ORDER NO. KMF0801403SE

Service Manual

Plain Paper Fax with Copier

Supplement-1

Model No. KX-FP701CX
KX-FP702CX

(for Asia and Middle Near East)

Please file and use this supplement manual together with the service manual for Model No.KX-FP701CX/ KX-FP702CX, Order No.KMF0708102CE.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Panasonic

1 REPLACEMENT PARTS LIST

1.1. REFERENCE CHART

Reason for Change	
*The following items (1-8) indicate the reason for change. See the "**Notes**" column for each part in **ORIGINAL AND NEW PARTS COMPARISON LISTS.**	
1. Improve performance	***a**: To enhance the quality.
2. Change of material or dimension	***c**: To share the parts with other models.
3. To meet approved specification	
4. Standardization	
5. Addition	
6. Deletion	
7. Correction	
8. Other	

Interchangeability Code		
The following items (V-Z) indicate the Interchangeability. See the "Notes**" column for each part in **ORIGINAL AND NEW PARTS COMPARISON LISTS.**		
V	Original → Early (before change) New → Late (after change)	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.
W	Original → Early (before change) New → Late (after change)	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
X	Original → Early (before change) New → Late (after change)	New parts only may be used in early or late production sets. Stock new parts.
Y	Original → Early (before change) New → Late (after change)	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
Z	Other	

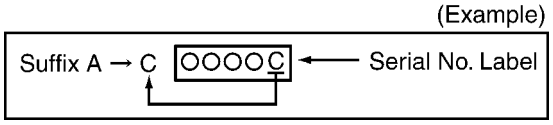
Note:
Alphabets in the "Remarks" column in the following lists correspond to the alphabets in the "Remarks" in REFERENCE CHART.

1.2. ORIGINAL AND NEW PARTS COMPARISON LISTS

■ **Change of the Suffix Code**

Suffix Code	Reasons of change
A → B	To change software version and checksum.
B → C	Head holder modification for printing light countermeasure.

Serial No.Label tells you the suffix code as follows.



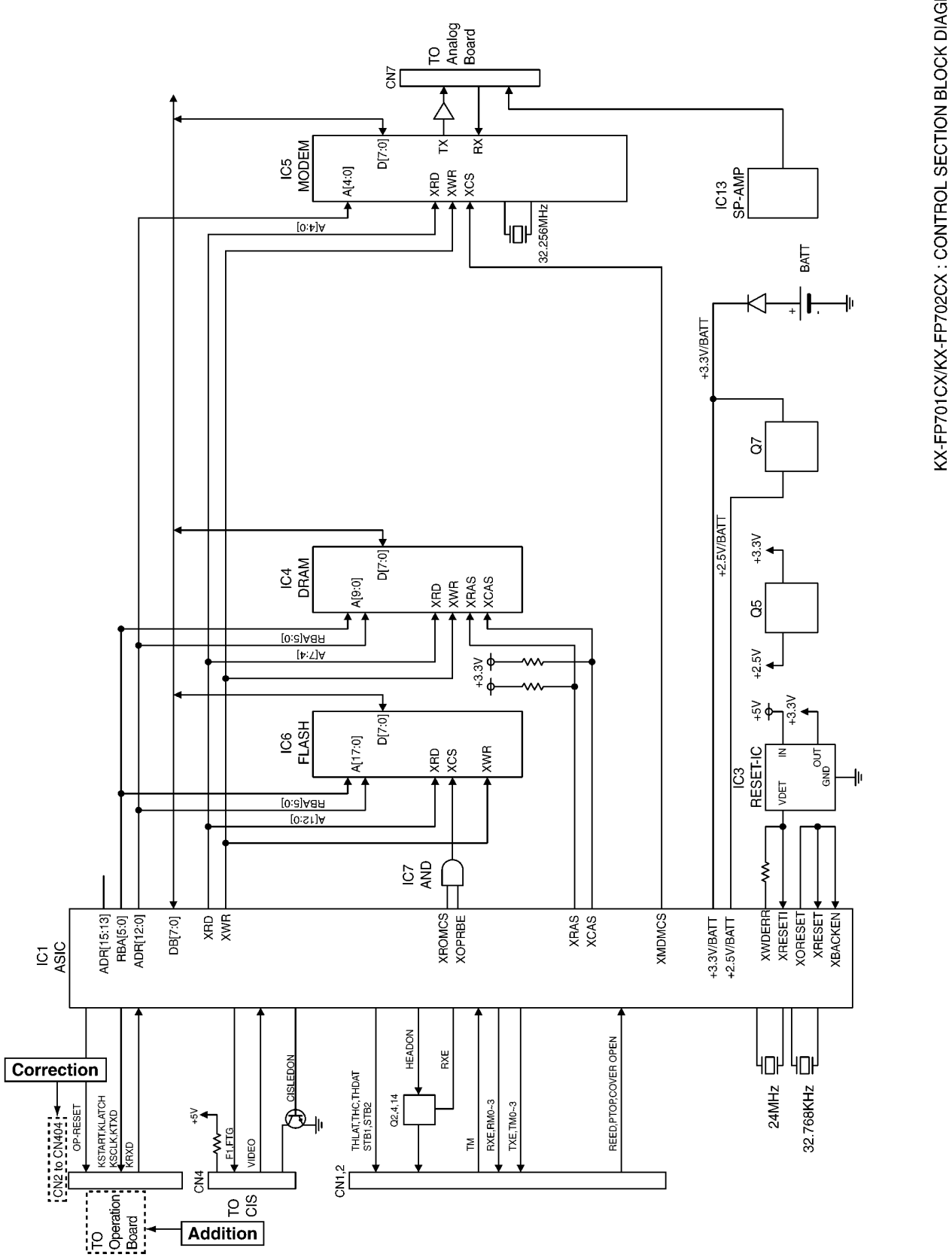
Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	**Notes**		Time of Change (Suffix)
	Original (Old)	**New**						
OPERATION PANEL SECTION								
1	PFGV1022Z	**PFGV1022Y**	TRANSPARENT PLATE	1	*a	1	W	---
UPPER CABINET SECTION								
93	PFHR1715Z	**PFHR1715Y**	GUIDE, HOLDER HEAD/L	1	*a	1	W	B to C
94	PFHR1716Z	**PFHR1716Y**	GUIDE, HOLDER HEAD/R	1	*a	1	W	B to C
DIGITAL BOARD PARTS (for KX-FP701CX)								
IC6	PFWIFP701CX	**PFWIFP701CX1**	IC (ROM) (Change 1) [Program Ver. GB21CN → GB21CP]	1	*a	1	W	A to B
IC6	PFWIFP701CX1	**PFWIFP701CX2**	IC (ROM) (Change 2) [Program Ver. GB21CP → GB21CQ]	1	*a	1	W	---
DIGITAL BOARD PARTS (for KX-FP702CX)								
IC6	PFWIFP702CX	**PFWIFP702CX1**	IC (ROM) (Change 1) [Program Ver. GBG1CN → GBG1CP]	1	*a	1	W	A to B
IC6	PFWIFP702CX1	**PFWIFP702CX2**	IC (ROM) (Change 2) [Program Ver. GBG1CP → GBG1CQ]	1	*a	1	W	---
INTERFACE BOARD PARTS								
F401, F402	K5H122200005	**K5H122Y00002**	FUSE	2	*c	4	V	---

2 CORRECTION

2.1. Block Diagram

[Changed from original section "6.3.1. Block Diagram"]

KX-FP701CX/KX-FP702CX : CONTROL SECTION BLOCK DIAGRAM



2.2. Sensors and Switches

[Changed from original section "6.5. Sensors and Switches"]

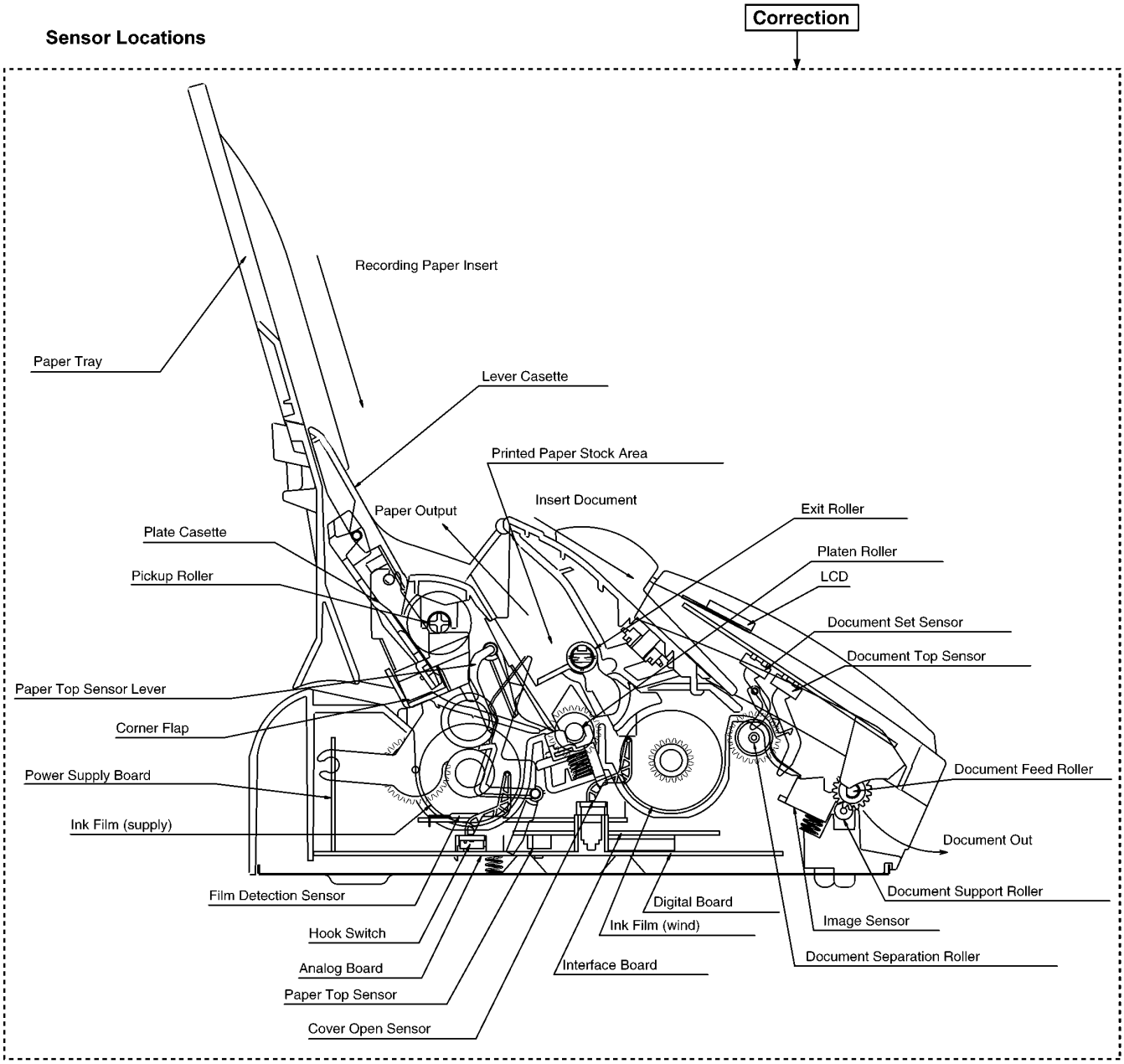
Sensor Circuit Location	Sensor	Sensor or Switch Name	Error Message
Operation Panel	SW337	Document top sensor	[REMOVE DOCUMENT]
	SW338	Document set sensor	[CHECK DOCUMENT]
Sensor P.C.Board	SW502	Cover Open sensor	[BACK COVER OPEN] ← Correction
	SW501	Film Detection sensor	[FILM EMPTY] [CHECK FILM]
Analog Board	SW101	Hook switch	———
Interface Board	PS401	Paper Top sensor	[PAPER JAMMED]

Note:

See **10Test Mode** (P.60). (#815: Sensor Check)

Sensor Locations

Correction



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2.3. Program Mode Table

[Changed from original section "12.4.2. Program Mode Table"]

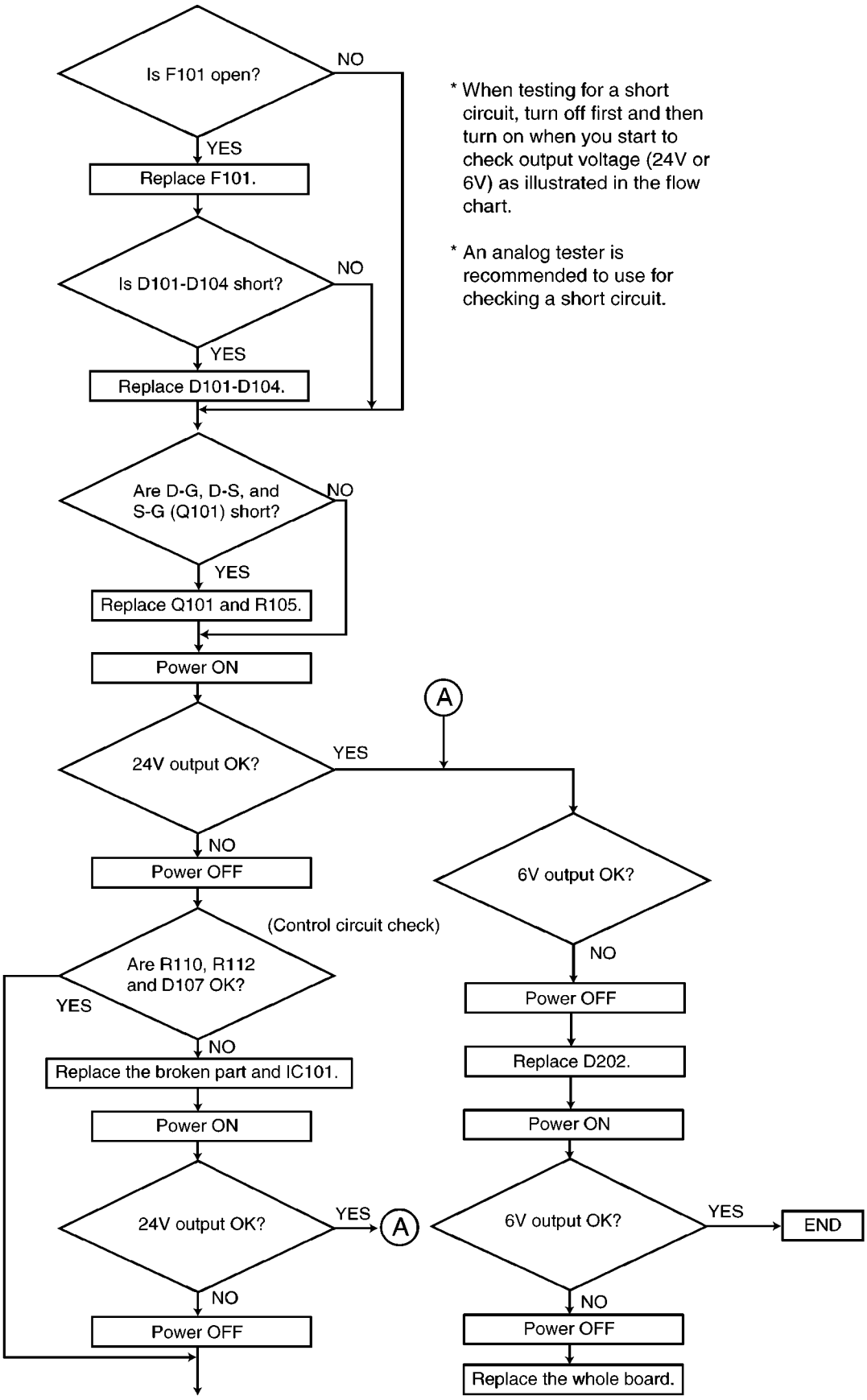
Code	Function	Set Value	Default	Remote Set-ting
068	ECM Selection	1:ON / 2:OFF	ON	OK
072	Set flash mode	1:90 / 2:100 / 3:110 / 4:160 / 5:200 / 6:250 / 7:300 / 8:400 / 9:600 / 0:80 / 10:700 / 11:900	600ms	OK
073	Manual answer mode	1:TEL / 2:TEL/FAX	TEL	OK
567	T0 timer	001~255 sec	040	OK
570	Break % select	1:61% / 2:67%	61%	OK

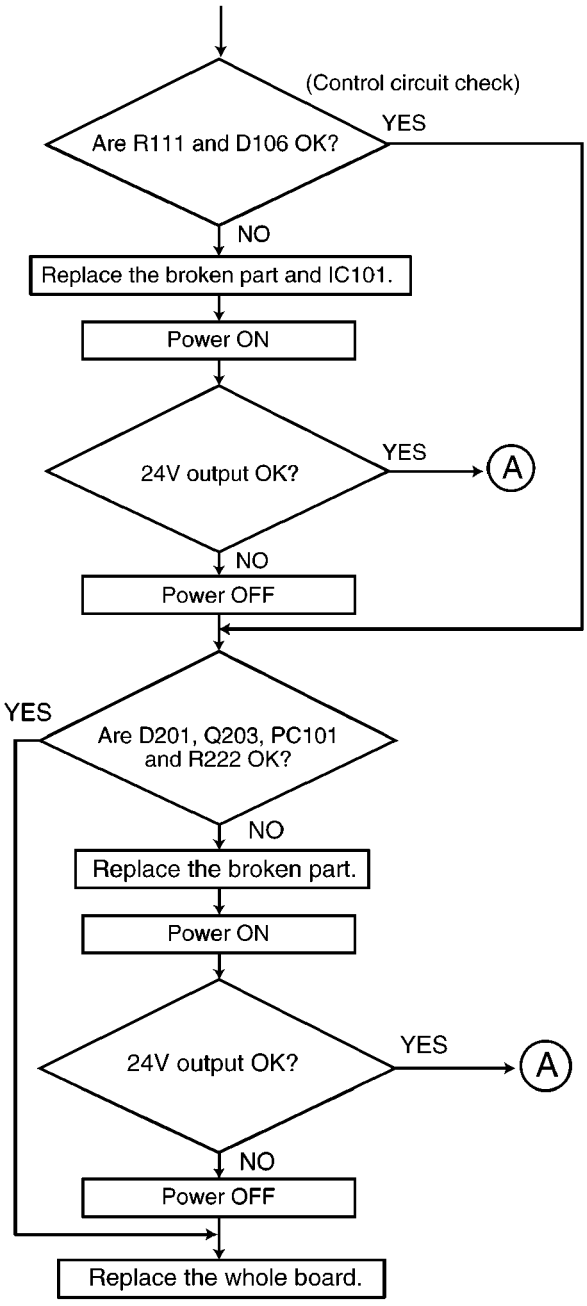
Correction

Correction

2.4. Power Supply Board Section

[Changed from original section "12.5.7.2. Troubleshooting Flow Chart"]





[Added into original section "12.5.7. Power Supply Board Section"]

12.5.7.3. Broken Parts Repair Details

(ZNR101, C106)
Check for a short-circuit in terminals.
Visually check these parts for damages.

(D101, D102, D103, D104)
Check for a short-circuit in terminal 4. If D101, D102, D103 and D104 are short-circuits, F101 will melt (open).
In this case, replace all of the parts (D101, D102, D103, D104, F101).

(Q101)
The worst case of Q101 is a short-circuit between the Drain and Gate because damage expands to the peripheral circuit of Q101.
This is due to a very high voltage through the Gate circuit which is composed of R110, R112, D107 and IC101.
You should change all of the parts listed as follows.
F101, Q101, R110, R112, D107, IC101

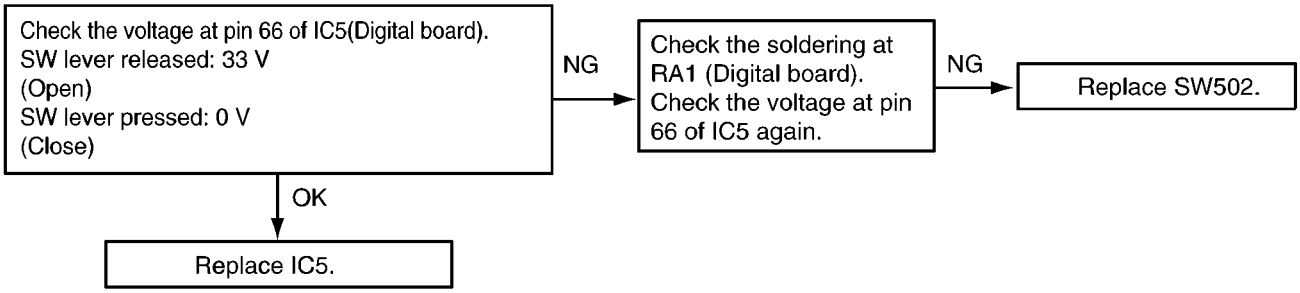
(D201)
If D201 is broken, the oscillation circuit in the power supply cannot operate. Check it with an electric tester.

2.5. Check the Cover Open Sensor (SW502)

[Changed from original section "12.5.9.3. Check the Cover Open Sensor (SW502)"]

Correction

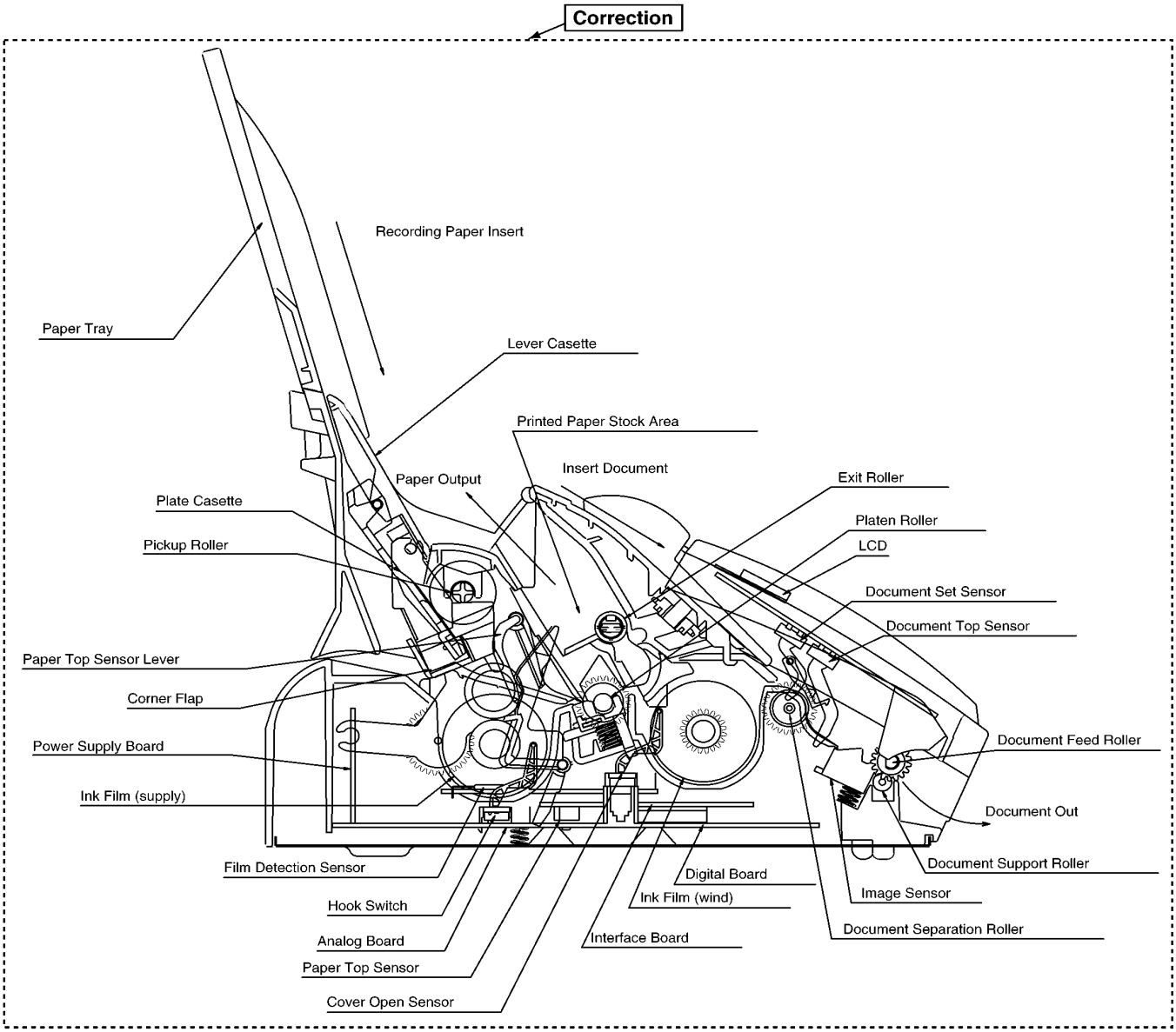
12.5.9.3. Check the Cover Open Sensor (SW502)..... "BACK COVER OPEN"



2.6. Maintenance Check Items/Component Locations

[Changed from original section "15.1.2. Maintenance Check Items/Component Locations"]

Correction



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3 CHANGES

3.1. Power Supply Board Parts

[Changed from original section "20.2.5. Power Supply Board Parts"]

Notes:

1. The marking (RTL) indicates that the Retention Time is limited for this item.
   After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing parts and product retention.
   After the end of this period, the assembly will no longer be available.
2. Important safety notice
   Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacture's specified parts.
3. The S mark means the part is one of some identical parts. For that reason, it may be different from the installed part.
4. RESISTORS & CAPACITORS
   Unless otherwise specified;
   All resistors are in ohms (Ω) K=1000 , M=1000kΩ
   All capacitors are in MICRO FARADS (μF) P=$\mu\mu$F
   *Type & Wattage of Resistor

Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ER0:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W

*Type & Voltage of Capacitor

Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCBC : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyester
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Remarks
PCB4	N0AC2GJ00006	POWER SUPPLY BOARD ASS'Y (RTL)	⚠
		(ICs)	
IC101	PFVIFA5518N	IC	S
		(TRANSISTORS)	
Q101	FQPF4N90C	TRANSISTOR(SI)	⚠
Q203	2SC3928	TRANSISTOR(SI)	
		(DIODES)	
D101	PFVD1N4005	DIODE(SI)	S⚠
D102	PFVD1N4005	DIODE(SI)	S⚠
D103	PFVD1N4005	DIODE(SI)	S⚠
D104	PFVD1N4005	DIODE(SI)	S⚠
D106	PFVDD1NL20U	DIODE(SI)	S
D107	MA165	DIODE(SI)	S
D201	SF50DG	DIODE(SI)	
D202	PFVDD1NL20U	DIODE(SI)	S
		(FUSE)	
F101	PFBAST250315	FUSE	S⚠
		(PHOTO ELECTRIC TRANSDUCER)	
PC101	PFVIPC123	PHOTO COUPLER	S⚠
		(VARISTOR)	
ZNR101	ERZV10D751	VARISTOR	⚠
		(RESISTORS)	
R105	ERX2SJR22E	0.22	
R110	ERDS2TJ470	47	
R111	ERDS2TJ150	15	
R112	ERJ3GEYJ101	100	
R222	ERJ3GEYJ102	1k	
		(CAPACITORS)	
C106	EEUGH2W470U	47	

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4 ADDITIONS

4.1. Service Function Table

[Added into original section “11.1.3. Service Function Table”]

	Code	Function	Set Value	Effective Range	Default	Remarks
Addition	599	ECM frame size	1:256 2:64	1, 2	1	----------
	625	Setting printing density	1:Default 2:Lighter 3:Darker	1~3	1	The set value "2" means lighter than default density. The set value "3" means darker than default density.
	710	Memory clear except History data				Refer to **11.1.4.Memory Clear Specification** (P.67).

4.2. Program Mode Table

[Added into original section “12.4.2. Program Mode Table”]

	Code	Function	Set Value	Default	Remote Set-ting
Addition	599	ECM Frame size	1:256 / 2:64	256byte	OK
	625	Setting printing density	1:Default / 2:Lighter / 3:Darker	1	OK
	710	Memory clear except History data	---------	---------	NG