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canon ipf9000 service manual

Call for service In the event of major changes in the contents of this manual over a long or short period, Canon will issue a new edition of this manual. Indicates an item requiring care to avoid electric shocks. Indicates an item requiring care to avoid combustion fire. Indicates an item prohibiting disassembly to avoid electric shocks or problems. In the diagrams, represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow indicates the direction of the electric signal. The ink tanks come with 8 colors mat black MBK, black BK, photocyan PC, cyan C, photomagenta PM, magenta M, yellow Y and gray GY. Each of these inks are pigment ink. The tanks are also available in two capacities 330 mL and 700 mL. Taking up begins automatically when a sensor attached to the bottom of the stand detects a roll delivered after printing falling down due to the weight of a weight roller. Saving print jobs will offer the following benefits Eased computer workload A print job may be automatically preserved to the hard disk when printing or may be preserved to the hard disk without printing. F114 Ink tanks Expendable ink tanks contain 8 colors mat black, black, photocyan, cyan, photomagenta, magenta, yellow and gray. Each tank is available in two capacities 330 mL and 700 mL. Printable area Cut sheet Internal area, excluding a 5mm top margin, a 23mm bottom margin and 5mm left and right margins. Lift and press down the lever when replacing an Ink Tank. To open it, lift the stopper of the lever until it stops, and then push it down toward the front. Choose Yes to cut the roll at the current position. However, if paper cannot be advanced to the cut position, it will not be cut. Choose Yes to have the printer print and read a band adjustment test pattern for automatic adjustment of the feed amount. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances.http://www.fernandezescobar.com/upload/ibm-thinkpad-t510-manual.xml

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Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A. Choose Yes to cut the roll at the current position. The paper will be fed, if necessary, so that the sheet is at least 10 cm 39.4 in.long after the cut. Choose Yes to have the printer print and read a band adjustment test pattern for automatic adjustment of the feed amount. To apply your changes, choose Register Setting. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A. F127 2 Remove the front Basket Rod from the left and right Basket Rods, and remove the back Basket Rod and the black cord from the Rod Holder.Next, remove the Rod Holder Adapter, leaving the Rod Holder attached, and put it in front of the printer. F129 4 Pull out the Basket Hooks from the left and right side of the Ejection Guide. F130 5 Attach the Basket Rod to the Basket Hooks so that the white tag of the Basket Cloth is on the left side. Roll up the Basket Cloth and put it at the back of the Bottom Stand Stay. F134 F135 Arrange the Basket Cloth and Basket Rod so they do not interfere with the Media Takeup Sensor.These include the carriage unit activated by the carriage motor, carriage belt, ink tube and flexible cable; feed motordriven feed roller and pinch roller; and purge motordriven purge unit. The ink flows through the ink tank unit, carriage unit, purge unit, maintenancejet tray, borderless print ink groove, maintenance cartridge and the ink tubes that relay ink to each unit. The ink mist is collected in the printer by the airflow. However,

uncollected ink mist may stain the platen unit, carriage unit, main rail unit, external unit, or purge unit. These stains may soil the print media or hands and clothes when servicing the printer, wipe them off carefully with a soft, wellwrung damp cloth.http://kerryparsonsfoundation.org/media/ibm-thinkpad-t43p-service-manual.xml

At the rear of the printer are the main controller, power supply, interface connector, and optional media takeup unit connector. The head relay PCB and carriage relay PCB are incorporated in the carriage unit, and the operation panel is located on the upper right cover. When installing the ink tank, be sure to shake it slowly 7 to 8 times before unpacking it. Otherwise, the ink ingredients may precipitate and degrade the print quality. To prevent foreign matter from entering the ink port, installed the unpacked ink tank in the printer immediately. Such a charge can damage electrical devices or change their electrical characteristics. When touching a linear scale and the carriage shaft, it might cause defective movement of the carriage and a defective print.Image data Host computer Mask pattern data Heat pulse Printer driver Command data PCI bus Data bus Universal sirial bus. Image data Host computer Mask pattern data Heat pulse Printer driver Command data PCI bus Data bus Universal sirial bus Interface unit. Each printhead has 12 trains of nozzles arranged in a zigzag pattern. This printer uses two printheads arranged side by side. Evennumbered nozzle data HxxDATAxEV, oddnumbered nozzle data HxxDATAxOD and the Heat Enable HxxHEx signal are generated for each nozzle train and controlled individually. Each printhead has 12 trains of nozzles arranged in a zigzag pattern. This printer uses two printheads arranged side by side. Evennumbered nozzle data HxxDATAxEV, oddnumbered nozzle data HxxDATAxOD and the Heat Enable HxxHEx signal are generated for each nozzle train and controlled individually. Each printhead has 12 trains of nozzles arranged in a zigzag pattern. This printer uses two printheads arranged side by side. Evennumbered nozzle data HxxDATAxEV, oddnumbered nozzle data HxxDATAxOD and the Heat Enable HxxHEx signal are generated for each nozzle train and controlled individually.

If the power cord is disconnected from the wall outlet or the upper cover or any other cover is opend, the printer cancels the ongoing operation and shuts down immediately. Because each color prints in up to 16 passes according the print quality requirement for a print mode, uneven density problems caused by variations in the rate of discharge among different nozzles are eliminated. Printing is performed for each color using a maximum of 16 paths in each print mode according to the selected print quality. This reduces density irregularities caused by the variation in the amounts of ink discharged from individual nozzles. In addition, it shifts the printing timing so that the current ink layer is nearly fixed before the next ink layer is applied, thus minimizing bleeding. Printing is performed for each color using a maximum of 16 paths in each print mode according to the selected print quality. Print position adjustment work in two modes automatic adjustment, in which print position adjustment patterns printed are detected by a multi sensor attached to the lower left part of the carriage, and manual adjustment, in which print position adjustment patterns that are slightly modified from one another are printed, so that visually verified adjustment values can be set from the operation panel. Normal print jobs are stored in the common box as they are received. When an electrode attached to a hollow needle detects no continuity, it displays a message reporting that the ink tank is nearly empty. If the ink tank runs out of the ink while printing, the ink stored in the subtank is available, allowing the ink tank to be replaced without having to stop printing.When the printhead is secured to the carriage, the signal contact of the head relay PCB is pressed against that of the printhead to convey print signals. Further, the ink passage from the ink tanks is connected to the printhead via the ink tubes.

Capable of controlling each nozzle individually, each printhead implements discharge control for six colors by itself.The purge unit supports a capping function, cleaning function, and ink supply function.The part of the caps that comes into contact with the face plate of the nozzle assembly is

made of rubber. A single tube is sequentially pressurized by a pair of rotating rollers to control the level of ink suction by a wide margin. The timing at which the rotating rollers rotate is detected by the pump cam sensor, with the distance of rotation being controlled by the driving of the purge motor. Three mist fans located on the rear panel of the printer produce airflow that carries the ink mists to the mist fan unit.It supports the following functions Image processing unit This unit converts the RGB multibit image data or CMYK multibit data received from the host computer through the interface connector to the binary image data for the ink colors used. It supports the following functions Image processing unit This unit converts the RGB multivalue image data or CMYK multivalue data received from the host computer through the interface connector to the binary image data for the ink colors used. Motor control function This function controls the carriage motor, feed motor, valve motor, purge motor and lift motor based on the input signals from sensors.The function for processing image data is not supported.When the upper cover close, the switches are pressed to detect the closed state of the upper cover. The sensor detects that the ink supply valve is open when the sensor light is shielded by a flag linked with the valve cam. Agitation cam sensor The photointerrupterbased agitation cam sensor detects the status of the agitation cam. When the carriage cover is closed, the sensor light is shielded by the sensor arm, enabling the sensor to detect that the carriage cover is closed.

The sensor detects the presence of paper when it receives sensor light reflected upon the paper. Feed roller HP sensor The feed roller HP sensor detects transitions from white transmitted, or a reference, to black shielded when the printer is switched on, thereby setting the home position of feed roller eccentricity correction. When the media takeup switch is set to ON, the sensor arm transmits the sensor light, poweron the media takeup unit. Refer to the package size and weight listed below for smooth carrying in and installation of the product. T31 Package size and weight 2480mmW x 1050mmD x 1238mmH Refer to the package size and weight listed below for smooth carrying in and installation of the product. T32 Package size and weight 2490mmW x 1060mmD x 1242mmH Approx. Refer to the package size and weight listed below for smooth carrying in and installation of the product. T33 Package size and weight 2490mmW x 1060mmD x 1242mmH Approx. Do not remove or cut them. If you do so, you cannot install the printer with it turned over. Do not remove or cut them. If you do so, you cannot install the printer with it turned over. If the stand is assembled by only one person, injury or deformation of the stand can result. F318 MEMO Be sure to raise the stand legs L and R at the same time.F321 7 Secure the leg covers to the stand legs L and R using M4 hex screws. Select either way according the number of the persons involved in installation. Installing the printer with it turned over in a group of four persons Installing the printer with it lifted in a group of six persons MEMO When installing the printer with it turned over in a group of four persons, use several packing materials such as the antiskid materials attached to the stand casters,. F326 3 Turn and remove the joints from the bottom cardboard seat, and then remove the stand support cardboard.

F333 9 While holding the printer and stand in a group of four persons two persons on each side, turn the printer forward until it stands upright using the rear ends of the stand legs L and R as the fulcra. The left and right lower cushioning materials must be removed one after another. F337 3 While holding the left and right carrying handles provided at the bottom of the printer in a group of six persons three persons on each side, lift the printer. Secure the printer to the stand by tightening M4 hex screws four screws on each side from beneath the stand support plate.Than, tighten all five M4 hex screws firmly in the order shown from 2 to 6. Bring the power cord of the right media takeup unit to the back of the printer and pass the cord through the cord holders. After passing the cord behind the holders, plug the cord into the power supply connector on the back of the printer. F346 When plugging in the power cord, be careful about the positions of the prongs. F353 7 Pull out the sag in the basket cloth backward. F357 2 Open the upper cover.Neglecting to attach the belt stopper may cause damage to the printer when moving the printer to another location. 5 Lift the ejection

guide. Install the printer driver in the PC, and carry out test printing. In spite of this precaution, shocks incurred during transportation can damage the printhead. Print the nozzle check pattern before making preparations for transporting the printer, pint the nozzle check pattern again after installing the printer at the new lo cation, and then compare the two printouts. When moving the printer, have at least six people hold it from both sides taking care not to hurt their back. F366 Do not place or transport the printer with load placed only at the center of the printer. Otherwise the printer can be deformed or damaged. F367 When tilting the printer, place a cardboard or blanket on the floor to prevent damage to the printer.

If the printer is supported at any other location, the printer may be damaged or deformed.Allowed tilting angle Do not tilt. Ink consumption No ink is consumed. Ink tank It may be installed or removed. F372 9 Install the belt stopper. F373 When mounting the belt stopper, be careful not to move the carriage by applying too much pressure. If the carriage moves when the heads are capped, the rubber part of the cap may touch the nozzles on the heads and damage the print head. Ink tank Remove all ink tanks. F376 8 Return the ink tank lock lever and close the ink tank cover. Ink drainage is performed automatically. F378 12 Install the belt stopper. F379 When mounting the belt stopper, be careful not to move the carriage by applying too much pressure. If the carriage moves when the heads are capped, the rubber part of the cap may touch the nozzles on the heads and damage the print head. F380 T314 Service Mode. In spite of this precaution, shocks incurred during transportation can damage the printhead. Print the nozzle check pattern before making preparations for transporting the printer, pint the nozzle check pattern again after installing the printer at the new lo cation, and then compare the two printouts. When moving the printer, have at least six people hold it from both sides taking care not to hurt their back. F388 Do not place or transport the printer with load placed only at the center of the printer. Otherwise the printer can be deformed or damaged. F389 When tilting the printer, place a cardboard or blanket on the floor to prevent damage to the printer. If the printer is supported at any other location, the printer may be damaged or deformed.Allowed tilting angle Do not tilt. Ink consumption No ink is consumed. Ink tank It may be installed or removed. F394 9 Install the belt stopper. F395 When mounting the belt stopper, be careful not to move the carriage by applying too much pressure.

If the carriage moves when the heads are capped, the rubber part of the cap may touch the nozzles on the heads and damage the print head. Ink tank Remove all ink tanks. F398 8 Return the ink tank lock lever and close the ink tank cover. Ink drainage is performed automatically. F3100 12 Install the belt stopper. F3101 When mounting the belt stopper, be careful not to move the carriage by applying too much pressure. If the carriage moves when the heads are capped, the rubber part of the cap may touch the nozzles on the heads and damage the print head. F3102 T319 Service Mode. Dont never loosen or remove the red screw, because normal operation and print cant be done if it is loosened or removed. F421 l Upper cover Removing the upper cover. F429 8 Disconnect five flexible cables from the carriage relay PCB. 9 Cover the joint of the ink tube unit in a plastic bag or the like to prevent ink splashing and leakage, and seal the mouth of the bag.F432 15 Remove the cutter unit, and lay the caterpillar of the ink tube unit on its side, and then remove the carriage from the right side of the printer. Flaws on the linear scale could result in malfunctioning. After detaching the joint between the ink tube unit and the ink tube of the ink tank unit, the joint might become easy to come off by the ink that has adhered to it. In that case, please wash the joint by alcohol and remove the adhering ink. In that case, please wash the joint by alcohol and remove the adhering ink.Therefore, be sure to note the following points when handling the roller. Do not hold the roller with one hand or warp its shape. Do not touch the roller surface coated surface. F448 b Action to take after replacing the head management sensor Because the distance between the head management sensor and the carriage unit is varied from one unit to another, the printer has its optical axis corrected to adjust the nondischarging nozzle detection position prior to shipment.

Both PCBs hold vital information, such as settings and a carriage drive time. Before either PCB is replaced, such information is temporarily saved through internal communication with the other PCB and is automatically written to the new PCB when it is installed. Moving carriage when the power of the printer is off, releasing carriage lock pin and uncapping must be done manually. 1. F450 If the printhead fixer lever is released with the ink supply valve to an ink tube open while the tube is filled with an ink, the ink in the tube could flow backward to the ink tank unit, leaking through the hollow needle in the ink tank. Be sure to drain the ink from the ink passage to prevent ink leakage before disassembling any component of the ink passage or reshipping the printer. 1. Smear the grease lightly and evenly with a flat brush. Dont apply the grease to locations other than those designated. Unwanted grease may cause poor print quality, take particular care that grease does not get onto the wiper, cap, or the linear scale. Electrostatic charges could make the internal components susceptible to dirt, resulting in degraded print quality. Do not use flammable solvents, such as thinner and benzine, on the printer. Solvents coming into contact with any electrical parts inside the printer could result in fires or electrical shock hazards. The code of warning and error is shown by combining alphanumeric characters of eight digits and four digits. Call For Service. If there is any problem, replace the head relay PCB. 6 Replace the carriage relay PCB 7 Replace the main controller PCB 6.1.2.10 Prepare for parts replacement. If the value is wrong, replace the multi sensor. 5 Replace the head relay PCB. During printing, paper was fed out of the way. During paper feed, delivery or printing, the feed motor has gone out of synchronization.. Ink tank, ink tank unit, or main controller PCB. Suction fan or main controller PCB 1 Suction fan 2 Replace the main controller PCB. 6.1.3.

33 030300002E21 IEEE1394 Error 00137192 iPF9000. If the operation is abnormal, replace it. 3 Replace the main controller PCB 6.1.4 Troubleshooting When Service Call Errors Occur 6.1.4.1 E1414046 Recovery systems count error 00137243 iPF9000 The machine detected that the rotation count of the purge unit reached the specified value.. When a roll media is used, the layout is optimized according to the media width. Sensor and switch status is shown in the display.Default OFF 2 RTC Set RTC real time clock after replacing the lithium battery on the main controller PCB.When a roll media is used, the layout is optimized according to the media width. Sensor and switch status is shown in the display.Cutter replacement count Times Count of executing cutter replacement mode MTC EXC. Maintenance cartridge replacement count Times HEAD R EXC. Printhead R replacement count Times HEAD L EXC. Default OFF 2 RTC Set RTC real time clock after replacing the lithium battery on the main controller PCB.When a roll media is used, the layout is optimized according to the media width. Sensor and switch status is shown in the display.Cutter replacement count Times Count of executing cutter replacement mode MTC EXC. Maintenance cartridge replacement count Times HEAD R EXC. Printhead R replacement count Times HEAD L EXC. Default OFF 2 RTC Set RTC real time clock after replacing the lithium battery on the main controller PCB.Printhead Adjustment Pattern A11 A13 A15 A17 A19 A21 A23 A10 A12 A14 A16 A18 A20 A22 A24. Printhead Adjustment Pattern A11 A13 A15 A17 A19 A21 A23 A10 A12 A14 A16 A18 A20 A22 A24 E10 E11. By executing this mode, Backup data of the settings and counter values stored in the maintenance cartridge relay PCB are moved to the new main controller PCB. If an error occurs during printing, the printer status is also displayed on the status monitor of the printer driver.

The following three types of errors are displayed on the display Warning Status where the print operation can be continued without remedying the cause of the problem. Replace the ink tank. PC ink tank is empty 018103061406 Ink tank is empty. Replace the ink tank. MBK ink tank is empty 018103051408 Ink tank is empty. Replace the ink tank. GY ink tank is empty 018103151409 Ink tank is empty. T83 Code Status 03010000200C Media leading edge not detected 03010000200D Cut sheet end cannot be detected 03010000200E Media too small 03010000200F. T84 Code Description Display message E1414046 Recovery system rotation count reached 50,000. ERROR Exxxxxxx Call

For Service E1444047. Service Manual. Parts Catalog No code number is displayed when a warning occurs. If an error occurs during printing, the printer status is also displayed on the status monitor of the printer driver. Parts Catalog. Free Download Canon iPF9000 Series. Service Manual. Parts Catalog All trademarks and copyrights in the published materials belong to their respective owners. You can print, zoom or read any diagram, picture or page from this Service Manual. Every chapter on this manual is fully detailed and contain all the simulation codes, trouble codes, maintenance procedures, reset procedures, diagnose procedures of Canon imagePROGRAF iPF9000 imagePROGRAF iPF9000S imagePROGRAF iPF9100. You can find easily everything what do you need. To see what contain, please read table of contents Check ink tank 6.1.2.5 Close Ink Tank Cover 6.1.2.6 End of paper feed. Cannot feed paper more 6.1.2.7 Paper Type Wrong 6.1.2.8 GARO W12xx 6.1.2.9 Check printed document 6.1.2.10 Prepare for parts replacement. Call for service 6.1.2.11 Parts replacement time has passed. You must have JavaScript enabled in your browser to utilize the functionality of this website. Please, log in or register Use single quotes for phrases. By parts code you can check what other devices it is used.

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