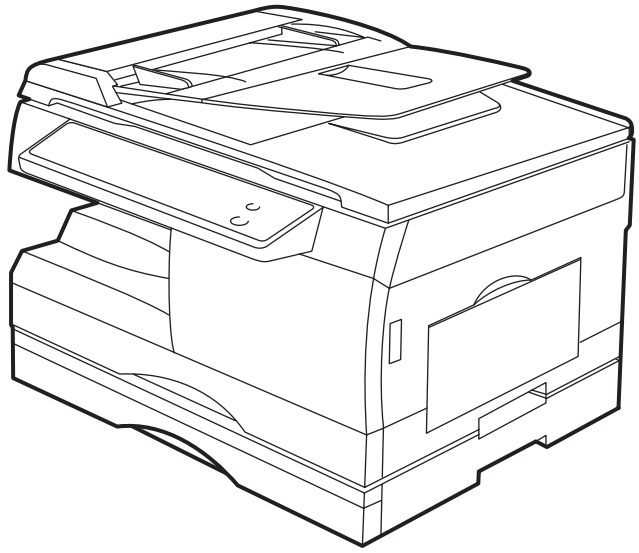
ORDER NO. MGCS010501G0

Technical Guide

Digital Copier

DP-130/150



Please file and use this manual together with the service manual for Model No. DP-130/150, Order No. MGCS010207C0.

⚠ 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.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Panasonic®

© 2001 Matsushita Graphic Communication Systems, Inc. All rights reserved. Unauthorized copying and distribution is a violation of law.

Table of Contents

1 System Description 4
1.1. Electrical Circuit Explanation 4
1.2. Power On Initial Flow Chart 21

2 Schematic Diagram 26
2.1. General Circuit Diagram System Circuit 26
2.2. CPU PC Board (V Model) 27
2.3. CPU PC Board (P/A/PA/PP/FX Model) 34
2.4. CCD PC Board 45
2.5. PNL PC Board (V/P Model) 48
2.6. PNL PC Board (A/PA Model) 49
2.7. PNL PC Board (FP/FX Model) 50
2.8. G3B PC Board. 51
2.9. LCE PC Board 56
2.10. LVPS PC Board (North America) 57
2.11. LVPS PC Board 59
(V Model except North America)
2.12. LVPS PC Board 61
(P/FP Model except North America)
2.13. LVPS PC Board (Taiwan) 63

3 Electrical Circuit Diagram & Parts List 65
3.1. Country Codes 65
3.2. Main CPU PC Board (FFPWB0665 for DP-150FX/FP) 66
Main CPU PC Board (FFPWB06651 for DP-150A)
Main CPU PC Board (FFPWB06652 for DP-130P/150P)
Main CPU PC Board (FFPWB06653 for DP-150PA)
3.3. Main CPU PC Board (FFPWB06641 for DP-150/130) 87
3.4. Control Panel PC Board (FFPWB0667 for DP-150/130) 96
Control Panel PC Board (FFPWB06671 for DP-150A/150P/150PA/130P)
3.5. Control Panel PC Board (FFPWB0668 for DP-150FP/FX) 100
3.6. CCD PC Board (FFPWB0666) 104
3.7. LCE PC Board (DZEP000441) 107
3.8. Main LVPS PC Board (FFPWB06691 for North America) 109
3.9. Main LVPS PC Board (FFPWB06692, DP-150 except North America) 114
3.10. Main LVPS PC Board (FFPWB06694, DP-150A/P/FP except North America) 119
3.11. Main LVPS PC Board (FFPWB06695 for Taiwan) 124
3.12. G3B PC Board (FFPWB06711) 129

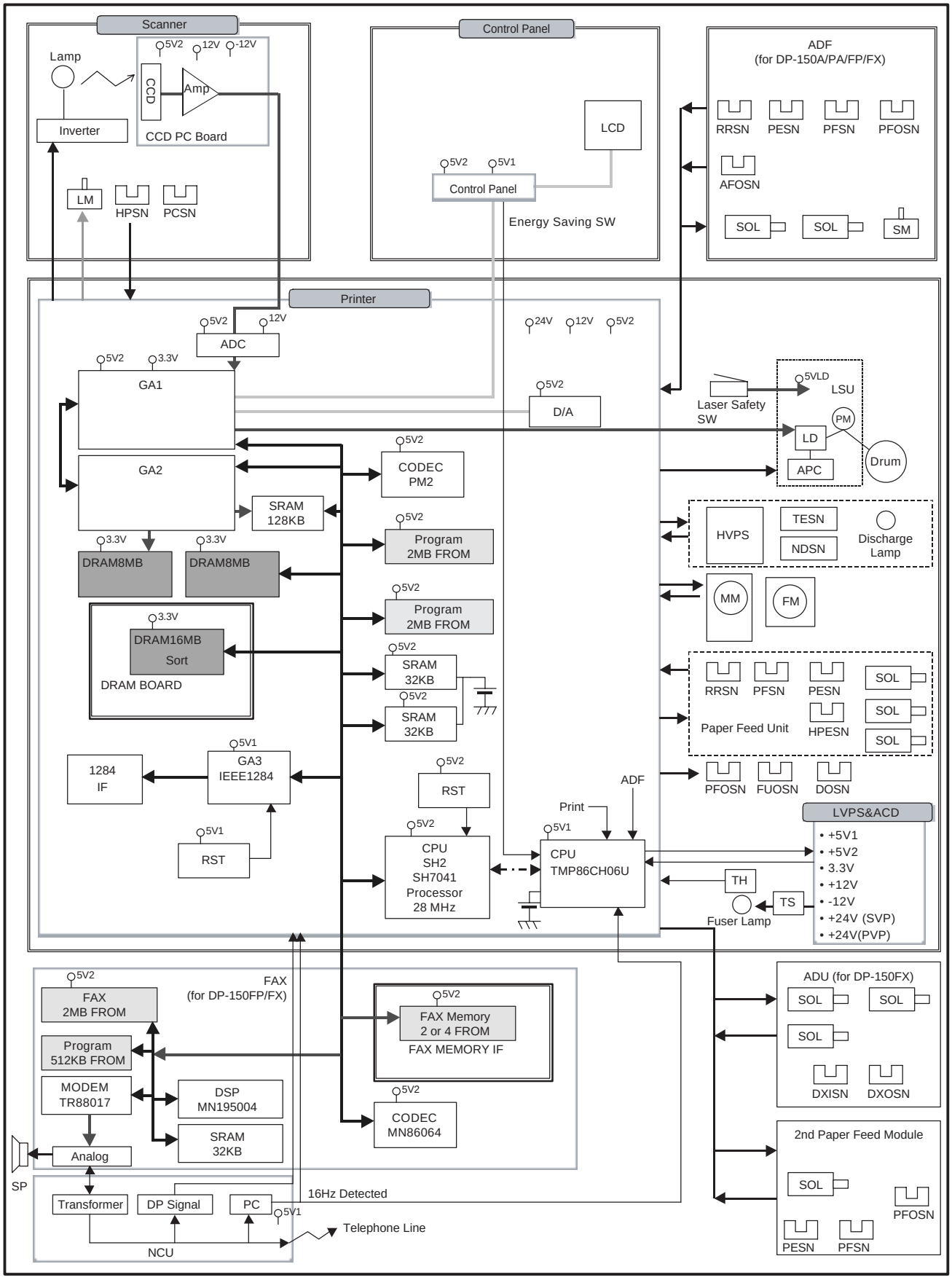
Note:

V model	: DP-130/150	P model	: DP-130P/150P	A model	: DP-150A
PA model	: DP-150PA	FP model	: DP-150FP	FX model	: DP-150FX

1 System Description

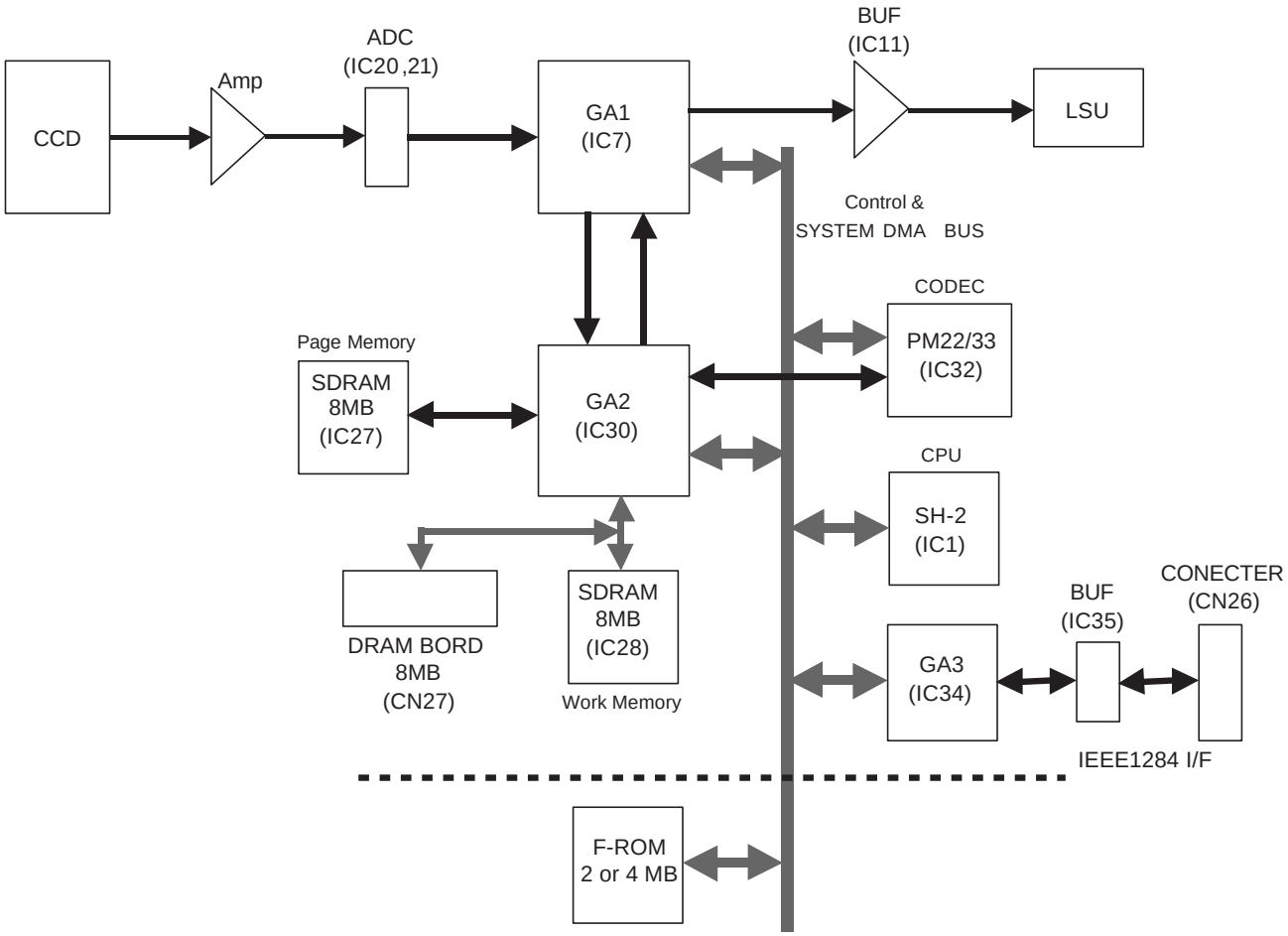
1.1. Electrical Circuit Explanation

1.1.1. Block Diagram



1.1.2. Image Data Circuit

The Image Data Circuit is independent of System circuit from Page Memory / Sort Memory circuit due to high speed scanning and printing. As a result of this, all image data is managed by the Image Data circuit and only coded data is transferred to the System Data BUS.



1. Memory Control Gate Array

GA2 (IC30) is a Memory Controlling Gate Array.

- DMA Control

It is used to transfer data between the following devices.

Scanning Control LSI (GA1)	→	Page Memory (S-DRAM)	:	Scanning Route
Page Memory (S-DRAM)	→	CODEC (PM22)	:	Coding Route
CODEC (PM22)	→	Page Memory (S-DRAM)	:	Decoding Route
Page Memory (S-DRAM)	→	LSU Unit	:	Recording Route
System Memory (S-DRAM)	→	Page Memory (S-DRAM)	:	Report Route

- Rotation Management

The rotation is carried out by the hardware when transferring the route.

- S-DRAM Control

It generates S-DRAM Control Signal for Page memory and Refresh Control when the power is ON. It does not backup the Page Memory.

- Picture Quality Correction Circuit (Smoothing)

When the receiving data (8 dot/mm x 3.85, 7.7, 15.4 line/mm) is converted to 600 dpi x 600 dpi resolution, the current printed data and 15 surrounding printed data are sent to the Smoothing ROM through 16 bit line and the ROM sends smoothed dot data. As a result of this operation, the distorted curved lines are smoothed.

- Gray-Level Enhancement

This control function allows expressing higher-level scales than using a recorded signal, by reducing line density into 1/2 or 1/3 on the original after binary-to-multiple value conversion. This capability increases reproduction of grayscale images such as photographs.

- Reduction / Enlargement Control Circuit

This circuit is used to process the received data so that it fits on the recording paper, according to the Fax Parameter Settings.

- Synchronization Control Circuit

This circuit is used to synchronize the output of the recorded data with the horizontal synchronizing output signal from the printer for each line. It controls the resolution of the printer as follows.

16 dot/mm x 15.4 line/mm	:	Report data
600 dpi x 600 dpi	:	Copy & Printer Interface

- FIFO/S-RAM Control
  Picture Edit Coding Gate Array uses FIFO for Smoothing & Laser pulse width control, and S-RAM for Smoothing Data and interface controls.

- S-DRAM Control
  It generates S-DRAM Control Signal for SORT Memory and Refresh Control when the power is ON. It does not backup the Page Memory.

2. Optional Memory for Image Side
   The Optional Memories are:
- Memory PC Board (SODIMM) → DRAM Card (16 MB) for Sort memory
  Install the DRAM Card for Sort memory to CN11 (FX/FP Model)/CN27 (A/PA Model) on the SORT PCB.

1.1.3. Fax System Control Circuit

The System Control Block consists of the following IC that control the general Fax functions.

1. System CPU

   The System CPU (SH7041) is a 32-bit RISC (Reduced Instruction Set Computer) type of CPU and DMA Control, Serial Communication Port, Timer Control, Interrupt Control, DRAM Control, and I/O Port are integrated into 1 chip. Mask ROM (64k byte) is already installed and it controls the Monitor, High Speed managing Task and Boot Programming.

   - DMA Control

     It has a 4ch DMA Control and is used to transfer data between the following devices.

     Communication CODEC (PM22) ←→ Image Data Memory (DRAM)
   - Serial Communication Port

     It has a 2ch Serial Communication Port and is used to interface the following devices.

     CPU ←→ Sub-CPU (Energy Saving Microprocessor)
   - Timer Control

     It is used to program the standard timer.
   - Interrupt Control

     It controls receipt & transfer to CPU the interrupt from Modem, LSI, Option, etc.
   - DRAM Control

     It generates DRAM Control Signal and Refresh Control when the power is ON.
   - I/O Port

     It is used to control lines and reset control around LSI.

2. System Memory

   This system consists of the following memory.

   - F-ROM (IC) → F-ROM (2MB) for programming
   - F-ROM (IC) → F-ROM (2MB) for programming

     The program is booted from F-ROM Card.
   - F-ROM (IC) → Image Data Memory (2MB)

     During a blackout, the image data is backed up.
   - DRAM (IC) → Work RAM, buffer (8MB) for transfer and reception

3. Optional Memory for System Side

   The Option Memories are:

   - F-ROM Card (2/4MB) → Image Data Memory for expansion

     During a blackout, the image data is backed up.

     It is possible to rewrite the program by rebooting the main program from this card.

1.1.4. Scanning Circuit

1. Scanning LSI

   GA1 (IC7) is a Scanning LSI and generates Shading Correction, MTF Correction, Reduction/ Enlargement, and Gray Scale Error Diffusion. The Image Signal is converted to binary signal and transported.

2. TX Motor Drive Circuit

   TX Motor Drive Circuit is controlled by SLA7032M and SCN PCB IC19, ADF PCB IC15.

1.1.5. Coding

Coding and decoding (MH/MR/MMR/JBIG conversion) is carried out by the hardware codec device. There are 2 codecs, Image Codec and Communication Codec.

- PM-22 (IC32) : for Image Codec

  It codes or decodes the data transferred from Sort memory. When copying, this codec codes from the Image data to JBIG data. When communicating, this codec codes from Image data to MMR data.

1.1.6. Sleep Mode

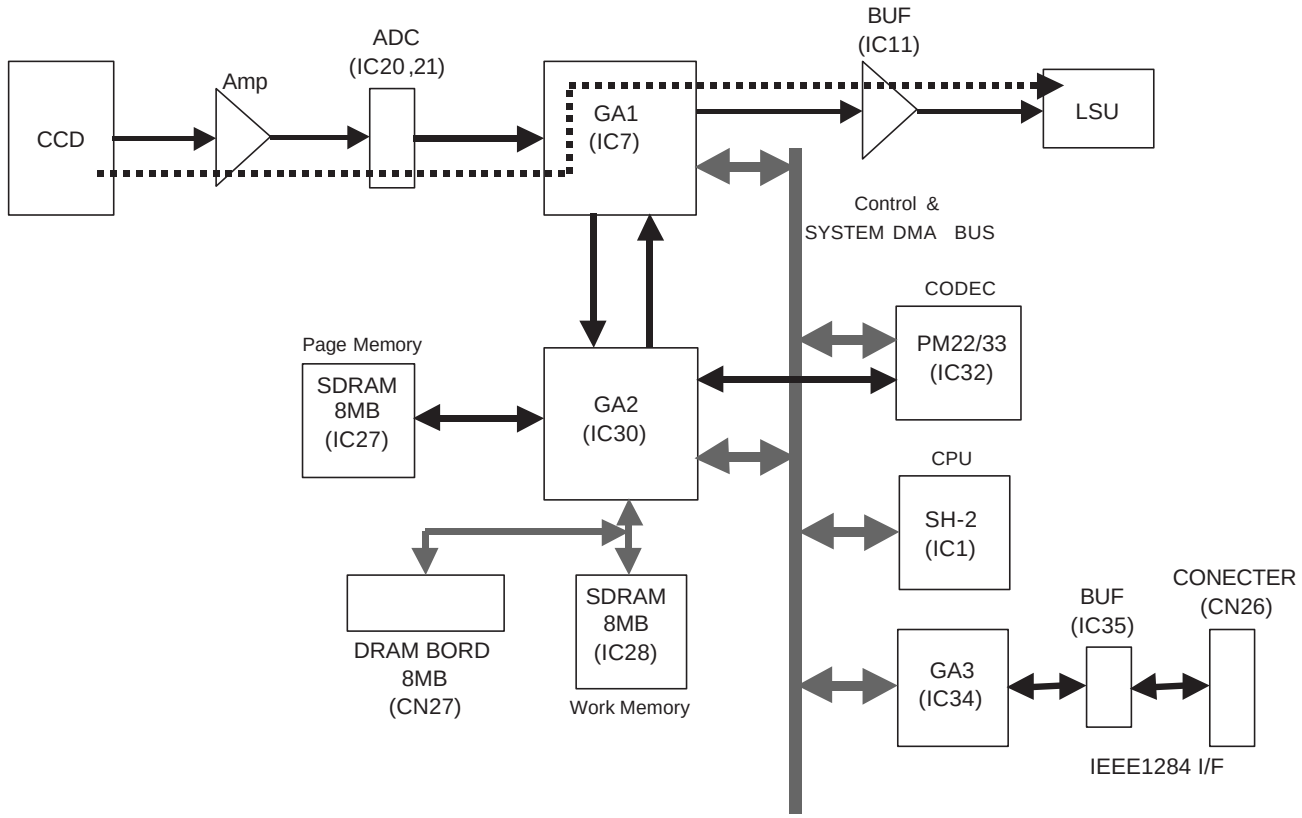
This function reduces the power consumption in standby mode. During Sleep Mode, power is supplied only to the Energy Saver Lamp to keep it at a steady ON condition, to the circuit that monitors incoming Ringing signals and to circuits that maintain Deferred communications. The power is recovered only when an incoming Ringing signal is detected, the time to perform a Deferred communication has lapsed or the Energy Saver key is pressed.

Recovers from Sleep Mode

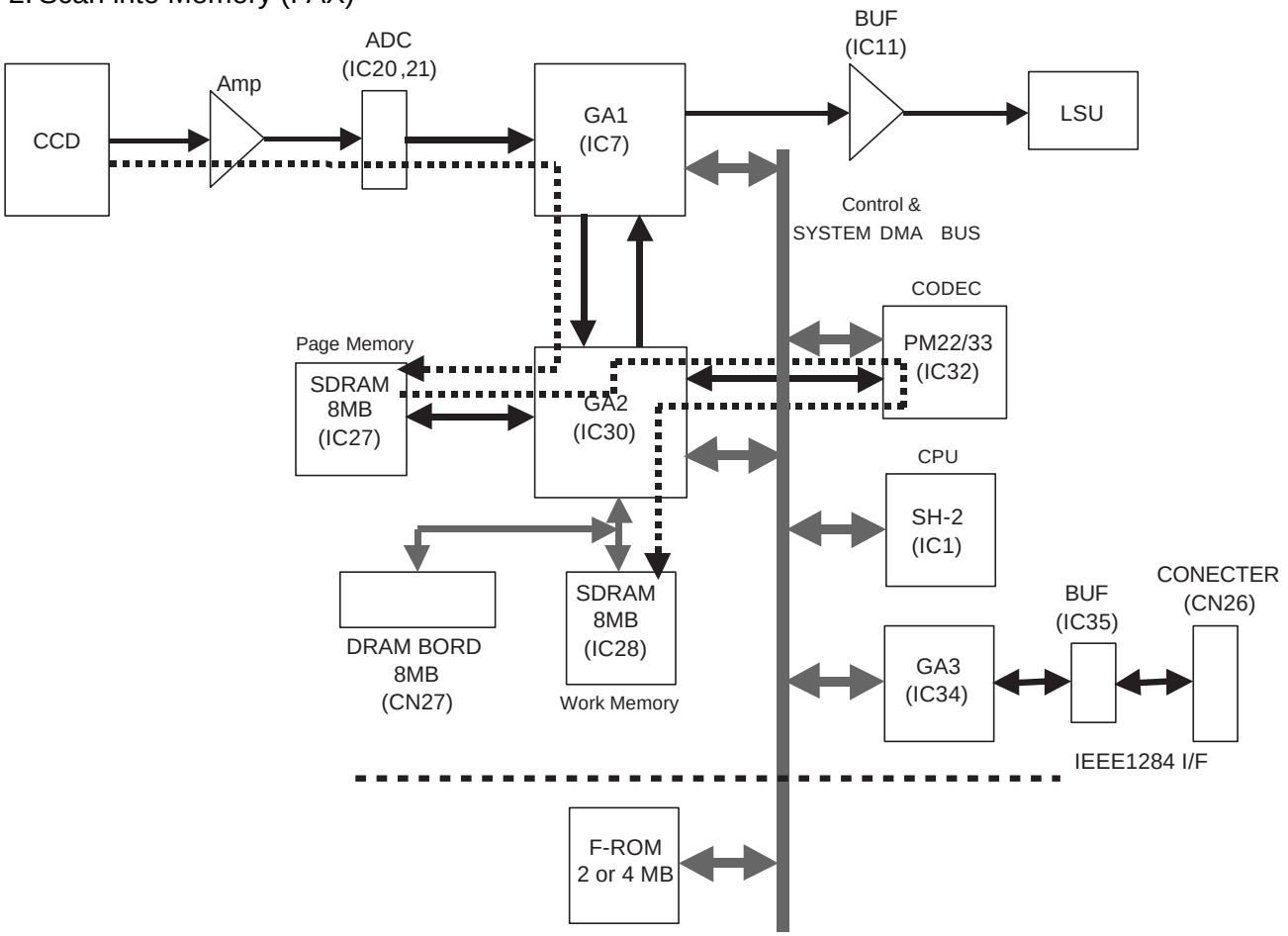
No.	Item	Recovers from Sleep Mode	Remark
1	When Energy Saver key is pressed	Yes	
2	Deferred Communication time is lapsed	Yes	
3	Time for Deferred Communication	Yes	
4	Original Sensor is actuated	Yes	Not Document Sensor with Flatbed
5	Ringing signal detected	Yes	Not 1300Hz detection
6	Off-Hook (External telephone or Handset)	Yes	
7	When printing from a PC	Yes	

1.1.7. Signal Routing

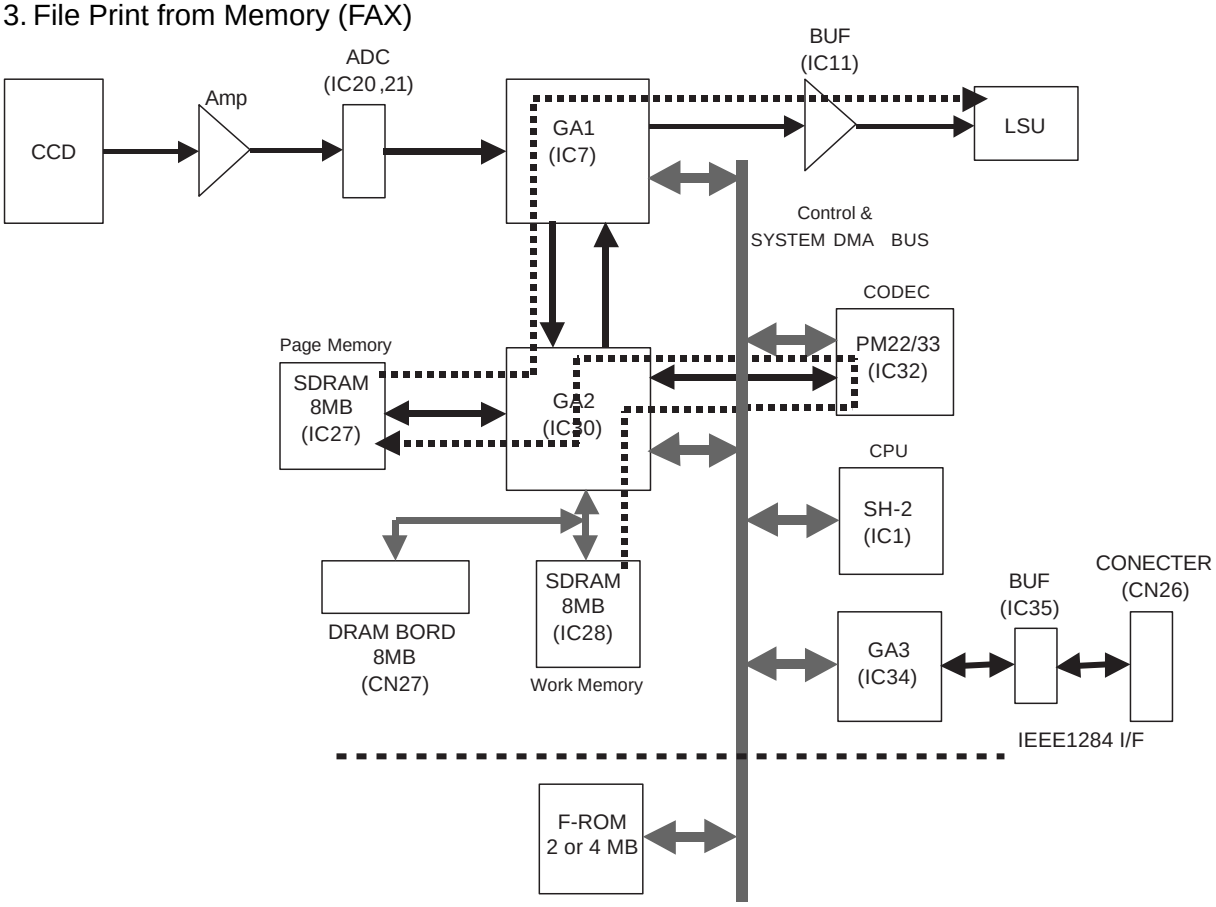
1. Copy



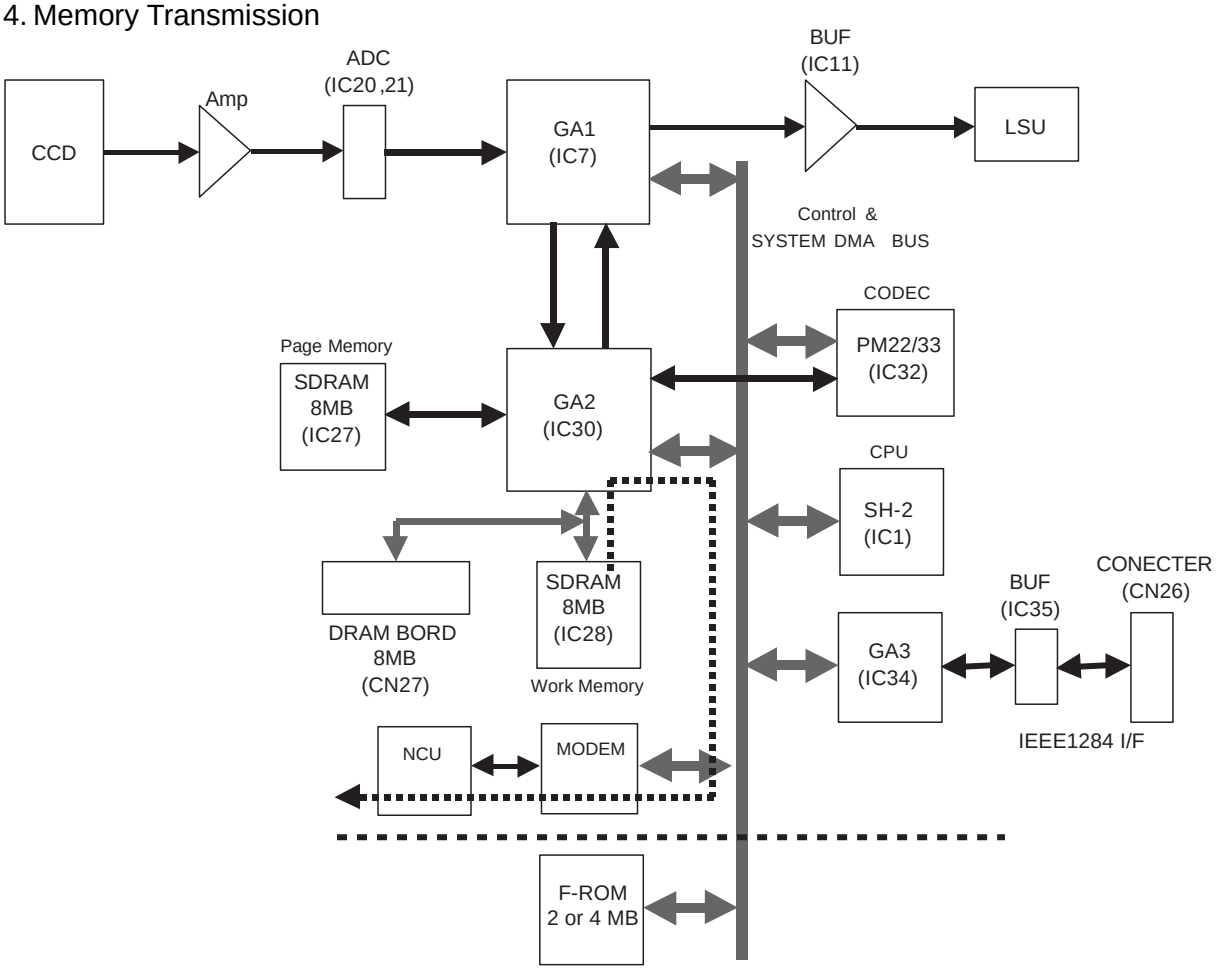
2. Scan into Memory (FAX)



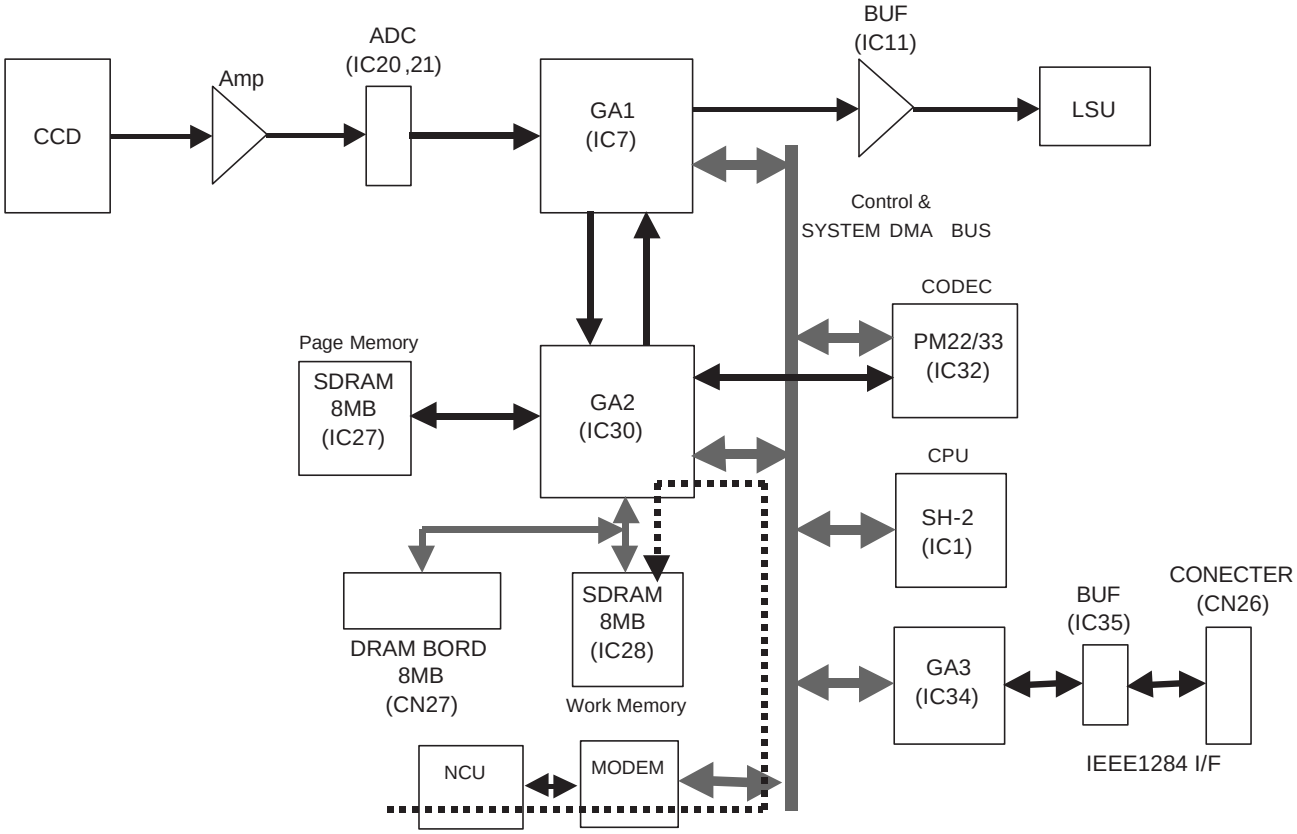
3. File Print from Memory (FAX)



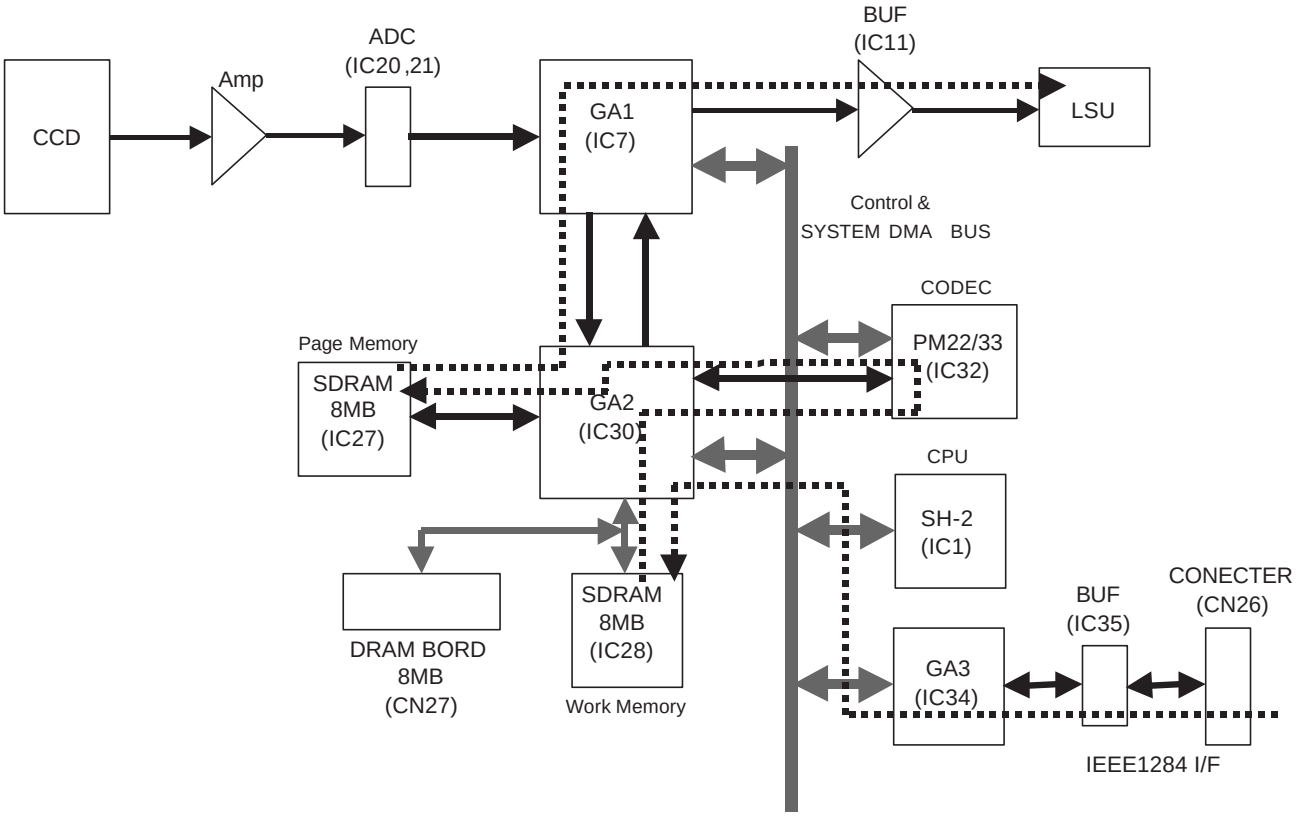
4. Memory Transmission



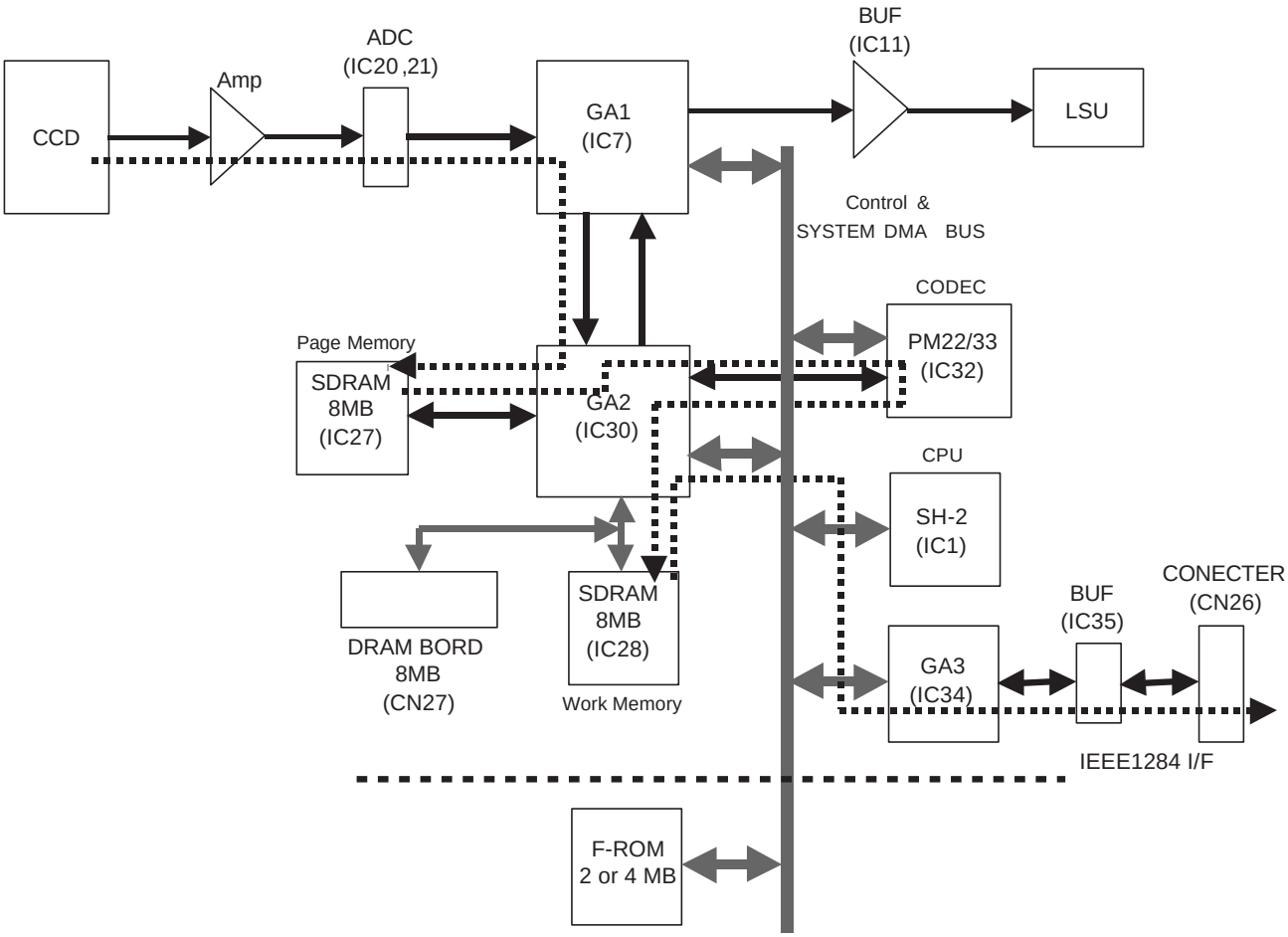
5. Memory Preception



6. Printing out

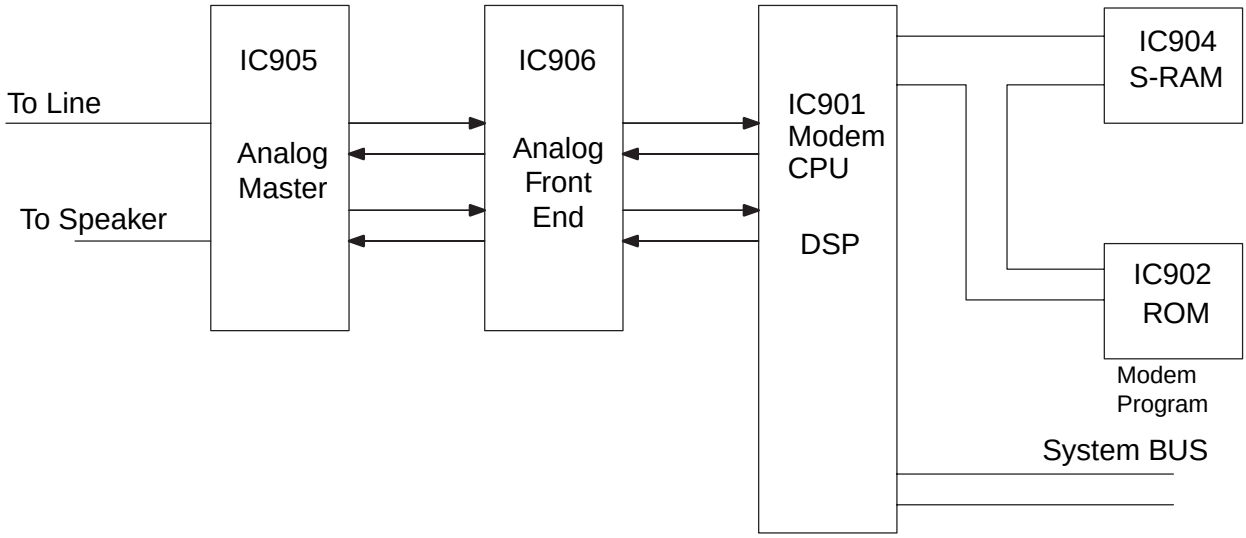


7. Scaner Input



1.1.8. Modem and Peripheral Circuit (Optional FXB PCB)

This circuit consists of DSP, ROM, S-RAM, Analog Front End, Analog Master and peripheral circuitry. This modem conforms to ITU-T, V.34, V.33, V.17, V.29, V.27ter, V.21 channel 2 (FSK), T.4, and T.30. Macro order of DSP is sent from ROM to S-RAM and is outputted. DSP transfers/receives data from Analog Front End and serial communication. Analog Front End communicates with the line through Analog Master.



Modem Circuit Block Diagram

1. Receive Signal Control Circuit

   This circuit consists of Operational Amplifier, Analog Master, and its peripheral circuit. On the received signal from a line transformer (HYBSR), diffraction of signal transmission is attenuated using the hybrid circuit, and the frequency of signal is limited to a certain band using a second LPF.

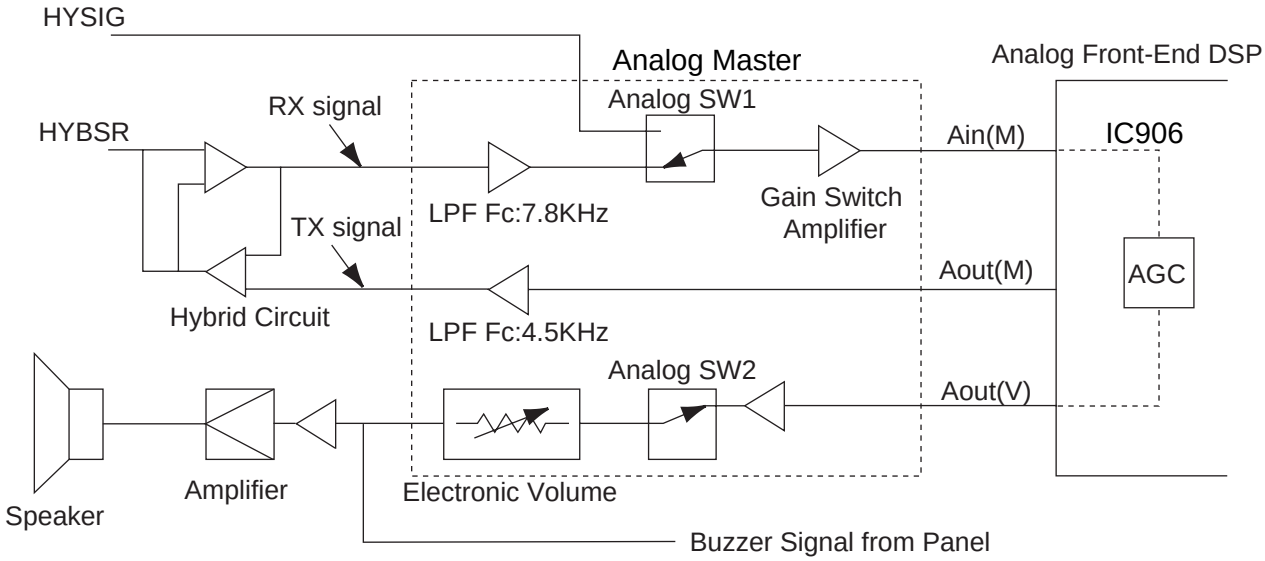
   The signal is input to the analog front end via the analog SW for switching over between HYSIG and the gain switching amplifier. 1300-Hz signal and remote signal are detected from HYSIG by switching SW1.

2. Transmission Signal Control Circuit

   This circuit consists of Operational Amplifier, Analog Master, and its peripheral circuit. On the signal transmission from the analog front end, frequency of the signal is limited to a certain band using a second LPF, and diffraction of the signal to a reception circuit is attenuated using the hybrid circuit. The signal is sent out from the line transformer.

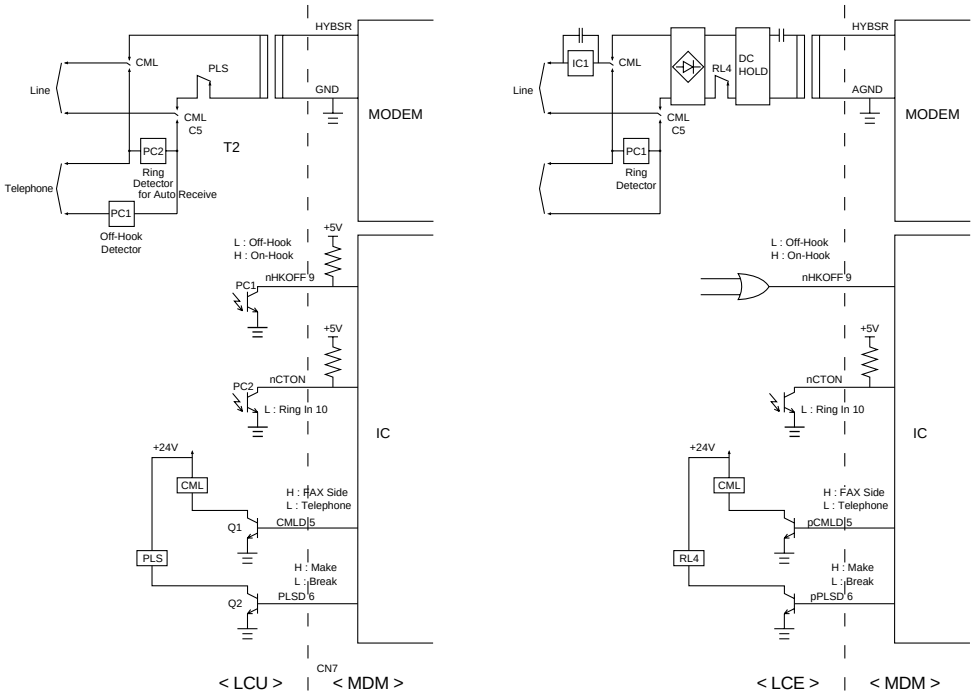
3.Line Monitor Circuit

The Line Monitor Circuit consists of an operational amplifier, analog master and its peripheral circuits. Its function is to monitor the dial tone, DTMF tone, response signals, etc. over the speaker. It also sounds the output of the key touch tones, alarm tones, etc. from the panel CPU over the speaker. The received signal from the Ain (M) passes through an AGC circuit and is conditioned by the Analog Front-End DSP and is then input to the Analog SW2 for volume control. The signal is then input to the Speaker Amplifier, where it is amplified to a level sufficient to drive the speaker. The key touch tones and Buzzer Signals from the panel are input to the Analog SW2 for volume control and then input to the Speaker Amplifier. The monitor tone from the phone line and the buzzer tone from the panel can be adjusted from the Control Panel.



1.1.9. Line Control Board

The following shows a block diagram of the Line Control Board.

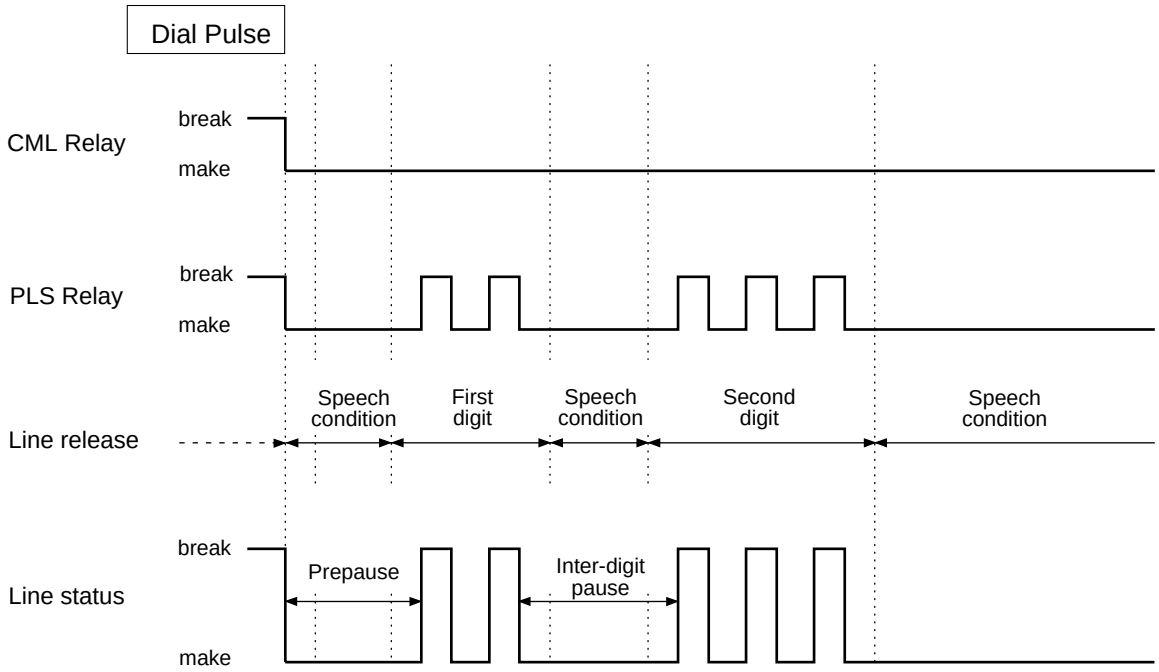


The **Ring Detector** consists of a photocoupler, PC2 (PC1 for LCE), and its peripheral circuits. The ringing signal is a half-wave rectifier in the Ring Detector, and transferred through the nCTON signal line to the IC on the SC PC Board. The IC observes the signal to distinguish from signals caused by chattering.

The **Off-Hook Detector (External Telephone)** circuit consists of the photocoupler, PC1 (IC1 for LCE), and its peripheral circuits. When PC1 detects loop current flow, it emits a Low active output signal (nHKOF) to the IC which monitors it for a specified time. If the IC detects no change in the Low signal level, it determines that the External Telephone is Off-Hook.

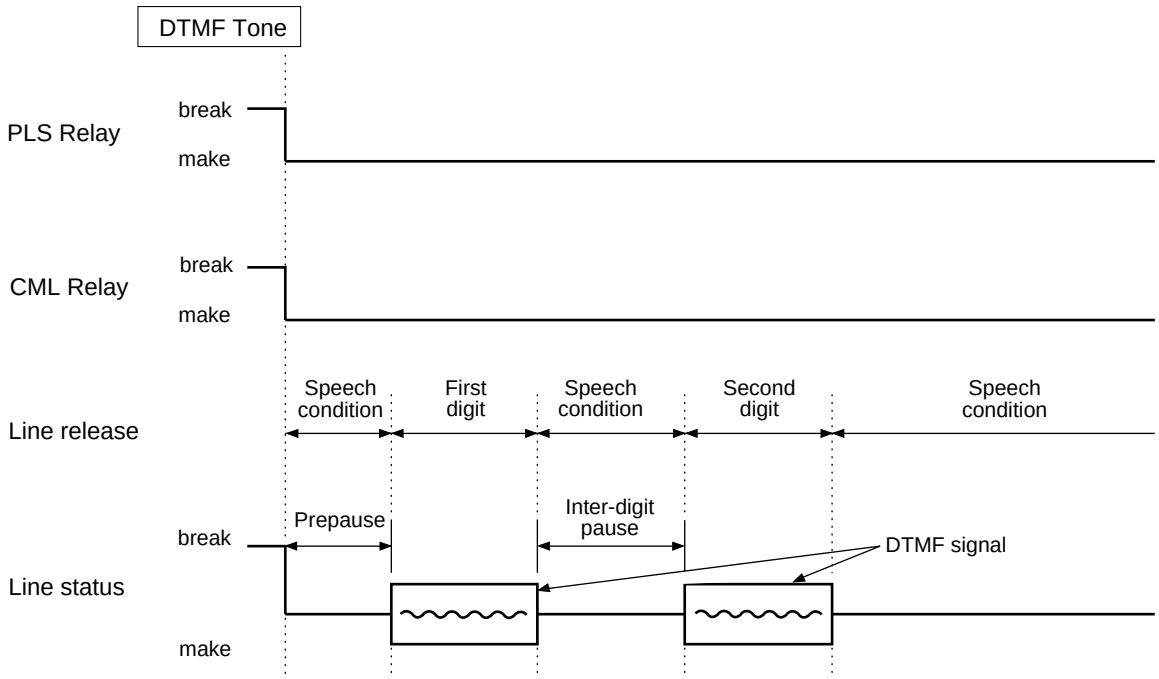
Dial Pulse Generator

The circuit consists of the CML relay, PLS relay and their peripheral circuits. This circuit generates dial pulses. The CPU PC Board controls all dial pulse generation sequences. It turns relay CML and PLS ON and OFF through the DZZSP58025. The status of the relays during dialing is shown below. When the absence of the terminating message is confirmed by the Off-Hook detector, the CPU turns CML relay ON to develop loop status (DC loop). After a few seconds, the CPU turns the PLS relay On and Off to generate dial pulses, making and breaking the loop.



DTMF Tone Generator

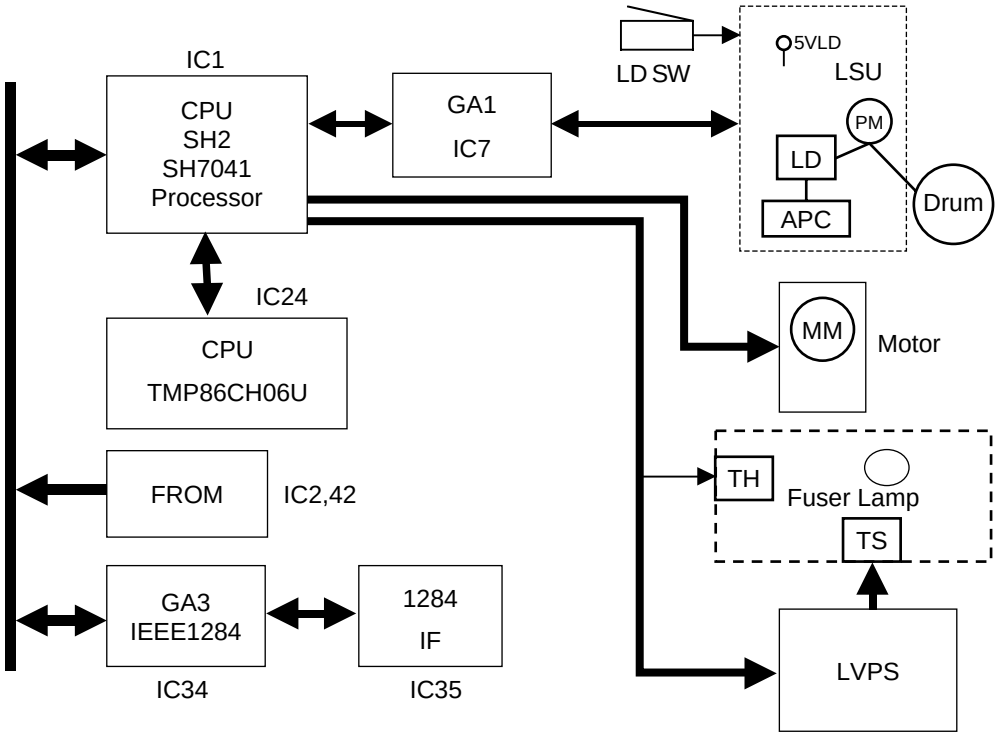
The circuit is incorporated in the MODEM PC Board. The DTMF tone is conveyed to the telephone line using the same route as the facsimile signal. The DTMF tone selection is controlled by the CPU. The relay status during dialing is shown below.



1.1.10. Laser Printer Motor Drive Circuit

1. System Description

It consists of 16 bit CPU TMP86CH06U, FROM for programming, peripheral I/O. The CPU controls mechanism of Laser Printer, Fuser Lamp temperature, and Laser Unit.



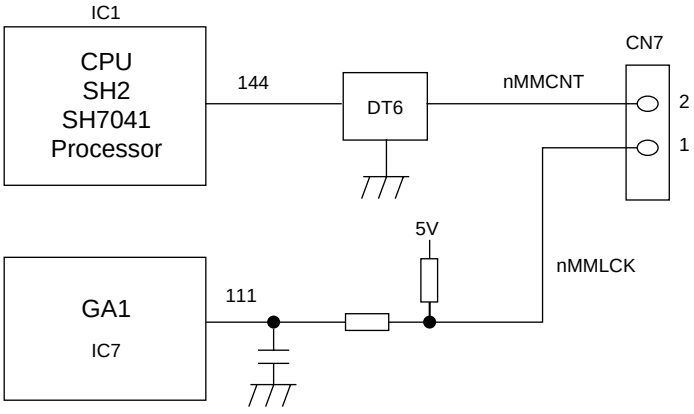
2. Printer Motor Drive Circuit

This Printer Motor is a Brushless DC Motor.

nMMCNT : When the signal level goes Low, the Printer Motor starts rotating.

nMMLCK : Rotation status signal for Printer Motor. When the Printer Motor reaches a constant speed, nMMRDY signal level goes Low.

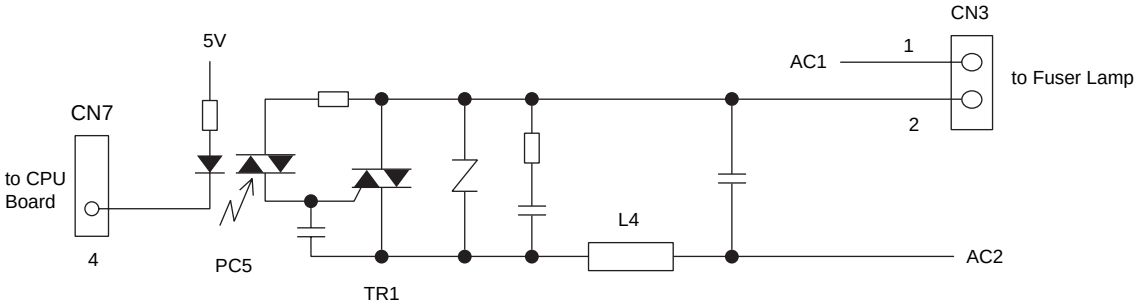
The Printer Motor is powered by +24 VDC supply. When the interlocks are open, the +24 VDC supply is cut off and the Printer Motor stops rotating.



3. Fuser Lamp Drive Circuit

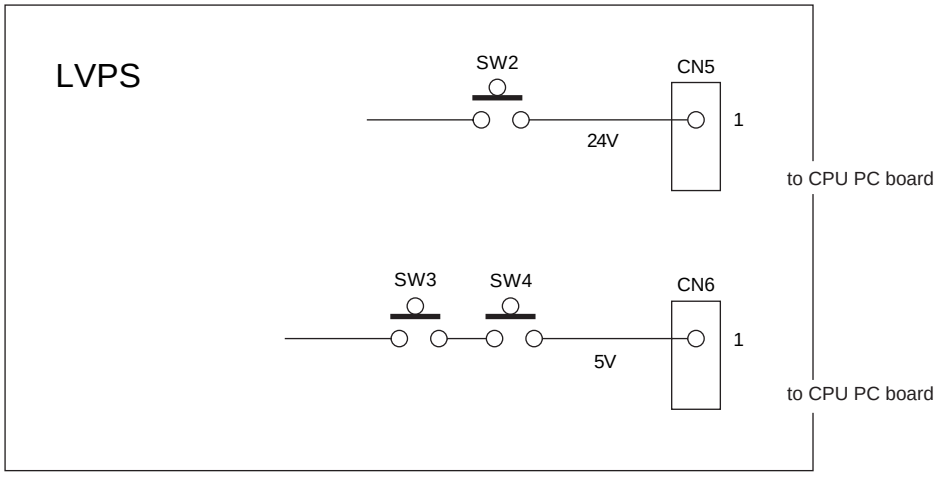
It consists of 1 Fuser Lamps and Fuser Lamp is controlled by two HTC PC Boards.

The Fuser Lamp is powered by 100 VAC. When the CN7, Pin 4 (HTCNT) on the LVPS PCB goes LOW, the Fuser Lamp turns ON. This lights up the PC5 LED and activates the TR1 photo-triac, and 100 VAC is sent to the Fuser Lamp.



4. Interlock Safety Circuit

This safety circuit turns OFF the +24 VDC and +5 VDC supply voltages when the Printer Cover is opened. When the Printer Cover is opened, the microswitch(es) on the LVPS Board are de-actuated, turning OFF +24 VDC to the Printer Motor Drive Circuit, the HVPS, the Paper Feed Solenoid Circuits, the Clutch Drive Circuit, and the Laser Driver Circuit on the Laser Unit.



5. LSU Control Circuit

The laser control signals are described below.

Actual data is sent from CPU PCB to LSU.

nVIDEO : Actual data is outputted by these 2 signals.

ADJUST : Laser Power Sample/Hold Timing Signal.

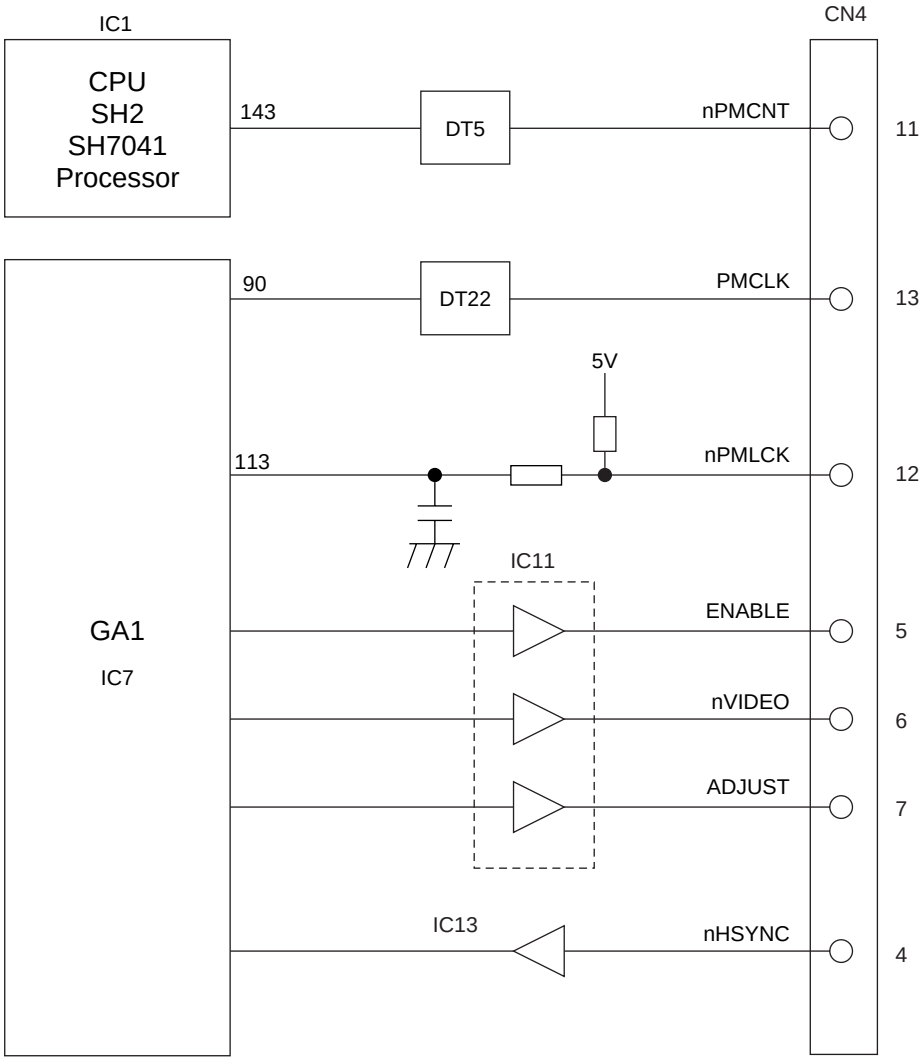
nHSYNC : This horizontal synchronization signal transmitted from the Beam Detection Sensor sets the horizontal position of the laser beam as it crosses the OPC Drum.

ENABLE : The LSU is activated when this output signal is LOW. If an error occurs, the nLDON output signal level goes High and the LSU is deactivated.

PMCLK : This is the Polygon Motor Drive Clock.

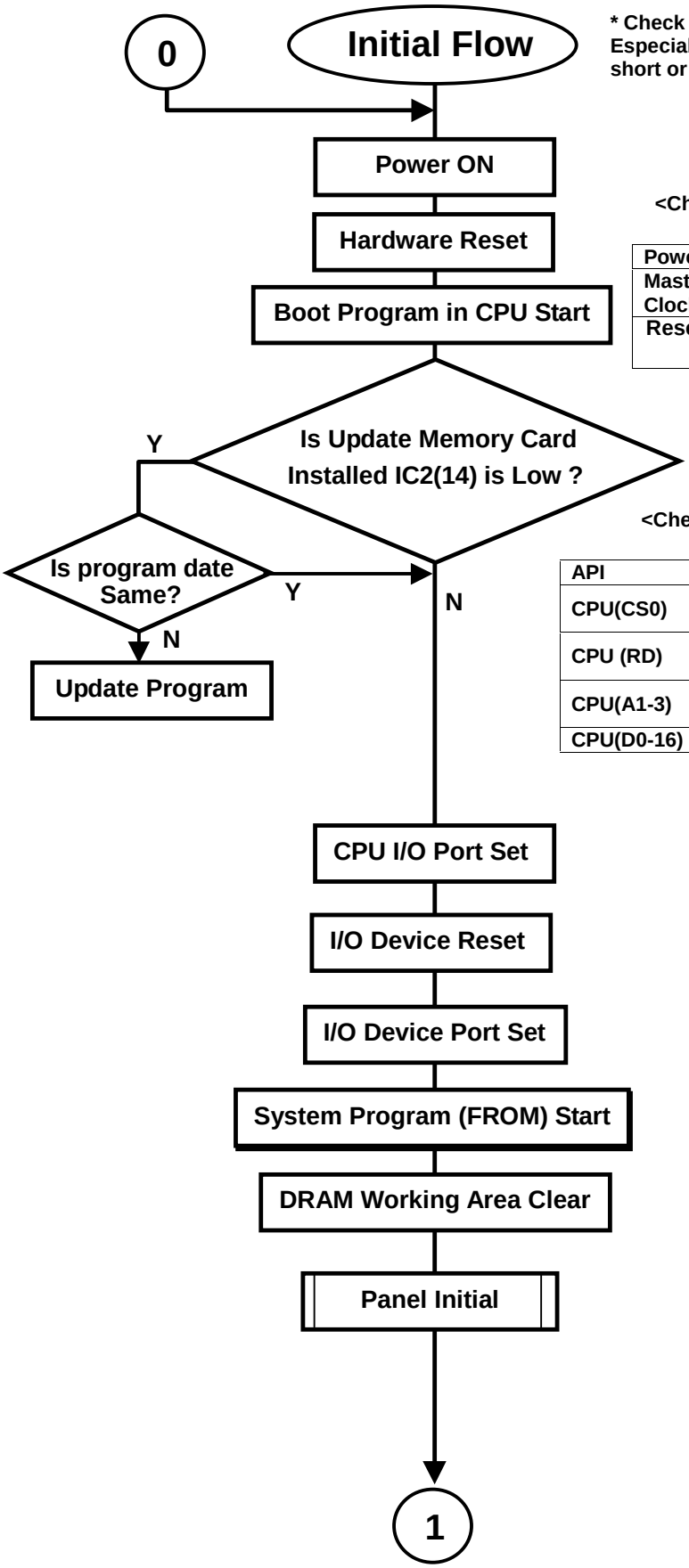
nPMLCK : When the Polygon Motor speed is constant, the nPMRDY is at a Low output signal level.

nPMCNT : This is the Polygon Motor Control Signal. The Polygon Motor rotates when the nPMON output signal level is LOW.



1.2. Power On Initial Flow Chart

1.2.1. Fax



*** Check outside view of SC PCB before checking signal. Especially check whether CN903 (FROM Card) pins short or not.**

XTAL

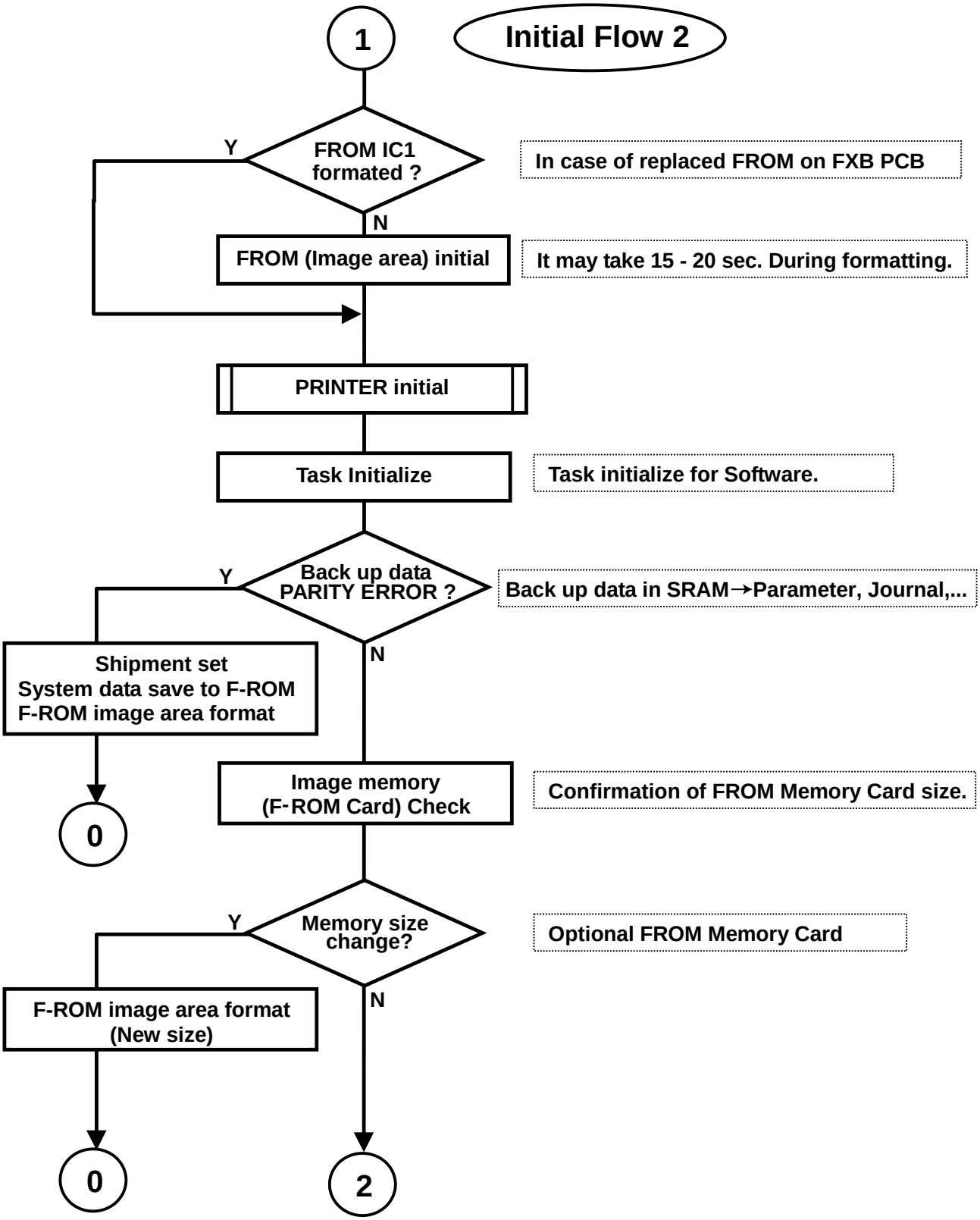
3.5V
0V

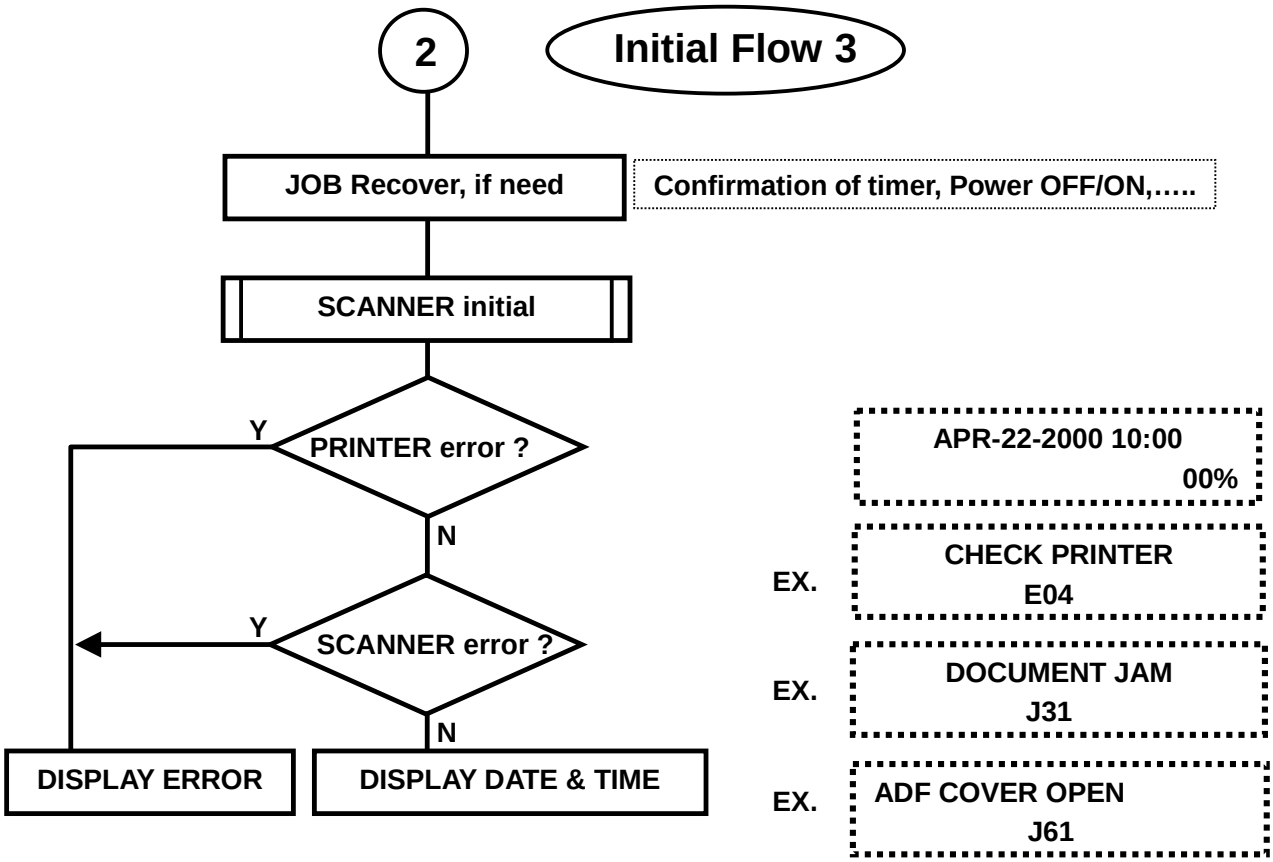
<Check Output : If Signal is not correct, each IC might be defective >

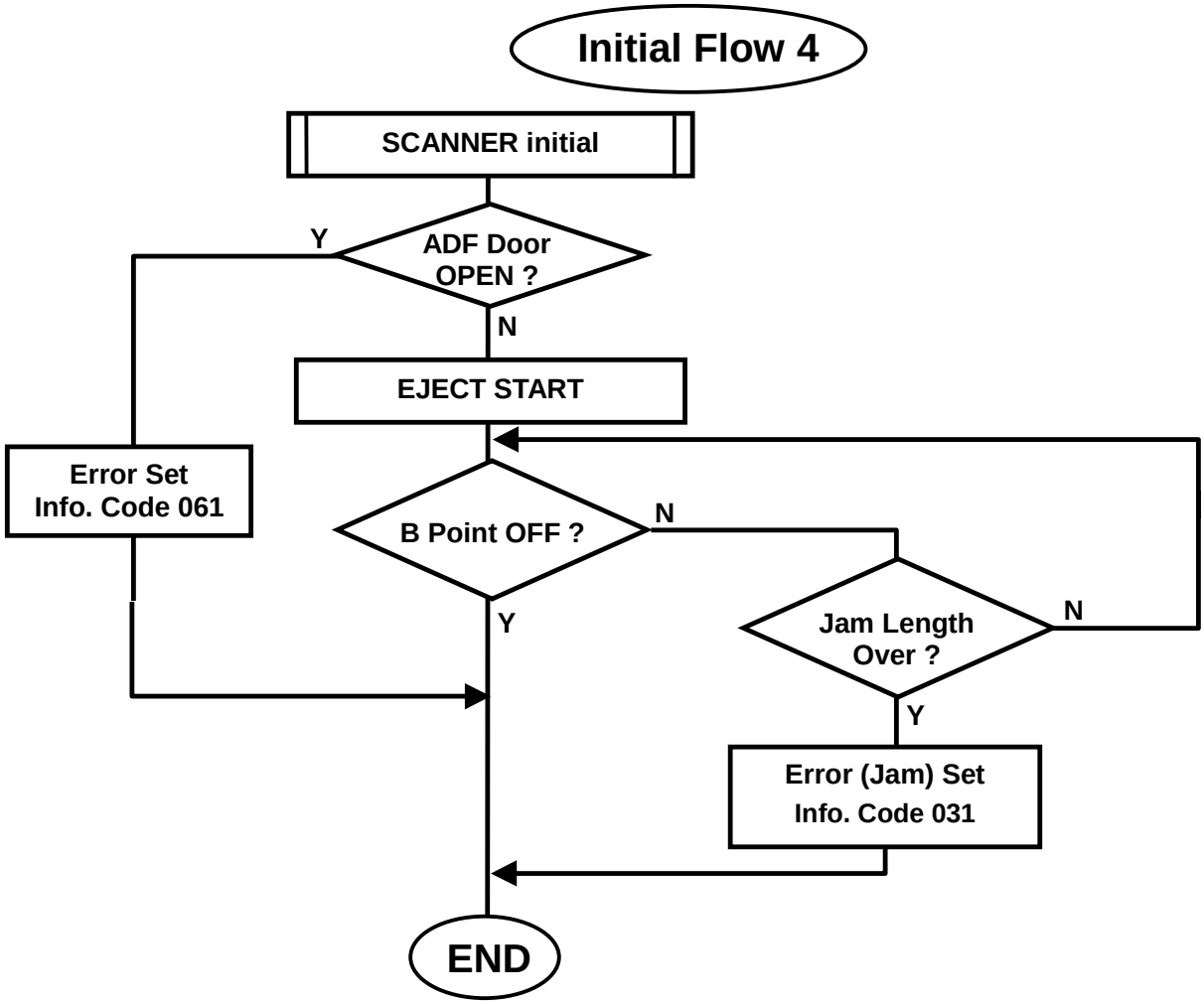
Power	CN13(12,13)5V -> CPU
Master Clock	7.16Hz -> (94)IC1CPU(107)28.3MHz -> BL108
Reset	ResetIC5(8) -> ⎍-> (173) -> ⎍ ->(108)IC1CPU

<Check Output : If Signal is not correct, each IC might be defective >

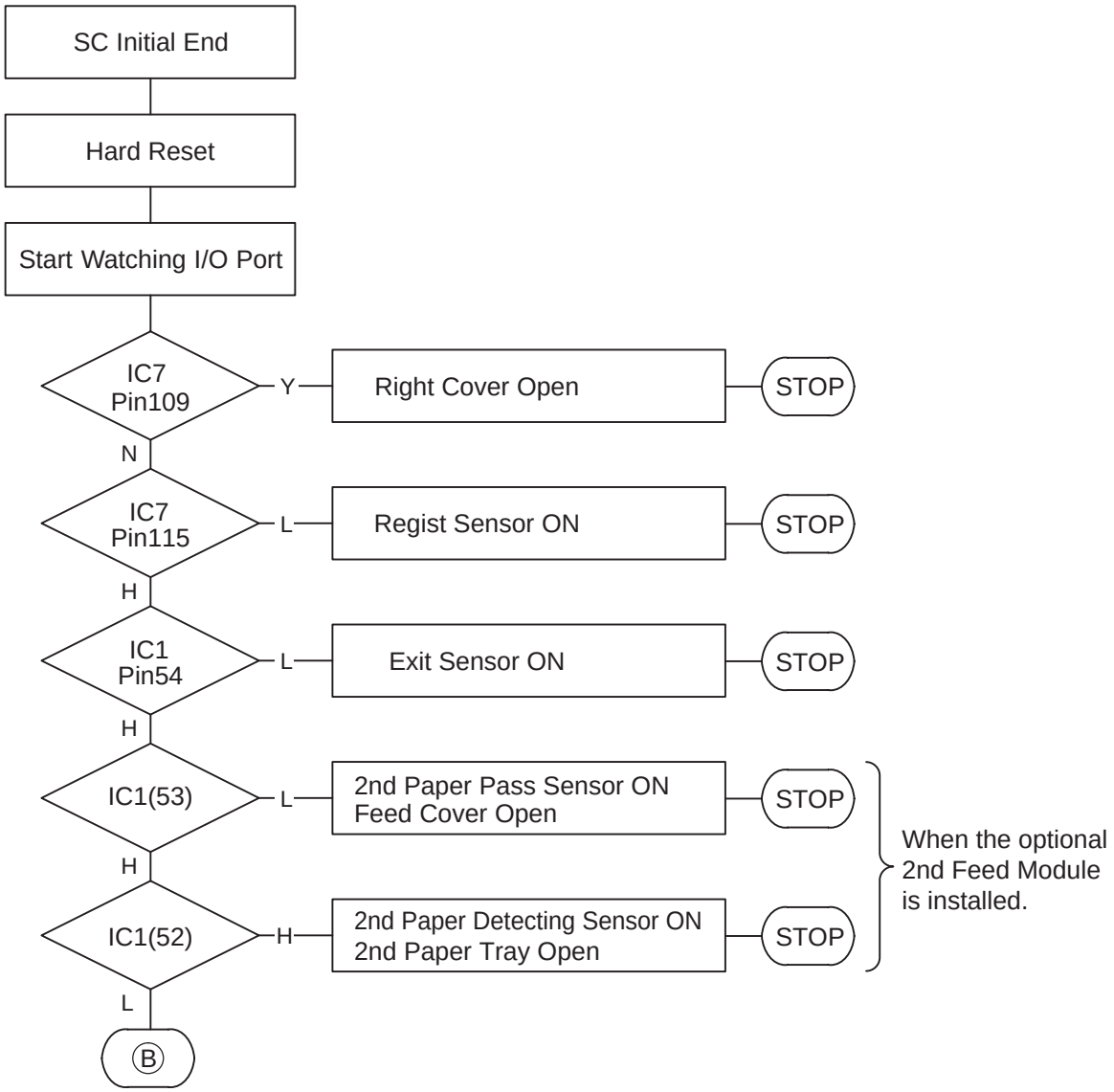
API	IC2(14) : Low / High
CPU(CS0)	IC1CPU(50) ⎍ -> IC7(150) ⎍ -> (2) IC2(14)
CPU (RD)	IC1CPU(43) ⎍-> IC5 ⎍ -> IC2(54)
CPU(A1-3)	(A0~20)IC7(7~39)⩘-> MSC(14, 16,17) -> IC2(4~32)
CPU(D0-16)	IC1CPU(D0-16) ⩘-> IC2(33,35,38-)

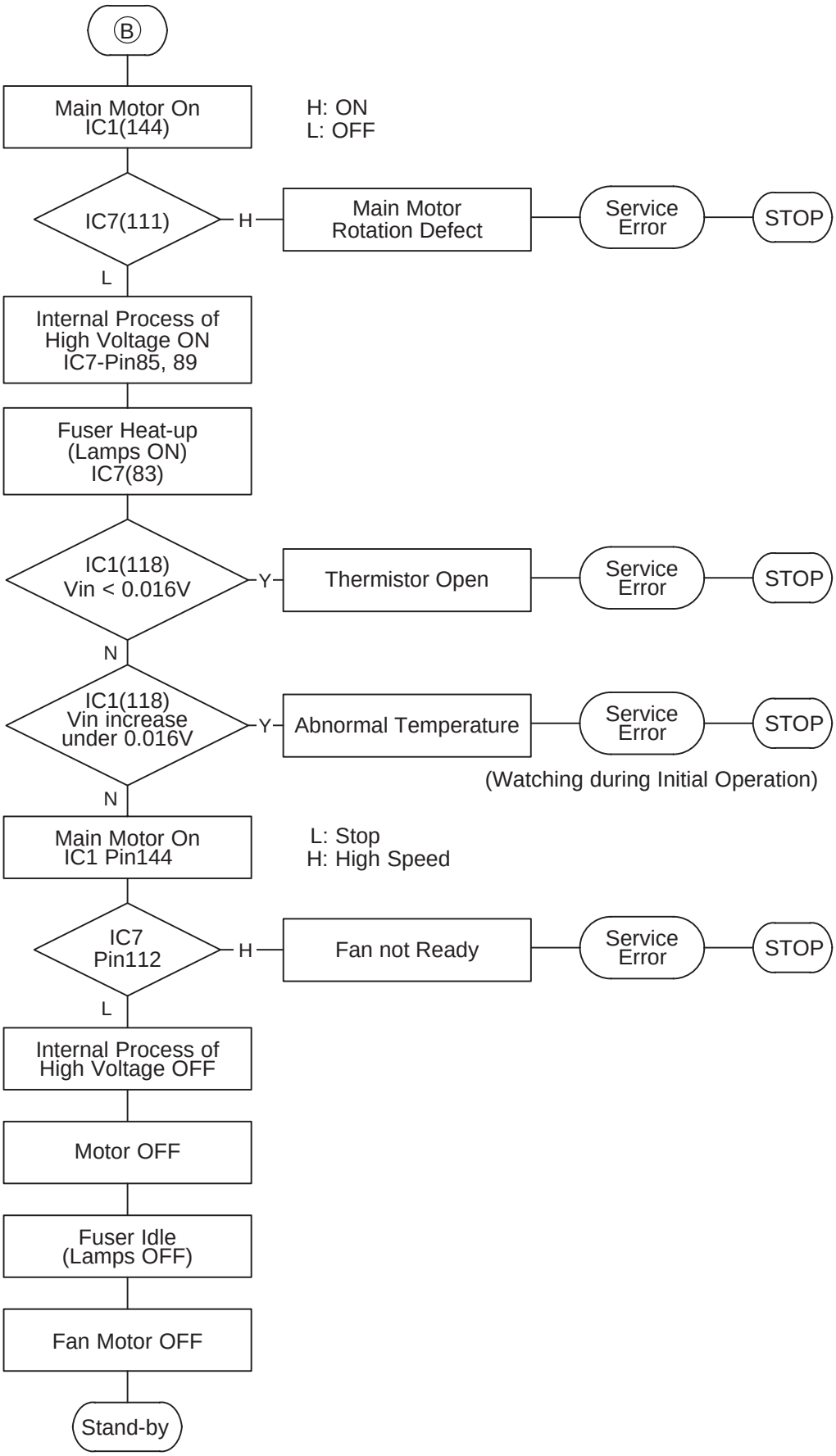

1
Initial Flow 2
FROM IC1 formated ?
Y
N
In case of replaced FROM on FXB PCB
FROM (Image area) initial
It may take 15 - 20 sec. During formatting.
PRINTER initial
Task Initialize
Task initialize for Software.
Back up data PARITY ERROR ?
Y
N
Back up data in SRAM→Parameter, Journal,...
Shipment set
System data save to F-ROM
F-ROM image area format
0
Image memory (F-ROM Card) Check
Confirmation of FROM Memory Card size.
Memory size change?
Y
N
Optional FROM Memory Card
F-ROM image area format (New size)
0
2


2
Initial Flow 3
JOB Recover, if need
Confirmation of timer, Power OFF/ON,.....
SCANNER initial
Y
PRINTER error ?
N
Y
SCANNER error ?
N
DISPLAY ERROR
DISPLAY DATE & TIME
APR-22-2000 10:00
00%
EX.
CHECK PRINTER
E04
EX.
DOCUMENT JAM
J31
EX.
ADF COVER OPEN
J61


Initial Flow 4
SCANNER initial
Y
ADF Door
OPEN ?
N
EJECT START
Error Set
Info. Code 061
B Point OFF ?
N
Y
Jam Length
Over ?
N
Y
Error (Jam) Set
Info. Code 031
END

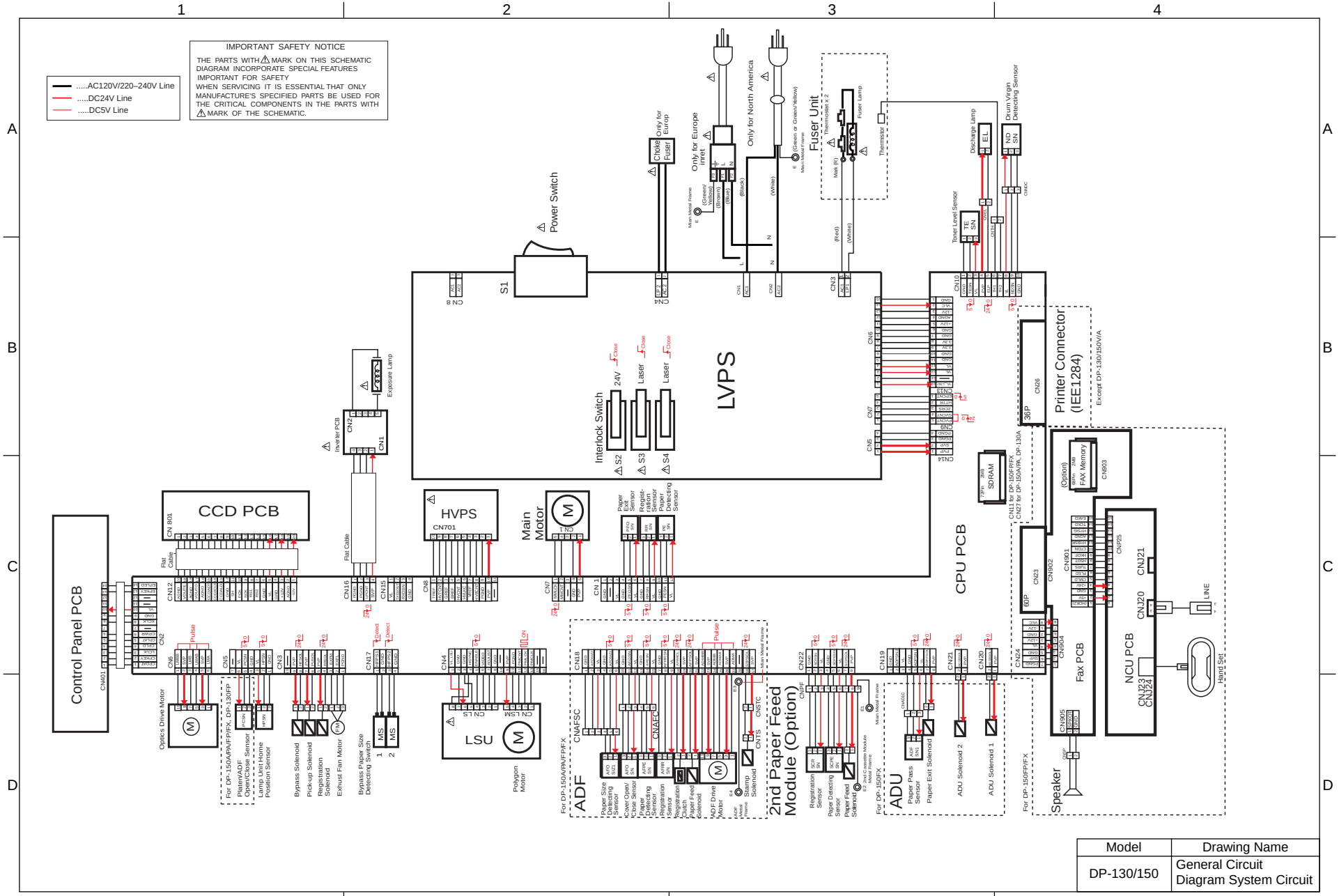
1.2.2. Printer Initial Flow Chart



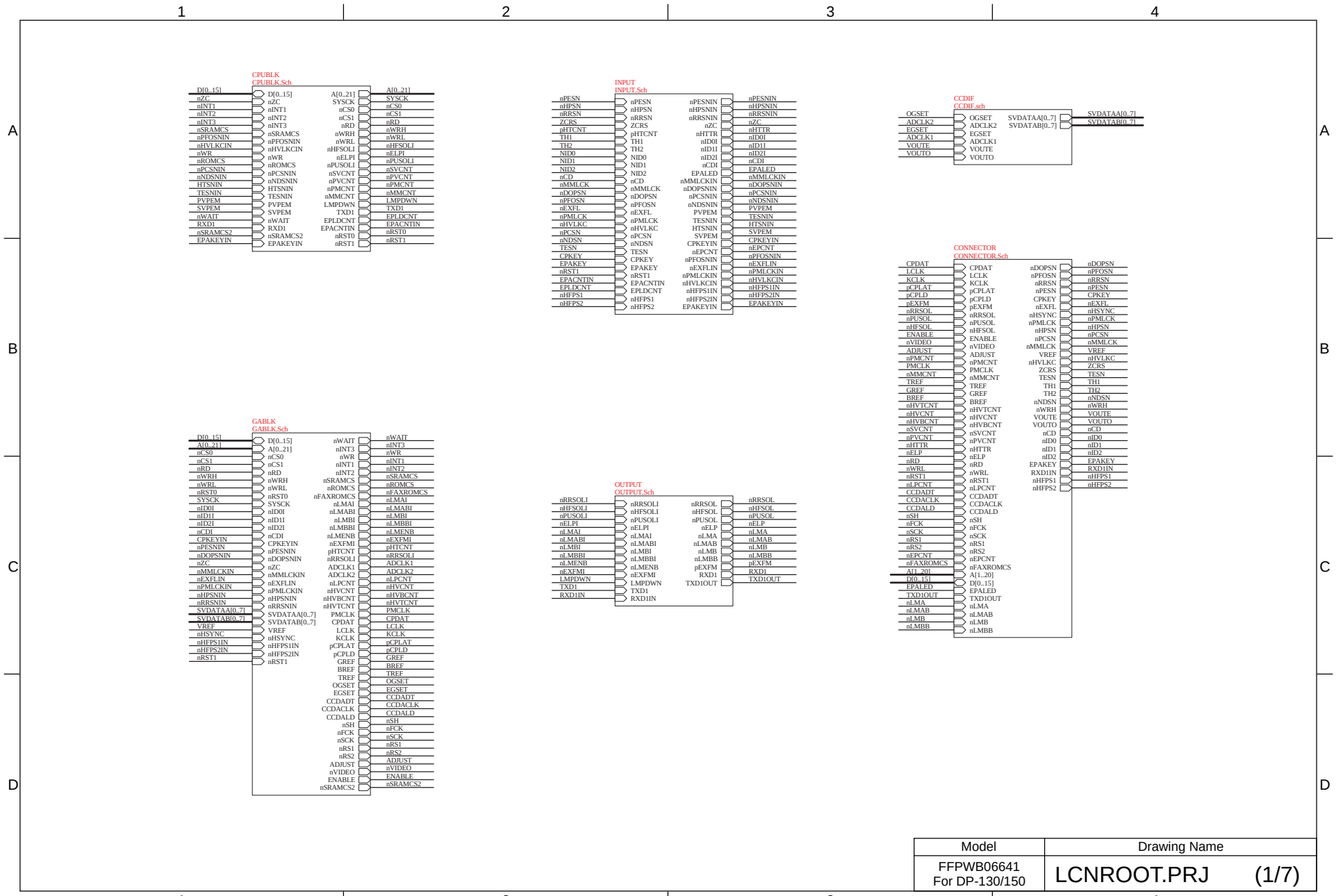

B
Main Motor On
IC1(144)
H: ON
L: OFF
IC7(111)
H
Main Motor
Rotation Defect
Service
Error
STOP
L
Internal Process of
High Voltage ON
IC7-Pin85, 89
Fuser Heat-up
(Lamps ON)
IC7(83)
IC1(118)
Vin < 0.016V
Y
Thermistor Open
Service
Error
STOP
N
IC1(118)
Vin increase
under 0.016V
Y
Abnormal Temperature
Service
Error
STOP
(Watching during Initial Operation)
N
Main Motor On
IC1 Pin144
L: Stop
H: High Speed
IC7
Pin112
H
Fan not Ready
Service
Error
STOP
L
Internal Process of
High Voltage OFF
Motor OFF
Fuser Idle
(Lamps OFF)
Fan Motor OFF
Stand-by

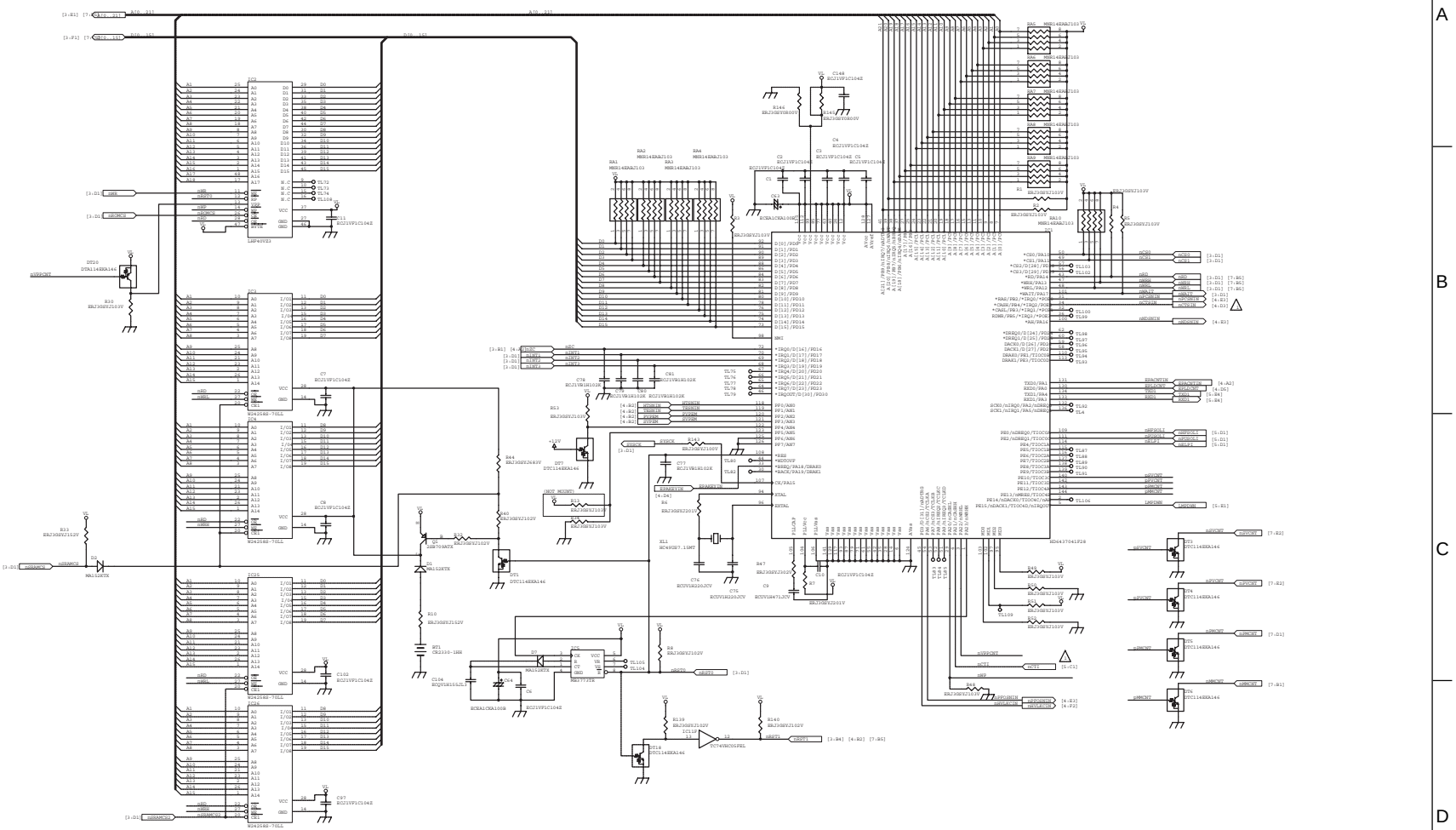
2 Schematic Diagram

2.1. General Circuit Diagram System Circuit

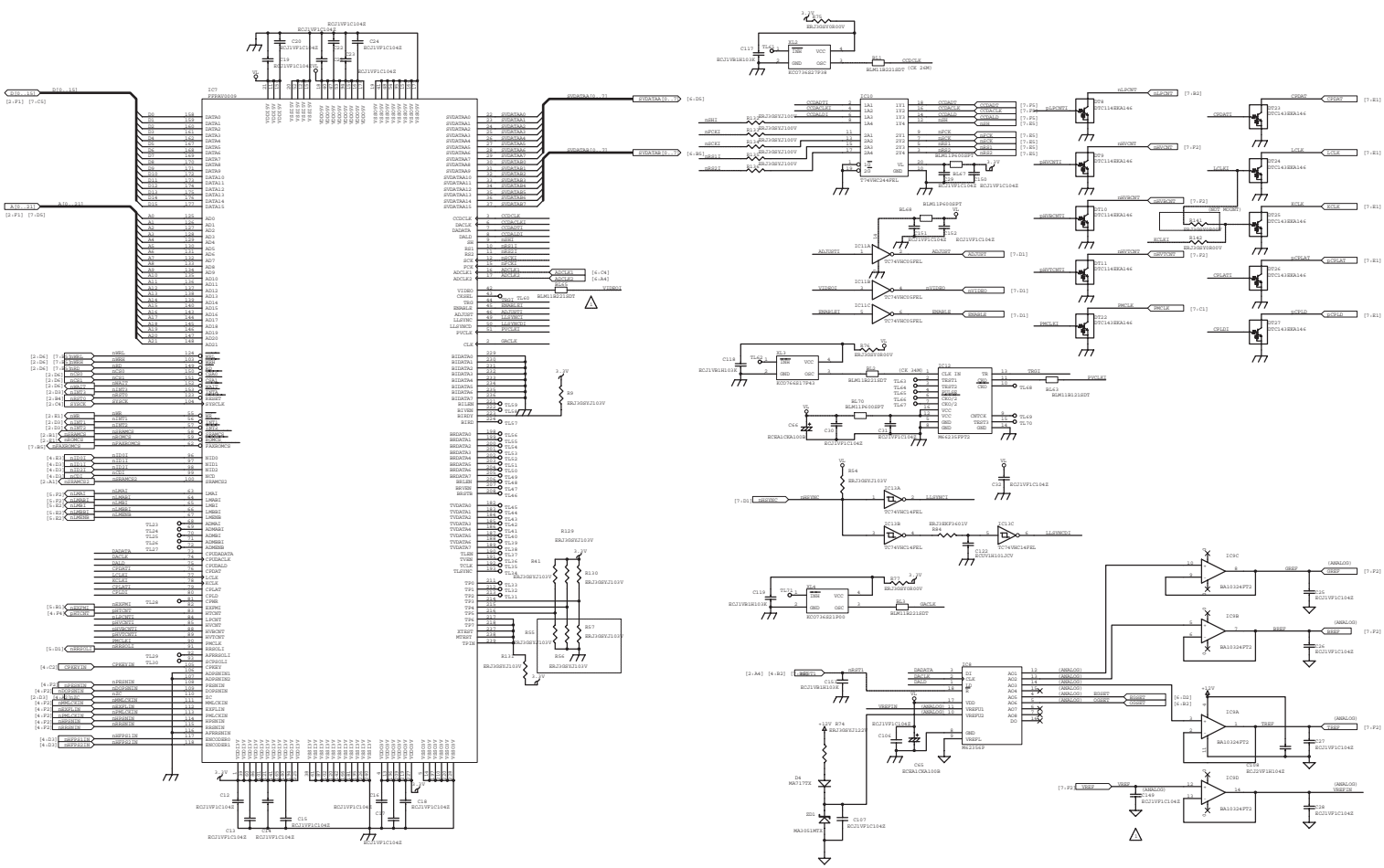


2.2. CPU PC Board (V Model)

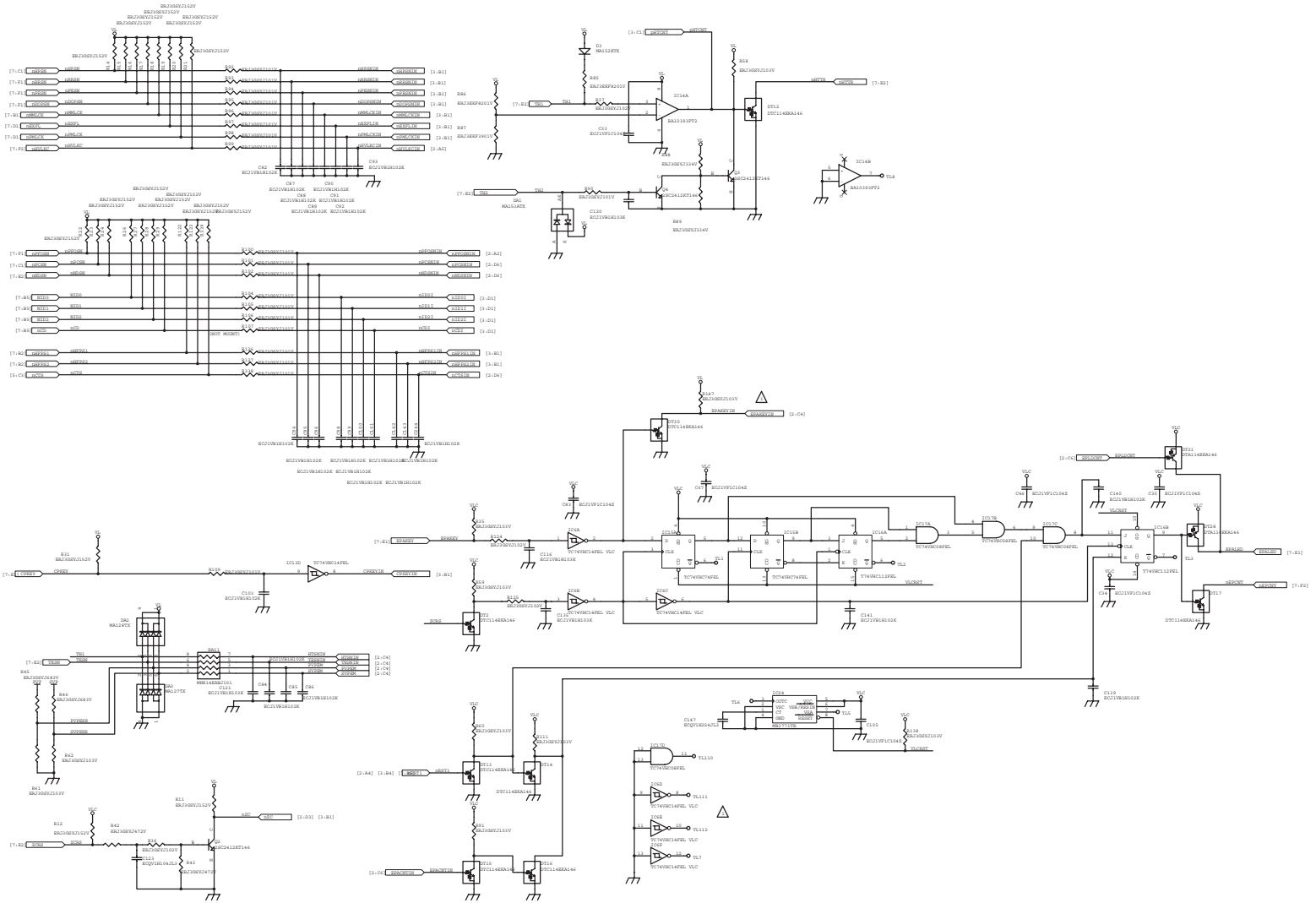




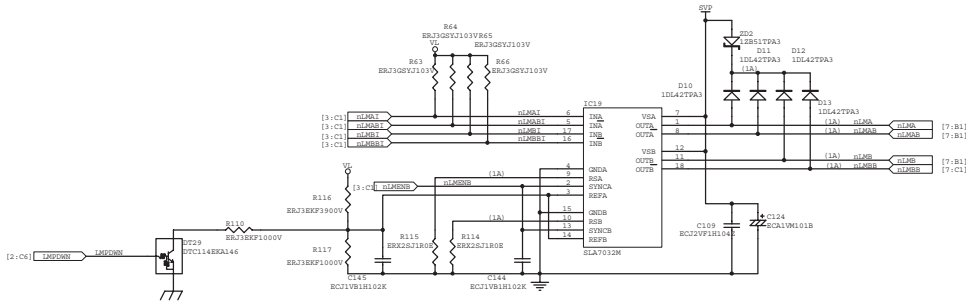
Model	Drawing Name
FFPWB06641 For DP-130/150	CPUBLK.SCH (2/7)

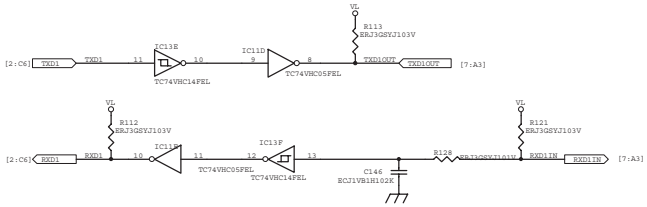


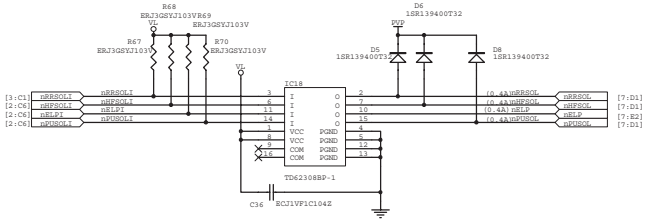
Model	Drawing Name
FFPWB06641 For DP-130/150	GABLK.SCH (3/7)

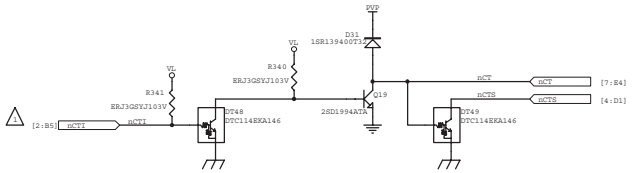


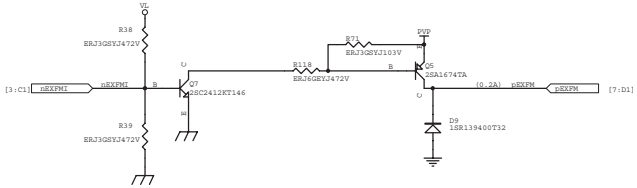
Model	Drawing Name
FFPWB06641 For DP-130/150	INPUT.SCH (4/7)



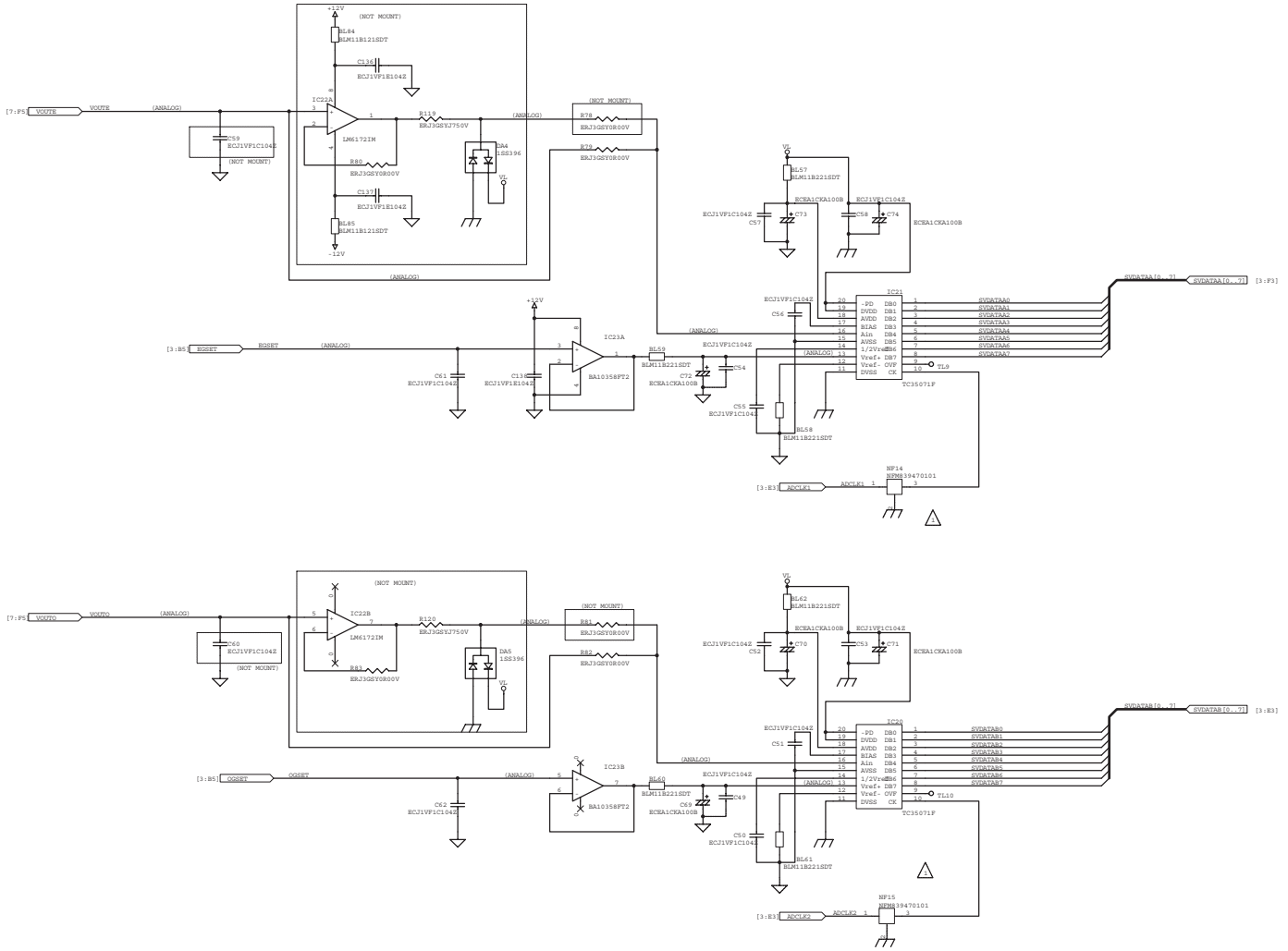


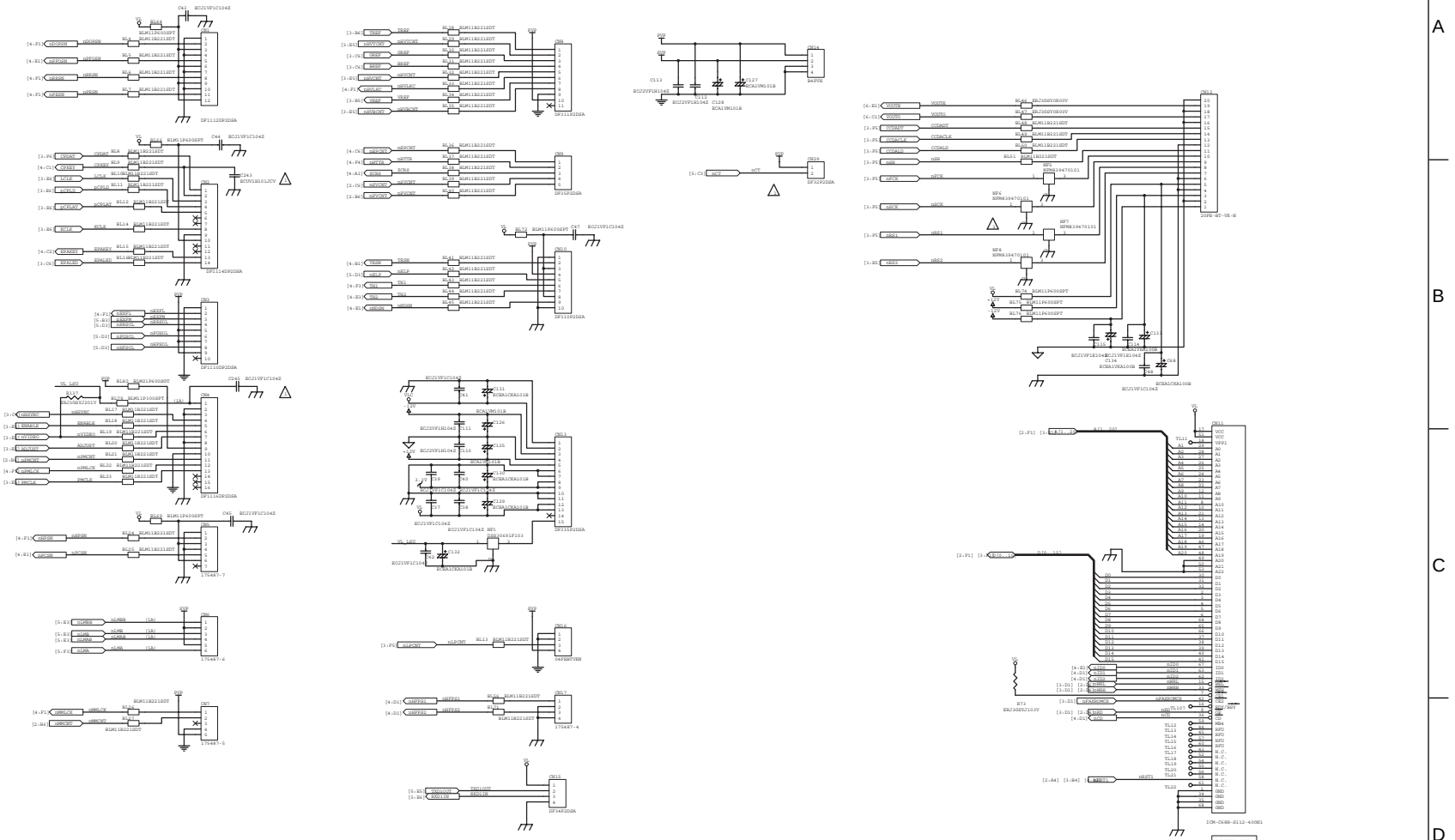






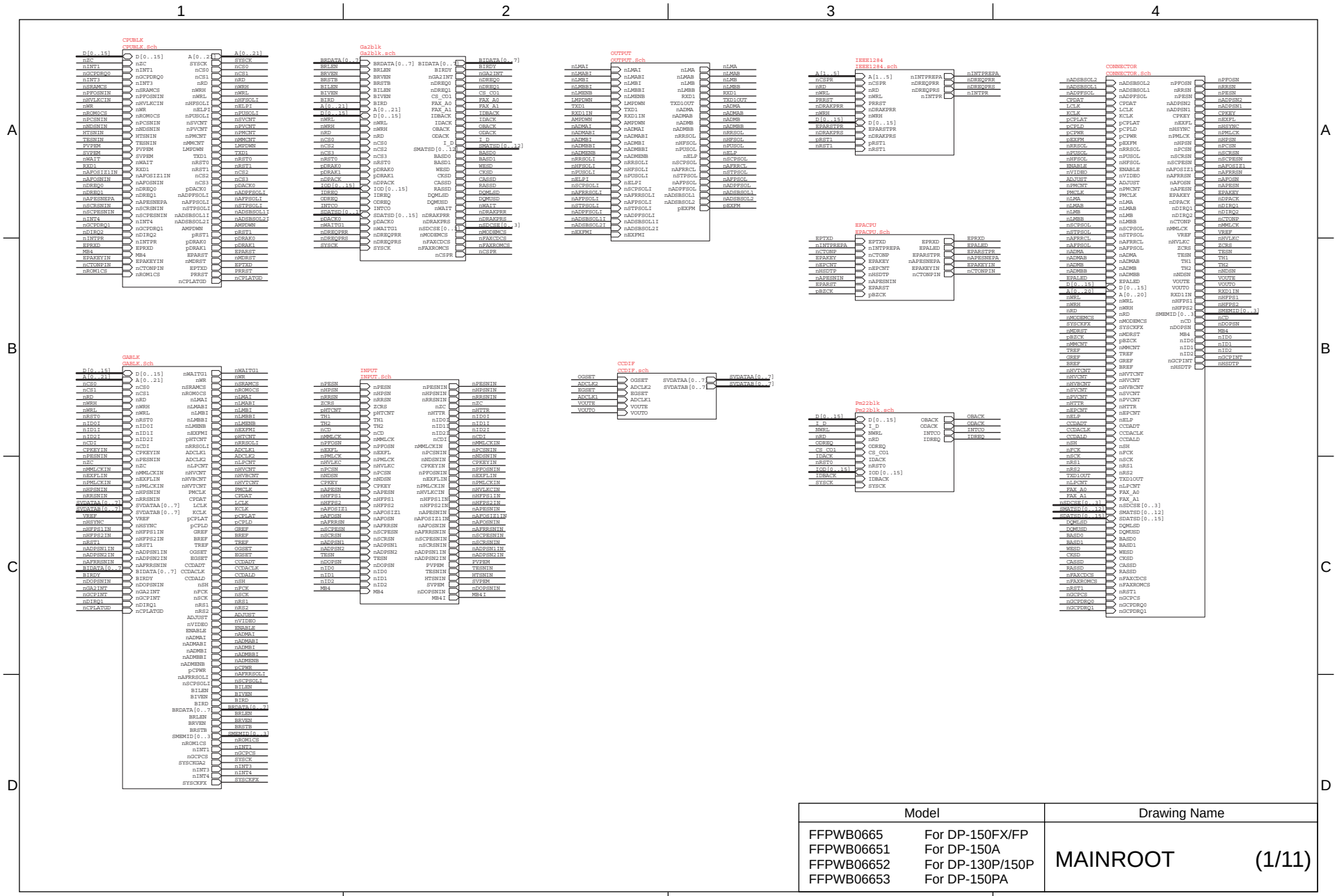
Model	Drawing Name
FFPWB06641 For DP-130/150	OUTPUT.SCH (5/7)


(NOT MOUNT)
BL84
BLM11B121SDT
C136
ECJ1VF1E104Z
IC22A
LM6172IM
R119
ERJ3GSYJ750V
R85
ERJ3GSY0R00V
DA4
1SS396
C137
ECJ1VF1E104Z
BL85
BLM11B121SDT
+12V
-12V
(ANALOG)
[7:F5]
VOUTE
C59
ECJ1VF1C104Z
R78
ERJ3GSY0R00V
R79
ERJ3GSY0R00V
VG
BL57
BLM11B221SDT
ECEA1CKA100B
ECJ1VB1C104Z
C73
C57
C68
C74
IC21
TC35071F
SVDATAA0
SVDATAA1
SVDATAA2
SVDATAA3
SVDATAA4
SVDATAA5
SVDATAA6
SVDATAA7
SVDATAA[0..7]
[3:F3]
VL9
C56
C54
C72
C55
BL58
BLM11B221SDT
[3:B5]
EOSET
IC23A
BA10358FT2
C61
C138
BL59
BLM11B221SDT
ADCLK1
NF14
NFM839470101
[3:E3]
VOUTO
IC22B
LM6172IM
R120
ERJ3GSYJ750V
R81
ERJ3GSY0R00V
R82
ERJ3GSY0R00V
R83
ERJ3GSY0R00V
DA5
1SS396
C60
ECJ1VF1C104Z
BL62
BLM11B221SDT
ECEA1CKA100B
ECJ1VB1C104Z
C70
C52
C63
C71
IC20
TC35071F
SVDATAB0
SVDATAB1
SVDATAB2
SVDATAB3
SVDATAB4
SVDATAB5
SVDATAB6
SVDATAB7
SVDATAB[0..7]
[3:E3]
VL10
C51
C49
C69
C50
BL61
BLM11B221SDT
[3:B5]
OOSET
IC23B
BA10358FT2
C62
BL60
BLM11B221SDT
ADCLK2
NF15
NFM839470101
Model
FFPWB06641
For DP-130/150
Drawing Name
CCDIF.SCH
(6/7)

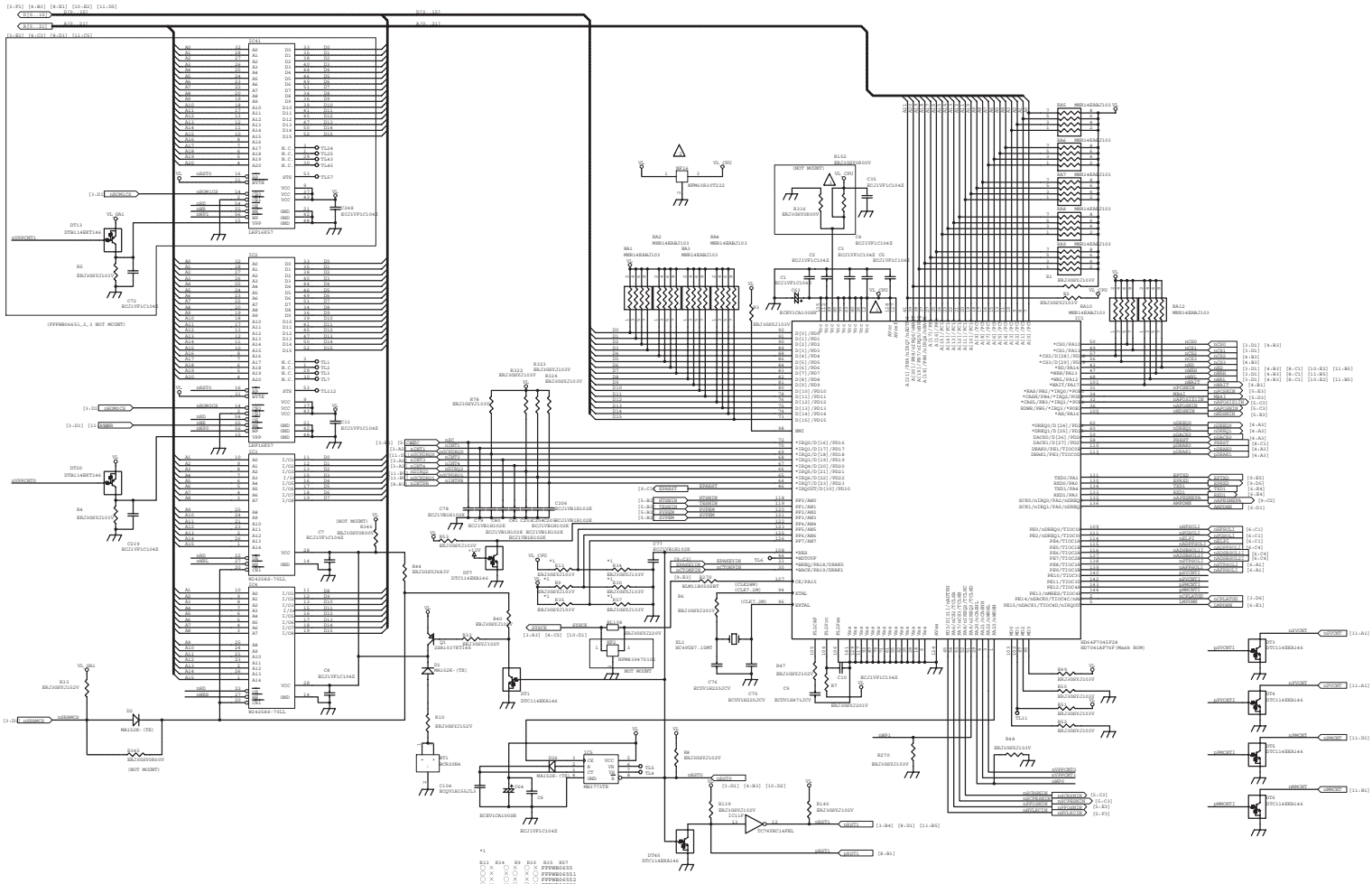


Model	Drawing Name
FFPWB06641 For DP-130/150	CONNECTOR.SCH (7/7)

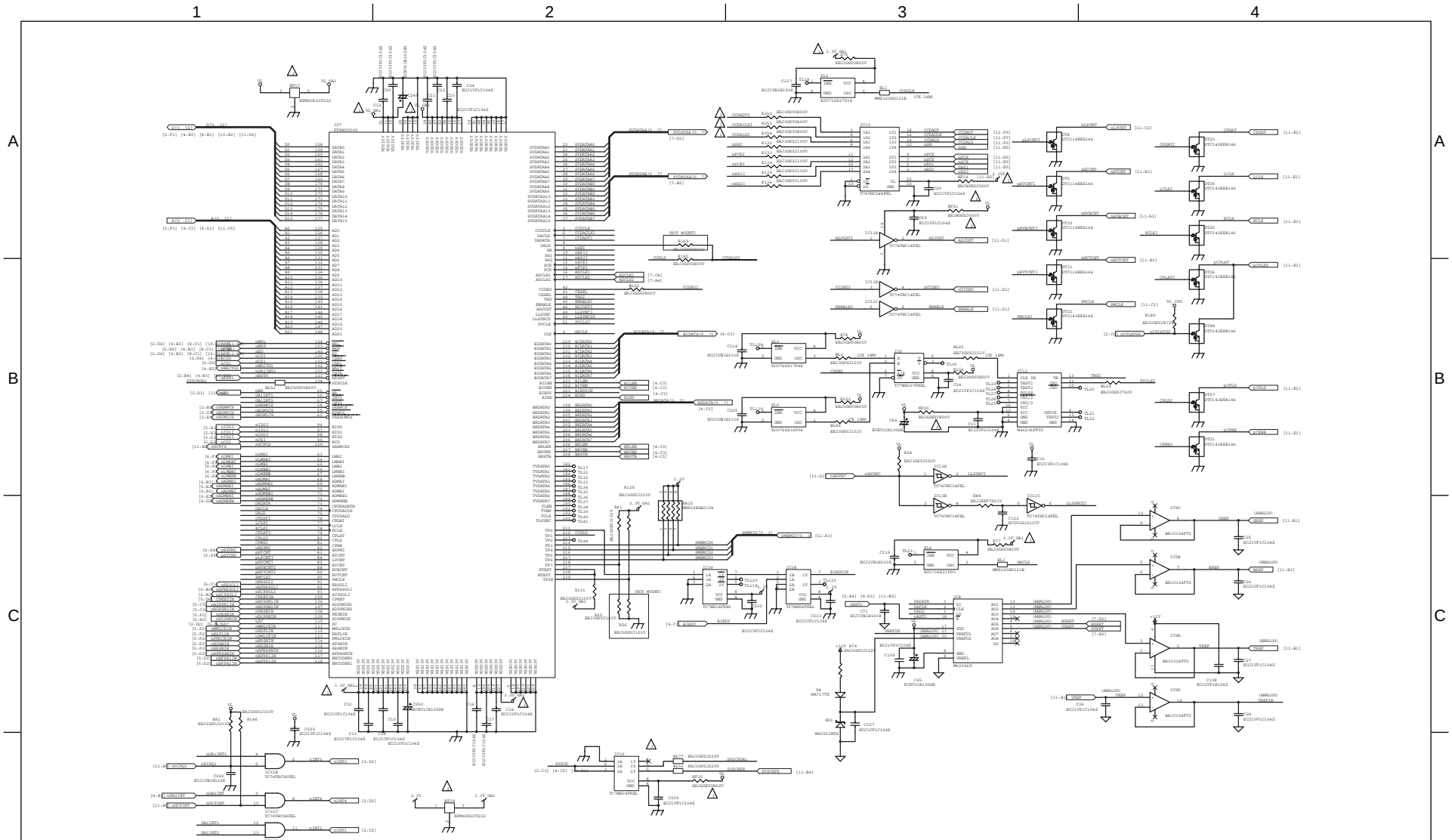
2.3. CPU PC Board (P/A/PA/PP/FX Model)



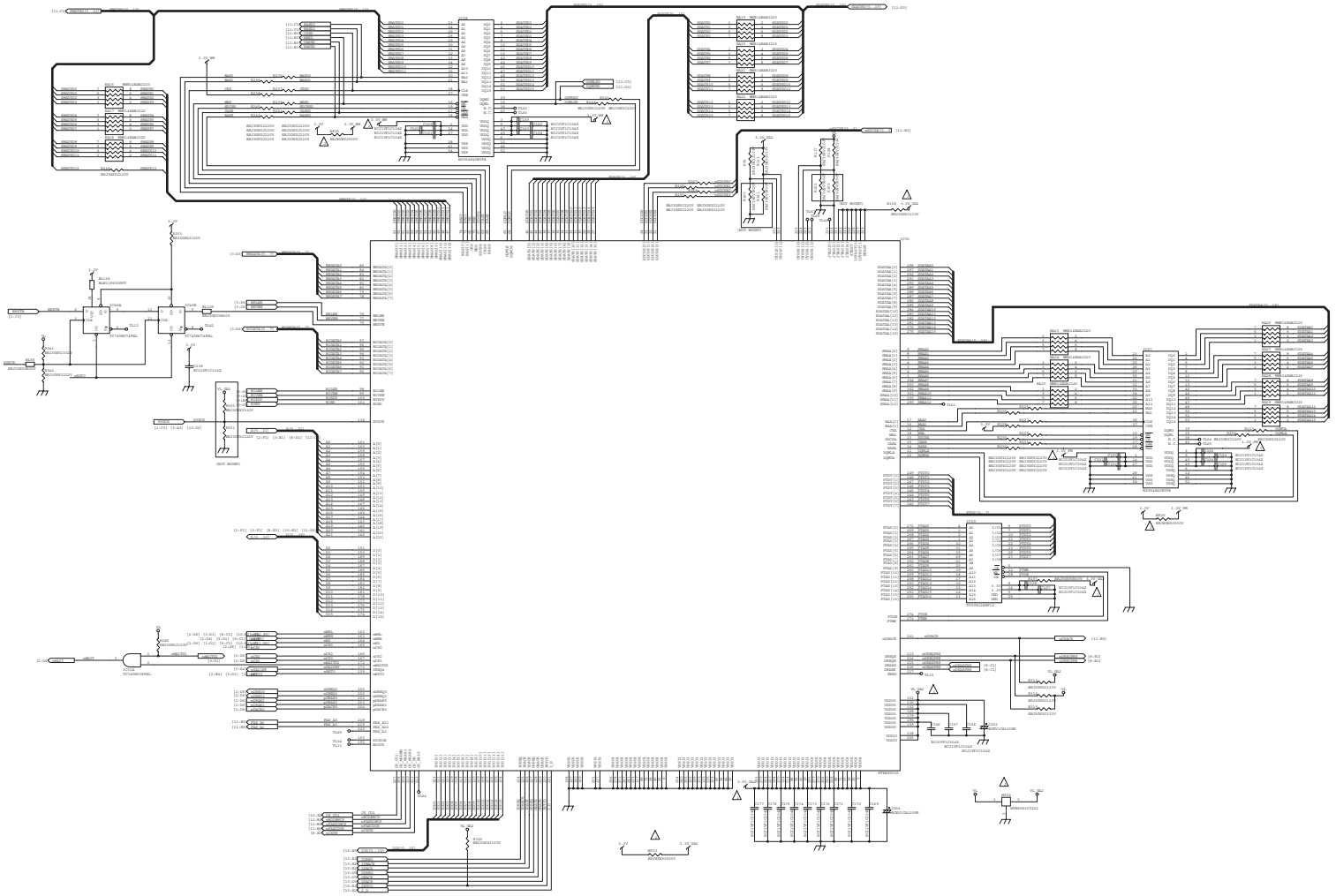
Model		Drawing Name	
FFPWB0665	For DP-150FX/FP	MAINROOT	(1/11)
FFPWB06651	For DP-150A		
FFPWB06652	For DP-130P/150P		
FFPWB06653	For DP-150PA		



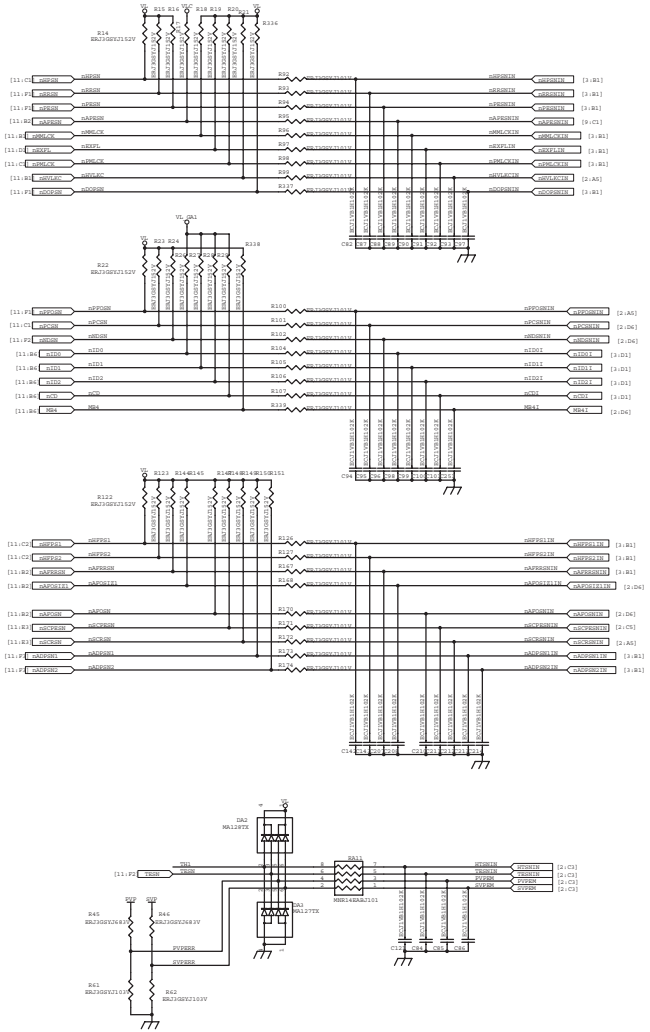
Model		Drawing Name
FFPWB0665	For DP-150FX/FP	CPUBLK.SCH (2/11)
FFPWB06651	For DP-150A	
FFPWB06652	For DP-130P/150P	
FFPWB06653	For DP-150PA	

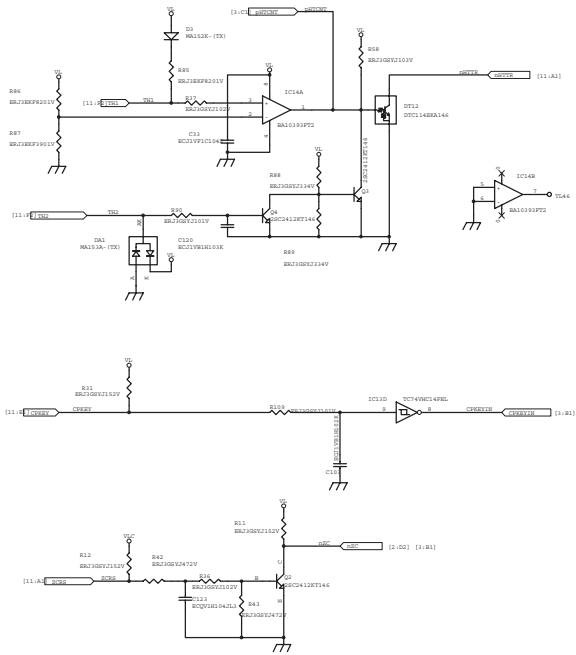


Model		Drawing Name	
FFPWB0665	For DP-150FX/FP	GABLK.SCH	(3/11)
FFPWB06651	For DP-150A		
FFPWB06652	For DP-130P/150P		
FFPWB06653	For DP-150PA		

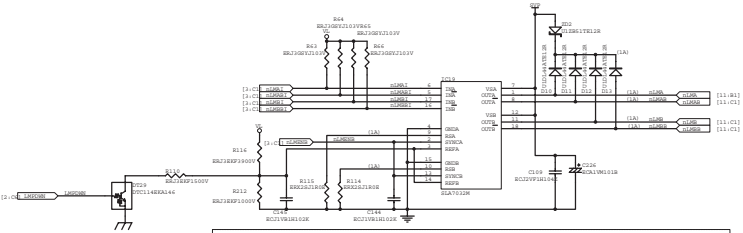


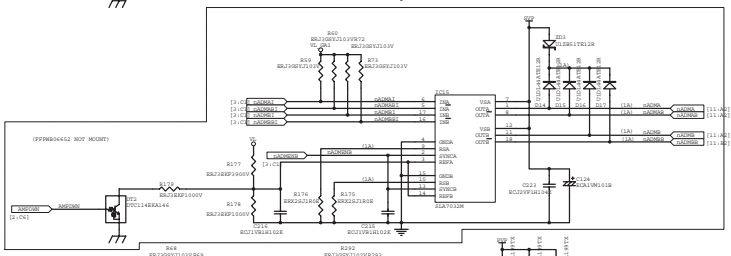
Model		Drawing Name	
FFPWB0665	For DP-150FX/FP	GA2BLK.SCH	(4/11)
FFPWB06651	For DP-150A		
FFPWB06652	For DP-130P/150P		
FFPWB06653	For DP-150PA		

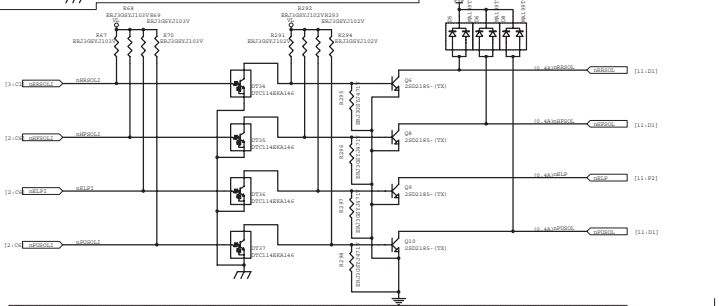


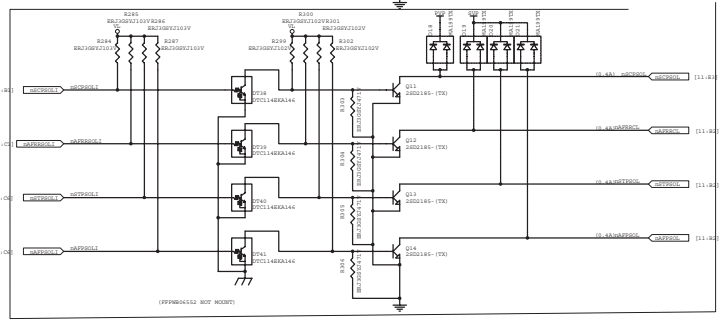


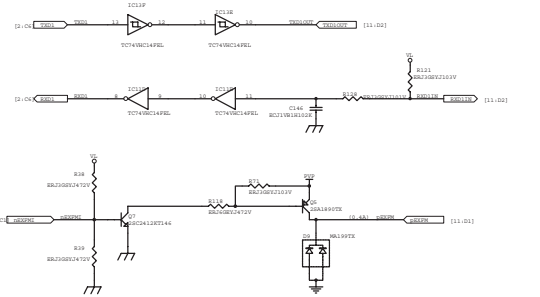
Model		Drawing Name	
FFPWB0665	For DP-150FX/FP	INPUT.SCH	(5/11)
FFPWB06651	For DP-150A		
FFPWB06652	For DP-130P/150P		
FFPWB06653	For DP-150PA		

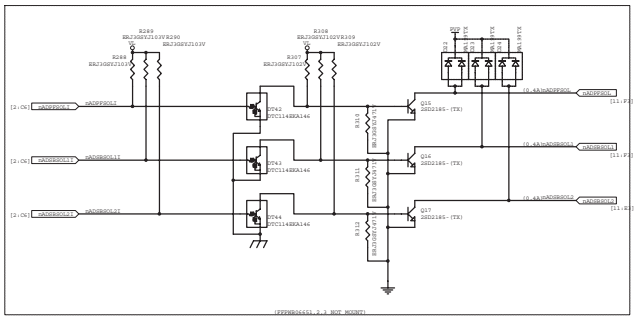




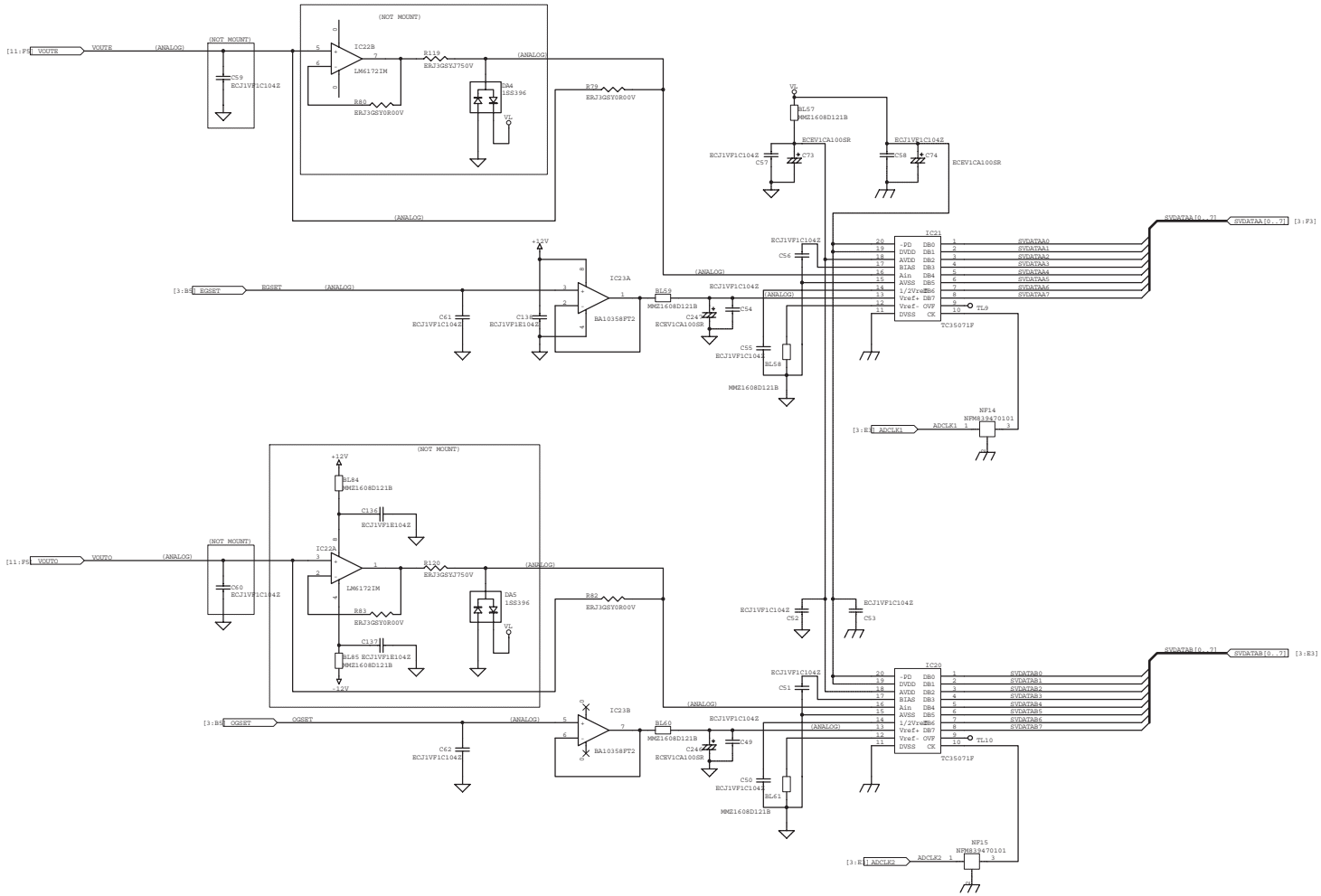




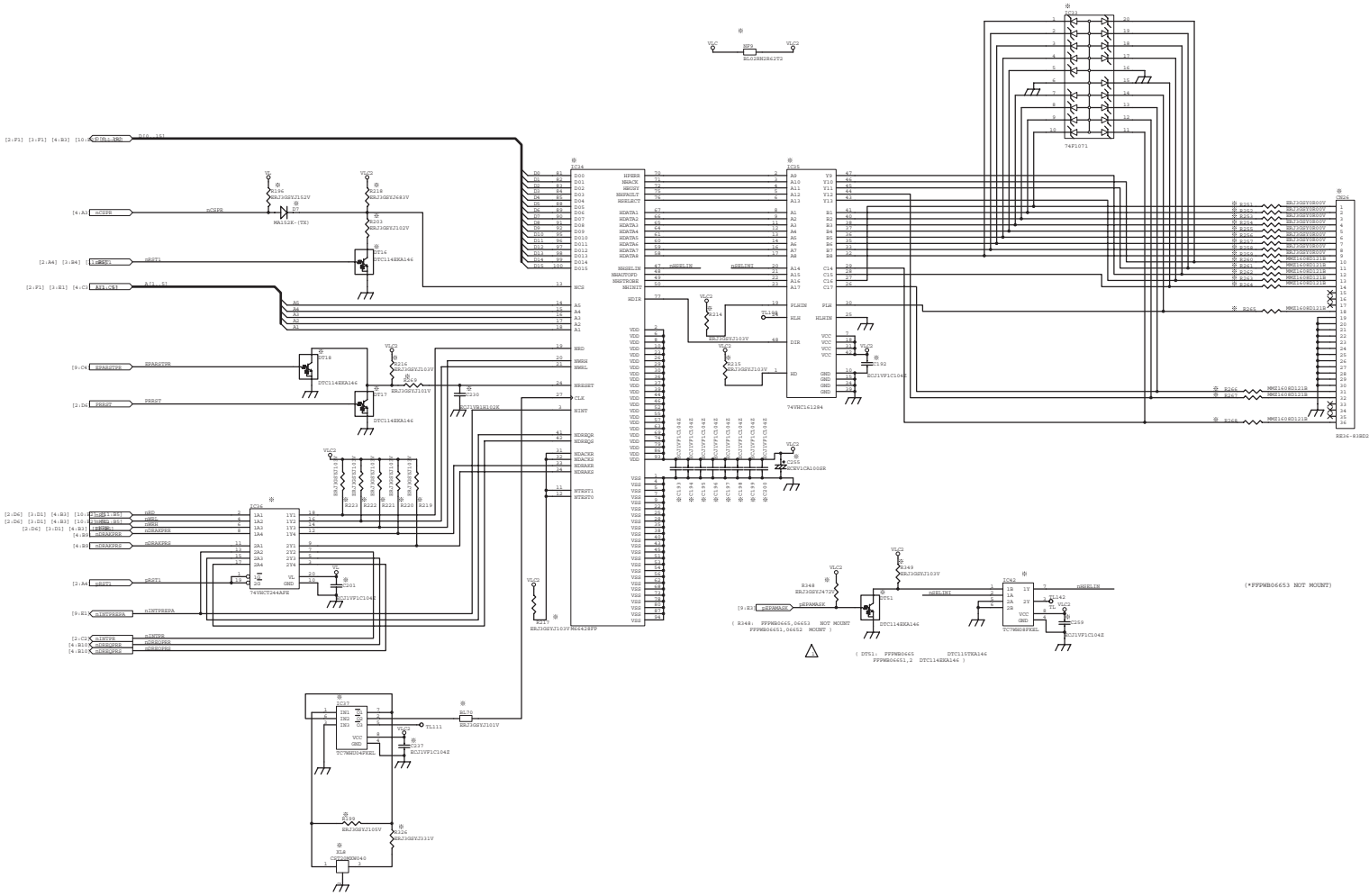




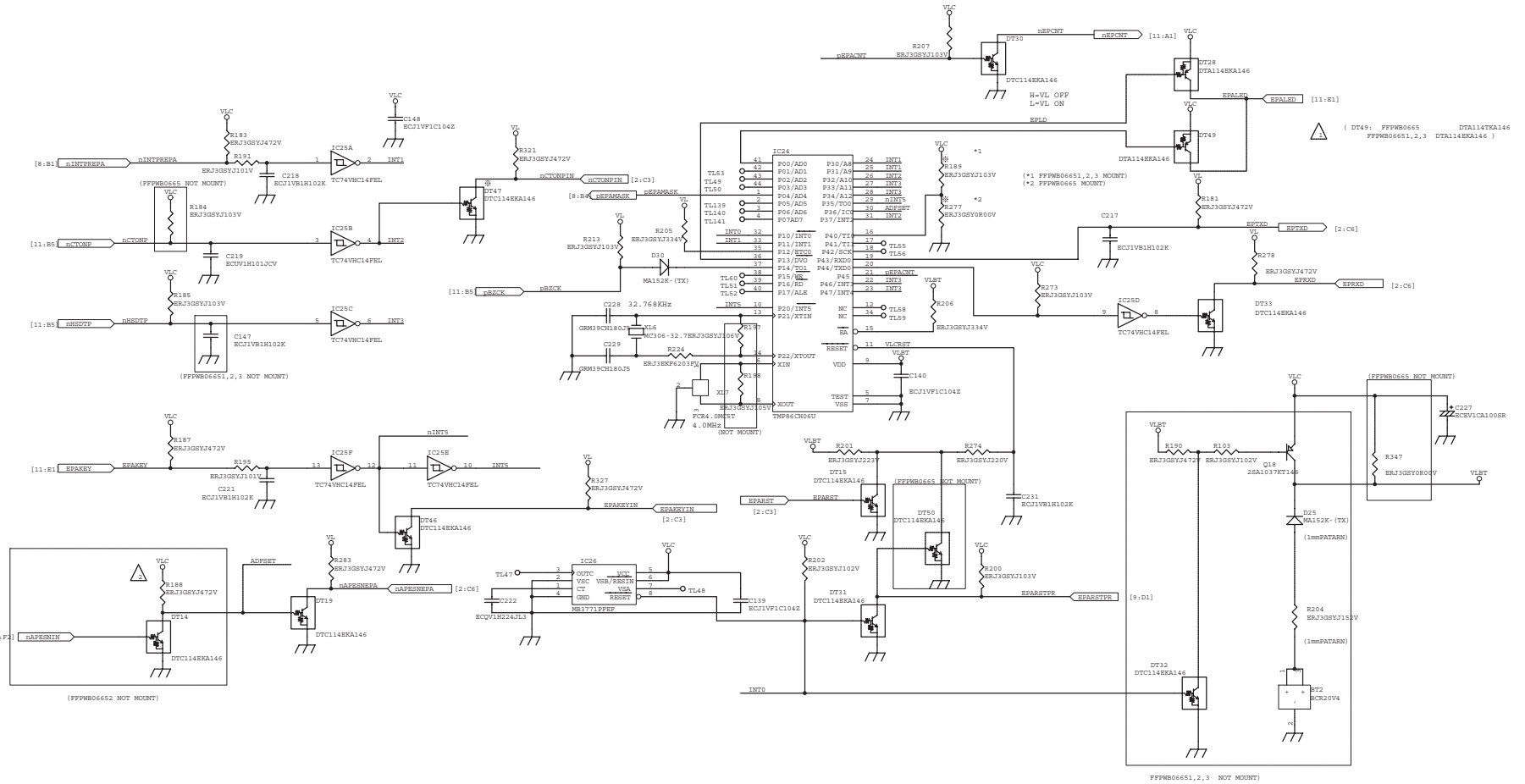
Model		Drawing Name	
FFPWB0665	For DP-150FX/FP	OUTPUT.SCH	(6/11)
FFPWB06651	For DP-150A		
FFPWB06652	For DP-130P/150P		
FFPWB06653	For DP-150PA		



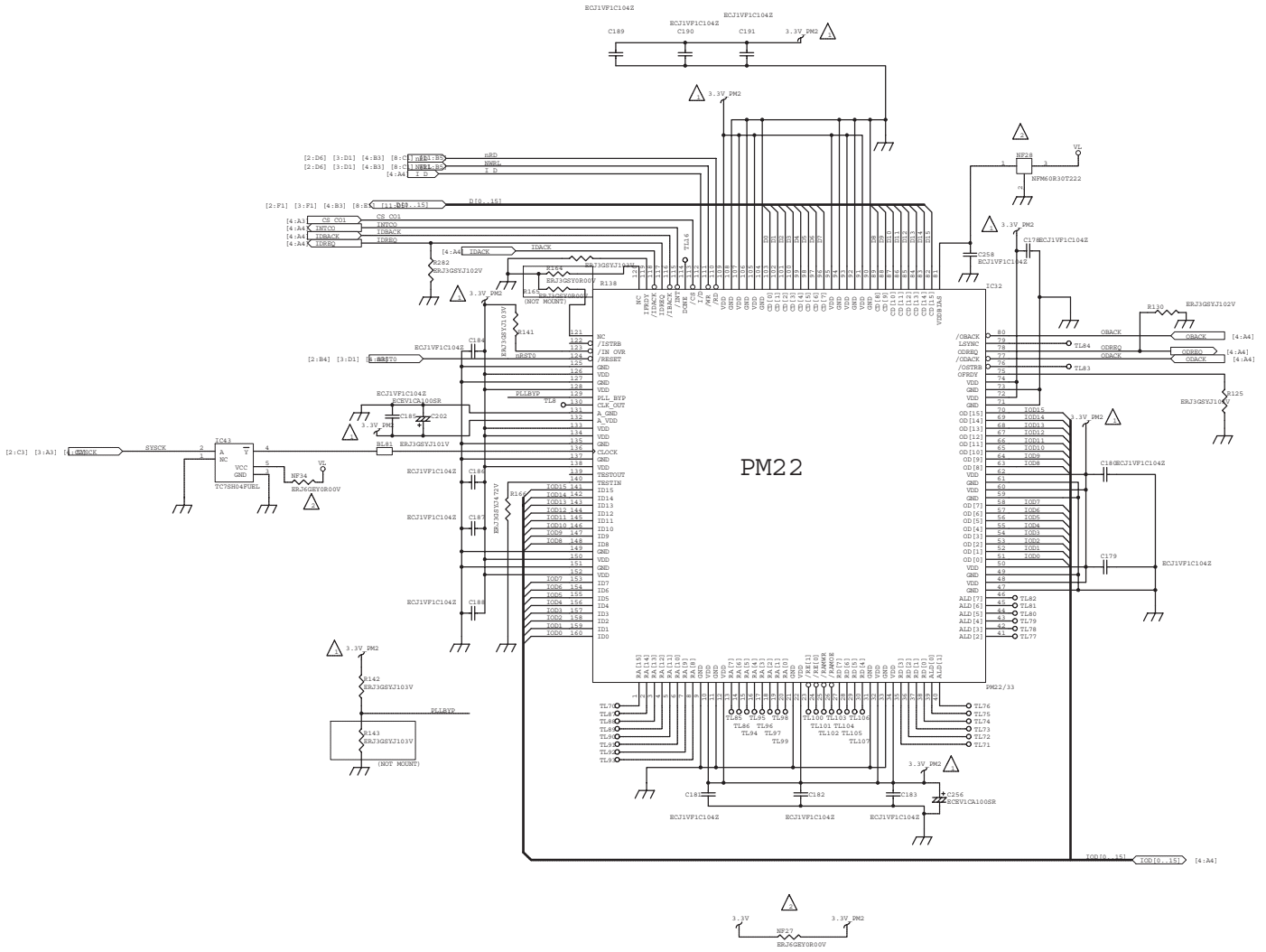
Model		Drawing Name	
FFPWB0665	For DP-150FX/FP	CCDIF.SCH	(7/11)
FFPWB06651	For DP-150A		
FFPWB06652	For DP-130P/150P		
FFPWB06653	For DP-150PA		



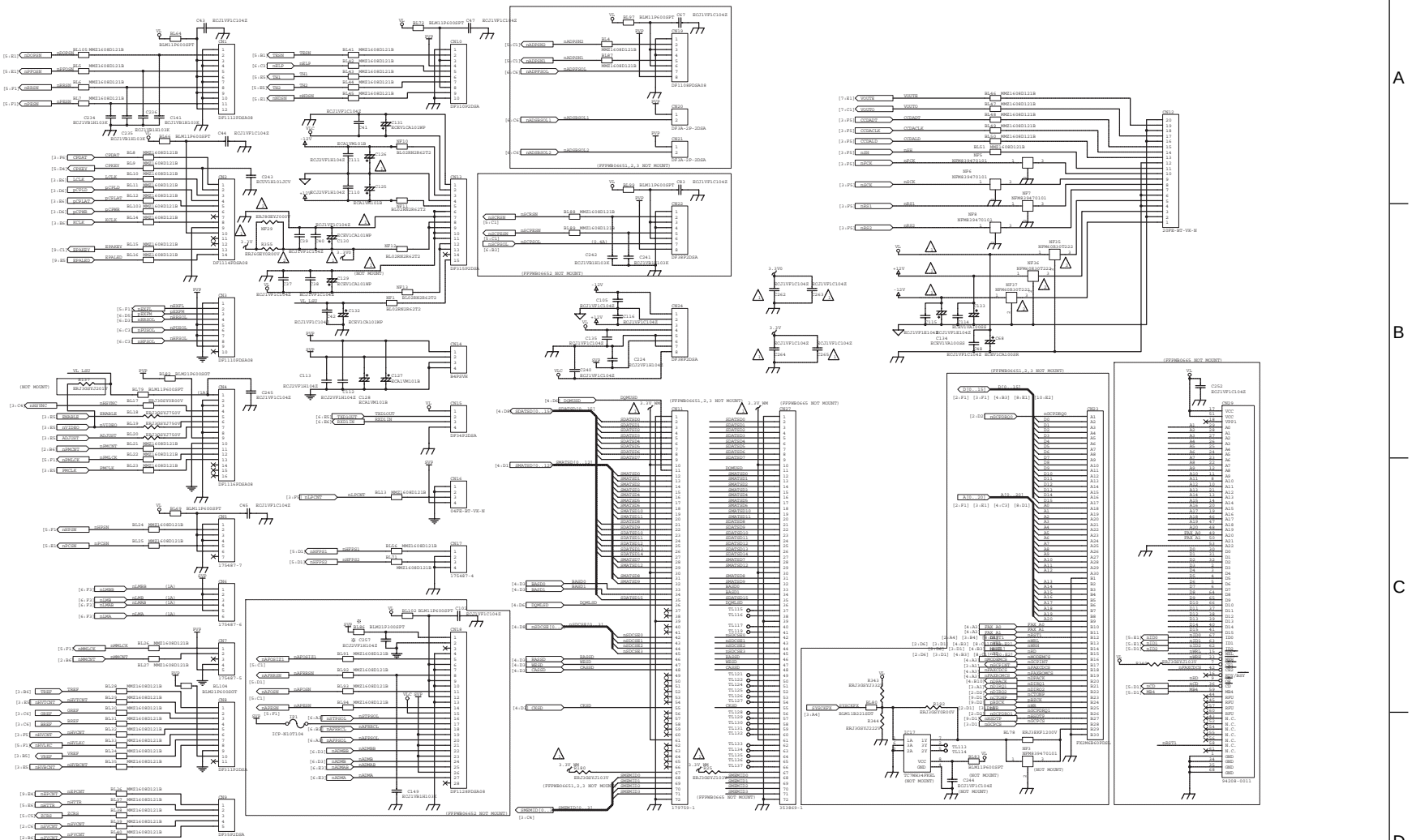
Model		Drawing Name	
FFPWB0665	For DP-150FX/FP	IEEE1284.SCH	(8/11)
FFPWB06651	For DP-150A		
FFPWB06652	For DP-130P/150P		
FFPWB06653	For DP-150PA		



Model		Drawing Name	
FFPWB0665	For DP-150FX/FP	EPACPU.SCH	(9/11)
FFPWB06651	For DP-150A		
FFPWB06652	For DP-130P/150P		
FFPWB06653	For DP-150PA		

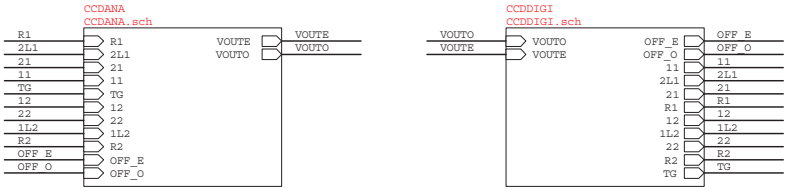


Model		Drawing Name
FFPWB0665	For DP-150FX/FP	PM2BLK.SCH (10/11)
FFPWB06651	For DP-150A	
FFPWB06652	For DP-130P/150P	
FFPWB06653	For DP-150PA	

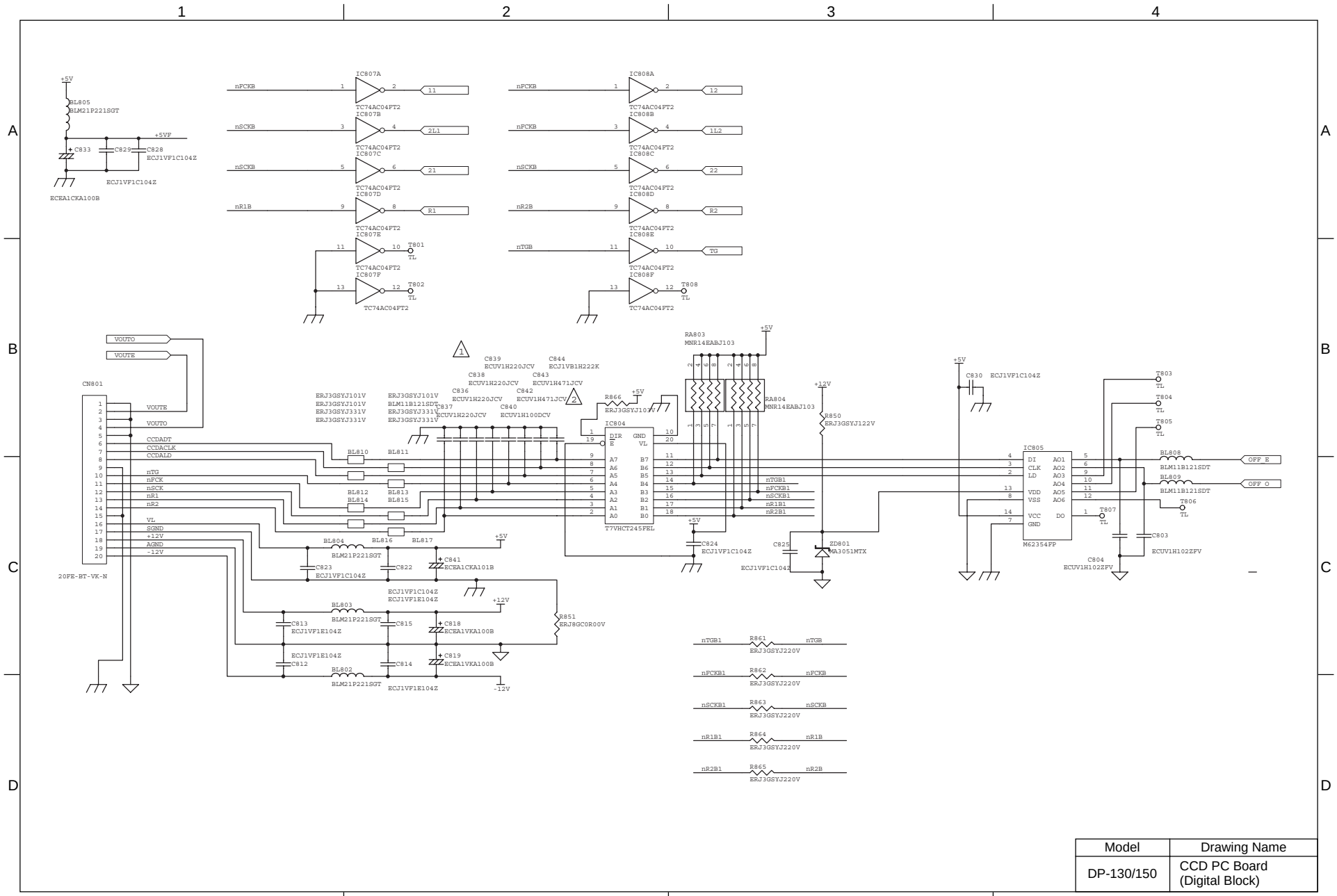


Model		Drawing Name	
FFPWB0665	For DP-150FX/FP	CONNECTOR.SCH	(11/11)
FFPWB06651	For DP-150A		
FFPWB06652	For DP-130P/150P		
FFPWB06653	For DP-150PA		

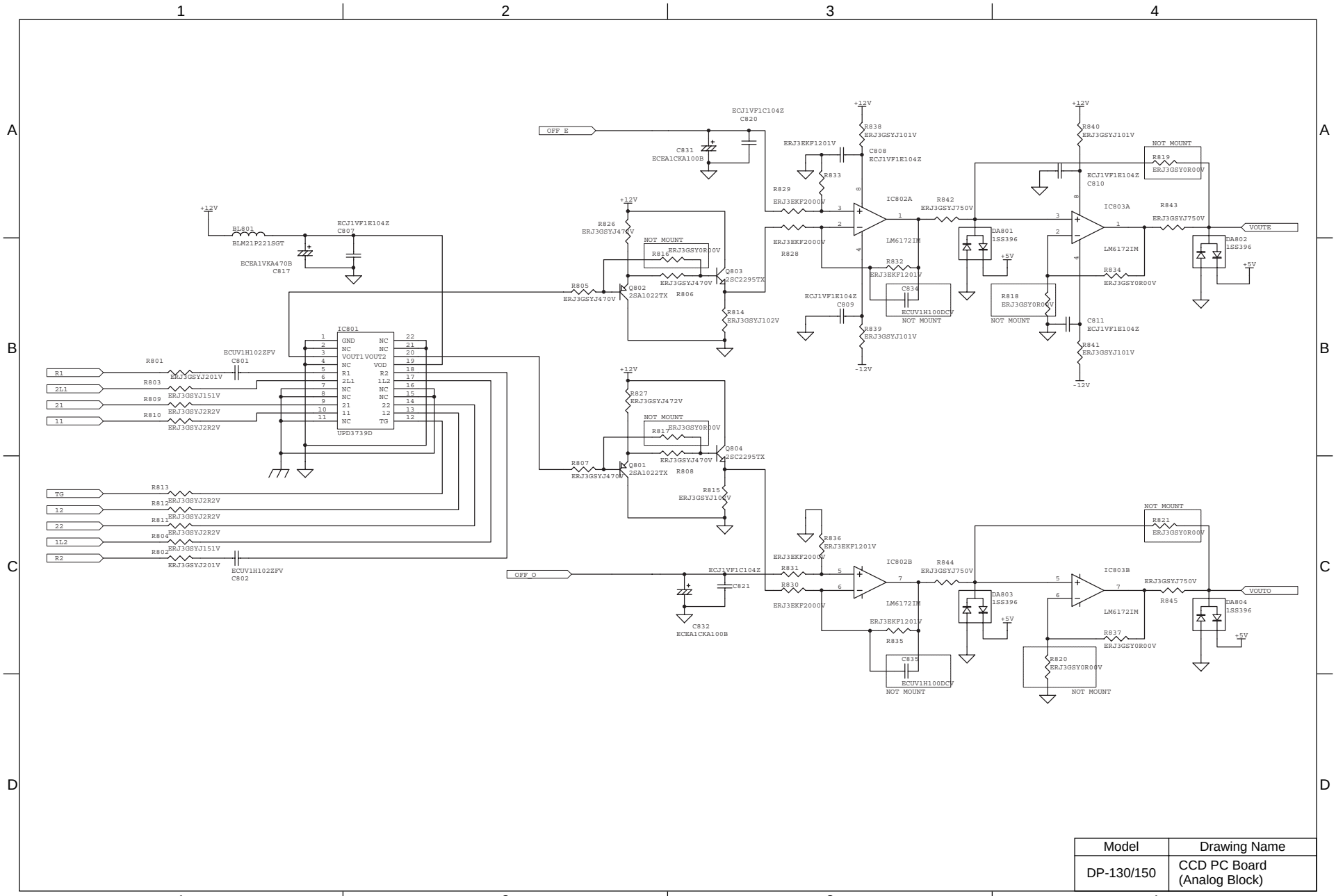
2.4. CCD PC Board



Model	Drawing Name
DP-130/150	CCD PC Board (Top Module)

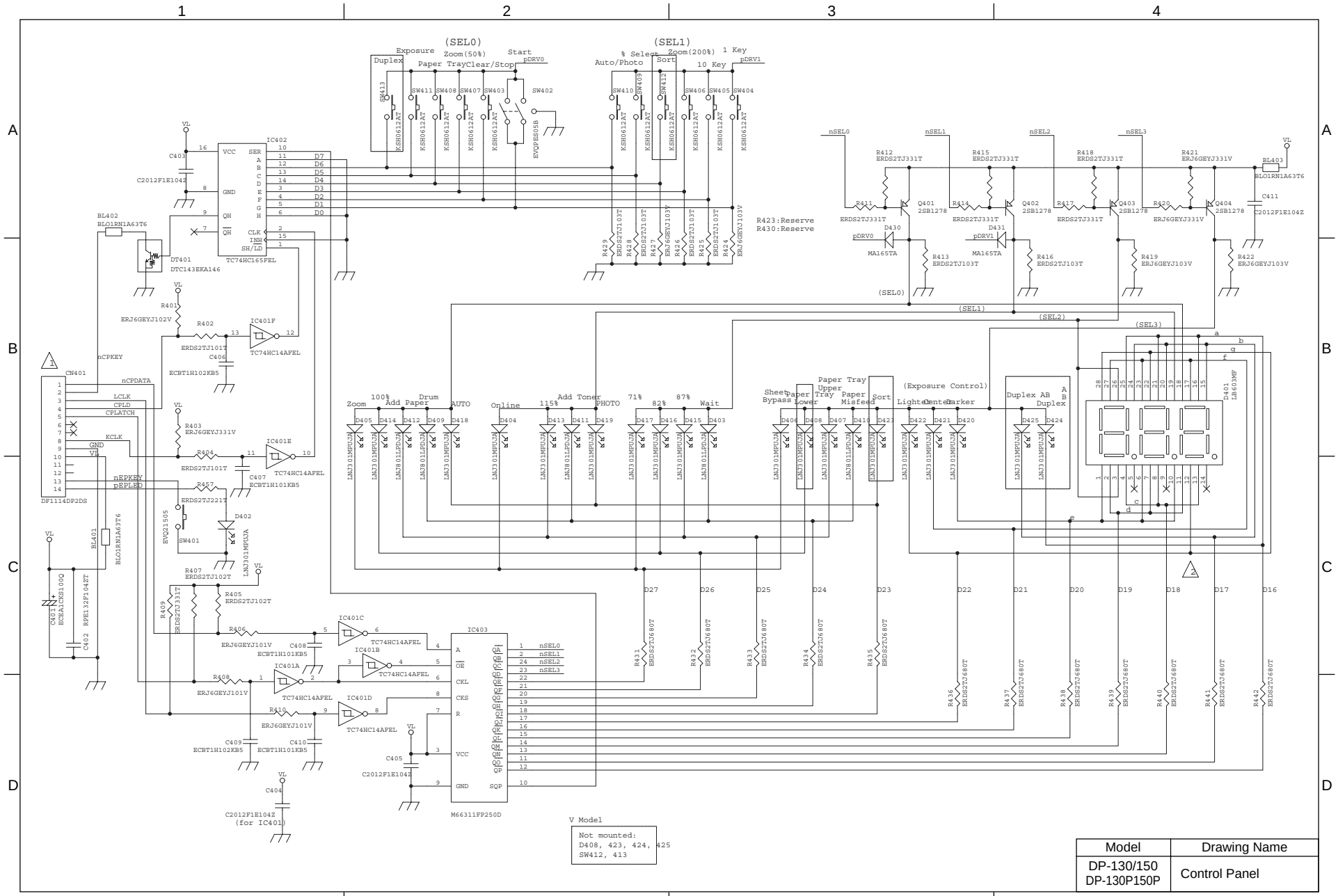


Model	Drawing Name
DP-130/150	CCD PC Board (Digital Block)

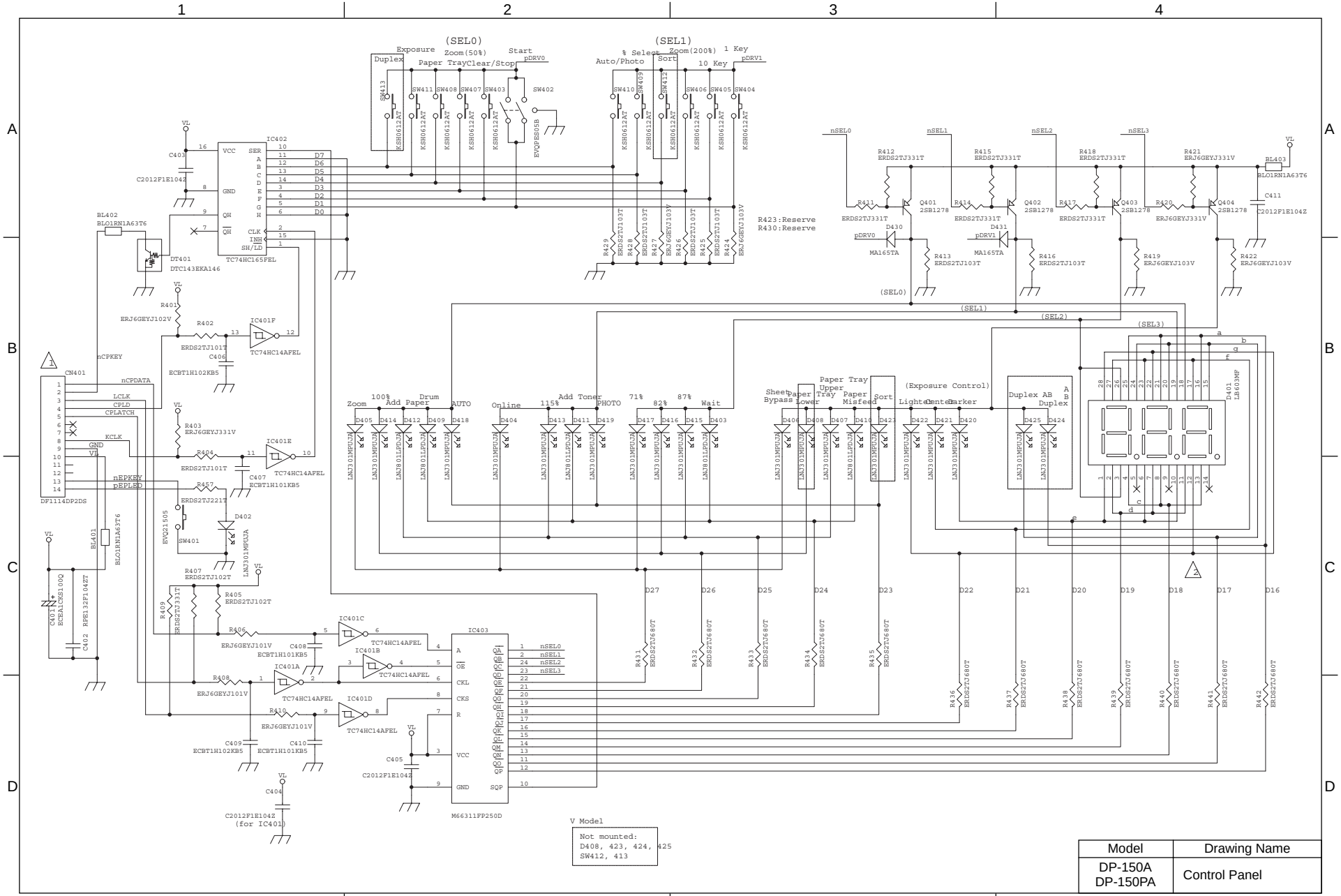


Model	Drawing Name
DP-130/150	CCD PC Board (Analog Block)

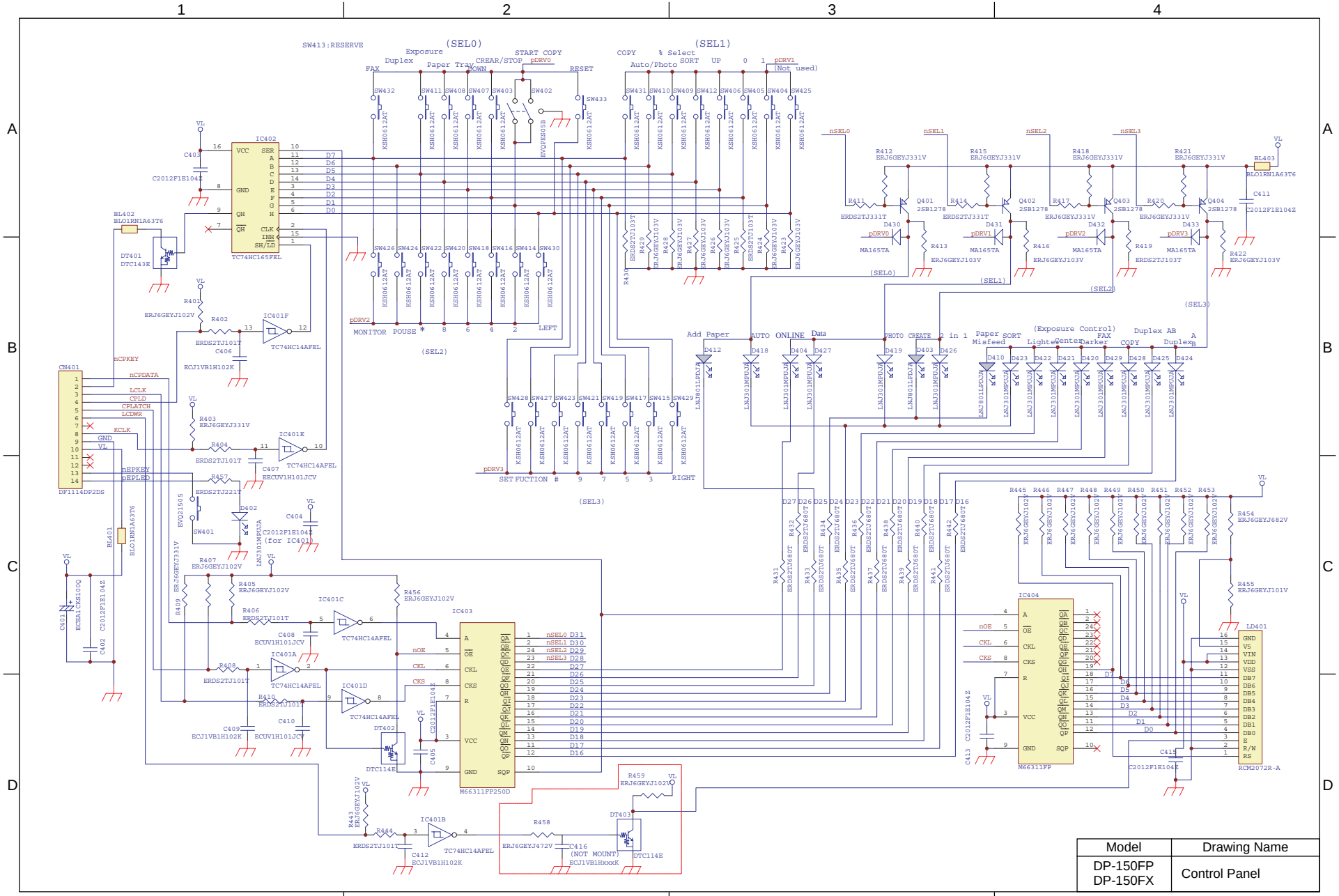
2.5. PNL PC Board (V/P Model)



2.6. PNL PC Board (A/PA Model)

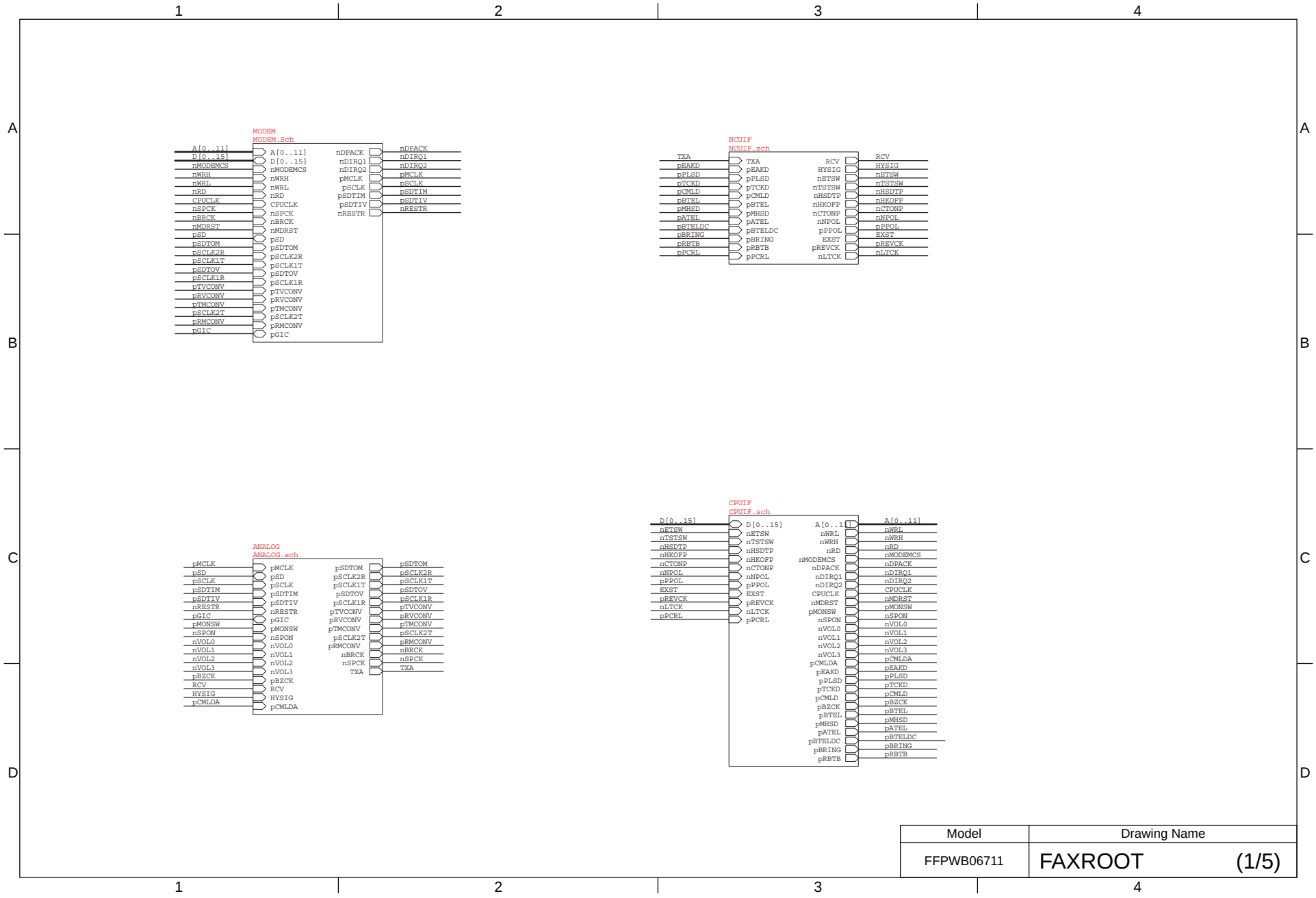


2.7. PNL PC Board (FP/FX Model)

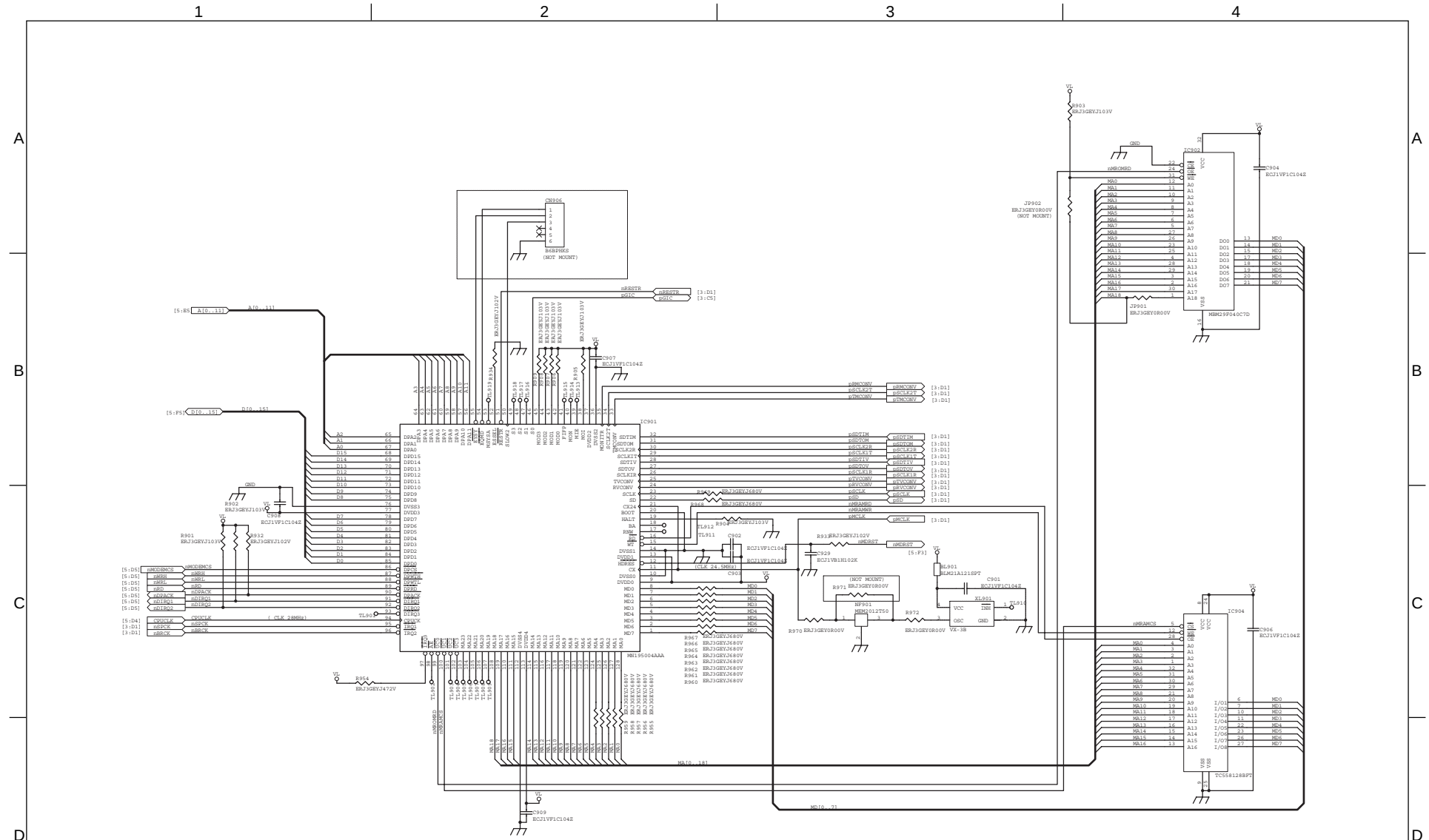


Model	Drawing Name
DP-150FP DP-150FX	Control Panel

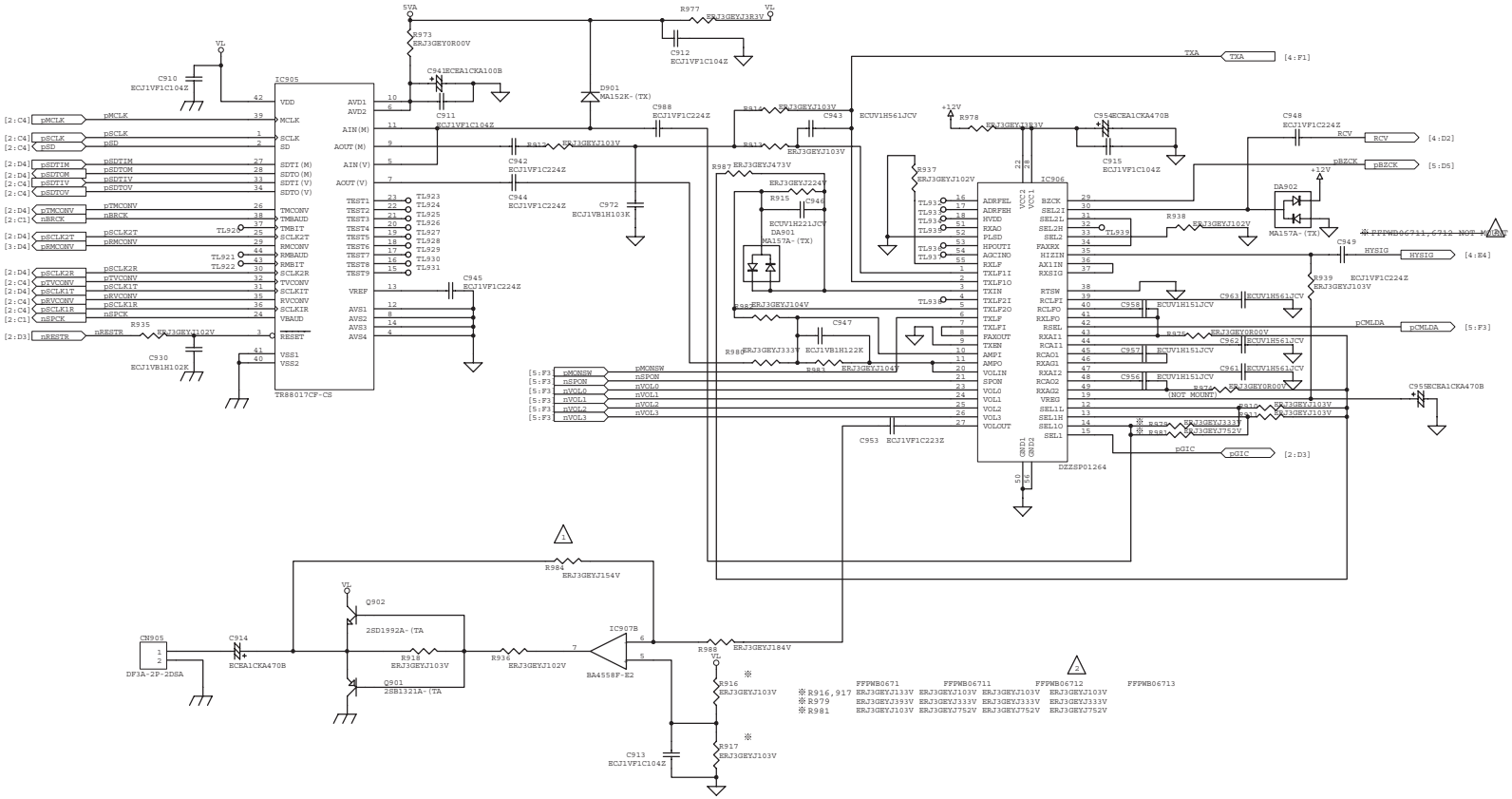
2.8. G3B PC Board



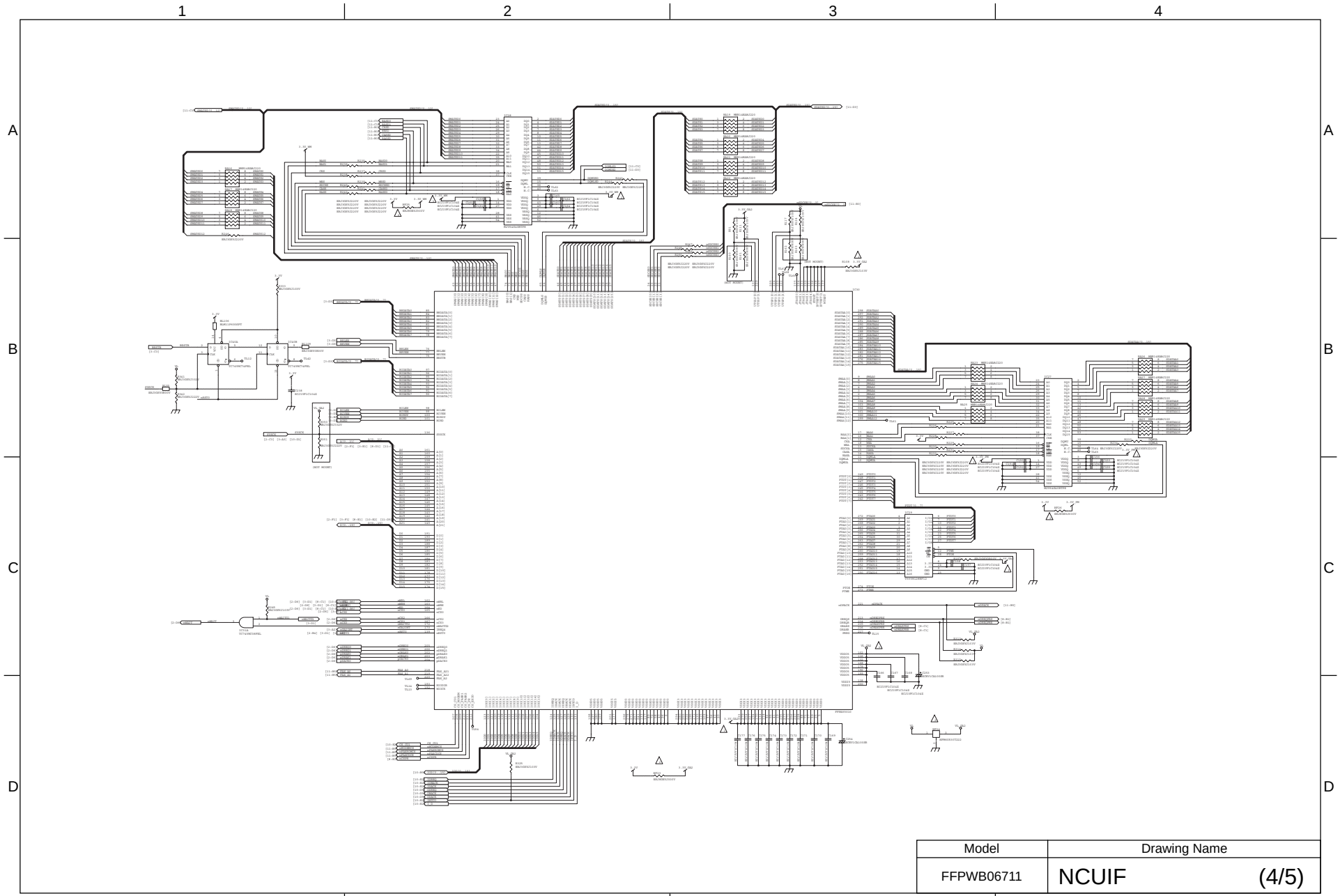
Model	Drawing Name
FFPWB06711	FAXROOT (1/5)



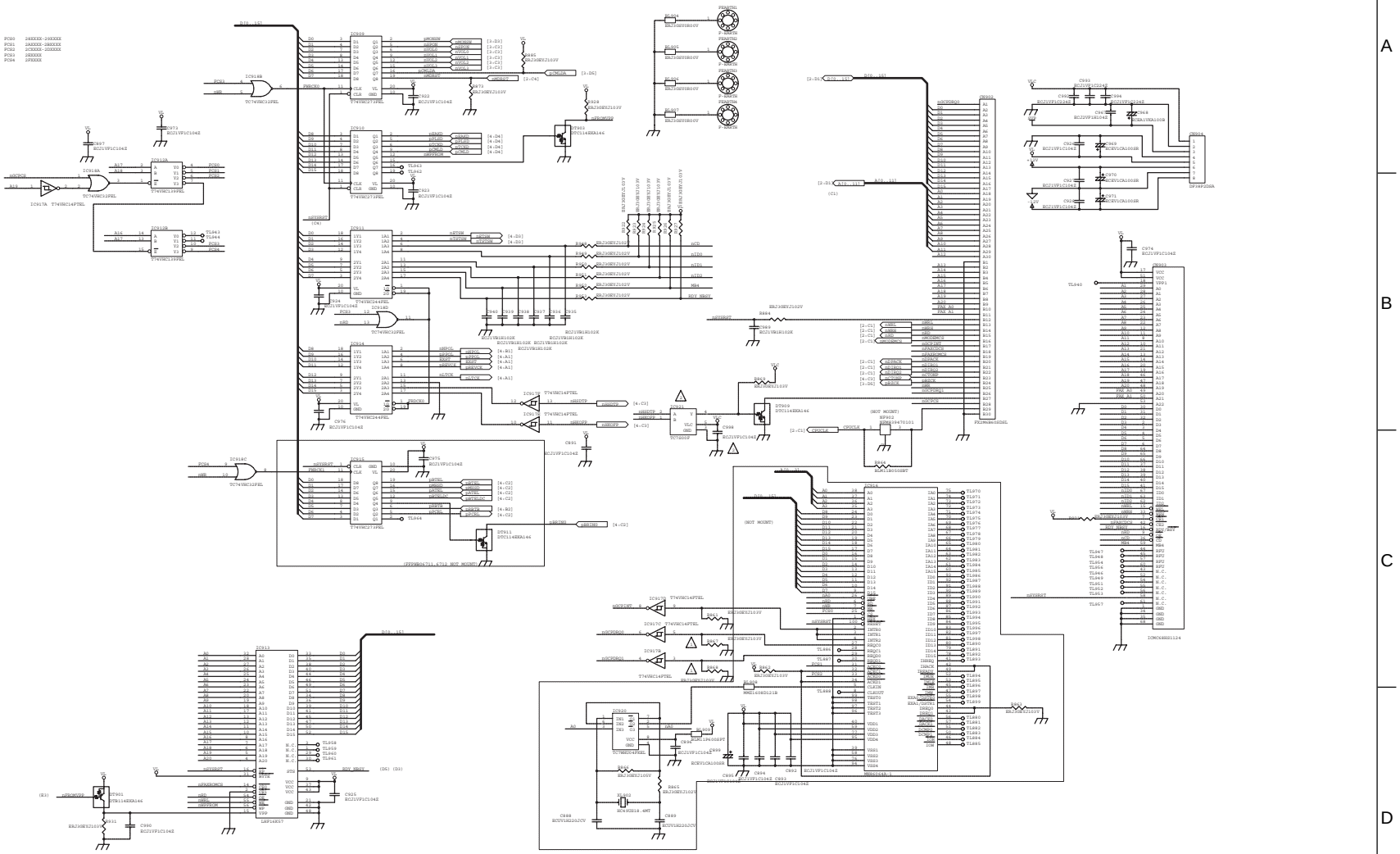
Model	Drawing Name
FFPWB06711	MODEM (2/5)



Model	Drawing Name
FFPWB06711	ANALOG (3/5)

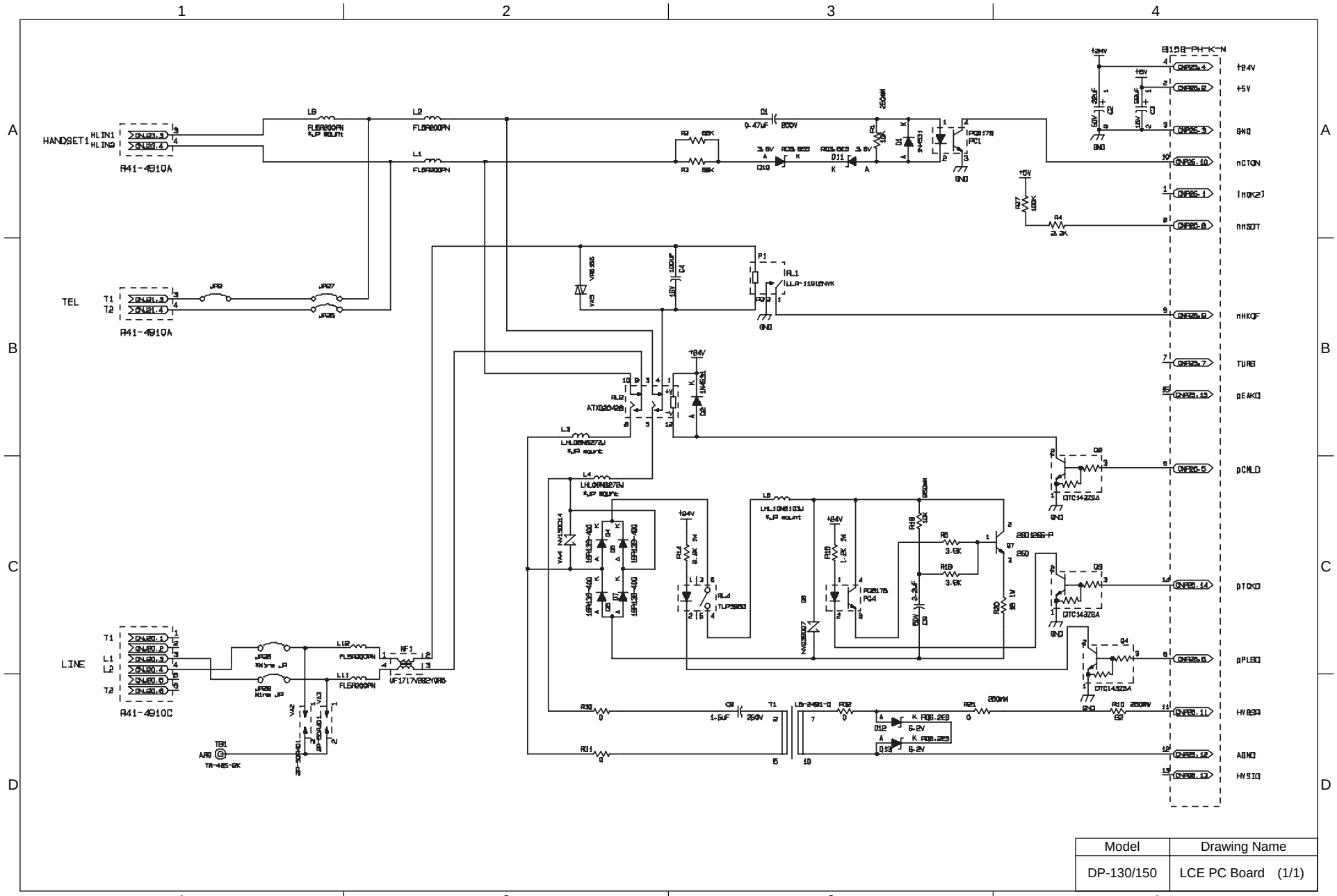


Model	Drawing Name
FFPWB06711	NCUIF (4/5)



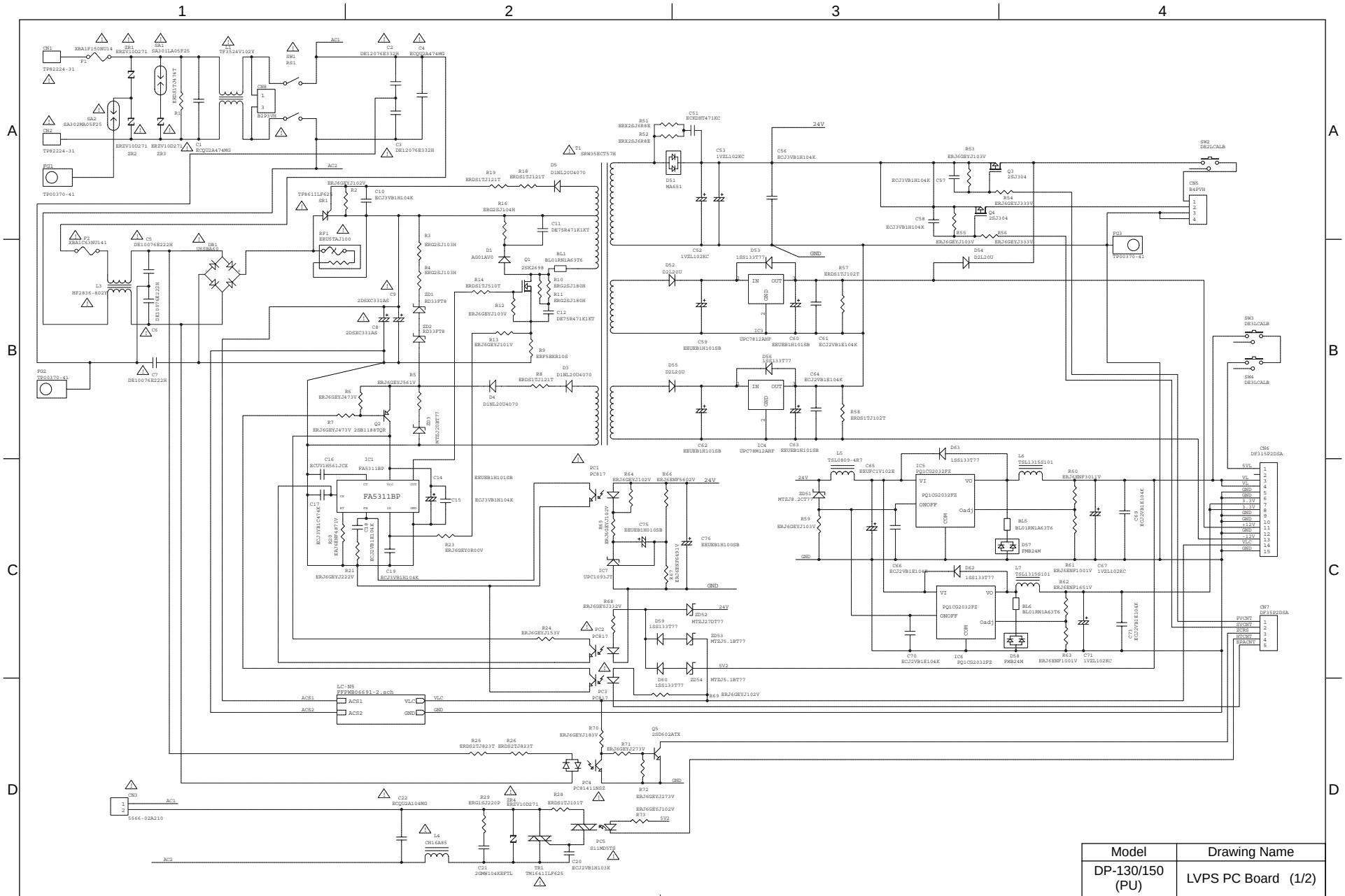
Model	Drawing Name
FFPWB06711	CPUIF (5/5)

2.9. LCE PC Board

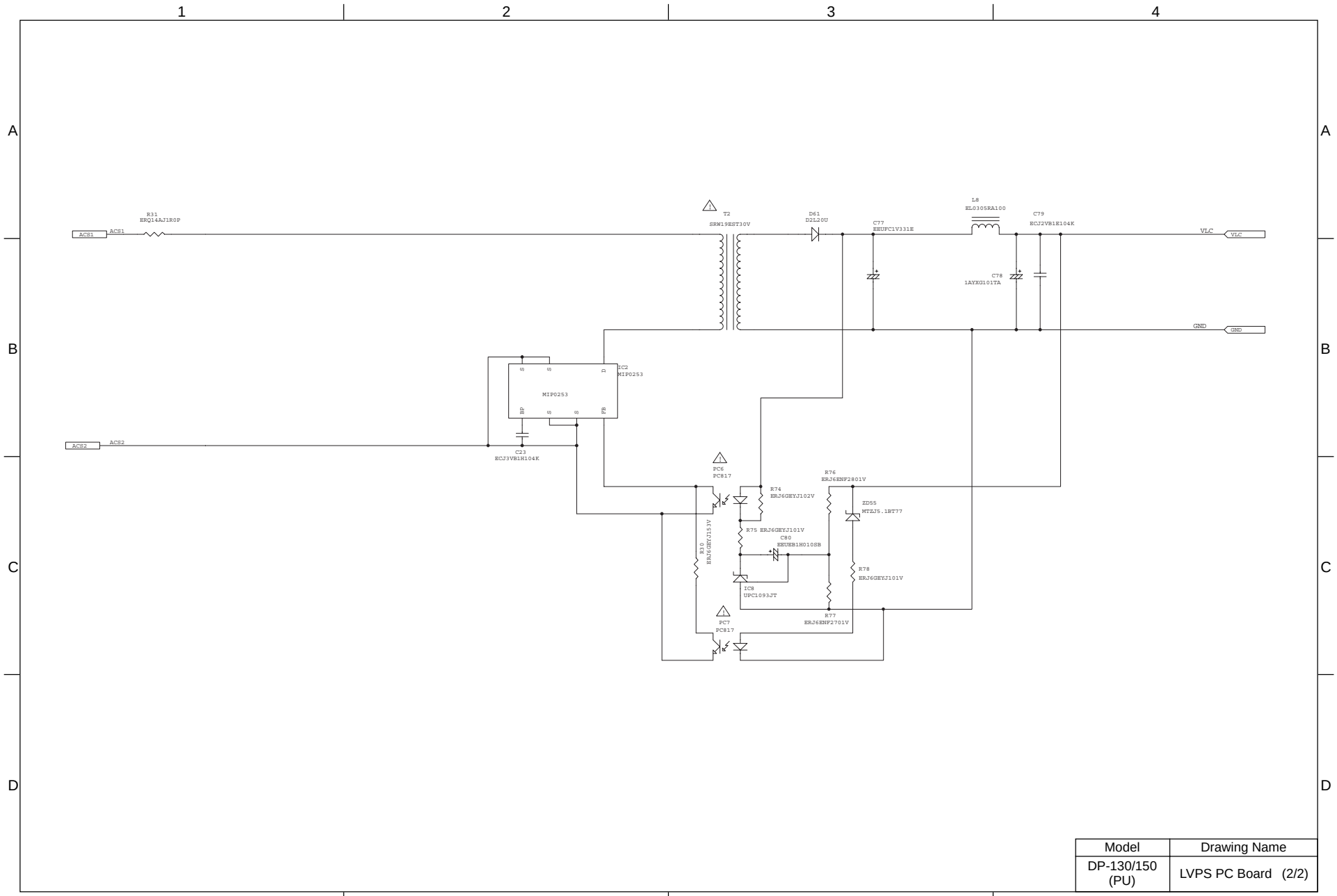


Model	Drawing Name
DP-130/150	LCE PC Board (1/1)

2.10. LVPS PC Board (North America)

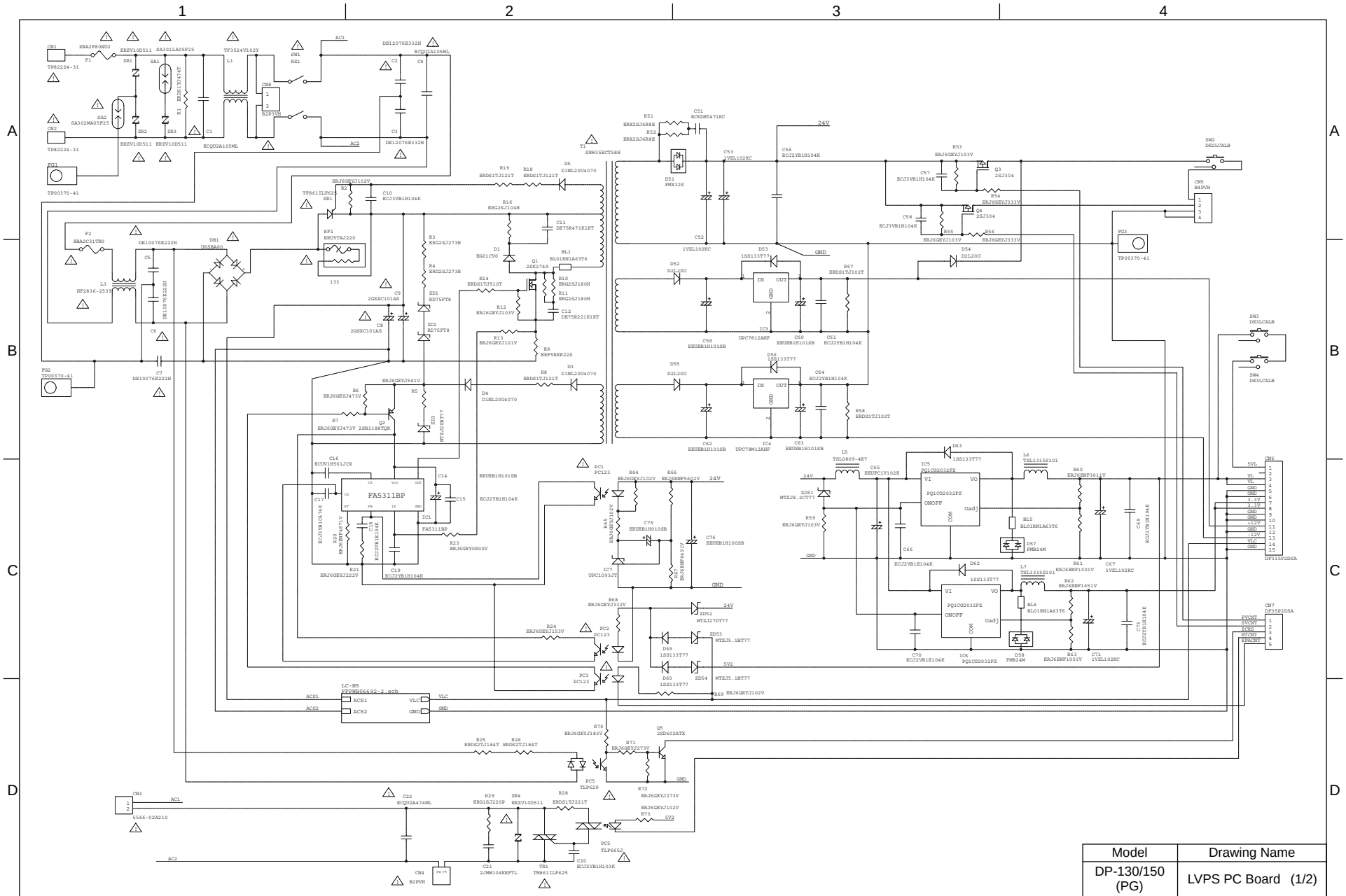


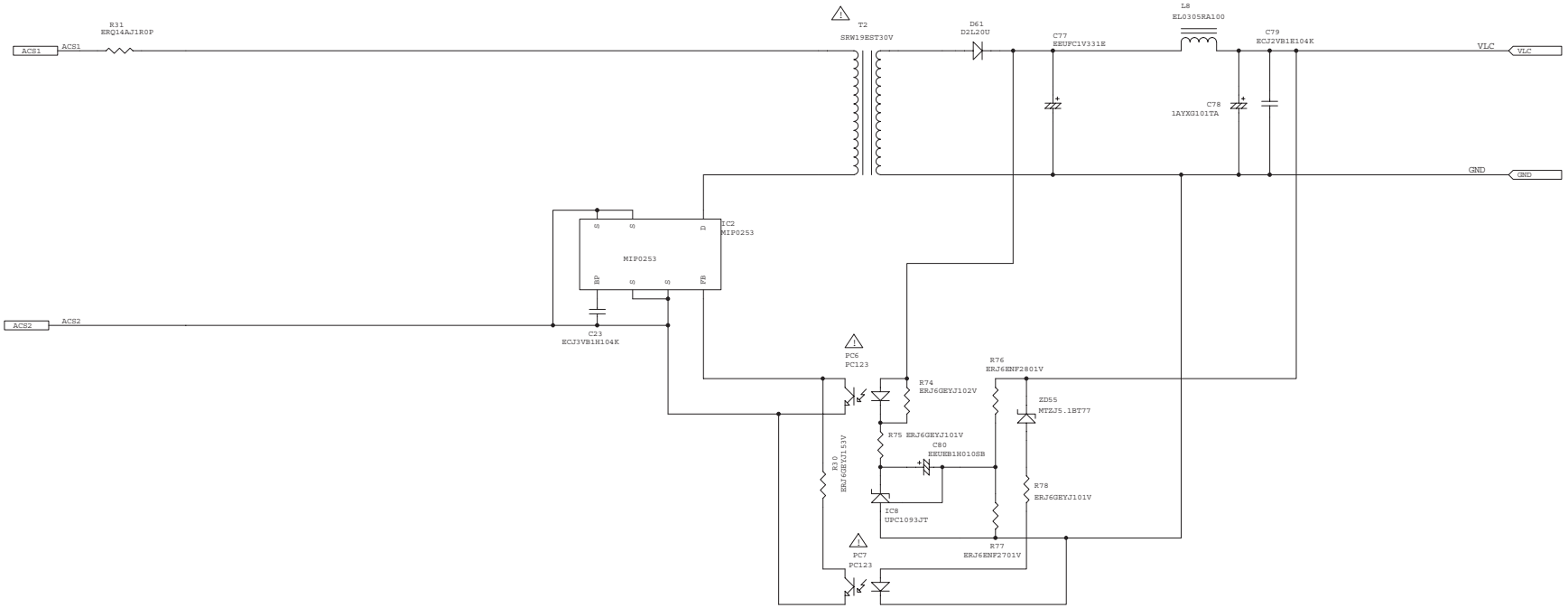
Model	Drawing Name
DP-130/150 (PU)	LVPS PC Board (1/2)



Model	Drawing Name
DP-130/150 (PU)	LVPS PC Board (2/2)

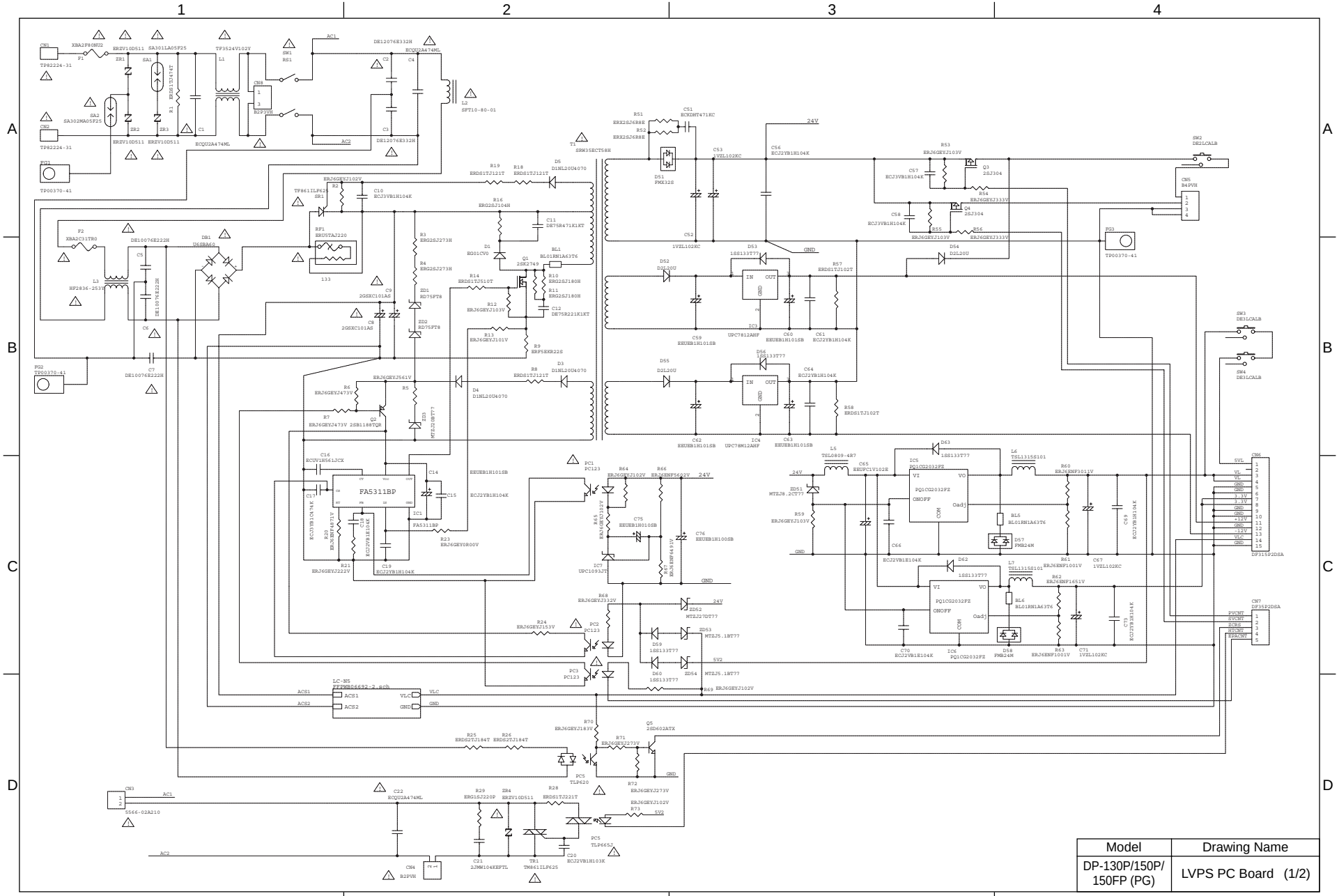
2.11. LVPS PC Board (V Model except North America)

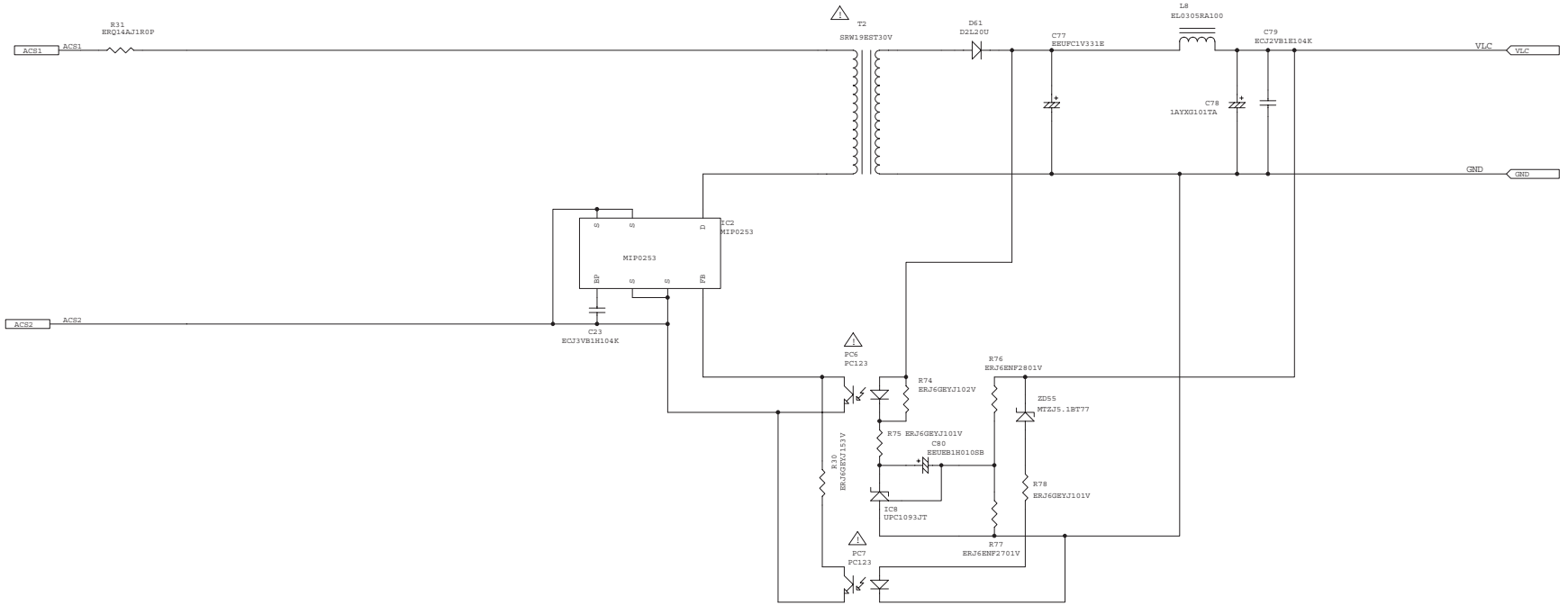




Model	Drawing Name
DP-130/150 (PG)	LVPS PC Board (2/2)

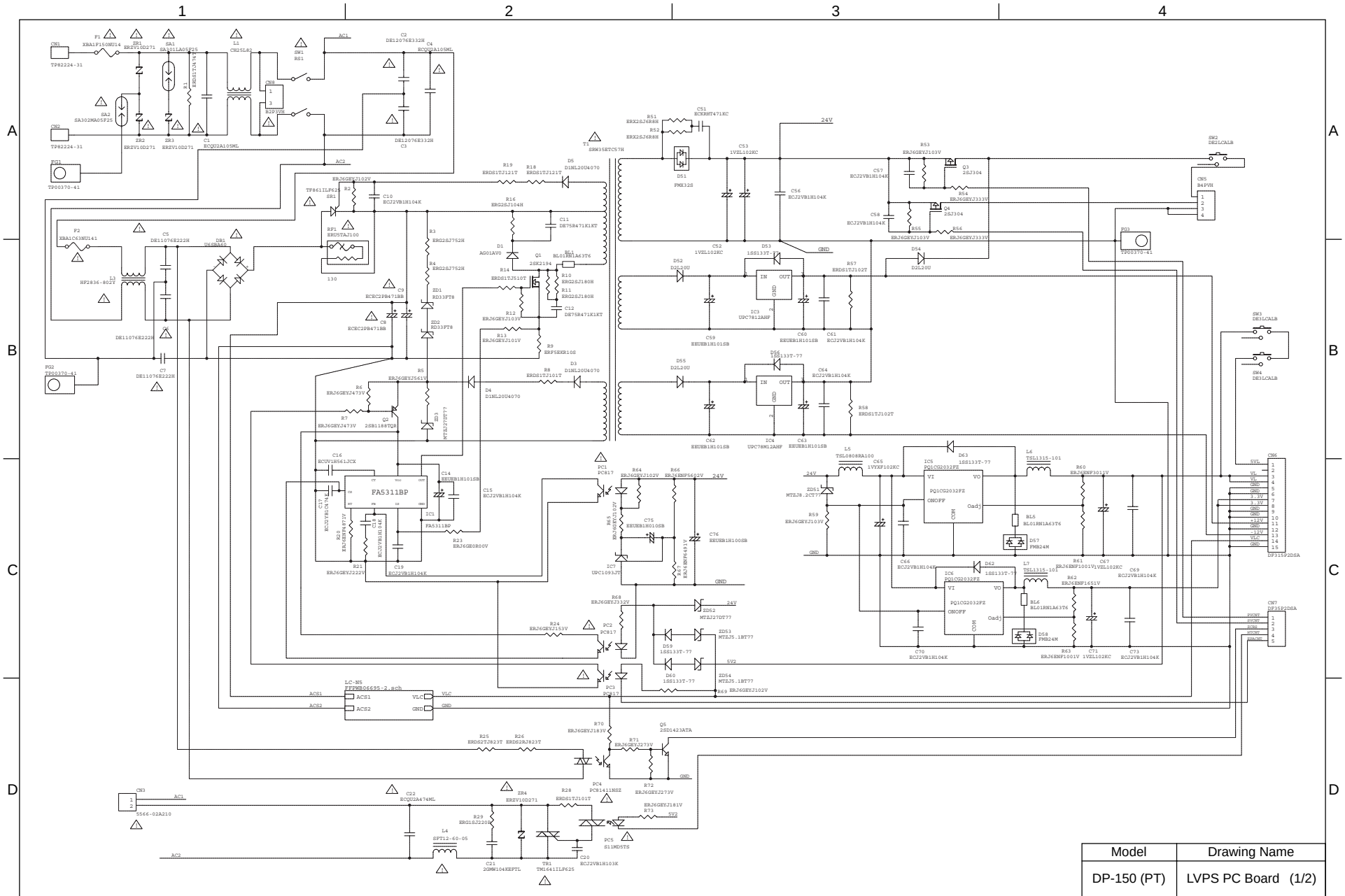
2.12. LVPS PC Board (P/FP Model except North America)

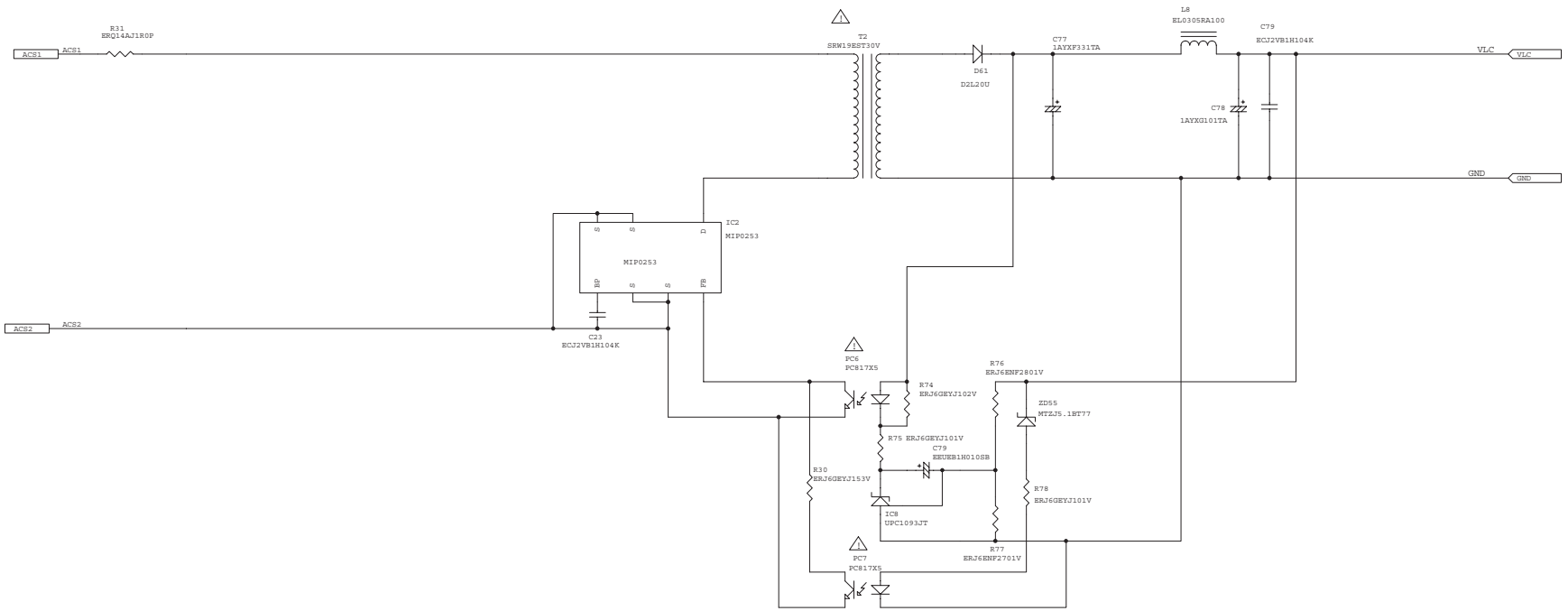




Model	Drawing Name
DP-130P/150P/ 150FP (PG)	LVPS PC Board (1/2)

2.13. LVPS PC Board (Taiwan)





Model	Drawing Name
DP-150 (PT)	LVPS PC Board (2/2)

3 Electrical Circuit Diagram & Parts List

3.1. Country Codes

AA	Austria	AW	New Zealand
AB	England, Ireland	EE	Italy
AD	Denmark	YA	Panama, Peru, Chile, Argentina, Brazil (200 VAC)
AE	Taiwan		
AF	Finland	YC	Universal 200 VAC Version
AG	Germany	YF	Poland
AH	Netherlands	YG	Greece
AJ	Spain	YH	Hungary
AK	Hong Kong	YK	Korea
AL	Australia	YJ	Czecho, Slovakia
AM	Switzerland	YM	Malaysia
AN	Norway	YS	Saudi Arabia
AP	Portugal	YT	Thailand
AR	Belgium	YV	China
AS	Sweden	YW	South Africa
AT	Turkey	YX	Singapore, Indonesia
AU	USA, Puerto Rico, Canada	YY	Mexico, Panama, Brazil (100 VAC)
AV	France		

Note:

1. This parts list is provisional issue for each countries. Please contact local Panasonic company to get correct part number.
2. Important safety notice
   Components identified by ⚠ mark have special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.

3.2. Main CPU PC Board (FFPWB0665 for DP-150FX/FP)
Main CPU PC Board (FFPWB06651 for DP-150A)
Main CPU PC Board (FFPWB06652 for DP-130P/150P)
Main CPU PC Board (FFPWB06653 for DP-150PA)

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
CAPACITORS							
	C1	C1608F1E104Z	Chip			1	1
	C1	GRM39F104Z25PT	Chip	1	1		
	C2	C1608F1E104Z	Chip			1	1
	C2	GRM39F104Z25PT	Chip	1	1		
	C3	C1608F1E104Z	Chip			1	1
	C3	GRM39F104Z25PT	Chip	1	1		
	C4	C1608F1E104Z	Chip			1	1
	C4	GRM39F104Z25PT	Chip	1	1		
	C5	C1608F1E104Z	Chip			1	1
	C5	GRM39F104Z25PT	Chip	1	1		
	C6	C1608F1E104Z	Chip			1	1
	C6	GRM39F104Z25PT	Chip	1	1		
	C7	C1608F1E104Z	Chip			1	1
	C7	GRM39F104Z25PT	Chip	1	1		
	C8	C1608F1E104Z	Chip			1	1
	C8	GRM39F104Z25PT	Chip	1	1		
	C9	C1608H1H471J	Chip			1	1
	C9	GRM39CH471J50PT	Chip	1	1		
	C10	C1608F1E104Z	Chip			1	1
	C10	GRM39F104Z25PT	Chip	1	1		
	C11	C1608F1E104Z	Chip			1	1
	C11	GRM39F104Z25PT	Chip	1	1		
	C12	C1608F1E104Z	Chip			1	1
	C12	GRM39F104Z25PT	Chip	1	1		
	C13	C1608F1E104Z	Chip			1	1
	C13	GRM39F104Z25PT	Chip	1	1		
	C14	C1608F1E104Z	Chip			1	1
	C14	GRM39F104Z25PT	Chip	1	1		
	C15	C1608F1E104Z	Chip			1	1
	C15	GRM39F104Z25PT	Chip	1	1		
	C16	C1608F1E104Z	Chip			1	1
	C16	GRM39F104Z25PT	Chip	1	1		
	C17	C1608F1E104Z	Chip			1	1
	C17	GRM39F104Z25PT	Chip	1	1		
	C18	C1608F1E104Z	Chip			1	1
	C18	GRM39F104Z25PT	Chip	1	1		
	C19	C1608F1E104Z	Chip			1	1
	C19	GRM39F104Z25PT	Chip	1	1		
	C20	C1608F1E104Z	Chip			1	1
	C20	GRM39F104Z25PT	Chip	1	1		
	C21	C1608F1E104Z	Chip			1	1
	C21	GRM39F104Z25PT	Chip	1	1		
	C22	C1608F1E104Z	Chip			1	1
	C22	GRM39F104Z25PT	Chip	1	1		
	C23	C1608F1E104Z	Chip			1	1
	C23	GRM39F104Z25PT	Chip	1	1		
	C24	C1608F1E104Z	Chip			1	1
	C24	GRM39F104Z25PT	Chip	1	1		
	C25	C1608F1E104Z	Chip			1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	C25	GRM39F104Z25PT	Chip	1	1		
	C26	C1608F1E104Z	Chip			1	1
	C26	GRM39F104Z25PT	Chip	1	1		
	C27	C1608F1E104Z	Chip			1	1
	C27	GRM39F104Z25PT	Chip	1	1		
	C28	C1608F1E104Z	Chip			1	1
	C28	GRM39F104Z25PT	Chip	1	1		
	C29	C1608F1E104Z	Chip			1	1
	C29	GRM39F104Z25PT	Chip	1	1		
	C30	C1608F1E104Z	Chip			1	1
	C31	C1608F1E104Z	Chip			1	1
	C31	GRM39F104Z25PT	Chip	1	1		
	C32	C1608F1E104Z	Chip			1	1
	C32	GRM39F104Z25PT	Chip	1	1		
	C33	C1608F1E104Z	Chip			1	1
	C33	GRM39F104Z25PT	Chip	1	1		
	C34	C1608F1E104Z	Chip			1	1
	C34	GRM39F104Z25PT	Chip	1	1		
	C35	C1608F1E104Z	Chip			1	1
	C35	GRM39F104Z25PT	Chip	1	1		
	C36	C1608F1E104Z	Chip			1	1
	C36	GRM39F104Z25PT	Chip	1	1		
	C37	C1608F1E104Z	Chip			1	1
	C37	GRM39F104Z25PT	Chip	1	1		
	C38	C1608F1E104Z	Chip			1	1
	C38	GRM39F104Z25PT	Chip	1	1		
	C39	C1608F1E104Z	Chip			1	1
	C39	GRM39F104Z25PT	Chip	1	1		
	C40	C1608F1E104Z	Chip			1	1
	C40	GRM39F104Z25PT	Chip	1	1		
	C41	C1608F1E104Z	Chip			1	1
	C41	GRM39F104Z25PT	Chip	1	1		
	C42	C1608F1E104Z	Chip			1	1
	C42	GRM39F104Z25PT	Chip	1	1		
	C43	C1608F1E104Z	Chip			1	1
	C43	GRM39F104Z25PT	Chip	1	1		
	C44	C1608F1E104Z	Chip			1	1
	C44	GRM39F104Z25PT	Chip	1	1		
	C45	C1608F1E104Z	Chip			1	1
	C45	GRM39F104Z25PT	Chip	1	1		
	C46	C1608F1E104Z	Chip			1	1
	C47	C1608F1E104Z	Chip			1	1
	C47	GRM39F104Z25PT	Chip	1	1		
	C48	C1608F1E104Z	Chip			1	1
	C48	GRM39F104Z25PT	Chip	1	1		
	C49	C1608F1E104Z	Chip			1	1
	C49	GRM39F104Z25PT	Chip	1	1		
	C50	C1608F1E104Z	Chip			1	1
	C50	GRM39F104Z25PT	Chip	1	1		
	C51	C1608F1E104Z	Chip			1	1
	C51	GRM39F104Z25PT	Chip	1	1		
	C52	C1608F1E104Z	Chip			1	1
	C52	GRM39F104Z25PT	Chip	1	1		
	C53	C1608F1E104Z	Chip			1	1
	C53	GRM39F104Z25PT	Chip	1	1		
	C54	C1608F1E104Z	Chip			1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	C54	GRM39F104Z25PT	Chip	1	1		
	C55	C1608F1E104Z	Chip			1	1
	C55	GRM39F104Z25PT	Chip	1	1		
	C56	C1608F1E104Z	Chip			1	1
	C56	GRM39F104Z25PT	Chip	1	1		
	C57	C1608F1E104Z	Chip			1	1
	C57	GRM39F104Z25PT	Chip	1	1		
	C58	C1608F1E104Z	Chip			1	1
	C58	GRM39F104Z25PT	Chip	1	1		
	C61	C1608F1E104Z	Chip			1	1
	C61	GRM39F104Z25PT	Chip	1	1		
	C62	C1608F1E104Z	Chip			1	1
	C62	GRM39F104Z25PT	Chip	1	1		
	C63	ECEV1CA100SR	Electrolytic	1	1	1	1
	C64	ECEV1CA100SR	Electrolytic	1	1	1	1
	C65	ECEV1CA100SR	Electrolytic	1	1	1	1
	C66	ECEV1CA100SR	Electrolytic	1	1	1	1
	C67	GRM39F104Z25PT	Chip	1			
	C68	ECEV1CA100SR	Electrolytic	1	1	1	1
	C69	C1608F1E104Z	Chip			1	1
	C69	GRM39F104Z25PT	Chip	1	1		
	C70	C1608F1E104Z	Chip			1	1
	C71	C1608B1H103K	Chip			1	1
	C71	GRM39B103K50PT	Chip	1	1		
	C72	GRM39F104Z25PT	Chip	1			
	C73	ECEV1CA100SR	Electrolytic	1	1	1	1
	C74	ECEV1CA100SR	Electrolytic	1	1	1	1
	C75	C1608H1H220J	Chip			1	1
	C75	GRM39CH220J50PT	Chip	1	1		
	C76	C1608H1H220J	Chip			1	1
	C76	GRM39CH220J50PT	Chip	1	1		
	C77	C1608H1H102J	Chip			1	1
	C77	GRM39B102K50PT	Chip	1	1		
	C78	C1608H1H102J	Chip			1	1
	C78	GRM39B102K50PT	Chip	1	1		
	C79	C1608H1H102J	Chip			1	1
	C79	GRM39B102K50PT	Chip	1	1		
	C80	C1608H1H102J	Chip			1	1
	C80	GRM39B102K50PT	Chip	1	1		
	C81	C1608H1H102J	Chip			1	1
	C81	GRM39B102K50PT	Chip	1	1		
	C82	C1608H1H102J	Chip			1	1
	C82	GRM39B102K50PT	Chip	1	1		
	C83	C1608F1E104Z	Chip				1
	C83	GRM39F104Z25PT	Chip	1	1		
	C84	C1608H1H102J	Chip			1	1
	C84	GRM39B102K50PT	Chip	1	1		
	C85	C1608H1H102J	Chip			1	1
	C85	GRM39B102K50PT	Chip	1	1		
	C86	C1608H1H102J	Chip			1	1
	C86	GRM39B102K50PT	Chip	1	1		
	C87	C1608H1H102J	Chip			1	1
	C87	GRM39B102K50PT	Chip	1	1		
	C88	C1608H1H102J	Chip			1	1
	C88	GRM39B102K50PT	Chip	1	1		
	C89	C1608H1H102J	Chip			1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	C89	GRM39B102K50PT	Chip	1	1		
	C90	C1608H1H102J	Chip			1	1
	C90	GRM39B102K50PT	Chip	1	1		
	C91	C1608H1H102J	Chip			1	1
	C91	GRM39B102K50PT	Chip	1	1		
	C92	C1608H1H102J	Chip			1	1
	C92	GRM39B102K50PT	Chip	1	1		
	C93	C1608H1H102J	Chip			1	1
	C93	GRM39B102K50PT	Chip	1	1		
	C94	C1608H1H102J	Chip			1	1
	C94	GRM39B102K50PT	Chip	1	1		
	C95	C1608H1H102J	Chip			1	1
	C95	GRM39B102K50PT	Chip	1	1		
	C96	C1608H1H102J	Chip			1	1
	C96	GRM39B102K50PT	Chip	1	1		
	C97	C1608H1H102J	Chip			1	1
	C97	GRM39B102K50PT	Chip	1	1		
	C98	C1608H1H102J	Chip			1	1
	C98	GRM39B102K50PT	Chip	1	1		
	C99	C1608H1H102J	Chip			1	1
	C99	GRM39B102K50PT	Chip	1	1		
	C100	C1608H1H102J	Chip			1	1
	C100	GRM39B102K50PT	Chip	1	1		
	C101	C1608H1H102J	Chip			1	1
	C101	GRM39B102K50PT	Chip	1	1		
	C102	C1608F1E104Z	Chip				1
	C102	GRM39F104Z25PT	Chip	1	1		
	C103	C1608H1H102J	Chip			1	1
	C103	GRM39B102K50PT	Chip	1	1		
	C104	ECQV1H155JL3	Polyester Film	1	1	1	1
	C105	GRM39F104Z25PT	Chip	1	1		
	C106	C1608F1E104Z	Chip			1	1
	C106	GRM39F104Z25PT	Chip	1	1		
	C107	C1608F1E104Z	Chip			1	1
	C107	GRM39F104Z25PT	Chip	1	1		
	C108	ECJ2VF1H104Z	Chip	1	1	1	1
	C109	ECJ2VF1H104Z	Chip	1	1	1	1
	C110	ECJ2VF1H104Z	Chip	1	1	1	1
	C111	ECJ2VF1H104Z	Chip	1	1	1	1
	C112	ECJ2VF1H104Z	Chip	1	1	1	1
	C113	ECJ2VF1H104Z	Chip	1	1	1	1
	C114	ECJ1VF1E104Z	Chip			1	1
	C114	GRM39F104Z25PT	Chip	1	1		
	C115	ECJ1VF1E104Z	Chip			1	1
	C115	GRM39F104Z25PT	Chip	1	1		
	C116	GRM39F104Z25PT	Chip	1	1		
	C117	C1608B1H103K	Chip			1	1
	C117	GRM39B103K50PT	Chip	1	1		
	C118	C1608B1H103K	Chip			1	1
	C118	GRM39B103K50PT	Chip	1	1		
	C119	C1608B1H103K	Chip			1	1
	C119	GRM39B103K50PT	Chip	1	1		
	C120	C1608B1H103K	Chip			1	1
	C120	GRM39B103K50PT	Chip	1	1		
	C121	C1608H1H102J	Chip			1	1
	C121	GRM39B102K50PT	Chip	1	1		

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	C122	C1608H1H101J	Chip			1	1
	C122	GRM39CH101J50PT	Chip	1	1		
	C123	ECQV1H104JL3	Polyester Film	1	1	1	1
	C124	ECA1VM101B	Electrolytic	1	1		1
	C125	ECA1VM101B	Electrolytic	1	1	1	1
	C126	ECA1VM101B	Electrolytic	1	1	1	1
	C127	ECA1VM101B	Electrolytic	1	1	1	1
	C128	ECA1VM101B	Electrolytic	1	1	1	1
	C129	ECEV1CA101WP	Electrolytic	1	1	1	1
	C130	ECEV1CA101WP	Electrolytic	1	1	1	1
	C131	ECEV1CA101WP	Electrolytic	1	1	1	1
	C132	ECEV1CA101WP	Electrolytic	1	1	1	1
	C133	ECEV1VA100SS	Electrolytic	1	1	1	1
	C134	ECEV1VA100SS	Electrolytic	1	1	1	1
	C135	GRM39F104Z25PT	Chip	1	1		
	C138	ECJ1VF1E104Z	Chip			1	1
	C138	GRM39F104Z25PT	Chip	1	1		
	C139	C1608F1E104Z	Chip			1	1
	C139	GRM39F104Z25PT	Chip	1	1		
	C140	C1608F1E104Z	Chip			1	1
	C140	GRM39F104Z25PT	Chip	1	1		
	C141	C1608B1H103K	Chip			1	1
	C141	GRM39B103K50PT	Chip	1	1		
	C142	C1608H1H102J	Chip			1	1
	C142	GRM39B102K50PT	Chip	1	1		
	C143	C1608H1H102J	Chip			1	1
	C143	GRM39B102K50PT	Chip	1	1		
	C144	C1608H1H102J	Chip			1	1
	C144	GRM39B102K50PT	Chip	1	1		
	C145	C1608H1H102J	Chip			1	1
	C145	GRM39B102K50PT	Chip	1	1		
	C146	C1608H1H102J	Chip			1	1
	C146	GRM39B102K50PT	Chip	1	1		
	C147	GRM39B102K50PT	Chip	1			
	C148	C1608F1E104Z	Chip			1	1
	C148	GRM39F104Z25PT	Chip	1	1		
	C149	C1608B1H103K	Chip			1	1
	C149	GRM39B103K50PT	Chip	1	1		
	C150	C1608F1E104Z	Chip			1	1
	C150	GRM39F104Z25PT	Chip	1	1		
	C151	C1608F1E104Z	Chip			1	1
	C151	GRM39F104Z25PT	Chip	1	1		
	C152	C1608F1E104Z	Chip			1	1
	C152	GRM39F104Z25PT	Chip	1	1		
	C153	C1608F1E104Z	Chip			1	1
	C153	GRM39F104Z25PT	Chip	1	1		
	C154	C1608F1E104Z	Chip			1	1
	C154	GRM39F104Z25PT	Chip	1	1		
	C155	C1608F1E104Z	Chip			1	1
	C155	GRM39F104Z25PT	Chip	1	1		
	C156	C1608F1E104Z	Chip			1	1
	C156	GRM39F104Z25PT	Chip	1	1		
	C157	C1608F1E104Z	Chip			1	1
	C157	GRM39F104Z25PT	Chip	1	1		
	C158	C1608F1E104Z	Chip			1	1
	C158	GRM39F104Z25PT	Chip	1	1		

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	C159	C1608F1E104Z	Chip			1	1
	C159	GRM39F104Z25PT	Chip	1	1		
	C160	C1608F1E104Z	Chip			1	1
	C160	GRM39F104Z25PT	Chip	1	1		
	C161	C1608F1E104Z	Chip			1	1
	C161	GRM39F104Z25PT	Chip	1	1		
	C162	C1608F1E104Z	Chip			1	1
	C162	GRM39F104Z25PT	Chip	1	1		
	C163	C1608F1E104Z	Chip			1	1
	C163	GRM39F104Z25PT	Chip	1	1		
	C164	C1608F1E104Z	Chip			1	1
	C164	GRM39F104Z25PT	Chip	1	1		
	C165	C1608F1E104Z	Chip			1	1
	C165	GRM39F104Z25PT	Chip	1	1		
	C166	C1608F1E104Z	Chip			1	1
	C166	GRM39F104Z25PT	Chip	1	1		
	C167	C1608F1E104Z	Chip			1	1
	C167	GRM39F104Z25PT	Chip	1	1		
	C168	C1608F1E104Z	Chip			1	1
	C168	GRM39F104Z25PT	Chip	1	1		
	C169	C1608F1E104Z	Chip			1	1
	C169	GRM39F104Z25PT	Chip	1	1		
	C170	C1608F1E104Z	Chip			1	1
	C170	GRM39F104Z25PT	Chip	1	1		
	C171	C1608F1E104Z	Chip			1	1
	C171	GRM39F104Z25PT	Chip	1	1		
	C172	C1608F1E104Z	Chip			1	1
	C172	GRM39F104Z25PT	Chip	1	1		
	C173	C1608F1E104Z	Chip			1	1
	C173	GRM39F104Z25PT	Chip	1	1		
	C174	C1608F1E104Z	Chip			1	1
	C174	GRM39F104Z25PT	Chip	1	1		
	C175	C1608F1E104Z	Chip			1	1
	C175	GRM39F104Z25PT	Chip	1	1		
	C176	C1608F1E104Z	Chip			1	1
	C176	GRM39F104Z25PT	Chip	1	1		
	C177	C1608F1E104Z	Chip			1	1
	C177	GRM39F104Z25PT	Chip	1	1		
	C178	C1608F1E104Z	Chip			1	1
	C178	GRM39F104Z25PT	Chip	1	1		
	C179	C1608F1E104Z	Chip			1	1
	C179	GRM39F104Z25PT	Chip	1	1		
	C180	C1608F1E104Z	Chip			1	1
	C180	GRM39F104Z25PT	Chip	1	1		
	C181	C1608F1E104Z	Chip			1	1
	C181	GRM39F104Z25PT	Chip	1	1		
	C182	C1608F1E104Z	Chip			1	1
	C182	GRM39F104Z25PT	Chip	1	1		
	C183	C1608F1E104Z	Chip			1	1
	C183	GRM39F104Z25PT	Chip	1	1		
	C184	C1608F1E104Z	Chip			1	1
	C184	GRM39F104Z25PT	Chip	1	1		
	C185	C1608F1E104Z	Chip			1	1
	C185	GRM39F104Z25PT	Chip	1	1		
	C186	C1608F1E104Z	Chip			1	1
	C186	GRM39F104Z25PT	Chip	1	1		

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	C187	C1608F1E104Z	Chip			1	1
	C187	GRM39F104Z25PT	Chip	1	1		
	C188	C1608F1E104Z	Chip			1	1
	C188	GRM39F104Z25PT	Chip	1	1		
	C189	C1608F1E104Z	Chip			1	1
	C189	GRM39F104Z25PT	Chip	1	1		
	C190	C1608F1E104Z	Chip			1	1
	C190	GRM39F104Z25PT	Chip	1	1		
	C191	C1608F1E104Z	Chip			1	1
	C191	GRM39F104Z25PT	Chip	1	1		
	C192	C1608F1E104Z	Chip			1	
	C192	GRM39F104Z25PT	Chip	1	1		
	C193	C1608F1E104Z	Chip			1	
	C193	GRM39F104Z25PT	Chip	1	1		
	C194	C1608F1E104Z	Chip			1	
	C194	GRM39F104Z25PT	Chip	1	1		
	C195	C1608F1E104Z	Chip			1	
	C195	GRM39F104Z25PT	Chip	1	1		
	C196	C1608F1E104Z	Chip			1	
	C196	GRM39F104Z25PT	Chip	1	1		
	C197	C1608F1E104Z	Chip			1	
	C197	GRM39F104Z25PT	Chip	1	1		
	C198	C1608F1E104Z	Chip			1	
	C198	GRM39F104Z25PT	Chip	1	1		
	C199	C1608F1E104Z	Chip			1	
	C199	GRM39F104Z25PT	Chip	1	1		
	C200	C1608F1E104Z	Chip			1	
	C200	GRM39F104Z25PT	Chip	1	1		
	C201	C1608F1E104Z	Chip			1	
	C201	GRM39F104Z25PT	Chip	1	1		
	C202	ECEV1CA100SR	Electrolytic	1	1	1	1
	C203	C1608H1H102J	Chip			1	1
	C203	GRM39B102K50PT	Chip	1	1		
	C204	C1608H1H102J	Chip			1	1
	C204	GRM39B102K50PT	Chip	1	1		
	C205	C1608H1H102J	Chip			1	1
	C205	GRM39B102K50PT	Chip	1	1		
	C206	C1608H1H102J	Chip			1	1
	C206	GRM39B102K50PT	Chip	1	1		
	C207	C1608H1H102J	Chip			1	1
	C207	GRM39B102K50PT	Chip	1	1		
	C208	C1608H1H102J	Chip			1	1
	C208	GRM39B102K50PT	Chip	1	1		
	C209	C1608F1E104Z	Chip			1	1
	C209	GRM39F104Z25PT	Chip	1	1		
	C210	C1608H1H102J	Chip			1	1
	C210	GRM39B102K50PT	Chip	1	1		
	C211	C1608H1H102J	Chip			1	1
	C211	GRM39B102K50PT	Chip	1	1		
	C212	C1608H1H102J	Chip			1	1
	C212	GRM39B102K50PT	Chip	1	1		
	C213	C1608H1H102J	Chip			1	1
	C213	GRM39B102K50PT	Chip	1	1		
	C214	C1608H1H102J	Chip			1	1
	C214	GRM39B102K50PT	Chip	1	1		
	C215	C1608H1H102J	Chip				1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	C215	GRM39B102K50PT	Chip	1	1		
	C216	C1608H1H102J	Chip				1
	C216	GRM39B102K50PT	Chip	1	1		
	C217	C1608H1H102J	Chip			1	1
	C217	GRM39B102K50PT	Chip	1	1		
	C218	C1608H1H102J	Chip			1	1
	C218	GRM39B102K50PT	Chip	1	1		
	C219	GRM39CH101J50PT	Chip	1			
	C220	C1608F1E104Z	Chip			1	1
	C220	GRM39F104Z25PT	Chip	1	1		
	C221	C1608H1H102J	Chip			1	1
	C221	GRM39B102K50PT	Chip	1	1		
	C222	ECQV1H224JL3	Polyester Film	1	1	1	1
	C223	ECJ2VF1H104Z	Chip	1	1		1
	C224	ECJ2VF1H104Z	Chip	1	1		
	C225	C1608B1H103K	Chip			1	1
	C225	GRM39B103K50PT	Chip	1	1		
	C226	ECA1VM101B	Electrolytic	1	1	1	1
	C227	ECEV1CA100SR	Electrolytic	1	1	1	1
	C228	C1608H1H100D	Chip			1	1
	C228	GRM39CH100D50PT	Chip		1		
	C228	GRM39CH180J50PT	Chip	1			
	C229	C1608H1H100D	Chip			1	1
	C229	GRM39CH100D50PT	Chip		1		
	C229	GRM39CH180J50PT	Chip	1			
	C230	C1608H1H102J	Chip			1	
	C230	GRM39B102K50PT	Chip	1	1		
	C231	C1608H1H102J	Chip			1	1
	C231	GRM39B102K50PT	Chip	1	1		
	C232	C1608F1E104Z	Chip			1	1
	C232	GRM39F104Z25PT	Chip	1	1		
	C233	C1608F1E104Z	Chip			1	1
	C233	GRM39F104Z25PT	Chip	1	1		
	C234	C1608B1H103K	Chip			1	1
	C234	GRM39B103K50PT	Chip	1	1		
	C235	C1608B1H103K	Chip			1	1
	C235	GRM39B103K50PT	Chip	1	1		
	C236	C1608B1H103K	Chip			1	1
	C236	GRM39B103K50PT	Chip	1	1		
	C237	C1608F1E104Z	Chip			1	
	C237	GRM39F104Z25PT	Chip	1	1		
	C238	C1608F1E104Z	Chip			1	1
	C238	GRM39F104Z25PT	Chip	1	1		
	C239	C1608F1E104Z	Chip			1	1
	C239	GRM39F104Z25PT	Chip	1	1		
	C240	GRM39F104Z25PT	Chip	1	1		
	C241	C1608B1H103K	Chip				1
	C241	GRM39B103K50PT	Chip	1	1		
	C242	C1608B1H103K	Chip				1
	C242	GRM39B103K50PT	Chip	1	1		
	C243	C1608H1H101J	Chip			1	1
	C243	GRM39CH101J50PT	Chip	1	1		
	C245	C1608F1E104Z	Chip			1	1
	C245	GRM39F104Z25PT	Chip	1	1		
	C246	ECEV1CA100SR	Electrolytic	1	1	1	1
	C247	ECEV1CA100SR	Electrolytic	1	1	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	C248	GRM39F104Z25PT	Chip	1			
	C249	ECEV1CA100SR	Electrolytic	1	1	1	1
	C250	ECEV1CA100SR	Electrolytic	1	1	1	1
	C251	C1608H1H102J	Chip			1	1
	C251	GRM39B102K50PT	Chip	1	1		
	C252	C1608F1E104Z	Chip			1	1
	C252	GRM39F104Z25PT	Chip		1		
	C253	ECEV1CA100SR	Electrolytic	1	1	1	1
	C254	ECEV1CA100SR	Electrolytic	1	1	1	1
	C255	ECEV1CA100SR	Electrolytic	1	1	1	
	C256	ECEV1CA100SR	Electrolytic	1	1	1	1
	C257	ECJ2VF1H104Z	Chip	1			
	C258	C1608F1E104Z	Chip			1	1
	C258	GRM39F104Z25PT	Chip	1	1		
	C259	C1608F1E104Z	Chip			1	
	C259	GRM39F104Z25PT	Chip	1	1		
	C260	C1608H1H102J	Chip			1	1
	C260	GRM39B102K50PT	Chip	1	1		
	C261	C1608F1E104Z	Chip			1	1
	C262	ECJ1VF1C104Z	Chip			1	1
	C263	ECJ1VF1C104Z	Chip			1	1
	C264	ECJ1VF1C104Z	Chip			1	1
	C265	ECJ1VF1C104Z	Chip			1	1
DIODES							
	D1	MA152K-(TX)	Chip	1	1	1	1
	D2	MA152K-(TX)	Chip	1	1	1	1
	D3	MA152K-(TX)	Chip	1	1	1	1
	D4	MA717TX	Chip	1	1	1	1
	D5	MA199TX	Chip	1	1	1	1
	D6	MA199TX	Chip	1	1	1	1
	D7	MA152K-(TX)	Chip	1	1	1	
	D8	MA199TX	Chip	1	1	1	1
	D9	MA199TX	Chip	1	1	1	1
	D10	U1DL44ATE12R	Chip	1	1	1	1
	D11	U1DL44ATE12R	Chip	1	1	1	1
	D12	U1DL44ATE12R	Chip	1	1	1	1
	D13	U1DL44ATE12R	Chip	1	1	1	1
	D14	U1DL44ATE12R	Chip	1	1		1
	D15	U1DL44ATE12R	Chip	1	1		1
	D16	U1DL44ATE12R	Chip	1	1		1
	D17	U1DL44ATE12R	Chip	1	1		1
	D18	MA199TX	Chip	1	1		1
	D19	MA199TX	Chip	1	1		1
	D20	MA199TX	Chip	1	1		1
	D21	MA199TX	Chip	1	1		1
	D22	MA199TX	Chip	1			
	D23	MA199TX	Chip	1			
	D24	MA199TX	Chip	1			
	D25	MA152K-(TX)	Chip	1			
	D26	MA152K-(TX)	Chip	1	1	1	1
	D30	MA152K-(TX)	Chip	1	1	1	1
DIODES							
	DA1	MA153A-(TX)	Diode Array	1	1	1	1
	DA2	MA128TX	Diode Array	1	1	1	1
	DA3	MA127TX	Diode Array	1	1	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
			DIODES				
	ZD1	MA3051MTX	Zener	1	1	1	1
	ZD2	U1ZB51TE12R	Zener	1	1	1	1
	ZD3	U1ZB51TE12R	Zener	1	1		1
			ICS				
	IC1	HD64F7045F28	SH Micro Computer			1	1
	IC1	HD7041AF76F	CPU	1	1		
	IC2	LHF16K57	Flash Memory	1	1	1	1
	IC3	LC35256DM70	SRAM	1	1	1	1
	IC4	LC35256DM70	SRAM	1	1	1	1
	IC5	MB3773TR	Reset IC	1	1	1	1
	IC6	TC7WH157FKEL	CMOS	1	1	1	1
	IC7	FFPAV0009	Gate Array	1	1	1	1
	IC8	M62356P	D/A Convertor	1	1	1	1
	IC9	BA10324FT2	OP Amp	1	1	1	1
	IC10	T74VHC244FEL	TTL	1	1	1	1
	IC11	TC74VHC14FEL	CMOS	1	1	1	1
	IC12	M66236FPT2	D/A Convertor	1	1	1	1
	IC13	TC74VHC14FEL	CMOS	1	1	1	1
	IC14	BA10393FT2	OP Amp	1	1	1	1
	IC15	SLA7032M	Motor Driver	1	1		1
	IC16	TC7WH34FKEL	CMOS	1	1	1	1
	IC19	SLA7032M	Motor Driver	1	1	1	1
	IC20	TC35071F	A/D Covertor	1	1	1	1
	IC21	TC35071F	A/D Covertor	1	1	1	1
	IC23	BA10358FT2	OP Amp	1	1	1	1
	IC24	TMP86CH06U	CPU	1	1	1	1
	IC25	TC74VHC14FEL	CMOS	1	1	1	1
	IC26	MB3771PFEF	Reset IC	1	1	1	1
	IC27	M2V64S40BTP8	SDRAM	1	1	1	1
	IC28	M2V64S40BTP8	SDRAM	1	1	1	1
	IC29	T55V8128BF12	SRAM	1	1	1	1
	IC30	FFPAV0010	Gate Array	1	1	1	1
	IC31	TC74VHC08FEL	CMOS	1	1	1	1
	IC32	PM22/33	Codex (Compression/Extension)	1	1	1	1
	IC33	74F1071	Diode Array	1	1	1	
	IC34	M66428FP	Gate Array	1	1	1	
	IC35	74VHC161284	IEE1284 Transceiver	1	1	1	
	IC36	74VHCT244AFE	COMOS	1	1	1	
	IC37	TC7WHU04FKEL	CMOS	1	1	1	
	IC38	TC7WH08FKEL	CMOS	1	1	1	1
	IC39	TC7WH14FKEL	CMOS	1	1	1	1
	IC40	TC74VHC74FEL	CMOS	1	1	1	1
	IC41	LHF16K57	Flash Memory	1			
	IC42	TC7WH08FKEL	CMOS	1	1	1	
	IC43	TC7SH04FU(TE85L	CMOS	1	1	1	1
			TRANSISTORS				
	DT1	DTC114EKA146	Chip Digital	1	1	1	1
	DT2	DTC114EKA146	Chip Digital	1	1		1
	DT3	DTC114EKA146	Chip Digital	1	1	1	1
	DT4	DTC114EKA146	Chip Digital	1	1	1	1
	DT5	DTC114EKA146	Chip Digital	1	1	1	1
	DT6	DTC114EKA146	Chip Digital	1	1	1	1
	DT7	DTC114EKA146	Chip Digital	1	1	1	1
	DT8	DTC114EKA146	Chip Digital	1	1	1	1
	DT9	DTC114EKA146	Chip Digital	1	1	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	DT10	DTC114EKA146	Chip Digital	1	1	1	1
	DT11	DTC114EKA146	Chip Digital	1	1	1	1
	DT12	DTC114EKA146	Chip Digital	1	1	1	1
	DT13	DTB114EKT146	Chip Digital	1			
	DT14	DTC114EKA146	Chip Digital	1	1		1
	DT15	DTC114EKA146	Chip Digital	1	1	1	1
	DT16	DTC114EKA146	Chip Digital	1	1	1	
	DT17	DTC114EKA146	Chip Digital	1	1	1	
	DT18	DTC114EKA146	Chip Digital	1	1	1	
	DT19	DTC114EKA146	Chip Digital	1	1	1	1
	DT20	DTB114EKT146	Chip Digital	1	1	1	1
	DT21	DTC143EKA146	Chip Digital	1	1	1	1
	DT22	DTC143EKA146	Chip Digital	1	1	1	1
	DT23	DTC143EKA146	Chip Digital	1	1	1	1
	DT24	DTC143EKA146	Chip Digital	1	1	1	1
	DT25	DTC143EKA146	Chip Digital	1	1	1	1
	DT26	DTC143EKA146	Chip Digital	1	1	1	1
	DT27	DTC143EKA146	Chip Digital	1	1	1	1
	DT28	DTA114EKA146	Chip Digital	1	1	1	1
	DT29	DTC114EKA146	Chip Digital	1	1	1	1
	DT30	DTC114EKA146	Chip Digital	1	1	1	1
	DT31	DTC114EKA146	Chip Digital	1	1	1	1
	DT32	DTC114EKA146	Chip Digital	1	1	1	1
	DT33	DTC114EKA146	Chip Digital	1	1	1	1
	DT34	DTC114EKA146	Chip Digital	1	1	1	1
	DT35	DTC114EKA146	Chip Digital	1	1	1	1
	DT36	DTC114EKA146	Chip Digital	1	1	1	1
	DT37	DTC114EKA146	Chip Digital	1	1	1	1
	DT38	DTC114EKA146	Chip Digital	1	1		1
	DT39	DTC114EKA146	Chip Digital	1	1		1
	DT40	DTC114EKA146	Chip Digital	1	1		1
	DT41	DTC114EKA146	Chip Digital	1	1		1
	DT42	DTC114EKA146	Chip Digital	1			
	DT43	DTC114EKA146	Chip Digital	1			
	DT44	DTC114EKA146	Chip Digital	1			
	DT45	DTC114EKA146	Chip Digital	1	1	1	1
	DT46	DTC114EKA146	Chip Digital	1	1	1	1
	DT47	DTC114EKA146	Chip Digital	1			
	DT48	DTC143EKA146	Chip Digital	1	1	1	1
	DT49	DTA114EKA146	Chip Digital		1	1	1
	DT49	DTA114TKA146	Chip Digital	1			
	DT50	DTC114EKA146	Chip Digital		1	1	1
	DT51	DTC114EKA146	Chip Digital		1	1	
	DT51	DTC115TKA146	Chip Digital	1			
TRANSISTORS							
	Q1	2SB709ATX	Transistor	1	1	1	1
	Q2	2SC2412KT146	Transistor	1	1	1	1
	Q3	2SC2412KT146	Transistor	1	1	1	1
	Q4	2SC2412KT146	Transistor	1	1	1	1
	Q5	2SA1890TX	Transistor	1	1	1	1
	Q6	2SD2185-(TX)	Transistor	1	1	1	1
	Q7	2SC2412KT146	Transistor	1	1	1	1
	Q8	2SD2185-(TX)	Transistor	1	1	1	1
	Q9	2SD2185-(TX)	Transistor	1	1	1	1
	Q10	2SD2185-(TX)	Transistor	1	1	1	1
	Q11	2SD2185-(TX)	Transistor	1	1		1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	Q12	2SD2185-(TX)	Transistor	1	1		1
	Q13	2SD2185-(TX)	Transistor	1	1		1
	Q14	2SD2185-(TX)	Transistor	1	1		1
	Q15	2SD2185-(TX)	Transistor	1			
	Q16	2SD2185-(TX)	Transistor	1			
	Q17	2SD2185-(TX)	Transistor	1			
	Q18	2SA1037AK146	Transistor	1			
			RESISTORS				
	R1	ERJ3GEYJ103V	Chip	1	1	1	1
	R2	ERJ3GEYJ103V	Chip	1	1	1	1
	R3	ERJ3GEYJ103V	Chip	1	1	1	1
	R4	ERJ3GEYJ103V	Chip	1	1	1	1
	R5	ERJ3GEYJ103V	Chip	1			
	R6	ERJ3GEYJ201V	Chip	1	1	1	1
	R7	ERJ3GEYJ201V	Chip	1	1	1	1
	R8	ERJ3GEYJ102V	Chip	1	1	1	1
	R9	ERJ3GEYJ103V	Chip	1		1	
	R10	ERJ3GEYJ152V	Chip	1	1	1	1
	R11	ERJ3GEYJ152V	Chip	1	1	1	1
	R12	ERJ3GEYJ152V	Chip	1	1	1	1
	R13	ERJ3GEYJ103V	Chip	1	1	1	1
	R14	ERJ3GEYJ152V	Chip	1	1	1	1
	R15	ERJ3GEYJ152V	Chip	1	1	1	1
	R16	ERJ3GEYJ152V	Chip	1	1	1	1
	R17	ERJ3GEYJ152V	Chip	1	1	1	1
	R18	ERJ3GEYJ152V	Chip	1	1	1	1
	R19	ERJ3GEYJ152V	Chip	1	1	1	1
	R20	ERJ3GEYJ152V	Chip	1	1	1	1
	R21	ERJ3GEYJ152V	Chip	1	1	1	1
	R22	ERJ3GEYJ152V	Chip	1	1	1	1
	R23	ERJ3GEYJ152V	Chip	1	1	1	1
	R24	ERJ3GEYJ152V	Chip	1	1	1	1
	R25	ERJ3GEYJ103V	Chip		1	1	1
	R26	ERJ3GEYJ152V	Chip	1	1	1	1
	R27	ERJ3GEYJ152V	Chip	1	1	1	1
	R28	ERJ3GEYJ152V	Chip	1	1	1	1
	R29	ERJ3GEYJ152V	Chip	1	1	1	1
	R30	ERJ3GEYJ103V	Chip		1		1
	R31	ERJ3GEYJ152V	Chip	1	1	1	1
	R32	ERJ3GEYJ102V	Chip	1	1	1	1
	R33	ERJ3GEYJ152V	Chip	1	1	1	1
	R35	ERJ3GEYJ103V	Chip	1			1
	R36	ERJ3GEYJ102V	Chip	1	1	1	1
	R37	ERJ3GEYJ102V	Chip	1	1	1	1
	R38	ERJ3GEYJ472V	Chip	1	1	1	1
	R39	ERJ3GEYJ472V	Chip	1	1	1	1
	R40	ERJ3GEYJ102V	Chip	1	1	1	1
	R41	ERJ3GEYJ103V	Chip	1	1	1	1
	R42	ERJ3GEYJ472V	Chip	1	1	1	1
	R43	ERJ3GEYJ472V	Chip	1	1	1	1
	R44	ERJ3GEYJ683V	Chip	1	1	1	1
	R45	ERJ3GEYJ683V	Chip	1	1	1	1
	R46	ERJ3GEYJ683V	Chip	1	1	1	1
	R47	ERJ3GEYJ302V	Chip	1	1	1	1
	R48	ERJ3GEYJ103V	Chip	1	1	1	1
	R49	ERJ3GEYJ103V	Chip	1	1	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	R50	ERJ3GEYJ103V	Chip	1	1	1	1
	R51	ERJ3GEYJ103V	Chip	1	1	1	1
	R52	ERJ3GEYJ103V	Chip	1	1	1	1
	R53	ERJ3GEYJ103V	Chip	1	1	1	1
	R54	ERJ3GEYJ392V	Chip	1	1	1	1
	R57	ERJ3GEYJ103V	Chip		1	1	
	R58	ERJ3GEYJ103V	Chip	1	1	1	1
	R59	ERJ3GEYJ103V	Chip	1	1		1
	R60	ERJ3GEYJ103V	Chip	1	1		1
	R61	ERJ3GEYJ103V	Chip	1	1	1	1
	R62	ERJ3GEYJ103V	Chip	1	1	1	1
	R63	ERJ3GEYJ103V	Chip	1	1	1	1
	R64	ERJ3GEYJ103V	Chip	1	1	1	1
	R65	ERJ3GEYJ103V	Chip	1	1	1	1
	R66	ERJ3GEYJ103V	Chip	1	1	1	1
	R67	ERJ3GEYJ103V	Chip	1	1	1	1
	R68	ERJ3GEYJ103V	Chip	1	1	1	1
	R69	ERJ3GEYJ103V	Chip	1	1	1	1
	R70	ERJ3GEYJ103V	Chip	1	1	1	1
	R71	ERJ3GEYJ103V	Chip	1	1	1	1
	R72	ERJ3GEYJ103V	Chip	1	1		1
	R73	ERJ3GEYJ103V	Chip	1	1		1
	R74	ERJ3GEYJ122V	Chip	1	1	1	1
	R75	ERJ3GEY0R00V	Chip	1	1	1	1
	R76	ERJ3GEY0R00V	Chip	1	1	1	1
	R77	ERJ3GEY0R00V	Chip	1	1	1	1
	R78	ERJ3GEYJ103V	Chip	1	1	1	1
	R79	ERJ3GEY0R00V	Chip	1	1	1	1
	R81	ERJ3GEYJ103V	Chip	1	1	1	1
	R82	ERJ3GEY0R00V	Chip	1	1	1	1
	R84	ERJ3EKF7501V	Chip	1	1	1	1
	R85	ERJ3EKF8201V	Chip	1	1	1	1
	R86	ERJ3EKF8201V	Chip	1	1	1	1
	R87	ERJ3EKF3901V	Chip	1	1	1	1
	R88	ERJ3GEYJ334V	Chip	1	1	1	1
	R89	ERJ3GEYJ334V	Chip	1	1	1	1
	R90	ERJ3GEYJ101V	Chip	1	1	1	1
	R91	ERJ3GEYJ103V	Chip	1	1	1	1
	R92	ERJ3GEYJ101V	Chip	1	1	1	1
	R93	ERJ3GEYJ101V	Chip	1	1	1	1
	R94	ERJ3GEYJ101V	Chip	1	1	1	1
	R95	ERJ3GEYJ101V	Chip	1	1	1	1
	R96	ERJ3GEYJ101V	Chip	1	1	1	1
	R97	ERJ3GEYJ101V	Chip	1	1	1	1
	R98	ERJ3GEYJ101V	Chip	1	1	1	1
	R99	ERJ3GEYJ101V	Chip	1	1	1	1
	R100	ERJ3GEYJ101V	Chip	1	1	1	1
	R101	ERJ3GEYJ101V	Chip	1	1	1	1
	R102	ERJ3GEYJ101V	Chip	1	1	1	1
	R103	ERJ3GEYJ102V	Chip	1			
	R104	ERJ3GEYJ101V	Chip	1	1	1	1
	R105	ERJ3GEYJ101V	Chip	1	1	1	1
	R106	ERJ3GEYJ101V	Chip	1	1	1	1
	R107	ERJ3GEYJ101V	Chip	1	1	1	1
	R108	ERJ3GEYJ103V	Chip	1	1	1	1
	R109	ERJ3GEYJ101V	Chip	1	1	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	R110	ERJ3EKF1500V	Chip	1	1	1	1
	R111	ERJ3GEYJ103V	Chip	1	1	1	1
	R114	ERX2SJ1R0E	Metal Oxide	1	1	1	1
	R115	ERX2SJ1R0E	Metal Oxide	1	1	1	1
	R116	ERJ3EKF3900V	Chip	1	1	1	1
	R117	ERJ3GEYJ103V	Chip	1	1	1	1
	R118	ERJ6GEYJ472V	Chip	1	1	1	1
	R121	ERJ3GEYJ103V	Chip	1	1	1	1
	R122	ERJ3GEYJ152V	Chip	1	1	1	1
	R123	ERJ3GEYJ152V	Chip	1	1	1	1
	R124	ERJ3GEYJ103V	Chip	1	1	1	1
	R125	ERJ3GEYJ103V	Chip	1	1	1	1
	R126	ERJ3GEYJ101V	Chip	1	1	1	1
	R127	ERJ3GEYJ101V	Chip	1	1	1	1
	R128	ERJ3GEYJ101V	Chip	1	1	1	1
	R129	ERJ3GEYJ103V	Chip	1	1	1	1
	R130	ERJ3GEYJ102V	Chip	1	1	1	1
	R131	ERJ3GEYJ103V	Chip	1	1	1	1
	R132	ERJ3GEYJ100V	Chip	1	1	1	1
	R133	ERJ3GEYJ100V	Chip	1	1	1	1
	R134	ERJ3GEYJ100V	Chip	1	1	1	1
	R135	ERJ3GEYJ100V	Chip	1	1	1	1
	R136	ERJ3GEYJ100V	Chip	1	1	1	1
	R138	ERJ3GEYJ103V	Chip	1	1	1	1
	R139	ERJ3GEYJ102V	Chip	1	1	1	1
	R140	ERJ3GEYJ102V	Chip	1	1	1	1
	R141	ERJ3GEYJ103V	Chip	1	1	1	1
	R142	ERJ3GEYJ103V	Chip	1	1	1	1
	R144	ERJ3GEYJ152V	Chip	1	1	1	1
	R145	ERJ3GEYJ152V	Chip	1	1	1	1
	R146	ERJ3GEYJ103V	Chip	1	1	1	1
	R147	ERJ3GEYJ152V	Chip	1	1	1	1
	R148	ERJ3GEYJ152V	Chip	1	1	1	1
	R149	ERJ3GEYJ152V	Chip	1	1	1	1
	R150	ERJ3GEYJ152V	Chip	1	1	1	1
	R151	ERJ3GEYJ152V	Chip	1	1	1	1
	R153	ERJ3GEY0R00V	Chip	1	1	1	1
	R154	ERJ3GEY0R00V	Chip	1	1	1	1
	R155	ERJ3GEY0R00V	Chip			1	1
	R156	ERJ3GEY0R00V	Chip			1	1
	R157	ERJ3GEY0R00V	Chip	1	1	1	1
	R158	ERJ3GEY0R00V	Chip			1	1
	R159	ERJ3GEY0R00V	Chip			1	1
	R166	ERJ3GEYJ472V	Chip	1	1	1	1
	R167	ERJ3GEYJ101V	Chip	1	1	1	1
	R168	ERJ3GEYJ101V	Chip	1	1	1	1
	R170	ERJ3GEYJ101V	Chip	1	1	1	1
	R171	ERJ3GEYJ101V	Chip	1	1	1	1
	R172	ERJ3GEYJ101V	Chip	1	1	1	1
	R173	ERJ3GEYJ101V	Chip	1	1	1	1
	R174	ERJ3GEYJ101V	Chip	1	1	1	1
	R175	ERX2SJ1R0E	Metal Oxide	1	1		1
	R176	ERX2SJ1R0E	Metal Oxide	1	1		1
	R177	ERJ3EKF3900V	Chip	1	1		1
	R178	ERJ3EKF1000V	Chip	1	1		1
	R179	ERJ3EKF1000V	Chip	1	1		1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	R180	ERJ3GEYJ103V	Chip	1			
	R181	ERJ3GEYJ472V	Chip	1	1	1	1
	R182	ERJ3GEY0R00V	Chip	1	1	1	1
	R183	ERJ3GEYJ472V	Chip	1	1	1	1
	R184	ERJ3GEYJ103V	Chip		1	1	1
	R185	ERJ3GEYJ103V	Chip	1	1	1	1
	R186	ERJ3GEYJ472V	Chip	1	1	1	1
	R187	ERJ3GEYJ472V	Chip	1	1	1	1
	R188	ERJ3GEYJ472V	Chip	1	1	1	1
	R189	ERJ3GEYJ103V	Chip		1	1	1
	R190	ERJ3GEYJ472V	Chip	1	1	1	1
	R191	ERJ3GEYJ101V	Chip	1	1	1	1
	R192	ERJ3GEY0R00V	Chip	1			
	R195	ERJ3GEYJ101V	Chip	1	1	1	1
	R196	ERJ3GEYJ152V	Chip	1	1	1	
	R199	ERJ3GEYJ105V	Chip	1	1	1	
	R200	ERJ3GEYJ103V	Chip	1	1	1	1
	R201	ERJ3GEYJ223V	Chip	1	1	1	1
	R202	ERJ3GEYJ102V	Chip	1	1	1	1
	R203	ERJ3GEYJ102V	Chip	1	1	1	
	R204	ERJ3GEYJ152V	Chip	1			
	R205	ERJ3GEYJ334V	Chip	1	1	1	1
	R206	ERJ3GEYJ334V	Chip	1	1	1	1
	R207	ERJ3GEYJ103V	Chip	1	1	1	1
	R212	ERJ3EKF1000V	Chip	1	1	1	1
	R213	ERJ3GEYJ103V	Chip	1	1	1	1
	R214	ERJ3GEYJ103V	Chip	1	1	1	
	R215	ERJ3GEYJ103V	Chip	1	1	1	
	R216	ERJ3GEYJ103V	Chip	1	1	1	
	R217	ERJ3GEYJ103V	Chip	1	1	1	
	R218	ERJ3GEYJ683V	Chip	1	1	1	
	R219	ERJ3GEYJ103V	Chip	1	1	1	
	R220	ERJ3GEYJ103V	Chip	1	1	1	
	R221	ERJ3GEYJ103V	Chip	1	1	1	
	R222	ERJ3GEYJ103V	Chip	1	1	1	
	R223	ERJ3GEYJ103V	Chip	1	1	1	
	R224	ERJ3EKF6203V	Chip	1	1	1	1
	R225	ERJ3GEYJ220V	Chip	1	1	1	1
	R226	ERJ3GEYJ220V	Chip	1	1	1	1
	R227	ERJ3GEYJ220V	Chip	1	1	1	1
	R228	ERJ3GEYJ220V	Chip	1	1	1	1
	R229	ERJ3GEYJ220V	Chip	1	1	1	1
	R230	ERJ3GEYJ220V	Chip	1	1	1	1
	R231	ERJ3GEYJ220V	Chip	1	1	1	1
	R232	ERJ3GEYJ220V	Chip	1	1	1	1
	R233	ERJ3GEYJ220V	Chip	1	1	1	1
	R234	ERJ3GEYJ220V	Chip	1	1	1	1
	R235	ERJ3GEYJ220V	Chip	1	1	1	1
	R236	ERJ3GEYJ220V	Chip	1	1	1	1
	R237	ERJ3GEYJ220V	Chip	1	1	1	1
	R238	ERJ3GEYJ220V	Chip	1	1	1	1
	R239	ERJ3GEYJ220V	Chip	1	1	1	1
	R240	ERJ3GEYJ220V	Chip	1	1	1	1
	R241	ERJ3GEYJ220V	Chip	1	1	1	1
	R242	ERJ3GEYJ220V	Chip	1	1	1	1
	R243	ERJ3GEYJ220V	Chip	1	1	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	R244	ERJ3GEYJ220V	Chip	1	1	1	1
	R245	ERJ3GEYJ103V	Chip	1	1	1	1
	R246	ERJ3GEYJ220V	Chip	1	1	1	1
	R247	ERJ3GEYJ220V	Chip	1	1	1	1
	R248	ERJ3GEYJ220V	Chip	1	1	1	1
	R249	ERJ3GEYJ220V	Chip	1	1	1	1
	R250	ERJ3GEYJ220V	Chip	1	1	1	1
	R251	ERJ3GEY0R00V	Chip	1	1	1	
	R252	ERJ3GEY0R00V	Chip	1	1	1	
	R253	ERJ3GEY0R00V	Chip	1	1	1	
	R254	ERJ3GEY0R00V	Chip	1	1	1	
	R255	ERJ3GEY0R00V	Chip	1	1	1	
	R256	ERJ3GEY0R00V	Chip	1	1	1	
	R257	ERJ3GEY0R00V	Chip	1	1	1	
	R258	ERJ3GEY0R00V	Chip	1	1	1	
	R259	ERJ3GEY0R00V	Chip	1	1	1	
	R260	MMZ1608D121B	Chip Bead Inductor	1	1	1	
	R261	MMZ1608D121B	Chip Bead Inductor	1	1	1	
	R262	MMZ1608D121B	Chip Bead Inductor	1	1	1	
	R263	MMZ1608D121B	Chip Bead Inductor	1	1	1	
	R264	MMZ1608D121B	Chip Bead Inductor	1	1	1	
	R265	MMZ1608D121B	Chip Bead Inductor	1	1	1	
	R266	MMZ1608D121B	Chip Bead Inductor	1	1	1	
	R267	MMZ1608D121B	Chip Bead Inductor	1	1	1	
	R268	MMZ1608D121B	Chip Bead Inductor	1	1	1	
	R269	ERJ3GEYJ101V	Chip	1	1	1	
	R270	ERJ3GEYJ103V	Chip	1	1	1	1
	R273	ERJ3GEYJ103V	Chip	1	1	1	1
	R274	ERJ3GEYJ220V	Chip	1	1	1	1
	R277	ERJ3GEY0R00V	Chip	1			
	R278	ERJ3GEYJ472V	Chip	1	1	1	1
	R279	BLM11B050SBPT	Chip Bead Inductor	1	1	1	1
	R282	ERJ3GEYJ102V	Chip	1	1	1	1
	R283	ERJ3GEYJ472V	Chip	1	1	1	1
	R284	ERJ3GEYJ103V	Chip	1	1		1
	R285	ERJ3GEYJ103V	Chip	1	1		1
	R286	ERJ3GEYJ103V	Chip	1	1		1
	R287	ERJ3GEYJ103V	Chip	1	1		1
	R288	ERJ3GEYJ103V	Chip	1			
	R289	ERJ3GEYJ103V	Chip	1			
	R290	ERJ3GEYJ103V	Chip	1			
	R291	ERJ3GEYJ102V	Chip	1	1	1	1
	R292	ERJ3GEYJ102V	Chip	1	1	1	1
	R293	ERJ3GEYJ102V	Chip	1	1	1	1
	R294	ERJ3GEYJ102V	Chip	1	1	1	1
	R295	ERJ3GEYJ471V	Chip	1	1	1	1
	R296	ERJ3GEYJ471V	Chip	1	1	1	1
	R297	ERJ3GEYJ471V	Chip	1	1	1	1
	R298	ERJ3GEYJ471V	Chip	1	1	1	1
	R299	ERJ3GEYJ102V	Chip	1	1		1
	R300	ERJ3GEYJ102V	Chip	1	1		1
	R301	ERJ3GEYJ102V	Chip	1	1		1
	R302	ERJ3GEYJ102V	Chip	1	1		1
	R303	ERJ3GEYJ471V	Chip	1	1		1
	R304	ERJ3GEYJ471V	Chip	1	1		1
	R305	ERJ3GEYJ471V	Chip	1	1		1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	R306	ERJ3GEYJ471V	Chip	1	1		1
	R307	ERJ3GEYJ102V	Chip	1			
	R308	ERJ3GEYJ102V	Chip	1			
	R309	ERJ3GEYJ102V	Chip	1			
	R310	ERJ3GEYJ471V	Chip	1			
	R311	ERJ3GEYJ471V	Chip	1			
	R312	ERJ3GEYJ471V	Chip	1			
	R313	ERJ3GEYJ103V	Chip	1	1	1	1
	R314	ERJ3GEYJ103V	Chip	1	1	1	1
	R315	ERJ3GEYJ103V	Chip	1	1	1	1
	R321	ERJ3GEYJ472V	Chip	1	1	1	1
	R322	ERJ3GEYJ103V	Chip	1	1	1	1
	R323	ERJ3GEYJ103V	Chip	1	1	1	1
	R324	ERJ3GEYJ103V	Chip	1	1	1	1
	R325	ERJ3GEYJ103V	Chip	1	1	1	1
	R326	ERJ3GEYJ331V	Chip	1	1	1	
	R327	ERJ3GEYJ472V	Chip	1	1	1	1
	R333	ERJ3GEYJ103V	Chip	1	1	1	1
	R336	ERJ3GEYJ152V	Chip	1	1	1	1
	R337	ERJ3GEYJ101V	Chip	1	1	1	1
	R338	ERJ3GEYJ152V	Chip	1	1	1	1
	R339	ERJ3GEYJ101V	Chip	1	1	1	1
	R340	ERJ3GEYJ103V	Chip		1	1	1
	R341	ERJ3GEYJ332V	Chip			1	1
	R342	ERJ3GEYJ222V	Chip			1	1
	R343	ERJ3GEYJ332V	Chip	1			
	R344	ERJ3GEYJ222V	Chip	1			
	R347	ERJ3GEY0R00V	Chip		1	1	1
	R348	ERJ3GEYJ472V	Chip		1	1	
	R349	ERJ3GEYJ103V	Chip	1	1	1	
	R352	ERJ3GEY0R00V	Chip			1	1
	R353	ERJ3GEY0R00V	Chip			1	1
	R354	ERJ3GEY0R00V	Chip			1	1
	R355	ERJ6GEY0R00V	Chip			1	1
RESISTORS							
	RA1	MNR14EABJ103	Resistor Array	1	1	1	1
	RA2	MNR14EABJ103	Resistor Array	1	1	1	1
	RA3	MNR14EABJ103	Resistor Array	1	1	1	1
	RA4	MNR14EABJ103	Resistor Array	1	1	1	1
	RA5	MNR14EABJ103	Resistor Array	1	1	1	1
	RA6	MNR14EABJ103	Resistor Array	1	1	1	1
	RA7	MNR14EABJ103	Resistor Array	1	1	1	1
	RA8	MNR14EABJ103	Resistor Array	1	1	1	1
	RA9	MNR14EABJ103	Resistor Array	1	1	1	1
	RA10	MNR14EABJ103	Resistor Array	1	1	1	1
	RA11	MNR14EABJ101	Resistor Array	1	1	1	1
	RA12	MNR14EABJ103	Resistor Array	1	1	1	1
	RA15	MNR14EABJ104	Resistor Array	1	1	1	1
	RA16	MNR14EABJ220	Resistor Array	1	1	1	1
	RA17	MNR14EABJ220	Resistor Array	1	1	1	1
	RA18	MNR14EABJ220	Resistor Array	1	1	1	1
	RA19	MNR14EABJ220	Resistor Array	1	1	1	1
	RA20	MNR14EABJ220	Resistor Array	1	1	1	1
	RA21	MNR14EABJ220	Resistor Array	1	1	1	1
	RA22	MNR14EABJ220	Resistor Array	1	1	1	1
	RA23	MNR14EABJ220	Resistor Array	1	1	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	RA24	MNR14EABJ220	Resistor Array	1	1	1	1
	RA25	MNR14EABJ220	Resistor Array	1	1	1	1
	RA26	MNR14EABJ220	Resistor Array	1	1	1	1
	RA27	MNR14EABJ220	Resistor Array	1	1	1	1
	RA28	MNR14EABJ220	Resistor Array	1	1	1	1
	RA29	MNR14EABJ220	Resistor Array	1	1	1	1
			OTHERS				
	BL1	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL2	ERJ3GEYJ151V	Jamper	1	1	1	1
	BL3	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL4	MMZ1608D121B	Chip Bead Inductor	1			
	BL5	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL6	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL7	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL8	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL9	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL10	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL11	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL12	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL13	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL14	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL15	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL16	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL17	ERJ3GEY0R00V	Jamper	1	1	1	1
	BL18	ERJ3GEYJ750V	Jamper	1	1	1	1
	BL19	ERJ3GEYJ750V	Jamper	1	1	1	1
	BL20	ERJ3GEYJ750V	Jamper	1	1	1	1
	BL21	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL22	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL23	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL24	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL25	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL26	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL27	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL28	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL29	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL30	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL31	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL32	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL33	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL34	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL35	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL36	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL37	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL38	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL39	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL40	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL41	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL42	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL43	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL44	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL45	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL46	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL47	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL48	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL49	MMZ1608D121B	Chip Bead Inductor	1	1	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	BL50	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL51	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL52	ERJ3GEY0R00V	Jamper	1	1	1	1
	BL53	ERJ3GEYJ220V	Jamper	1			
	BL55	ERJ3GEY0R00V	Jamper	1	1	1	1
	BL56	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL57	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL58	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL59	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL60	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL61	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL62	ERJ3GEY0R00V	Jamper	1	1	1	1
	BL63	ERJ3GEYJ750V	Jamper	1	1	1	1
	BL64	BLM11P600SPT	Chip Bead Inductor	1	1	1	1
	BL65	BLM11P600SPT	Chip Bead Inductor			1	1
	BL66	BLM11P600SPT	Chip Bead Inductor	1	1	1	1
	BL67	BLM11P600SPT	Chip Bead Inductor			1	1
	BL68	BLM11P600SPT	Chip Bead Inductor			1	1
	BL69	BLM11P600SPT	Chip Bead Inductor	1	1	1	1
	BL70	ERJ3GEYJ101V	Jamper	1	1	1	
	BL71	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL72	BLM11P600SPT	Chip Bead Inductor	1	1	1	1
	BL73	ERJ3GEYJ100V	Jamper			1	1
	BL74	BLM11P600SPT	Chip Bead Inductor			1	1
	BL75	BLM11P600SPT	Chip Bead Inductor			1	1
	BL76	BLM11P600SPT	Chip Bead Inductor			1	1
	BL77	ERJ3GEYJ220V	Jamper	1	1	1	1
	BL78	ERJ3EKF1200V	Jamper	1			
	BL79	BLM11P600SPT	Chip Bead Inductor	1	1	1	1
	BL80	BLM11B221SDT	Chip Bead Inductor	1			
	BL81	ERJ3GEYJ101V	Jamper	1	1	1	1
	BL82	BLM21P600SGT	Chip Bead Inductor	1	1	1	1
	BL86	BLM21P300SPT	Chip Bead Inductor	1			
	BL87	MMZ1608D121B	Chip Bead Inductor	1			
	BL88	MMZ1608D121B	Chip Bead Inductor	1	1		1
	BL89	MMZ1608D121B	Chip Bead Inductor	1	1		1
	BL91	MMZ1608D121B	Chip Bead Inductor	1	1		1
	BL92	MMZ1608D121B	Chip Bead Inductor	1	1		1
	BL93	MMZ1608D121B	Chip Bead Inductor	1	1		1
	BL94	MMZ1608D121B	Chip Bead Inductor	1	1		1
	BL95	ERJ3GEYJ151V	Jamper	1	1	1	1
	BL96	ERJ3GEYJ151V	Chip	1	1	1	1
	BL97	BLM11P600SPT	Chip Bead Inductor	1			
	BL99	BLM11P600SPT	Chip Bead Inductor	1	1		1
	BL102	BLM11P600SPT	Chip Bead Inductor	1	1		1
	BL103	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL104	BLM21P600SGT	Chip Bead Inductor	1	1	1	1
	BL105	MMZ1608D121B	Chip Bead Inductor	1	1	1	1
	BL106	BLM11P600SPT	Chip Bead Inductor	1	1	1	1
	BL107	ERJ3GEY0R00V	Jamper			1	1
	BL108	ERJ3GEY0R00V	Jamper	1	1		
	BL108	ERJ3GEYJ220V	Jamper			1	1
	BL109	ERJ3GEY0R00V	Jamper	1	1	1	1
OTHERS							
	BT1	BCR20H4	Lithium Battery	1	1	1	1
	BT2	BCR20V4	Lithium Battery	1			

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
OTHERS							
	CN1	DF1112PDSA08	Connector	1	1	1	1
	CN2	DF1114PDSA08	Connector	1	1	1	1
	CN3	DF1110PDSA08	Connector	1	1	1	1
	CN4	DF1116PDSA08	Connector	1	1	1	1
	CN5	175487-7	Connector	1	1	1	1
	CN6	175487-6	Connector	1	1	1	1
	CN7	175487-5	Connector	1	1	1	1
	CN8	DF311P2DSA	Connector	1	1	1	1
	CN9	DF35P2DSA	Connector	1	1	1	1
	CN10	DF310P2DSA	Connector	1	1	1	1
	CN11	179759-1	Connector	1			
	CN12	20FE-BT-VK-N	Connector	1	1	1	1
	CN13	DF315P2DSA	Connector	1	1	1	1
	CN14	B4PSVH	Connector	1	1	1	1
	CN15	DF34P2DSA	Connector	1	1	1	1
	CN16	04FE-BT-VK-N	Connector	1	1	1	1
	CN17	175487-4	Connector	1	1	1	1
	CN18	DF1128PDSA08	Connector	1	1		1
	CN19	DF1108PDSA08	Connector	1			
	CN20	DF3A-2P-2DSA	Connector	1			
	CN21	DF3A-2P-2DSA	Connector	1			
	CN22	DF38P2DSA	Connector	1	1		1
	CN23	FX2M6B60PDSL	Connector	1			
	CN24	DF38P2DSA	Connector	1	1		
	CN26	RE36-83BD29B	Connector	1	1	1	
	CN27	353869-1	Connector		1	1	1
	CN29	94208-0011	Connector		1	1	1
OTHERS							
	NF1	BL02RN2R62T2	Ferrite Bead Inductor	1	1	1	1
	NF5	NFM839470101	Noise Filer	1	1	1	1
	NF6	NFM839470101	Noise Filer	1	1	1	1
	NF7	NFM839470101	Noise Filer	1	1	1	1
	NF8	NFM839470101	Noise Filer	1	1	1	1
	NF9	BL02RN2R62T2	Ferrite Bead Inductor	1	1	1	
	NF10	BL02RN2R62T2	Ferrite Bead Inductor	1	1	1	1
	NF11	BL02RN2R62T2	Ferrite Bead Inductor	1	1	1	1
	NF12	BL02RN2R62T2	Ferrite Bead Inductor	1	1	1	1
	NF13	BL02RN2R62T2	Ferrite Bead Inductor	1	1	1	1
	NF14	NFM839470101	Noise Filer	1	1	1	1
	NF15	NFM839470101	Noise Filer	1	1	1	1
	NF16	NFM60R30T222	Noise Filer			1	1
	NF17	NFM60R30T222	Noise Filer			1	1
	NF18	NFM60R30T222	Noise Filer			1	1
	NF19	ERJ8GEY0R00V	Chip			1	1
	NF20	ERJ6GEY0R00V	Chip			1	1
	NF21	ERJ8GEY0R00V	Chip			1	1
	NF22	ERJ6GEY0R00V	Chip			1	1
	NF23	ERJ8GEY0R00V	Chip			1	1
	NF24	NFM60R30T222	Noise Filer			1	1
	NF25	ERJ8GEY0R00V	Chip			1	1
	NF26	ERJ8GEY0R00V	Chip			1	1
	NF27	ERJ8GEY0R00V	Chip			1	1
	NF28	NFM60R30T222	Noise Filter				1
	MF28	NFM60R30T222	Noise Filer			1	
	NF29	ERJ8GEY0R00V	Chip			1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit			
				FX/FP Model	A Model	P Model	PA Model
	NF34	ERJ6GEY0R00V	Chip			1	1
	NF35	NFM60R30T222	Noise Filer			1	1
	NF36	NFM60R30T222	Noise Filer			1	1
	NF37	NFM60R30T222	Noise Filer			1	1
OTHERS							
	XL1	HC49US7.15MT	Quartz Cystal	1	1	1	1
	XL2	KCO736S27P38	Quartz Cystal	1	1	1	1
	XL3	KCO766S17P48	Quartz Cystal	1	1	1	1
	XL4	KCO736S21P00	Quartz Cystal	1	1	1	1
	XL5	KCO766S16P04	Quartz Cystal	1	1	1	1
	XL6	MC306-32.7	Quartz Cystal	1	1	1	1
	XL7	FCR4.0MC5T	Quartz Cystal	1	1	1	1
	XL8	EFOMC2005T4	Quartz Cystal	1	1	1	

3.3. Main CPU PC Board (FFPWB06641 for DP-150/130)

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit
			CAPACITORS	
	C1	C1608F1E104Z	Chip	
	C2	C1608F1E104Z	Chip	
	C3	C1608F1E104Z	Chip	
	C4	C1608F1E104Z	Chip	
	C5	C1608F1E104Z	Chip	
	C6	C1608F1E104Z	Chip	
	C7	C1608F1E104Z	Chip	
	C8	C1608F1E104Z	Chip	
	C9	C1608H1H471J	Chip	
	C10	C1608F1E104Z	Chip	
	C11	C1608F1E104Z	Chip	
	C12	C1608F1E104Z	Chip	
	C13	C1608F1E104Z	Chip	
	C14	C1608F1E104Z	Chip	
	C15	C1608F1E104Z	Chip	
	C16	C1608F1E104Z	Chip	
	C17	C1608F1E104Z	Chip	
	C18	C1608F1E104Z	Chip	
	C19	C1608F1E104Z	Chip	
	C20	C1608F1E104Z	Chip	
	C21	C1608F1E104Z	Chip	
	C22	C1608F1E104Z	Chip	
	C23	C1608F1E104Z	Chip	
	C24	C1608F1E104Z	Chip	
	C25	C1608F1E104Z	Chip	
	C26	C1608F1E104Z	Chip	
	C27	C1608F1E104Z	Chip	
	C28	C1608F1E104Z	Chip	
	C29	C1608F1E104Z	Chip	
	C30	C1608F1E104Z	Chip	
	C31	C1608F1E104Z	Chip	
	C32	C1608F1E104Z	Chip	
	C33	C1608F1E104Z	Chip	
	C34	C1608F1E104Z	Chip	
	C35	C1608F1E104Z	Chip	
	C36	C1608F1E104Z	Chip	
	C37	C1608F1E104Z	Chip	
	C38	C1608F1E104Z	Chip	
	C39	C1608F1E104Z	Chip	
	C40	C1608F1E104Z	Chip	
	C41	C1608F1E104Z	Chip	
	C42	C1608F1E104Z	Chip	
	C43	C1608F1E104Z	Chip	
	C44	C1608F1E104Z	Chip	
	C45	C1608F1E104Z	Chip	
	C46	C1608F1E104Z	Chip	
	C47	C1608F1E104Z	Chip	
	C48	C1608F1E104Z	Chip	
	C49	C1608F1E104Z	Chip	
	C50	C1608F1E104Z	Chip	
	C51	C1608F1E104Z	Chip	
	C52	C1608F1E104Z	Chip	
	C53	C1608F1E104Z	Chip	
	C54	C1608F1E104Z	Chip	
	C55	C1608F1E104Z	Chip	

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit
	C56	C1608F1E104Z	Chip	
	C57	C1608F1E104Z	Chip	
	C58	C1608F1E104Z	Chip	
	C61	C1608F1E104Z	Chip	
	C62	C1608F1E104Z	Chip	
			CAPACITORS	
	C63	ECEA1CKA100B	Electrolytic	
	C64	ECEA1CKA100B	Electrolytic	
	C65	ECEA1CKA100B	Electrolytic	
	C66	ECEA1CKA100B	Electrolytic	
	C67	C1608F1E104Z	Chip	
	C68	ECEA1CKA100B	Electrolytic	
	C69	ECEA1CKA100B	Electrolytic	
	C70	ECEA1CKA100B	Electrolytic	
	C71	ECEA1CKA100B	Electrolytic	
	C72	ECEA1CKA100B	Electrolytic	
	C73	ECEA1CKA100B	Electrolytic	
	C74	ECEA1CKA100B	Electrolytic	
	C75	C1608H1H220J	Chip	
	C76	C1608H1H220J	Chip	
	C77	C1608H1H102J	Chip	
	C78	C1608H1H102J	Chip	
	C79	C1608H1H102J	Chip	
	C80	C1608H1H102J	Chip	
	C81	C1608H1H102J	Chip	
	C82	C1608H1H102J	Chip	
	C83	C1608F1E104Z	Chip	
	C84	C1608H1H102J	Chip	
	C85	C1608H1H102J	Chip	
	C86	C1608H1H102J	Chip	
	C87	C1608H1H102J	Chip	
	C88	C1608H1H102J	Chip	
	C89	C1608H1H102J	Chip	
	C90	C1608H1H102J	Chip	
	C91	C1608H1H102J	Chip	
	C92	C1608H1H102J	Chip	
	C93	C1608H1H102J	Chip	
	C94	C1608H1H102J	Chip	
	C95	C1608H1H102J	Chip	
	C96	C1608H1H102J	Chip	
	C97	C1608F1E104Z	Chip	
	C98	C1608H1H102J	Chip	
	C99	C1608H1H102J	Chip	
	C100	C1608H1H102J	Chip	
	C101	C1608H1H102J	Chip	
	C102	C1608F1E104Z	Chip	
	C103	C1608H1H102J	Chip	
	C104	ECQV1H155JL3	Polyester Firm	
	C105	C1608F1E104Z	Chip	
	C106	C1608F1E104Z	Chip	
	C107	C1608F1E104Z	Chip	
	C108	ECJ2VF1H104Z	Chip	
	C109	ECJ2VF1H104Z	Chip	
	C110	ECJ2VF1H104Z	Chip	
	C111	ECJ2VF1H104Z	Chip	
	C112	ECJ2VF1H104Z	Chip	
	C113	ECJ2VF1H104Z	Chip	
	C114	ECJ1VF1E104Z	Chip	

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit
	C115	ECJ1VF1E104Z	Chip	
	C116	C1608B1H103K	Chip	
	C117	C1608B1H103K	Chip	
	C118	C1608B1H103K	Chip	
	C119	C1608B1H103K	Chip	
	C120	C1608B1H103K	Chip	
	C121	C1608B1H103K	Chip	
	C122	C1608H1H101J	Chip	
	C123	ECQV1H104JL3	Polyester Firm	
			CAPACITORS	
	C124	ECA1VM101B	Electrolytic	
	C125	ECA1VM101B	Electrolytic	
	C126	ECA1VM101B	Electrolytic	
	C127	ECA1VM101B	Electrolytic	
	C128	ECA1VM101B	Electrolytic	
	C129	ECEA1CKA101B	Electrolytic	
	C130	ECEA1CKA101B	Electrolytic	
	C131	ECEA1CKA101B	Electrolytic	
	C132	ECEA1CKA101B	Electrolytic	
	C133	ECEA1VKA100B	Electrolytic	
	C134	ECEA1VKA100B	Electrolytic	
	C135	C1608B1H103K	Chip	
	C138	ECJ1VF1E104Z	Chip	
	C139	C1608H1H102J	Chip	
	C140	C1608H1H102J	Chip	
	C141	C1608H1H102J	Chip	
	C142	C1608H1H102J	Chip	
	C143	C1608H1H102J	Chip	
	C144	C1608H1H102J	Chip	
	C145	C1608H1H102J	Chip	
	C146	C1608H1H102J	Chip	
	C147	ECQV1H224JL3	Polyester Film	
	C148	C1608F1E104Z	Chip	
	C149	C1608F1E104Z	Chip	
	C150	C1608F1E104Z	Chip	
	C151	C1608F1E104Z	Chip	
	C152	C1608F1E104Z	Chip	
	C153	C1608B1H103K	Chip	
	C243	C1608H1H101J	Chip	
	C244	C1608H1H102J	Chip	
	C245	C1608F1E104Z	Chip	
			DIODES	
	D1	MA152K-(TX)	Chip	
	D2	MA152K-(TX)	Chip	
	D3	MA152K-(TX)	Chip	
	D4	MA717TX	Chip	
	D5	1SR139400T32	Diode	
	D6	1SR139400T32	Diode	
	D7	MA152K-(TX)	Chip	
	D8	1SR139400T32	Diode	
	D9	1SR139400T32	Diode	
	D10	1DL42TPA3	Diode	
	D11	1DL42TPA3	Diode	
	D12	1DL42TPA3	Diode	
	D13	1DL42TPA3	Diode	
			DIODES	
	DA1	MA153A-(TX)	Diode Array	
	DA2	MA128TX	Diode Array	

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit
	DA3	MA127TX	Diode Array	
	ZD1	MA3051MTX	Zener	
	ZD2	1ZB51TPA3	Zener	
			ICS	
	IC1	HD7041AF39F	CPU	
	IC2	LHF40VZ3	Flash Memory	
	IC3	LC35256DM70	SRAM	
	IC4	LC35256DM70	SRAM	
	IC5	MB3773TR	Reset IC	
	IC6	TC74VHC14FEL	CMOS	
	IC7	FFPAV0009	Gate Array	
	IC8	M62356P	D/A Convertor	
	IC9	BA10324FT2	OP Amp	
	IC10	T74VHC244FEL	TTL	
	IC11	TC74VHC14FEL	CMOS	
	IC12	M66236FPT2	D/A Convertor	
	IC13	TC74VHC14FEL	CMOS	
	IC14	BA10393FT2	OP Amp	
	IC15	TC74VHC74FEL	CMOS	
	IC16	T74HC112AFEL	TTL	
	IC17	TC74VHC08FEL	CMOS	
	IC18	TD62308BP-1	Transistor Array	
	IC19	SLA7032M	Motor Driver	
	IC20	TC35071F	A/D Convertor	
	IC21	TC35071F	A/D Convertor	
	IC23	BA10358FT2	OP Amp	
	IC24	MB3771PFEF	Reset IC	
	IC25	LC35256DM70	SRAM	
	IC26	LC35256DM70	SRAM	
			TRANSISTORS	
	DT1	DTC114EKA146	Chip Digital	
	DT2	DTC114EKA146	Chip Digital	
	DT3	DTC114EKA146	Chip Digital	
	DT4	DTC114EKA146	Chip Digital	
	DT5	DTC114EKA146	Chip Digital	
	DT6	DTC114EKA146	Chip Digital	
	DT7	DTC114EKA146	Chip Digital	
	DT8	DTC114EKA146	Chip Digital	
	DT9	DTC114EKA146	Chip Digital	
	DT10	DTC114EKA146	Chip Digital	
	DT11	DTC114EKA146	Chip Digital	
	DT12	DTC114EKA146	Chip Digital	
	DT13	DTC114EKA146	Chip Digital	
	DT14	DTC114EKA146	Chip Digital	
	DT15	DTC114EKA146	Chip Digital	
	DT16	DTC114EKA146	Chip Digital	
	DT17	DTC114EKA146	Chip Digital	
	DT18	DTC114EKA146	Chip Digital	
	DT20	DTA114EKA146	Chip Digital	
	DT21	DTA114EKA146	Chip Digital	
	DT22	DTC143EKA146	Chip Digital	
	DT23	DTC143EKA146	Chip Digital	
	DT24	DTC143EKA146	Chip Digital	
	DT25	DTC143EKA146	Chip Digital	
	DT26	DTC143EKA146	Chip Digital	
	DT27	DTC143EKA146	Chip Digital	
	DT28	DTA114EKA146	Chip Digital	

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit
	DT29	DTC114EKA146	Chip Digital	
	DT30	DTC114EKA146	Chip Digital	
	DT48	DTC114EKA146	Chip Digital	
	DT49	DTC114EKA146	Chip Digital	
			TRANSISTORS	
	Q1	2SB709ATX	Transistor	
	Q2	2SC2412KT146	Transistor	
	Q3	2SC2412KT146	Transistor	
	Q4	2SC2412KT146	Transistor	
	Q5	2SA1674TA	Transistor	
	Q7	2SC2412KT146	Transistor	
	Q19	2SD1994ATA	Transistor	
			RESISTORS	
	R1	ERJ3GEYJ103V	Chip	
	R2	ERJ3GEYJ103V	Chip	
	R3	ERJ3GEYJ103V	Chip	
	R4	ERJ3GEYJ103V	Chip	
	R5	ERJ3GEYJ103V	Chip	
	R6	ERJ3GEYJ201V	Chip	
	R7	ERJ3GEYJ201V	Chip	
	R8	ERJ3GEYJ102V	Chip	
	R9	ERJ3GEYJ102V	Chip	
	R10	ERJ3GEYJ152V	Chip	
	R11	ERJ3GEYJ152V	Chip	
	R12	ERJ3GEYJ152V	Chip	
	R14	ERJ3GEYJ152V	Chip	
	R15	ERJ3GEYJ152V	Chip	
	R16	ERJ3GEYJ152V	Chip	
	R17	ERJ3GEYJ152V	Chip	
	R18	ERJ3GEYJ152V	Chip	
	R19	ERJ3GEYJ152V	Chip	
	R20	ERJ3GEYJ152V	Chip	
	R21	ERJ3GEYJ152V	Chip	
	R22	ERJ3GEYJ152V	Chip	
	R23	ERJ3GEYJ152V	Chip	
	R24	ERJ3GEYJ152V	Chip	
	R26	ERJ3GEYJ152V	Chip	
	R27	ERJ3GEYJ152V	Chip	
	R28	ERJ3GEYJ152V	Chip	
	R29	ERJ3GEYJ152V	Chip	
	R30	ERJ3GEYJ103V	Chip	
	R31	ERJ3GEYJ152V	Chip	
	R32	ERJ3GEYJ102V	Chip	
	R33	ERJ3GEYJ152V	Chip	
	R34	ERJ3GEYJ103V	Chip	
	R35	ERJ3GEYJ103V	Chip	
	R36	ERJ3GEYJ102V	Chip	
	R37	ERJ3GEYJ102V	Chip	
	R38	ERJ3GEYJ472V	Chip	
	R39	ERJ3GEYJ472V	Chip	
	R40	ERJ3GEYJ102V	Chip	
	R41	ERJ3GEYJ103V	Chip	
	R42	ERJ3GEYJ472V	Chip	
	R43	ERJ3GEYJ472V	Chip	
	R44	ERJ3GEYJ683V	Chip	
	R45	ERJ3GEYJ683V	Chip	
	R46	ERJ3GEYJ683V	Chip	
	R47	ERJ3GEYJ302V	Chip	

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit
	R48	ERJ3GEYJ103V	Chip	
	R49	ERJ3GEYJ103V	Chip	
	R50	ERJ3GEYJ103V	Chip	
	R51	ERJ3GEYJ103V	Chip	
	R52	ERJ3GEYJ103V	Chip	
	R53	ERJ3GEYJ103V	Chip	
	R54	ERJ3GEYJ392V	Chip	
	R58	ERJ3GEYJ103V	Chip	
	R59	ERJ3GEYJ103V	Chip	
	R60	ERJ3GEYJ103V	Chip	
	R61	ERJ3GEYJ103V	Chip	
	R62	ERJ3GEYJ103V	Chip	
	R63	ERJ3GEYJ103V	Chip	
	R64	ERJ3GEYJ103V	Chip	
	R65	ERJ3GEYJ103V	Chip	
	R66	ERJ3GEYJ103V	Chip	
	R67	ERJ3GEYJ103V	Chip	
			RESISTORS	
	R68	ERJ3GEYJ103V	Chip	
	R69	ERJ3GEYJ103V	Chip	
	R70	ERJ3GEYJ103V	Chip	
	R71	ERJ3GEYJ103V	Chip	
	R73	ERJ3GEYJ103V	Chip	
	R74	ERJ3GEYJ122V	Chip	
	R75	ERJ3GEY0R00V	Chip	
	R76	ERJ3GEY0R00V	Chip	
	R77	ERJ3GEY0R00V	Chip	
	R79	ERJ3GEY0R00V	Chip	
	R82	ERJ3GEY0R00V	Chip	
	R84	ERJ3EKF7501V	Chip	
	R85	ERJ3EKF8201V	Chip	
	R86	ERJ3EKF8201V	Chip	
	R87	ERJ3EKF3901V	Chip	
	R88	ERJ3GEYJ334V	Chip	
	R89	ERJ3GEYJ334V	Chip	
	R90	ERJ3GEYJ101V	Chip	
	R91	ERJ3GEYJ103V	Chip	
	R92	ERJ3GEYJ101V	Chip	
	R93	ERJ3GEYJ101V	Chip	
	R94	ERJ3GEYJ101V	Chip	
	R95	ERJ3GEYJ101V	Chip	
	R96	ERJ3GEYJ101V	Chip	
	R97	ERJ3GEYJ101V	Chip	
	R98	ERJ3GEYJ101V	Chip	
	R99	ERJ3GEYJ101V	Chip	
	R100	ERJ3GEYJ101V	Chip	
	R101	ERJ3GEYJ101V	Chip	
	R102	ERJ3GEYJ101V	Chip	
	R104	ERJ3GEYJ101V	Chip	
	R105	ERJ3GEYJ101V	Chip	
	R106	ERJ3GEYJ101V	Chip	
	R107	ERJ3GEYJ101V	Chip	
	R109	ERJ3GEYJ101V	Chip	
	R110	ERJ3EKF1500V	Chip	
	R111	ERJ3GEYJ103V	Chip	
	R114	ERX2SJ1R0E	Metal Oxide	
	R115	ERX2SJ1R0E	Metal Oxide	
	R116	ERJ3EKF3900V	Chip	

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit
	R117	ERJ3EKF1000V	Chip	
	R118	ERJ6GEYJ472V	Chip	
	R121	ERJ3GEYJ103V	Chip	
	R122	ERJ3GEYJ152V	Chip	
	R123	ERJ3GEYJ152V	Chip	
	R124	ERJ3GEYJ102V	Chip	
	R125	ERJ3GEYJ102V	Chip	
	R126	ERJ3GEYJ101V	Chip	
	R127	ERJ3GEYJ101V	Chip	
	R128	ERJ3GEYJ101V	Chip	
	R129	ERJ3GEYJ103V	Chip	
	R130	ERJ3GEYJ103V	Chip	
	R131	ERJ3GEYJ103V	Chip	
	R132	ERJ3GEYJ100V	Chip	
	R133	MMZ1608D121B	Chip Ferrite	
	R134	MMZ1608D121B	Chip Ferrite	
	R135	MMZ1608D121B	Chip Ferrite	
	R136	MMZ1608D121B	Chip Ferrite	
	R138	ERJ3GEYJ103V	Chip	
	R139	ERJ3GEYJ102V	Chip	
	R140	ERJ3GEYJ102V	Chip	
			RESISTORS	
	R142	ERJ3GEY0R00V	Chip	
	R143	ERJ3GEYJ100V	Chip	
	R147	ERJ3GEYJ103V	Chip	
	R338	ERJ3GEYJ101V	Chip	
	R339	ERJ3GEYJ152V	Chip	
	R340	ERJ3GEYJ103V	Chip	
	R341	ERJ3GEYJ103V	Chip	
			RESISTORS	
	RA1	MNR14EABJ103	Resistor Array	
	RA2	MNR14EABJ103	Resistor Array	
	RA3	MNR14EABJ103	Resistor Array	
	RA4	MNR14EABJ103	Resistor Array	
	RA5	MNR14EABJ103	Resistor Array	
	RA6	MNR14EABJ103	Resistor Array	
	RA7	MNR14EABJ103	Resistor Array	
	RA8	MNR14EABJ103	Resistor Array	
	RA9	MNR14EABJ103	Resistor Array	
	RA10	MNR14EABJ103	Resistor Array	
	RA11	MNR14EABJ101	Resistor Array	
			OTHERS	
	BL1	MMZ1608D121B	Chip Bead Inductor	
	BL2	MMZ1608D121B	Chip Bead Inductor	
	BL3	MMZ1608D121B	Chip Bead Inductor	
	BL4	MMZ1608D121B	Chip Bead Inductor	
	BL5	MMZ1608D121B	Chip Bead Inductor	
	BL6	MMZ1608D121B	Chip Bead Inductor	
	BL7	MMZ1608D121B	Chip Bead Inductor	
	BL8	MMZ1608D121B	Chip Bead Inductor	
	BL9	MMZ1608D121B	Chip Bead Inductor	
	BL10	MMZ1608D121B	Chip Bead Inductor	
	BL11	MMZ1608D121B	Chip Bead Inductor	
	BL12	MMZ1608D121B	Chip Bead Inductor	
	BL13	MMZ1608D121B	Chip Bead Inductor	
	BL14	MMZ1608D121B	Chip Bead Inductor	
	BL15	MMZ1608D121B	Chip Bead Inductor	
	BL16	MMZ1608D121B	Chip Bead Inductor	

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit
	BL17	ERJ3GEY0R00V	Jamper	
	BL18	ERJ3GEYJ750V	Jamper	
	BL19	ERJ3GEYJ750V	Jamper	
	BL20	ERJ3GEYJ750V	Jamper	
	BL21	MMZ1608D121B	Chip Bead Inductor	
	BL22	MMZ1608D121B	Chip Bead Inductor	
	BL23	MMZ1608D121B	Chip Bead Inductor	
	BL24	MMZ1608D121B	Chip Bead Inductor	
	BL25	MMZ1608D121B	Chip Bead Inductor	
	BL26	MMZ1608D121B	Chip Bead Inductor	
	BL27	MMZ1608D121B	Chip Bead Inductor	
	BL28	MMZ1608D121B	Chip Bead Inductor	
	BL29	MMZ1608D121B	Chip Bead Inductor	
	BL30	MMZ1608D121B	Chip Bead Inductor	
	BL31	MMZ1608D121B	Chip Bead Inductor	
	BL32	MMZ1608D121B	Chip Bead Inductor	
	BL33	MMZ1608D121B	Chip Bead Inductor	
	BL34	MMZ1608D121B	Chip Bead Inductor	
	BL35	MMZ1608D121B	Chip Bead Inductor	
	BL36	MMZ1608D121B	Chip Bead Inductor	
	BL37	MMZ1608D121B	Chip Bead Inductor	
	BL38	MMZ1608D121B	Chip Bead Inductor	
	BL39	MMZ1608D121B	Chip Bead Inductor	
	BL40	MMZ1608D121B	Chip Bead Inductor	
	BL41	MMZ1608D121B	Chip Bead Inductor	
	BL42	MMZ1608D121B	Chip Bead Inductor	
	BL43	MMZ1608D121B	Chip Bead Inductor	
	BL44	MMZ1608D121B	Chip Bead Inductor	
	BL45	MMZ1608D121B	Chip Bead Inductor	
	BL46	ERJ3GEY0R00V	Jamper	
	BL47	ERJ3GEY0R00V	Jamper	
	BL48	MMZ1608D121B	Chip Bead Inductor	
	BL49	MMZ1608D121B	Chip Bead Inductor	
	BL50	MMZ1608D121B	Chip Bead Inductor	
	BL51	MMZ1608D121B	Chip Bead Inductor	
	BL56	MMZ1608D121B	Chip Bead Inductor	
	BL57	MMZ1608D121B	Chip Bead Inductor	
	BL58	MMZ1608D121B	Chip Bead Inductor	
	BL59	MMZ1608D121B	Chip Bead Inductor	
	BL60	MMZ1608D121B	Chip Bead Inductor	
	BL61	MMZ1608D121B	Chip Bead Inductor	
	BL62	MMZ1608D121B	Chip Bead Inductor	
	BL63	MMZ1608D121B	Chip Bead Inductor	
	BL64	BLM11P600SPT	Chip Bead Inductor	
	BL65	ERJ3GEY0R00V	Jamper	
			OTHERS	
	BL66	BLM11P600SPT	Chip Bead Inductor	
	BL67	BLM11P600SPT	Chip Bead Inductor	
	BL68	BLM11P600SPT	Chip Bead Inductor	
	BL69	BLM11P600SPT	Chip Bead Inductor	
	BL70	BLM11P600SPT	Chip Bead Inductor	
	BL71	MMZ1608D121B	Chip Bead Inductor	
	BL72	BLM11P600SPT	Chip Bead Inductor	
	BL74	BLM11P600SPT	Chip Bead Inductor	
	BL75	BLM11P600SPT	Chip Bead Inductor	
	BL76	BLM11P600SPT	Chip Bead Inductor	
	BL79	BLM11P600SPT	Chip Bead Inductor	
	BL82	BLM21P600SGT	Chip Bead Inductor	

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit
			OTHERS	
	BT1	CR2330-1HH	Lithium Battery	
			OTHERS	
	CN1	DF1112PDSA08	Connector	
	CN2	DF1114PDSA08	Connector	
	CN3	DF1110PDSA08	Connector	
	CN4	DF1116PDSA08	Connector	
	CN5	175487-7	Connector	
	CN6	175487-6	Connector	
	CN7	175487-5	Connector	
	CN8	DF311P2DSA	Connector	
	CN9	DF35P2DSA	Connector	
	CN10	DF310P2DSA	Connector	
	CN11	ICMC68HS1124	Connector	
	CN12	20FE-BT-VK-N	Connector	
	CN13	DF315P2DSA	Connector	
	CN14	B4P-VH	Connector	
	CN15	DF34P2DSA	Connector	
	CN16	04FE-BT-VK-N	Connector	
	CN17	175487-4	Connector	
	CN29	DF3A-2P-2DSA	Connector	
			OTHERS	
	NF1	DSS30691F103	Noise Filter	
	NF5	NFM839470101	Noise Filter	
	NF6	NFM839470101	Noise Filter	
	NF7	NFM839470101	Noise Filter	
	NF8	NFM839470101	Noise Filter	
	NF14	NFM839470101	Noise Filter	
	NF15	NFM839470101	Noise Filter	
			OTHERS	
	XL1	HC49US7.15MT	Quartz Cystal	
	XL2	KCO736S27P38	Quartz Cystal	
	XL3	KCO766S17P48	Quartz Cystal	
	XL4	KCO736S21P00	Quartz Cystal	

3.4. Control Panel PC Board (FFPWB0667 for DP-150/130) Control Panel PC Board (FFPWB06671 for DP-150A/150P/150PA/130P)

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit	
				V Model	A/P/PA Model
			CAPACITORS		
	C401	1CMS5-101TZ8	Electrolytic	1	1
	C402	RPE132F104ZT	Ceramic	1	1
	C403	C2012F1E104Z	Chip	1	1
	C404	C2012F1E104Z	Chip	1	1
	C405	C2012F1E104Z	Chip	1	1
	C406	ECBT1H102KB5	Ceramic	1	1
	C407	ECBT1H101KB5	Ceramic	1	1
	C408	ECBT1H101KB5	Ceramic	1	1
	C409	ECBT1H102KB5	Ceramic	1	1
	C410	ECBT1H101KB5	Ceramic	1	1
	C411	C2012F1E104Z	Chip	1	1
			DIODES		
	D401	LB603MF	LED, 7-Segment	1	1
	D402	LNJ301MPUJA	LED, Green	1	1
	D403	LNJ801LPDJA	LED, Orange	1	1
	D404	LNJ301MPUJA	LED, Green	1	1
	D405	LNJ301MPUJA	LED, Green	1	1
	D406	LNJ301MPUJA	LED, Green	1	1
	D407	LNJ301MPUJA	LED, Green	1	1
	D408	LNJ301MPUJA	LED, Green		1
	D409	LNJ801LPDJA	LED, Orange	1	1
	D410	LNJ801LPDJA	LED, Orange	1	1
	D411	LNJ801LPDJA	LED, Orange	1	1
	D412	LNJ801LPDJA	LED, Orange	1	1
	D413	LNJ301MPUJA	LED, Green	1	1
	D414	LNJ301MPUJA	LED, Green	1	1
	D415	LNJ301MPUJA	LED, Green	1	1
	D416	LNJ301MPUJA	LED, Green	1	1
	D417	LNJ301MPUJA	LED, Green	1	1
	D418	LNJ301MPUJA	LED, Green	1	1
	D419	LNJ301MPUJA	LED, Green	1	1
	D420	LNJ301MPUJA	LED, Green	1	1
	D421	LNJ301MPUJA	LED, Green	1	1
	D422	LNJ301MPUJA	LED, Green	1	1
	D423	LNJ301MPUJA	LED, Green		1
	D424	LNJ301MPUJA	LED, Green		1
	D425	LNJ301MPUJA	LED, Green		1
	D430	MA165-(TA5)	Diode	1	1
	D431	MA165-(TA5)	Diode	1	1
			ICS		
	IC401	TC74HC14AFEL	CMOS	1	1
	IC402	TC74HC165FEL	CMOS	1	1
	IC403	M66311FP250D	Driver	1	1
			TRANSISTOR		
	DT401	DTC143EKA146	Digital	1	1
			TRANSISTORS		
	Q401	2SB1278TL2	Transistor	1	1
	Q402	2SB1278TL2	Transistor	1	1
	Q403	2SB1278TL2	Transistor	1	1
	Q404	2SB1278TL2	Transistor	1	1
			RESISITORS		
	R401	ERJ6GEYJ102V	Chip	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit	
				V Model	A/P/PA Model
	R402	ERDS2TJ101T	Carbon	1	1
	R403	ERJ6GEYJ331V	Chip	1	1
	R404	ERDS2TJ101T	Carbon	1	1
	R405	ERDS2TJ102T	Carbon	1	1
	R406	ERJ6GEYJ101V	Chip	1	1
	R407	ERDS2TJ102T	Carbon	1	1
	R408	ERJ6GEYJ101V	Chip	1	1
	R409	ERDS2TJ331T	Carbon	1	1
	R410	ERJ6GEYJ101V	Chip	1	1
	R411	ERDS2TJ331T	Carbon	1	1
	R412	ERDS2TJ331T	Carbon	1	1
	R413	ERDS2TJ103T	Carbon	1	1
	R414	ERDS2TJ331T	Carbon	1	1
	R415	ERDS2TJ331T	Carbon	1	1
	R416	ERDS2TJ103T	Carbon	1	1
	R417	ERDS2TJ331T	Carbon	1	1
	R418	ERDS2TJ331T	Carbon	1	1
	R419	ERJ6GEYJ103V	Chip	1	1
	R420	ERJ6GEYJ331V	Chip	1	1
	R421	ERJ6GEYJ331V	Chip	1	1
	R422	ERJ6GEYJ103V	Chip	1	1
	R424	ERJ6GEYJ103V	Chip	1	1
	R425	ERDS2TJ103T	Carbon	1	1
	R426	ERDS2TJ103T	Carbon	1	1
	R427	ERJ6GEYJ103V	Chip	1	1
	R428	ERDS2TJ103T	Carbon	1	1
	R429	ERDS2TJ103T	Carbon	1	1
	R431	ERDS2TJ680T	Carbon	1	1
	R432	ERDS2TJ680T	Carbon	1	1
	R433	ERDS2TJ680T	Carbon	1	1
	R434	ERDS2TJ680T	Carbon	1	1
	R435	ERDS2TJ680T	Carbon	1	1
	R436	ERDS2TJ680T	Carbon	1	1
	R437	ERDS2TJ680T	Carbon	1	1
	R438	ERDS2TJ680T	Carbon	1	1
	R439	ERDS2TJ680T	Carbon	1	1
	R440	ERDS2TJ680T	Carbon	1	1
	R441	ERDS2TJ680T	Carbon	1	1
	R442	ERDS2TJ680T	Carbon	1	1
	R457	ERDS2TJ221T	Carbon	1	1
			OTHERS		
	CN401	DF1114DP2DS	Connector	1	1
			OTHERS		
	BL401	BL01RN1A63T6	Chip Bead Inductor	1	1
	BL402	BL01RN1A63T6	Chip Bead Inductor	1	1
	BL403	BL01RN1A63T6	Chip Bead Inductor	1	1
			OTHERS		
	J401	FFPEY0015-9	Jamper	1	1
	J402	FFPEY0015-9	Jamper	1	1
	J403	FFPEY0015-9	Jamper	1	1
	J404	FFPEY0015-9	Jamper	1	1
	J405	FFPEY0015-9	Jamper	1	1
	J406	FFPEY0015-9	Jamper	1	1
	J407	FFPEY0015-9	Jamper	1	1
	J408	FFPEY0015-9	Jamper	1	1
	J409	FFPEY0015-9	Jamper	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit	
				V Model	A/P/PA Model
	J410	FFPEY0015-9	Jamper	1	1
	J411	FFPEY0015-9	Jamper	1	1
	J412	FFPEY0015-9	Jamper	1	1
	J413	FFPEY0015-9	Jamper	1	1
	J414	FFPEY0015-9	Jamper	1	1
	J415	FFPEY0015-9	Jamper	1	1
	J416	FFPEY0015-9	Jamper	1	1
	J417	FFPEY0015-9	Jamper	1	1
	J418	FFPEY0015-9	Jamper	1	1
	J419	FFPEY0015-9	Jamper	1	1
	J420	FFPEY0015-9	Jamper	1	1
	J421	FFPEY0015-9	Jamper	1	1
	J422	FFPEY0015-9	Jamper	1	1
	J423	FFPEY0015-9	Jamper	1	1
	J424	FFPEY0015-9	Jamper	1	1
	J425	FFPEY0015-9	Jamper	1	1
	J426	FFPEY0015-9	Jamper	1	1
	J427	FFPEY0015-9	Jamper	1	1
	J428	FFPEY0015-9	Jamper	1	1
	J429	FFPEY0015-9	Jamper	1	1
	J430	FFPEY0015-9	Jamper	1	1
	J431	FFPEY0015-9	Jamper	1	1
	J432	FFPEY0015-9	Jamper	1	1
	J433	FFPEY0015-9	Jamper	1	1
	J434	FFPEY0015-9	Jamper	1	1
	J435	FFPEY0015-9	Jamper	1	1
	J436	FFPEY0015-9	Jamper	1	1
	J437	FFPEY0015-9	Jamper	1	1
	J438	FFPEY0015-9	Jamper	1	1
	J439	FFPEY0015-9	Jamper	1	1
	J440	FFPEY0015-9	Jamper	1	1
	J441	FFPEY0015-9	Jamper	1	1
	J442	FFPEY0015-9	Jamper	1	1
	J443	FFPEY0015-9	Jamper	1	1
	J444	FFPEY0015-9	Jamper	1	1
	J445	FFPEY0015-9	Jamper	1	1
	J446	FFPEY0015-9	Jamper	1	1
	J447	FFPEY0015-9	Jamper	1	1
	J448	FFPEY0015-9	Jamper	1	1
	J449	FFPEY0015-9	Jamper	1	1
	J450	FFPEY0015-9	Jamper	1	1
	J451	FFPEY0015-9	Jamper	1	1
	J452	FFPEY0015-9	Jamper	1	1
	J453	FFPEY0015-9	Jamper	1	1
	J454	FFPEY0015-9	Jamper	1	1
	J455	FFPEY0015-9	Jamper	1	1
	J456	FFPEY0015-9	Jamper	1	1
	J457	FFPEY0015-9	Jamper	1	1
	J458	FFPEY0015-9	Jamper	1	1
	J459	FFPEY0015-9	Jamper	1	1
	J460	FFPEY0015-9	Jamper	1	1
	J461	FFPEY0015-9	Jamper	1	1
	J462	FFPEY0015-9	Jamper	1	1
	J463	FFPEY0015-9	Jamper	1	1
	J464	FFPEY0015-9	Jamper	1	1
	J465	FFPEY0015-9	Jamper	1	1

Safety Mark	Ref. No.	Part Number	Description	Q'ty per Unit	
				V Model	A/P/PA Model
	J466	FFPEY0015-9	Jamper	1	1
	J467	FFPEY0015-9	Jamper	1	1
	J468	FFPEY0015-9	Jamper	1	1
	J469	FFPEY0015-9	Jamper	1	1
	J470	FFPEY0015-9	Jamper	1	1
	J471	FFPEY0015-9	Jamper	1	1
	J472	FFPEY0015-9	Jamper	1	1
OTHERS					
	SW401	KSH0612AT	Light Touch Switch	1	1
	SW402	EVQPES05B	START Switch	1	1
	SW403	KSH0612AT	Light Touch Switch	1	1
	SW404	KSH0612AT	Light Touch Switch	1	1
	SW405	KSH0612AT	Light Touch Switch	1	1
	SW406	KSH0612AT	Light Touch Switch	1	1
	SW407	KSH0612AT	Light Touch Switch	1	1
	SW408	KSH0612AT	Light Touch Switch	1	1
	SW409	KSH0612AT	Light Touch Switch	1	1
	SW410	KSH0612AT	Light Touch Switch	1	1
	SW411	KSH0612AT	Light Touch Switch	1	1
	SW412	KSH0612AT	Light Touch Switch		1
	SW413	KSH0612AT	Light Touch Switch		1

3.5. Control Panel PC Board (FFPWB0668 for DP-150FP/FX)

Safety Mark	Ref. No.	Part Number	Description
			CAPACITORS
	C401	1CMS5-101TZ8	Electrolytic
	C402	ECJ2VF1E104Z	Chip
	C403	ECJ2VF1E104Z	Chip
	C404	ECJ2VF1E104Z	Chip
	C405	ECJ2VF1E104Z	Chip
	C406	ECJ1VB1H102K	Chip
	C407	ECUV1H101JCV	Chip
	C408	ECUV1H101JCV	Chip
	C409	ECJ1VB1H102K	Chip
	C410	ECUV1H101JCV	Chip
	C411	ECJ2VF1E104Z	Chip
	C412	ECJ1VB1H102K	Chip
	C413	ECJ2VF1E104Z	Chip
	C415	ECJ2VF1E104Z	Chip
			DIODES
	D402	LNJ301MPUJA	LED, Green
	D403	LNJ801LPDJA	LED, Orange
	D404	LNJ301MPUJA	LED, Green
	D410	LNJ801LPDJA	LED, Orange
	D412	LNJ801LPDJA	LED, Orange
	D418	LNJ301MPUJA	LED, Green
	D419	LNJ301MPUJA	LED, Green
	D420	LNJ301MPUJA	LED, Green
	D421	LNJ301MPUJA	LED, Green
	D422	LNJ301MPUJA	LED, Green
	D423	LNJ301MPUJA	LED, Green
	D424	LNJ301MPUJA	LED, Green
	D425	LNJ301MPUJA	LED, Green
	D426	LNJ301MPUJA	LED, Green
	D427	LNJ301MPUJA	LED, Green
	D428	LNJ301MPUJA	LED, Green
	D429	LNJ301MPUJA	LED, Green
	D430	MA165-(TA5)	Diode
	D431	MA165-(TA5)	Diode
	D432	MA165-(TA5)	Diode
	D433	MA165-(TA5)	Diode
			ICS
	IC401	TC74HC14AFEL	CMOS
	IC402	TC74HC165FEL	CMOS
	IC403	M66311FP250D	Driver
	IC404	M66311FP250D	Driver
			TRANSISTORS
	DT401	DTC143EKA146	Digital
	DT402	DTC114EKA146	Digital
	DT403	DTC114EKA146	Digital
			TRANSISTORS
	Q401	2SB1278TL2	Transistor
	Q402	2SB1278TL2	Transistor
	Q403	2SB1278TL2	Transistor
	Q404	2SB1278TL2	Transistor
			RESISTORS
	R401	ERJ6GEYJ102V	Chip
	R402	ERDS2TJ101T	Carbon
	R403	ERJ6GEYJ331V	Chip
	R404	ERDS2TJ101T	Carbon

Safety Mark	Ref. No.	Part Number	Description
	R405	ERJ6GEYJ102V	Chip
	R406	ERDS2TJ101T	Carbon
	R407	ERJ6GEYJ102V	Chip
	R408	ERDS2TJ101T	Carbon
	R409	ERJ6GEYJ331V	Chip
	R410	ERDS2TJ101T	Carbon
	R411	ERDS2TJ331T	Carbon
	R412	ERJ6GEYJ331V	Chip
	R413	ERJ6GEYJ103V	Chip
	R414	ERDS2TJ331T	Carbon
	R415	ERJ6GEYJ331V	Chip
	R416	ERJ6GEYJ103V	Chip
	R417	ERJ6GEYJ331V	Chip
	R418	ERJ6GEYJ331V	Chip
	R419	ERDS2TJ103T	Carbon
	R420	ERJ6GEYJ331V	Chip
	R421	ERJ6GEYJ331V	Chip
	R422	ERJ6GEYJ103V	Chip
	R423	ERJ6GEYJ103V	Chip
	R424	ERJ6GEYJ103V	Chip
	R425	ERDS2TJ103T	Carbon
	R426	ERJ6GEYJ103V	Chip
	R427	ERJ6GEYJ103V	Chip
	R428	ERJ6GEYJ103V	Chip
	R429	ERJ6GEYJ103V	Chip
	R430	ERDS2TJ103T	Carbon
	R431	ERDS2TJ680T	Carbon
	R432	ERDS2TJ680T	Carbon
	R433	ERDS2TJ680T	Carbon
	R434	ERDS2TJ680T	Carbon
	R435	ERDS2TJ680T	Carbon
	R436	ERDS2TJ680T	Carbon
	R437	ERDS2TJ680T	Carbon
	R438	ERDS2TJ680T	Carbon
	R439	ERDS2TJ680T	Carbon
	R440	ERDS2TJ680T	Carbon
	R441	ERDS2TJ680T	Carbon
	R442	ERDS2TJ680T	Carbon
	R443	ERJ6GEYJ102V	Chip
	R444	ERDS2TJ101T	Carbon
	R445	ERJ6GEYJ102V	Chip
	R446	ERJ6GEYJ102V	Chip
	R447	ERJ6GEYJ102V	Chip
	R448	ERJ6GEYJ102V	Chip
	R449	ERJ6GEYJ102V	Chip
	R450	ERJ6GEYJ102V	Chip
	R451	ERJ6GEYJ102V	Chip
	R452	ERJ6GEYJ102V	Chip
	R453	ERJ6GEYJ102V	Chip
	R454	ERJ6GEYJ682V	Chip
	R455	ERJ6GEYJ101V	Chip
	R456	ERJ6GEYJ102V	Chip
	R457	ERDS2TJ221T	Carbon
	R458	ERJ6GEYJ472V	Chip
	R459	ERJ6GEYJ102V	Chip
OTHERS			
	CN401	DF1114DP2DS	Connector

Safety Mark	Ref. No.	Part Number	Description
			OTHERS
	BL401	BL01RN1A63T6	Chip Bead Inductor
	BL402	BL01RN1A63T6	Chip Bead Inductor
	BL403	BL01RN1A63T6	Chip Bead Inductor
			OTHERS
	J401	FFPEY0015-9	Jamper
	J402	FFPEY0015-9	Jamper
	J403	FFPEY0015-9	Jamper
	J404	FFPEY0015-9	Jamper
	J405	FFPEY0015-9	Jamper
	J406	FFPEY0015-9	Jamper
	J407	FFPEY0015-9	Jamper
	J408	FFPEY0015-9	Jamper
	J409	FFPEY0015-9	Jamper
	J410	FFPEY0015-9	Jamper
	J411	FFPEY0015-9	Jamper
	J412	FFPEY0015-9	Jamper
	J413	FFPEY0015-9	Jamper
	J414	FFPEY0015-9	Jamper
	J415	FFPEY0015-9	Jamper
	J416	FFPEY0015-9	Jamper
	J417	FFPEY0015-9	Jamper
	J418	FFPEY0015-9	Jamper
	J419	FFPEY0015-9	Jamper
	J420	FFPEY0015-9	Jamper
	J421	FFPEY0015-9	Jamper
	J422	FFPEY0015-9	Jamper
	J423	FFPEY0015-9	Jamper
	J424	FFPEY0015-9	Jamper
	J425	FFPEY0015-9	Jamper
	J426	FFPEY0015-9	Jamper
	J427	FFPEY0015-9	Jamper
	J428	FFPEY0015-9	Jamper
	J429	FFPEY0015-9	Jamper
	J430	FFPEY0015-9	Jamper
	J431	FFPEY0015-9	Jamper
	J432	FFPEY0015-9	Jamper
	J433	FFPEY0015-9	Jamper
	J434	FFPEY0015-9	Jamper
	J435	FFPEY0015-9	Jamper
	J436	FFPEY0015-9	Jamper
	J437	FFPEY0015-9	Jamper
	J438	FFPEY0015-9	Jamper
	J439	FFPEY0015-9	Jamper
	J440	FFPEY0015-9	Jamper
	J441	FFPEY0015-9	Jamper
	J442	FFPEY0015-9	Jamper
	J443	FFPEY0015-9	Jamper
	J444	FFPEY0015-9	Jamper
	J445	FFPEY0015-9	Jamper
	J446	FFPEY0015-9	Jamper
	J447	FFPEY0015-9	Jamper
	J448	FFPEY0015-9	Jamper
	J449	FFPEY0015-9	Jamper
	J450	FFPEY0015-9	Jamper
	J451	FFPEY0015-9	Jamper
	J452	FFPEY0015-9	Jamper
	J453	FFPEY0015-9	Jamper

Safety Mark	Ref. No.	Part Number	Description
	J454	FFPEY0015-9	Jamper
	J455	FFPEY0015-9	Jamper
	J456	FFPEY0015-9	Jamper
	J457	FFPEY0015-9	Jamper
	J458	FFPEY0015-9	Jamper
	J459	FFPEY0015-9	Jamper
	J460	FFPEY0015-9	Jamper
	J461	FFPEY0015-9	Jamper
	J462	FFPEY0015-9	Jamper
	J463	FFPEY0015-9	Jamper
	J464	FFPEY0015-9	Jamper
	J465	FFPEY0015-9	Jamper
	J466	FFPEY0015-9	Jamper
	J467	FFPEY0015-9	Jamper
	J468	FFPEY0015-9	Jamper
	J469	FFPEY0015-9	Jamper
	J470	FFPEY0015-9	Jamper
	J471	FFPEY0015-9	Jamper
	J472	FFPEY0015-9	Jamper
			OTHERS
	LCD401	RCM2072R-A	LCD
			OTHERS
	SW401	KSH0612AT	Light Touch Switch
	SW402	EVQPES05B	START Switch
	SW403	KSH0612AT	Light Touch Switch
	SW404	KSH0612AT	Light Touch Switch
	SW405	KSH0612AT	Light Touch Switch
	SW406	KSH0612AT	Light Touch Switch
	SW407	KSH0612AT	Light Touch Switch
	SW408	KSH0612AT	Light Touch Switch
	SW409	KSH0612AT	Light Touch Switch
	SW410	KSH0612AT	Light Touch Switch
	SW411	KSH0612AT	Light Touch Switch
	SW412	KSH0612AT	Light Touch Switch
	SW414	KSH0612AT	Light Touch Switch
	SW415	KSH0612AT	Light Touch Switch
	SW416	KSH0612AT	Light Touch Switch
	SW417	KSH0612AT	Light Touch Switch
	SW418	KSH0612AT	Light Touch Switch
	SW419	KSH0612AT	Light Touch Switch
	SW420	KSH0612AT	Light Touch Switch
	SW421	KSH0612AT	Light Touch Switch
	SW422	KSH0612AT	Light Touch Switch
	SW423	KSH0612AT	Light Touch Switch
	SW424	KSH0612AT	Light Touch Switch
	SW425	KSH0612AT	Light Touch Switch
	SW426	KSH0612AT	Light Touch Switch
	SW427	KSH0612AT	Light Touch Switch
	SW428	KSH0612AT	Light Touch Switch
	SW429	KSH0612AT	Light Touch Switch
	SW430	KSH0612AT	Light Touch Switch
	SW431	KSH0612AT	Light Touch Switch
	SW432	KSH0612AT	Light Touch Switch
	SW433	KSH0612AT	Light Touch Switch

3.6. CCD PC Board (FFPWB0666)

Safety Mark	Ref. No.	Part Number	Description
			CAPACITORS
	C801	ECUV1H102ZFV	Chip
	C802	ECUV1H102ZFV	Chip
	C803	ECUV1H102ZFV	Chip
	C804	ECUV1H102ZFV	Chip
	C807	ECJ1VF1E104Z	Chip
	C808	ECJ1VF1E104Z	Chip
	C809	ECJ1VF1E104Z	Chip
	C810	ECJ1VF1E104Z	Chip
	C811	ECJ1VF1E104Z	Chip
	C812	ECJ1VF1E104Z	Chip
	C813	ECJ1VF1E104Z	Chip
	C814	ECJ1VF1E104Z	Chip
	C815	ECJ1VF1E104Z	Chip
	C817	ECEA1VKA470Q	Electrolytic
	C818	ECEA1VKA100B	Electrolytic
	C819	ECEA1VKA100B	Electrolytic
	C820	ECJ1VF1C104Z	Chip
	C821	ECJ1VF1C104Z	Chip
	C822	ECJ1VF1C104Z	Chip
	C823	ECJ1VF1C104Z	Chip
	C824	ECJ1VF1C104Z	Chip
	C825	ECJ1VF1C104Z	Chip
	C828	ECJ1VF1C104Z	Chip
	C829	ECJ1VF1C104Z	Chip
	C830	ECJ1VF1C104Z	Chip
	C831	ECEA1CKA100B	Electrolytic
	C832	ECEA1CKA100B	Electrolytic
	C833	ECEA1CKA100B	Electrolytic
	C836	ECUV1H220JCV	Chip
	C837	ECUV1H220JCV	Chip
	C838	ECUV1H220JCV	Chip
	C839	ECUV1H220JCV	Chip
	C840	ECUV1H100DCV	Chip
	C841	ECEA1CKA101B	Electrolytic
	C842	ECUV1H471JCV	Chip
	C843	ECUV1H471JCV	Chip
	C844	ECJ1VB1H222K	Chip
			DIODES
	DA801	1SS396	Diode
	DA802	1SS396	Diode
	DA803	1SS396	Diode
	DA804	1SS396	Diode
			DIODE
	ZD801	MA3051MTX	Zener
			ICS
	IC801	UPD3739D	CCD
	IC802	LM6172IMX	OP Amp
	IC803	LM6172IMX	OP Amp
	IC804	T7VHCT245FEL	CMOS
	IC805	M62354FP	D/A Convertor
	IC807	TC74AC04FT2	TTL
	IC808	TC74AC04FT2	TTL
			TRANSISTORS
	Q801	2SA1022-(TX)	Transistor
	Q802	2SA1022-(TX)	Transistor

Safety Mark	Ref. No.	Part Number	Description
	Q803	2SC2295-(TX)	Transistor
	Q804	2SC2295-(TX)	Transistor
			RESISTORS
	R801	ERJ3GEYJ201V	Chip
	R802	ERJ3GEYJ201V	Chip
	R803	ERJ3GEYJ151V	Chip
	R804	ERJ3GEYJ151V	Chip
	R805	ERJ3GEYJ470V	Chip
	R806	ERJ3GEYJ470V	Chip
	R807	ERJ3GEYJ470V	Chip
	R808	ERJ3GEYJ470V	Chip
	R809	ERJ3GSYJ2R2V	Chip
	R810	ERJ3GSYJ2R2V	Chip
	R811	ERJ3GSYJ2R2V	Chip
	R812	ERJ3GSYJ2R2V	Chip
	R813	ERJ3GSYJ2R2V	Chip
	R814	ERJ3GEYJ102V	Chip
	R815	ERJ3GEYJ102V	Chip
	R826	ERJ3GEYJ472V	Chip
	R827	ERJ3GEYJ472V	Chip
	R828	ERJ3EKF2000V	Chip
	R829	ERJ3EKF2000V	Chip
	R830	ERJ3EKF2000V	Chip
	R831	ERJ3EKF2000V	Chip
	R832	ERJ3EKF1201V	Chip
	R833	ERJ3EKF1201V	Chip
	R834	ERJ3GEY0R00V	Chip
	R835	ERJ3EKF1201V	Chip
	R836	ERJ3EKF1201V	Chip
	R837	ERJ3GEY0R00V	Chip
	R838	ERJ3GEYJ101V	Chip
	R839	ERJ3GEYJ101V	Chip
	R840	ERJ3GEYJ101V	Chip
	R841	ERJ3GEYJ101V	Chip
	R842	ERJ3GEYJ750V	Chip
	R843	ERJ3GEYJ750V	Chip
	R844	ERJ3GEYJ750V	Chip
	R845	ERJ3GEYJ750V	Chip
	R850	ERJ3GEYJ122V	Chip
	R851	ERJ8GEY0R00V	Chip
	R861	ERJ3GEYJ220V	Chip
	R862	ERJ3GEYJ220V	Chip
	R863	ERJ3GEYJ220V	Chip
	R864	ERJ3GEYJ220V	Chip
	R865	ERJ3GEYJ220V	Chip
	R866	ERJ3GEYJ103V	Chip
			RESISTORS
	RA803	MNR14EABJ103	Resistor Array
	RA804	MNR14EABJ103	Resistor Array
			OTHERS
	CN801	20FE-BT-VK-N	Connector
			OTHERS
	BL801	BLM21P221SGT	Chip Bead Inductor
	BL802	BLM21P221SGT	Chip Bead Inductor
	BL803	BLM21P221SGT	Chip Bead Inductor
	BL804	BLM21P221SGT	Chip Bead Inductor
	BL805	BLM21P221SGT	Chip Bead Inductor
	BL808	BLM11B121SDT	Chip Bead Inductor

Safety Mark	Ref. No.	Part Number	Description
	BL809	BLM11B121SDT	Chip Bead Inductor
	BL810	ERJ3GEYJ101V	Jamper
	BL811	ERJ3GEYJ101V	Jamper
	BL812	ERJ3GEYJ101V	Jamper
	BL813	BLM11B121SDT	Chip Bead Inductor
	BL814	ERJ3GEYJ331V	Jamper
	BL815	ERJ3GEYJ331V	Jamper
	BL816	ERJ3GEYJ331V	Jamper
	BL817	ERJ3GEYJ331V	Jamper

3.7. LCE PC Board (DZEP000441)

Safety Mark	Ref. No.	Part Number	Description
			CAPACITORS
	C1	ECQE2474KF3	Polyester Film
	C2	ECEA1HKA220B	Electrolytic
	C3	ECEA1CKA220B	Electrolytic
	C4	ECEA1CN221XB	Electrolytic
	C8	ECQV1H225JL3	Polyester Film
	C9	ECEA1HN220UB	Electrolytic
	C10	ECQV1H105JL3	Polyester Film
	C12	ECQV1H683JL3	Polyester Film
	C18	ECQB2472KF3	Polyester Film
	C19	ECQB2472KF3	Polyester Film
	C21	ECQB1H473JF3	Polyester Film
	C22	ECQB1H473JF3	Polyester Film
			DIODES
	D1	1N4531T-77	Diode
	D2	1N4531T-77	Diode
	D4	1SR139400T32	Diode
	D5	1SR139400T32	Diode
	D6	1SR139400T32	Diode
	D7	1SR139400T32	Diode
	D8	RD39ES-T1	Zener
	D9	RD6.2ES-T1AB1	Zener
	D10	RD3.6ES-T1	Zener
	D11	RD3.6ES-T1	Zener
	D12	RD6.2ES-T1	Zener
	D13	RD6.2ES-T1	Zener
	D16	RD3.6ES-T1	Zener
	D17	RD3.6ES-T1	Zener
			ICS
	IC1	THS-56F	Current Dete Sensor
	IC2	TC74HC00AP	CMOS
			TRANSISTORS
	Q2	DTC143ZSATP	Chip Digital
	Q3	DTC143ZSATP	Chip Digital
	Q4	DTC143ZSATP	Chip Digital
	Q7	2SD1266-P	Transistor
	Q8	2SD1266-P	Transistor
			RESISTORS
	R1	ERDS2TJ103T	Carbon
	R2	ERDS2TJ823T	Carbon
	R3	ERDS2TJ823T	Carbon
	R4	ERDS2TJ222T	Carbon
	R5	ERDS2TJ392T	Carbon
	R10	TCW0.5	Metal Oxide
	R13	EROS2TKF2000	Metal Oxide
	R14	ERG1SJU222V	Metal Oxide
	R15	ERG1SJ122P	Metal Oxide
	R18	ERDS2TJ912T	Carbon
	R19	ERDS2TJ242T	Carbon
	R20	EROS2TKF2000	Metal Oxide
	R21	ERDS2TJ102T	Carbon
	R27	ERDS2TJ104T	Carbon
	R32	TCW0.5	Metal Oxide
	R34	TCW0.5	Metal Oxide
	R35	TCW0.5	Metal Oxide

Safety Mark	Ref. No.	Part Number	Description
			OTHERS
	CNJ20	52830-6645	Connector
	CNJ21	52830-6245	Connector
	CNJ23	52830-6245	Connector
	CNP25	B15B-PH-K-M(M)	Connector
			OTHERS
	JP2	TCW0.5	Jamper
	JP7	TCW0.5	Jamper
	JP8	TCW0.5	Jamper
	JP10	TCW0.5	Jamper
	JP26	TCW0.5	Jamper
	JP27	TCW0.5	Jamper
			OTHERS
	L1	FL05RD200AZ	Inductor
	L2	FL05RD200AZ	Inductor
	L3	LHL08TB272J	Inductor
	L4	LHL08TB272J	Inductor
	L5	TCW0.5	Jamper
	L6	TCW0.5	Jamper
	L8	TCW0.5	Jamper
	L9	TCW0.5	Jamper
	L11	FL05RD200AZ	Inductor
	L12	FL05RD200AZ	Inductor
			OTHERS
	NF1	UF1717V282Y0R5	Noise Filer
			OTHERS
	PC1	PC817B	Photo Coupler
	PC4	PC817B	Photo Coupler
			OTHERS
	RL2	ATXD20428	Relay
	RL4	PS7141-1A-H	Photo Relay
			OTHERS
	T1	95031	Line Transformer
			OTHERS
	TB1	TW-4BS-2K	Earth Rug
			OTHERS
	VA1	RA-391M-V6-Y-2	Surge Absorber
	VA2	RA-302M-V7-Y-5M	Surge Absorber
	VA3	RA-302M-V7-Y-5M	Surge Absorber
	VA4	NV150D14	Surge Absorber

3.8. Main LVPS PC Board (FFPWB06691 for North America)

Safety Mark	Ref. No.	Part Number	Description
			CATACITORS
	C1	ECQU2A474ML	Polyester Film
	C2	CS13E2GA332	Ceramic
	C3	CS13E2GA332	Ceramic
	C4	ECQU2A474ML	Polyester Film
	C5	CS11E2GA222	Ceramic
	C6	CS11E2GA222	Ceramic
	C7	CS11E2GA222	Ceramic
	C8	2DSXC331AS	Electrolytic
	C9	2DSXC331AS	Electrolytic
	C10	GRM40B104K50PT	Chip
	C11	DE75R471K1KT	Ceramic
	C12	DE75R471K1KT	Ceramic
	C14	1HYXF101TA	Electrolytic
	C15	GRM40B104K50PT	Chip
	C16	ECUV1H561JCX	Chip
	C17	GRM40B474K16PT	Chip
	C18	GRM40B104K50PT	Chip
	C19	GRM40B104K50PT	Chip
	C20	GRM40B103K50PT	Chip
	C21	2GMW104KEFTL	Electrolytic
	C22	ECQU2A104MG	Polyester Film
	C23	GRM40B104K50PT	Chip
	C51	ECKRHT471KC	Ceramic
	C52	1VZL102KC	Electrolytic
	C53	1VZL102KC	Electrolytic
	C56	GRM40B104K50PT	Chip
	C57	GRM40B104K50PT	Chip
	C58	GRM40B104K50PT	Chip
	C59	1HYXF101TA	Electrolytic
	C60	1HYXF101TA	Electrolytic
	C61	GRM40B104K50PT	Chip
	C62	1HYXF101TA	Electrolytic
	C63	1HYXF101TA	Electrolytic
	C64	GRM40B104K50PT	Chip
	C65	EEUFC1V102E	Electrolytic
	C66	GRM40B104K50PT	Chip
	C67	1VZL102KC	Electrolytic
	C69	GRM40B104K50PT	Chip
	C70	GRM40B104K50PT	Chip
	C71	1VZL102KC	Electrolytic
	C73	GRM40B104K50PT	Chip
	C75	1HYXF1R0TA	Electrolytic
	C76	1HYXF100TA	Electrolytic
	C77	1AYXG331TA	Electrolytic
	C78	1AYXG101TA	Electrolytic
	C79	GRM40B104K50PT	Chip
	C80	1HYXF1R0TA	Electrolytic
	C81	CD12E2GA222	Chip
			DIODES
	D1	AG01AV0	Diode
	D3	D1NL20U4070	Diode
	D4	D1NL20U4070	Diode
	D5	D1NL20U4070	Diode
	D51	FMX32S	Diode
	D52	EL1ZV0	Diode

Safety Mark	Ref. No.	Part Number	Description
	D53	1SS133T-77	Diode
	D54	EL1ZV0	Diode
	D55	EL1ZV0	Diode
	D56	1SS133T-77	Diode
	D57	FMB24M023108	Diode
	D58	FMB24M023108	Diode
	D59	1SS133T-77	Diode
	D60	1SS133T-77	Diode
	D61	EL1ZV0	Diode
	D62	1SS133T-77	Diode
	D63	1SS133T-77	Diode
			DIODE
	DB1	U6SBA60	Bridge Diode
			DIODES
	ZD1	RD33FT8	Zener
	ZD2	RD33FT8	Zener
	ZD3	MTZJ27DT77	Zener
	ZD51	MTZJ8.2CT77	Zener
	ZD52	MTZJ27DT77	Zener
	ZD53	MTZJ5.1BT77	Zener
	ZD54	MTZJ5.1BT77	Zener
	ZD55	MTZJ5.1BT77	Zener
	ZR1	ERZV10D271	Zener
	ZR2	ERZV10D271	Zener
	ZR3	ERZV10D271	Zener
	ZR4	ERZV10D271	Zener
			ICS
	IC1	FA5311BP	PWM Control
	IC2	MIP0253SPSCF	Power Device
	IC3	UPC7812AHF	Regulater
	IC4	UPC78M12AHF	Regulater
	IC5	PQ1CG2032FZ	DC/DC Convertor
	IC6	PQ1CG2032FZ	DC/DC Convertor
	IC7	UPC1093JT	Regulater
	IC8	UPC1093JT	Regulater
			TRANSISTORS
	Q1	2SK2698	Transistor
	Q2	2SB1188TQR	Transistor
	Q3	2SJ304	MOS FET
	Q4	2SJ304	MOS FET
	Q5	2SD602ATX	Transistor
			RESISTORS
	R1	ERDS1TJ474T	Carbon
	R2	ERJ6GEYJ102V	Chip
	R3	ERG2SJ103H	Metal Oxide
	R4	ERG2SJ103H	Metal Oxide
	R5	ERJ6GEYJ561V	Chip
	R6	ERJ6GEYJ473V	Chip
	R7	ERJ6GEYJ473V	Chip
	R8	ERDS1TJ121T	Carbon
	R9	ERF5EKR10S	Wirewound
	R10	ERG2SJ180H	Metal Oxide
	R11	ERG2SJ180H	Metal Oxide
	R12	ERJ6GEYJ103V	Chip
	R13	ERJ6GEYJ101V	Chip
	R14	ERDS1TJ510T	Carbon
	R16	ERG2SJ104H	Metal Oxide
	R18	ERDS1TJ121T	Carbon

Safety Mark	Ref. No.	Part Number	Description
	R19	ERDS1TJ121T	Carbon
	R20	ERJ6ENF4871V	Chip
	R21	ERJ6GEYJ222V	Chip
	R23	ERJ6GEY0R00V	Chip
	R24	ERJ6GEYJ153V	Chip
	R25	ERDS2TJ823T	Carbon
	R26	ERDS2TJ823T	Carbon
	R28	ERDS1TJ101T	Carbon
	R29	ERG1SJ220P	Metal Oxide
	R30	ERJ6GEYJ153V	Chip
	R31	ERQ14AZJ1R0P	Fuse Resistor
	R51	ERX2SJ6R8H	Metal Oxide
	R52	ERX2SJ6R8H	Metal Oxide
	R53	ERJ6GEYJ103V	Chip
	R54	ERJ6GEYJ333V	Chip
	R55	ERJ6GEYJ103V	Chip
	R56	ERJ6GEYJ333V	Chip
	R57	ERDS1TJ102T	Carbon
	R58	ERDS1TJ102T	Carbon
	R59	ERJ6GEYJ103V	Chip
	R60	ERJ6ENF2941V	Chip
	R61	ERJ6ENF1001V	Chip
	R62	ERJ6ENF1651V	Chip
	R63	ERJ6ENF1001V	Chip
	R64	ERJ6GEYJ102V	Chip
	R65	ERJ6GEYJ102V	Chip
	R66	ERJ6ENF5602V	Chip
	R67	ERJ6ENF6491V	Chip
	R68	ERJ6GEYJ332V	Chip
	R69	ERJ6GEYJ102V	Chip
	R70	ERJ6GEYJ183V	Chip
	R71	ERJ6GEYJ273V	Chip
	R72	ERJ6GEYJ273V	Chip
	R73	ERJ6GEYJ181V	Chip
	R74	ERJ6GEYJ102V	Chip
	R75	ERJ6GEYJ101V	Chip
	R76	ERJ6ENF2801V	Chip
	R77	ERJ6ENF2701V	Chip
	R78	ERJ6GEYJ101V	Chip
		RESISTORS	
	RF1	ERU5TAJ100	Fuse Resistor
		OTHERS	
	CN1	TP82224-31	Connector
	CN2	TP82224-31	Connector
	CN3	5566-02A210	Connector
	CN5	B4P-VH	Connector
	CN6	DF315P2DSA	Connector
	CN7	DF35P2DSA	Connector
	CN8	B2P3-VH	Connector
		OTHERS	
	BL1	HF55BTS3545B	Chip Bead Inductor
	BL5	HF55BTS3545B	Chip Bead Inductor
	BL6	HF55BTS3545B	Chip Bead Inductor
		OTHERS	
	J1	FFPEY0015-9	Jamper
	J5	RJP06TU	Jamper
	J6	RJP06TU	Jamper
	J7	FFPEY0015-9	Jamper

Safety Mark	Ref. No.	Part Number	Description
	J8	RJP06TU	Jamper
	J9	RJP06TU	Jamper
	J10	RJP06TU	Jamper
	J11	FFPEY0015-9	Jamper
	J12	FFPEY0015-9	Jamper
	J13	FFPEY0015-9	Jamper
	J14	FFPEY0015-9	Jamper
	J15	FFPEY0015-9	Jamper
	J16	FFPEY0015-9	Jamper
	J17	FFPEY0015-9	Jamper
	J18	FFPEY0015-9	Jamper
	J19	FFPEY0015-9	Jamper
	J20	FFPEY0015-9	Jamper
	J21	FFPEY0015-9	Jamper
	J22	FFPEY0015-9	Jamper
	J23	FFPEY0015-9	Jamper
	J24	FFPEY0015-9	Jamper
	J25	FFPEY0015-9	Jamper
	J26	FFPEY0015-9	Jamper
	J27	FFPEY0015-9	Jamper
	J28	FFPEY0015-9	Jamper
	J29	FFPEY0015-9	Jamper
	J30	FFPEY0015-9	Jamper
	J31	FFPEY0015-9	Jamper
	J32	FFPEY0015-9	Jamper
	J33	FFPEY0015-9	Jamper
	J34	FFPEY0015-9	Jamper
	J35	FFPEY0015-9	Jamper
	J36	FFPEY0015-9	Jamper
	J37	FFPEY0015-9	Jamper
	J38	FFPEY0015-9	Jamper
	J39	FFPEY0015-9	Jamper
	J40	FFPEY0015-9	Jamper
	J41	FFPEY0015-9	Jamper
	J42	FFPEY0015-9	Jamper
	J43	FFPEY0015-9	Jamper
	J44	FFPEY0015-9	Jamper
	J45	FFPEY0015-9	Jamper
	J46	RJP06TU	Jamper
	J47	RJP06TU	Jamper
	J48	FFPEY0015-9	Jamper
	J49	FFPEY0015-9	Jamper
	J50	RJP06TU	Jamper
	J51	FFPEY0015-9	Jamper
	J52	FFPEY0015-9	Jamper
			OTHERS
	F1	XBA1F150NU14	Fuse
	F2	XBA1C63NU141	Fuse
			OTHERS
	FG1	TP00370-41	Earth Tag
	FG2	TP00370-41	Earth Tag
	FG3	TP00370-41	Earth Tag
			OTHERS
	L1	TF3524V102Y	Line Filter
	L3	HF2836-802Y	Line Filter
	L4	SFT12-60-05	Switching Transformer
	L5	TSL0808RA100	Choek Coil
	L6	TSL1315S101	Choek Coil

Safety Mark	Ref. No.	Part Number	Description
	L7	TSL1315S101	Choek Coil
	L8	EL0305RA100	Choek Coil
			OTHERS
	PC1	PC817X5	Photo Coupler
	PC2	PC817X5	Photo Coupler
	PC3	PC817X5	Photo Coupler
	PC4	PC81411NSZ	Photo Coupler
	PC5	TLP665GS	Photo Coupler
	PC6	PC817X5	Photo Coupler
	PC7	PC817X5	Photo Coupler
			OTHERS
	SA1	SA301LA05F25	Surge Absorber
	SA2	SA302MA05F25	Surge Absorber
			OTHERS
	SR1	TF861ILF625	SCR
			OTHERS
⚠	SW1	RS1ABC11	Power Switch
⚠	SW2	DE2LCALB	Door Switch
⚠	SW3	DE3LCALB	Laser Safety Switch
⚠	SW4	DE3LCALB	Laser Safety Switch
			OTHERS
	T1	SRW35ECT57H	Switching Transformer
	T2	SRW19EST30V	Switching Transformer
			OTHER
	TP1	RT01T1.0B	Test Pin
			OTHER
	TR1	TM1641ILF625	Triac

3.9. Main LVPS PC Board (FFPWB06692, DP-150 except North America)

Safety Mark	Ref. No.	Part Number	Description
			CAPACITORS
	C1	ECQU2A105ML	Polyester Film
	C2	CS13E2GA332	Ceramic
	C3	CS13E2GA332	Ceramic
	C4	ECQU2A105ML	Polyester Film
	C5	CS11E2GA222	Ceramic
	C6	CS11E2GA222	Ceramic
	C7	CS11E2GA222	Ceramic
	C8	2GSXC101AS	Electrolytic
	C9	2GSXC101AS	Electrolytic
	C10	GRM40B104K50PT	Chip
	C11	DE75R471K1KT	Ceramic
	C12	DE75R221K1KT	Ceramic
	C14	1HYXF101TA	Electrolytic
	C15	GRM40B104K50PT	Chip
	C16	ECUV1H561JCX	Chip
	C17	GRM40B474K16PT	Chip
	C18	GRM40B104K50PT	Chip
	C19	GRM40B104K50PT	Chip
	C20	GRM40B103K50PT	Chip
	C21	2JMW104KEFTJ	Electrolytic
	C22	ECQU2A474ML	Polyester Film
	C23	GRM40B104K50PT	Chip
	C51	ECKRHT471KC	Ceramic
	C52	1VZL102KC	Electrolytic
	C53	1VZL102KC	Electrolytic
	C56	GRM40B104K50PT	Chip
	C57	GRM40B104K50PT	Chip
	C58	GRM40B104K50PT	Chip
	C59	1HYXF101TA	Electrolytic
	C60	1HYXF101TA	Electrolytic
	C61	GRM40B104K50PT	Chip
	C62	1HYXF101TA	Electrolytic
	C63	1HYXF101TA	Electrolytic
	C64	GRM40B104K50PT	Chip
	C65	EEUFC1V102E	Electrolytic
	C66	GRM40B104K50PT	Chip
	C67	1VZL102KC	Electrolytic
	C69	GRM40B104K50PT	Chip
	C70	GRM40B104K50PT	Chip
	C71	1VZL102KC	Electrolytic
	C73	GRM40B104K50PT	Chip
	C75	1HYXF1R0TA	Electrolytic
	C76	1HYXF100TA	Electrolytic
	C77	1AYXG331TA	Electrolytic
	C78	1AYXG101TA	Electrolytic
	C79	GRM40B104K50PT	Chip
	C80	1HYXF1R0TA	Electrolytic
	C81	CD12E2GA222	Chip
			DIODES
	D1	EG01CV0	Diode
	D3	D1NL20U4070	Diode
	D4	D1NL20U4070	Diode
	D5	D1NL20U4070	Diode
	D51	FMX32S	Diode
	D52	EL1ZV0	Diode

Safety Mark	Ref. No.	Part Number	Description
	D53	1SS133T-77	Diode
	D54	EL1ZV0	Diode
	D55	EL1ZV0	Diode
	D56	1SS133T-77	Diode
	D57	FMB24M023108	Diode
	D58	FMB24M023108	Diode
	D59	1SS133T-77	Diode
	D60	1SS133T-77	Diode
	D61	EL1ZV0	Diode
	D62	1SS133T-77	Diode
	D63	1SS133T-77	Diode
		DIODE	
	DB1	U6SBA60	Bridge Diode
		DIODES	
	ZD1	RD75FT8	Zener
	ZD2	RD75FT8	Zener
	ZD3	MTZJ27DT77	Zener
	ZD51	MTZJ8.2CT77	Zener
	ZD52	MTZJ27DT77	Zener
	ZD53	MTZJ5.1BT77	Zener
	ZD54	MTZJ5.1BT77	Zener
	ZD55	MTZJ5.1BT77	Zener
	ZR1	ERZV10D511	Zener
	ZR2	ERZV10D511	Zener
	ZR3	ERZV10D511	Zener
	ZR4	ERZV10D511	Zener
		ICS	
	IC1	FA5311BP	PWM Control
	IC2	MIP0253SPSCF	Power Device
	IC3	UPC7812AHF	Regulater
	IC4	UPC78M12AHF	Regulater
	IC5	PQ1CG2032FZ	DC/DC Convertor
	IC6	PQ1CG2032FZ	DC/DC Convertor
	IC7	UPC1093JT	Regulater
	IC8	UPC1093JT	Regulater
		TRANSISTORS	
	Q1	2SK2749	Transistor
	Q2	2SB1188TQR	Transistor
	Q3	2SJ304	MOS FET
	Q4	2SJ304	MOS FET
	Q5	2SD602ATX	Transistor
		RESISTORS	
	R1	ERDS1TJ474T	Carbon
	R2	ERJ6GEYJ102V	Chip
	R3	ERG2SJ273H	Metal Oxide
	R4	ERG2SJ273H	Metal Oxide
	R5	ERJ6GEYJ561V	Chip
	R7	ERJ6GEYJ473V	Chip
	R8	ERDS1TJ121T	Carbon
	R9	ERF5EKR22S	Wirewound
	R10	ERG2SJ180H	Metal Oxide
	R11	ERG2SJ180H	Metal Oxide
	R12	ERJ6GEYJ103V	Chip
	R13	ERJ6GEYJ101V	Chip
	R14	ERDS1TJ510T	Carbon
	R16	ERG2SJ104H	Metal Oxide
	R18	ERDS1TJ121T	Carbon
	R19	ERDS1TJ121T	Carbon

Safety Mark	Ref. No.	Part Number	Description
	R20	ERJ6ENF4871V	Chip
	R21	ERJ6GEYJ222V	Chip
	R23	ERJ6GEY0R00V	Chip
	R24	ERJ6GEYJ153V	Chip
	R25	ERDS2TJ184T	Carbon
	R26	ERDS2TJ184T	Carbon
	R28	ERDS1TJ221T	Carbon
	R29	ERG1SJ220P	Metal Oxide
	R30	ERJ6GEYJ153V	Chip
	R31	ERQ14AZJ1R0P	Fuse Resistor
	R51	ERX2SJ6R8H	Metal Oxide
	R52	ERX2SJ6R8H	Metal Oxide
	R53	ERJ6GEYJ103V	Chip
	R54	ERJ6GEYJ333V	Chip
	R55	ERJ6GEYJ103V	Chip
	R56	ERJ6GEYJ333V	Chip
	R57	ERDS1TJ102T	Carbon
	R58	ERDS1TJ102T	Carbon
	R59	ERJ6GEYJ103V	Chip
	R6	ERJ6GEYJ473V	Chip
	R60	ERJ6ENF2941V	Chip
	R61	ERJ6ENF1001V	Chip
	R62	ERJ6ENF1651V	Chip
	R63	ERJ6ENF1001V	Chip
	R64	ERJ6GEYJ102V	Chip
	R65	ERJ6GEYJ102V	Chip
	R66	ERJ6ENF5602V	Chip
	R67	ERJ6ENF6491V	Chip
	R68	ERJ6GEYJ332V	Chip
	R69	ERJ6GEYJ102V	Chip
	R70	ERJ6GEYJ183V	Chip
	R71	ERJ6GEYJ273V	Chip
	R72	ERJ6GEYJ273V	Chip
	R73	ERJ6GEYJ181V	Chip
	R74	ERJ6GEYJ102V	Chip
	R75	ERJ6GEYJ101V	Chip
	R76	ERJ6ENF2801V	Chip
	R77	ERJ6ENF2701V	Chip
	R78	ERJ6GEYJ101V	Chip
			RESISTOR
	RF1	ERU5TAJ220	Fuse Resistor
			OTHERS
	CN1	TP82224-31	Connector
	CN2	TP82224-31	Connector
	CN3	5566-02A210	Connector
	CN4	B2PVH	Connector
	CN5	B4P-VH	Connector
	CN6	DF315P2DSA	Connector
	CN7	DF35P2DSA	Connector
	CN8	B2P3-VH	Connector
			OTHERS
	BL1	HF55BTS3545B	Chip Bead Inductor
	BL5	HF55BTS3545B	Chip Bead Inductor
	BL6	HF55BTS3545B	Chip Bead Inductor
			OTHERS
	F1	XBA2F80NU2	Fuse
	F2	XBA2C31TR0	Fuse

Safety Mark	Ref. No.	Part Number	Description
			OTHERS
	FG1	TP00370-41	Earth Tag
	FG2	TP00370-41	Earth Tag
	FG3	TP00370-41	Earth Tag
			OTHERS
	J1	FFPEY0015-9	Jamper
	J5	RJP06TU	Jamper
	J6	RJP06TU	Jamper
	J7	FFPEY0015-9	Jamper
	J8	RJP06TU	Jamper
	J9	RJP06TU	Jamper
	J10	RJP06TU	Jamper
	J11	FFPEY0015-9	Jamper
	J12	FFPEY0015-9	Jamper
	J13	FFPEY0015-9	Jamper
	J14	FFPEY0015-9	Jamper
	J15	FFPEY0015-9	Jamper
	J16	FFPEY0015-9	Jamper
	J17	FFPEY0015-9	Jamper
	J18	FFPEY0015-9	Jamper
	J19	FFPEY0015-9	Jamper
	J20	FFPEY0015-9	Jamper
	J21	FFPEY0015-9	Jamper
	J22	FFPEY0015-9	Jamper
	J23	FFPEY0015-9	Jamper
	J24	FFPEY0015-9	Jamper
	J25	FFPEY0015-9	Jamper
	J26	FFPEY0015-9	Jamper
	J27	FFPEY0015-9	Jamper
	J28	FFPEY0015-9	Jamper
	J29	FFPEY0015-9	Jamper
	J30	FFPEY0015-9	Jamper
	J31	FFPEY0015-9	Jamper
	J32	FFPEY0015-9	Jamper
	J33	FFPEY0015-9	Jamper
	J34	FFPEY0015-9	Jamper
	J35	FFPEY0015-9	Jamper
	J36	FFPEY0015-9	Jamper
	J37	FFPEY0015-9	Jamper
	J38	FFPEY0015-9	Jamper
	J39	FFPEY0015-9	Jamper
	J40	FFPEY0015-9	Jamper
	J41	FFPEY0015-9	Jamper
	J42	FFPEY0015-9	Jamper
	J43	FFPEY0015-9	Jamper
	J44	FFPEY0015-9	Jamper
	J45	FFPEY0015-9	Jamper
	J46	RJP06TU	Jamper
	J47	RJP06TU	Jamper
	J48	FFPEY0015-9	Jamper
	J49	FFPEY0015-9	Jamper
	J50	RJP06TU	Jamper
	J51	FFPEY0015-9	Jamper
	J52	FFPEY0015-9	Jamper
			OTHERS
	L1	TF3524V102Y	Line Filter
	L3	HF2836-253Y	Line Filter
	L5	TSL0808RA100	Choek Coil

Safety Mark	Ref. No.	Part Number	Description
	L6	TSL1315S101	Choek Coil
	L7	TSL1315S101	Choek Coil
	L8	EL0305RA100	Choek Coil
			OTHERS
	PC1	PC123FY8	Photo Coupler
	PC2	PC123FY8	Photo Coupler
	PC3	PC123FY8	Photo Coupler
	PC4	TLP620GRD4	Photo Coupler
	PC5	TLP665JD4	Photo Coupler
	PC6	PC123FY8	Photo Coupler
	PC7	PC123FY8	Photo Coupler
			OTHERS
	SA1	SA501MA05F25	Surge Absorber
	SA2	SA302MA05F25	Surge Absorber
	SR1	TF861ILF625	SCR
			OTHERS
⚠	SW1	RS1ABC11	Power Switch
⚠	SW2	DE2LCALB	Door Switch
⚠	SW3	DE3LCALB	Laser Safety Switch
⚠	SW4	DE3LCALB	Laser Safety Switch
			OTHERS
	T1	SRW35ECT58H	Switching Transformer
	T2	SRW19EST30V	Switching Transformer
			OTHERS
	TP1	RT01T1.0B	Test Pin
			OTHERS
	TR1	TM861ILF625	Triac

3.10. Main LVPS PC Board (FFPWB06694, DP-150A/P/FP except North America)

Safety Mark	Ref. No.	Part Number	Description
			CAPACITORS
	C1	ECQU2A474ML	Polyester Film
	C2	CS13E2GA332	Ceramic
	C3	CS13E2GA332	Ceramic
	C4	ECQU2A474ML	Polyester Film
	C5	CS11E2GA222	Ceramic
	C6	CS11E2GA222	Ceramic
	C7	CS11E2GA222	Ceramic
	C8	2GSXC101AS	Electrolytic
	C9	2GSXC101AS	Electrolytic
	C10	GRM40B104K50PT	Chip
	C11	DE75R471K1KT	Ceramic
	C12	DE75R221K1KT	Ceramic
	C14	1HYXF101TA	Electrolytic
	C15	GRM40B104K50PT	Chip
	C16	ECUV1H561JCX	Chip
	C17	GRM40B474K16PT	Chip
	C18	GRM40B104K50PT	Chip
	C19	GRM40B104K50PT	Chip
	C20	GRM40B103K50PT	Chip
	C21	2JMW104KEFTJ	Electrolytic
	C22	ECQU2A474ML	Polyester Film
	C23	GRM40B104K50PT	Chip
	C51	ECKRHT471KC	Ceramic
	C52	1VZL102KC	Electrolytic
	C53	1VZL102KC	Electrolytic
	C56	GRM40B104K50PT	Chip
	C57	GRM40B104K50PT	Chip
	C58	GRM40B104K50PT	Chip
	C59	1HYXF101TA	Electrolytic
	C60	1HYXF101TA	Electrolytic
	C61	GRM40B104K50PT	Chip
	C62	1HYXF101TA	Electrolytic
	C63	1HYXF101TA	Electrolytic
	C64	GRM40B104K50PT	Chip
	C65	EEUFC1V102E	Electrolytic
	C66	GRM40B104K50PT	Chip
	C67	1VZL102KC	Electrolytic
	C69	GRM40B104K50PT	Chip
	C70	GRM40B104K50PT	Chip
	C71	1VZL102KC	Electrolytic
	C73	GRM40B104K50PT	Chip
	C75	1HYXF1R0TA	Electrolytic
	C76	1HYXF100TA	Electrolytic
	C77	1AYXG331TA	Electrolytic
	C78	1AYXG101TA	Electrolytic
	C79	GRM40B104K50PT	Chip
	C80	1HYXF1R0TA	Electrolytic
	C81	CD12E2GA222	Chip
			DIODES
	D1	EG01CV0	Diode
	D3	D1NL20U4070	Diode
	D4	D1NL20U4070	Diode
	D5	D1NL20U4070	Diode
	D51	FMX32S	Diode
	D52	EL1ZV0	Diode

Safety Mark	Ref. No.	Part Number	Description
	D53	1SS133T-77	Diode
	D54	EL1ZV0	Diode
	D55	EL1ZV0	Diode
	D56	1SS133T-77	Diode
	D57	FMB24M023108	Diode
	D58	FMB24M023108	Diode
	D59	1SS133T-77	Diode
	D60	1SS133T-77	Diode
	D61	EL1ZV0	Diode
	D62	1SS133T-77	Diode
	D63	1SS133T-77	Diode
		DIODE	
	DB1	U6SBA60	Bridge Diode
		DIODES	
	ZD1	RD75FT8	Zener
	ZD2	RD75FT8	Zener
	ZD3	MTZJ27DT77	Zener
	ZD51	MTZJ8.2CT77	Zener
	ZD52	MTZJ27DT77	Zener
	ZD53	MTZJ5.1BT77	Zener
	ZD54	MTZJ5.1BT77	Zener
	ZD55	MTZJ5.1BT77	Zener
	ZR1	ERZV10D511	Zener
	ZR2	ERZV10D511	Zener
	ZR3	ERZV10D511	Zener
	ZR4	ERZV10D511	Zener
		ICS	
	IC1	FA5311BP	PWM Control
	IC2	MIP0253SPSCF	Power Device
	IC3	UPC7812AHF	Regulater
	IC4	UPC78M12AHF	Regulater
	IC5	PQ1CG2032FZ	DC/DC Convertor
	IC6	PQ1CG2032FZ	DC/DC Convertor
	IC7	UPC1093JT	Regulater
	IC8	UPC1093JT	Regulater
		TRANSISTORS	
	Q1	2SK2749	Transistor
	Q2	2SB1188TQR	Transistor
	Q3	2SJ304	MOS FET
	Q4	2SJ304	MOS FET
	Q5	2SD602ATX	Transistor
		RESISTORS	
	R1	ERDS1TJ474T	Carbon
	R2	ERJ6GEYJ102V	Chip
	R4	ERG2SJ273H	Metal Oxide
	R5	ERJ6GEYJ561V	Chip
	R6	ERJ6GEYJ473V	Chip
	R7	ERJ6GEYJ473V	Chip
	R8	ERDS1TJ121T	Carbon
	R9	ERF5EKR22S	Wirewound
	R10	ERG2SJ180H	Metal Oxide
	R11	ERG2SJ180H	Metal Oxide
	R12	ERJ6GEYJ103V	Chip
	R13	ERJ6GEYJ101V	Chip
	R14	ERDS1TJ510T	Carbon
	R16	ERG2SJ104H	Metal Oxide
	R18	ERDS1TJ121T	Carbon
	R19	ERDS1TJ121T	Carbon

Safety Mark	Ref. No.	Part Number	Description
	R20	ERJ6ENF4871V	Chip
	R21	ERJ6GEYJ222V	Chip
	R23	ERJ6GEY0R00V	Chip
	R24	ERJ6GEYJ153V	Chip
	R25	ERDS2TJ184T	Carbon
	R26	ERDS2TJ184T	Carbon
	R28	ERDS1TJ221T	Carbon
	R29	ERG1SJ220P	Metal Oxide
	R3	ERG2SJ273H	Metal Oxide
	R30	ERJ6GEYJ153V	Chip
	R31	ERQ14AZJ1R0P	Fuse Resistor
	R51	ERX2SJ6R8H	Metal Oxide
	R52	ERX2SJ6R8H	Metal Oxide
	R53	ERJ6GEYJ103V	Chip
	R54	ERJ6GEYJ333V	Chip
	R55	ERJ6GEYJ103V	Chip
	R56	ERJ6GEYJ333V	Chip
	R57	ERDS1TJ102T	Carbon
	R58	ERDS1TJ102T	Carbon
	R59	ERJ6GEYJ103V	Chip
	R60	ERJ6ENF2941V	Chip
	R61	ERJ6ENF1001V	Chip
	R62	ERJ6ENF1651V	Chip
	R63	ERJ6ENF1001V	Chip
	R64	ERJ6GEYJ102V	Chip
	R65	ERJ6GEYJ102V	Chip
	R66	ERJ6ENF5602V	Chip
	R67	ERJ6ENF6491V	Chip
	R68	ERJ6GEYJ332V	Chip
	R69	ERJ6GEYJ102V	Chip
	R70	ERJ6GEYJ183V	Chip
	R71	ERJ6GEYJ273V	Chip
	R72	ERJ6GEYJ273V	Chip
	R73	ERJ6GEYJ181V	Chip
	R74	ERJ6GEYJ102V	Chip
	R75	ERJ6GEYJ101V	Chip
	R76	ERJ6ENF2801V	Chip
	R77	ERJ6ENF2701V	Chip
	R78	ERJ6GEYJ101V	Chip
		RESISTORS	
	RF1	ERU5TAJ220	Fuse Resistor
		OTHERS	
	CN1	TP82224-31	Connector
	CN2	TP82224-31	Connector
	CN3	5566-02A210	Connector
	CN4	B2PVH	Connector
	CN5	B4P-VH	Connector
	CN6	DF315P2DSA	Connector
	CN7	DF35P2DSA	Connector
	CN8	B2P3-VH	Connector
		OTHERS	
	BL1	HF55BTS3545B	Chip Bead Inductor
	BL5	HF55BTS3545B	Chip Bead Inductor
	BL6	HF55BTS3545B	Chip Bead Inductor
		OTHERS	
	F1	XBA2F80NU2	Fuse
	F2	XBA2C31TR0	Fuse

Safety Mark	Ref. No.	Part Number	Description
			OTHERS
	FG1	TP00370-41	Earth Tag
	FG2	TP00370-41	Earth Tag
	FG3	TP00370-41	Earth Tag
			OTHERS
	J1	FFPEY0015-9	Jamper
	J5	RJP06TU	Jamper
	J6	RJP06TU	Jamper
	J7	FFPEY0015-9	Jamper
	J8	RJP06TU	Jamper
	J9	RJP06TU	Jamper
	J10	RJP06TU	Jamper
	J11	FFPEY0015-9	Jamper
	J12	FFPEY0015-9	Jamper
	J13	FFPEY0015-9	Jamper
	J14	FFPEY0015-9	Jamper
	J15	FFPEY0015-9	Jamper
	J16	FFPEY0015-9	Jamper
	J17	FFPEY0015-9	Jamper
	J18	FFPEY0015-9	Jamper
	J19	FFPEY0015-9	Jamper
	J20	FFPEY0015-9	Jamper
	J21	FFPEY0015-9	Jamper
	J22	FFPEY0015-9	Jamper
	J23	FFPEY0015-9	Jamper
	J24	FFPEY0015-9	Jamper
	J25	FFPEY0015-9	Jamper
	J26	FFPEY0015-9	Jamper
	J27	FFPEY0015-9	Jamper
	J28	FFPEY0015-9	Jamper
	J29	FFPEY0015-9	Jamper
	J30	FFPEY0015-9	Jamper
	J31	FFPEY0015-9	Jamper
	J32	FFPEY0015-9	Jamper
	J33	FFPEY0015-9	Jamper
	J34	FFPEY0015-9	Jamper
	J35	FFPEY0015-9	Jamper
	J36	FFPEY0015-9	Jamper
	J37	FFPEY0015-9	Jamper
	J38	FFPEY0015-9	Jamper
	J39	FFPEY0015-9	Jamper
	J40	FFPEY0015-9	Jamper
	J41	FFPEY0015-9	Jamper
	J42	FFPEY0015-9	Jamper
	J43	FFPEY0015-9	Jamper
	J44	FFPEY0015-9	Jamper
	J45	FFPEY0015-9	Jamper
	J46	RJP06TU	Jamper
	J47	RJP06TU	Jamper
	J48	FFPEY0015-9	Jamper
	J49	FFPEY0015-9	Jamper
	J50	RJP06TU	Jamper
	J51	FFPEY0015-9	Jamper
			OTHERS
	L1	TF3524V102Y	Line Filter
	L2	SFT10-80-01	Switching Transformer
	L3	HF2836-253Y	Line Filter
	L5	TSL0808RA100	Choek Coil

Safety Mark	Ref. No.	Part Number	Description
	L6	TSL1315S101	Choek Coil
	L7	TSL1315S101	Choek Coil
	L8	EL0305RA100	Choek Coil
			OTHERS
	PC1	PC123FY8	Photo Coupler
	PC2	PC123FY8	Photo Coupler
	PC3	PC123FY8	Photo Coupler
	PC4	TLP620GRD4	Photo Coupler
	PC5	TLP665JD4	Photo Coupler
	PC6	PC123FY8	Photo Coupler
	PC7	PC123FY8	Photo Coupler
			OTHERS
	SA1	SA501MA05F25	Surge Absorber
	SA2	SA302MA05F25	Surge Absorber
			OTHERS
	SR1	TF861ILF625	SCR
			OTHNERS
⚠	SW1	RS1ABC11	Power Switch
⚠	SW2	DE2LCALB	Door Switch
⚠	SW3	DE3LCALB	Laser Safety Switch
⚠	SW4	DE3LCALB	Laser Safety Switch
			OTHERS
	T1	SRW35ECT58H	Switching Transformer
	T2	SRW19EST30V	Switching Transformer
			OTHERS
	TP1	RT01T1.0B	Test Pin
			OTHERS
	TR1	TM861ILF625	Triac

3.11. Main LVPS PC Board (FFPWB06695 for Taiwan)

Safety Mark	Ref. No.	Part Number	Description
			CAPACITORS
	C1	ECQU2A105ML	Polyester Film
	C2	CS13E2GA332	Ceramic
	C3	CS13E2GA332	Ceramic
	C4	ECQU2A105ML	Polyester Film
	C5	CS11E2GA222	Ceramic
	C6	CS11E2GA222	Ceramic
	C7	CS11E2GA222	Ceramic
	C8	2PMXR471ASS	Electrolytic
	C9	2PMXR471ASS	Electrolytic
	C10	GRM40B104K50PT	Chip
	C11	DE75R471K1KT	Ceramic
	C12	DE75R471K1KT	Ceramic
	C14	1HYXF101TA	Electrolytic
	C15	GRM40B104K50PT	Chip
	C16	ECUV1H561JCX	Chip
	C17	GRM40B474K16PT	Chip
	C18	GRM40B104K50PT	Chip
	C19	GRM40B104K50PT	Chip
	C20	GRM40B103K50PT	Chip
	C21	2GMW104KEFTL	Electrolytic
	C22	ECQU2A474ML	Polyester Film
	C23	GRM40B104K50PT	Chip
	C51	ECKRHT471KC	Ceramic
	C52	1VZL102KC	Electrolytic
	C53	1VZL102KC	Electrolytic
	C56	GRM40B104K50PT	Chip
	C57	GRM40B104K50PT	Chip
	C58	GRM40B104K50PT	Chip
	C59	1HYXF101TA	Electrolytic
	C60	1HYXF101TA	Electrolytic
	C61	GRM40B104K50PT	Chip
	C62	1HYXF101TA	Electrolytic
	C63	1HYXF101TA	Electrolytic
	C64	GRM40B104K50PT	Chip
	C65	EEUFC1V102E	Electrolytic
	C66	GRM40B104K50PT	Chip
	C67	1VZL102KC	Electrolytic
	C69	GRM40B104K50PT	Chip
	C70	GRM40B104K50PT	Chip
	C71	1VZL102KC	Electrolytic
	C73	GRM40B104K50PT	Chip
	C75	1HYXF1R0TA	Electrolytic
	C76	1HYXF100TA	Electrolytic
	C77	1AYXG331TA	Electrolytic
	C78	1AYXG101TA	Electrolytic
	C79	GRM40B104K50PT	Chip
	C80	1HYXF1R0TA	Electrolytic
			DIODES
	D1	AG01AV0	Diode
	D3	D1NL20U4070	Diode
	D4	D1NL20U4070	Diode
	D5	D1NL20U4070	Diode
	D51	FMX32S	Diode
	D52	EL1ZV0	Diode
	D53	1SS133T-77	Diode

Safety Mark	Ref. No.	Part Number	Description
	D54	EL1ZV0	Diode
	D55	EL1ZV0	Diode
	D56	1SS133T-77	Diode
	D57	FMB24M023108	Diode
	D58	FMB24M023108	Diode
	D59	1SS133T-77	Diode
	D60	1SS133T-77	Diode
	D61	EL1ZV0	Diode
	D62	1SS133T-77	Diode
	D63	1SS133T-77	Diode
			DIODE
	DB1	U6SBA60	Bridge Diode
			DIODES
	ZD1	RD33FT8	Zener
	ZD2	RD33FT8	Zener
	ZD3	MTZJ27DT77	Zener
	ZD51	MTZJ8.2CT77	Zener
	ZD52	MTZJ27DT77	Zener
	ZD53	MTZJ5.1BT77	Zener
	ZD54	MTZJ5.1BT77	Zener
	ZD55	MTZJ5.1BT77	Zener
	ZR1	ERZV10D271	Zener
	ZR2	ERZV10D271	Zener
	ZR3	ERZV10D271	Zener
	ZR4	ERZV10D271	Zener
			ICS
	IC1	FA5311BP	PWM Control
	IC2	MIP0253SPSCF	Power Device
	IC3	UPC7812AHF	Regulater
	IC4	UPC78M12AHF	Regulater
	IC5	PQ1CG2032FZ	DC/DC Convertor
	IC6	PQ1CG2032FZ	DC/DC Convertor
	IC7	UPC1093JT	Regulater
	IC8	UPC1093JT	Regulater
			TRANSISTORS
	Q1	2SK2698	Transistor
	Q2	2SB1188TQR	Transistor
	Q3	2SJ304	MOS FET
	Q4	2SJ304	MOS FET
	Q5	2SD602ATX	Transistor
			RESISTORS
	R1	ERDS1TJ474T	Carbon
	R2	ERJ6GEYJ102V	Chip
	R3	ERG2SJ752H	Metal Oxide
	R4	ERG2SJ752H	Metal Oxide
	R5	ERJ6GEYJ561V	Chip
	R6	ERJ6GEYJ473V	Chip
	R7	ERJ6GEYJ473V	Chip
	R8	ERDS1TJ101T	Carbon
	R9	ERF5EKR10S	Wirewound
	R10	ERG2SJ180H	Metal Oxide
	R11	ERG2SJ180H	Metal Oxide
	R12	ERJ6GEYJ103V	Chip
	R13	ERJ6GEYJ101V	Chip
	R14	ERDS1TJ510T	Carbon
	R16	ERG2SJ104H	Metal Oxide
	R18	ERDS1TJ121T	Carbon
	R19	ERDS1TJ121T	Carbon

Safety Mark	Ref. No.	Part Number	Description
	R20	ERJ6ENF4871V	Chip
	R21	ERJ6GEYJ222V	Chip
	R23	ERJ6GEY0R00V	Chip
	R24	ERJ6GEYJ153V	Chip
	R25	ERDS2TJ823T	Carbon
	R26	ERDS2TJ823T	Carbon
	R28	ERDS1TJ101T	Carbon
	R29	ERG1SJ220P	Metal Oxide
	R30	ERJ6GEYJ153V	Chip
	R31	ERQ14AZJ1R0P	Fuse Resistor
	R51	ERX2SJ6R8H	Metal Oxide
	R52	ERX2SJ6R8H	Metal Oxide
	R53	ERJ6GEYJ103V	Chip
	R54	ERJ6GEYJ333V	Chip
	R55	ERJ6GEYJ103V	Chip
	R56	ERJ6GEYJ333V	Chip
	R57	ERDS1TJ102T	Carbon
	R58	ERDS1TJ102T	Carbon
	R59	ERJ6GEYJ103V	Chip
	R60	ERJ6ENF2941V	Chip
	R61	ERJ6ENF1001V	Chip
	R62	ERJ6ENF1651V	Chip
	R63	ERJ6ENF1001V	Chip
	R64	ERJ6GEYJ102V	Chip
	R65	ERJ6GEYJ102V	Chip
	R66	ERJ6ENF5602V	Chip
	R67	ERJ6ENF6491V	Chip
	R68	ERJ6GEYJ332V	Chip
	R69	ERJ6GEYJ102V	Chip
	R70	ERJ6GEYJ183V	Chip
	R71	ERJ6GEYJ273V	Chip
	R72	ERJ6GEYJ273V	Chip
	R73	ERJ6GEYJ181V	Chip
	R74	ERJ6GEYJ102V	Chip
	R75	ERJ6GEYJ101V	Chip
	R76	ERJ6ENF2801V	Chip
	R77	ERJ6ENF2701V	Chip
	R78	ERJ6GEYJ101V	Chip
		RESISTOR	
	RF1	ERU5TAJ100	Fuse Resistor
		OTHERS	
	CN1	TP82224-31	Connector
	CN2	TP82224-31	Connector
	CN3	5566-02A210	Connector
	CN5	B4P-VH	Connector
	CN6	DF315P2DSA	Connector
	CN7	DF35P2DSA	Connector
	CN8	B2P3-VH	Connector
		OTHERS	
	BL1	HF55BTS3545B	Chip Bead Inductor
	BL5	HF55BTS3545B	Chip Bead Inductor
	BL6	HF55BTS3545B	Chip Bead Inductor
		OTHERS	
	F1	XBA1F150NU14	Fuse
	F2	XBA1C63NU141	Fuse
		OTHERS	
	FG1	TP00370-41	Earth Tag
	FG2	TP00370-41	Earth Tag

Safety Mark	Ref. No.	Part Number	Description
	FG3	TP00370-41	Earth Tag
			OTHERS
	HS1	FFPGH0101	Heatsink
	HS2	FFPGH0102	Heatsink
			OTHERS
	J1	FFPEY0015-9	Jamper
	J5	RJP06TU	Jamper
	J6	RJP06TU	Jamper
	J7	FFPEY0015-9	Jamper
	J8	RJP06TU	Jamper
	J9	RJP06TU	Jamper
	J10	RJP06TU	Jamper
	J11	FFPEY0015-9	Jamper
	J12	FFPEY0015-9	Jamper
	J13	FFPEY0015-9	Jamper
	J14	FFPEY0015-9	Jamper
	J15	FFPEY0015-9	Jamper
	J16	FFPEY0015-9	Jamper
	J17	FFPEY0015-9	Jamper
	J18	FFPEY0015-9	Jamper
	J19	FFPEY0015-9	Jamper
	J20	FFPEY0015-9	Jamper
	J21	FFPEY0015-9	Jamper
	J22	FFPEY0015-9	Jamper
	J23	FFPEY0015-9	Jamper
	J24	FFPEY0015-9	Jamper
	J25	FFPEY0015-9	Jamper
	J26	FFPEY0015-9	Jamper
	J27	FFPEY0015-9	Jamper
	J28	FFPEY0015-9	Jamper
	J29	FFPEY0015-9	Jamper
	J30	FFPEY0015-9	Jamper
	J31	FFPEY0015-9	Jamper
	J32	FFPEY0015-9	Jamper
	J33	FFPEY0015-9	Jamper
	J34	FFPEY0015-9	Jamper
	J35	FFPEY0015-9	Jamper
	J36	FFPEY0015-9	Jamper
	J37	FFPEY0015-9	Jamper
	J38	FFPEY0015-9	Jamper
	J39	FFPEY0015-9	Jamper
	J40	FFPEY0015-9	Jamper
	J41	FFPEY0015-9	Jamper
	J42	FFPEY0015-9	Jamper
	J43	FFPEY0015-9	Jamper
	J44	FFPEY0015-9	Jamper
	J45	FFPEY0015-9	Jamper
	J46	RJP06TU	Jamper
	J47	RJP06TU	Jamper
	J48	FFPEY0015-9	Jamper
	J49	FFPEY0015-9	Jamper
	J50	RJP06TU	Jamper
	J51	FFPEY0015-9	Jamper
	J52	FFPEY0015-9	Jamper
			OTHERS
	L1	TF3524V102Y	Line Filter
	L3	HF2836-802Y	Line Filter
	L4	SFT12-60-05	Switching Transformer

Safety Mark	Ref. No.	Part Number	Description
	L5	TSL0808RA100	Choek Coil
	L6	TSL1315S101	Choek Coil
	L7	TSL1315S101	Choek Coil
	L8	EL0305RA100	Choek Coil
			OTHERS
	PC1	PC817X5	Photo Coupler
	PC2	PC817X5	Photo Coupler
	PC3	PC817X5	Photo Coupler
	PC4	PC81411NSZ	Photo Coupler
	PC5	TLP665GS	Photo Coupler
	PC6	PC817X5	Photo Coupler
	PC7	PC817X5	Photo Coupler
			OTHERS
	SA1	SA301LA05F25	Surge Absorber
	SA2	SA302MA05F25	Surge Absorber
			OTHERS
	SR1	TF861ILF625	SCR
			OTHERS
⚠	SW1	RS1ABC11	Power Switch
⚠	SW2	DE2LCALB	Door Switch
⚠	SW3	DE3LCALB	Laser Safety Switch
⚠	SW4	DE3LCALB	Laser Safety Switch
			OTHERS
	T1	SRW35ECT57H	Switching Transformer
	T2	SRW19EST30V	Switching Transformer
			OTHERS
	TP1	RT01T1.0B	Test Pin
			OTHERS
	TR1	TM1641ILF625	Triac

3.12. G3B PC Board (FFPWB06711)

Safety Mark	Ref. No.	Part Number	Description
		CAPACITORS	
	C891	C1608F1E104Z	Chip
	C897	C1608F1E104Z	Chip
	C901	C1608F1E104Z	Chip
	C902	C1608F1E104Z	Chip
	C903	C1608F1E104Z	Chip
	C904	C1608F1E104Z	Chip
	C906	C1608F1E104Z	Chip
	C907	C1608F1E104Z	Chip
	C908	C1608F1E104Z	Chip
	C909	C1608F1E104Z	Chip
	C910	C1608F1E104Z	Chip
	C911	C1608F1E104Z	Chip
	C912	C1608F1E104Z	Chip
	C913	C1608F1E104Z	Chip
	C914	ECEA1CKA470B	Electrolytic
	C915	C1608F1E104Z	Chip
	C916	C1608F1E104Z	Chip
	C917	C1608F1E104Z	Chip
	C918	C1608F1E104Z	Chip
	C919	C1608F1E104Z	Chip
	C920	C1608H1H221J	Chip
	C921	C1608F1E104Z	Chip
	C922	C1608F1E104Z	Chip
	C923	C1608F1E104Z	Chip
	C924	C1608F1E104Z	Chip
	C925	C1608F1E104Z	Chip
	C926	C1608F1E104Z	Chip
	C927	C1608F1E104Z	Chip
	C928	C1608F1E104Z	Chip
	C929	C1608H1H102J	Chip
	C930	C1608H1H102J	Chip
	C931	C1608H1H102J	Chip
	C932	C1608H1H102J	Chip
	C933	C1608H1H102J	Chip
	C934	C1608H1H102J	Chip
	C935	C1608H1H102J	Chip
	C936	C1608H1H102J	Chip
	C937	C1608H1H102J	Chip
	C938	C1608H1H102J	Chip
	C939	C1608H1H102J	Chip
	C940	C1608H1H102J	Chip
	C941	ECEA1CKA100B	Electrolytic
	C942	C1608F1C224Z	Chip
	C943	C1608H1H561J	Chip
	C944	C1608F1C224Z	Chip
	C945	C1608F1C224Z	Chip
	C946	C1608H1H221J	Chip
	C947	ECJ1VB1H122K	Chip
	C948	C1608F1C224Z	Chip
	C949	C1608F1C224Z	Chip
	C950	C1608F1C224Z	Chip
	C952	ERJ3GEY0R00V	Chip
	C953	C1608B1H223K	Chip
	C954	ECEA1CKA470B	Electrolytic
	C955	ECEA1CKA470B	Electrolytic

Safety Mark	Ref. No.	Part Number	Description
	C956	C1608H1H151J	Chip
	C957	C1608H1H151J	Chip
	C958	C1608H1H151J	Chip
	C959	C1608H1H102J	Chip
	C960	C1608H1H102J	Chip
	C961	C1608H1H561J	Chip
	C962	C1608H1H561J	Chip
	C963	C1608H1H561J	Chip
	C964	C1608H1H221J	Chip
	C965	ECJ2VF1H104Z	Chip
	C966	ECJ2VF1H104Z	Chip
	C967	ECJ2VF1H104Z	Chip
	C968	ECEA1VKA100B	Electrolytic
	C969	ECEV1CA100SR	Electrolytic
	C970	ECEV1CA100SR	Electrolytic
	C971	ECEV1CA100SR	Electrolytic
	C972	C1608B1H103K	Chip
	C973	C1608F1E104Z	Chip
	C974	C1608F1E104Z	Chip
	C976	C1608F1E104Z	Chip
	C977	ERJ3GEYJ103V	Chip
	C978	ERJ3GEYJ103V	Chip
	C979	ERJ3GEYJ103V	Chip
	C980	ERJ3GEYJ103V	Chip
	C988	C1608F1C224Z	Chip
	C989	C1608H1H102J	Chip
	C990	C1608F1E104Z	Chip
	C992	ECJ1VF1C224Z	Chip
	C993	ECJ1VF1C224Z	Chip
	C994	ECJ1VF1C224Z	Chip
	C995	C1608H1H102J	Chip
	C996	C1608H1H102J	Chip
	C997	ECJ1VB1C473K	Chip
	C998	C1608F1E104Z	Chip
		DIODE	
	D901	MA152K-(TX)	
		DIODES	
	DA901	MA157A-(TX)	
	DA902	MA157A-(TX)	
		ICS	
	IC901	MN195004AAA	V34 Modem
	IC902	MBM29F040C7D	4MB Flash Memory
	IC904	TC558128BFT	1MB SRAM
	IC905	TR88017CF-CS	Analog
	IC906	DZZSP01264	Analog
	IC907	BA4558F-E2	OP Amp
	IC908	BA4558F-E2	OP Amp
	IC909	T74VHC273FEL	TTL
	IC910	T74VHC273FEL	TTL
	IC911	T74VHC244FEL	TTL
	IC912	T74VHC139FEL	TTL
	IC913	LHF16K57	Flash Memory
	IC914	T74VHC244FEL	TTL
	IC917	T74VHC14FTEL	TTL
	IC918	T74VHC32FTEL	TTL
	IC921	TC7S00F(TE85L)	LMOS
		TRANSISTOR	
	DT901	DTB114EKT146	Chip Digital

Safety Mark	Ref. No.	Part Number	Description
	DT903	DTC114EKA146	Chip Digital
	DT909	DTC114EKA146	Chip Digital
			TRANSISTOR
	Q901	2SB1321A-(TA)	Transistor
	Q902	2SD1992A-(TA)	Transistor
			RESISTORS
	R861	ERJ3GEYJ103V	Chip
	R864	ERJ3GEYJ220V	Chip
	R867	ERJ3GEYJ103V	Chip
	R868	ERJ3GEYJ103V	Chip
	R869	ERJ3GEYJ103V	Chip
	R873	ERJ3GEYJ103V	Chip
	R874	ERJ3GEYJ103V	Chip
	R875	ERJ3GEYJ103V	Chip
	R876	ERJ3GEYJ273V	Chip
	R878	ERJ3GEYJ102V	Chip
	R879	ERJ3GEYJ102V	Chip
	R880	ERJ3GEYJ273V	Chip
	R881	ERJ3GEYJ102V	Chip
	R882	ERJ3GEYJ102V	Chip
	R883	ERJ3GEYJ102V	Chip
	R884	ERJ3GEYJ102V	Chip
	R885	ERJ3GEYJ103V	Chip
	R886	ERJ3GEYJ103V	Chip
	R901	ERJ3GEYJ103V	Chip
	R902	ERJ3GEYJ103V	Chip
	R903	ERJ3GEYJ103V	Chip
	R904	ERJ3GEYJ103V	Chip
	R905	ERJ3GEYJ103V	Chip
	R906	ERJ3GEYJ103V	Chip
	R907	ERJ3GEYJ103V	Chip
	R908	ERJ3GEYJ103V	Chip
	R909	ERJ3GEYJ103V	Chip
	R910	ERJ3GEYJ103V	Chip
	R911	ERJ3GEYJ103V	Chip
	R912	ERJ3GEYJ103V	Chip
	R913	ERJ3GEYJ103V	Chip
	R914	ERJ3GEYJ103V	Chip
	R915	ERJ3GEYJ224V	Chip
	R916	ERJ3GEYJ103V	Chip
	R917	ERJ3GEYJ103V	Chip
	R918	ERJ3GEYJ103V	Chip
	R919	ERJ3GEYJ103V	Chip
	R920	ERJ3GEYJ103V	Chip
	R921	ERJ3GEYJ103V	Chip
	R922	ERJ3GEYJ103V	Chip
	R923	ERJ3GEYJ103V	Chip
	R924	ERJ3GEYJ103V	Chip
	R925	ERJ3GEYJ103V	Chip
	R926	ERJ3GEYJ103V	Chip
	R927	ERJ3GEYJ103V	Chip
	R928	ERJ3GEYJ103V	Chip
	R931	ERJ3GEYJ103V	Chip
	R932	ERJ3GEYJ102V	Chip
	R933	ERJ3GEYJ102V	Chip
	R934	ERJ3GEYJ102V	Chip
	R935	ERJ3GEYJ102V	Chip
	R936	ERJ3GEYJ102V	Chip

Safety Mark	Ref. No.	Part Number	Description
	R937	ERJ3GEYJ102V	Chip
	R938	ERJ3GEYJ102V	Chip
	R939	ERJ3GEYJ103V	Chip
	R940	ERJ3GEYJ102V	Chip
	R941	ERJ3GEYJ102V	Chip
	R942	ERJ3GEYJ102V	Chip
	R943	ERJ3GEYJ102V	Chip
	R944	ERJ3GEYJ102V	Chip
	R945	ERJ3GEYJ102V	Chip
	R946	ERJ3GEYJ102V	Chip
	R947	ERJ3GEYJ102V	Chip
	R948	ERJ3GEYJ102V	Chip
	R949	ERJ3GEYJ102V	Chip
	R950	ERJ3GEYJ102V	Chip
	R951	ERJ3GEYJ102V	Chip
	R952	ERJ3GEYJ102V	Chip
	R953	ERJ3GEYJ102V	Chip
	R954	ERJ3GEYJ472V	Chip
	R955	ERJ3GEYJ680V	Chip
	R956	ERJ3GEYJ680V	Chip
	R957	ERJ3GEYJ680V	Chip
	R958	ERJ3GEYJ680V	Chip
	R959	ERJ3GEYJ680V	Chip
	R960	ERJ3GEYJ680V	Chip
	R961	ERJ3GEYJ680V	Chip
	R962	ERJ3GEYJ680V	Chip
	R963	ERJ3GEYJ680V	Chip
	R964	ERJ3GEYJ680V	Chip
	R965	ERJ3GEYJ680V	Chip
	R966	ERJ3GEYJ680V	Chip
	R967	ERJ3GEYJ680V	Chip
	R968	ERJ3GEYJ680V	Chip
	R969	ERJ3GEYJ680V	Chip
	R970	ERJ3GEY0R00V	Chip
	R972	ERJ3GEY0R00V	Chip
	R973	ERJ3GEY0R00V	Chip
	R975	ERJ3GEY0R00V	Chip
	R976	ERJ3GEY0R00V	Chip
	R977	ERJ3GEYJ3R3V	Chip
	R978	ERJ3GEYJ3R3V	Chip
	R979	ERJ3GEYJ333V	Chip
	R980	ERJ3GEYJ333V	Chip
	R981	ERJ3GEYJ752V	Chip
	R982	ERJ3GEYJ104V	Chip
	R983	ERJ3GEYJ104V	Chip
	R984	ERJ3GEYJ154V	Chip
	R985	ERJ3GEYJ104V	Chip
	R987	ERJ3GEYJ473V	Chip
	R988	ERJ3GEYJ184V	Chip
	R989	ERJ3EKF1002V	Chip
	R990	ERJ3EKF1202V	Chip
	R991	ERJ3EKF4702V	Chip
	R993	ERJ3GEYJ823V	Chip
	R996	ERJ3GEYJ623V	Chip
	R997	ERJ3GEYJ513V	Chip
	R998	ERJ3GEYJ223V	Chip
	R999	ERJ3EKF5600V	Chip

Safety Mark	Ref. No.	Part Number	Description
			OTHERS
	BL901	BLM21A121SPT	Chip Bead Inductor
	BL902	BLM21P300SPT	Chip Bead Inductor
	BL903	BLM21P300SPT	Chip Bead Inductor
	BL904	ERJ3GEY0R00V	Jamper
	BL905	ERJ3GEY0R00V	Jamper
	BL906	ERJ3GEY0R00V	Jamper
	BL907	ERJ3GEY0R00V	Jamper
			OTHERS
	CN901	B15BPHKS	Connector
	CN902	FX2M6B60SDSL	Connector
	CN903	ICMC68HS1124	Connector
	CN904	DF38P2DSA	Connector
	CN905	DF3A-2P-2DSA	Connector
			OTHERS
	JP901	ERJ3GEY0R00V	Jamper
	NF901	MEM2012T50	Noise Filter
	XL901	VX-3B	Quartz Crystal