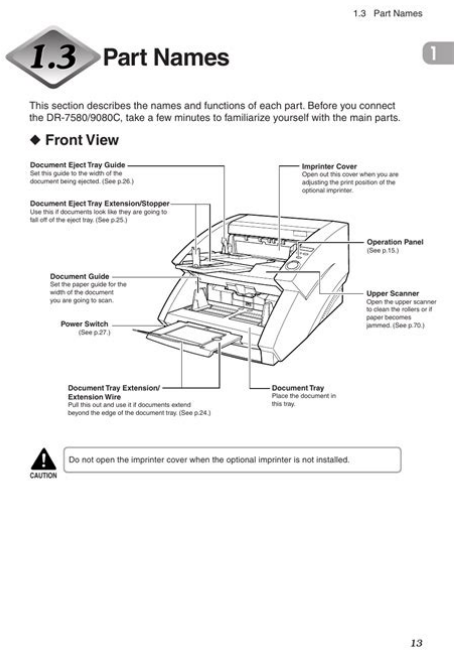
# 9080c manual

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Power OFF in Emerg e ncies W hen abnorm al no ise, sm oke, heat or odor occur, tur n the po wer OFF imm ediately and unplug the power cord. As it m a y cause inj ury, be c aref ul not to get clothing ti es, lo ng hair, etc. caught in the machine. If this happens, turn the po wer OFF imm ediatel y. Also, do not insert your fin gers in the f eed section while feed ing doc um ents. 2. Electromagn etic Inter ference Countermeasures This mac hine com pli es wit h the electrom agnet ic interf erenc e standards VCCI A, FCCA, etc.. Ho wever, the us er m ight have to carr y out separ ate cou nterm easur es if the machine c auses electrom agnet ic inter ferenc e. Do not cha nge or m odif y this m ac hines specif ications. If this has be en carr ied out, its use ma y be forcibl y disc ontin ued on site. If the machine is disas sem bled and reas sem bled, follo w the instruc tions descr ibed in th is m anual or in the Service I nfo rmation Bulletins. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions 1 This device may not cause harmful interference, and 2 this device must accept any interfernce received, inculuding interference that may cause undesired operation. This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Cet appareil numerique de la classe A respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada. CAUTION L ABEL 120 V machin es 3. Users M anual Read the us ers m anua l thoroug hly bef ore using this m achine. 4. Ink Cartridge Obey the hand ling instr ucti on writte n in the pack age of the ink car tridge. 5. Disposal W hen disposing of the pro ducts and parts, obey loc al regu lations. For the deta ils, ref er to the us ers m anual. 1. Exterior W ipe the covers with a cloth tightl y wrung with water or neutr al det ergent s oaked, and th en wipe dry. 2.

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Document Sensor Take off the dus ts gather ed on the docum ent sensors with a b lower or eq uival ent. 3. Reading glass W ipe the readin g glass Up per, Lo wer with a cloth tightl y wrung with water and then wipe dr y. 4. Feeder A ssembly W ipe the follo wing roll ers with a cloth ti ghtl y wrung with water and then wipe dry 1 Pick up ro ller 2 Feed ro ller 3 Retard rolle r 4 Platen r oller 5 Feeder r oller 5. Cleaning of Shading plat es Even when t he readi ng gla ss and the r ollers are cleaned, if the

s can ned im age is streak ed, the shading p late m ay be stain ed. W ipe the shading pl ates U pper, L ower with a cloth t ightl y wrung with water and t hen wipe dr y. Note Since the m achine is b eing turned ON, be caref ul to procee d the work. And, tak e car e so that the shading plates m ay not creased. 6. Po wer Cord After the p ower cor d is plu gged in to the outlet for a long p eriod of tim e, dust will coll ect on t he connecte d part an d cou ld cause a f ire or electr ic shocks. To p revent th is, clea n it reg u larly. 7. Imprinter guide plate If ink adheres to the guide plate loc ated in the inner par t of the im pr inter, it m a y contam inate the docum ent during scann ing op eration. W ipe the guide plate with a cloth t ightly wrung with water or neutral det ergent s oaked, and th en wipe dr y. T o prevent t his, cl ean it r egula rl y. 8. Imprinter ink ca rtridge W ipe softly the i nk adher ed to th e ink nozzle of the ink c artridges with a lintf ree cloth or paper A cotto ntipped s wab is also ac ceptab le. Be caref ul not to wipe or touc h the electr ical con tact part when wiping the ink. Im age pr ocessor Controls the rea ding s ystem, proc esses the im age data f rom the readi ng system, and outputs the d ata to the persona l com puter. Feed co ntroller Contr ols the f eed s ystem and im age proces sor.

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T able 2101 T he docum ent tra y contr ol PCB assem bly controls the doc um ent tray base d on signals from the m ain CPU PCB ass em bly and the pick up contro l PCB. Option Mechanical counter CNT1 Feed motor Pickup motor M3 M2 PS7 PS9 PS2 PS3 SL2 F ront registration L sensor F ront registration R sensor F ront registration sensor PCB Pickup sensor Imprinter door sensor Back registration sensor PS Back registration sensor PCB Shading solenoid Upper side Upper unit door sensor PS5 PS6 PS10 Leftend sensor Rightend sensor Leftend sensor PCB Rightend sensor PCB Pickup control PCB 0SUB Pickup solenoid SL1 Imprinter PCB Option Endorser Option P ower s witch SW 1 DC power supply PCB Main CPU PCB MAINDCON Ultrasonic sensor PCB USS1 Ultrasonic receiving sensor Ultrasonic drive PCB USS2 Ultrasonic transmitting sensor F ront reading unit Back reading unit Operation panel PCB FM1 M1 Ehaust fan Main motor SL3 Staple photosensor Document tra y control PCB 10SUB Shading solenoid Lower side Staple LED PCB PS4 VR1 PS1 CL1 M6 M5 Document sensor Document guide width sensor Document tra y HP sensor Registration clutch Document tra y motor Retard motor Fig. 2104 Feed con dition 1 Midd le speed feedi ng, 2 S tandard f eeding, 3 Two doc um ents, 4 No tem porar y stop F eeding of first document is star ted here. F eeding of second document is star ted here. F eeding is stopped. 1 Document tray HP sensor 2 Document tray motor 3 Pickup sensor 4 Front registr ation R sensor 5 Front registr ation L sensor 6 Back registration sensor 7 Pickup motor F eed motor 9 Pickup solenoid 10 Retard motor 11 Registration clutch 12 Main motor Note 1 Black area indicates the activ ating condition and gra y area indicates the condition of sta ying at the present position with the torue dropped down. Note 2 If there is a difference in the timing mark ed, it indicates the occurrence of ske wing. Fig.

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2105 The d ocum ent tra y is raise d b y a pres et amount after the doc um ent tray HP sens or is switche d f rom O N to OFF. W hen the docum ent tra y is raised a nd the pick up sens or detects t he doc um ent, the docum ent tray m otor stops and t he main m otor is start ed. W hile the p ick up solenoi d is ON, the pic k up roller re tracts f rom the docum ent. W hen roller desk ew sk ew correcti on is s elected, the doc um ent is pressed ag ainst the regis tratio n roller to p erform sk ew correct ion. After the back registr ation sens or detec ts a doc um ent, the feed m otor stops. Since the pick up sensor is turne d off, no docum ent is detected on the docum ent tra y. After the end of the doc ument pas ses the bac k r egistration s ensor, th e pick up motor, f eed motor, retard m otor and m ain m otor are tur ned OFF a given period of time af ter the sensor detects n o docum ent. The docum ent tra y motor turns in rever se to lo wer the docum ent tray. A given p eriod of tim e after the d ocum ent tra y HP sensor switches from OFF to O N, the docum ent tray m otor is turn ed OFF.

In s low speed feed ing, the s econd docum ent is pic ked up a g iven tim e af ter both se nsors detect no doc um ent, after the e nd of th e firs t docum ent pass es the bac k r egistration s ensor. T hus, t he docum ent f eeding can m aintain s pecific interv als f or high s peed, m edium speed, an d slo w speed f eedin g. T able 2102 The reading s ystem cons ists of the im age reading units and pl aten rollers. The f ront reading unit r eads the front s ide of the docum ents and the back reading unit reads the back side. T his c onfig uration e nables the unit to read both the f ront and bac k s ides of a docum ent at one t ime us ing a singl e pass.

Thes e reading units illum in ate the docum ent from different dir ections using t wo LEDs to prevent s hado ws, and the a nalog im age d ata are internal ly con verted to 10bit digita l signa ls an d then sent to t he im age proc essor on the main CPU PCB. The plat en rol lers ho ld the docum ent tig htl y against th e rea ding glas s to k eep it in f ocus. Back platen roller Upper reading roller F ront reading unit Document Reading glass Reading glass F ront platen roller Lower reading roller Back reading unit Fig. 2201 Theref ore, two spac ers are attach ed to th e platen rollers o utsid e the im age r eading are a, and t he outer di ameter of the spac ers is a litt le bi t larger than that of the platen ro llers. T his pr ovides a small gap b etwe en the plat en rollers and the reading g lass when th e platen rol lers ho ld the docum ent against the re ading g lass. Refer to F ig. 2203 Spacer Platen roller Reading glass Spacer Fig. 2203 T he valid r eading width is 305 mm, and the number of va lid p ixels is 7 260. T he optical r esolu tion c an be switc hed b etween 600 dpi and 300 dp i b y an extern al signa l. The m ain featur e of this re ading unit is t hat it provides l ighting f or the im age sens ors us ing t wo LEDs, li ghting the doc um ent from both th e right and lef t sides as sh own i n th e figur e. T he li ght guides are ar ranged on t he right an d left s ide, and a red R, gree n G, a nd blue B LE D is ar ranged for eac h light gui de on t he im age s ensor PCB. LEDs light illum inate the docum ent through the light gui des, and the l ight ref lected from the docum ent enters the im age sens ors thro ugh th e lens arra y. T he im age sen sors c onvert the light to an analog s ignal. In the binar y or grayscale mode, the im age is read with c om posite li ght g enerated by light ing a ll the RGB L EDs sim ultaneou sly. In th e color m ode, the RGB LEDs are se quen tiall y lit, and the im age data is r ead se parate ly for eac h c olor.

I n the dropout co lor m ode, onl y the LEDs of the designate d col or are lit.The shading plate is a white sheet, 0.1 mm thick, housed n ear the p laten ro ller, and is norm ally not visi ble. W hen shadin g is perform ed, the sha ding s olenoid p ulls in, so that the sha ding p late cou pled to t he gear pops out o ver the p laten ro ller. The lower s hading plate carr ies out the shading f or the f ront re adi ng unit, a nd the upper sh ading pla te does the sam e f or the back reading unit. W hen the shadi ng is completed, the sh ading plat es move bac k to their orig inal posit ions. Shading solenoid Upper side Upper shading plate Back reading unit Back platen roller Fig. 2205 2 Sha ding plat e tim ing The operat ion of the s hadi ng plat es is carried o ut using t he tim ing sho wn belo w. a. when the po wer is on b. after the u pper uni t is open or closed c. after rec overing fr om power saving mode d. at the begi nning of batch pr oces sing e. when f eeding is star ted, af ter no feeding f or 10 m inutes, dur ing batchtob atch proc essing At the p oints a, b, and c, LED intensit y is adjusted. At d a nd e, white level adj ustm ent gain a djust ment and bl ack le vel adjustm ent offs et adjustm ent are perf orm ed accor ding to the LED i ntensit y set at a, b, and c. The LED intensit y adj ustment is c arried out by chang ing t he light ing ti m e of the LED. W hen the shading plat e pops out at points a, b, and c, th e LED lighting tim e under the black andwhit e sam e for gra yscale and color cond itions ar e determ ined b y the reading u nit an d saved. In this model, the white and blac k level adjustm ents ar e perform ed by the readi ng unit for eac h picture e lem ent, and the adjustm ent value is s aved on the s ens or drive PC B of the readi ng unit. The vari ous drive ro llers are r otated by motor s via gear s and t iming be lts. For contr olling the d ocum ent feed, vari ous sensors are arran ged in nec essar y positions of the system.

T he arr angem ent of the s ensors is shown in F ig. 2 301, 230 2 and 2303.The arm s for supporting

the doc ument tr a y are attach ed to t he four c orners of the box unit. The roller s attache d at the front ends of the arms are fitted to the docu ment tr ay. W hen the arms rotate in a c lockwise direct ion as the y are laid do wn Ref er to F ig. 2 304, t he doc um ent tray is r aised up. W hen the arm s r otate in a c ounterclock wise directi on as t he y stand ve rticall y Ref er to Fig. 2305, the docum ent tra y is lowered. Thus, moving the arm s of the box unit enabl es the raising and lo wering of the doc um ent tray. Of the f our arm s, onl y the tw o arm s fix ed to the righte nd gear s haft are coupled t o the g ear. Document tra y motor Document tra y HP sensor Document sensor Document tra y Light bloc king plate Document Document guide Pickup sensor Pickup roller Arm Arm Bo x unit Fig. 2304 Arm Arm Fig. 2305 At the sam e tim e, the rais ing of the docum ent tray is stopped. 5 Af ter that, the pic kup m otor and f eed m otor are starte d sim ultaneous ly to feed t he docum ent. Next, the l owering of the d ocum ent tray will be expla ined. 1 W hen the docum ents on the doc ument tr a y run out, the p ick up sensor de tects no docum ent. 2 Af ter a given t ime, the doc um ent tra y motor begins to r otate in rever se. 3 The f ront and b ack arms fixed to the rightend g ear shaf t begin to r otate in a countercloc kwise direct ion as the y stand vertica lly. At the sam e tim e, the doc um ent tray begins to drop down. 4 T he light b lock ing plate m oves, switchi ng the docum ent tray HP sens or from OFF to O N, and the doc um ent tray is stoppe d. S ince the t orque l im iter is m ounted on the dri ve tran sm ission as sem bly of the retard rol ler, when th e fric tion of the feed roller and the doc um ent exc eeds th e spec ified value, the r etard r oller begins to r otate in th e same f eeding dir ection as t he feed ro ller. As sho wn in Fig.

2306 a, when over lapped docum ents enter into t he spac e bet ween the f eed roller and the r etard ro ller, the docum ent in contact with the f eed roll er is f ed in the f eeding direct ion, and the ret ard rolle r rotates in the reverse direct ion s o that th e docum ent in contac t with the re tard ro ller is pushed back wards. As shown in F ig. 2306 b, once a s ingle docum ent rema ins, the re tard roller rotates in conjunc tion with the f eed r oller to f eed the docum ent. W hen the B ypass Mode k ey on the opera tion panel is pr essed, or Manua l Feed is selec ted on the com puter, the dri ving of the feed roller is turned O FF and th e retar d roller beg ins to r otate in the f orward dir ect ion, inva lidat ing the separation f unction. F eed roller Retard roller T orque limiter a. b. Fig. 2306 As such, it prevents stapled docum ents f rom being torn apart. Fig. 2307 sho ws a stapled docum ent jumping u p due to the pick up r oller. Pickup roller Staple Documents Fig. 2307 Fig. 2308 s ho ws the con figur ation of the staple det ectio n. The s taple detectio n consis ts of staple LEDs and a staple photos ensor, arranged on both sides of the docum ent pick up opening. If there is no staple in t he docum ents, the ligh t em itted f rom the LEDs is rec eived by th e photos ensor. If the stapled docum ents j ump up, t he l ight gets block ed and the doc um ents are f ound to be stapled, r esulti ng in sto ppin g the f eeding. The f ive staple LEDs are m ounted on the staple L ED PCB. Docum ent curl m ust be 3 mm or less in height and the doc umen ts cannot be creased. It is pos sible to chan ge the level of detection accurac y with the user m ode. As sho wn in Fig. 2309, t he f ront reg istrati on sensors consis t of the left s ensor L and t he right sensor R, and ar e m ounted in fr ont of the registrat ion rol ler. If no s kewing oc curs, t here is no diff erence in th e tim ing for both sens ors detecting the docum ent.

However, if the docum ent is sk ewed, one o f the sens ors detects the docum ent ear lier and t here is a dif ferenc e in the timing of detect ing the doc um ent. As the skew am ount is increas ed, the dif ferenc e is also increased. T he diff erence af fects the tim e of the skew correcti on p erfo rmed by th e regi stra ti on roller, a nd an incr eased dif ferenc e will prolon g the sk ew correcti on tim e. The tim e tak en from the tim e both sensor s detect the docum ent toget her until l the registrat ion r oller begins to r otate is the tim e required f or the s kew corr ect ion. As sho wn in Fig. 2 310, the skew cor rection is perf ormed at th e reg istrat ion roller area. W hen the fee d roller feeds the docum ent in t he fee ding direction, either the rig ht or lef t fr ont end of th e docum ent runs i nto the regist ration ro ller. Sinc e the registr ation rol ler re mains stopped, the docum ent is turned on the fore end of the docum ent run int o the regi stration ro ller s o that the sk ew is cor rected. Ref er

to Fi g. 2310 a W hen the sk ew correc tion i s perf ormed af ter both sensors detect the doc ument together, the registrat ion roller begi ns to rotate a nd the docum ent is f ed without bei ng sk ewed. Ref er to 2310b F eed direction Document F ront registration R sensor F ront registration L sensor Registration roller Fig. 2309 F eed direction Document T ur ns this wa y Registration roller stopped Registration roller rotating a. b. Fig. 2310 T he lef tend se nsor is mounted on the left end sensor PC B an d the rightend s ensor is m ounted on th e righte nd sensor PCB. W hen sk ewing is detecte d by both sensors, the docum ent f eeding is stoppe d. F eed direction Document Registration roller Rightend sensor Leftend sensor Fig. 2311 6 Ultrasonic Double Feed Detection Fig. 2312 sho ws the do uble f eed de tection mechanis m by ultraso nic.

The doub le f eed detect ion b y ultras onic us es the ultrason ic tr ansm itting s ensor and the ultrason ic rec eiving s ensor. The ultras onic trans m itting sens or is connecte d to th e ultrason ic drive PC B, whi le the ultrason ic recei ving se nsor is connect ed to th e ultrason ic sens or PCB. T he receivi ng se nsor receives the u ltrasonic signal transm itted by the transm itting sens or to ga in a s pecific signal leve l. W hen overlapping docum ents ar e fed, the s ignal level is diff erent f rom when proper ly feed ing a single docum ent. T he unit inter prets this diff erence as a double feed and dis pla ys an err or. Note W hen the lengt h of the over lappin g por tion of the docum ents is less than 5 0 mm, the double fee d m ay not be d etected. Ultrasonic transmitting sensor Ultrasonic receiving sensor Document f eed direction Fig. 2312 The front r egistration s ensors are di vided int o the l eft sensor L and the right s ensor R, and are mounted on the f ront re gist ration s ensor PCB. The bac k registr ation sens or is m ounted on the back registration sensor PCB. 1 Earl y reach j am P01 The f ront edge of the f ollow ing docum ent was detected af ter the en d of th e procee ding docum ent is det ected bef ore the m otor finishes driving t he sp ecif ied le ngth. 2 Residu al jam P02 The end of the docum ent is not det ected eve n though the d ocum ent has b een fed f or a specif ic length after the front ed ge was detected. 3 Fast feed jam P03 The end of the docum ent is detect ed bef ore the docum ent has been f ed f or a specif ic length af ter the f ront edge was det ected. This mode shou ld not be availab le to the users. The m echanical feed mode c an be activat ed by pressin g the ke ys on the operat ion pan el, as follo ws a. T urn on t he po wer s witch with the s tart ke y pressed. b. Continu e press ing the start k ey for about one seco nd. c. Press th e stop key.

If the star t ke y is pres sed whil e in t he mechanic al feed m ode, with docum ents in the docum ent tray, th e m achine will f eed the docum ents at a f eed speed determ ined b y the SCSI ID set on t he DIP switch locat ed at the computer connect ion. T able 2301 T able 2401 lis ts the function of each IC shown in the block diagram.T able 2401 For ex am ple, when the reso lution s et i n the pers onal com puter is 300 dpi or les s 300, 2 40, 200, 150, 1 00, th e optica l resolut ion of the u nit is set t o 300 dpi. And, wh en 400 dpi or 600 dp i is s et on t he computer side, 600 d pi is set on the r eadin g unit side.Ho wever, s ince the sof tware is not a vailabl e for th e earl ier m odel, b oth process ors ser ve to c onduct th e proc essing of image data. A m ulti strea m func tion can output diff erent m odes of data f rom a single s can. T he descripti on belo w desc ribes the im age process ing in the ear lier model where th e mu ltstream function is not availab le. Image r esolut ion con version is carr ied out b y image pr ocess or 1. F or c onvertin g reso lutio n, one of two m ethods, thinn ingout and s moothin g, is used accor ding to t he im age m ode. T he smoothing pr oc ess also helps to reduce m oir e patterns. Image pr ocess or 2 handles brig htnes s adjustm ent, contr ast adju stment, and gamm a correcti on. Image pr ocess or 3 handles edge emphas is, sim ple binarizing, er ror dif fus ion, and autom atic brightnes s adjus tment. T he autom atic bright ness adjustm ent is va lid f or sim ple binar y mode. In the JPEG module, t he gr ayscale and c olor data can be c om pressed. W hen J PEG is selected, the im age data size is red uced b y compressi on within thi s machine so that it can be transf erred to t he person al computer in les s tim e. As a result, m or e documents can be sc anned in a given tim e. Finall y, process ed image d ata are sent f rom the DMA contr oller to the com puter either through the SCSI or USB interf ace.

Other im age proc essing is carr ied out on the persona l com puter. Af ter th e rearrangem ent, the dat a woul d be “ R1, G 1, B1, R2, G2, B2, R3, G3, B3, R4, G4, B4, R5, G5, B5 ”. R1 R2 G1 G2 B1 B2 R N G N B N R1 G1 B1 R2 R N G N B N G2 B2 a. Data output b. RGB rearrangement 1st pix el 2nd pix el Nth pix el Fig. 2502 The r esolution in the m ainsc anning directi on is t he s am e as in th e su bsc anning directi on. The optic al resol ution main scannin g directi on of the re ading unit ca n be switc hed between 6 00 and 3 00 dpi. T heref ore, when 40 0 dpi is s elected, the res olution is converte d fr om 600 dpi, and when 240 dpi or less is selecte d, it is convert ed from 300 dpi.W hen c onverting to 240 dpi, 1 clock puls e is r emoved fr om ever y 5 pul ses. And, when co nverting t o 400 dpi, the standard 600 dpi c lock i s used with 1 clock removed from ev ery 3 cloc k pulses. 123456789 1 0 11 12 34 56 78 300 dpi standard clock 300 dpi image data 200 dpi operating cloc k 200 dpi image data Fig. 2503 I n the cas e of 150 dpi, it is twice the s peed, an d in the c ase of 1 00 dpi, three tim es the sp eed used for 300 dp i. Since the t iming for rea ding the d ata from the image sens or CI S is the sa me, the resolut ion in t he s ubsc annin g direc tion c an be converted by chan ging t he feed speed. R efer to Fig. 2504 a For lo w resol ution bi nary and gra yscale modes the orig inal data f or both is gra yscale, the feed speed m us t be raised exc essivel y high. The f eed spe ed can be inc reas ed by r aising the motor speed.For gra yscale m ode, sm oothing is al wa y s perform ed becaus e the num ber of sc anned docum ents is not d ecreas ed even by sm oothing. For color m ode, Sm oothing can b e se lected by the user. W hen the op tical res olut ion of the reading unit is 600 d pi or 3 00 dpi, sm oothing to 600 dpi or 300 dp i is n ot c arried out.