El reciclado de materiales ayuda a conservar los recursos naturales. Para tener información más detallada acerca del reciclado de este producto; Contacte con el ayuntamiento de su localidad, la empresa de recogida, o la tienda donde lo compró.

En países de fuera de la Unión Europea: Si desea desechar este producto, por favor contacte con las autoridades locales, y pregunte cual es la forma correcta de eliminación.

Smaltimento degli Apparecchi Elettrici ed Elettronici ad Uso Domestico

Smaltimento degli Apparecchi Elettrici ed Elettronici (Applicabile nell'Unione Europea e negli altri Paesi Europei dove esistono Sistemi di Raccolta Separata)



Questo simbolo, apposto sul prodotto, o nel manuale d'uso e nel documento della garanzia, e/o sulla confezione, indica che questo prodotto non dev'essere smaltito come un normale rifiuto domestico.

Dev'essere invece consegnato all'apposito centro di raccolta per il riciclo degli apparecchi elettrici ed elettronici.

In tal modo, assicurandosi che quest'apparecchio verrà correttamente smaltito, si potranno evitare le possibili conseguenze negative per l'ambiente e la salute umana derivanti dallo smaltimento non appropriato.

Se il vostro apparecchio contiene batterie o accumulatori che possono essere facilmente rimossi, vi preghiamo di smaltirli separatamente, secondo le disposizioni del Comune.

Il riciclo dei materiali ci aiuterà a salvaguardare le risorse naturali. Per ulteriori informazioni sul riciclo di quest'apparecchio potete rivolgervi al competente ufficio del Comune, all'azienda municipalizzata che effettua il servizio di raccolta per i rifiuti domestici o al negozio dove l'avete acquistato.

Nei Paesi extra europei:

Se volete disfarsi di questo prodotto, per cortesia contattate le Autorità Nazionali e chiedete loro le corrette modalità di smaltimento.

Recolha de Equipamentos Eléctricos e Electrónicos provenientes de Utilizadores Particulares

Recolha de Equipamentos Eléctricos e Electrónicos Usados (Aplicável nos países da Comunidade Europeia e outros países Europeus com um sistema de recolha próprio)



Este símbolo colocado no produto, ou no manual de instruções e no certificado de garantia, e/ou na embalagem, indica que não deve ser colocado em contentores de lixo doméstico.

Deve ser colocado num local de recolha para reciclagem de equipamentos eléctricos e electrónicos.

Ao colocar este produto no devido local de recolha, contribui para a prevenção de potenciais consequências negativas para o ambiente e a saúde humana, que podem ser causadas pelo inadequado tratamento dos resíduos deste produto.

Se o seu equipamento contém pilhas ou acumuladores que possam ser facilmente desmontáveis, tenha o cuidado de os colocar no contentor de recolha adequado.

A reciclagem dos produtos é um gesto que contribui para a salvaguarda dos recursos naturais. Para mais informações sobre a reciclagem deste produto, contacte a sua autarquia ou a loja onde o comprou.

Países fora da Comunidade Europeia:

Se deseja libertar-se deste produto, contacte as autoridades locais do seu país para obter informações sobre a forma mais adequada de o recolher.

SAFETY NOTICE

Before you begin using your ASK-4000, read this manual carefully to become familiar with how to operate your ASK-4000.

Once you've read this manual, keep it handy in case you need to refer to it later.

The icons used in this manual are intended to prevent injury or damage to property. Safety notices are presented in two formats, "Warning" and "Caution". Make sure you understand what they mean before reading the rest of this manual.





WARNING : Death or serious injury can result from ignoring warnings and handling the product improperly.





CAUTION : Injury or damage to property can result from ignoring cautions and handling the product improperly.

If you have some question about operation and maintenance, please contact to your technical representative. Also if any of abnormal conditions occurs, stop using the printer immediately to turn off power and contact to your technical representative.





NOTICE ON SAFETY

 WARNING	<p>If any of follow conditions occurs, stop using the printer immediately, turn off the power switch on the front of printer, and unplug the printer from the main power socket. Make sure the burning has stopped and then contact your technical representative to request repairs.</p> <p>Operating this printer when it is emitting smoke, is unusually hot to the touch, is emitting an unusual odor or noise, or is in any other abnormal state.</p> <p>If water gets into the printer.</p> <p>If foreign object get inside the printer.</p> <p>Do not continue to use the printer, or you risk fire or electric shock.</p>
 WARNING	<p>If any of above conditions occurs, stop using the printer immediately, turn off the power switch on the front of printer, and unplug the printer from the main power socket. Make sure the burning has stopped and then contact your technical representative to request repairs. Never attempt to repair this printer yourself, because this can be extremely dangerous.</p>






NOTICE ON TRANSFER

 WARNING	<p>Turn off of power switch and disconnect power plug from the main power socket to prevent in fire or electric shock.</p> <p>Do not give a shock to the printer. It will result in fire or electric shock.</p>
 CAUTION	<p>Be careful with your waist, when installation or carrying the printer. Since this printer is heavy. Also use two or more persons to unpack or move the printer.</p>






NOTICE ON INSTALLATION

 WARNING	This printer for exclusive use of indoor. Do not use the printer to outside, or you risk fire or electric shock.
 WARNING	Connect the ground cable to ground connection. If leakage of electricity is occurred it result in fire or electric shock.
 CAUTION	Do not install the printer as at following place. Do not place to unstable place. Printer may drop or fall down with an injury. (Install the printer to durable place with horizontal) Do not place the printer in humid or dusty locations; you risk fire or electric shock. Do not expose the printer to oil, smoke or steam, you risk fire or electric shock. Do not place the printer at directly exposed to the sun or high temperature area. Do not place the printer in cramped or poorly ventilated locations such as lockers, racks or bookcases. Do not place the printer near area of anti-fire provisions. Do not place the printer near flammable liquid.
 CAUTION	Be careful follow to prevent you risk fire or electric shock. Do not cover the printer with a tablecloth or similar covering. Do not turn over the printer. Do not block the printer ventilation grilles.


NOTICE ON POWER SUPPLY

 WARNING	<p>Do not connect the printer to any voltage other than the indicated power supply voltage. You may have to risk fire or electric shock. (AC100~240V single phase)</p>
 WARNING	<p>Be careful follow to prevent you risk electric shock. Do not touch the power plug during a thunderstorm. Never plug in or unplug the printer with wet hands.</p>
 WARNING	<p>Be careful follow to prevent you risk fire or electric shock. Check enough capacity of electric current. Make ground connection surely. Do not connecter the printer to any. (Power consumption / Rated electric current : MAX315w / 3A) Check and install the power cable more safety to prevent plug come away in person legs.</p>
 WARNING	<p>Be careful follow to prevent you risk fire. Do not use power cable with dusty. Do not wiring same power line with air-condition, copy machine so on.</p>
 CAUTION	<p>Be careful follow to prevent you risk fire or electric shock. Turn off the printer power switch before disconnect cable from the printer. Do not use power cable continuity, when power cable has damaged. Stop to use power cable, when plug is loosen. Do not bend strongly and crush power cable. Do not remove the printer's power cable from the power socket by pulling on the cable. Doing so could damage the cable and lead to fire or electric shock. Always grasp the plug itself and pull. Keep away power cable from heating appliance. Insert connecter of power cable completely to power plug.</p>


NOTICE ON OPERATION

 WARNING	<p>Be careful follow during operation to prevent you risk fire or electric shock. Do not modify the printer by yourself. Contact to your technical representative for repair, readjustment and inspection. Do not place flower vases, plant pots, cups or other vessels containing cosmetics, medicines or water on top of printer. Do not give a shock. Do not place small metal objects on top of printer. Such items could spill or fall inside the printer and cause fire or electric shock. Do not use continuity the printer, if the printer has got water, liquid or small metal. Do not do abnormal operation. The printer is damaged and you may suffer injury. Do not do operation with removed cover.</p>
 CAUTION	<p>Do not torch the thermal head few minutes after making print. You may have burn by heat.</p> 
 CAUTION	<p>Do not torch gears. You may have injury to pinch.</p> 

NOTICE ON SAFEKEEPING

 CAUTION	<p>Turn off the power switch and disconnect power cable from the printer for safety, if you do not use the printer over an extended period of time.</p>
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NOTICE ON PRINTER CLEANING

 WARNING	<p>For safety, always remove the plug from the power socket whenever cleaning the printer. Failure to disconnect the power may cause electric shock.</p>
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NOTICE ON DISUSE



WARNING

Obey municipal or government ordinance to keep nature environment, when life of the printer is end and throw away it.

OTHER NOTICE ON OPERATION

Be careful also following items with operation.

Do not give damage or vibration to the printer. This is a precision machine.

It may cause machine down.

Do not carry the printer with paper, ribbon and accessory into the printer together. And use the packing box came from factory. It may cause machine down.

Stop to use the printer for a moment with power off, if the printer has had moisture due to the printer moved from cool area to warm area so on. This applies paper and ribbon. Printer has whether paper and ribbon jamming or machine down.

Do not turn switch off the printer during operation with no problem.

There is fear to eliminate data and program from the printer.

Do not install the printer near TV, trance, motor, speaker, magnet and so on (magnetic substance).

It may cause machine down.

Do not install near TV and radio.

Printer generate an electric wave, and receiver receives jamming.

HOW TO HANDL PAPER AND RIBBON

Use glove when touching paper.

If you touch a paper with one's bare hands for setting paper, print may have dirtied.

For keeping paper and ribbon, following condition is necessary.

< Temperature: less than 30 , Humidity: less than 70% >

Use genuine paper and ribbon only. If you use other company's paper, printer has paper or ribbon jamming or machine down with no service and repair.

Preparation

Unpacking



Warning: The ASK-4000 unit is heavy and requires 2 people to carry.

- Please open the box and find ASK and its accessories.

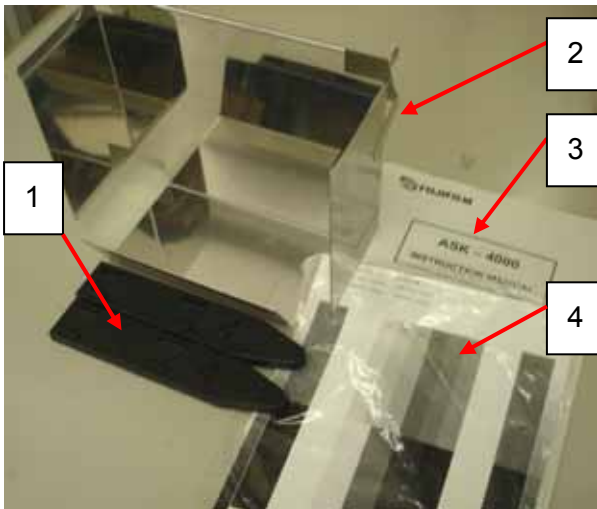


Fig.1 Standard accessories

Standard accessories

1. Foot
2. Print tray
3. Instruction manual
4. Print samples (adjustment data)
Label (Operation panel LED)

Attention:

Please keep test prints in safe place as they may be used as density reference if/when print head may need to be replaced.

Preparation before installation (Important item)

- The print head part fixed screw inside a main part removed.

Step 1. The fixed tapes of coating cover are removed.

Step 2. Open front door.



Fig.2

Step 3. The label of a print head part is read and a fixed screw is removed.

And it is move to 2 from 1.

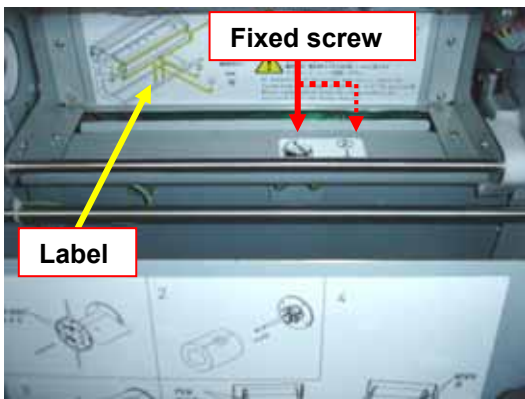


Fig.2-1 Label/ Fixed screw

When packing it, the print head is fixed with a fixed screw.

Remove this fixed screw and fixed tape at the time of unpacking.

(Note)

When a power supply is switch on without removing a fixed screw, print head part does not operate.

Step 4. The corrugated paper at the left the tray is removed.



Fig.2-2 Corrugated paper is removed

(Note)

When repacking , please fix in a reverse procedure.

- . When becoming unstable the main body of ASK when a front door is opened, accessory foot 2 piece is installed.

Step 1. There is a rail under the front door.

Step 2. Foot is inserted in the interior in the rail. (two places)

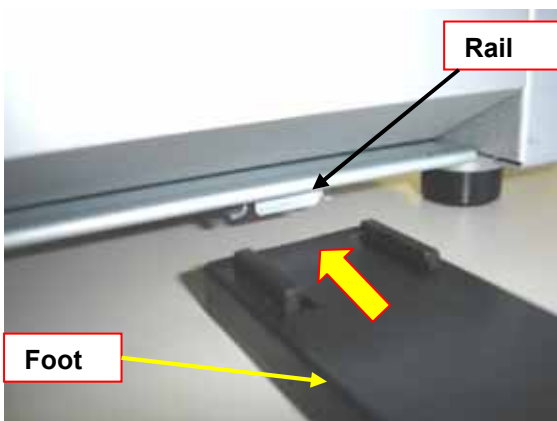


Fig.2-3 Foot is inserted



Fig.2-4 Foot was inserted in the interior.

Instruction

1. Overall view

(1) Front, Side part

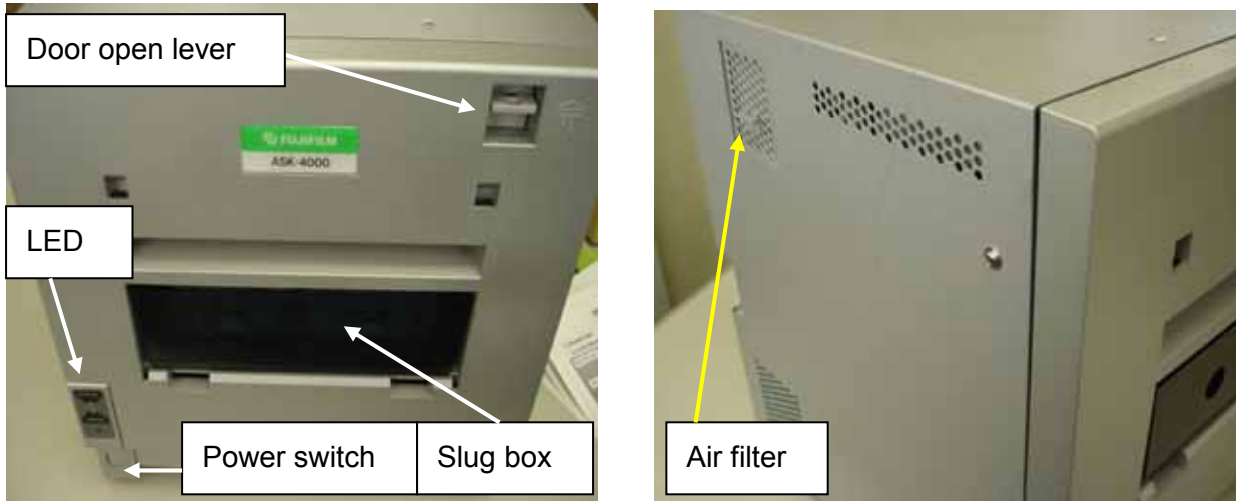




Fig.3 Front, Side part

(2) Rear



Fig.4 Rear

 **Warning :** To avoid electrical shock, always ensure hands are dry when inserting power cable.

 **Warning :** Connect the ground cable to ground connection. If leakage of electricity is occurred it result in fire or electric shock.

(3) Ink ribbon tray

- By opening the front door, you will find supply/take-up ribbon gears and bobbin bearings.

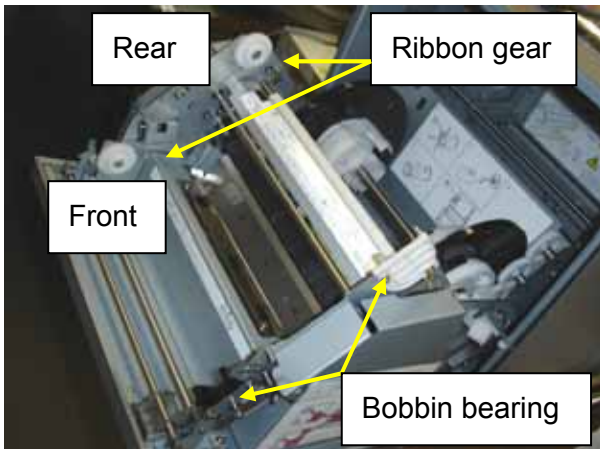


Fig.5 Ink ribbon tray

Front: Ribbon supply
Rear: Ribbon take-up

(4) Print head

- By opening the front door, you will find print head at inside printer.

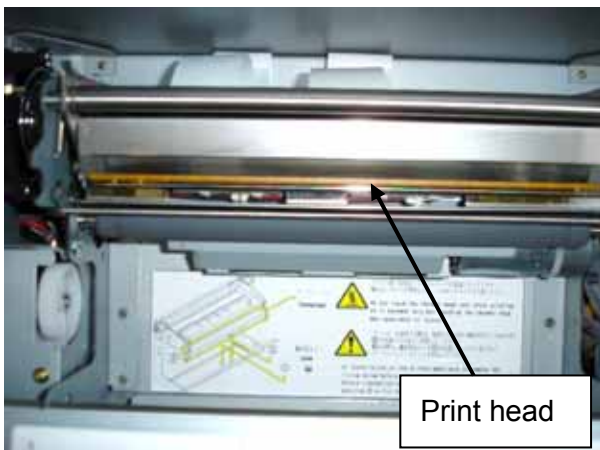


Fig.6 Print head



Caution:

Do not touch print head when power is on and immediately after switched off power.

*Could burn your fingers.

*Could cause damage to the head.

(5) Paper tray

- By opening the front door, you will find paper core.

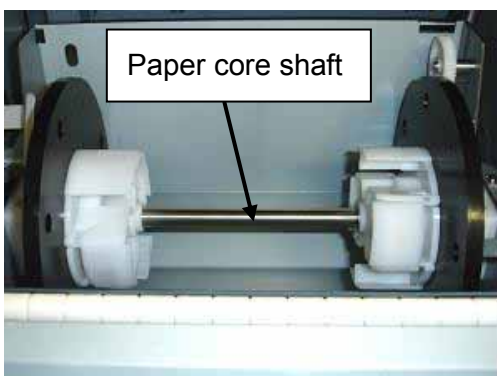


Fig.7 Paper tray

2. LED

(1) LED section

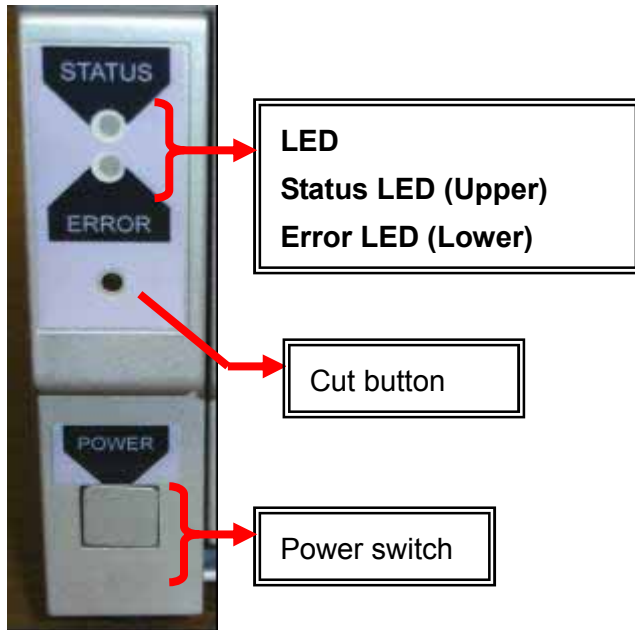






Fig.8 LED section

<p>Status LED</p>	<ul style="list-style-type: none">  <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Ready state (Blue stays on) Front door can be opened</p> </div>  <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Initializing (Green flashing)</p> </div>  <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Data transfer (White flashing) Printing (White stays on)</p> </div>
<p>Error LED</p>	<ul style="list-style-type: none">  <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Error that can be reset (Red stays on) Paper/Ribbon end</p> </div> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Error that is not possible to reset (Red flashing) Errors that requires power to be off/on</p> </div>

LED lighting explanation



Lit



Off



Flashing

LED		Explanation
STATUS	ERROR	
—	 Red	Error usually (Door open replace paper/ribbon etc)
—	 Red	Error: Power needs to be cycled off/on
 Blue	 Red	Paper set completion (When roll paper is set)
 White	 Red	Paper / Ribbon empty
 White	—	Transferring image data
 White	—	Printing
 Green	—	Initializing
 Blue	—	Preheating / Cooling down
 Blue	—	Ready

(2) Cut button

Pressing cut button while LED is at blue ready state will cause roll paper leading edge to be chopped off (about 10 cm) .

(3) Power switch

Pressing the power switch will turn on and turn off the power.

3. Operation

(1) Setting roll paper

- (Note 1) Use of cloth gloves is recommended while handling the roll paper.
(Fingerprints may stick to prints to cause problem on printed image)
- (Note 2) If paper end or ribbon end is reached during operation, please replace both roll paper and ribbon at the same time with keeping the power of the printer on.
- * If end is reached during continuous printing, print will automatically continue after setting paper.
 - * If power is turned off during the operation of changing paper/ribbon, data will be lost.
 - * One roll paper and one Ink ribbon are both designed to make 200 prints of 8x10 size. When one (roll paper or ink ribbon) becomes empty, please replace both at the same time.

Preparation: Prepare new roll paper and new ink ribbon
ASK-4000 power should be on.



Fig.9 Roll paper/Ink ribbon



Fig.10 LED

Step 1. Open front door.



Fig.11 Front door



Fig.12 Release the lever

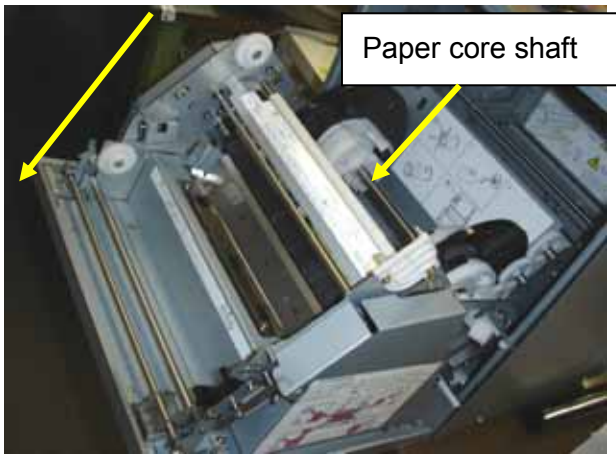


Fig.13 Inside of front door

Step 2. Pull out paper core shaft.

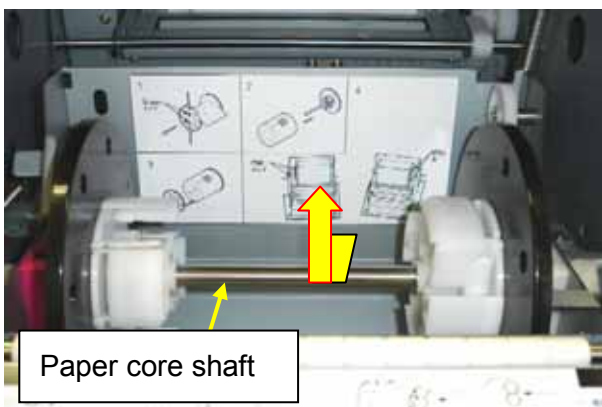


Fig.14 Paper section

*Pull out the paper core shaft and lift it up to remove.

Step 3. Remove left plate of the paper core shaft.

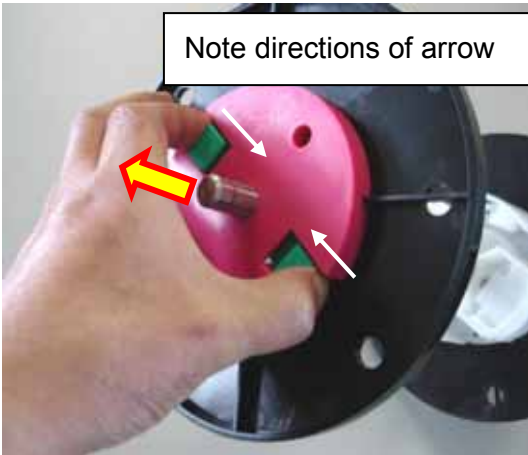


Fig.15 Removing left plate



Fig.16 Left plate has been removed

Step 4. Set roll paper to paper core shaft.

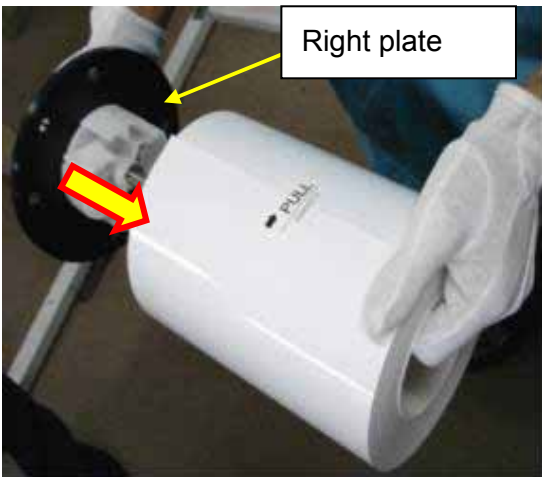


Fig.17 Push in roll paper to right plate

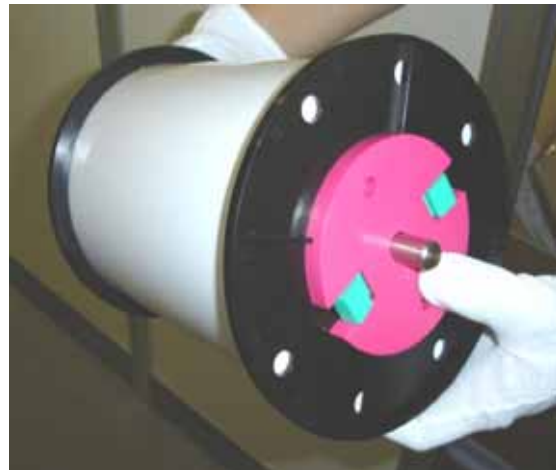


Fig.18 Next, left plate is pushed in certainly



Fig.19 Left plate is locked if right plate shaft is pushed in

Attention: Right plate cannot be removed (fixed).

<NOTE>

Make sure that the left plate is locked completely as Fig.19.

Paper jamming may be occurred due to paper wandering by unlocked them.

Step 5. Set roll paper securely to join color (pink) between plate and tray side.

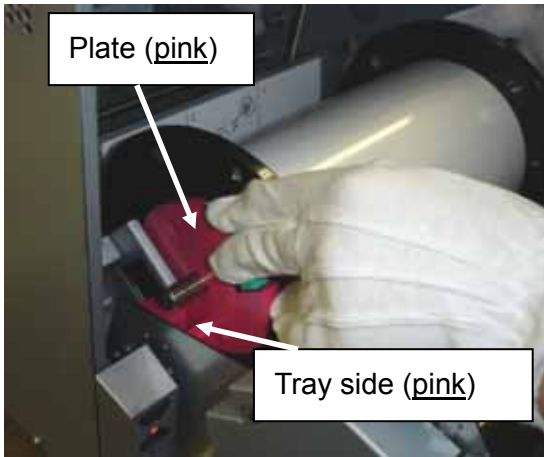


Fig.20 Setting roll paper set



Fig.21 Roll paper is set

Attention: Note the direction of the arrow seal (towards front).

Step 6. Remove seal at the paper leading edge.

Insert paper leading edge until it reaches the paper set position.

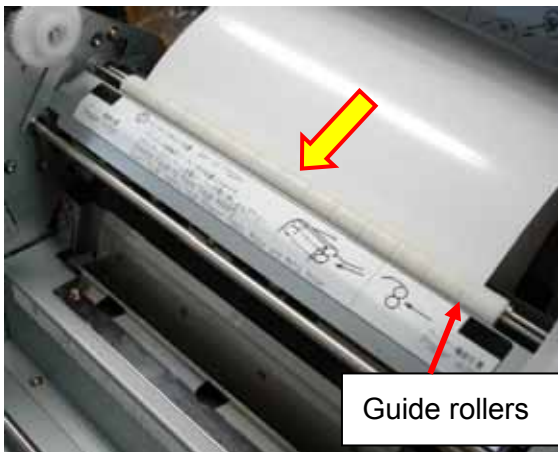


Fig.22 Insert paper leading edge between guide rollers

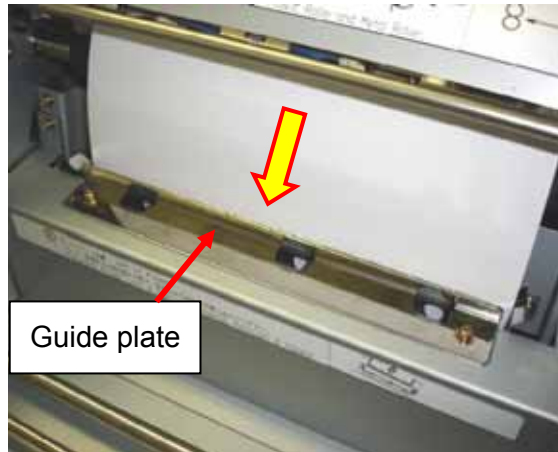


Fig.23 Then insert paper leading edge into guide plate

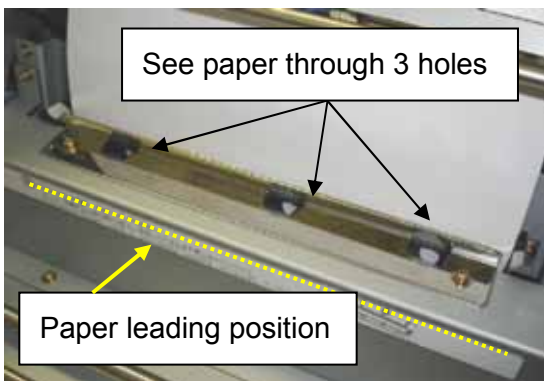


Fig.24 Paper set position

(Note) When paper leading edge goes through 3 holes, it is at the correct set position.

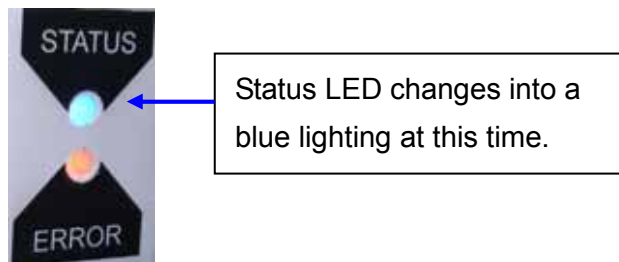


Fig.25 Status LED of paper set

(2) Setting ink ribbon

Set ink ribbon after setting roll paper

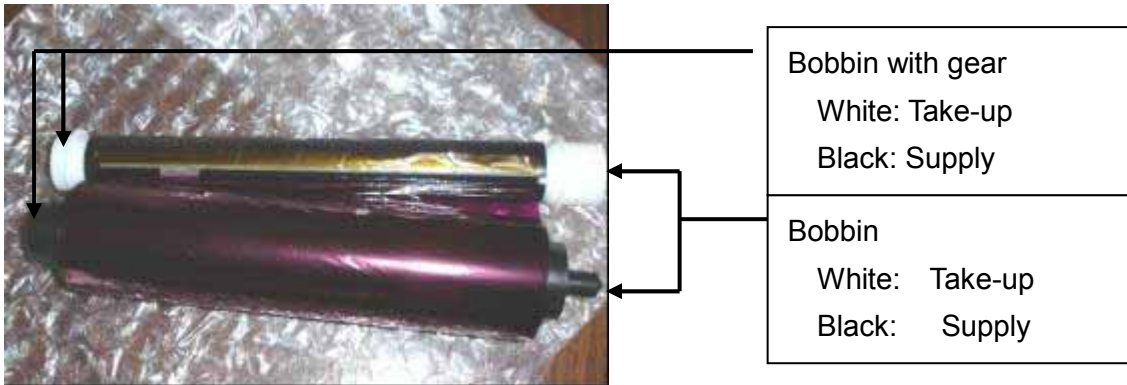


Fig.26 Ink ribbon

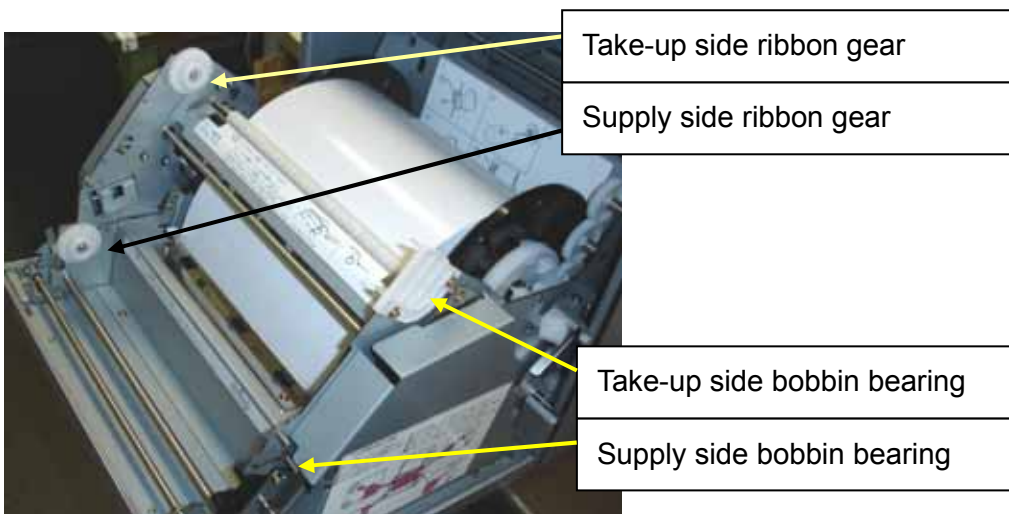


Fig.27 Ink ribbon tray

Step 1. Set ink ribbon as shown below.

First, set supply side ribbon at the position closer to front door.



Fig.28 Push supply side bobbin with gear (black) to supply side ribbon gear

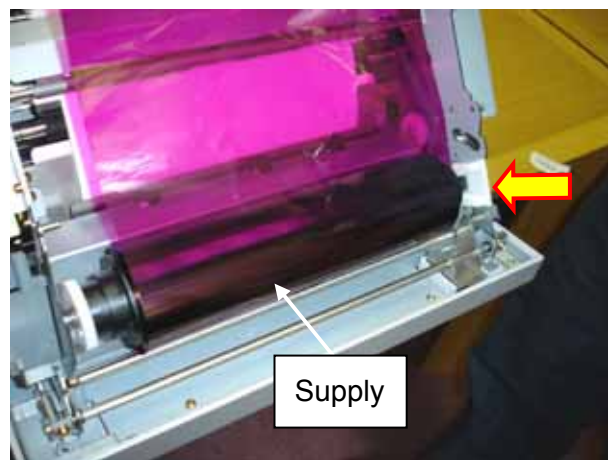


Fig.29 Then, push in supply side bobbin (black) to supply side bobbin bearing

Step 2. It will be the same for take-up side.

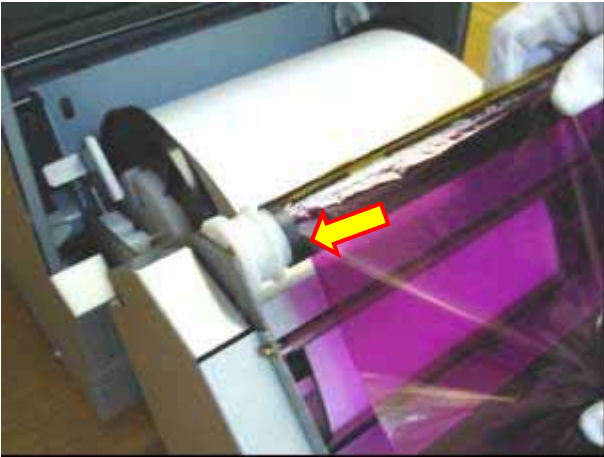


Fig.30 Push bobbin with gear (white) to take-up gear

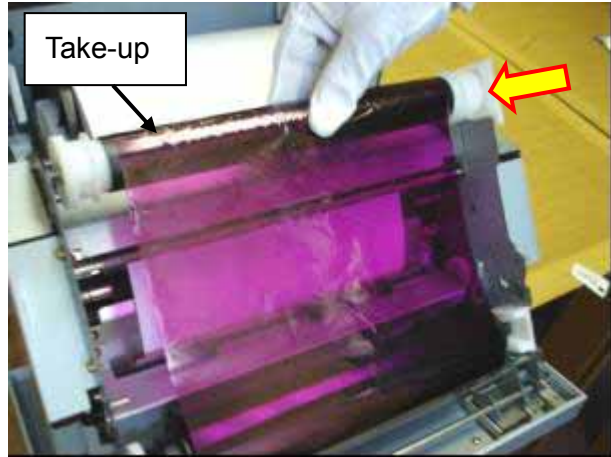


Fig.31 Then, push in take-up bobbin (white) to take up bobbin bearing

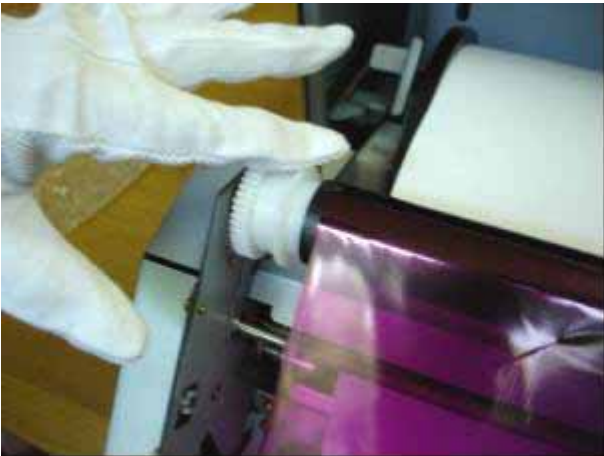


Fig.32 Adjustment of ribbon sag

(Note) If there is sag on ribbon after setting it, please remove ribbon sag by rotating the ribbon gear.

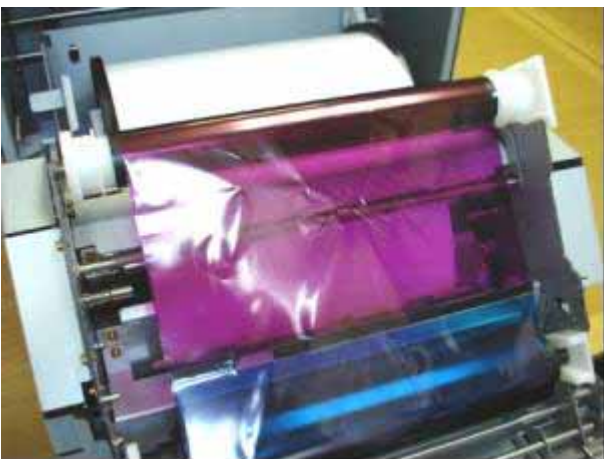


Fig.33 Roll paper/Ink ribbon in set position

Step 3. After setting paper/ribbon, close the front door until it becomes securely locked.



Fig.34 Close front door securely (until it becomes locked)

Step 4. Operation after closing front door.

If paper was set with ASK-4000 power on.

- * After initial movement, paper leading edge will be chopped off for five times (10cm x 5 times).

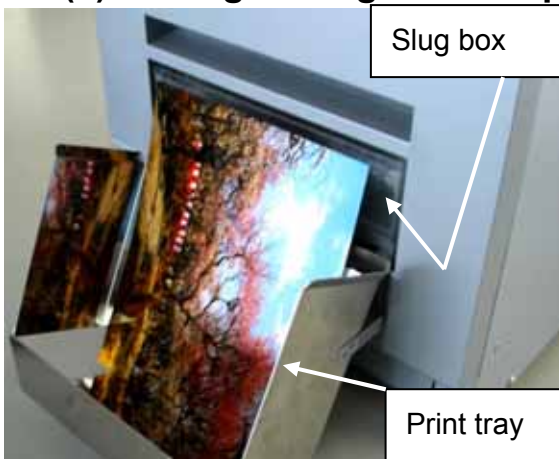
- * There will be some additional movement to set the paper straight and LED will become blue (Ready state).

If paper was set while ASK-4000 power was off.

- * After initial movement, there will be some additional movement to set paper straight, then, LED will become blue (Ready state).

(Note) In this case, there will be no chopping off of paper.

(3) Setting of slug box and print tray



(Note) Before you operate the printer, please make sure to clean the cut slug from the box (up to 200 cut slugs can be stored in the slug box).

Fig.35 Slug Box and print Tray

■ Setting and removing slug box

Step 1. Removing slug box. Step 2. Setting of slug box.



Fig.36 Lift up the slug box first and then pull it out



Fig.37 Push in slug box



Fig.38 Fit protruded portion at the bottom of the slug box to the recessed part of slug box receptacle

■ Setting of print tray

Step 1. Setting of print tray (Removing will be the same procedure in reversed order).

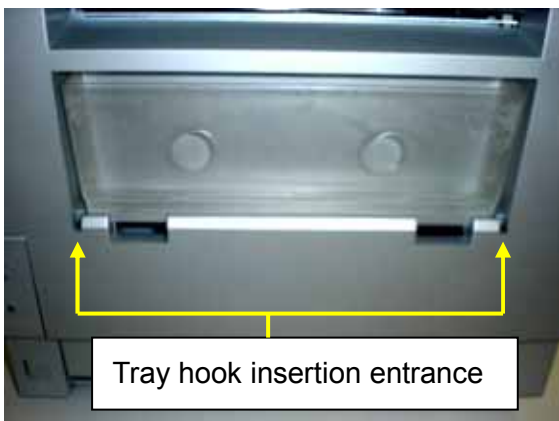


Fig.39



Fig.40 Print tray is set

(4) Checking before printing operation

1. Power for PC and power for ASK on?
2. Is LED indicating ready (LED = blue)?

(Note) Please do not open front door during printing.

(Safety function will force to stop the printing operation)

4. Daily maintenance

Please make sure that dust will not enter into the printer.

If you find dust on print surface, please clean feed roller inside the front door, print head, paper tray and ribbon tray sections.

(Note) Please use ethyl alcohol or isopropyl alcohol as cleaning solvent.

Emptying slug box

- Before operation, please make sure to take out and empty slug box.



Fig.41 Slug box

Feed section

- Please clean the paper tray section and platen roller with clean and wet but well squeezed cloth.
- For dirt, which is difficult to remove such as by small portion of ribbon sticking, please clean using soft cloth (like gauze) wet with ethyl alcohol.

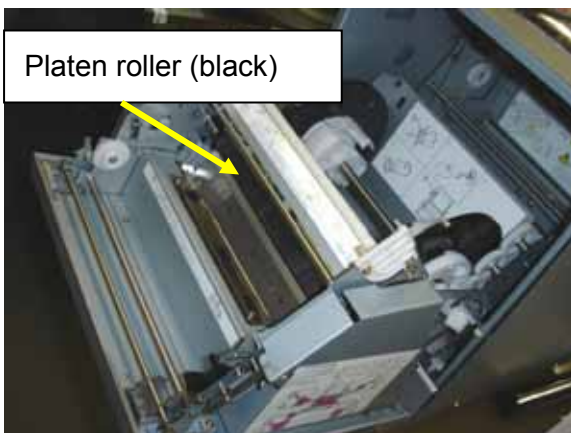


Fig.42 Platen roller

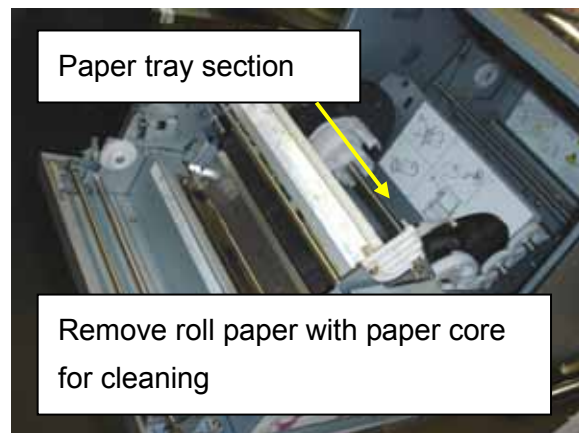


Fig.43 Paper tray section

Pinch roller

- Remove the protect cover and clean the pinch roller with wet towel.
- In case a piece of ink ribbon stick on roller and it is difficult to remove, clean with ethyl alcohol.

NOTE: Avoid the use of cloth which fur could come off.

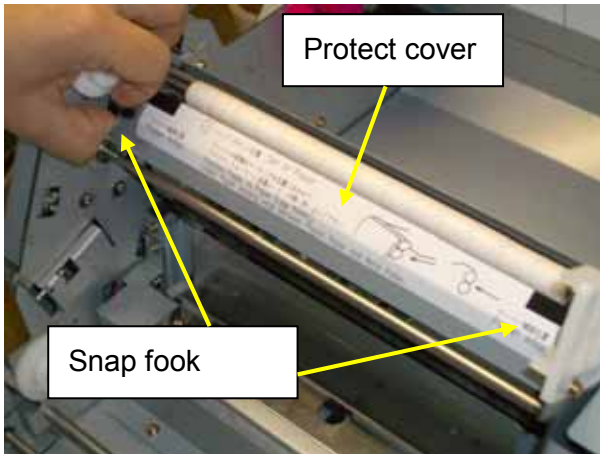


Fig.43-1 Remove protect cover

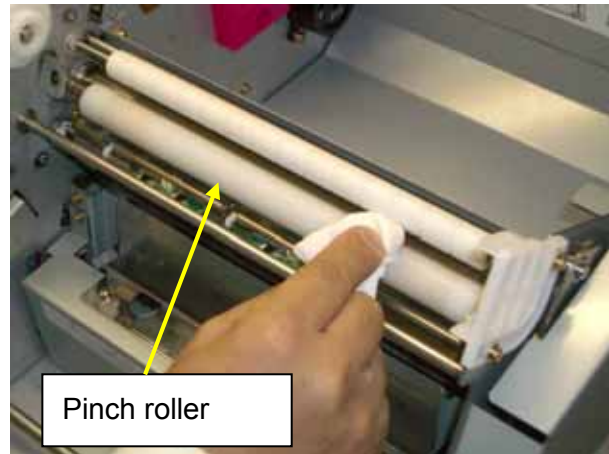


Fig.43-2 Clean pinch roller

Print head

To clean print head, please use dry soft cloth like a lens cleaner.
Do not use ethyl alcohol against head damage.

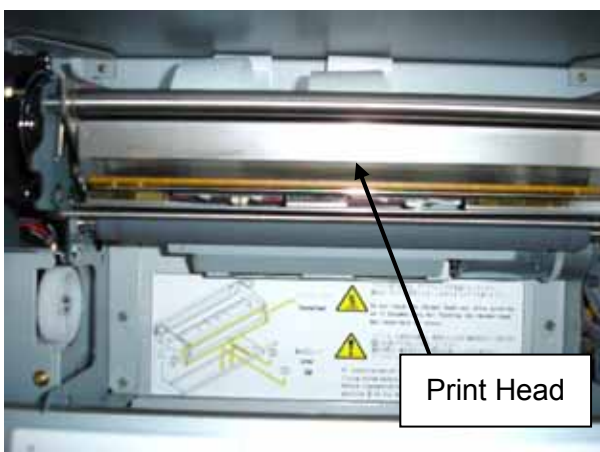


Fig.44 Print head

(Note) By opening the front door, you will find print head inside



Caution:

Do not touch print head while power is on or immediately after operating the printer.

- Could cause burn to fingers.
- Could cause damage to print head.

Monthly maintenance

Cleaning of air filter

Do following procedure to remove cover and remove dust clapping.

Do not wash the air filter so that keeping of static electricity type.

Points to clean: Filter cover, Air filter

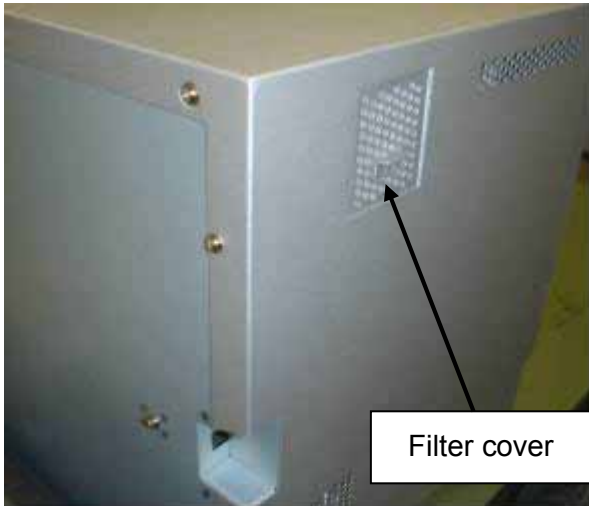


Fig.45 Air filter cover



Fig.46 Remove cover

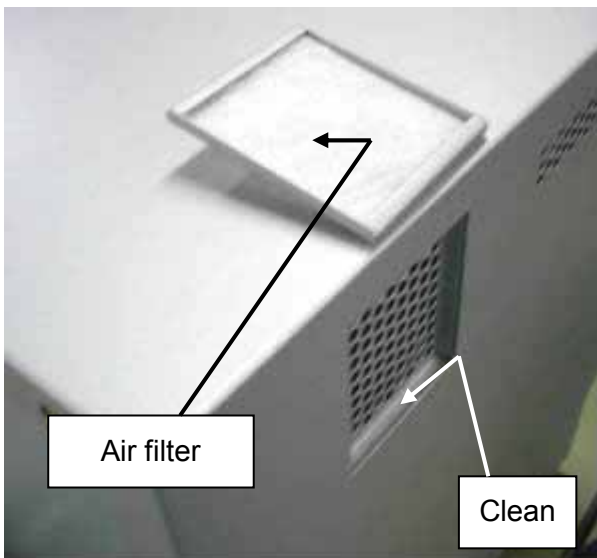


Fig.47 Replace air filter

(Note) If filter is extremely dirty, please replace it with a new filter.
(Replace after 3 to 6 months)

5. In case of trouble

(Note) When paper/ribbon reaches its end (Error LED red will stay on), please replace roll paper/ink ribbon with power kept on.

(1) Ribbon break down

Turn off ASK power and follow steps described below.

Step 1. Open front door, apply tape to put together the cut off portion of the ink ribbon.



Fig.48 Ribbon break

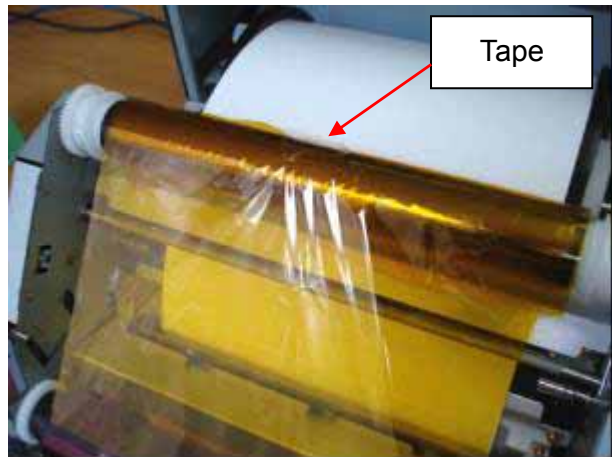


Fig.49 Put together with tape

Step 2. Wrap the ribbon a few times around take-up core.

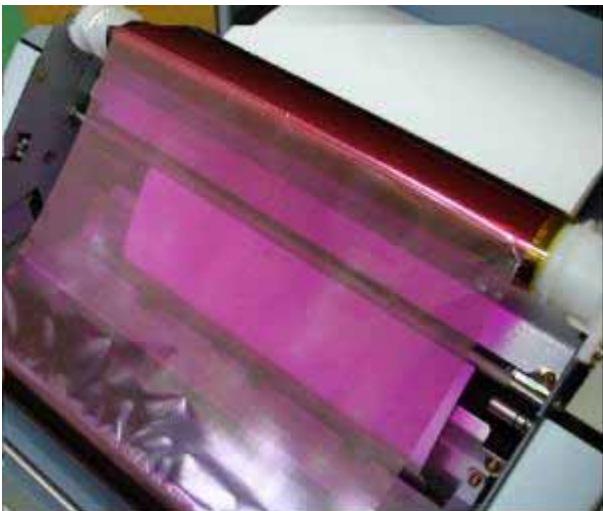


Fig.50 Wrap ribbon a few times around take-up side to avoid crease

(Note) Check the paper leading edge.
If a part of it is printed half-way, cut off this portion and set the roll paper again before resuming with printing.

Step 3. Turn on power of ASK. After making sure that error LED (red) went off, press cut button to chop off paper leading portion .

(2) Paper feed error

Turn off power of ASK and follow steps described below.

Step 1. Open front door, check to see if paper jam is found in the paper feed section by taking out the paper leading portion.

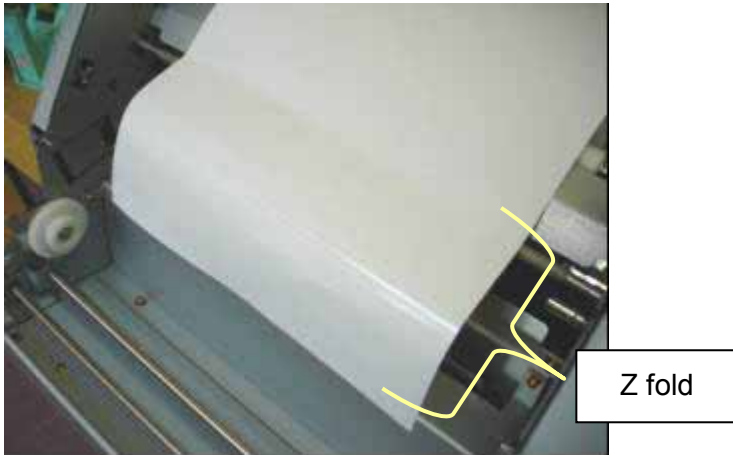
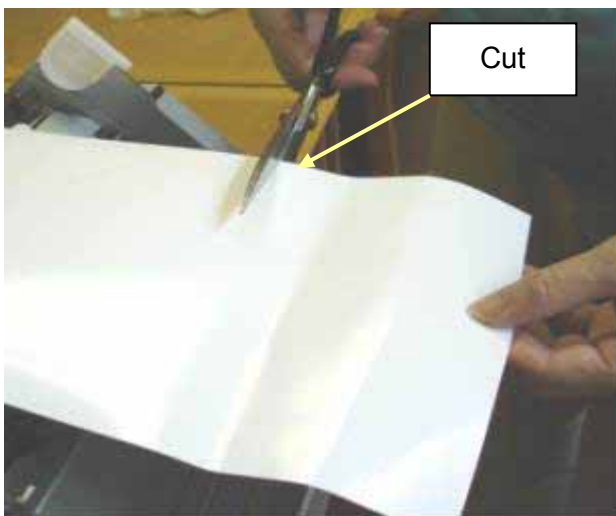


Fig.51 Take out paper leading part (Z folded)

Step 2. Cut off Z folded portion of the paper.



If paper leading portion is folded, cut off this portion in straight line by scissors.

Fig.52 Cut off paper leading section

Step 3. Wind back the paper leading portion to the roll paper.

Step 4. Turn on ASK power. Set roll paper and ink ribbon again.

Step 5. After checking that the LED is in ready state (blue), press cutter button and chop off paper leading portion.

6. Error messages

(1) Error messages upon startup

Error No.	Description
E00	USB communication Error. Please check USB communication.
E01	Print head does not work. (up) Please re-start a printer.
E02	Print head does not work. (down) Please re-start a printer.
E03	Please check the position of ink ribbon and re-start a printer.
E04	Error in head controller. Please re-start a printer.
E05	Paper jam during feeding. Please re-start a printer.
E06	Paper jam during rewinding. Please re-start a printer.
E07	Paper cutter is abnormal. Please re-start a printer.
E08	Internal command error. Please re-start a printer.
E09	Error in writing flash ROM. Please re-start a printer.
E10	Failure in power supply. Please re-start a printer.
E11	Failure in grip roller movement. Please re-start a printer.
E12	Please check the room-temperature thermistor. Please re-start a printer.
E13	Please check the room-temperature thermistor. Please re-start a printer.
E14	Please check the room-temperature thermistor. Please re-start a printer.
E15	Please check the print-head thermistor. Please re-start a printer.

(2) Recoverable Errors

Error No.	Description
W50	Printer not ready.
W51	Ink ribbon run out. Please replace an ink ribbon.
W52	Please place a proper size of paper and ink ribbon. Also, check paper size setting of the printer driver.
W53	Front door is open. Please close a door.
W54	Ink ribbon is not set. Please set an ink ribbon.
W55	Roll paper is empty. Please replace a roll paper.
W56	Paper is not loaded properly. Please re-set a roll paper into a printer.
W57	Please place a proper size of paper and ink ribbon. Also, check paper size setting of the printer driver.
W58	Front door is open. Please close a door.
W59	Received an invalid command. Please try printing again.
W60	Received an invalid parameter. Please try printing again.
W61	Printer is initializing. Please wait a minute.
W73	Failed to detect the ribbon mark. Please check the ink ribbon.
W74	USB cable is not connected.
W75	Data transfer failed. Please try printing again.
W78	Ink ribbon is abnormal. Please try printing again.
W79	Head unit position is abnormal. Please try printing again.

7. Specification

Item	Specifications	
Type	Dye Sublimation Printer	
Print Head	300 dpi (Dual Line Print Head)	
Print Resolution	300X600dpi	
Gradation	16.7 million colors, full color	
Maximum Print Width	216.3mm	
Print Speed	About 40 seconds (8 x10 inch)	
Interface	USB 2.0	
Buffer Memory	64 MB (32 MB x 2)	
OS	Windows 2000/XP	
Print Size	Border-less	8x10 inch (203 x 254mm)
Paper Type	Roll paper	
Ink Ribbon	YMC + OC (Exclusive type Ink ribbon)	
Outer Dimensions	370mm(W) x 350mm(D) x 400mm(H)	
Weight	Approximately 30Kg (Not including paper)	
Power Voltage and Frequency	AC 100V to 240V、 50/60Hz Automatic voltage switching	
Power Consumption	Maximum 315W	



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