

Service
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Service Manual



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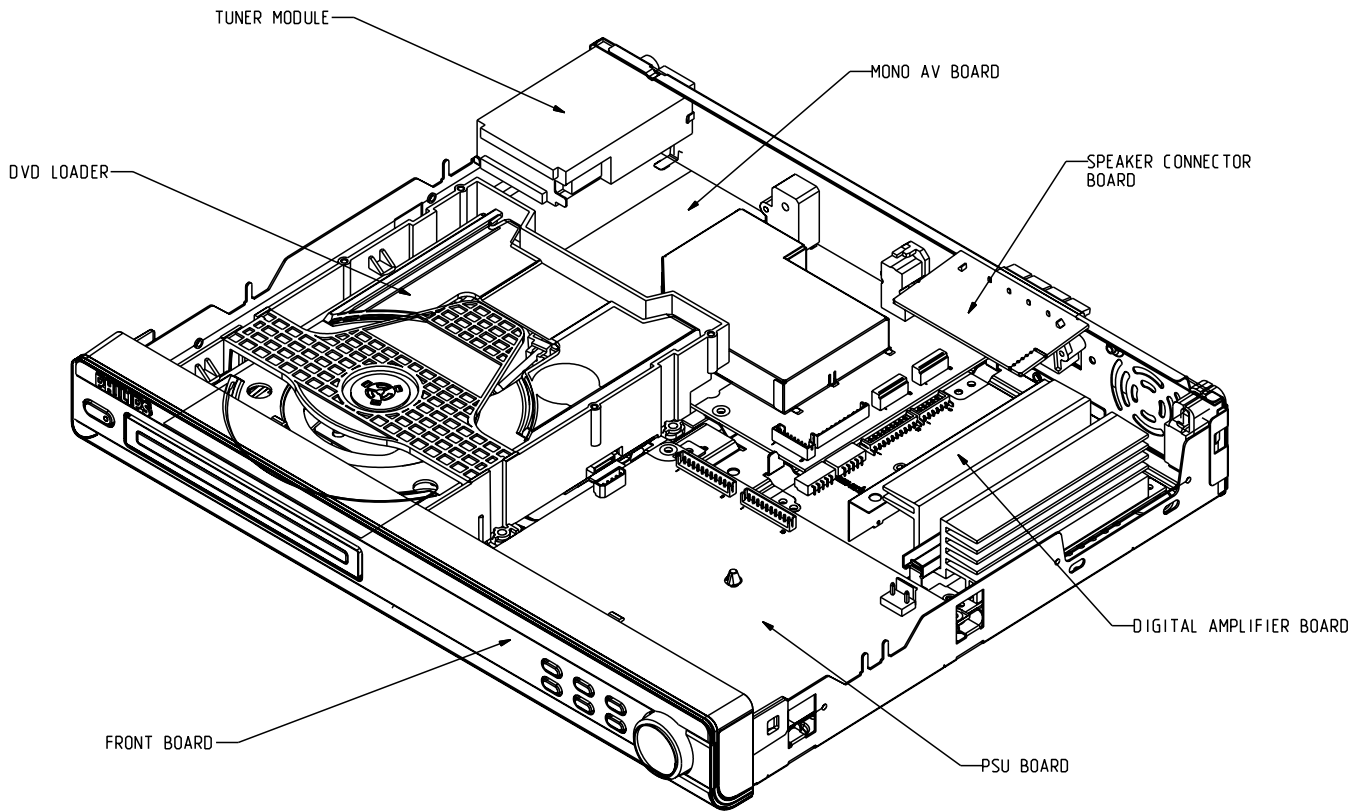
3139 785 30890

Version 1.0



PHILIPS

LOCATION OF PC BOARDS



VERSION VARIATIONS:

Features & Board in used:	LX2600D					
	/97					
Progressive Scan						
Voltage Selector						
Aux-In						
TV-In						
Line-Out	x					
Composite (CVBS) Output	x					
S-Video Output	x					
Component (Pr/Y/Pb) Outputs	x					
SCART Output						

SPECIFICATIONS**GENERAL:**

Mains voltage : 230v / 97
Mains frequency : 50Hz
Power consumption : < 2W at Standby
 < 80W 1/8 P_{rated}
Dimension centre unit : 360 x 54 x 316mm

TUNER:**FM**

Tuning range : 87.5-108MHz
Grid : 50kHz
IF frequency : 10.7MHz ± 25kHz
Aerial input : 75Ω coaxial
26 dB Quieting Sensitivity : 20dB
Selectivity at S9/300kHz : > 25dB
IF rejection : > 60dB
Image rejection : > 25dB
Distortion at RF=1mV, dev. 75kHz : < 3%
-3dB Limiting point : 23.5dBf
Crosstalk at RF=1mV, dev. 40kHz : > 18dB

MW

Tuning range : 530-1700kHz
Grid : 10kHz
IF frequency : 450kHz ± 1kHz
Aerial input : Frame aerial
26 dB Quieting Sensitivity : < 4.0mV/M
Selectivity at S9/300kHz : > 20dB
IF rejection : > 45dB
Image rejection : > 28dB
Distortion at RF=50mV, m=80% : < 5%

AMPLIFIER:

Stereo mode (DIN) : 25W + 25W RMS ¹⁾
Frequency response ±3dB : 100Hz-20kHz
Hum (min, volume) : 200nW
Residue noise (min, volume) : 40nW
Output sensitivity
 Line out : 700mV ± 2dB at 47kΩ

COMPACT DISC/VCD/DVD:

Video Decoding : MPEG-2 / MPEG-1
Video DAC : 12 Bits
Signal System : PAL / NTSC

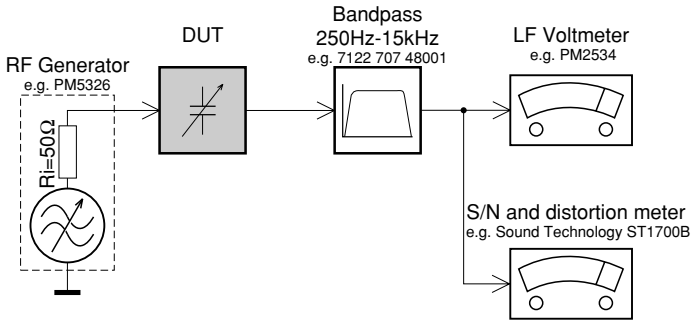
Video Format : 4:3 / 16:9
Video S/N : > 56 dB
CVBS out ²⁾
 CVBS level : 1.0 ± 0.1V_{p-p}
 Luminance S/N ratio : > 55dB
S-Video out ²⁾
 Y level : 1.0 ± 0.1V_{p-p}
 Y S/N ratio : > 60dB
 C level (burst) : 286mV_{p-p} +1/-4 dB

¹⁾ with 1kHz & 10% THD

²⁾ Output terminals terminated with 75Ω

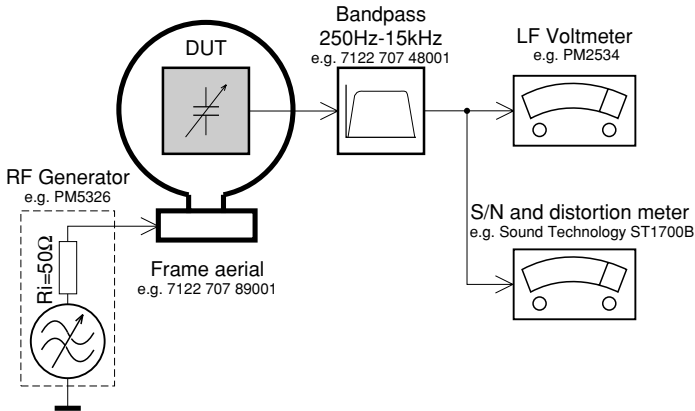
MEASUREMENT SETUP

Tuner FM



Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilotone (19kHz, 38kHz).

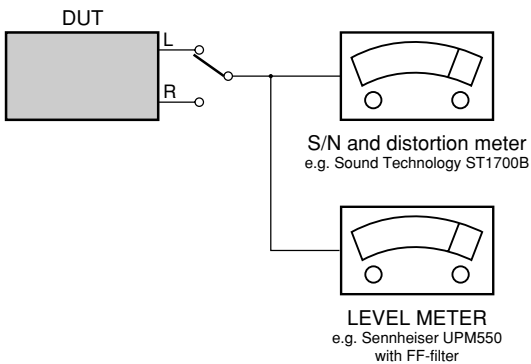
Tuner AM (MW,LW)



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday's cage. Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz, 100Hz).

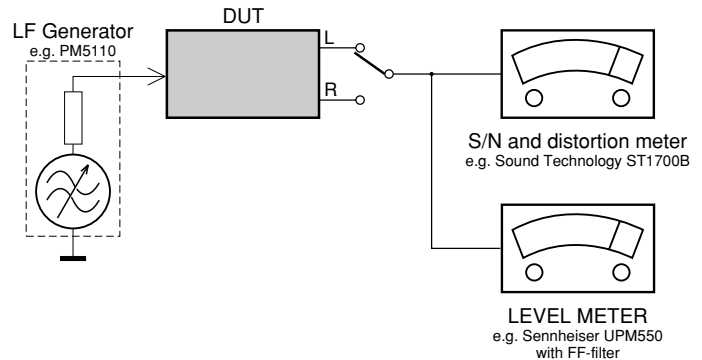
CD

Use Audio Signal Disc SBC429 4822 397 30184 (replaces test disc 3)



Recorder

Use Universal Test Cassette **CrO2** SBC419 4822 397 30069 or Universal Test Cassette **Fe** SBC420 4822 397 30071



SERVICE AIDS

Service Tools :

Universal Torx driver holder	4822 395 91019
Torx bit T10 150mm	4822 395 50456
Torx driver set T6 - T20	4822 395 50145
Torx driver T10 extended	4822 395 50423
Allen key set (1.5, 2, 2.5, 3, 4, 5, 6, 8mm)	5322 395 10754

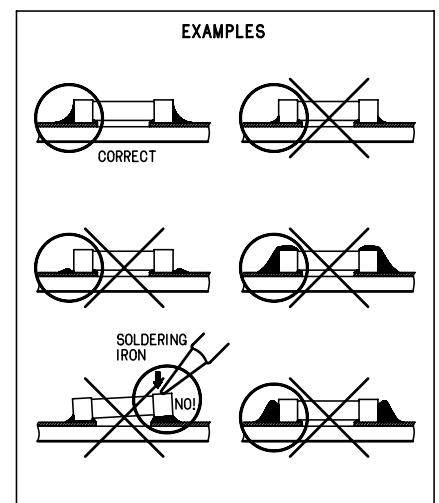
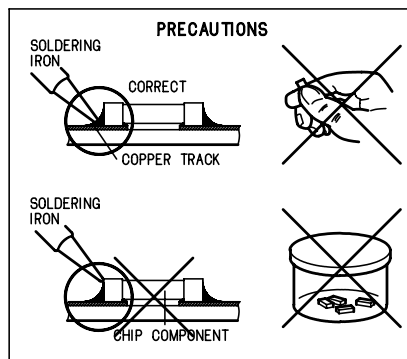
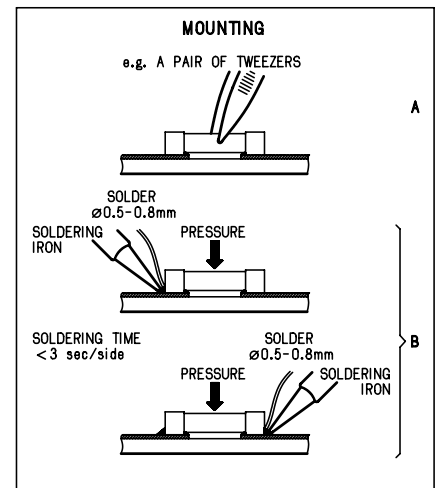
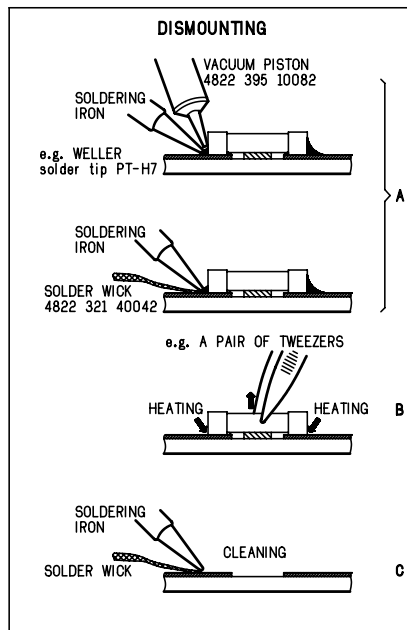
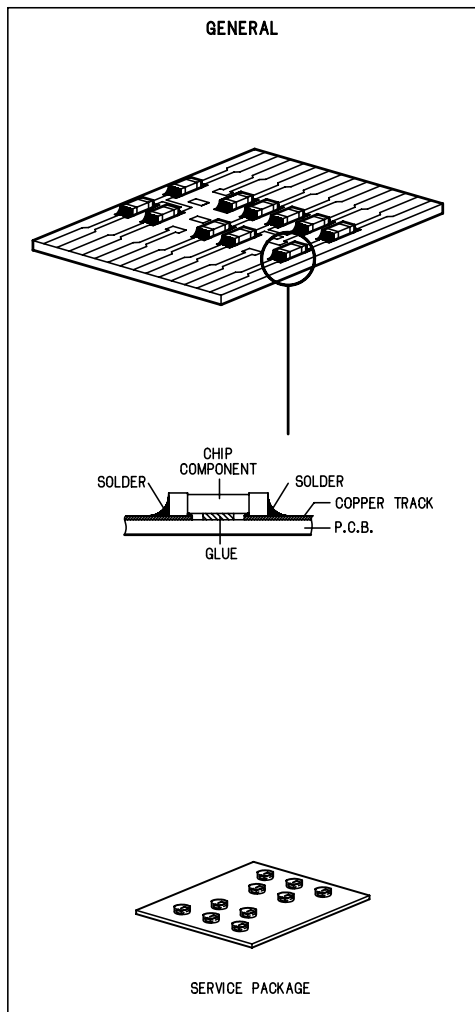
Compact Disc:

SBC426/426A Test disc 5 + 5A	4822 397 30096
SBC442 Audio Burn-in Test disc 1kHz	4822 397 30155
SBC429 Audio Signals disc	4822 397 30184
SBC444/444A	4822 397 30245
CD-RW Printed Audio Test Disc	7104 099 96611
Dolby Pro-logic Test Disc	4822 395 10216

ESD Equipment :

Anti-static table mat - large 1200x650x1.25mm ...	4822 466 10953
Anti-static table mat - small 600x650x1.25mm	4822 466 10958
Anti-static wristband	4822 395 10223
Connector box (1M Ω)	4822 320 11307
Extension cable (to connect wristband to conn. box)	4822 320 11305
Connecting cable (to connect table mat to conn. box)	4822 320 11306
Earth cable (to connect product to mat or box)	4822 320 11308
Complete kit ESD3 (combining all above products)	4822 320 10671
Wristband tester	4822 344 13999

HANDLING CHIP COMPONENTS



(GB) WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD**(NL) WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.

Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op hetzelfde potentiaal.

(F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).

Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfilez le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D) WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatistischen Entladungen (ESD).

Unvorsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.

Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.

Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione.

Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisés les pièces de rechange identiques à celles spécifiées.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

"After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA."

**(GB) Warning !**

Invisible laser radiation when open.
Avoid direct exposure to beam.

(S) Varning !

Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad. Betrakta ej strålen.

(SF) Varoitus !

Avatussa laitteessa ja suoalukituksen ohitettaessa olet alltiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

(DK) Advarse !

Usynlig laserstrålning ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

DISMANTLING INSTRUCTIONS

Dismantling of the Front Panel assembly

- 1) Open the Tray and remove the tray cover assembly and remove it as shown in figure 1.

Note: The Tray can be manually open by inserting a minus screw driver (approximately 9mm) and push lever in the direction shown in figure 2.



Figure 1



Figure 2

- 2) Loosen the 5 screws to dismantle the Top Cover
 - 2 screws on each side (pos 293)
 - 3 screws on the Rear Panel (pos 288).
- 3) Uncatch 4 catches C2 (2x on side & 2x on the bottom) to slide the Front Panel assembly as per figure 4.

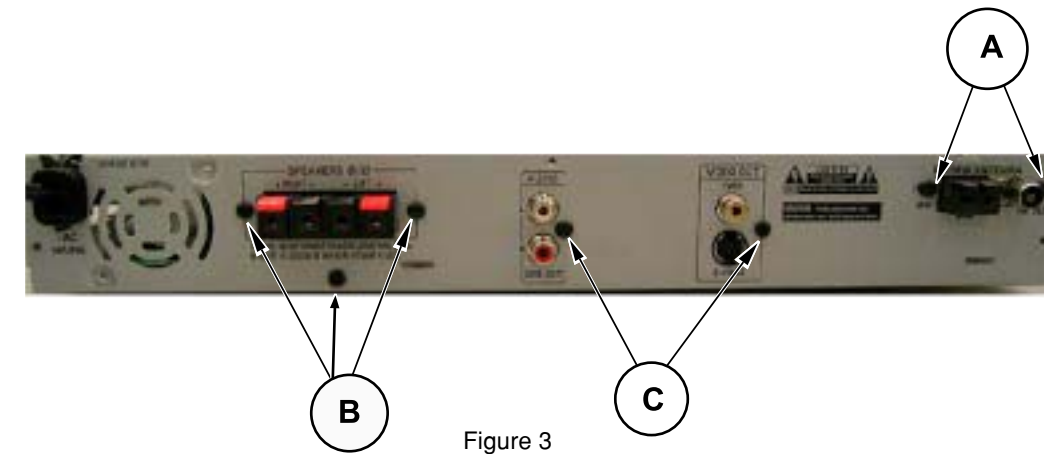
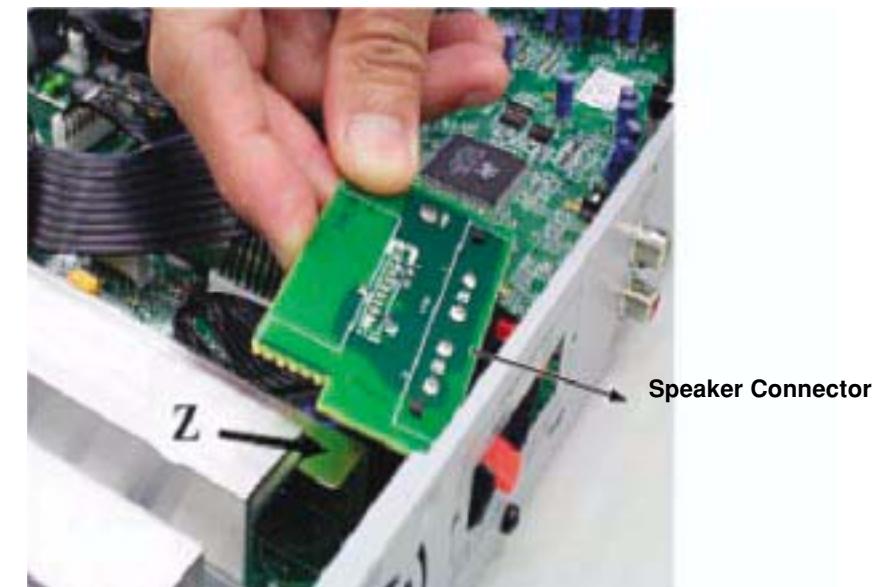


Figure 3



Speaker Connector

Dismantling of the Tuner Module, Loader Mechanism & Mono AV board

- 1) Loosen 2 screws A (pos 281) to remove the Tuner Module as per figure 3.
- 2) With the tray cover assembly already removed, loosen 4 screws D (pos 278) to remove the Loader Mechanism as per figure 4.
- 3) Loosen 2 screws C (pos 283 & 286) on the rear and 2 screws G (see figure 3 and 4) to remove the Mono AV board.

Dismantling of the PSU, Speaker Connector and Amplifier boards

- 1) Loosen 4 screws E (pos 280) and 1 catch C1 to remove the PSU board as per figure 4.
- 2) Loosen 2 screws B (pos 281) to remove the Speaker Connector board as per figure 3. Remove the Speaker Connector board try to prevent being block by Z as per figure 5.
- 3) Loosen 4 screws F (pos 279) to remove the Amplifier board as per figure 4.

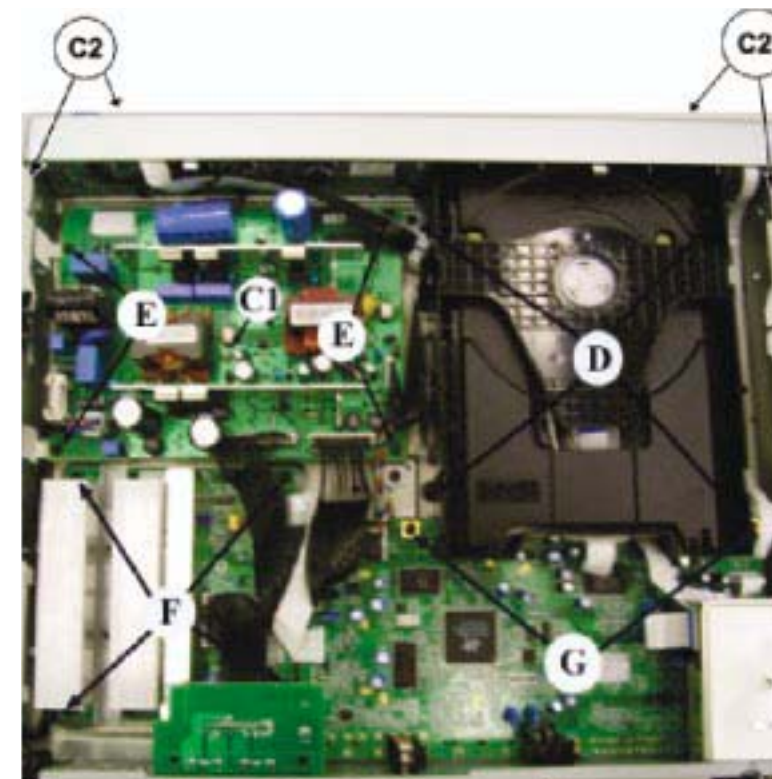
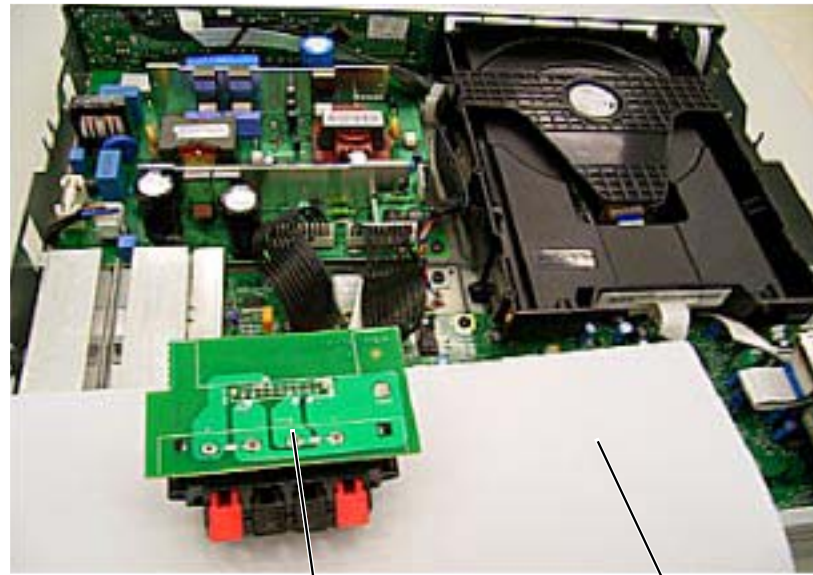


Figure 4

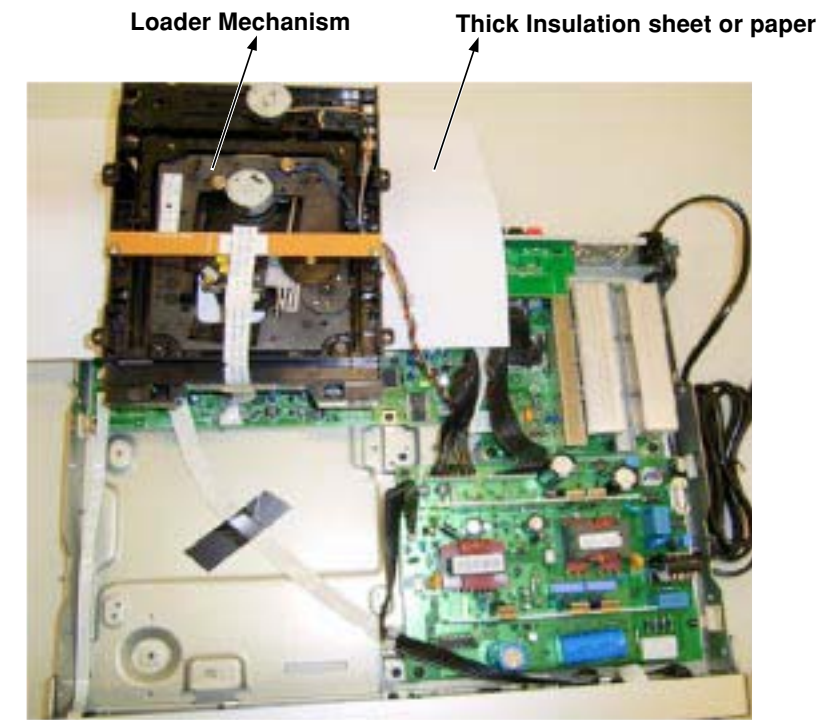
Service positions



Speaker Connector

Thick Insulation sheet or paper

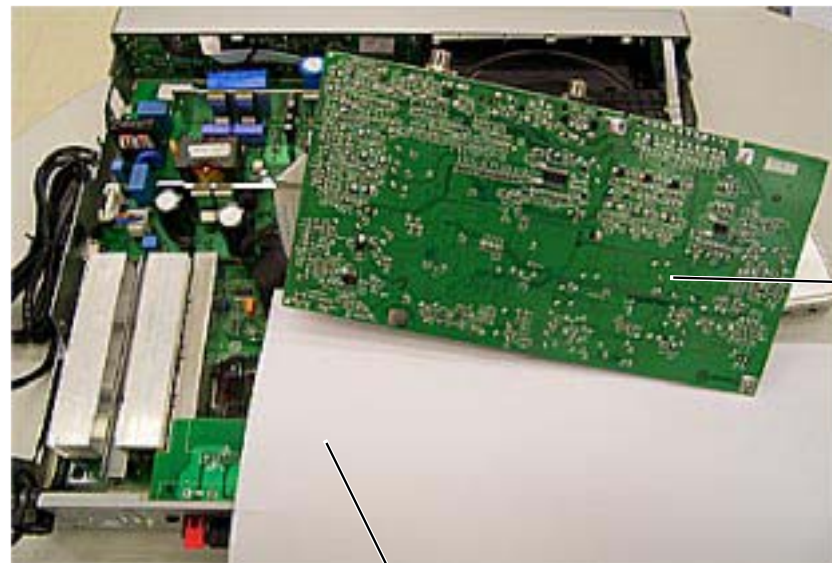
Figure 5



Loader Mechanism

Thick Insulation sheet or paper

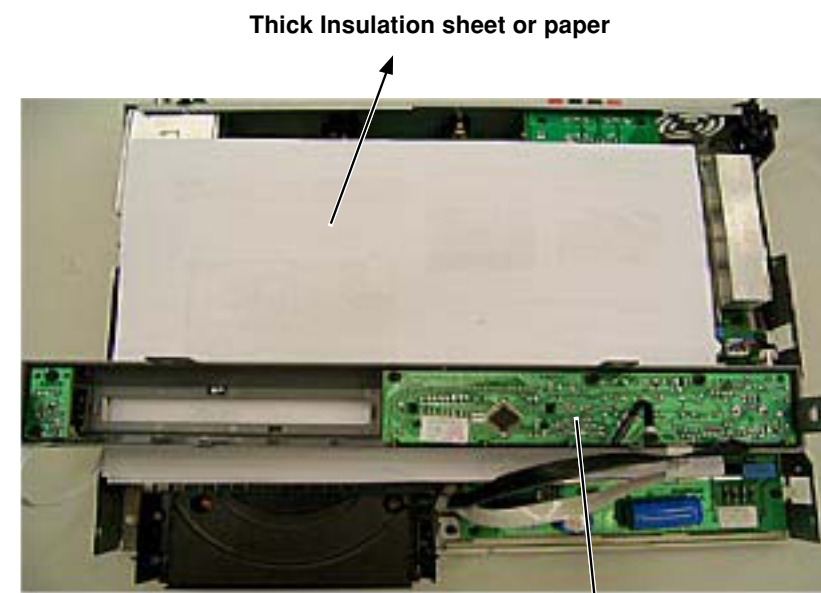
Figure 7



Mono AV Board

Thick Insulation sheet or paper

Figure 6

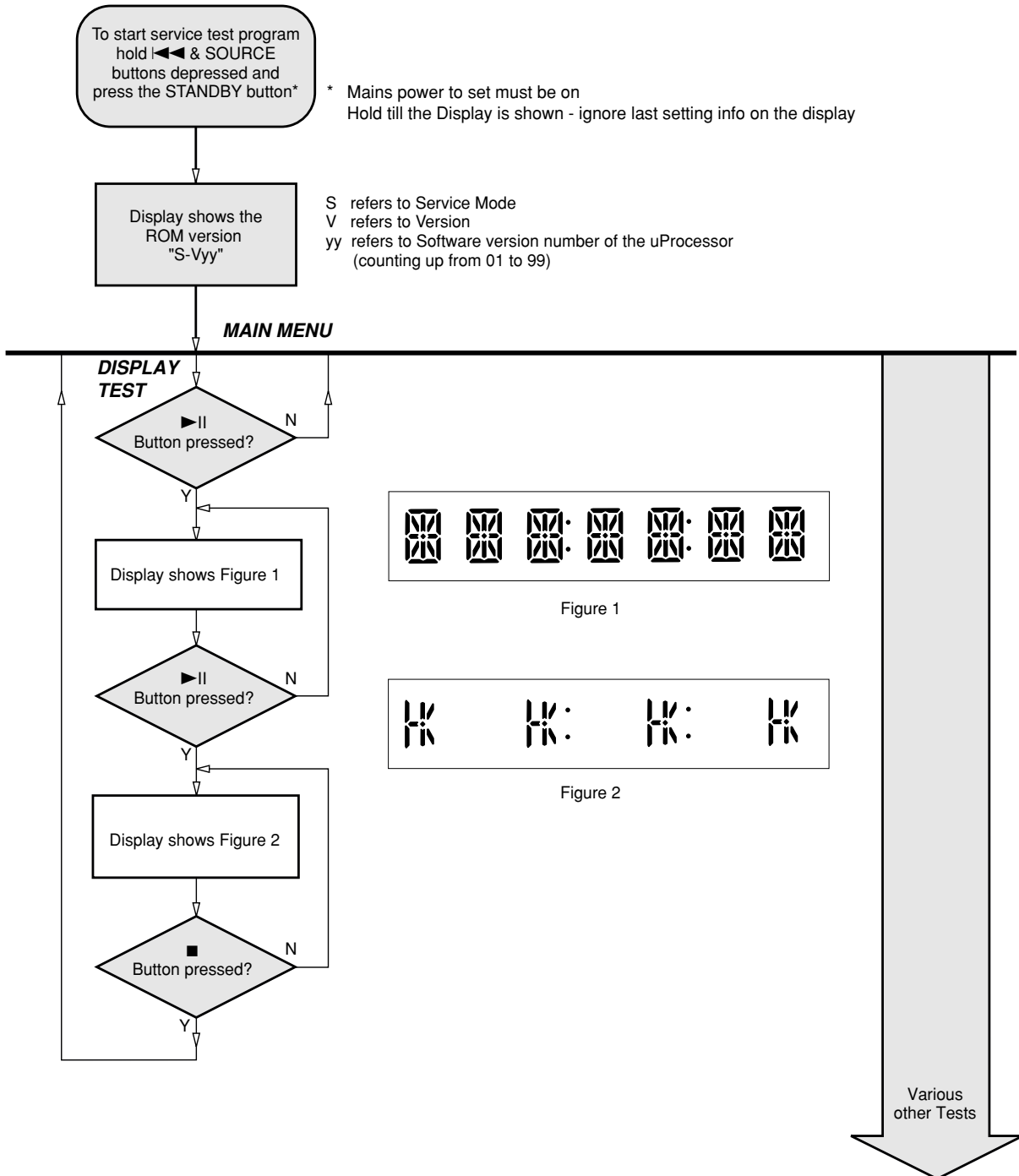


Thick Insulation sheet or paper

Front Keyboard

Figure 8

SERVICE TEST PROGRAM



TEST	Activated with	ACTION
EEPROM FORMAT TEST	◀◀	Load default data. Display shows "NEW" for 1 second. Caution! All presets from the customer will be lost!!
ROTARY ENCODER TEST	SOURCE / VOLUME Knob	Display shows value for 2 seconds. Values increases or decreases in steps of 1 until 0 (Min.) or 40 (Max.) is reached.
LEAVE SERVICE TEST PROGRAM	Disconnect mains cord	

Procedure to change Tuner Grid

During the standby mode, hold the SOURCE and PLAY buttons down and press the STANDBY button.

The display will show the new tuning grid "GRID 9" or "GRID 10".

Note: Repeating the same action will toggle back to its previous tuning grid setting.

Region code change is done as follows:

1) Power up the set and open tray in DVD mode.

2) Press <9999> follow by <X> buttons on the Remote control.

where x = numeric 1 to 6 denoting the regions below:

- 1 = USA
- 2 = Europe
- 3 = Asia Pacific
- 4 = Australia, New Zealand, Latam
- 5 = Russia, India
- 6 = China

Reprogramming of DVD version Matrix

After repair of the Mono AV board the customer setting and region code may lost.

Reprogramming will put the set back in the state in which it has left the factory, ie. with the default setting and the allowed region code.

To reprogram do as follow:

1) Put the set in Stop mode with tray open

2) Press the following buttons on the Remote Control:

<9> <9> <9> <9> <AUDIO> <5> for LX2600D/ 97
(Tuner - Non -Cenelac)

<9> <9> <9> <9> <AUDIO> <6> for LX2610D/93
(Tuner Non- -Cenelac)

* Note: Please make sure the right tuner is used.

Procedure for check Software version

1) Power up the set and open tray in DVD mode.

2) Press OSD button on the Remote control.

3) The TV screen will shows:

SERVO:nnnnnnnn REG:r

LX3600D-yymmdd-Vxx

where

nnnnnnnn = servo version number

r = region number

yymmdd = software date in year, month, day format

xx = version number

SSS = stroke version eg: / 97 or /93

Procedure to upgrade software

1) Power up the set and open tray in DVD mode.

2) Place upgrade CD-ROM onto tray and close.

3) The set will response and display the following:

- LOAD [After the disc is read, the tray will open for you to remove the disc]

- ERASE 0 -> ERASE F -> ERASE 0

- WRITE F -> WRITE 0

- UPG END [only for a short moment, if unsuccessful ERROR is displayed]

- DISC

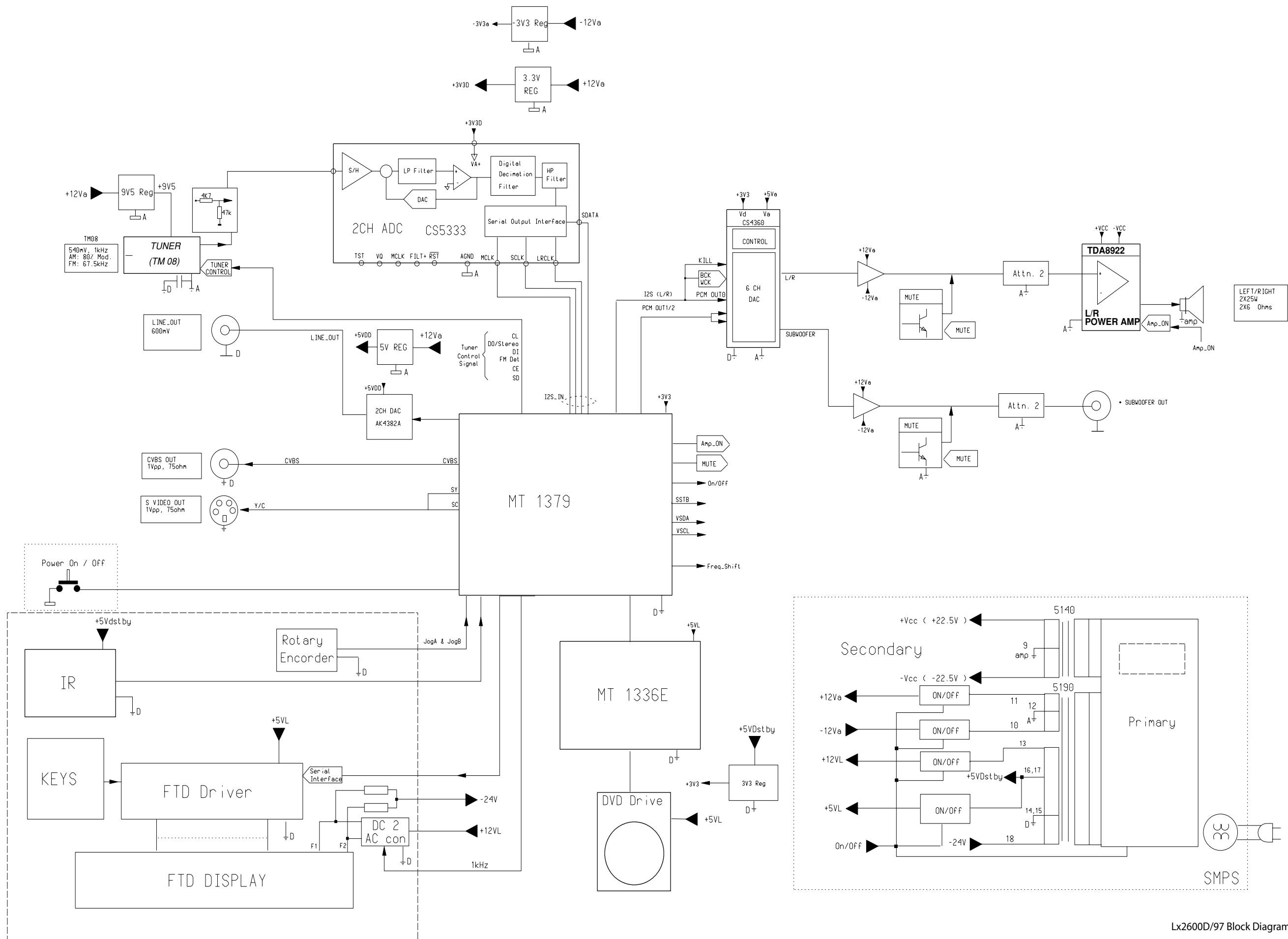
- LOAD [Tray will close indicating that the upgrade process is completed]

4) Unplug the set to disconnect the mains supply.

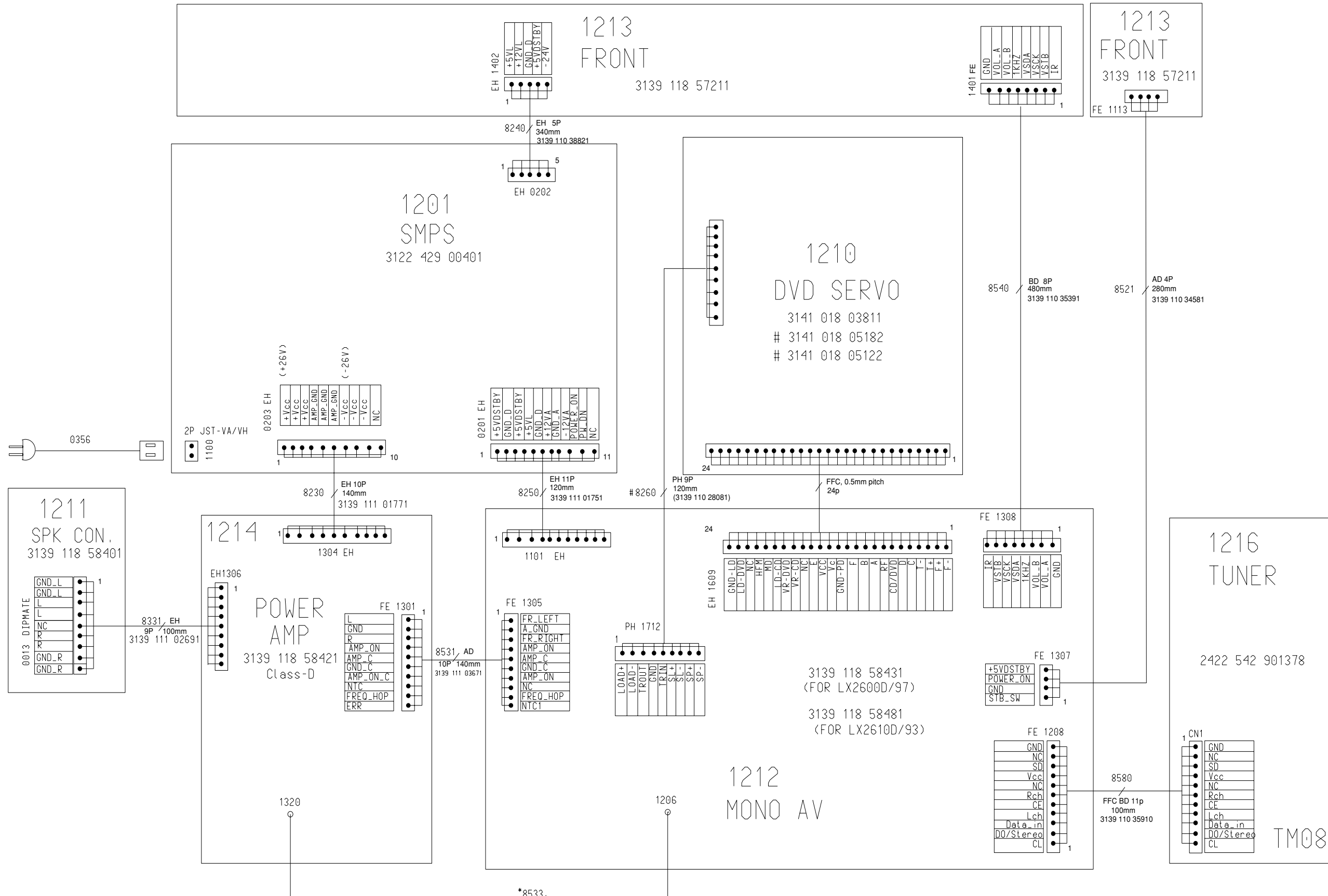
5) The whole process should last for about 5 minutes.

Remove the upgrade CD-ROM and unplug the Mains supply.

SET BLOCK DIAGRAM



WIRING DIAGRAM



8260 come with the Loader
 3141 018 05182 OR
 3141 018 05122

*8533
 1p /220mm
 3139 111 03701

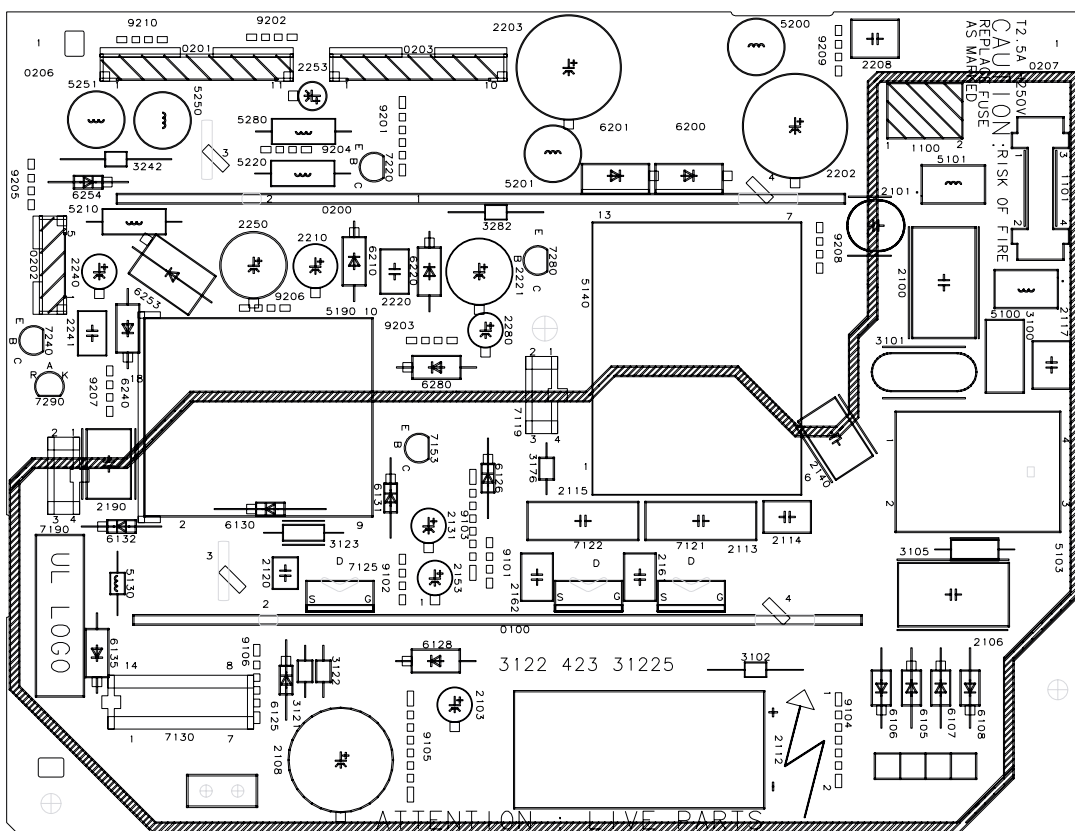
* PROVISION

PSU BOARD

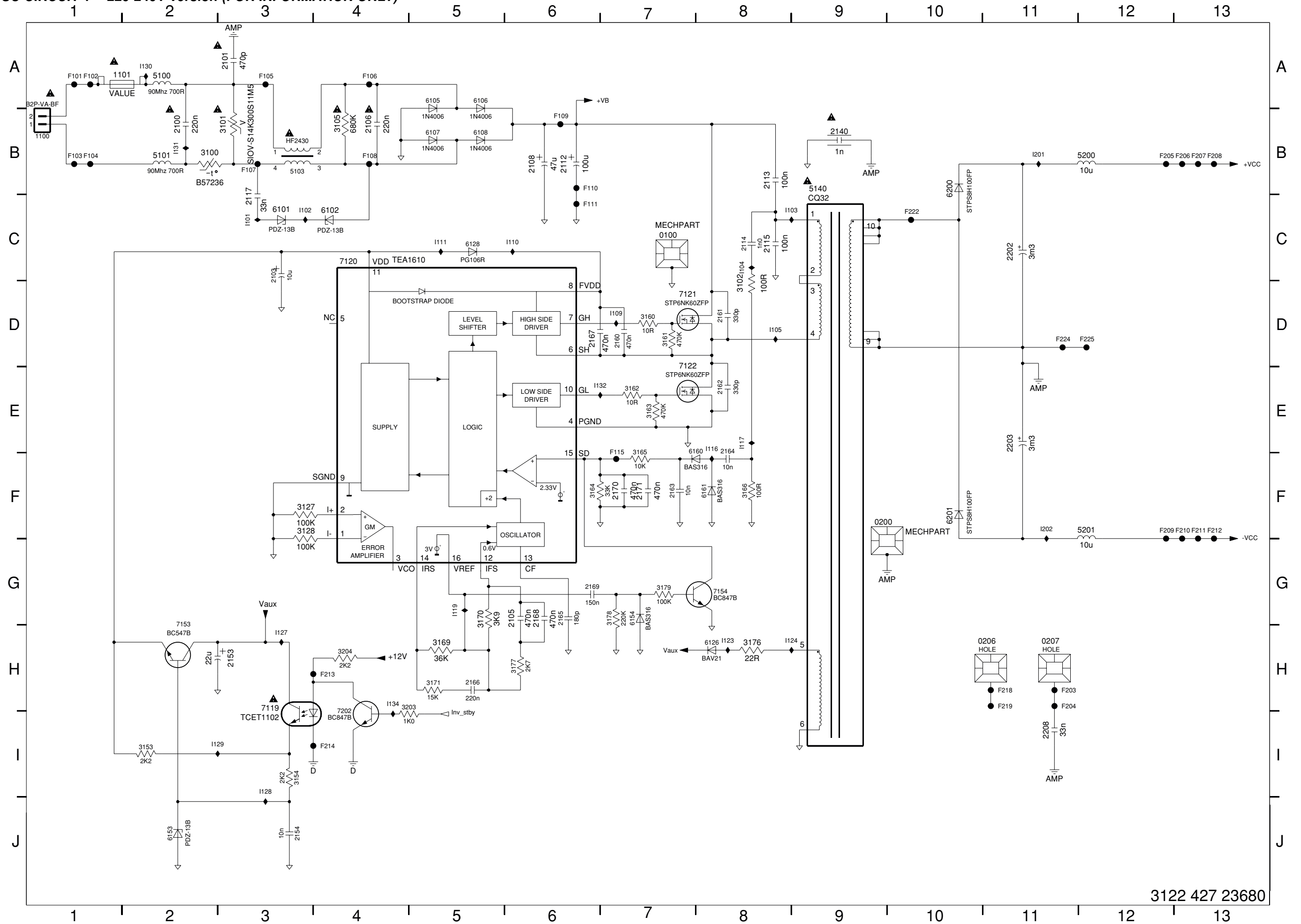
(For Information only)

It is not recommended for component repair on this board but to replace the board when it becomes defective.
Therefore no service parts list is published in this chapter.

The only service part available for replacement is:
PSU Board 220V-240V 3122 429 00191

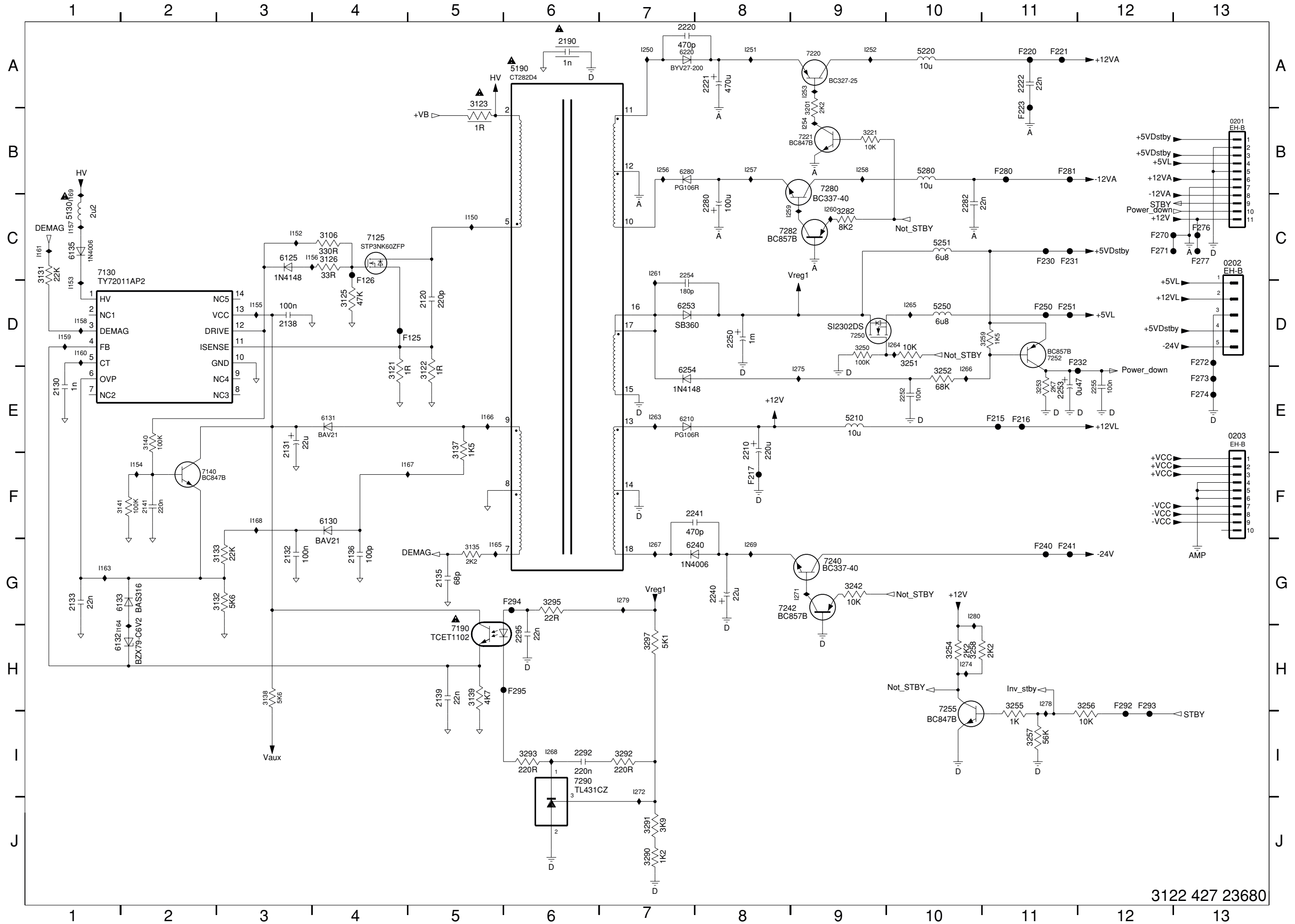


PSU CIRCUIT 1 - 220-240V version (FOR INFORMATION ONLY)

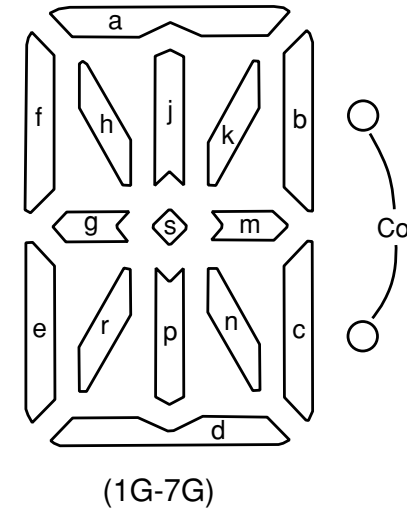
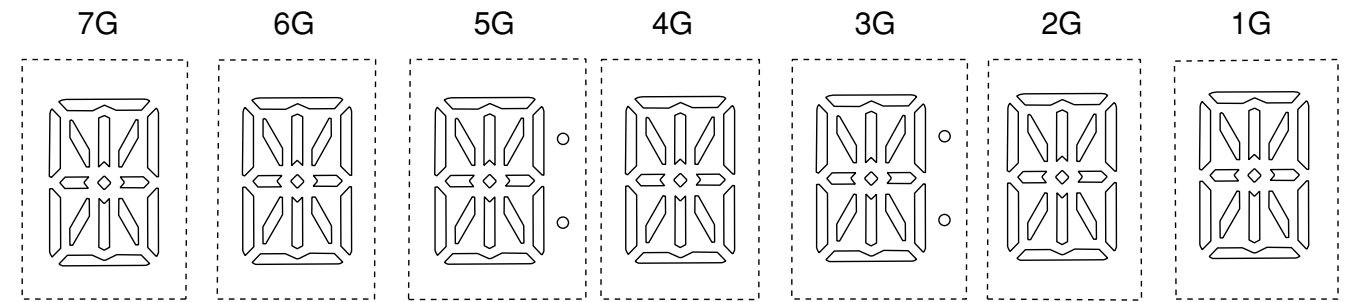


3122 427 23680

PSU CIRCUIT 2 - 220-240V version (FOR INFORMATION ONLY)



FTD DISPLAY PIN CONNECTIONS



FRONT BOARDS

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 Electrical parts list 6-7

	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	a	a	a
P2	j, p	j, p	j, p	j, p	j, p	j, p	j, p
P3	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d
P14	-	-	col	-	col	-	-
P15	s	s	s	s	s	s	s

FTD DISPLAY PIN NO.	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	3
FUNCTION	F	F	N	P	P	P	P	P	P	P	P	P	P	P	P	P	N	N	N	N	N	7	6	5	4	3	2	1	N	F	F	F	F	
	1	2	P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	C	C	C	C	C	G	G	G	G	G	G	P	2	2	2	2

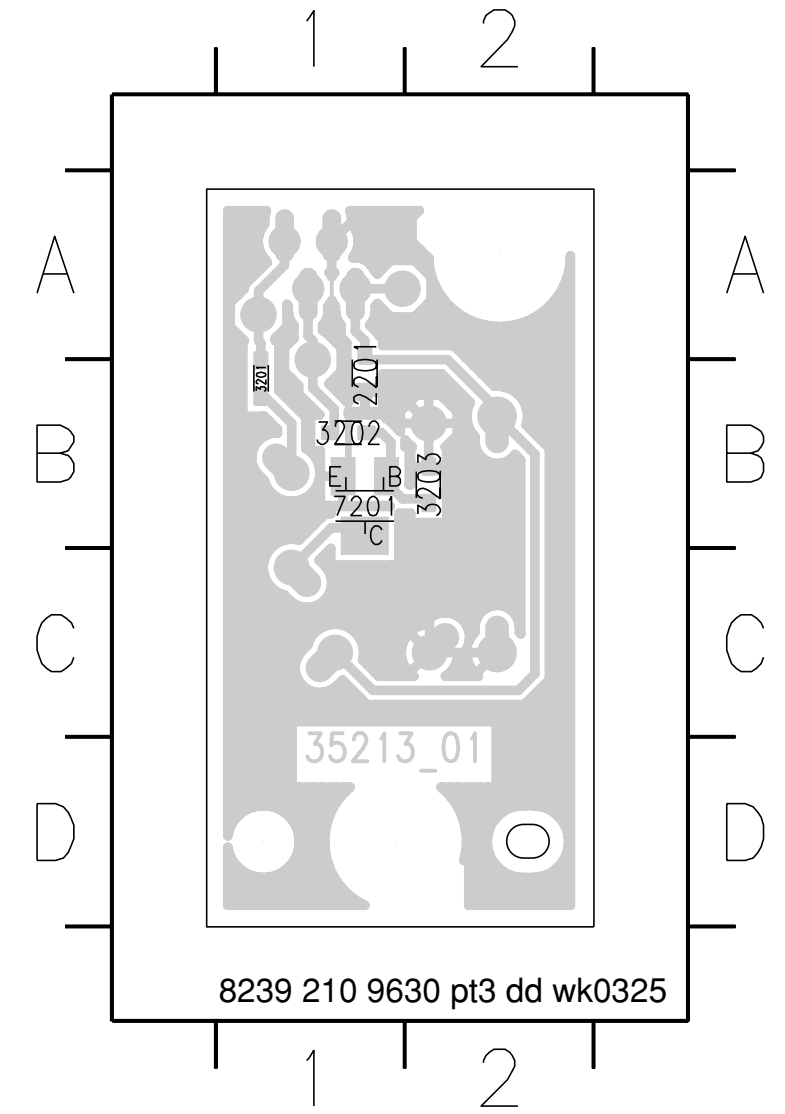
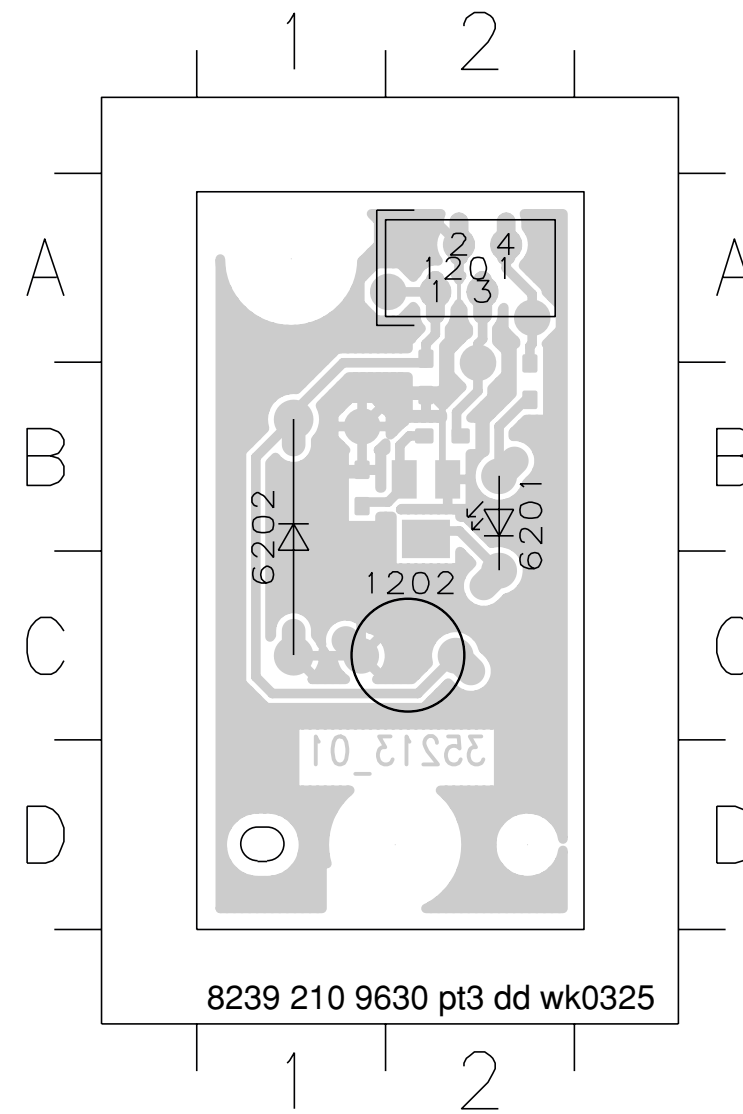
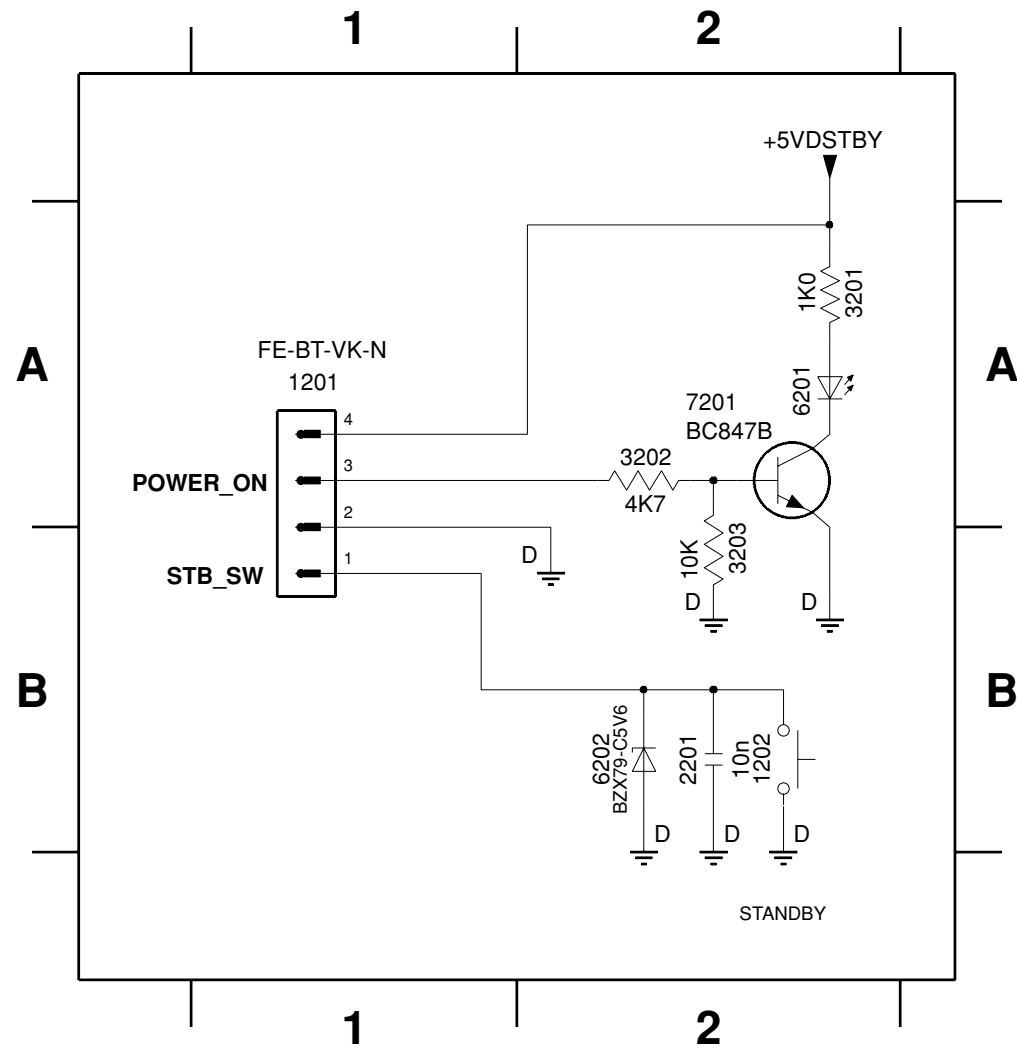
FRONT STANDBY PART - CIRCUIT DIAGRAM

FRONT STANDBY PART - COMPONENT & CHIP LAYOUT

1201 A1 2201 B2 3202 A2 6201 A2 7201 A2
 1202 B2 3201 A2 3203 B2 6202 B2

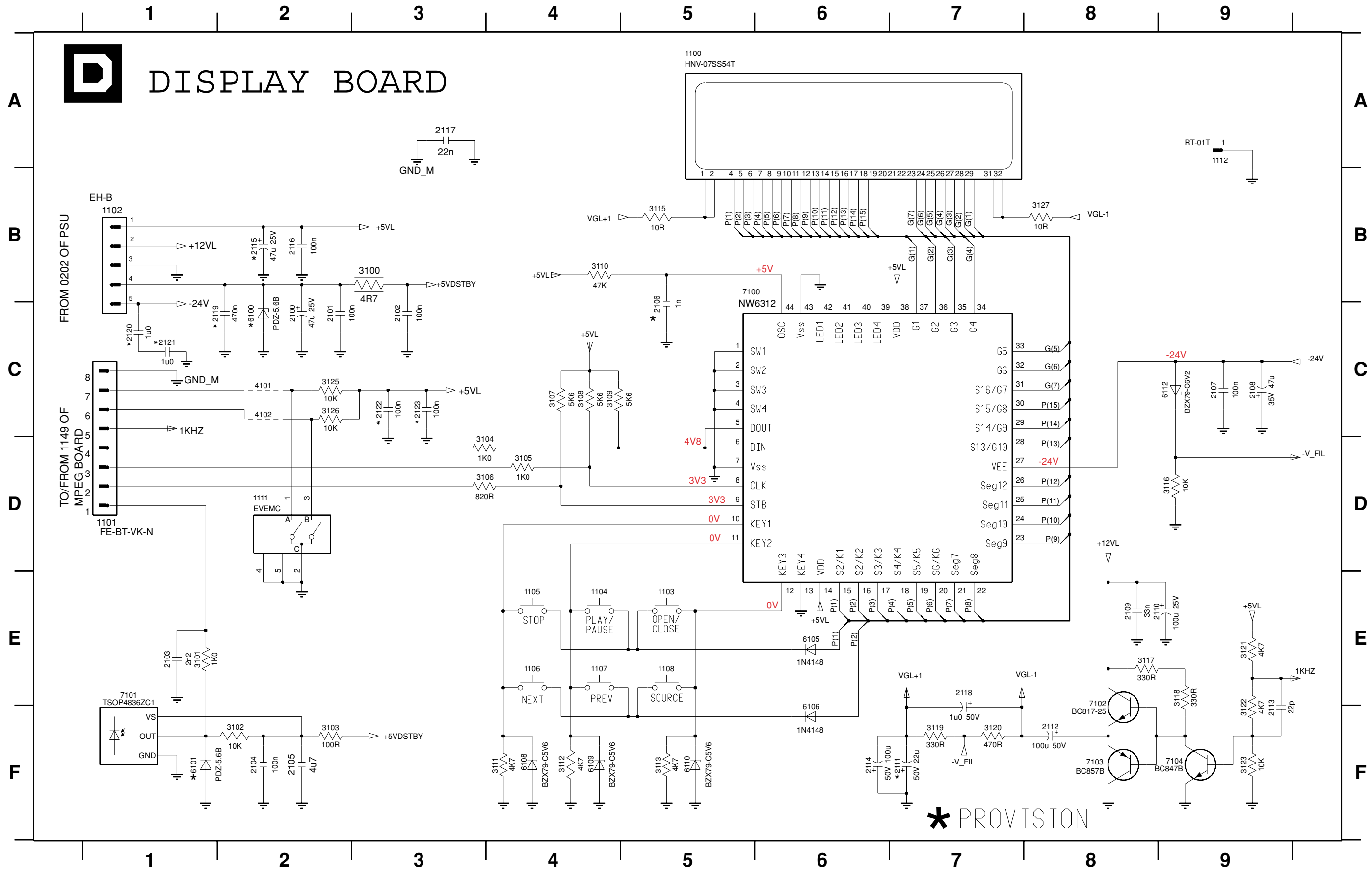
1201 A2 6201 B2
 1202 C2 6202 B1

2201 B1 3203 B2
 3201 B1 7201 B1
 3202 B1



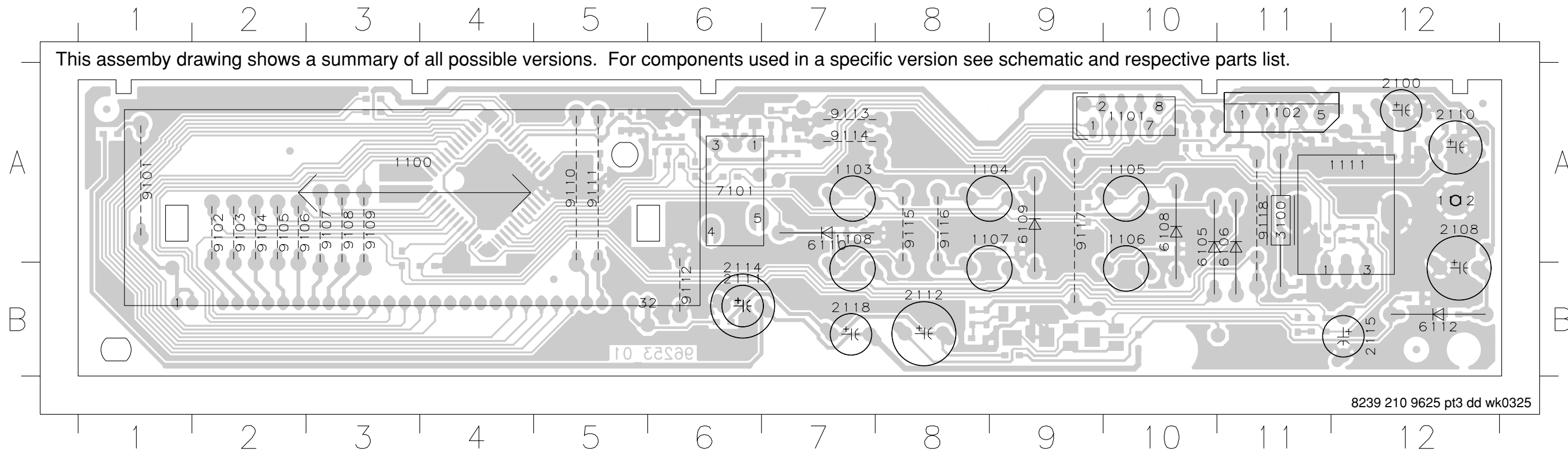
FRONT DISPLAY PART - CIRCUIT DIAGRAM

1100 A5	1103 E5	1106 E4	1111 D2	2101 C2	2104 F2	2107 C9	2110 E9	2113 F9	2116 B2	2119 C2	2122 C3	3101 E1	3104 D3	3107 C4	3110 B4	3113 F5	3117 E8	3120 F7	3123 F9	3127 B8	6100 C2	6106 F6	6110 F5	7101 E1	7104 F9
1101 D1	1104 E4	1107 E4	1112 A9	2102 C3	2105 F2	2108 C9	2111 F7	2114 F6	2117 A3	2120 C1	2123 C3	3102 F2	3105 D4	3108 C4	3111 F4	3115 B5	3118 E9	3121 E9	3125 C2	4101 C2	6101 F1	6108 F4	6112 C9	7102 F8	
1102 B1	1105 E4	1108 E5	2100 C2	2103 E1	2106 C5	2109 E8	2112 F8	2115 B2	2118 E7	2121 C1	3100 B3	3103 F2	3106 D3	3109 C4	3112 F4	3116 D9	3119 F7	3122 F9	3126 C2	4102 C2	6105 E6	6109 F4	7100 B6	7103 F8	

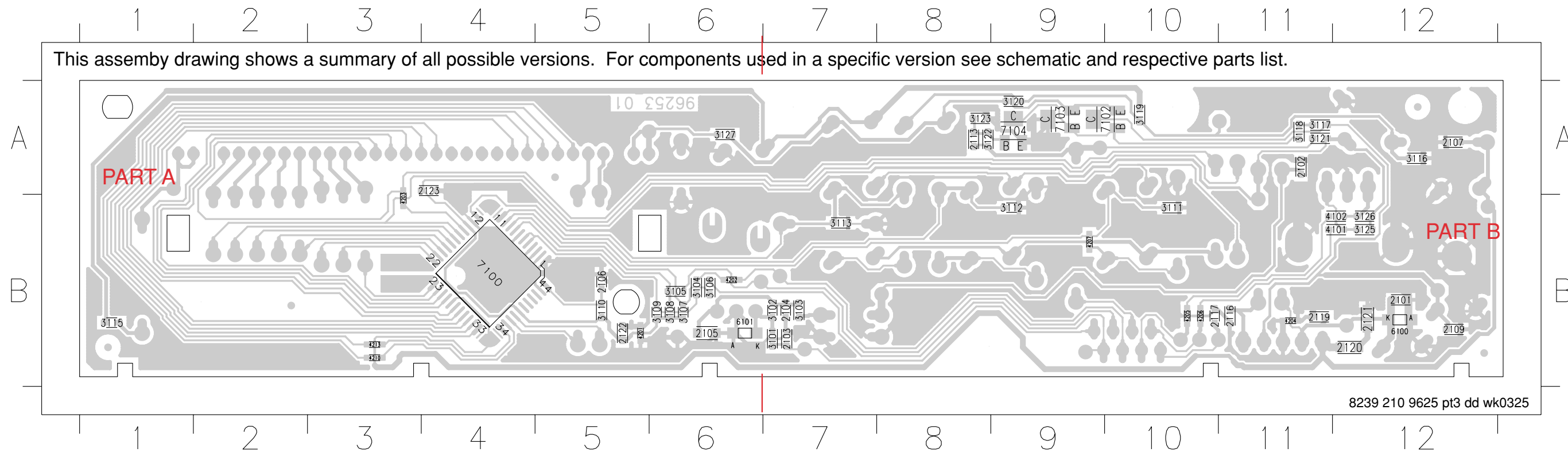


FRONT DISPLAY PART - COMPONENT & CHIP LAYOUT

1100 A3	1105 A10	1112 A12	2112 B8	6105 A10	6112 B12	9104 A2	9109 A3	9114 A7
1101 A10	1106 A10	2100 A12	2114 B6	6106 A11	7101 A6	9105 A2	9110 A5	9115 A8
1102 A11	1107 A8	2108 A12	2115 B12	6108 A10	9101 A1	9106 A2	9111 A5	9116 A8
1103 A7	1108 A7	2110 A12	2118 B7	6109 A9	9102 A2	9107 A3	9112 B6	9117 A9
1104 A8	1111 A12	2111 B6	3100 A11	6110 A7	9103 A2	9108 A3	9113 A7	9118 A11

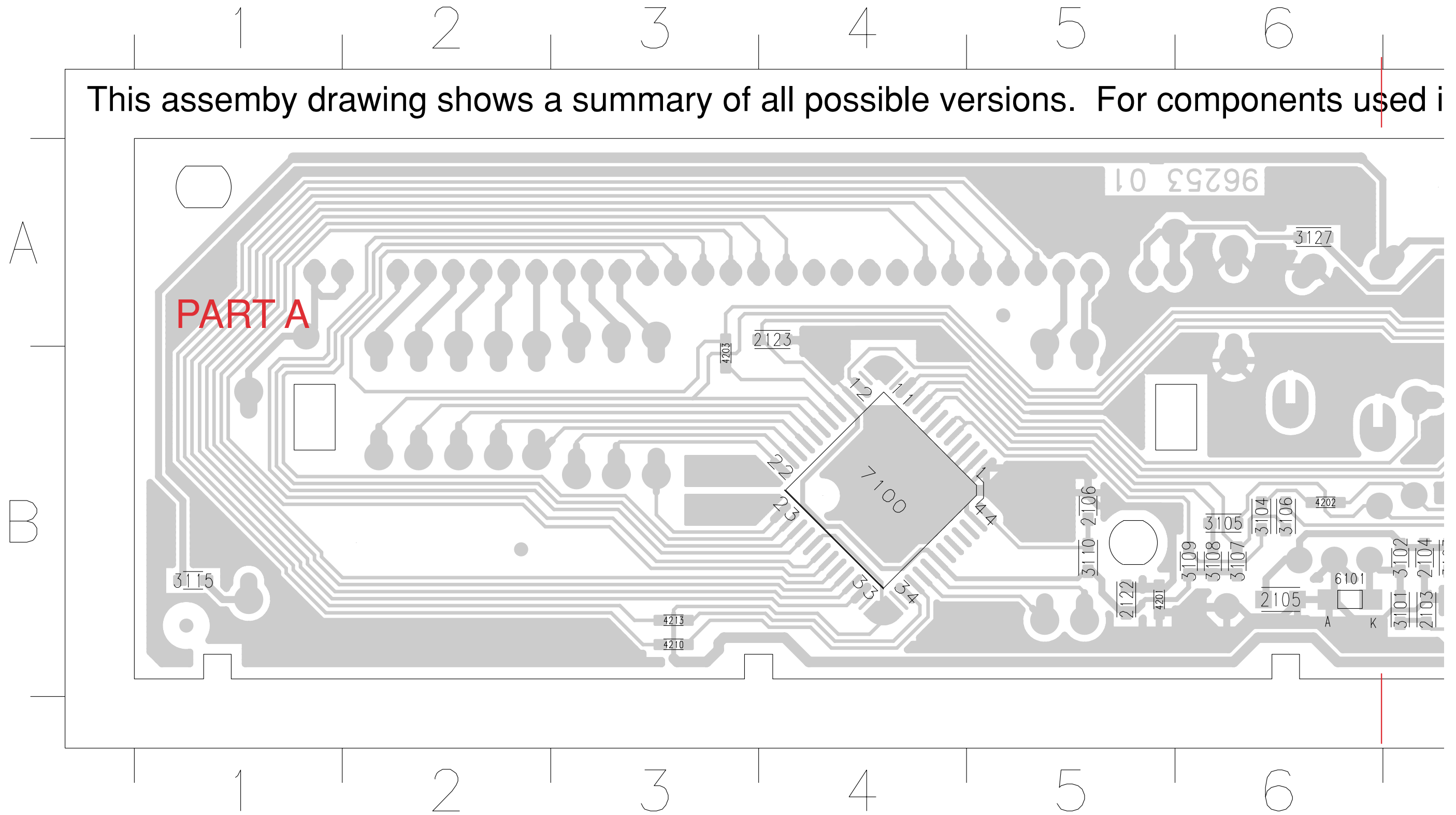


2101 B12	2106 B5	2117 B10	2123 A4	3105 B6	3110 B5	3116 A12	3121 A11	3127 A6	4203 B3	4210 B3	7102 A1C
2102 A11	2107 A12	2119 B11	3101 B7	3106 B6	3111 B10	3117 A11	3122 A8	4101 B12	4204 B11	4213 B3	7103 A9
2103 B7	2109 B12	2120 B12	3102 B7	3107 B6	3112 B9	3118 A11	3123 A8	4102 B12	4205 B1C	6100 B12	7104 A9
2104 B7	2113 A8	2121 B12	3103 B7	3108 B6	3113 B7	3119 A1C	3125 B12	4201 B5	4206 B1C	6101 B6	
2105 B6	2116 B11	2122 B5	3104 B6	3109 B6	3115 B1	3120 A9	3126 B12	4202 B6	4207 B9	7100 B4	



FRONT DISPLAY PART - CHIP LAYOUT PART A

This assembly drawing shows a summary of all possible versions. For components used i



FRONT DISPLAY PART - CHIP LAYOUT PART B

7

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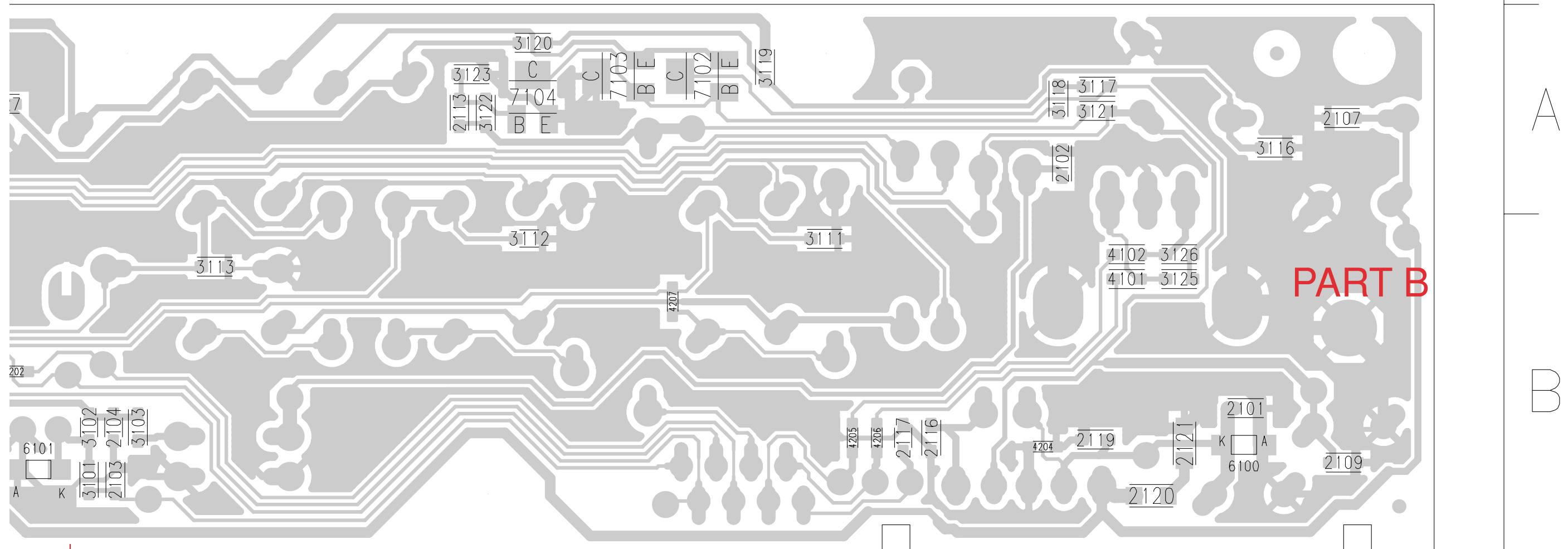
9

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12

parts used in a specific version see schematic and respective parts list.



8239 210 9625 pt3 dd wk0325

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ELECTRICAL PARTS LIST - FRONT BOARDS

MISCELLANEOUS

1101	4822 265 11515	CONN. BM V 8P F
1103	4822 276 13775	Tach Switch
1104	4822 276 13775	Tach Switch
1105	4822 276 13775	Tach Switch
1106	4822 276 13775	Tach Switch
1107	4822 276 13775	Tach Switch
1108	4822 276 13775	Tach Switch
1111	2422 129 16975	Rotary Encoder 12P
1201	4822 267 10733	CON BM V 4P F
1202	4822 276 13775	Tach Switch

RESISTORS

3100	4822 052 10478	4R70 5% 0,33W
------	----------------	---------------

DIODES

6105	4822 130 30621	1N4148
6106	4822 130 30621	1N4148
6108	4822 130 34173	BZX79-C5V6
6109	4822 130 34173	BZX79-C5V6
6110	4822 130 34173	BZX79-C5V6
6112	4822 130 34167	BZX79-B6V2
6201	9322 179 76676	LED VS LTL-816EELC
6202	4822 130 34173	BZX79-C5V6

TRANSISTORS & INTEGRATED CIRCUITS

7100	9322 186 03671	UPD16312GB-3B4
7101	9322 185 95667	IR RECEIVER TSOP4836
7102	4822 130 42804	BC817-25
7103	4822 130 60373	BC856B
7104	5322 130 60159	BC846B
7201	5322 130 60159	BC846B

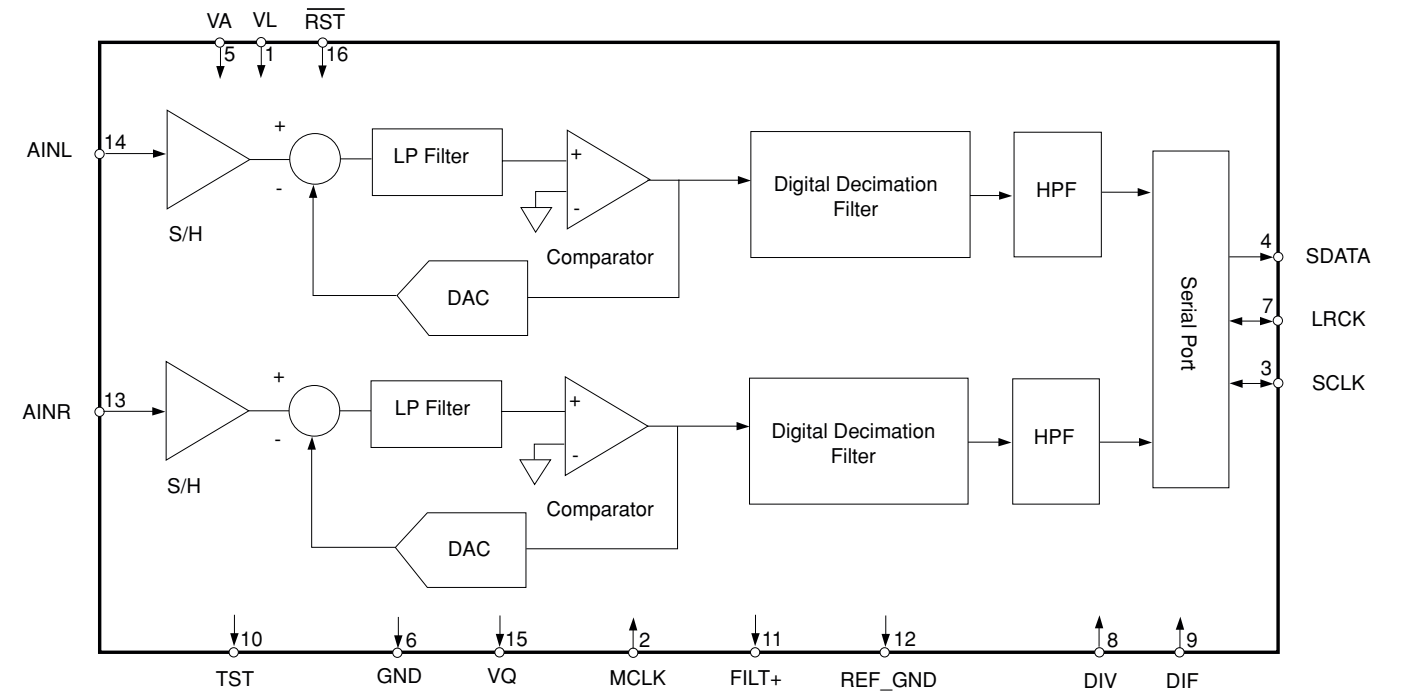
Note: Only the parts mentioned in this list are normal service spare parts.

AV BOARD

TABLE OF CONTENTS

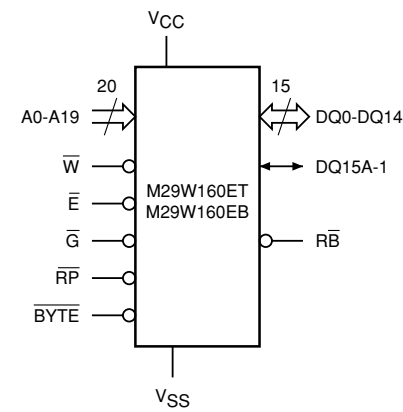
- CS5333 & M29W160ET Internal Block diagram 7-1
- Reset, Power Supply & Line-out Muting Circuit 7-2
- Servo and Front-end Circuit 7-3
- MPEG Decoder Circuit 7-4
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- Scart and Video out Circuit 7-6
- DAC and Pre-amplifier Circuit 7-7
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- Chip Layout - Bottom view (pcb3522pt3) 7-12
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- Electrical parts list 7-14

CS5333 Internal Block diagram



M29W160ET Internal Block diagram

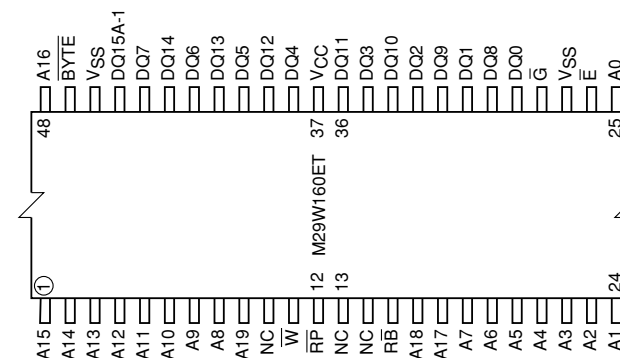
Logic Diagram



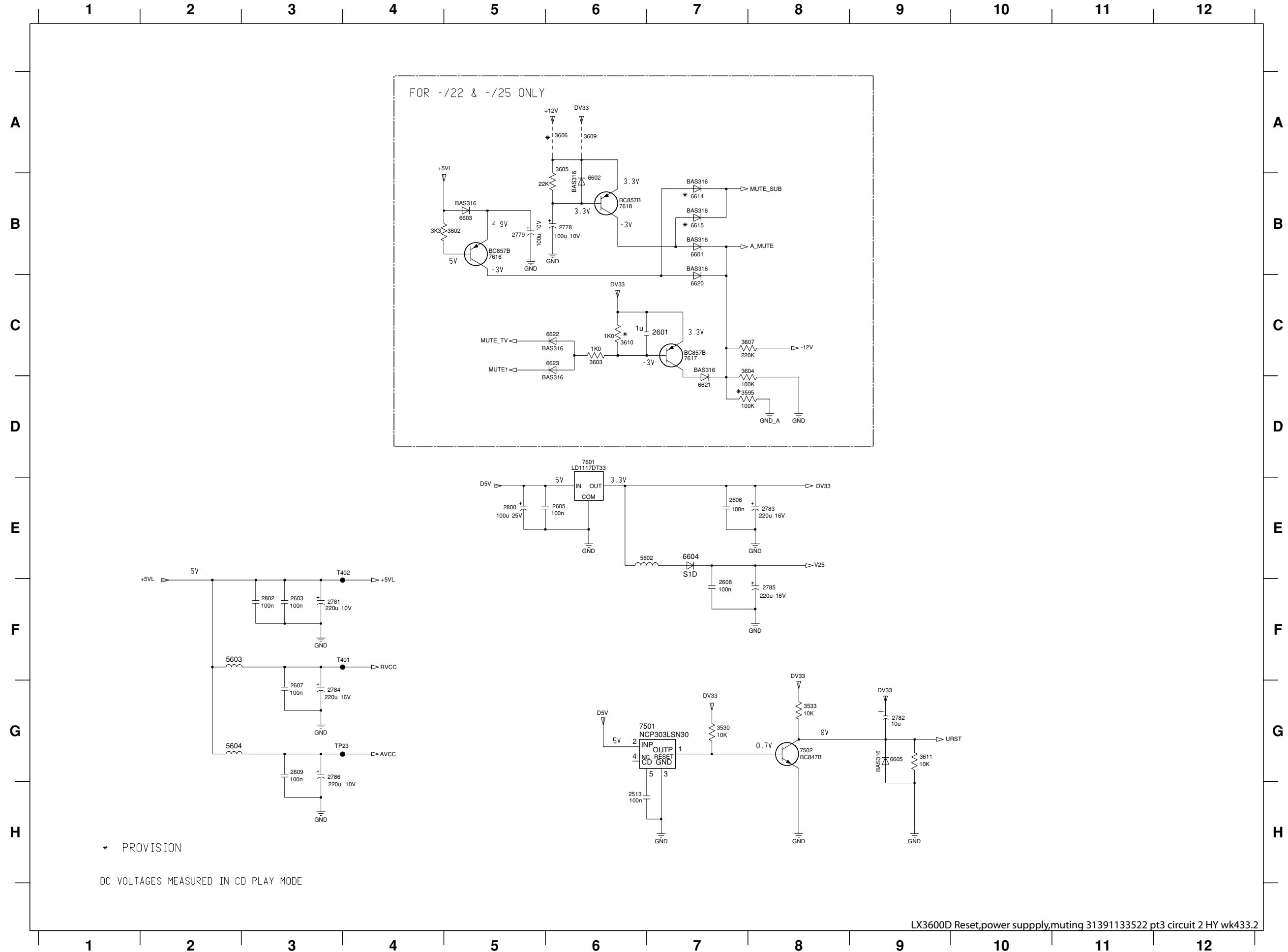
Signal Name

A0-A19	Address Inputs
DQ0-DQ7	Data Inputs/Outputs
DQ8-DQ14	Data Inputs/Outputs
DQ15A-1	Data Input/Output or Address Input
\bar{E}	Chip Enable
\bar{G}	Output Enable
\bar{W}	Write Enable
\bar{RP}	Reset/Block Temporary Unprotect
\bar{RB}	Ready/Busy Output
BYTE	Byte/Word Organization Select
VCC	Supply Voltage
VSS	Ground
NC	Not Connected Internally

Pin Connection

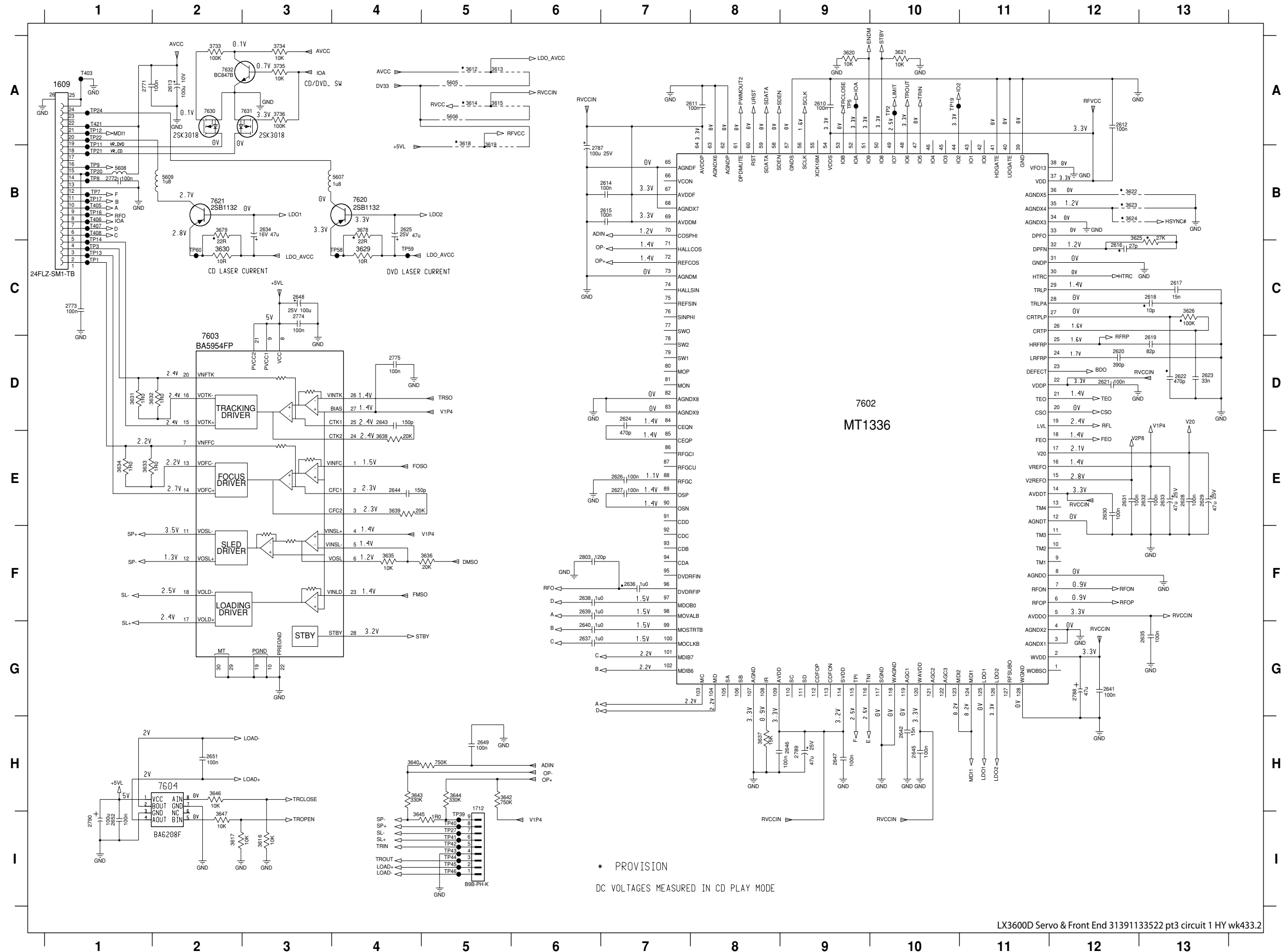


RESET, POWER SUPPLY & LINE-OUT MUTING CIRCUIT



- 2513 H6
- 2601 C7
- 2603 F3
- 2605 E6
- 2606 E7
- 2607 G3
- 2608 F7
- 2609 G3
- 2778 B6
- 2779 B5
- 2781 F3
- 2782 G9
- 2783 E8
- 2784 G3
- 2785 F8
- 2786 G3
- 2800 E5
- 2802 F3
- 3530 G7
- 3533 G8
- 3595 D7
- 3602 B5
- 3603 C6
- 3604 C7
- 3605 A6
- 3606 A6
- 3607 C7
- 3609 A6
- 3610 C6
- 3611 G9
- 5602 E6
- 5603 F2
- 5604 G2
- 6601 B7
- 6602 B6
- 6603 B5
- 6604 E7
- 6605 G9
- 6614 B7
- 6615 B7
- 6620 C7
- 6621 D7
- 6622 C6
- 6623 C6
- 7501 G6
- 7502 G8
- 7601 D6
- 7616 B5
- 7617 C7
- 7618 B6
- T401 F4
- T402 E4
- TP23 G3

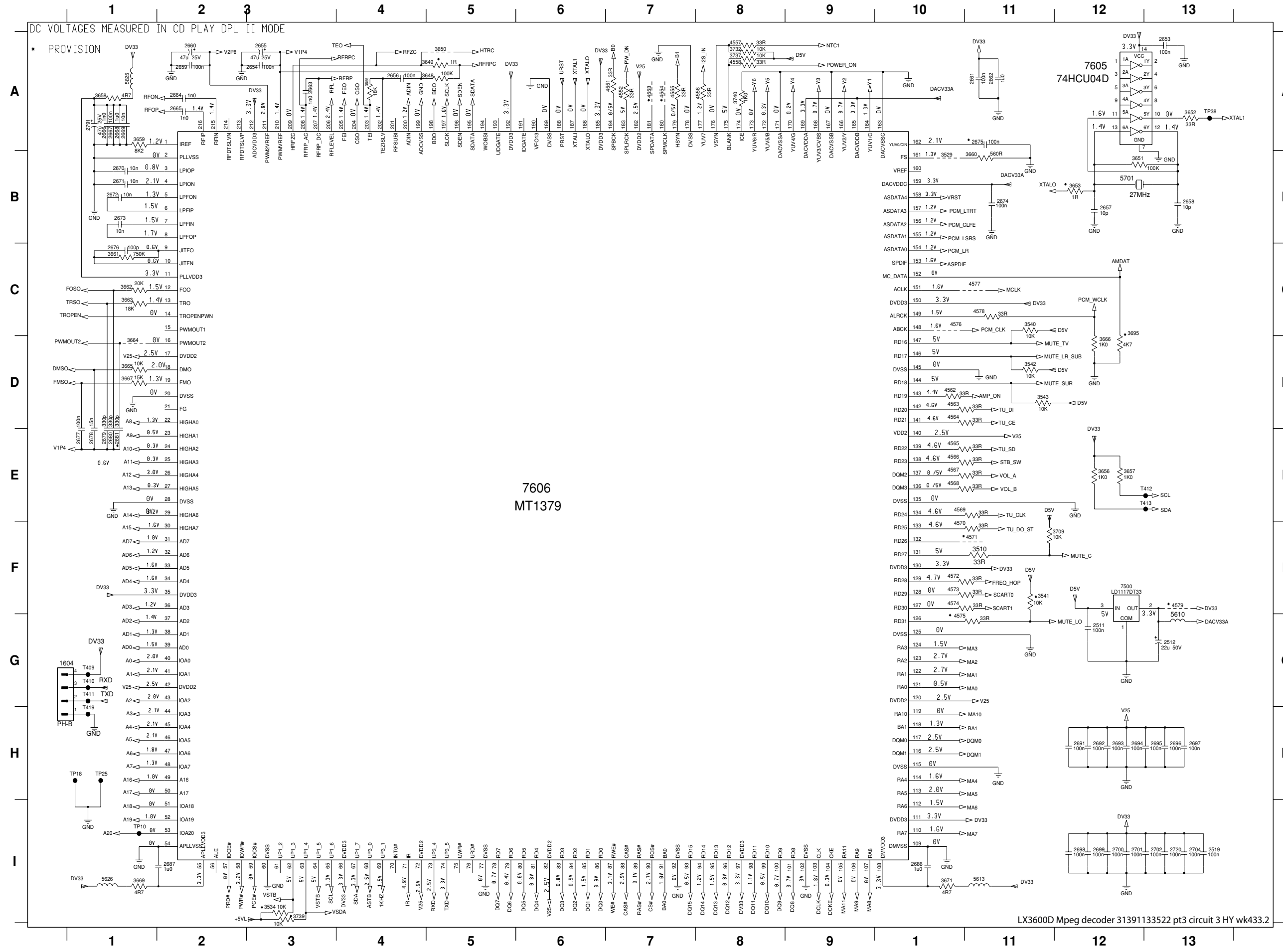
SERVO & FRONT-END CIRCUIT



* PROVISION
DC VOLTAGES MEASURED IN CD PLAY MODE

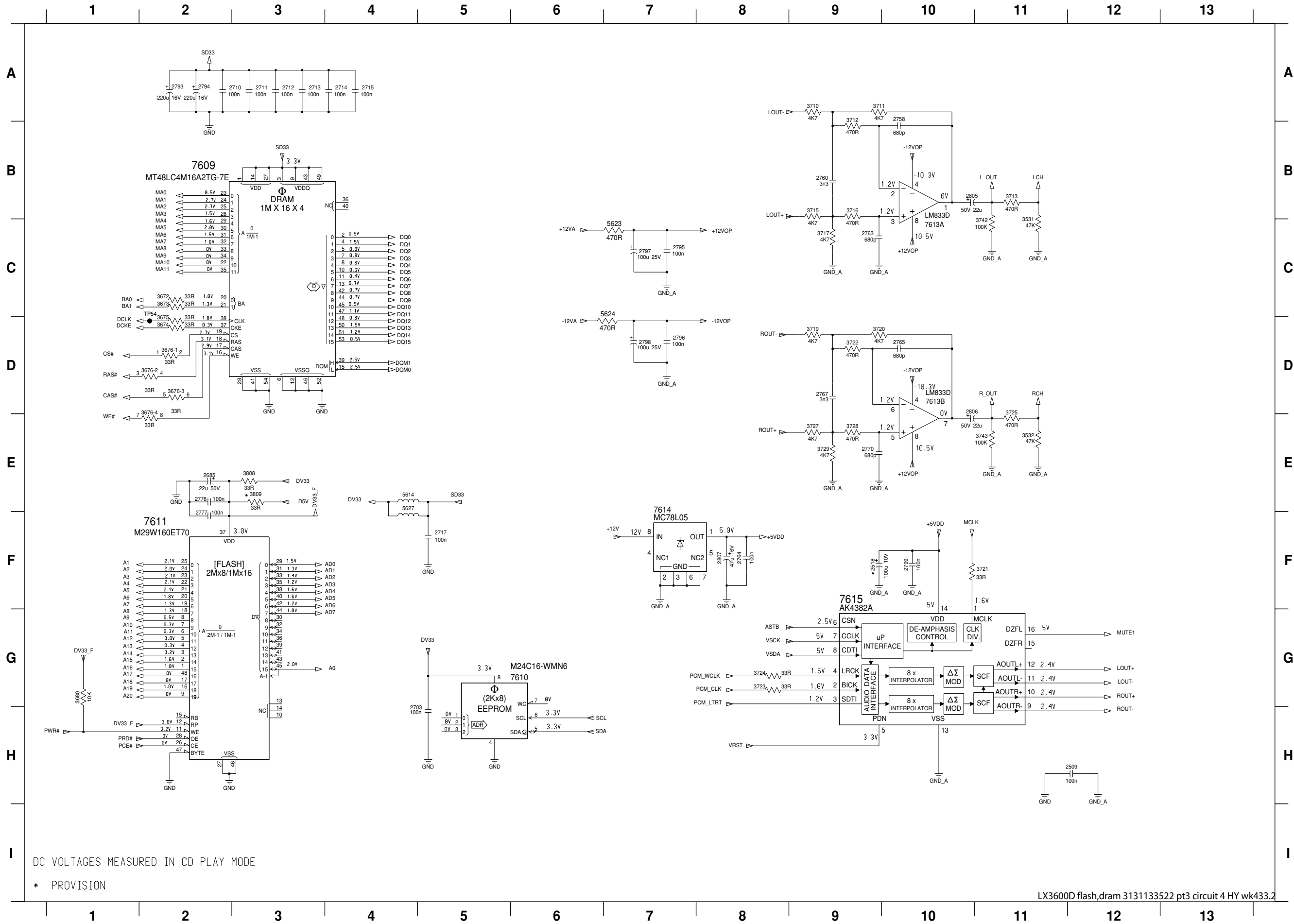
TP1 C1	T406 B1
TP2 A10	T407 B1
TP3 C1	T408 B1
TP5 A9	T421 A1
TP7 B1	TP11 B1
TP8 B1	TP12 A1
TP9 B1	TP13 C1
1609 A1	TP14 C1
1712 H5	TP16 B1
2610 A9	TP17 B1
2611 A8	TP19 A10
2612 A12	TP20 B1
2613 A2	TP21 B1
2614 B7	TP22 A1
2615 B7	TP24 A1
2616 C12	TP27 I5
2617 C13	TP39 I5
2618 C13	TP40 I5
2619 D13	TP41 I5
2620 D12	TP42 I5
2621 D12	TP43 I5
2622 D13	TP44 I5
2623 D13	TP45 I5
2624 D7	TP46 I5
2625 B4	TP58 C4
2626 E7	TP59 C4
2627 E7	TP60 C2
2628 E13	
2629 E13	
2630 E12	
2631 E12	
2632 E13	
2633 E13	
2634 B3	
2635 G13	
2636 F7	
2637 G6	
2638 F6	
2639 F6	
2640 G6	
2641 G12	
2642 H10	
2643 D4	
2644 E4	
2645 H10	
2646 H9	
2647 H9	
2648 C3	
2649 H5	
2651 H2	
2652 I1	
2771 A1	
2772 B1	
2773 C1	
2774 C3	
2775 D4	
2787 B6	
2788 G12	
2789 H9	
2790 I1	
2803 F6	
3612 A5	
3613 A5	
3614 A5	
3615 A5	
3616 I3	
3617 I2	
3618 B5	
3619 B5	
3620 A9	
3621 A10	
3622 B12	
3623 B12	
3624 B12	
3625 B12	
3626 C13	
3629 C4	
3630 C2	
3631 D1	
3632 D1	
3633 E1	
3634 E1	
3635 F4	
3636 F5	
3637 H8	
3638 E4	
3639 E4	
3640 H4	
3642 H5	
3643 H4	
3644 H5	
3645 I4	
3646 H2	
3647 I2	
3678 B4	
3679 B2	
3733 A2	
3734 A3	
3735 A3	
5005 A5	
5006 A5	
5007 B4	
5008 B1	
5009 B2	
7602 D9	
7603 D2	
7620 B4	
7630 A2	
7631 A2	
7632 A2	
T403 A1	
T405 B1	

MPEG DECODER CIRCUIT



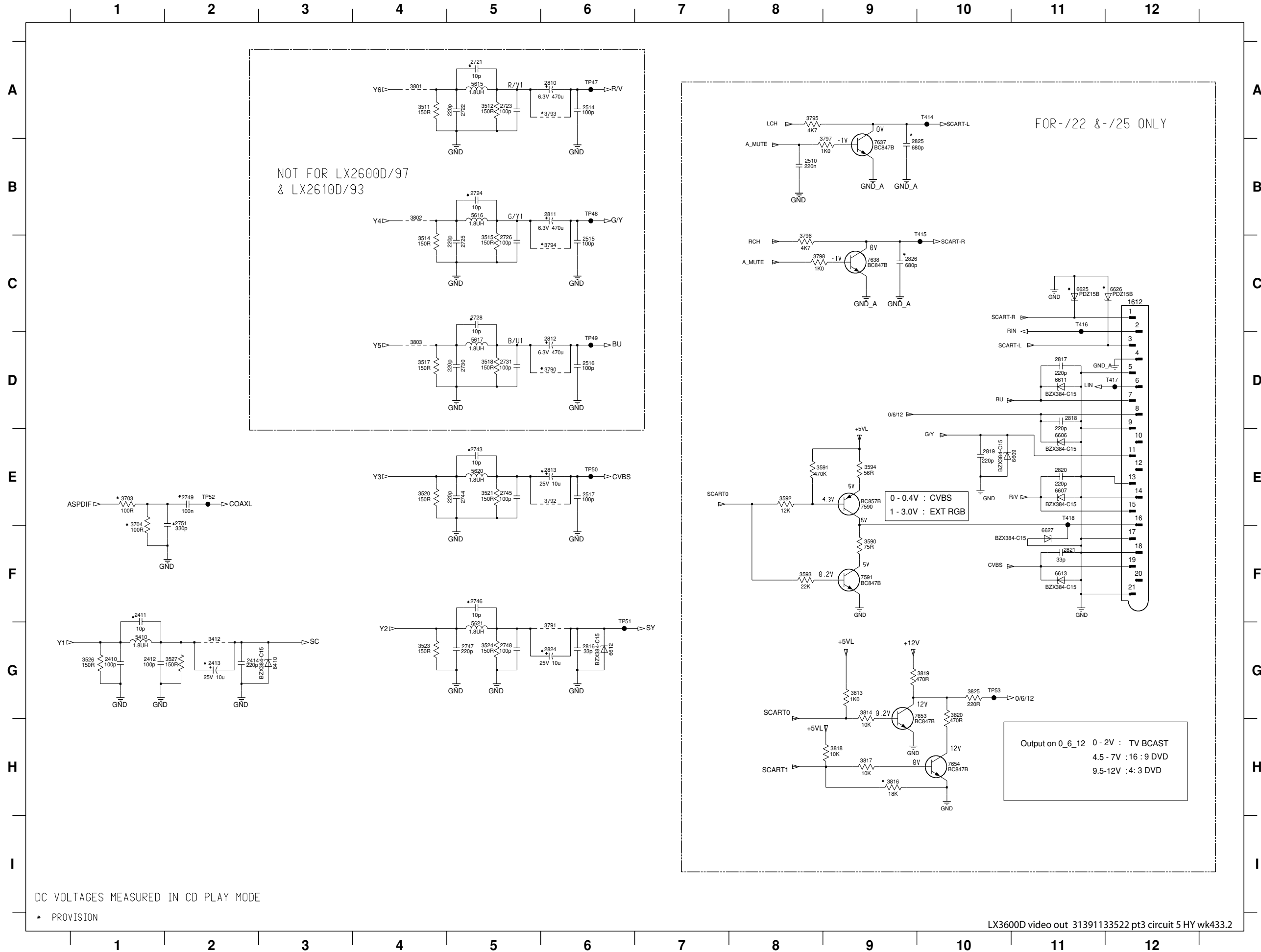
1604 G1	7605 A12
2511 G12	7606 E6
2512 G13	T409 G1
2519 H13	T410 G1
2653 A13	T411 G1
2654 A3	T412 E13
2655 A3	T413 E13
2656 A4	T419 H1
2657 B12	TP10 I1
2658 B13	TP18 H1
2660 A2	TP25 H1
2661 A11	TP38 A13
2662 A11	
2663 A3	
2664 A2	
2665 A2	
2666 A1	
2667 A1	
2668 A1	
2669 A1	
2670 B1	
2671 B1	
2672 B1	
2673 B1	
2674 B11	
2675 A11	
2676 C1	
2677 E1	
2678 E1	
2679 E1	
2680 E1	
2681 E1	
2686 H10	
2687 F2	
2691 H12	
2692 H12	
2693 H12	
2694 H12	
2695 H13	
2696 H13	
2697 H13	
2698 H12	
2699 H12	
2700 I12	
2701 I12	
2702 I13	
2704 I13	
2720 I13	
2791 A1	
3510 F11	
3529 E10	
3534 I3	
3540 C11	
3541 F11	
3542 D11	
3543 D11	
3648 A5	
3649 A5	
3650 A5	
3651 B12	
3652 A13	
3653 B12	
3655 A4	
3656 E12	
3657 E12	
3658 A1	
3659 A1	
3660 B11	
3661 C11	
3662 C1	
3663 C1	
3664 D1	
3665 D1	
3666 D12	
3667 D1	
3669 I1	
3671 I10	
3695 C12	
3709 F12	
3732 A8	
3737 A8	
3739 I3	
3740 A8	
4551 A7	
4552 A7	
4553 A7	
4554 A7	
4555 A7	
4556 A8	
4557 A8	
4558 A8	
4562 D10	
4563 D10	
4564 D10	
4565 E10	
4566 E10	
4567 E10	
4568 E10	
4569 E10	
4570 F10	
4571 F11	
4572 F10	
4573 F10	
4574 F10	
4575 G10	
4576 G10	
4577 C11	
4578 C11	
4579 F13	
5610 G13	
5613 H1	
5625 A1	
5626 H1	
5701 B12	
7500 F12	

FLASH, DRAM, LINE-OUT DAC & PRE-AMPLIFIER CIRCUIT



- 2509 H12
- 2518 F9
- 2685 E2
- 2703 G4
- 2710 A3
- 2711 A3
- 2712 A3
- 2713 A3
- 2714 A4
- 2715 A4
- 2717 F5
- 2758 A10
- 2760 B9
- 2763 C9
- 2764 F8
- 2765 D10
- 2767 D9
- 2770 E9
- 2776 E2
- 2777 F2
- 2793 A2
- 2794 A2
- 2795 C7
- 2796 D7
- 2797 C7
- 2798 D7
- 2799 F10
- 2805 B10
- 2806 D10
- 2807 F8
- 3531 B11
- 3532 E11
- 3672 C2
- 3673 C2
- 3674 D2
- 3675 D2
- 3676-1 D2
- 3676-2 D2
- 3676-3 D2
- 3676-4 E2
- 3680 G1
- 3710 A9
- 3711 A9
- 3712 B9
- 3713 B11
- 3715 B9
- 3716 B9
- 3717 C9
- 3719 D9
- 3720 D9
- 3721 F11
- 3722 D9
- 3723 G8
- 3724 G8
- 3725 E11
- 3727 E9
- 3728 E9
- 3729 E9
- 3742 B11
- 3743 E11
- 3808 E3
- 3809 E3
- 5614 E4
- 5623 C7
- 5624 C7
- 5627 E4
- 7609 B2
- 7610 G6
- 7611 F2
- 7613A C10
- 7613B D10
- 7614 F7
- 7615 F9
- TP54 C2

SCART & VIDEO OUT CIRCUIT



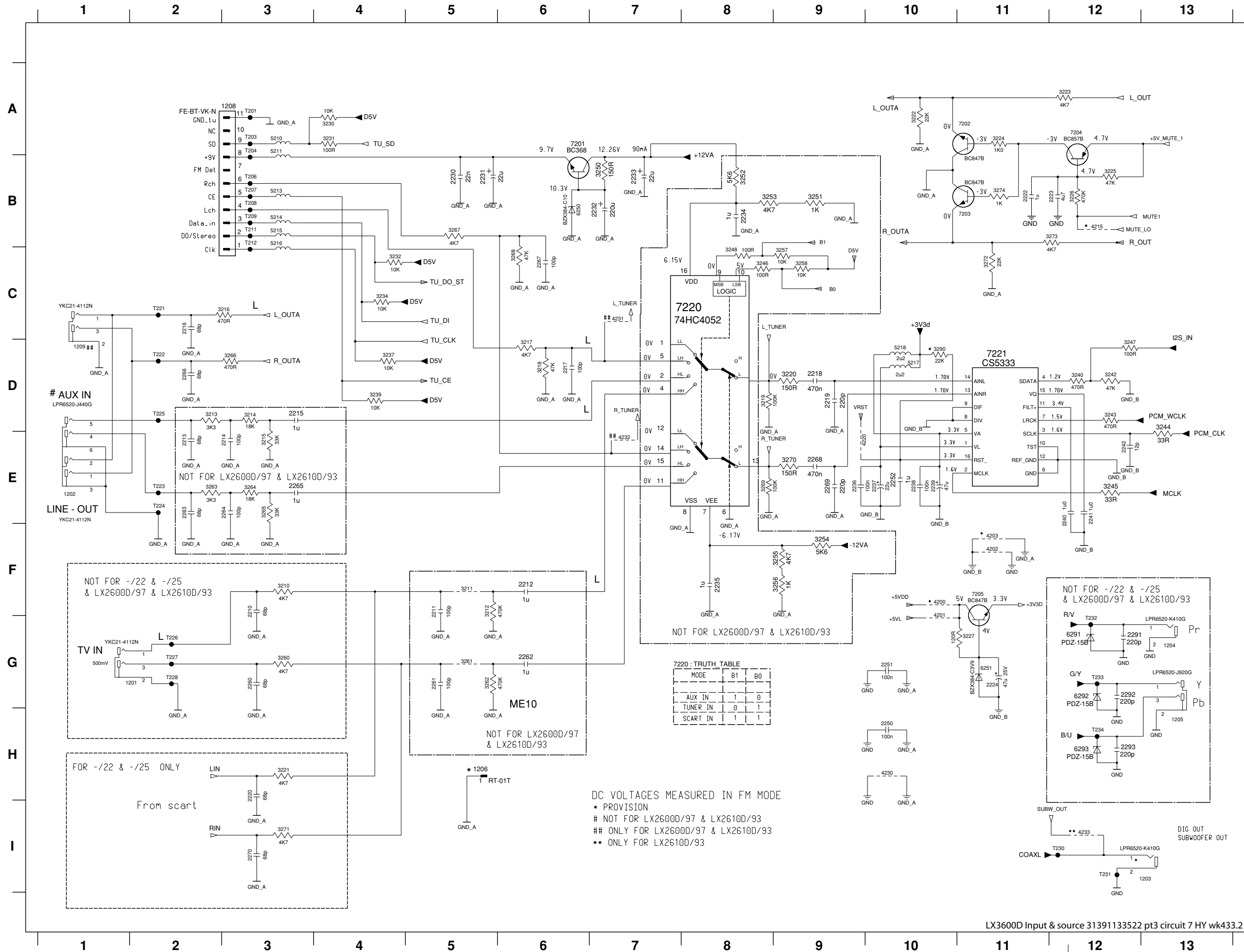
- 1612 C12
- 2410 G1
- 2411 F1
- 2412 G1
- 2413 G2
- 2414 G2
- 2510 B8
- 2514 A6
- 2515 C6
- 2516 D6
- 2517 E6
- 2721 A5
- 2722 A5
- 2723 A5
- 2724 B5
- 2725 C5
- 2726 C5
- 2728 C5
- 2730 D5
- 2731 D5
- 2743 E5
- 2744 E5
- 2745 E5
- 2746 F5
- 2747 G5
- 2748 G5
- 2749 E2
- 2751 E2
- 2810 A6
- 2811 B6
- 2812 D6
- 2813 E6
- 2816 G6
- 2817 D11
- 2818 D11
- 2819 E10
- 2820 E11
- 2821 F11
- 2824 G6
- 2825 B10
- 2826 C9
- 3412 G2
- 3511 A4
- 3512 A5
- 3514 C4
- 3515 C5
- 3517 D4
- 3518 D5
- 3520 E4
- 3521 E5
- 3523 G4
- 3524 G5
- 3526 G1
- 3527 G2
- 3590 F9
- 3591 E8
- 3592 E8
- 3593 F8
- 3594 E9
- 3703 E1
- 3704 E1
- 3790 D6
- 3791 G6
- 3792 E6
- 3793 A6
- 3794 C6
- 3795 A8
- 3796 C8
- 3797 B9
- 3798 C8
- 3801 A4
- 3802 B4
- 3803 D4
- 3813 G9
- 3814 G9
- 3816 H9
- 3817 H9
- 3818 H9
- 3819 G10
- 3820 G10
- 3825 G10
- 5410 G1
- 5615 A5
- 5616 B5
- 5617 D5
- 5620 E5
- 5621 G5
- 6410 G3
- 6606 E11
- 6607 E11
- 6609 E11
- 6611 D11
- 6612 G6
- 6613 F11
- 6625 C11
- 6626 C12
- 6627 F11
- 7590 F9
- 7591 F9
- 7637 B9
- 7638 C9
- 7653 G9
- 7654 H10
- T414 A10
- T415 C10
- T416 C11
- T417 D12
- T418 E11
- TP47 A6
- TP48 B6
- TP49 D6
- TP50 E6

DC VOLTAGES MEASURED IN CD PLAY MODE

* PROVISION

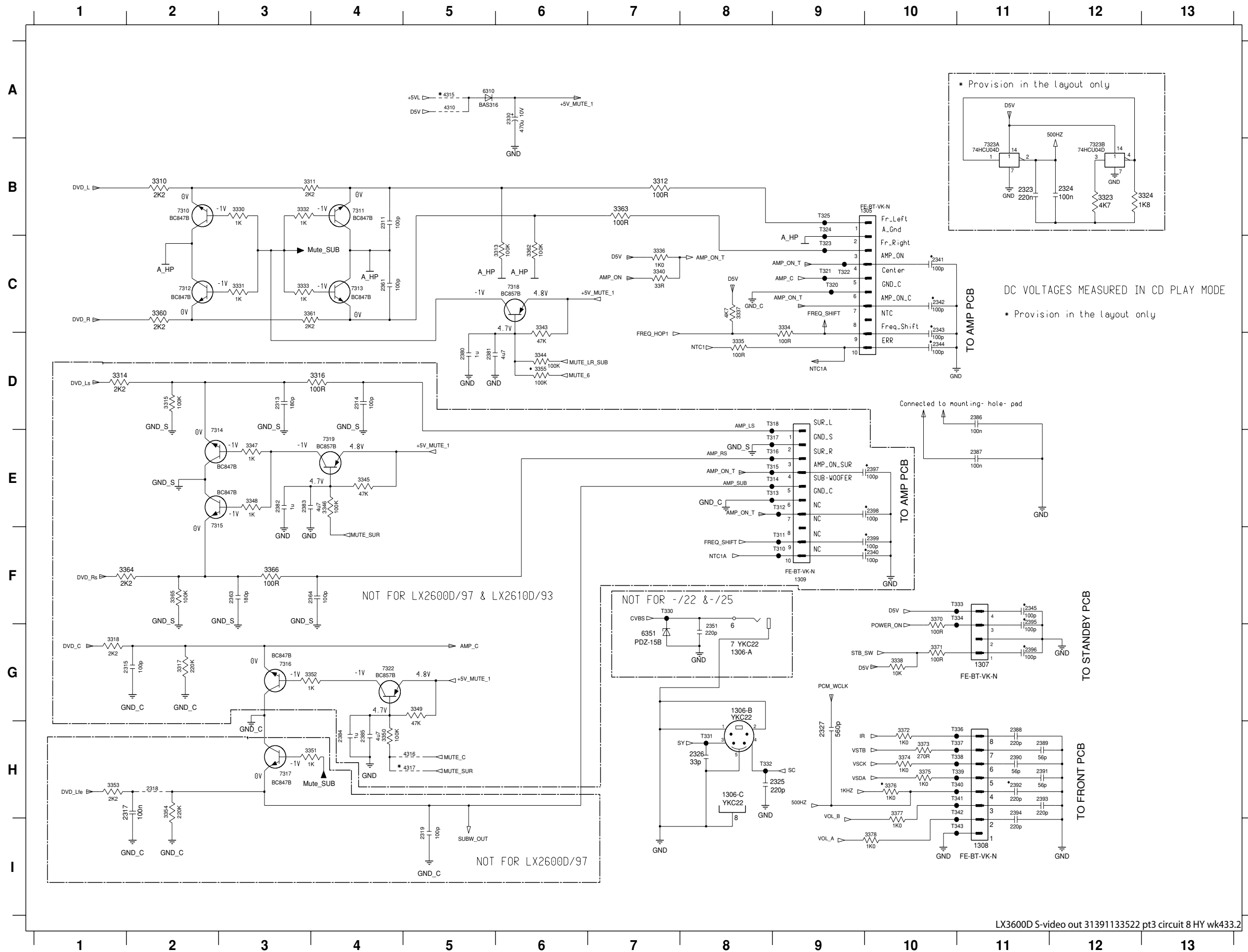
LX3600D video out 31391133522 pt3 circuit 5 HY wk433.2

INPUT & SOURCE SELECTION CIRCUIT



- 1201 G2
- 1202 E1
- 1203 I13
- 1204 G13
- 1205 H13
- 1206 H5
- 1208 A3
- 2210 F3
- 2211 F5
- 2212 F6
- 2213 E2
- 2214 E3
- 2215 D3
- 2216 C2
- 2217 D6
- 2218 D9
- 2219 D9
- 2220 H3
- 2222 B11
- 2223 B12
- 2224 G11
- 2230 B5
- 2231 B5
- 2232 B7
- 2233 B7
- 2234 B8
- 2235 F8
- 2236 E9
- 2237 E10
- 2238 E10
- 2239 E10
- 2240 E12
- 2241 E12
- 2242 E12
- 2243 E12
- 2250 H10
- 2251 G10
- 2252 E10
- 2260 G3
- 2261 G5
- 2262 G6
- 2263 E2
- 2264 E3
- 2265 E3
- 2266 D2
- 2267 C6
- 2268 E9
- 2269 E9
- 2270 I3
- 2291 G12
- 2292 G12
- 2293 H12
- 3210 F3
- 3211 F5
- 3212 F5
- 3213 D2
- 3214 D3
- 3215 E3
- 3216 C3
- 3217 D6
- 3218 D6
- 3219 D8
- 3220 D9
- 3221 H3
- 3222 A10
- 3223 A12
- 3224 A11
- 3225 B12
- 3226 B12
- 3227 G11
- 3230 A4
- 3231 A4
- 3232 C4
- 3234 C4
- 3237 D4
- 3239 D4
- 3240 D12
- 3242 D12
- 3243 D12
- 3244 D13
- 3245 E12
- 3246 C8
- 3247 D12
- 3248 C8
- 3250 B7
- 3251 B9
- 3252 B8
- 3253 B8
- 3254 F9
- 3255 F9
- 3256 F9
- 3257 C9
- 3258 C9
- 3260 G3
- 3261 G5
- 3262 G5
- 3263 E2
- 3264 E3
- 3265 E3
- 3266 D3
- 3267 B5
- 3268 C6
- 3269 E8
- 3270 E9
- 3271 I3
- 3272 C11
- 3273 B12
- 3274 B11
- 3290 D10
- 4200 F10
- 4201 G10
- 4202 F11
- 4203 F11
- 4215 B12
- 4220 E9
- 4230 H10
- 4231 C7
- 4232 E7
- 4233 I12
- 5210 A3
- 5211 A3
- 5213 B3
- 5214 B3
- 5215 B3
- 5216 B3
- 5217 D10
- 5218 D10
- 6250 B6
- 6251 G11
- 6291 G12
- 6292 G12
- 6293 H12
- 7201 A6
- 7202 A11
- 7203 B11
- 7204 A12
- 7205 F11
- 7220 C7
- 7221 D11
- T201 A3
- T203 A3
- T204 A3
- T206 B3
- T207 B3
- T208 B3
- T209 B3
- T211 B3
- T212 B3
- T221 C2
- T222 D2
- T223 E2
- T224 E2
- T225 D2
- T226 G2
- T227 G2
- T228 G2
- T230 I12
- T231 I12
- T232 G12
- T233 G12
- T234 H12

MUTING (6-CHANNEL) & S-VIDEO OUT CIRCUIT

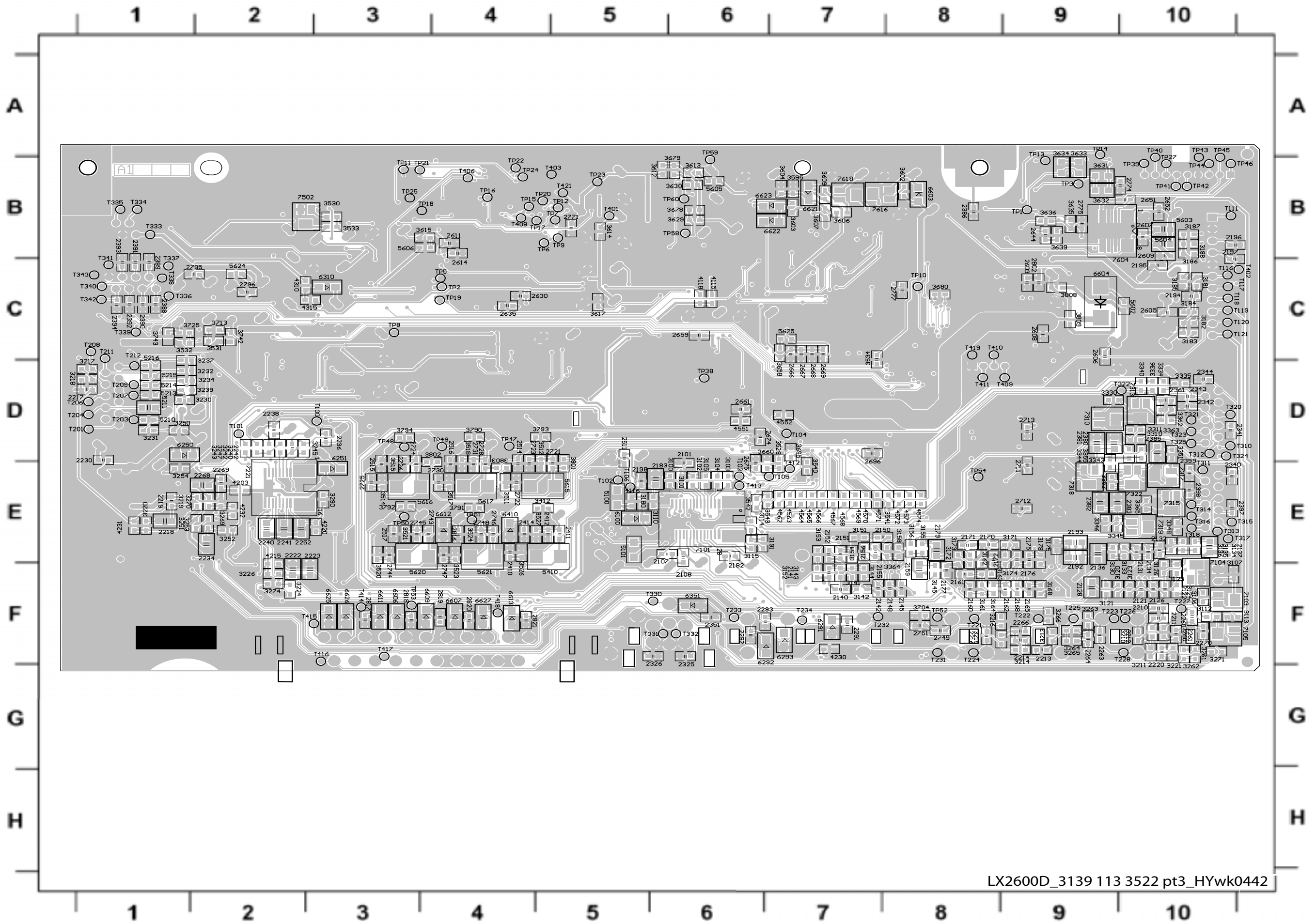


- 1305 B9
- 1306-A G8
- 1306-B G8
- 1306-C H8
- 1307 G11
- 1308 I11
- 1309 F9
- 2311 B4
- 2313 D3
- 2314 D4
- 2315 G2
- 2317 H2
- 2318 H2
- 2319 I5
- 2323 B11
- 2324 B12
- 2325 H9
- 2326 H8
- 2327 H9
- 2330 A6
- 2340 F10
- 2341 C10
- 2342 C10
- 2343 C10
- 2344 D10
- 2345 F11
- 2351 F8
- 2361 C4
- 2363 F3
- 2364 F4
- 2380 D5
- 2381 D5
- 2382 E3
- 2383 E3
- 2384 H4
- 2385 H4
- 2386 D11
- 2387 E11
- 2388 H11
- 2389 H11
- 2390 H11
- 2391 H11
- 2392 H11
- 2393 H11
- 2394 H11
- 2395 F11
- 2396 G11
- 2397 E10
- 2398 E10
- 2399 F10
- 3310 B2
- 3311 B3
- 3312 B7
- 3313 C6
- 3314 D1
- 3315 D2
- 3316 D4
- 3317 G2
- 3318 G1
- 3323 B12
- 3324 B13
- 3330 B3
- 3331 C3
- 3332 B3
- 3333 C3
- 3334 C9
- 3335 D8
- 3336 E7
- 3337 C8
- 3338 G10
- 3340 F7
- 3343 C6
- 3344 D6
- 3345 E4
- 3346 E4
- 3347 E3
- 3348 E3
- 3349 G5
- 3350 H4
- 3351 H3
- 3352 G4
- 3353 H1
- 3354 H2
- 3355 D6
- 3360 C2
- 3361 C3
- 3362 C6
- 3363 B7
- 3364 F2
- 3365 F2
- 3366 F3
- 3370 F10
- 3371 G10
- 3372 H10
- 3373 H10
- 3374 H10
- 3375 H10
- 3376 H10
- 3377 H10
- 3378 I10
- 4310 A5
- 4315 A5
- 4316 H5
- 4317 H5
- 6310 A5
- 6351 G7
- 7310 B2
- 7311 B4
- 7312 C2
- 7313 C4
- 7315 B9
- 7316 G3
- 7317 H3
- 7318 C6
- 7319 E4
- 7322 G4
- 7323A B11
- 7323B B12
- 7310 F9
- 7311 F9
- 7312 E9
- 7313 E9
- 7314 E9
- 7315 E9
- 7316 E9
- 7317 E9
- 7318 D9
- 7319 E9
- 7320 C9
- 7321 C9
- 7322 C9
- 7323 C9
- 7324 B9
- 7325 B9
- 7330 F7
- 7331 H8
- 7332 H8
- 7333 F11
- 7334 F11
- 7336 H11
- 7337 H11
- 7338 H11
- 7339 H11
- 7340 H11
- 7341 H11
- 7342 H11
- 7343 I11

PCB 31311352 pt3 TOP VIEW MAPPING

1101	B1	2384	E2	2767	C10	3361	D1	3816	F7	2154	F3	2649	B2	3150	E4	3656	C3	6614	B4
1102	F6	2387	B10	2770	D10	3366	E1	3817	F7	2157	E4	2653	D5	3157	E3	3657	C3	6615	B4
1103	F9	2395	B10	2772	B7	3370	B10	3818	F7	2158	F4	2654	C7	3159	E4	3659	C5	6620	B4
1104	F1	2396	B10	2773	B7	3371	B10	3819	F7	2163	F2	2655	B8	3160	F3	3661	B4	7100	E6
1201	F1	2413	E6	2776	C4	3372	C10	3820	F7	2164	F2	2656	C7	3165	F2	3662	B4	7102	E5
1202	F2	2509	C9	2778	A4	3373	C10	3825	F7	2166	F3	2657	D5	3166	F2	3663	C4	7121	F1
1203	F3	2510	F8	2779	A4	3374	C10	4107	E5	2167	F2	2658	D5	3167	F2	3664	B4	7141	F4
1204	F4	2512	D6	2781	A5	3375	C10	4108	F4	2169	F3	2660	C5	3169	F2	3665	B4	7161	F3
1205	F5	2513	B8	2782	B8	3376	C10	4110	F4	2173	F2	2662	C2	3170	E3	3666	E4	7201	D10
1206	E4	2518	C9	2783	C2	3377	C10	4111	F4	2174	F2	2663	D7	3176	F2	3667	B4	7202	F9
1208	D10	2519	E5	2784	B6	3378	C10	4112	F4	2178	E4	2664	C5	3177	F2	3669	C3	7203	F9
1305	D1	2601	B4	2785	C2	3510	E4	4114	E5	2180	F5	2665	C5	3179	E2	3671	E3	7204	F9
1306	F6	2610	C8	2786	B6	3590	F7	4117	D6	2181	F5	2670	B5	3189	E6	3672	D3	7205	E8
1307	B10	2612	B8	2787	C6	3591	F7	4200	D8	2185	B6	2671	B5	3222	F9	3673	E3	7220	E9
1308	C10	2613	B6	2788	C6	3592	F7	4201	E8	2186	C1	2672	B4	3223	F9	3674	E3	7311	D1
1309	E1	2615	B8	2789	B8	3593	F7	4202	E9	2187	B1	2673	B4	3225	F8	3675	E3	7312	D1
1604	C3	2616	D7	2790	B3	3594	F7	4233	F1	2188	F3	2676	B4	3227	D8	3676	D3	7314	E1
1609	B7	2617	C7	2791	C5	3605	B4	4316	E4	2189	F2	2677	B4	3244	D9	3703	E4	7316	D2
1612	F7	2618	D7	2793	D2	3610	B4	4317	E4	2190	E3	2678	C5	3246	E9	3709	E4	7323	F10
1712	A1	2619	D7	2794	E2	3611	B8	4553	D6	2191	E3	2679	C5	3248	E9	3710	C9	7500	D5
2100	E5	2620	C7	2797	C9	3616	C8	4554	D6	2212	E10	2680	B4	3255	E10	3711	C9	7501	B8
2102	E5	2621	C7	2798	C9	3618	B8	4555	D6	2215	E9	2681	B8	3256	E10	3712	C9	7590	F7
2103	E5	2622	C7	2799	C9	3619	B8	4556	D6	2224	E8	2685	C2	3257	E10	3715	C9	7591	F7
2105	E5	2623	C7	2800	C1	3620	C8	4557	E5	2231	D10	2686	D3	3258	E9	3716	C9	7601	C2
2106	F6	2624	B7	2803	B7	3621	C8	4558	E5	2232	D10	2687	C3	3267	D10	3717	C9	7602	C7
2109	E5	2625	B5	2805	C9	3622	C8	4576	E4	2233	E10	2691	E4	3268	D10	3719	C10	7603	B2
2110	E5	2626	B7	2806	C9	3623	C7	4577	E5	2235	E10	2692	C4	3272	F9	3720	C10	7605	D6
2111	E5	2627	B7	2807	B9	3624	C7	4578	E4	2237	D8	2693	D5	3273	F9	3721	C8	7606	D4
2112	E6	2628	C7	2810	D7	3625	C7	4579	E4	2239	D9	2694	D3	3312	D1	3722	C10	7609	E3
2113	F4	2629	C8	2811	D8	3626	C7	5110	E5	2250	F8	2695	D3	3313	D1	3723	C8	7610	C3
2114	E6	2631	C7	2812	D7	3637	B6	5111	E5	2251	F9	2697	C4	3314	E2	3724	D8	7611	C3
2120	F2	2632	D7	2813	E8	3638	B2	5217	E8	2262	E9	2698	C5	3315	E1	3727	D10	7613	C9
2123	F1	2633	D8	2824	E7	3640	B7	5218	E9	2265	E9	2699	E4	3316	E1	3728	C10	7614	B9
2124	F2	2634	B5	2825	F8	3642	C5	5607	B6	2267	D10	2700	D5	3317	E2	3729	D10	7615	D8
2125	F1	2636	B7	2826	F8	3643	A7	5608	B6	2311	D1	2701	E4	3318	E2	3732	E5	7617	B4
2127	F2	2637	B7	3108	E6	3644	A7	5609	A6	2313	E1	2702	D3	3323	F10	3733	B8	7620	B5
2129	F1	2638	B7	3122	F2	3645	A2	5610	D5	2314	E1	2703	C3	3324	F10	3734	B8	7621	B5
2130	E2	2639	B7	3127	F1	3646	C8	5613	E3	2315	E2	2704	C4	3331	D2	3735	B7	7630	B8
2133	E1	2640	B7	3131	F2	3647	B4	5614	C2	2317	E1	2710	D3	3332	D2	3736	B7	7631	B8
2135	E2	2641	C7	3132	E2	3648	D7	5623	B2	2318	E1	2714	D3	3333	D1	3737	E5	7632	B7
2143	F3	2642	C6	3137	E1	3649	D7	5626	C3	2319	D1	2715	D2	3337	E10	3739	B2	7637	F8
2144	F3	2643	B2	3140	F4	3650	D7	5627	C2	2323	F10	2717	D3	3338	E4	3740	D5	7638	F8
2146	F4	2645	B6	3146	F3	3651	D5	5701	D5	2324	F10	2720	D3	3347	E2	3795	F8	7653	F7
2147	F3	2646	C6	3147	F3	3652	D5	6601	B4	2327	D9	2758	C9	3349	E2	3796	F8	7654	F7
2149	F4	2647	B6	3148	F3	3653	D5	6602	B4	2330	C8	2760	C9	3350	E2	3797	F8		
2153	F3	2648	B1	3149	F4	3655	C7	6605	B9	2345	B10	2763	C9	3353	E1	3798	F8		
										2363	E1	2764	B9	3354	E1	3813	F7		
										2364	E1	2765	C10	3360	D1	3814	F7		

PCB 3139 113 3522 pt3 BOTTOM VIEW - Use by LX2600D/97



PCB 3139 113 3522 pt3 BOTTOM VIEW MAPPING

2101	D6	2393	B1	3142	E7	3511	D4	5213	D1	2216	E9	2743	E4	3232	C2	3695	D7	7317	D10
2107	E6	2394	C1	3143	E7	3512	D5	5214	C1	2217	C1	2744	E3	3234	C2	3704	E8	7318	D9
2108	E6	2397	D10	3144	E7	3514	D3	5215	C1	2218	E1	2746	E4	3237	C2	3713	C2	7319	E10
2121	E10	2398	D10	3145	E8	3515	D3	5216	C1	2219	D1	2748	E4	3239	C2	3725	C2	7322	D10
2122	E10	2399	D10	3151	E7	3517	D4	5410	E5	2220	F10	2747	E4	3240	D2	3742	C2	7502	B3
2126	E10	2410	E4	3152	E7	3518	D4	5602	C9	2222	E2	2748	E4	3242	D2	3743	C1	7604	B9
2128	E9	2411	E5	3153	E7	3520	E3	5603	B10	2223	E3	2749	F8	3243	D2	3790	D4	7616	B7
2131	E10	2412	E5	3154	E7	3521	E3	5604	B10	2230	D1	2751	E8	3245	D3	3791	D4	7618	B7
2132	E10	2414	E4	3155	E8	3523	E4	5605	B6	2234	E2	2771	B5	3247	D2	3792	D3		
2134	E10	2511	D5	3156	E8	3524	E4	5606	B4	2236	D3	2774	B9	3250	D2	3793	D5		
2136	E9	2514	D4	3158	E8	3526	E4	5615	D5	2238	D2	2775	B9	3251	E2	3794	D3		
2137	E10	2515	D3	3161	E8	3527	E5	5616	D3	2240	E2	2777	C8	3252	E2	3801	D5		
2140	E7	2516	D4	3162	E8	3529	D7	5617	D4	2241	E2	2796	B2	3253	E2	3802	D4		
2141	E7	2517	E3	3163	E8	3530	B3	5620	E4	2242	D2	2796	C2	3254	D2	3803	D4		
2142	E7	2603	C9	3164	E8	3531	C2	5621	E4	2252	E3	2802	C9	3260	F10	3808	C9		
2145	E8	2605	C10	3168	E9	3532	C2	5624	B2	2260	E10	2816	E4	3261	F10	3809	C9		
2148	E7	2606	C9	3171	E8	3533	B3	5625	C7	2261	F10	2817	E3	3262	F10	4115	C6		
2150	E7	2607	B10	3172	E8	3534	C7	6100	E5	2263	F9	2818	E3	3263	E9	4116	D5		
2151	E7	2608	C9	3173	E8	3540	D7	6250	D2	2264	F9	2819	E4	3264	F9	4118	C6		
2152	E7	2609	B10	3174	E8	3541	D7	6251	D3	2266	F9	2820	E4	3265	F9	4203	D2		
2155	E7	2611	B4	3175	E9	3542	D6	6291	F7	2268	D2	2821	E4	3266	E9	4215	E2		
2156	E7	2614	B4	3178	E9	3543	D6	6292	F6	2269	D2	3100	D6	3269	D2	4220	E3		
2159	E8	2630	C4	3180	D5	3595	B7	6293	F7	2270	F10	3101	D6	3270	D2	4230	F7		
2160	E8	2635	C4	3181	C10	3602	B8	6310	C3	2291	E7	3102	D6	3271	F10	4231	E1		
2161	E8	2644	B9	3182	C10	3603	B7	6351	E6	2292	F6	3103	D6	3274	E2	4232	E2		
2162	E8	2651	B9	3183	C10	3604	B7	6410	E4	2293	E6	3104	D6	3290	D3	4310	C3		
2165	E9	2652	B10	3184	C10	3606	B7	6603	B8	2325	F6	3105	D6	3310	D10	4315	C3		
2168	E9	2659	C6	3185	C10	3607	B7	6604	C9	2326	F6	3106	E10	3311	D10	4551	D6		
2170	E8	2661	D6	3186	B10	3609	B7	6606	E3	2340	D10	3107	E10	3330	D9	4552	D7		
2171	E8	2666	C7	3187	B10	3612	B6	6607	E4	2341	D10	3110	D6	3334	C10	4562	D7		
2172	E8	2667	C7	3188	B10	3613	B6	6609	E4	2342	D10	3112	E10	3335	C10	4563	D7		
2175	E9	2668	C7	3191	E6	3614	B5	6611	E3	2343	D10	3113	E10	3336	C10	4564	D7		
2176	E9	2669	C7	3210	F10	3615	B4	6612	E4	2344	C10	3114	E6	3340	C10	4565	D7		
2177	E8	2674	D6	3211	F10	3617	C5	6613	E4	2351	E6	3115	E6	3343	D9	4566	D7		
2179	E8	2675	D6	3212	F10	3629	B6	6621	B7	2361	D10	3120	E9	3344	D9	4567	D7		
2182	E6	2696	D7	3213	F9	3630	B6	6622	B6	2380	D9	3121	E9	3345	E9	4568	D7		
2183	D6	2711	D9	3214	F9	3631	B9	6623	B6	2381	D9	3123	E9	3346	E9	4569	D7		
2192	E9	2712	D9	3215	F8	3632	B9	6625	E3	2382	D9	3124	E10	3348	E10	4570	D7		
2193	E9	2713	D9	3216	E8	3633	B9	6626	E3	2383	D9	3125	E10	3351	D10	4571	D7		
2194	C10	2721	D5	3217	C1	3634	B9	6627	E4	2385	D10	3126	E10	3352	D9	4572	D8		
2195	B10	2722	D4	3218	C1	3635	B9	7101	E6	2386	B8	3130	E9	3355	D10	4573	D8		
2196	B10	2723	D4	3219	D2	3636	B9	7103	E10	2388	C1	3133	E9	3362	D10	4574	D8		
2197	B10	2724	D4	3220	E1	3639	B9	7104	E10	2389	B1	3134	E10	3363	D10	5100	D5		
2198	D5	2725	D3	3221	F10	3658	C7	7105	F10	2390	C1	3135	E10	3364	E7	5101	E5		
2210	E10	2726	D3	3224	E2	3660	D6	7221	D2	2391	B1	3136	E10	3365	D10	5210	D1		
2211	E10	2728	D4	3226	E2	3678	B6	7310	D9	2392	C1	3141	E7	3412	D5	5211	D1		
2213	F9	2730	D4	3230	D2	3679	B6	7313	D10										
2214	F9	2731	D4	3231	D1	3680	C8	7315	D10										

ELECTRICAL PARTS LIST - MONO AV BOARD**MISCELLANEOUS**

1202	2422 026 04754	Socket Cinch (Audio & Line-out)
1208	4822 267 11039	CON BM V 11P F
1305	4822 267 10729	CON BM V 10P F
1306	2422 033 00468	Socket Combi (Video out & S-video)
1307	4822 267 10733	CON BM V 4P F
1308	4822 265 11515	CONN. BM V 8P F
1609	2422 025 17075	CON BM H 24P F

DIODES

6250	4822 130 11551	BZX384-C10
6251	4822 130 11564	BZX384-C3V9
6310	4822 130 11397	BAS316
6351	4822 130 11522	PDZ15B
6410	4822 130 11522	BZX384-C15
6604	9322 128 69685	S1D
6605	4822 130 11397	BAS316
6612	4822 130 11522	BZX384-C15

RESISTORS

3676	3198 031 13390	33R 5%
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COILS & FILTERS

5100	3198 018 63390	Fixed Ind 33V 5% 1008
5101	3198 018 63390	Fixed Ind 33V 5% 1008
5110	4822 157 71206	Fixed Ind 600R 100MHz 0805
5111	4822 157 71206	Fixed Ind 600R 100MHz 0805
5210	2422 549 44607	Fixed Ind 600R 100MHz 0603
5211	4822 157 71206	Fixed Ind 600R 100MHz 0805
5213	2422 549 44607	Fixed Ind 600R 100MHz 0603
5214	2422 549 44607	Fixed Ind 600R 100MHz 0603
5215	2422 549 44607	Fixed Ind 600R 100MHz 0603
5216	2422 549 44607	Fixed Ind 600R 100MHz 0603
5217	3198 018 52280	Fixed Ind 10% 0603
5218	3198 018 52280	Fixed Ind 10% 0603
5410	3198 018 41880	Fixed Ind 5% 1210
5602	4822 157 11499	Fixed Ind 60R 100MHz 0603
5603	2422 549 45186	Fixed Ind 60R 100MHz 0805
5604	2422 549 45186	Fixed Ind 60R 100MHz 0805
5605	4822 051 30008	0R JUMPER 0603
5606	4822 051 30008	0R JUMPER 0603
5607	3198 018 41880	Fixed Ind 5% 1210
5608	2422 549 45186	Fixed Ind 60R 100MHz 0805
5609	3198 018 41880	Fixed Ind 5% 1210
5610	2422 549 45186	Fixed Ind 60R 100MHz 0805
5613	4822 157 11499	Fixed Ind 60R 100MHz 0603
5614	4822 157 11499	Fixed Ind 60R 100MHz 0603
5620	3198 018 41880	Fixed Ind 5% 1210
5621	3198 018 41880	Fixed Ind 5% 1210
5623	4822 051 30471	470R 5% 0,062W
5624	4822 051 30471	470R 5% 0,062W
5625	4822 157 11499	Fixed Ind 60R 100MHz 0603
5626	4822 157 11499	Fixed Ind 60R 100MHz 0603
5627	4822 157 11499	Fixed Ind 60R 100MHz 0603
5701	2422 543 01393	X'tal Resonator 27MHz

TRANSISTORS & INTEGRATED CIRCUITS

7101	9965 000 12490	CS4360-KZ
7121	4822 209 30095	LM833D
7201	5322 130 44647	BC368
7202	5322 130 60159	BC847B
7203	5322 130 60159	SM BC847B
7204	4822 130 60373	BC857B
7205	5322 130 60159	BC847B
7221	9322 190 52668	CS5333-KZ
7310	5322 130 60159	BC847B
7311	5322 130 60159	BC847B
7312	5322 130 60159	BC847B
7313	5322 130 60159	BC847B
7318	4822 130 60373	BC857B
7500	4822 209 17398	LD1117DT33
7501	9322 165 15685	NCP303LSN30
7502	5322 130 60159	BC847B
7601	4822 209 17398	LD1117DT33
7602	3141 018 51841	MT1336E(C)
7603	9322 187 63668	BA5954FP(RHM0)
7604	3141 018 51660	BA6208F
7605	5322 209 11517	PC74HCU04T
7606	3141 018 51831	MT1379BE
7609	9322 205 53668	A2V64S40DTP-7
7609	9322 166 67668	MT48LC4M16A2TG-7E(MRN0)R
7609	9322 199 38671	IS42S16400A
7610	4822 209 17226	M24C08-WMN6
7611	3139 110 53771	FLASH + EMBEDDED SW
7613	4822 209 30095	LM833D
7614	4822 209 33411	MC78L05ACD
7615	9322 177 09685	AK4382AVT
7630	3141 018 51690	2SK3018
7631	3141 018 51690	2SK3018
7632	5322 130 60159	BC846B

AMPLIFIER BOARD

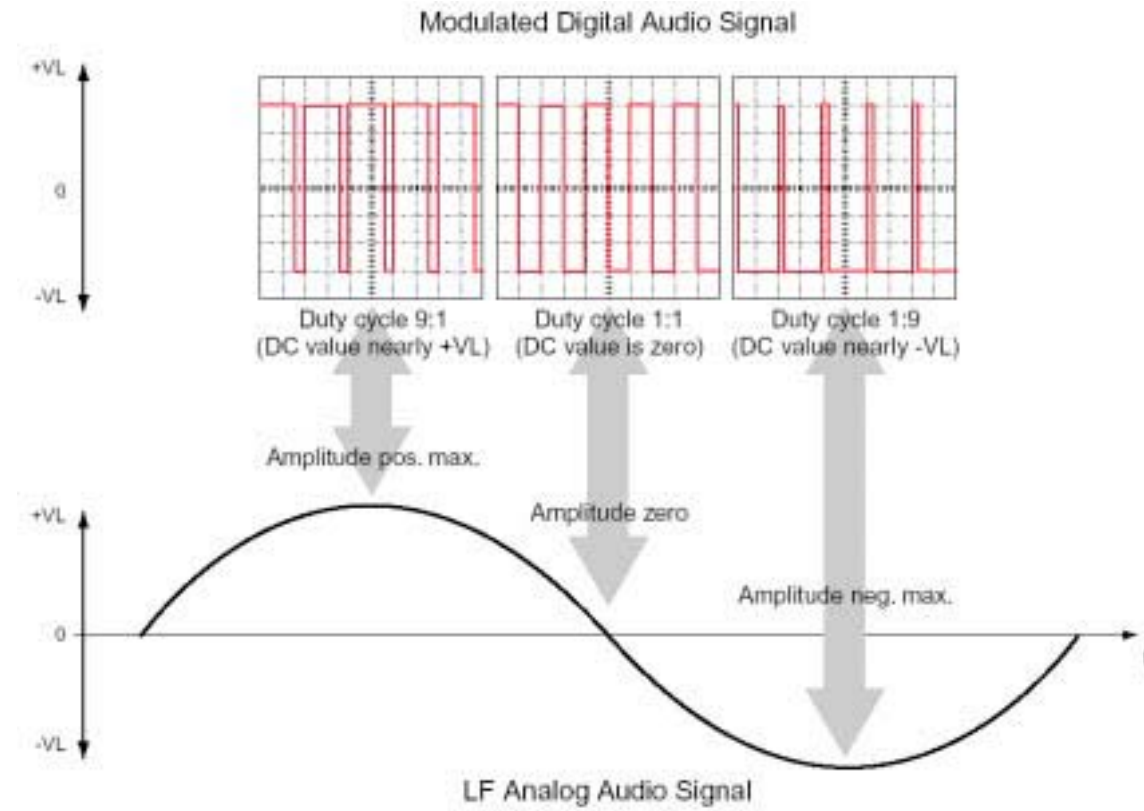
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6-channel class-D amplifier

Basic operation of a class-D amplifier

Basically, the output stage of a class-D amplifier outputs a continuous square wave swinging between positive and negative power supplies with a fixed frequency ("clock" frequency) far beyond the audible range. The duty cycle of this square wave is modulated with the audio signal. The output is followed by a low-pass filter which eliminates the clock frequency and allows only the audio signal going to the speaker. See simplified drawing below.



Compared to a conventional power amplifier the benefits of the Class-D amplifier are:

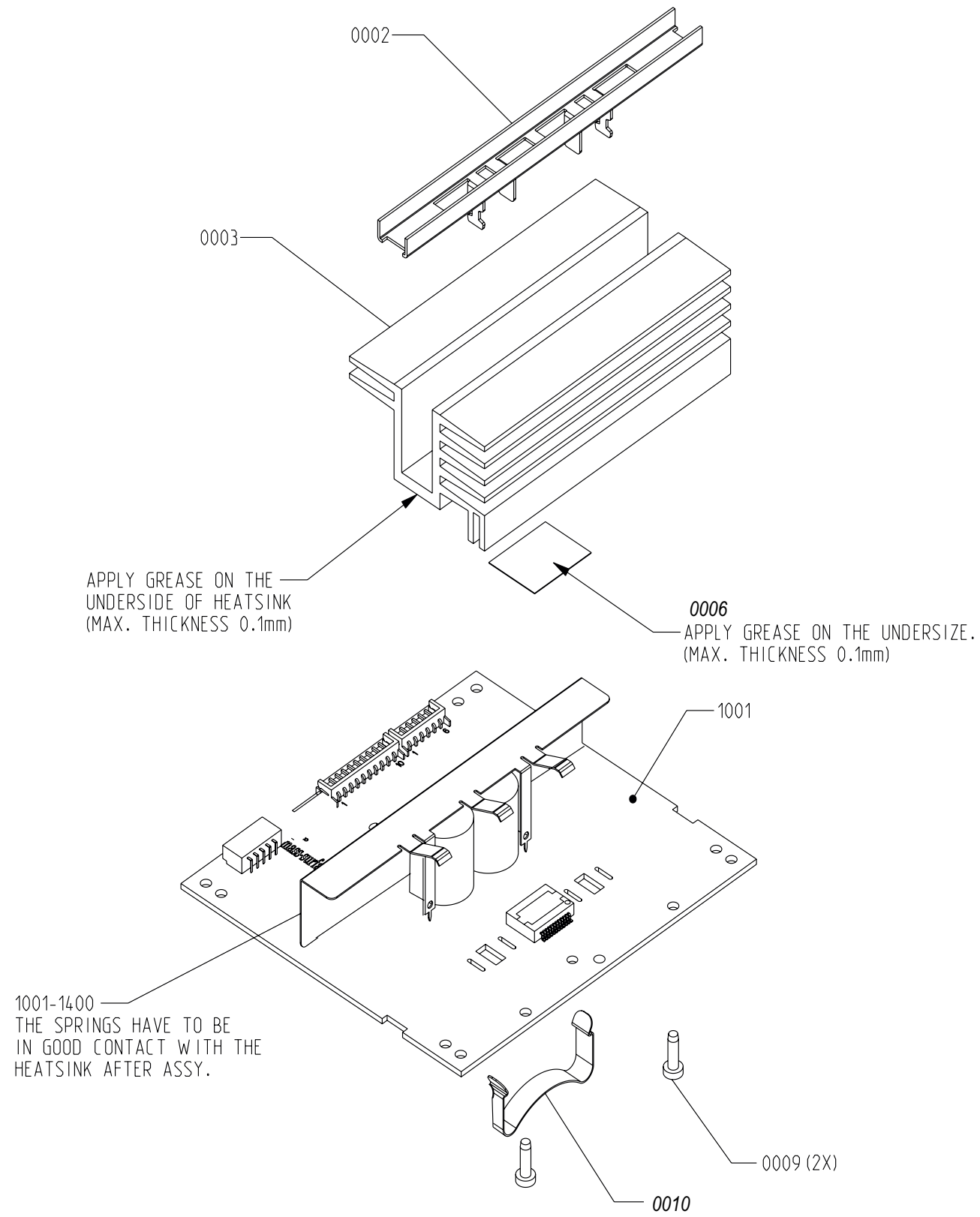
- higher efficiency
- lower power dissipation
- smaller heatsink required
- smaller mains transformer required

The main disadvantage of this concept is:

- The amplifier is operating with a high-frequency square wave at high amplitude and currents. This requires special precautions to prevent excessive electromagnetic radiation (EMC).

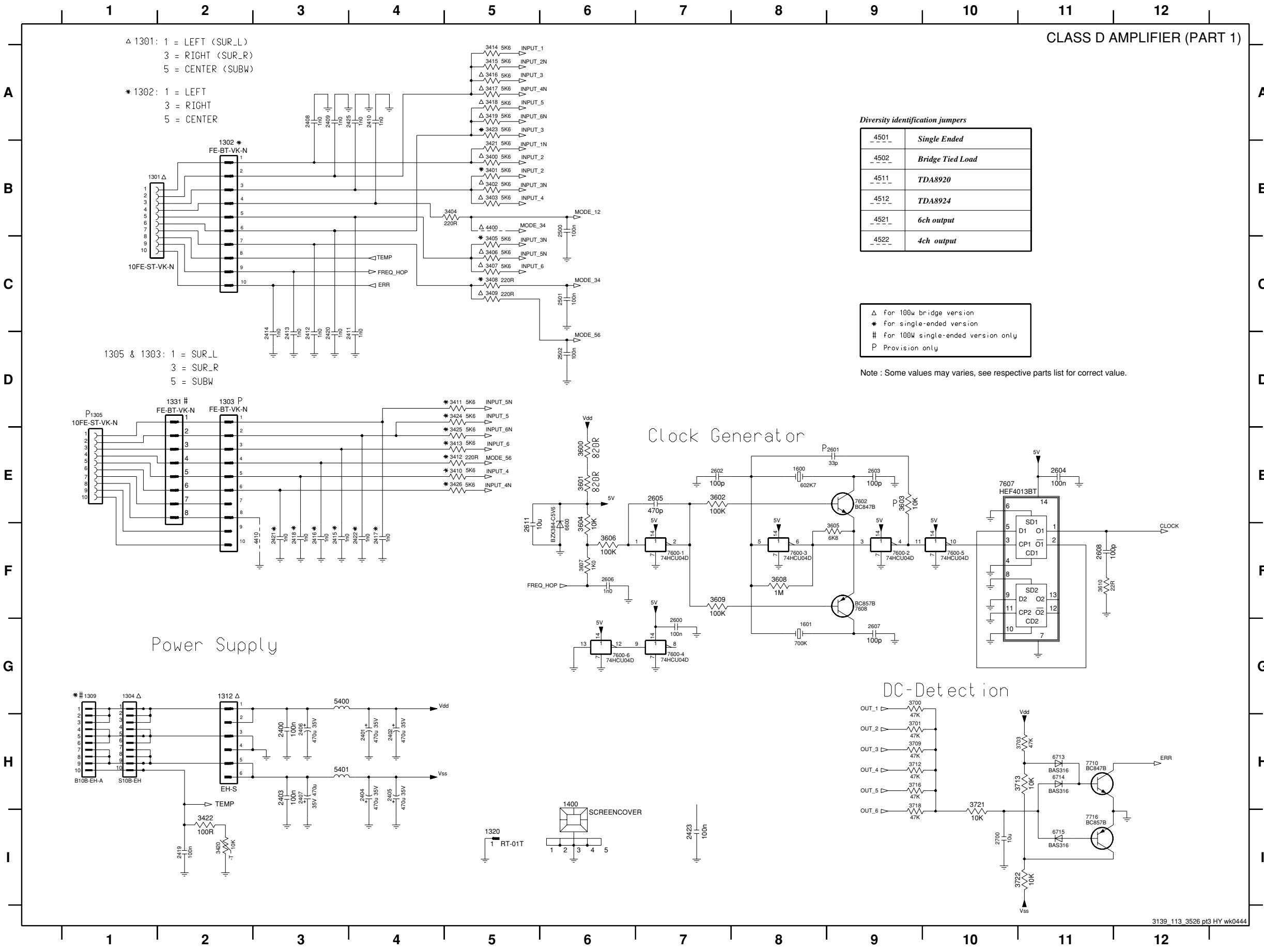
MECHANICAL EXPLODED VIEW

TECHNICAL REMARKS



CLASS D AMPLIFIER BOARD - CIRCUIT DIAGRAM PART 1

CLASS D AMPLIFIER (PART 1)



Diversity identification jumpers

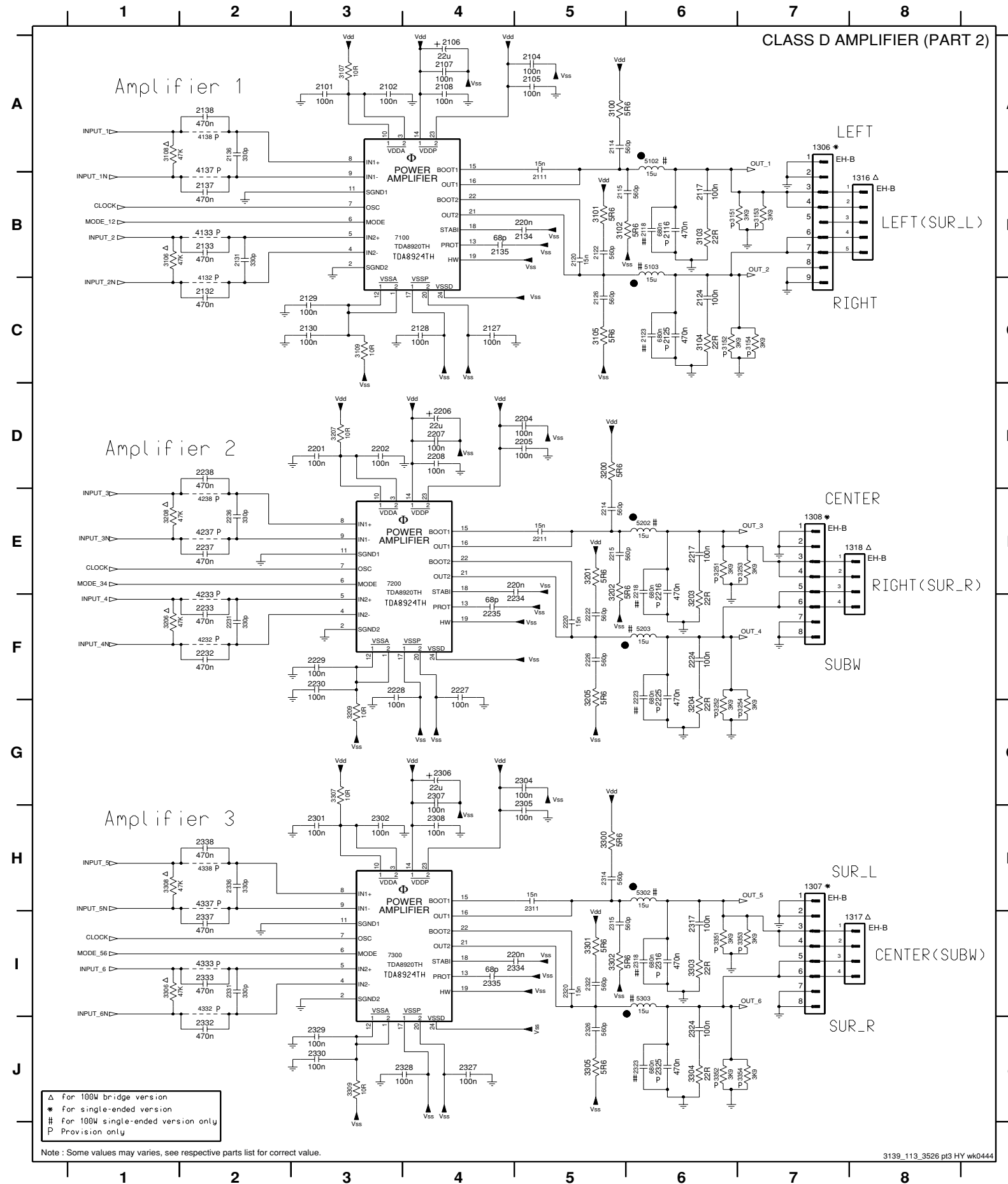
4501	Single Ended
4502	Bridge Tied Load
4511	TDA8920
4512	TDA8924
4521	6ch output
4522	4ch output

Δ for 100w bridge version
 * for single-ended version
 # for 100W single-ended version only
 P Provision only

Note : Some values may varies, see respective parts list for correct value.

- 1301 B1
- 1302 B2
- 1303 D2
- 1304 G1
- 1305 D1
- 1309 G1
- 1312 G2
- 1320 I5
- 1331 D2
- 1400 H6
- 1600 E8
- 1601 G8
- 2400 H3
- 2401 H4
- 2402 H4
- 2403 H3
- 2404 H4
- 2405 H4
- 2406 H3
- 2407 H3
- 2408 A3
- 2409 A3
- 2410 A4
- 2411 D4
- 2412 D3
- 2413 D3
- 2414 D3
- 2415 F3
- 2416 F3
- 2417 F4
- 2418 F3
- 2419 I2
- 2420 D3
- 2421 F3
- 2422 F4
- 2423 I7
- 2425 A4
- 2500 B6
- 2501 C6
- 2502 D6
- 2600 G7
- 2601 E9
- 2602 E7
- 2603 E9
- 2604 E11
- 2605 E7
- 2606 F6
- 2607 G9
- 2608 F11
- 2611 F5
- 2700 I10
- 3400 B5
- 3401 B5
- 3402 B5
- 3403 B5
- 3404 B5
- 3405 C5
- 3406 C5
- 3407 C5
- 3408 C5
- 3409 C5
- 3410 E5
- 3411 D5
- 3412 E5
- 3413 E5
- 3414 A5
- 3415 A5
- 3416 A5
- 3417 A5
- 3418 A5
- 3419 A5
- 3420 I2
- 3421 B5
- 3422 I2
- 3423 A5
- 3424 D5
- 3425 E5
- 3426 E5
- 3600 E6
- 3601 E6
- 3602 E7
- 3603 E9
- 3604 F6
- 3605 F9
- 3606 F6
- 3607 F6
- 3608 F8
- 3609 F7
- 3610 F11
- 3700 G9
- 3701 H9
- 3703 H11
- 3709 H9
- 3712 H9
- 3713 H11
- 3716 H9
- 3718 H9
- 3721 H10
- 3722 I11
- 4400 B5
- 4410 F3
- 4502 B9
- 4511 B9
- 4512 B9
- 4521 B9
- 4522 C9
- 5400 G3
- 5401 H3
- 6600 F6
- 6713 H11
- 6715 H11
- 7600-1 F7
- 7600-2 F9
- 7600-3 F8
- 7600-4 G7
- 7600-5 F10
- 7600-6 G6
- 7602 E9
- 7607 E10
- 7608 F9
- 7710 H11
- 7716 H11

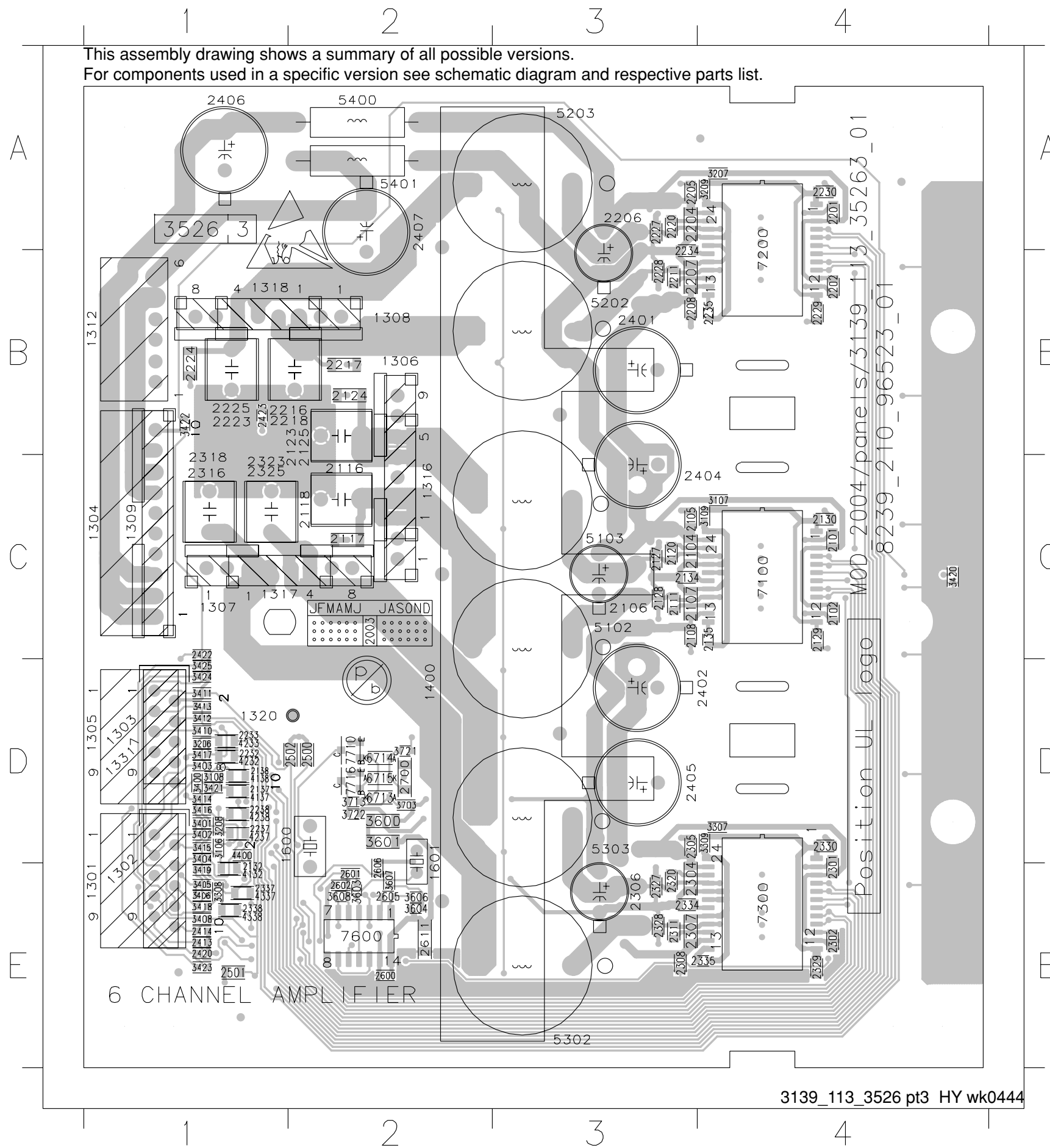
CLASS D AMPLIFIER BOARD - CIRCUIT DIAGRAM PART 2



- 1306 A7
- 1307 H7
- 1308 E7
- 1316 B8
- 1317 I7
- 1318 E7
- 2101 A3
- 2102 A3
- 2104 A5
- 2105 A5
- 2106 A4
- 2107 A4
- 2108 A4
- 2111 B5
- 2114 A5
- 2115 B5
- 2116 B6
- 2117 B6
- 2118 B6
- 2120 B5
- 2122 B5
- 2123 C6
- 2124 C6
- 2125 C6
- 2126 C5
- 2127 C4
- 2128 C4
- 2129 C3
- 2130 C3
- 2131 B2
- 2132 C2
- 2133 B2
- 2134 B5
- 2135 B4
- 2136 A2
- 2137 B2
- 2138 A2
- 2201 D3
- 2202 D3
- 2204 D5
- 2205 D5
- 2206 D4
- 2207 D4
- 2208 D4
- 2211 E5
- 2214 E5
- 2215 E5
- 2216 E6
- 2217 E6
- 2218 E6
- 2220 F5
- 2222 F5
- 2223 F6
- 2224 F6
- 2225 F6
- 2226 F5
- 2227 F4
- 2228 F3
- 2229 F3
- 2230 F3
- 2231 F2
- 2232 F2
- 2233 F2
- 2234 F5
- 2235 F4
- 2236 E2
- 2237 E2
- 2238 D2
- 2301 H3
- 2302 H3
- 2304 G5
- 2305 H5
- 2306 G4
- 2307 G4
- 2308 H4
- 2311 H5
- 2314 H5
- 2315 I5
- 2316 I6
- 2317 I6
- 2318 I6
- 2320 I5
- 2322 I5
- 2323 J6
- 2324 J6
- 2325 J6
- 2326 J5
- 2327 J4
- 2328 J4
- 2329 J3
- 2330 J3
- 2331 I2
- 2332 J2
- 2333 I2
- 2334 I5
- 2335 I4
- 2336 H2
- 2337 I2
- 2338 H2
- 3100 A5
- 3101 B5
- 3102 B5
- 3104 C6
- 3105 C5
- 3106 B1
- 3107 A3
- 3108 A1
- 3109 C3
- 3151 B6
- 3152 C6
- 3153 B7
- 3154 C7
- 3200 D5
- 3201 E5
- 3202 E5
- 3203 F6
- 3204 G6
- 3205 F5
- 3206 F1
- 3207 D3
- 3208 E1
- 3209 G3
- 3251 E6
- 3252 G6
- 3253 E7
- 3254 G7
- 3300 H5
- 3301 I5
- 3302 I5
- 3303 I6
- 3304 J6
- 3305 J5
- 3306 I1
- 3307 G3
- 3308 H1
- 3309 J3
- 3351 I6
- 3352 J6
- 3353 I7
- 3354 J7
- 4132 C2
- 4133 B2
- 4137 A2
- 4138 A2
- 4232 F2
- 4233 E2
- 4237 E2
- 4238 E2
- 4332 I2
- 4333 I2
- 4337 H2
- 4338 H2
- 5102 A6
- 5103 B6
- 5202 E6
- 5203 F6
- 5302 H6
- 5303 I6
- 7100 B4
- 7200 E3
- 7300 I3

CLASS D AMPLIFIER BOARD - TOP VIEW LAYOUT

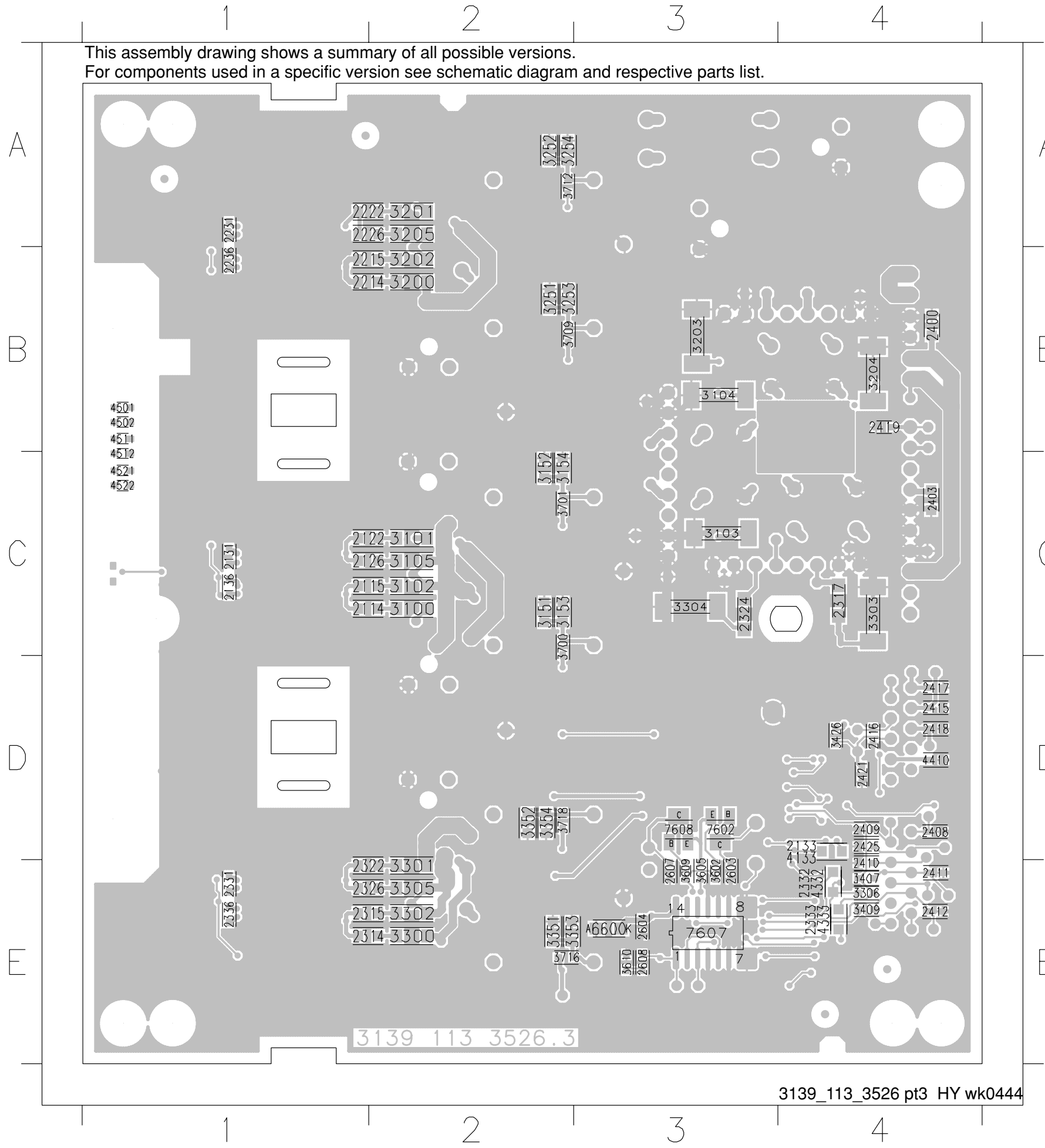
This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram and respective parts list.



1301	E1	6713	D2	2101	C4	2501	E1	4238	D1
1302	E1	6714	D2	2102	C4	2502	D2	4337	E1
1303	D1	6715	D2	2104	C3	2600	E2	4338	E1
1304	C1	7100	C4	2105	C3	2601	E2	4400	D1
1305	D1	7200	A4	2107	C3	2602	E2	6713	D2
1306	B2	7300	E4	2108	C3	2605	E2	6714	D2
1307	C1	7600	E2	2111	C3	2606	E2	6715	D2
1308	B2	7710	D2	2117	C2	2611	E2	7100	C4
1309	C1	7716	D2	2120	C3	2700	D2	7200	A4
1312	B1			2124	B2	3106	D1	7300	E4
1316	C2			2127	C3	3107	C4	7600	E2
1317	C1			2128	C3	3108	D1	7710	D2
1318	B1			2129	C4	3109	C4	7716	D2
1320	D1			2130	C4	3206	D1		
1331	D1			2132	E1	3207	A4		
1400	D2			2134	C3	3208	D1		
1600	D1			2135	C4	3209	A4		
1601	D2			2137	D1	3307	D4		
2104	C3			2138	D1	3308	E1		
2106	C3			2201	A4	3309	D4		
2107	C3			2202	B4	3400	D1		
2116	C2			2204	A3	3401	D1		
2117	C2			2205	A3	3402	D1		
2118	C2			2207	B3	3403	D1		
2123	B2			2208	B3	3404	D1		
2124	B2			2211	B3	3405	E1		
2125	B2			2217	B2	3406	E1		
2204	A3			2220	A3	3408	E1		
2206	A3			2224	B1	3410	D1		
2207	B3			2227	A3	3411	D1		
2216	B1			2228	B3	3412	D1		
2217	B2			2229	B4	3413	D1		
2218	B2			2230	A4	3414	D1		
2223	B1			2232	D1	3415	D1		
2224	B1			2233	D1	3416	D1		
2225	B1			2234	B3	3417	D1		
2304	D3			2235	B4	3418	E1		
2306	E3			2237	D1	3419	E1		
2307	E3			2238	D1	3420	C4		
2316	C1			2301	E4	3421	D1		
2318	C1			2302	E4	3422	B1		
2323	C1			2304	E3	3423	E1		
2325	C1			2305	D3	3424	D1		
2401	B3			2307	E3	3425	D1		
2402	D4			2308	E3	3600	D2		
2404	C4			2311	E3	3601	D2		
2405	D3			2320	E3	3603	E2		
2406	A1			2327	E3	3604	E2		
2407	A2			2328	E3	3606	E2		
2611	E2			2329	E4	3607	E2		
2700	D2			2330	D4	3608	E2		
3600	D2			2334	E3	3703	D2		
3601	D2			2335	E4	3713	D2		
5102	C3			2337	E1	3721	D2		
5103	C3			2338	E1	3722	D2		
5202	B3			2413	E1	4132	E1		
5203	A3			2414	E1	4137	D1		
5302	E3			2420	E1	4138	D1		
5303	D3			2422	C1	4232	D1		
5400	A2			2423	B1	4233	D1		
5401	A2			2500	D2	4237	D1		

CLASS D AMPLIFIER BOARD - BOTTOM VIEW LAYOUT

This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram and respective parts list.



3139_113_3526 pt3 HY wk0444

2114	C1	3254	A2
2115	C1	3300	E2
2122	C1	3301	E2
2126	C1	3302	E2
2131	C1	3303	C4
2133	D4	3304	C3
2136	C1	3305	E2
2214	B1	3306	E4
2215	B1	3351	E2
2222	A1	3352	D2
2226	A1	3353	E2
2231	A1	3354	D2
2236	B1	3407	E4
2314	E1	3409	E4
2315	E1	3426	D4
2317	C4	3602	E3
2322	E1	3605	E3
2324	C3	3609	E3
2326	E1	3610	E3
2331	E1	3700	C2
2332	E4	3701	C2
2333	E4	3709	B2
2336	E1	3712	A2
2400	B4	3716	E2
2403	C4	3718	D2
2408	D4	4133	D4
2409	D4	4332	E4
2410	E4	4333	E4
2411	E4	4410	D4
2412	E4	4501	B1
2415	D4	4502	B1
2416	D4	4511	B1
2417	D4	4512	C1
2418	D4	4521	C1
2419	B4	4522	C1
2421	D4	6600	E3
2425	D4	7602	D3
2603	E3	7607	E3
2604	E3	7608	D3
2607	E3		
2608	E3		
3100	C2		
3101	C2		
3102	C2		
3103	C3		
3104	B3		
3105	C2		
3151	C2		
3152	C2		
3153	C2		
3154	C2		
3200	B2		
3201	A2		
3202	B2		
3203	B3		
3204	B4		
3205	A2		
3251	B2		
3252	A2		
3253	B2		
2114	C1	3254	A2
2115	C1	3300	E2
2122	C1	3301	E2
2126	C1	3302	E2
2131	C1	3303	C4
2133	D4	3304	C3
2136	C1	3305	E2
2214	B1	3306	E4
2215	B1	3351	E2
2222	A1	3352	D2
2226	A1	3353	E2
2231	A1	3354	D2
2236	B1	3407	E4
2314	E1	3409	E4
2315	E1	3426	D4
2317	C4	3602	E3
2322	E1	3605	E3
2324	C3	3609	E3
2326	E1	3610	E3
2331	E1	3700	C2
2332	E4	3701	C2
2333	E4	3709	B2
2336	E1	3712	A2
2400	B4	3716	E2
2403	C4	3718	D2
2408	D4	4133	D4
2409	D4	4332	E4
2410	E4	4333	E4
2411	E4	4410	D4
2412	E4	4501	B1
2415	D4	4502	B1
2416	D4	4511	B1
2417	D4	4512	C1
2418	D4	4521	C1
2419	B4	4522	C1
2421	D4	6600	E3
2425	D4	7602	D3
2603	E3	7607	E3
2604	E3	7608	D3
2607	E3		
2608	E3		
3100	C2		
3101	C2		
3102	C2		
3103	C3		
3104	B3		
3105	C2		
3151	C2		
3152	C2		
3153	C2		
3154	C2		
3200	B2		
3201	A2		
3202	B2		
3203	B3		
3204	B4		
3205	A2		
3251	B2		
3252	A2		
3253	B2		

ELECTRICAL PARTS LIST - AMPLIFIER BOARD**MISCELLANEOUS**

0010	3104 211 29861	SPRING 6 CHANNEL
1302	4822 267 10729	CON BM V 10P F
1600	2422 540 98514	RES CER 602KHZ7 CSB600F1 B
1601	2422 540 98568	RES CER 700KHZ CSBLA* B

CAPACITORS

2104	2222 601 55649	100V 100nF 10%
2106	2020 021 91431	100V 22uF 20%
2106	2020 021 91431	100V 22uF 20%
2107	2222 601 55649	100V 100nF 10%
2114	2238 600 15619	100V 560pF 10%
2115	2238 600 15619	100V 560pF 10%
2116	4822 121 51252	50V 470nF 10%
2117	2222 601 55649	100nF 10% 100V
2122	2238 600 15619	100V 560pF 10%
2124	2222 601 55649	100V 100nF 10%
2125	4822 121 51252	50V 479nF 10%
2126	2238 600 15619	100V 560pF 10%

COIL & FILTERS

5102	2422 536 00733	Ind Fixed 22uF 20%
5103	2422 536 00733	Ind Fixed 22uF 20%
5400	4822 157 11411	BEAD 100MHZ 80R
5401	4822 157 11411	BEAD 100MHZ 80R

DIODES

6600	3198 020 55680	BZX384-C5V6
6713	4822 130 11397	BAS316
6714	4822 130 11397	BAS316
6715	4822 130 11397	BAS316

TRANSISTORS & INTEGRATED CIRCUITS

7100	9352 753 45518	TDA8922BTH/N2
7600	5322 209 11517	74HCU04D
7602	5322 130 60159	BC846B
7607	5322 209 14477	HEF4013BT
7608	4822 130 60373	BC857B
7710	5322 130 60159	BC847B
7716	4822 130 60373	BC857B

Note: Only the parts mentioned in this list are normal service spare parts.

ELECTRICAL PARTS LIST - SPEAKER CONNECTOR BOARD

MISCELLANEOUS

1712 4822 267 31176 SOCKET CLICK H 4P F

Note: Only the parts mentioned in this list are normal service spare parts.

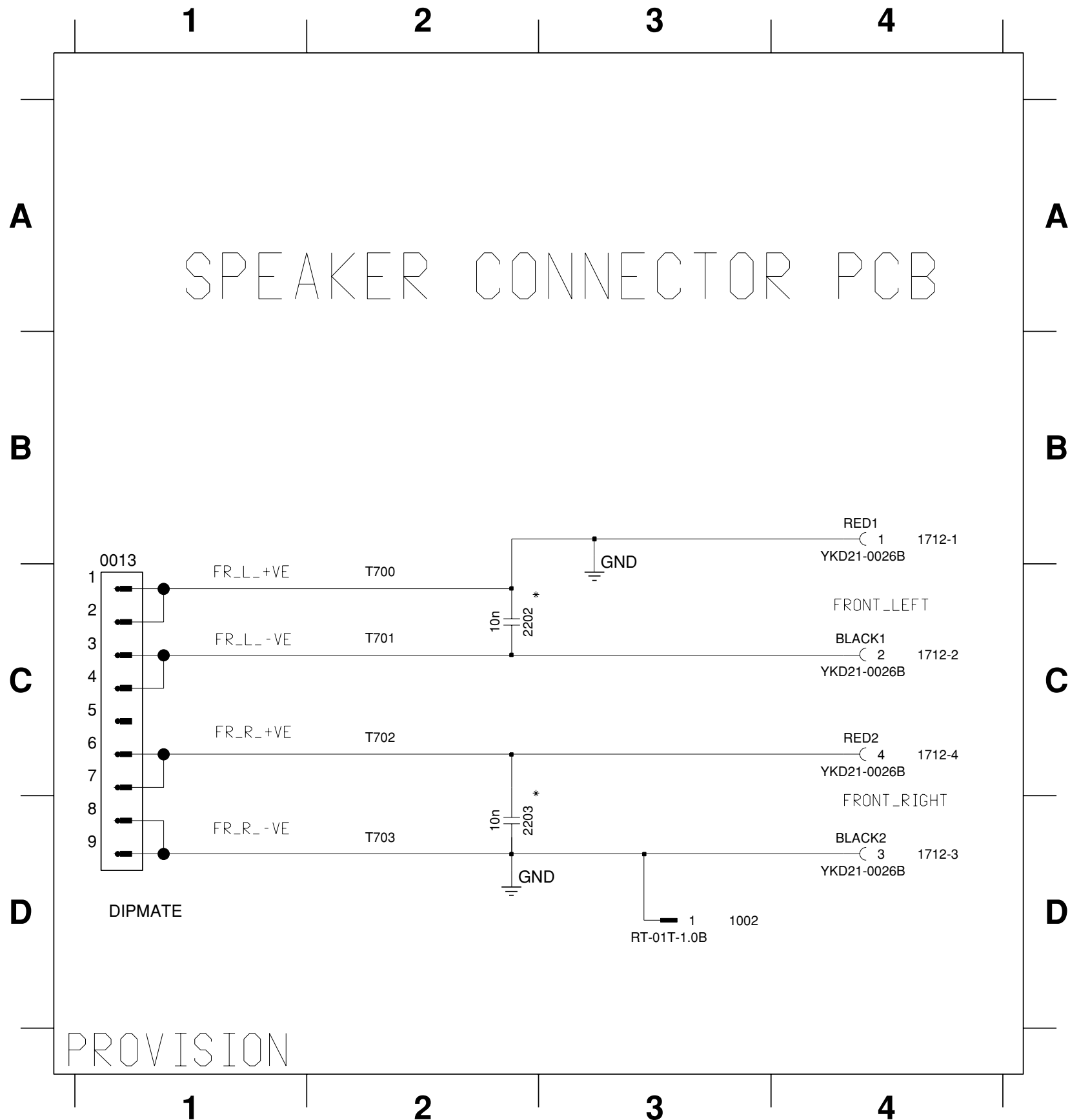
SPEAKER CONNECTOR BOARD

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CIRCUIT DIAGRAM

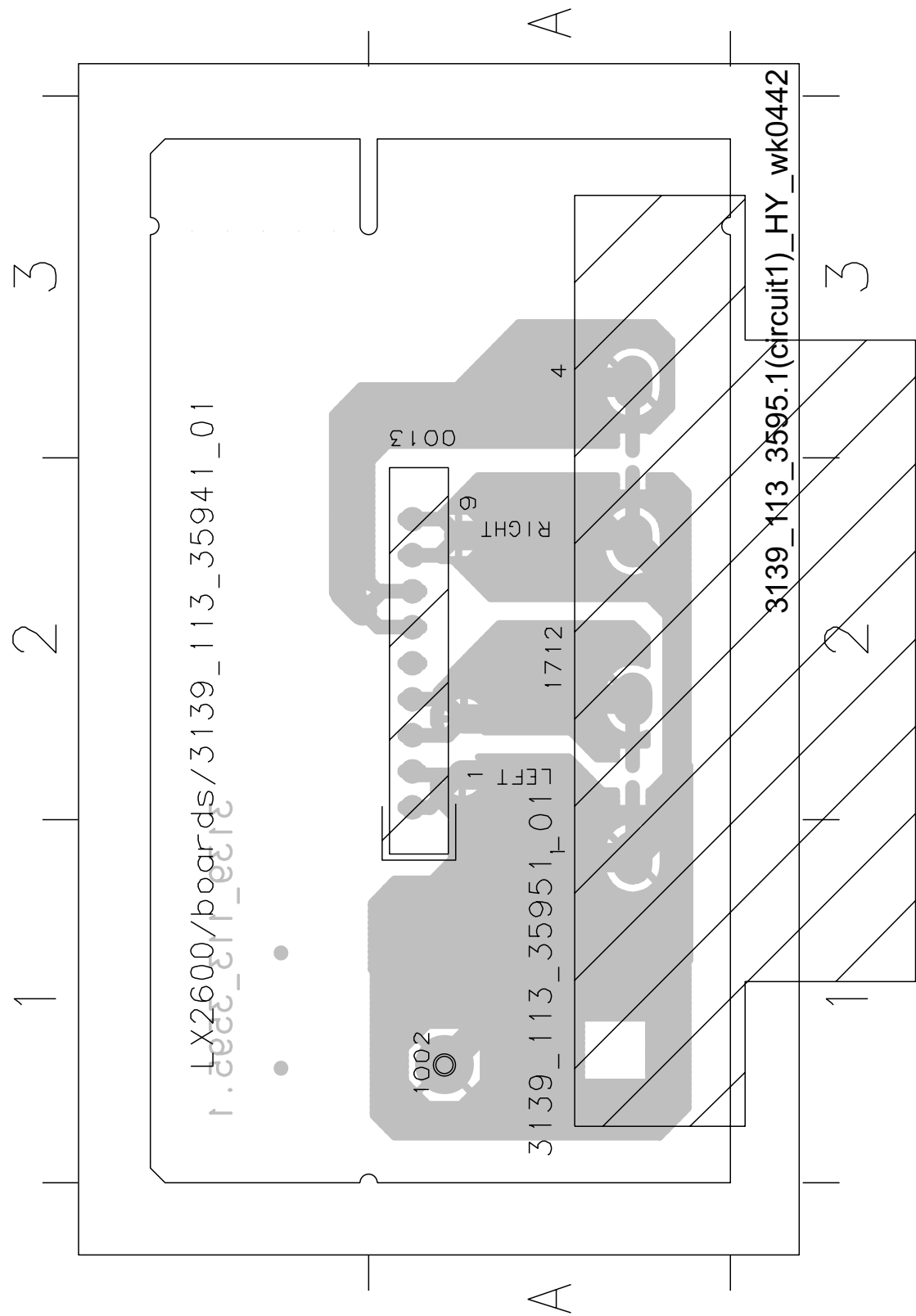
0013 C1	1712-1 B4	1712-3 D4	2202 C2	T700 C2	T702 C2
1002 D3	1712-2 C4	1712-4 C4	2203 D2	T701 C2	T703 D2



COMPONENT LAYOUT

0013 A3
1002 A1
1712 A2

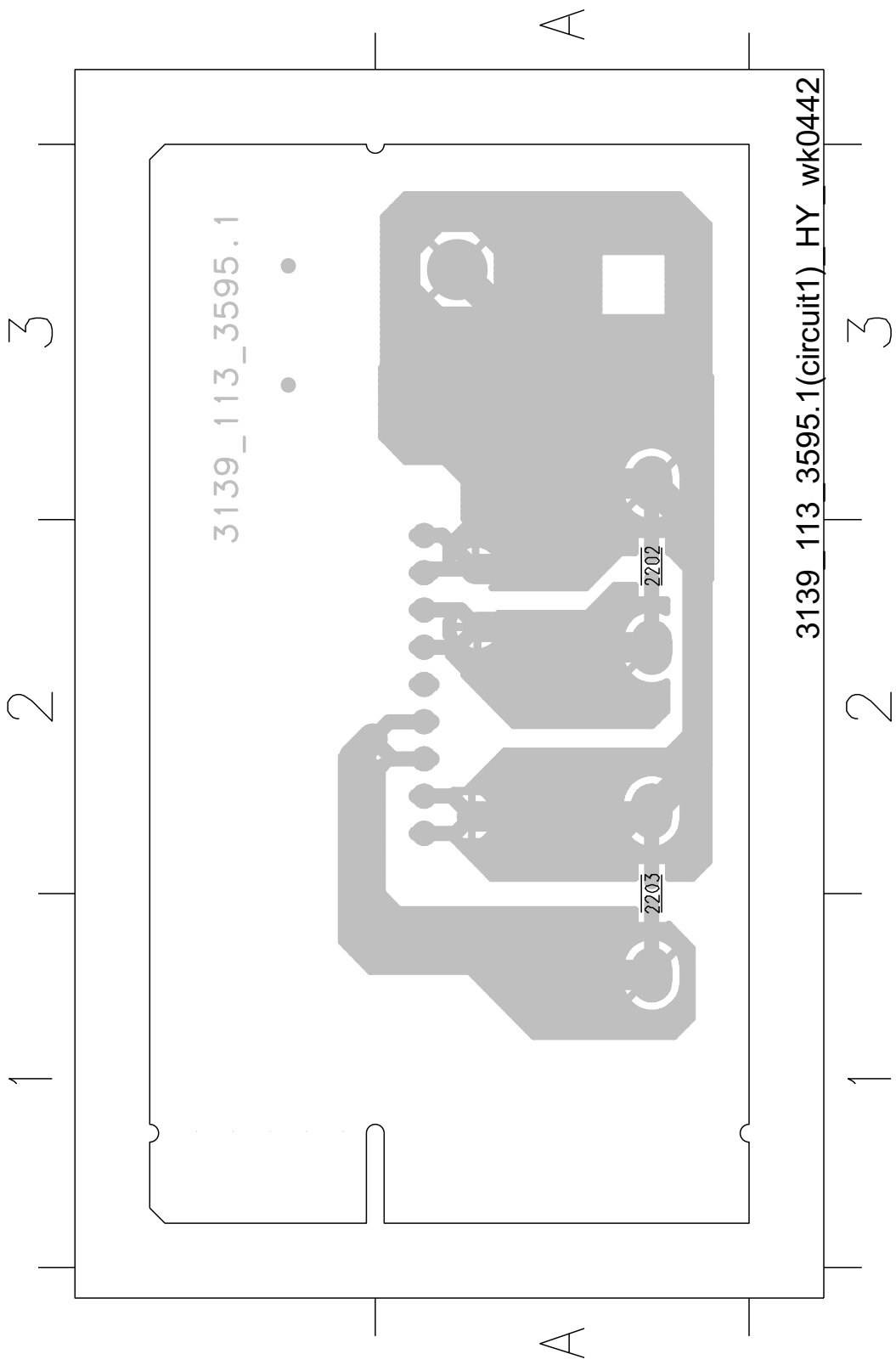
9-3



CHIP LAYOUT

2202 A2
2203 A1

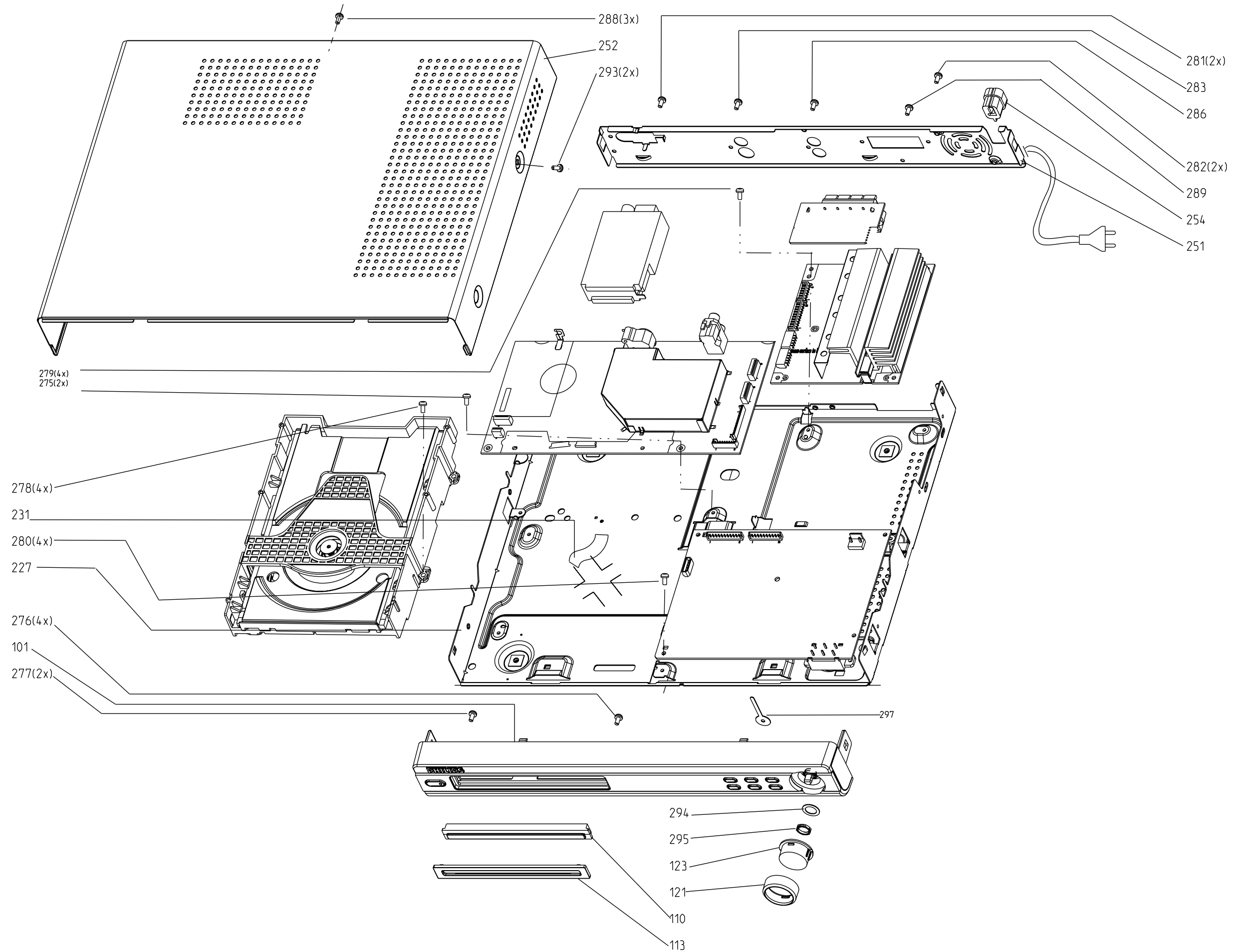
9-3



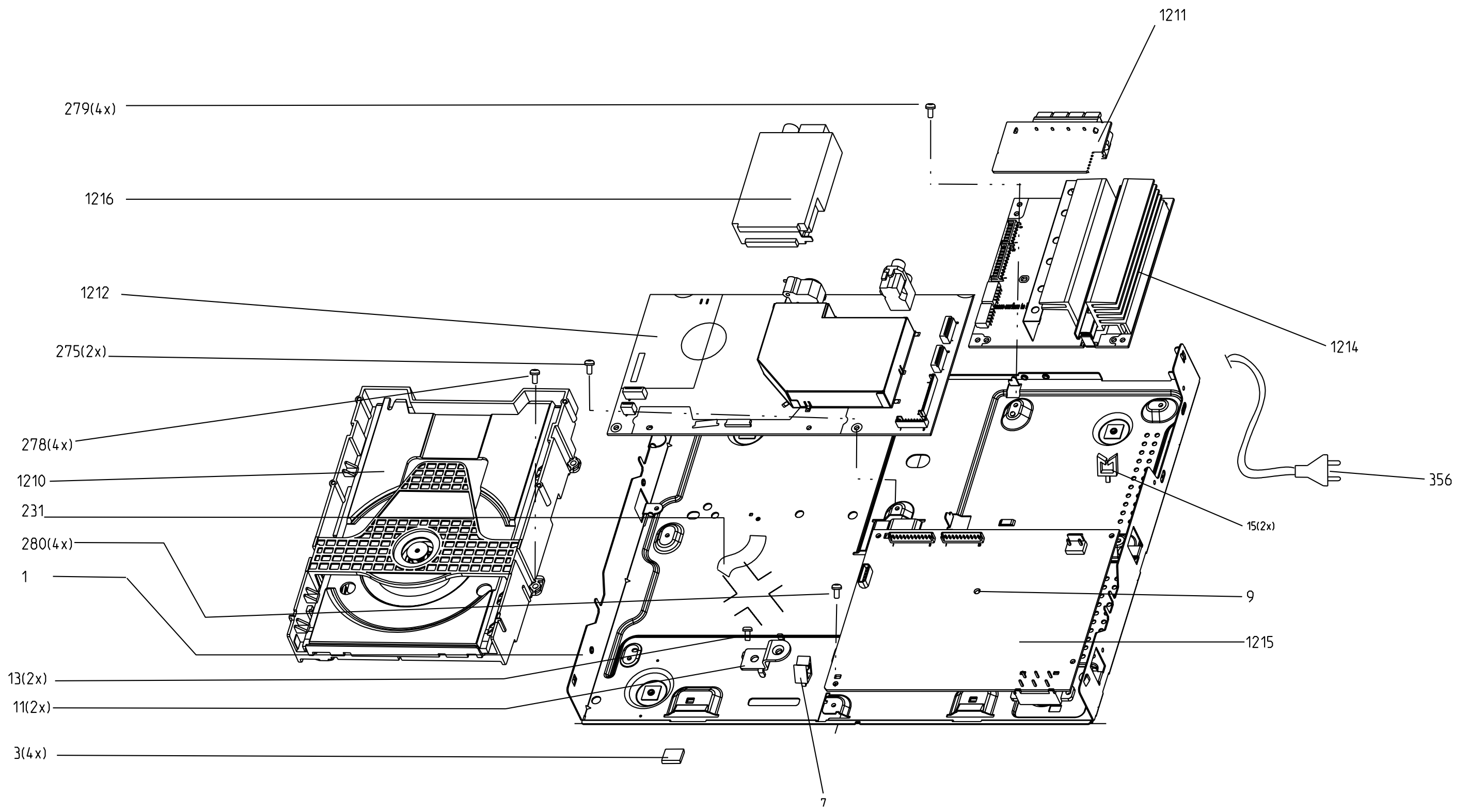
MAIN ENCASING EXPLODED VIEW

10-1

10-1



MAIN ENCASING EXPLODED VIEW



MAIN ENCASING & ACCESSORIES PARTS LIST

0101	3139 257 51731	CABINET FRONT ASSY
0110	3139 257 51811	COVER TRAY DVD
0113	3139 254 01461	LENS ORN COVER TRAY
0121	3139 254 01411	KNOB VOLUME
0123	3143 027 60431	KNOB VOLUME ASSY
0254	4822 532 60948	BUSH

FRONT CABINET ASSEMBLY PARTS LIST

0001	3139 257 51711	CABINET FRONT
0003	3139 247 51831	BADGE PHILIPS ASSY
0009	3139 257 51831	BUTTON PWR/STDBY
0011	3139 114 79541	LIGHTGUIDE STANDBY
0013	3139 257 51821	BUTTON SET CONTROL
0019	3139 257 51741	WINDOW DISPLAY
0021	3139 254 01441	WINDOW DISPLAY RIGHT

BOTTOM PLATE ASSEMBLY PARTS LIST

0003	3139 243 10080	CUSHION FOOT
0007	2422 015 19894	SADDLE WIRE NY6/6 NT 9.9MM B
0009	8204 055 76161	SPACER LOCKING KGLS-4S B
0015	2422 015 16901	SADDLE MINI CLAMP TYPE B 11.8

FINAL EQUIPMENT ASSEMBLY PARTS LIST

0351	2422 076 00546	CABLE FM AERIAL
0352	2422 549 45813	ANTENNA AM LOOP
0352	2422 549 45386	ANTENNA AM LOOP
0353	3139 238 04751	REMOTE CONTROL
0356	2422 070 98231	MAIN CORD
0356	4822 321 11462	MAINS CORD 20/21" (JST PLUG)
0364	3103 308 92610	CABLE AUDIO
0365	4822 263 21206	P50 ADAPTOR

ELECTRICAL ASSEMBLY PARTS LIST

1210	3141 018 05122	DVD LOADER A97SL-F (CABLE)
1210	3141 018 05182	DVD LOADER A97SL-S (CABLE)
1211	3139 118 58401	PCBAS SPK CONNECTOR
1212	3139 118 58431	PCBAS MONO AV
1213	3139 118 57202	PCBAS FRONT
1215	3122 429 00401	PSU DVD-RECEIVER
1216	2422 542 90138	TUNNER A+F ENG06703Q USA B

SET WIRING ASSEMBLY PARTS LIST

8521	3139 110 34580	Flex Cable 4P 28cm AD
8531	3139 111 03671	Flex Cable 10P 140cm AD
8540	3139 110 35390	Flex Cable 8P 480cm BD
8580	3139 110 35911	Flex Cable 11P 100cm BD

Note: Only the parts mentioned in this list are normal service spare parts.