DVD Player

DVP762/00/02/05/78

Service
Service
Service

Service Manual

MP3-CD PLAYBACK
MP3

COMPACT disc
DIGITAL AUDIO

DVD VIDEO

COMPACT disc
DIGITAL VIDEO

TABLE OF CONTENTS

**CLASS 1
LASER PRODUCT**

(GB)   3139 785 30660

Version 1.0

PHILIPS

LOCATION OF PC BOARDS

DVD Loader

SD6.1 Board

AV Board

Standby Board

Front Display Board

ECO Board

PSU Board

Card Reader (Digital Media Reader)
- for DVP762 only

VERSION VARIATIONS:

Type /Versions: Features & Board in used:	DVP762							
	/00	/02	/05	/78				
Aux-In								
Digital In								
TV-In								
Audio Out (Stereo L/R)	x	x	x	x				
Audio Out (Coaxial/Optical)	x	x	x	x				
CVBS Output	x	x	x	x				
S-Video Output	x	x	x	x				
SCART	x	x	x					
Y/Pb/Pr (YUV) Component Video Output	x	x	x	x				
Progressive Scan	x	x	x	x				
ECO Standby	x	x	x	x				
Voltage Selector								
Card Reader (Digital Media Reader)	x	x	x	x				

SPECIFICATIONS

GENERAL:

Mains voltage : 220-240V for /00/02/05

110-127V/220-240V for /78

Mains frequency   : 50/60Hz

Power consumption   : < 14W

< 0.3W at Standby mode

Dimension centre unit : 435 x 46 x 310mm

AUDIO PERFORMANCE:

Normal Mode Stereo L/R

Output Voltage   : 2Vrms ± 1.5dB

Channel Unbalance (1kHz)   : < 0.85dB

Crosstalk   : > 100dB (1kHz)

> 95dB (20Hz-20kHz)

Freq. Response (20Hz-20kHz) : ± 0.2dB max

Signal to Noise Ratio   : > 90dB (A-weighted)

Distortion and Noise   : > 85dB (1kHz)

> 80dB (20Hz-2kHz)

> 75dB (4kHz-20kHz)

AUDIO FORMAT:

MPEG/AC-3/PCM   : Compressed Digital

16, 20, 24 bits

fs, 44.1, 48, 96 kHz

MP3 (ISO 9660)   : 96, 112, 128, 256 kbps & variable

bit rate fs, 32, 44.1, 48 kHz

VIDEO FORMAT:

Digital Compression : MPEG-2 for DVD, SVCD
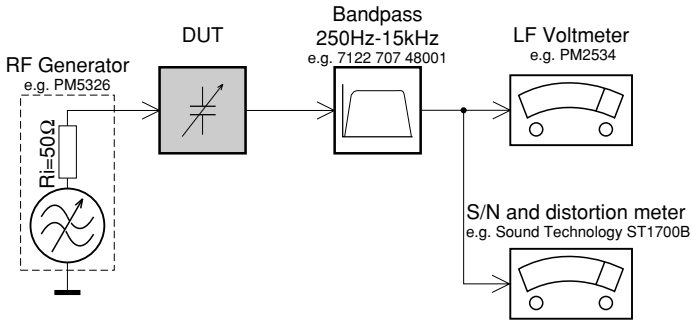
MPEG-1 for VCD

MPEG-4/DivX

VIDEO PERFORMANCE:

CVBS [1]   : 1.0V$_{p-p}$

YPbPr [1]   : 0.7V$_{p-p}$

RGB (Scart) [1] : 0.7V$_{p-p}$

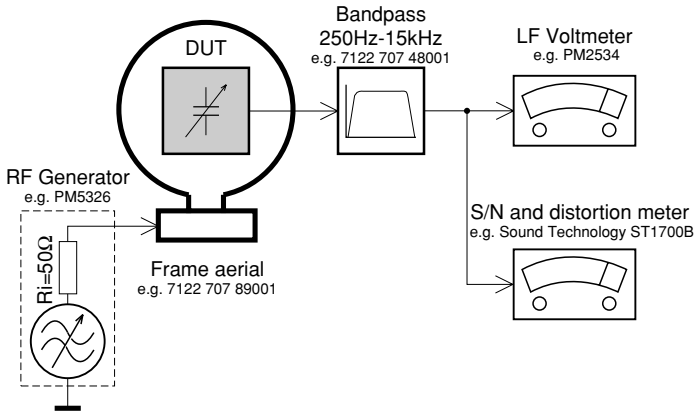[1] Output terminals to be terminated with 75Ω

MEASUREMENT SETUP

Tuner FM

Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilottone (19kHz, 38kHz).
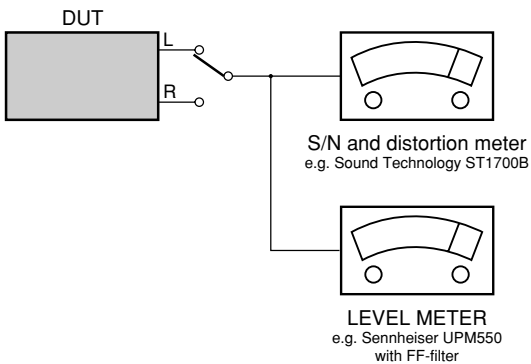
Tuner AM (MW,LW)

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).
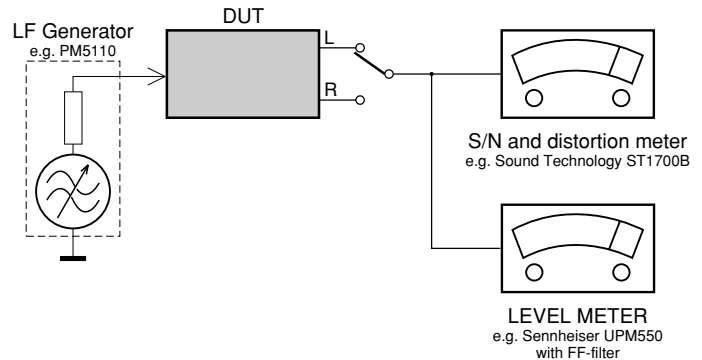
CD

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

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

Dolby Pro-logic Test Disc 4822 395 10216

HANDLING CHIP COMPONENTS

ESD
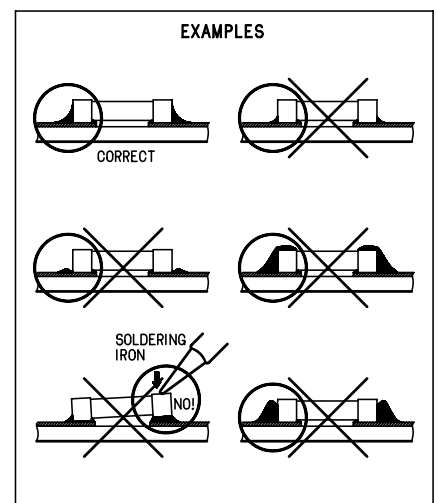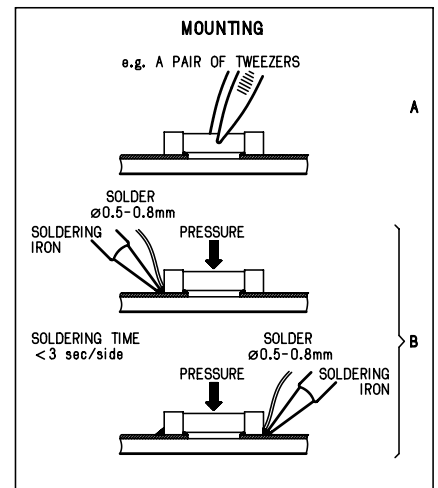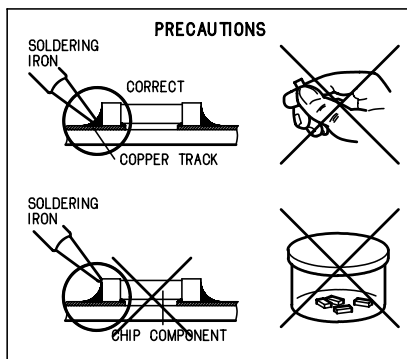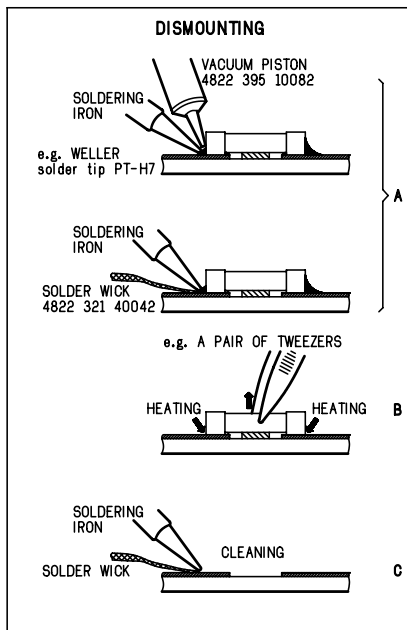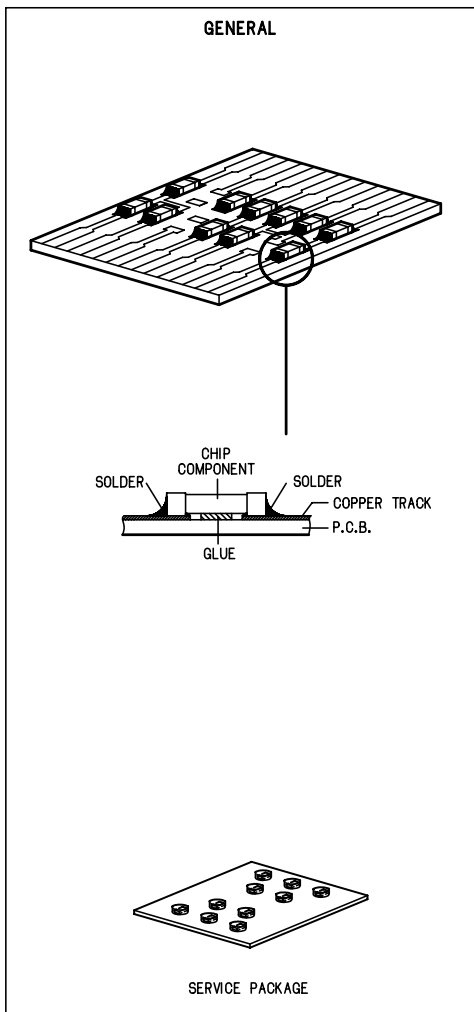
(GB) WARNING

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.

(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 enfiler 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 elektrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kan 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.

(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 ditzelfde potentiaal.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridatta 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) ESD PROTECTION EQUIPMENT:

Complete Kit ESD3 (small tablemat, wristband,
  connection box, extention cable and earth cable) 4822 310 10671
Wristband tester 4822 344 13999

(GB)

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

Safety components are marked by the symbol ⚠ .

(NL)

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

De Veiligheidsonderdelen zijn aangeduid met het symbool ⚠

(F)

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

Less composants de sécurité sont marqués ⚠

(D)

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

Sicherheitsbauteile sind durch das Symbol ⚠ markiert.

(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.

Componenty di sicurezza sono marcati con ⚠

(GB)

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.

CLASS 1 LASER PRODUCT
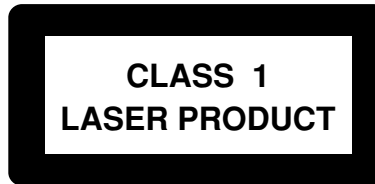
(GB) Warning !

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 suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

(DK) Advarse !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsaettelse for stråling.

(F)

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

DISMANTLING INSTRUCTIONS

Dismantling of the DVD Loader

1) The tray can be manually open by inserting a minus screw driver and push the lever in the direction as shown in Figure 1 to unlock the tray before sliding it out.

2) Slide out the tray and remove the Tray Front assembly (pos 110 + pos 111) as shown in Figure 2.

3) Loosen 5 screws to remove the Cover Top (pos 240).
   - 1 screw each on the left & right side
   - 3 screws on the rear

4) Loosen 4 screws B (see Figure 4) to remove the DVD Loader.
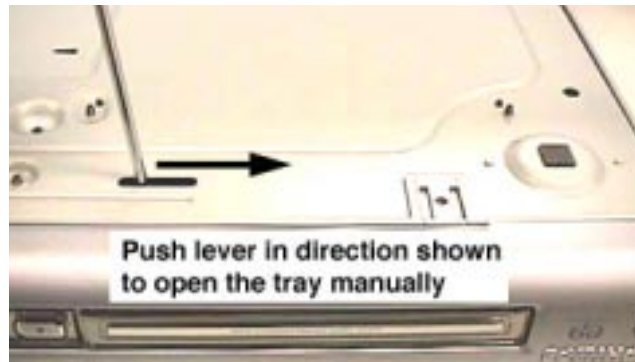
Figure 1
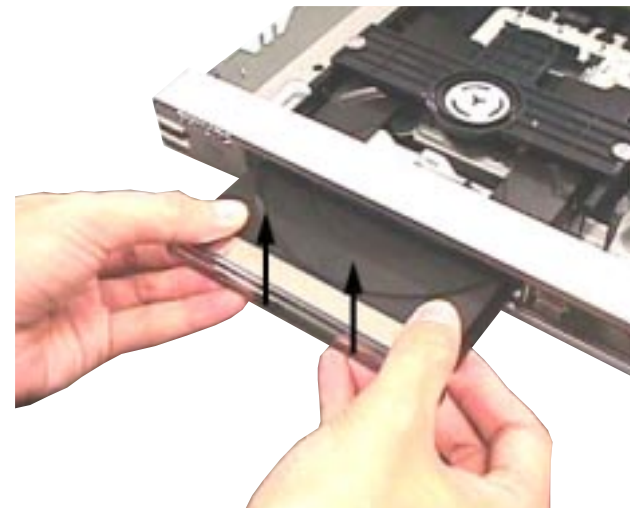
Figure 2

Dismantling of the AV Board, SD6.1 PL 2CH Board and PSU Board

1) Loosen 8 screws A (see Figure 3) and uncatch 2 catches C1 (see Figure 4) to remove the AV Board (pos 1001).

2) Loosen 4 screws D (see Figure 4) to remove the SD6.1 PL 2CH Board.

3) Loosen 2 screws E and uncatch 2 catches C2 (see Figure 4) to remove the PSU Board (pos 1004).
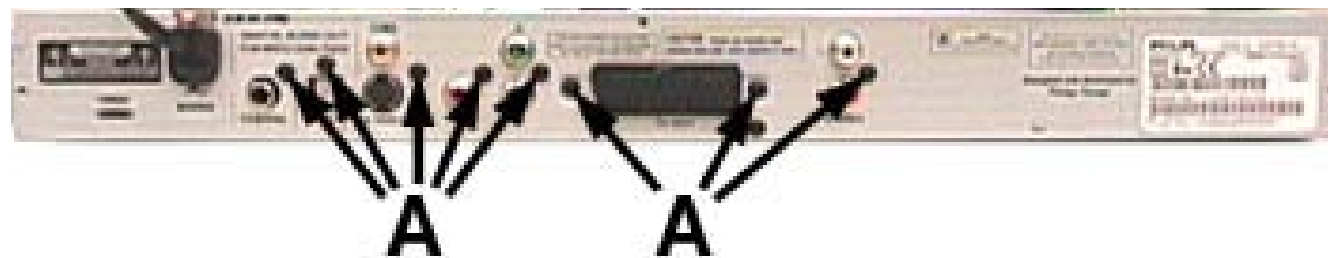
Figure 3
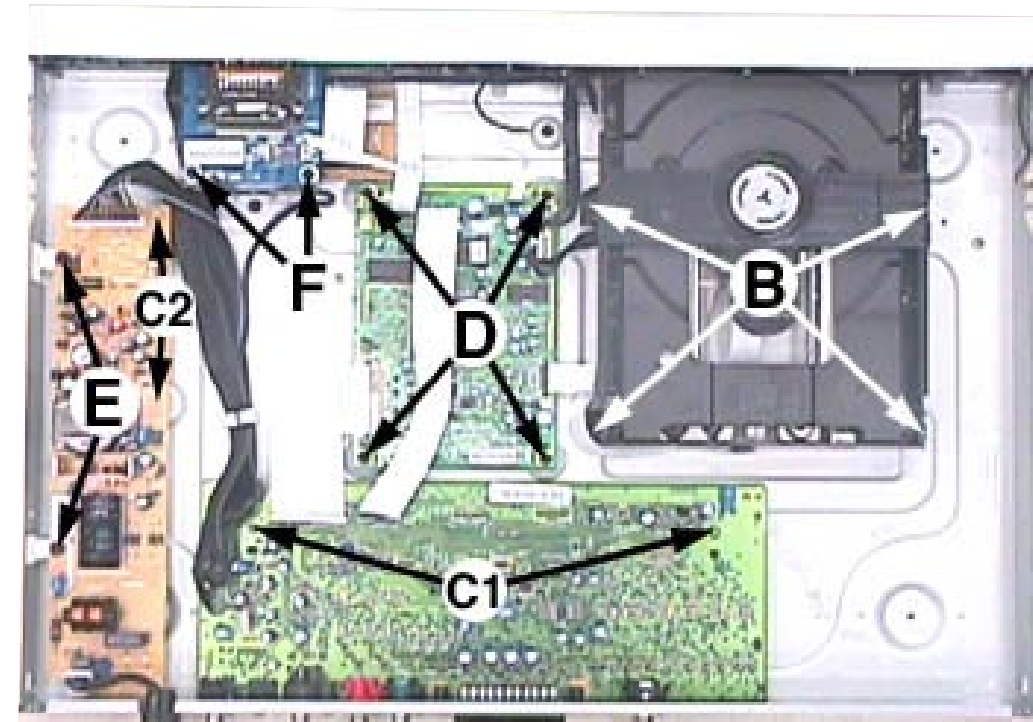
Figure 4

Detaching the Front Cabinet assembly and the Card Reader

1) Loosen 2 screws F (see Figure 4) and 2 screws G (see Figure 5) at the bottom to detach the Front Cabinet assembly from the Bottom Frame (pos 161) by sliding it out towards the front.
   - see Service position C

2) The Card Reader (pos 175) can be detach from the Front Cabinet assembly by pushing in the direction as shown in Figure 6 to loosen it before sliding it out in the direction as shown in Figure 7.

Figure 5

Figure 6

Figure 7

SERVICE POSITIONS

Service position A

AV Board **Thick Insulation Sheet**

Service position B

Thick Insulation Sheet **DVD Loader** **SD6.1 PL 2CH Board**
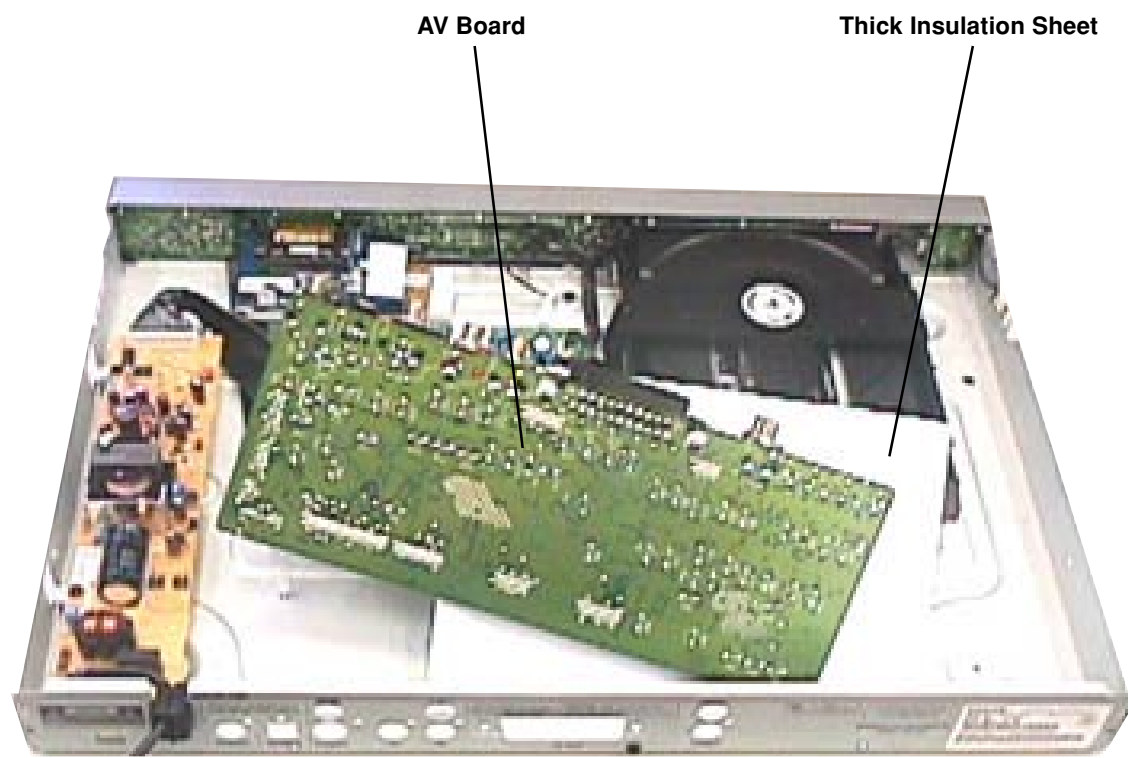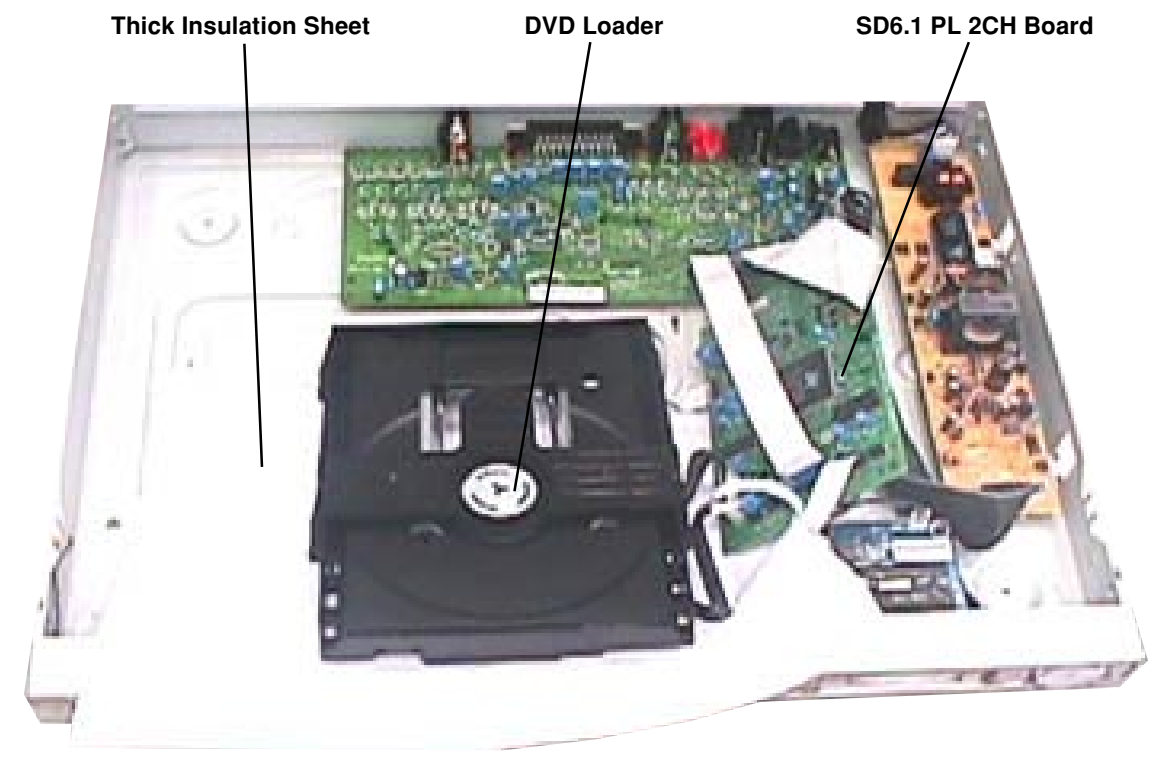
Service position C

SERVICE TEST PROGRAM

To start service test program hold |◄◄ button depressed while set is in standby and press the STANDBY button*

* Mains power to set must be on
Hold |◄◄ button depressed till the Display shown "SVxx-yy"

Display shows the ROM version "SVxx-yy"

S refers to Service Mode
V refers to Version
xx refers to Software version number of the back uProcessor (counting up from 01 to 99)
yy refers to the front uProcessor version number (00 will be displayed if there is no front uProcessor use)

MAIN MENU

DISPLAY TEST

►II Button pressed? — N

Y

Display shows Figure 1

Figure 1

►II Button pressed? — N

Y

Display shows Figure 2

Figure 2

■ Button pressed? — N

Y

Various other Tests

TEST	Activated with	ACTION
EEPROM FORMAT TEST	|◄◄ |◄◄ to Exit	Load default data. Display shows "NEW". *Caution!* *All presets from the customer will be lost!!*
LEAVE SERVICE TEST PROGRAM	Disconnect mains cord	

SD6.1 Service Test Program dd wk0435

Reprogramming of DVD version Matrix

After repair, the customer setting and region code may be 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.

Model	Region	Region Code	TV System
DVP762/00	Europe	2	PAL
DVP762/02	Europe	2	PAL
DVP762/05	Europe	2	PAL
DVP762/78	Latam	4	MULTI

To reprogram do as follows:
1) Power up the set.
2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
3) Press the following buttons on the Remote Control:
    <9> <9> <9> <9> <AUDIO> <1> .... for DVP762/00
    <9> <9> <9> <9> <AUDIO> <3> .... for DVP762/02
    <9> <9> <9> <9> <AUDIO> <4> .... for DVP762/05
    <9> <9> <9> <9> <AUDIO> <7> .... for DVP762/78
4) The display shows '**YYY-ZZ**' and the tray will close.
    YYY   = model number (eg. 762, etc.)
    ZZ   = stroke version (eg. 00, 02, 05, etc.)

Procedure for check Software version

1) Power up the set.
2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
3) Press "DISPLAY" button on the Remote control.
4) The TV screen will shows:
    SD6.1 Vxx YYY-ZZ P   QQ
    SERVO: GGGGGGGG REG:D

    xx   = version number
    YYY   = model number (eg. 762, etc.)
    ZZ   = stroke version (eg. 00, 02, 05, etc.)
    P / D   = region code
    QQ   = version number of front uProcessor
    GGGGGGGG = version for servo code

Procedure to upgrade software

1) Power up the set.
2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
3) Place upgrade CD-ROM onto tray and close.
4) 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**
    - **WRITE**
    - **ERROR** [if upgrade is unsuccessful]
    - **UPG END -> PHILIPS** [if upgrade is successful]
    - **DISC->CLOSE->LOAD** [Tray will close indicating that the upgrade process is completed]
5) The whole process should not take more than 5 minutes.

Caution: Do not unplug the set until upgrade is completed.

Trade Mode

Trade mode is a feature that will block all set keys when enabled. It is for dealers to prevent customers from removing disc, changing source etc using the set keys. Rotary and Remote Control (RC) keys are still allowed in Trade mode.

To activate Trade Mode:

1) Power up the set.
2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
3) Then press buttons <2> <5> <9> on the RC.
4) The display shows '**TRA ON**' and the tray will close. Trade Mode is now enabled.

To deactivate Trade Mode:
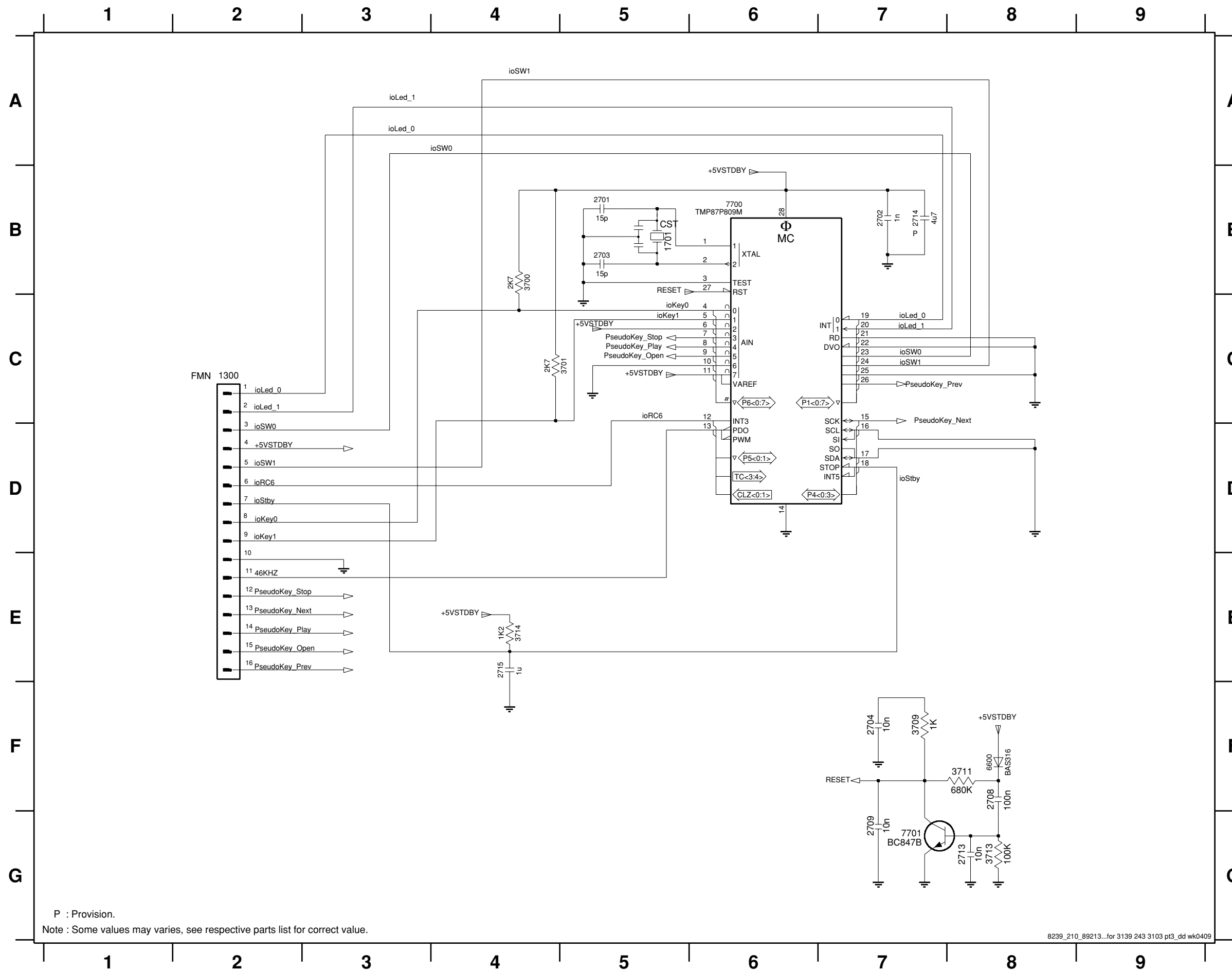
1) Power up the set.
2) Open tray by press and hold "STOP"button on the RC.
3) Then press buttons <2> <5> <9> on the RC.
4) The display shows '**TRA OFF**' and the tray will close. Trade Mode is now disabled.

SET BLOCK DIAGRAM

AV BOARD ASSY (1001)

POWER BOARD (1004)

MODULE PSU DVD HE 2004 MIT

1	Mic_det
2	GND
3	PCM_Mic_In
4	GND
5	SPDIF_out
6	GND
7	NC
8	NC
9	GND
10	G_Y
11	G_REF
12	GND
13	R_V
14	R_REF
15	B_U
16	B_REF
17	G_Y
18	G_REG
19	CVBS
20	CVBS_REF
21	C
22	C_REF
23	Y
24	Y_REF
25	AV_MUTE
26	SCART0 / line 3
27	SCART 1 / line 3
28	NC / line 2
29	P50
30	GND

1	GND
2	GND
3	GND
4	+1V8_sense
5	+1V8
6	+1V8
7	+1V8
8	+5VL
9	GND
10	+8V
11	GND
12	Stby_ctrl
13	DAC_stb
14	VSCK
15	VSDA
16	GND

1	GND
2	PCM_Data_LR
3	GND
4	PCM_Data_SLR
5	GND
6	PCM_Data_SC
7	GND
8	NC
9	GND
10	DAC_SCL
11	DAC_SDA
12	6CH_RST

1303 12 ... 1

1100
3139 111 01721
CBLE MIS 12P/280/12P MIS 260S

1304

1	+3V3
2	GND

1	+5V
2	+12V
3	GND
4	+5Vstby
5	-24V

1107
3139 111 02791
CBLE MIS
02P/280/02P MIS 26OS

CN202

1	+3V3
2	+3V3
3	GND
4	+12V
5	+12Vstby
6	GND
7	+5Vstby
8	GND
9	-12V
10	GND
11	-24V
12	Stby_ctrl

1203 1

1301 16 ... 1

1112 1

1305 1 ... 5

1103
3139 241 00511
FFC FOIL 12P/080/12P AD 1MMP
(for DVP720SA only)

1102
3139 111 02361
FFC FOIL 16P/180/16P AD 1MMP

1101
3139 241 00541
FFC FOIL 30P/120/30P AD 1MMP

1112
3139 110 37571
CBLE HR
05P/280/05P
OE 260S BK

LOADER
DVD Loader ASA

1
24

1101

1303

1301

SD6.1 PL 2CH BOARD

Multi Card Module (0175)
- Card Reader Writer

1	NC
2	USBP
3	USBM
4	NC

1102

1103

1106
3139 241 00551
FFC FOIL 16P/100/16P AD 1MMP

ECO BOARD ASSY (1003)

1 ... 16

1	ioLED0
2	ioLED1
3	ioSW0
4	+5Vstby
5	ioSW1
6	ioRC6
7	ioStby
8	ioKey0
9	ioKey1
10	GND
11	46kHz
12	PK_Stop
13	PK_Next
14	PK_Play
15	PK_Open
16	PK_Prev

1107 16 ... 1
1104

1105 9 ... 1

1108
3139 241 00821
FFC FOIL 04P/140/04P
AD 1MMP

1105
3139 241 00521 FFC FOIL 09P/140/09P AD 1MMP

1300

FRONT BOARD ASSY (1002)
- Standby

1	GND
2	IOKey0

1104

1	VSTB
2	VSDA
3	VSCK
4	GND
5	46KHz
6	ir
7	ioStby
8	NC
9	NC

1103 1 ... 16

1101 1 ... 5

1102

1
GND
IOKey0

1111
3139 110 37191
CBLE HR
02P/340/02P
OE 260S BK

1200

FRONT BOARD ASSY (1002)
- Front Display

1203
3139 110 30391
CWAS 01 STO-8/01 OP 090 BK 24F

1110
3103 601 00142
CBLE SRA 1P/135/1P SIN UL

ECO BOARD

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ECO BOARD - CIRCUIT DIAGRAM
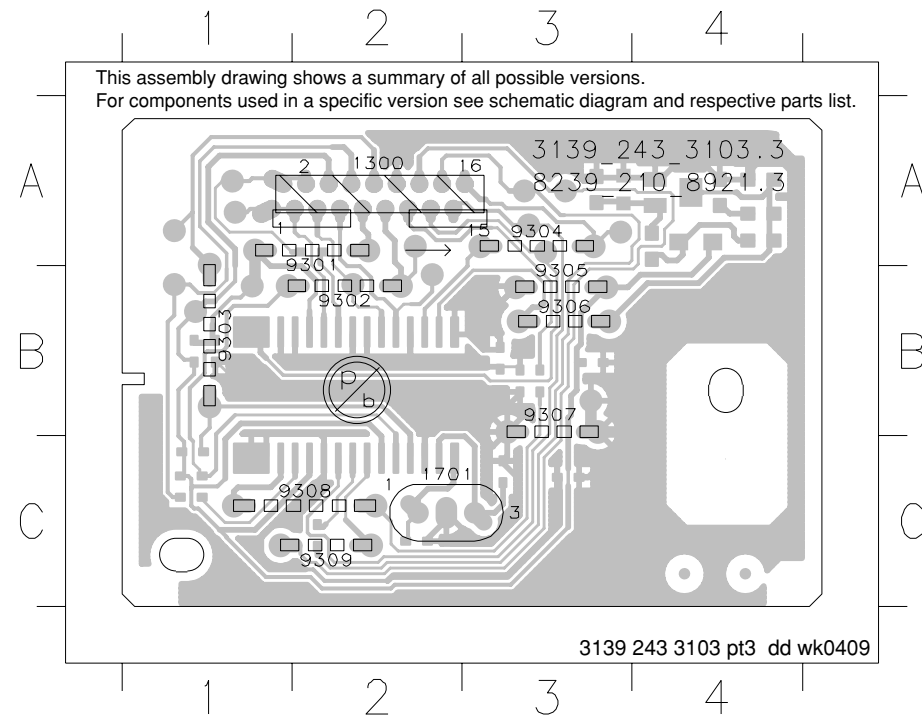
1300 C2
1701 B5
2701 B5
2702 B7
2703 B5
2704 F7
2708 F8
2709 G7
2713 G8
2714 B7
2715 E4
3700 B4
3701 C5
3709 F7
3711 F8
3713 G8
3714 E4
6600 F8
7700 B6
7701 G7

ioSW1

ioLed_1

ioLed_0

ioSW0

+5VSTDBY

2701
15p

CST
1701

7700
TMP87P809M

28

Φ
MC

2702
1n

P 2714
4u7

2703
15p

1
XTAL
2

2K7
3700

3
TEST
27
RESET
RST

ioKey0
4
0
ioKey1
5
1
6
2
+5VSTDBY
7
3
AIN
8
4
PseudoKey_Stop
9
5
PseudoKey_Play
10
6
PseudoKey_Open
11
7
+5VSTDBY
VAREF

2K7
3701

FMN 1300

1 ioLed_0
2 ioLed_1
3 ioSW0
4 +5VSTDBY
5 ioSW1
6 ioRC6
7 ioStby
8 ioKey0
9 ioKey1
10
11 46KHZ
12 PseudoKey_Stop
13 PseudoKey_Next
14 PseudoKey_Play
15 PseudoKey_Open
16 PseudoKey_Prev

#
P6<0:7>

P1<0:7>

19
INT 0
ioLed_0
1
20
ioLed_1
21
RD
22
DVO
23
ioSW0
24
ioSW1
25
26
PseudoKey_Prev

ioRC6
12
INT3
13
PDO
PWM

15
SCK
PseudoKey_Next
16
SCL
SI
17
SO
SDA
18
STOP
INT5
ioStby

P5<0:1>

TC<3:4>

CLZ<0:1>
P4<0:3>

14

+5VSTDBY

1K2
3714

2715
1u

2704
10n

3709
1K

+5VSTDBY

6600
BAS316

RESET
3711
680K

2708
100n

2709
10n

7701
BC847B

2713
10n

3713
100K

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

ECO BOARD - COMPONENT LAYOUT

```
1300  A2    9302  B2    9305  B3    9308  C2
1701  C2    9303  B1    9306  B3    9309  C2
9301  A2    9304  A3    9307  B3
```


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 243 3103 pt3 dd wk0409

ECO BOARD - CHIP LAYOUT

```
2701  C3    2709  A1    3701  C4    4301  A3    4306  C2
2702  B2    2713  A2    3709  A1    4302  C4    6600  A1
2703  C2    2714  B2    3711  A1    4303  C3    7700  B3
2704  A1    2715  B4    3713  A2    4304  B2    7701  A1
2708  A1    3700  C4    3714  B4    4305  B2
```


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 243 3103 pt3 dd wk0409

ELECTRICAL PARTS LIST - ECO BOARD

MISCELLANEOUS

1300	2422 025 18364	Flex Connector 16P
1701	2422 540 98518	RES CER 8MHz

DIODES

6600	4822 130 11397	BAS316

TRANSISTORS & INTEGRATED CIRCUITS

7700	3139 240 50831	TMP87C809BM - 'LX3950S50831'
7701	5322 130 60159	BC847B

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

FRONT BOARD

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FTD DISPLAY PIN CONNECTION

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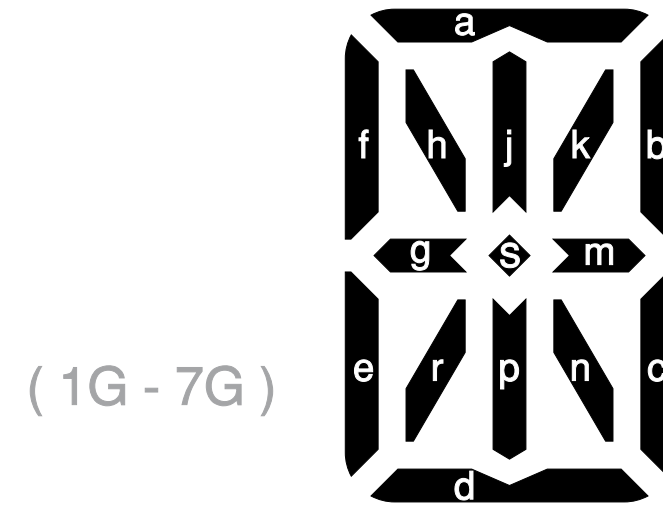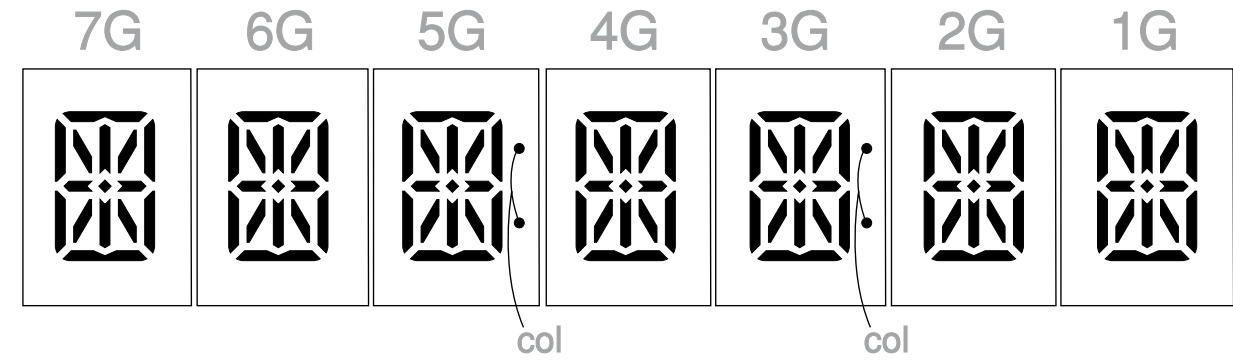
	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	a	a	a
P2	j , p	j , p	j , p	j , p	j , p	j , p	j , p
P3	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d
P14	-	-	col	-	col	-	-
P15	s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

FRONT DISPLAY BOARD - COMPONENT LAYOUT

1100 A1   1102 A3   1104 A4   1106 A6   1108 A6   1110 A1   2102 A6   2110 A3   2114 A4   7102 A3
1101 A6   1103 A4   1105 A6   1107 A1   1109 A6   2100 A5   2106 A3   2112 A5   2115 A4

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 243 3104 pt3   dd wk0433
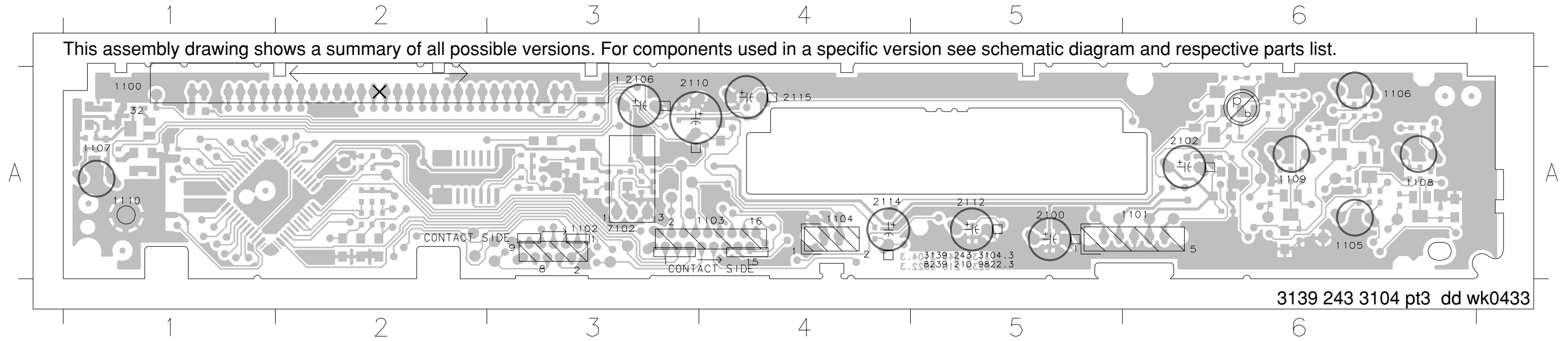
FRONT DISPLAY BOARD - CHIP LAYOUT

2101 A2 2108 A5 3100 A1 3105 A4 3110 A5 3115 A5 3120 A1 3125 A1 3130 A6 3136 A1 4102 A6 4107 A1 4112 A1 6101 A4 6106 A4 6111 A6 7103 A1 7108 A1
2103 A1 2109 A6 3101 A4 3106 A4 3111 A5 3116 A4 3121 A3 3126 A6 3132 A1 3137 A4 4103 A1 4108 A1 4113 A1 6102 A3 6107 A4 6112 A6 7104 A1 7109 A1
2104 A1 2111 A2 3102 A4 3107 A4 3112 A5 3117 A1 3122 A3 3127 A1 3133 A6 3138 A4 4104 A1 4109 A6 4114 A1 6103 A5 6108 A1 6113 A6 7105 A1 7110 A1
2105 A4 2113 A1 3103 A4 3108 A6 3113 A5 3118 A1 3123 A1 3128 A1 3134 A1 4100 A1 4105 A4 4110 A6 4120 A4 6104 A5 6109 A1 6110 A6 7100 A6 7106 A1 7112 A5
2107 A4 2116 A4 3104 A4 3109 A5 3114 A5 3119 A1 3124 A1 3129 A1 3135 A1 4101 A1 4106 A1 4111 A1 6100 A1 6105 A5 6110 A6 7101 A4 7107 A6

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 243 3104 pt3   dd wk0433
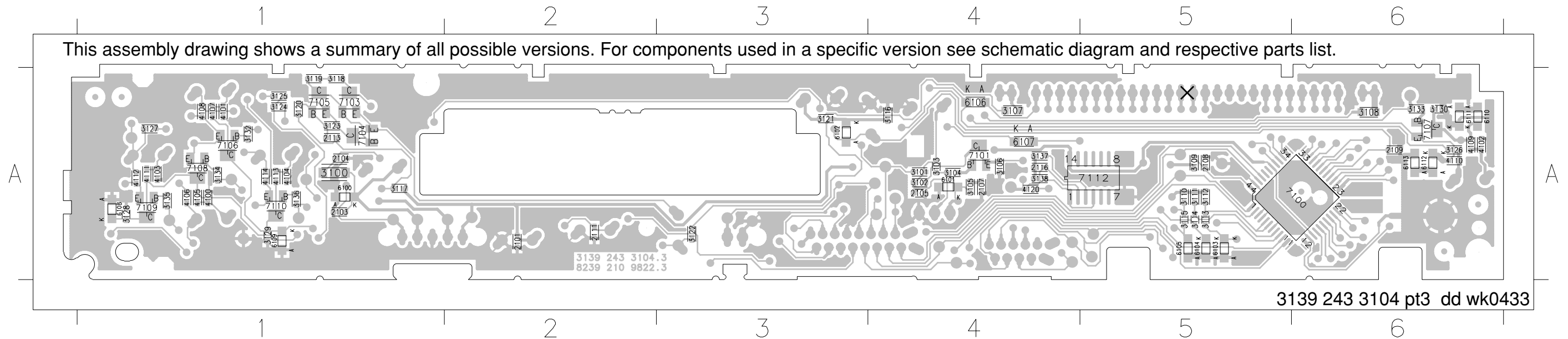
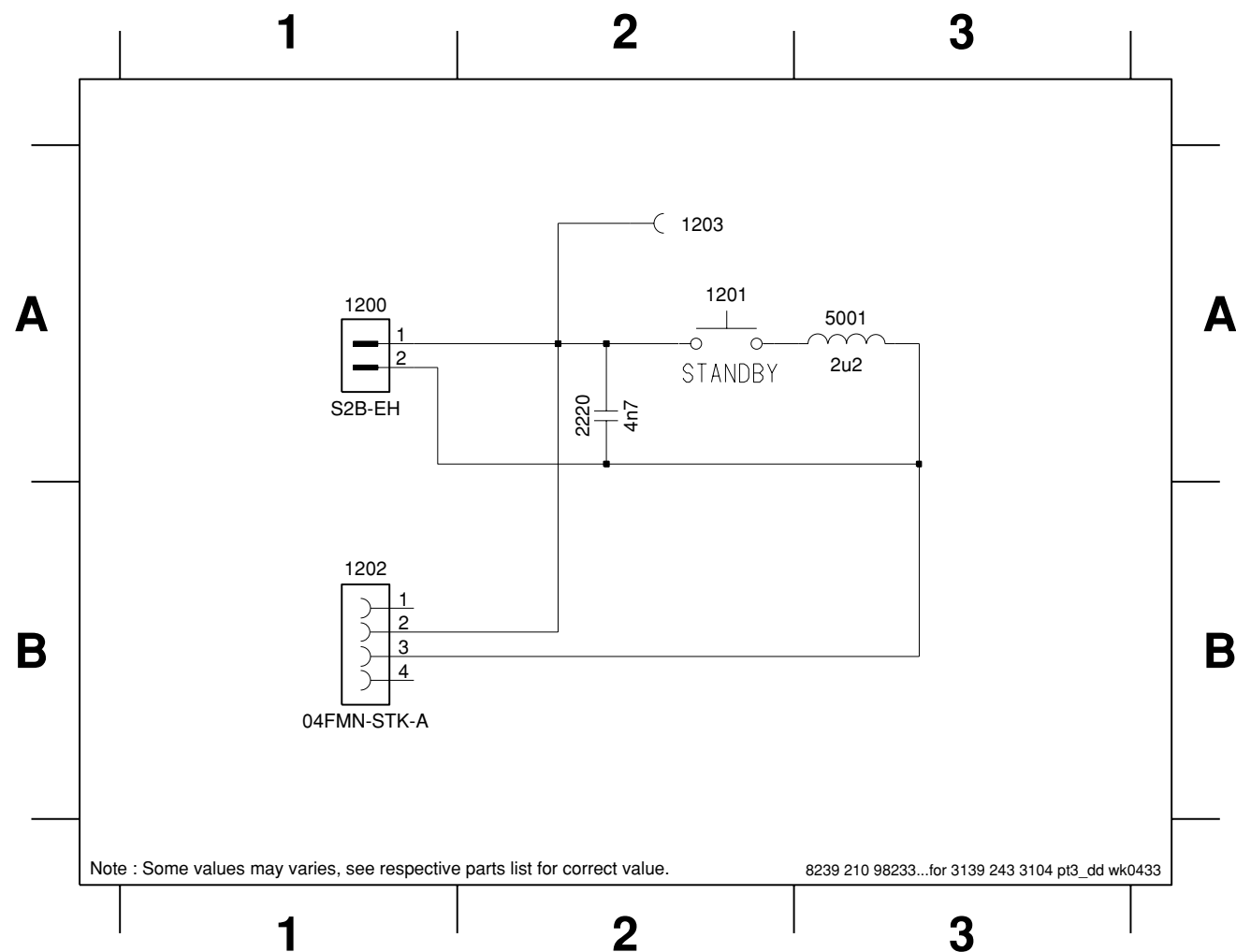# FRONT DISPLAY BOARD - CIRCUIT DIAGRAM
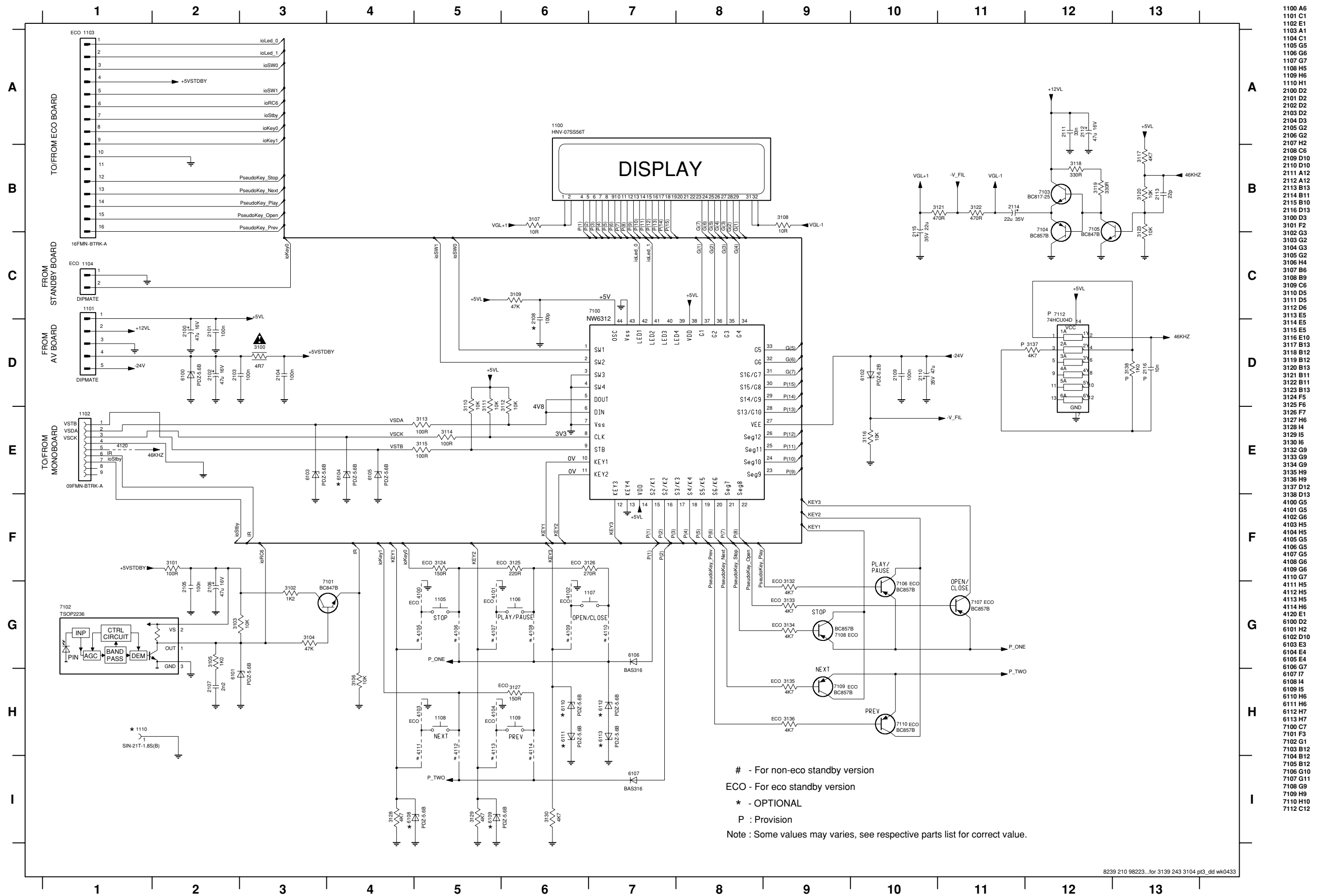
- For non-eco standby version

ECO - For eco standby version

* - OPTIONAL

P : Provision

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

8239 210 98223...for 3139 243 3104 pt3_dd wk0433

STANDBY BOARD - CIRCUIT DIAGRAM

STANDBY BOARD - COMPONENT LAYOUT

STANDBY BOARD - CHIP LAYOUT

1200 A1   1201 A2   1202 B1   1203 A2   2220 A2   5001 A3

Note : Some values may varies, see respective parts list for correct value.   8239 210 98233...for 3139 243 3104 pt3_dd wk0433

1200 A1   1202 A2
1201 A2   1203 A1

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 243 3104 pt3 dd wk0433

2220 A2   5001 A2

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 243 3104 pt3 dd wk0433

ELECTRICAL PARTS LIST - FRONT BOARD

MISCELLANEOUS

1100	3139 240 50661	FTD HNV-07SS56T
1102	2422 025 16586	FLEX CONNECTOR 9P
1103	2422 025 18364	FLEX CONNECTOR 16P
1105	4822 276 13775	TACT SWITCH
1106	4822 276 13775	TACT SWITCH
1107	4822 276 13775	TACT SWITCH
1108	4822 276 13775	TACT SWITCH
1109	4822 276 13775	TACT SWITCH
1201	4822 276 13775	TACT SWITCH

RESISTORS

3100	4822 117 11152 ⚠	RST SM FUSE 1206 4R7 5%

COILS & FILTERS

5001	3198 018 52280	FXD IND SM 0603 2U2 10%

DIODES

6100	3198 020 55680	DIO REG SM PDZ5.6B
6101	3198 020 55680	DIO REG SM PDZ5.6B
6102	9340 548 54115	DIO REG SM PDZ6.2B
6103	3198 020 55680	DIO REG SM PDZ5.6B
6105	3198 020 55680	DIO REG SM PDZ5.6B
6106	4822 130 11397	DIO SIG SM BAS316
6107	4822 130 11397	DIO SIG SM BAS316
6108	3198 020 55680	DIO REG SM PDZ5.6B
6109	3198 020 55680	DIO REG SM PDZ5.6B
6110	3198 020 55680	DIO REG SM PDZ5.6B
6111	3198 020 55680	DIO REG SM PDZ5.6B
6112	3198 020 55680	DIO REG SM PDZ5.6B
6113	3198 020 55680	DIO REG SM PDZ5.6B

TRANSISTORS & INTEGRATED CIRCUITS

7100	9322 186 03671	IC SM UPD16312GB-3B4
7101	5322 130 60159	BC847B
7102	9322 155 82667	IR RECEIVER TSOP2236LL1
7103	4822 130 42804	BC817-25
7104	4822 130 60373	BC857B
7105	5322 130 60159	BC847B
7106	4822 130 60373	BC857B
7107	4822 130 60373	BC857B
7108	4822 130 60373	BC857B
7109	4822 130 60373	BC857B
7110	4822 130 60373	BC857B

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

AV BOARD

TABLE OF CONTENTS

BRIEF INTRODUCTION OF THE AV BOARD

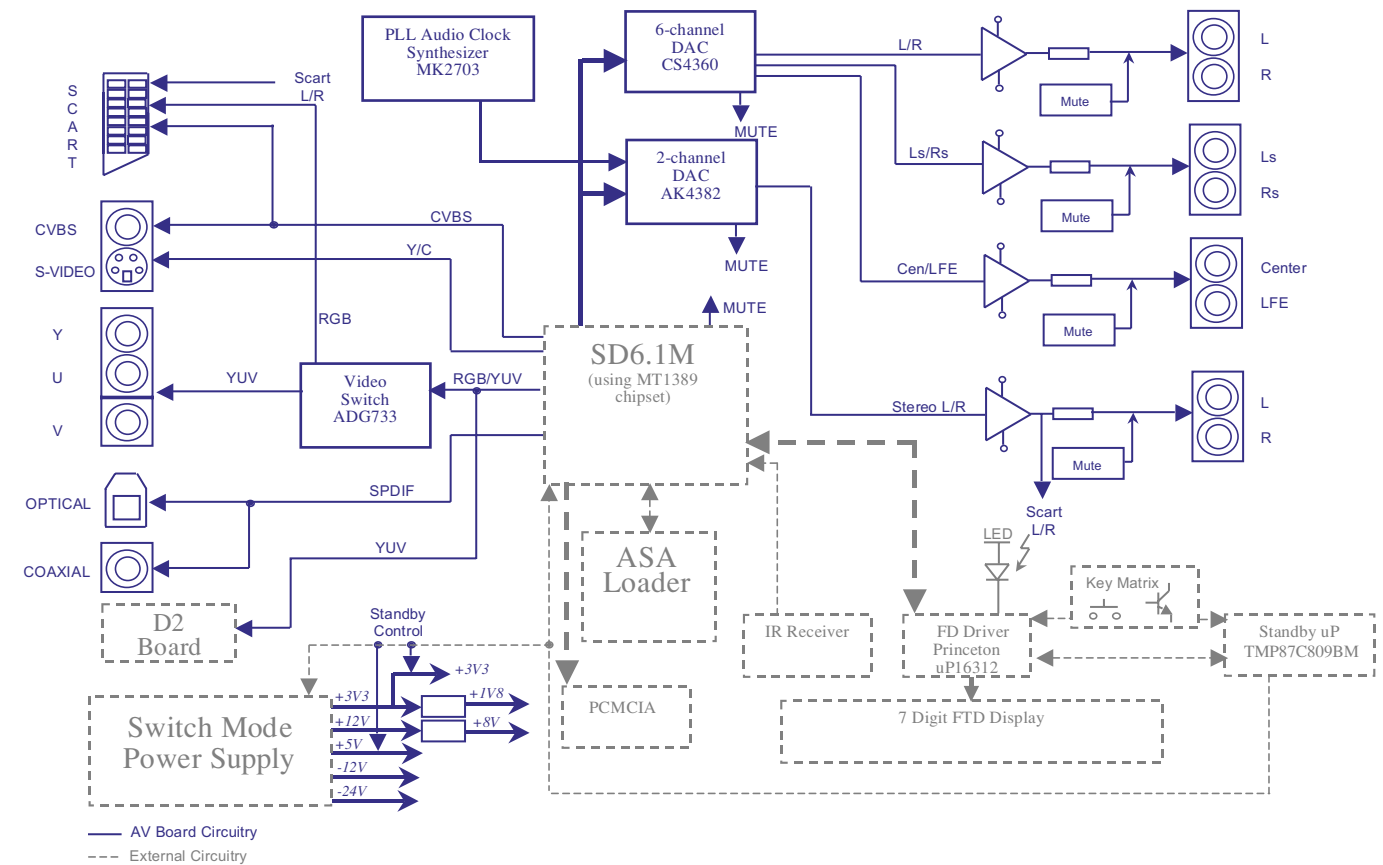The AV Board consists of the following features :

A. VIDEO OUTPUT
  - CVBS
  - S-Video
  - YUV
  - Scart RGB (For Europe Model)
  - Progressive Scan

B. AUDIO OUTPUT
  - Stereo / 6 Channel
  - Coaxial / Optical

AV BOARD - BLOCK DIAGRAM
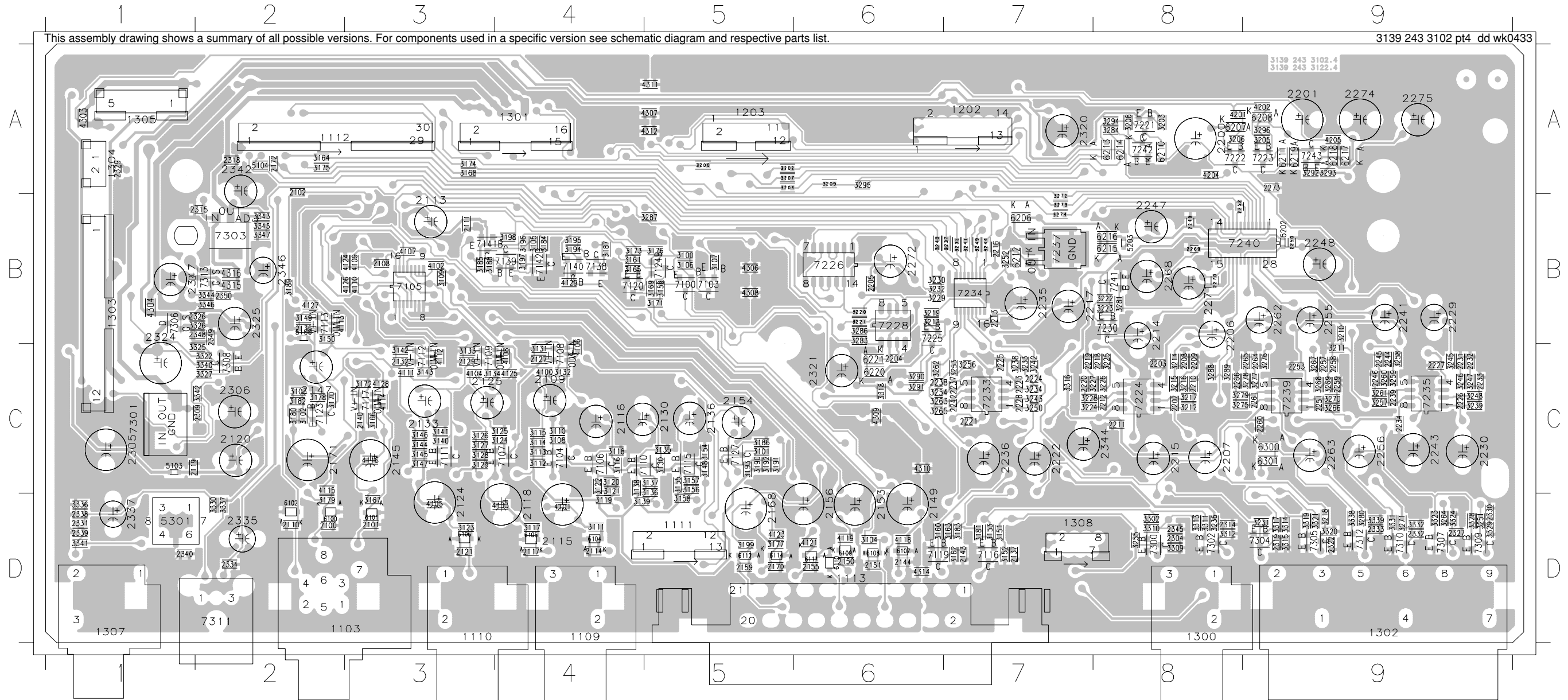
AV BOARD - TOP VIEW LAYOUT

1103 D2	2120 C2	2201 A9	2231 C9	2263 C9	2332 D9	3114 C4	3144 C3	3174 A3	3205 A9	3235 B7	3265 C6	3302 D8	3341 D1	4126 B3	6105 D4	7106 C4	7234 B7
1109 D4	2121 D3	2202 C8	2232 C9	2264 C9	2333 D9	3115 C4	3145 C3	3175 A2	3206 A8	3236 D8	3266 C9	3309 D8	3342 C2	4127 B2	6106 D3	7107 C4	7235 C9
1110 D3	2124 D3	2203 C8	2233 C9	2265 C9	2334 D9	3116 C4	3146 C3	3176 B5	3207 A5	3237 B7	3267 C9	3310 D8	3343 B2	4128 C3	6107 D6	7108 C4	7237 B7
1111 D5	2125 C3	2204 C6	2234 C9	2266 C8	2335 D2	3117 D4	3147 C3	3177 D5	3208 A8	3238 C7	3268 C9	3311 D8	3344 B2	4129 B4	6108 D6	7109 C3	7239 C9
1112 A2	2127 C4	2205 B6	2235 B7	2268 B8	2337 D1	3118 C4	3148 C5	3178 C2	3209 A6	3239 C9	3269 C9	3312 D8	3345 B2	4201 A8	6109 D6	7110 C4	7240 B9
1113 D6	2129 C3	2206 B8	2236 C7	2269 B8	2338 D1	3119 D4	3149 B2	3179 D2	3210 B9	3240 B6	3270 C9	3313 D8	3346 B2	4202 A9	6110 D6	7111 B3	7241 B8
1202 A7	2130 C4	2207 C8	2237 C7	2270 B8	2339 D1	3120 C4	3150 B2	3180 B2	3211 C9	3241 B7	3271 D9	3314 D9	3347 B2	4204 A9	6111 D6	7112 B2	7242 A9
1203 A5	2132 C3	2208 C8	2238 C6	2271 B8	2340 D1	3121 C4	3151 D7	3181 D7	3212 C8	3242 C7	3272 B7	3315 D9	4100 C4	4205 A9	6112 D5	7113 B2	7243 A9
1300 D8	2133 C3	2209 C8	2239 C9	2272 B6	2342 A2	3122 C4	3152 D7	3182 C2	3213 B6	3243 C7	3273 B7	3316 C7	4101 D4	4303 A1	6114 D5	7115 C5	7300 D8
1301 A4	2135 C5	2210 C8	2241 B9	2273 A9	2344 C8	3123 D3	3153 D7	3183 D7	3214 C8	3244 B7	3274 B7	3317 D9	4102 B3	4304 B1	6206 B7	7116 D7	7301 C1
1302 D9	2136 C5	2211 C8	2242 C7	2274 A9	2345 D8	3124 C4	3154 C5	3184 B4	3215 C8	3245 C9	3275 C8	3318 C6	4103 D4	4306 B5	6207 A8	7117 C5	7302 D8
1303 B1	2137 D7	2212 C8	2243 C9	2275 A9	2346 B2	3125 C4	3155 C5	3185 B4	3216 C8	3246 C9	3276 C9	3319 D9	4104 C3	4307 A5	6208 A9	7119 D6	7303 B7
1304 A1	2140 C3	2213 B7	2244 C9	2304 D8	2347 B1	3126 C3	3156 C5	3186 C5	3217 C8	3247 C9	3277 C9	3320 D9	4105 D3	4308 B5	6210 A8	7120 B4	7304 D9
1305 A1	2143 D7	2214 B8	2245 C9	2305 C1	2348 B2	3127 C3	3157 D5	3187 B4	3218 D9	3248 D9	3278 C9	3321 D9	4106 C4	4309 C6	6211 A9	7123 C2	7305 D9
1307 D1	2144 D6	2215 C8	2246 C9	2306 C2	2349 B2	3128 C4	3158 D5	3188 B3	3219 B6	3249 B7	3279 C8	3322 C2	4107 B3	4310 C6	6212 B7	7124 B5	7306 B1
1308 D7	2145 C3	2216 B7	2247 B8	2309 C2	2350 B2	3129 C3	3159 B5	3189 B6	3220 B6	3250 C7	3280 D9	3323 D9	4108 B3	4311 A5	6213 A8	7127 C4	7307 D9
2100 C4	2147 C4	2217 B7	2248 B9	2314 D8	3100 B5	3130 C5	3160 D6	3190 C5	3221 B6	3251 D9	3281 B8	3324 D9	4109 D4	4312 A5	6214 A8	7138 C2	7308 C2
2101 D3	2149 D6	2218 C8	2249 B8	2315 B2	3101 C5	3131 C4	3161 B4	3191 C5	3222 B8	3252 B7	3283 B6	3325 C2	4110 B3	4314 D6	6215 B8	7139 B4	7309 D9
2102 A2	2150 D6	2219 C7	2250 B9	2318 A2	3102 C2	3132 C4	3162 D7	3192 C5	3223 B8	3253 C7	3284 A8	3326 B2	4111 C3	4315 B2	6216 B8	7140 B4	7310 D9
2108 B3	2151 D6	2220 C7	2251 C9	2319 D9	3103 C4	3133 C3	3163 D7	3193 C5	3224 C7	3254 C6	3286 B6	3327 C2	4112 C3	4316 B2	6217 A9	7141 B3	7311 D2
2109 C4	2153 D6	2221 C7	2252 B8	2320 A7	3104 D6	3134 C3	3164 A2	3194 B4	3225 C8	3255 D8	3287 B5	3328 D9	4113 B2	5100 B2	6218 A9	7142 B4	7312 D9
2110 D2	2154 C5	2222 C7	2253 C9	2321 C6	3105 B4	3135 C5	3165 B4	3195 B4	3226 C8	3256 C7	3288 C8	3329 D9	4114 C2	5103 C1	6219 A9	7221 A8	7313 B2
2111 B3	2155 D6	2223 C7	2255 B9	2322 D9	3106 B5	3136 C5	3166 C3	3196 B4	3227 C7	3257 C9	3289 C8	3330 D2	4115 C2	5104 D6	6220 C6	7222 A8	
2113 D4	2156 D5	2224 C7	2256 C9	2324 B1	3107 B5	3137 C5	3167 D3	3197 B4	3228 C7	3258 C9	3290 C6	3331 D9	4118 D6	5202 B9	6221 C6	7223 A9	
2114 D4	2159 D5	2225 C7	2257 C9	2325 B2	3108 C4	3138 C4	3168 A3	3198 B4	3229 B6	3259 C9	3291 C6	3332 D9	4119 D6	5203 B8	6300 D9	7224 C8	
2115 D4	2168 D5	2226 C9	2258 C9	2326 B2	3109 B3	3139 D4	3169 B5	3199 D5	3230 B6	3260 C9	3292 A9	3336 D1	4121 D6	5301 D1	6301 C9	7225 B6	
2116 C4	2170 D5	2227 C9	2259 C9	2327 D9	3110 C4	3140 C5	3170 C5	3200 A5	3231 D9	3261 C9	3293 A9	3337 D2	4123 D5	6100 D2	7100 B5	7226 B6	
2117 D4	2171 C2	2228 C7	2260 C9	2329 A1	3111 D4	3141 C3	3171 B5	3202 A5	3232 B6	3262 C6	3294 A8	3338 D9	4124 B3	6101 D3	7103 B5	7228 B6	
2118 D4	2172 A2	2229 B9	2261 C9	2330 D9	3112 C4	3142 C3	3172 C3	3203 A8	3233 C7	3263 C6	3295 A6	3339 D9	4125 C4	6102 D2	7104 C4	7230 B8	
2119 C1	2200 A8	2230 C9	2262 B9	2331 D1	3113 C4	3143 C3	3173 B4	3204 A5	3234 C7	3264 D9	3296 A9	3340 C2		6104 D4	7105 B3	7233 C7	

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 243 3102 pt4 dd wk0433

AV BOARD - BOTTOM VIEW LAYOUT

1103 D7	1113 D4	1302 D1	1308 D3	2118 D6	2133 C7	2153 D4	2200 A2	2215 C2	2235 B3	2248 B1	2268 B2	2305 C9	2325 B8	2346 B8
1109 D6	1202 A3	1303 B9	2109 C6	2120 C8	2136 C5	2154 C5	2201 A1	2217 B3	2236 C3	2255 B1	2271 B2	2306 C8	2335 D8	2347 B9
1110 D7	1203 A5	1304 A9	2113 B7	2124 D7	2145 C7	2156 D4	2206 B2	2222 C3	2241 B1	2256 C1	2272 B4	2320 A3	2337 D9	5301 D9
1111 D5	1300 D2	1305 A9	2115 D6	2125 C7	2147 C8	2168 D5	2207 C2	2229 B1	2243 C1	2262 B1	2274 A1	2321 C4	2342 A8	7301 C9
1112 A8	1301 A6	1307 D9	2116 C6	2130 C5	2149 D4	2171 C8	2214 B2	2230 C1	2247 B2	2263 C1	2275 A1	2324 B9	2344 C2	7311 D8

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 243 3102 pt4 dd wk0433

AV BOARD - CIRCUIT DIAGRAM (PART 1)

1 **VIDEO PART**

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

3139 243 3102 pt4 (AV Circuit 1)_dd wk0433

AV BOARD - CIRCUIT DIAGRAM (PART 2)

The part is mute circuit for eco version while STANDBY ON/OFF

P : Provision

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

For 6 Channel version only

3139 243 3102 pt4 (AV Circuit 2)_dd wk0433

AV BOARD - CIRCUIT DIAGRAM (PART 3)

3

POWER_PART

AUDIO_SPDIF_OUTPUT

From PSU Board

To Front Board

To HP Board

To Mono Board

For 6 Channel version only

* only for Non-Eco version
# only for Eco version
P : Provision
Note : Some values may varies, see respective parts list for correct value.

3139 243 3102 pt4 (AV Circuit 3)_dd wk0433

1300 A10	7307 D9		
1301 B7	7308 E3		
1302-1 C10	7309 E9		
1302-2 D10	7310 E9		
1303 C1	7311 H9		
1304 C4	7312 F9		
1305 E1	7313 B2		
1307 G11			
1308 F1			
2304 A9			
2305 A3			
2306 A3			
2309 A4			
2314 B9			
2315 C3			
2318 C5			
2319 C9			
2320 F4			
2321 F5			
2322 C9			
2324 E2			
2325 E4			
2326 E4			
2327 D9			
2329 C3			
2330 E9			
2331 G9			
2332 E9			
2333 F9			
2334 H10			
2335 H10			
2337 G9			
2338 G9			
2339 G10			
2340 H10			
2342 C5			
2344 F5			
2345 B8			
2346 C4			
2347 C3			
2348 E3			
2349 E3			
2350 C2			
3302 A9			
3309 A9			
3310 A9			
3311 B9			
3312 B9			
3313 B9			
3314 C9			
3315 C9			
3316 F4			
3317 C9			
3318 F3			
3319 C9			
3320 C9			
3321 D9			
3322 E2			
3323 D9			
3324 D9			
3325 E3			
3326 E3			
3327 F3			
3328 E9			
3329 E9			
3330 G8			
3331 E9			
3332 E9			
3336 G8			
3337 H9			
3338 F9			
3339 F9			
3340 E4			
3341 G10			
3342 E2			
3343 C4			
3344 C2			
3345 C4			
3346 C2			
3347 C4			
4303 D4			
4304 D4			
4306 G3			
4307 G3			
4308 G3			
4309 G3			
4310 H3			
4311 G3			
4312 G3			
4314 G3			
4315 B2			
4316 B3			
5301 G9			
6300 A8			
6301 C8			
7300 A9			
7301 A3			
7302 B9			
7303 B4			
7304 C9			
7305 C9			
7306 E3			

ELECTRICAL PARTS LIST - AV BOARD

MISCELLANEOUS

0002	3139 241 21102	EMC SPRING	/00/02/05
0003	3139 241 21102	EMC SPRING	/00/02/05
1103	2422 033 00468	Socket 2P (S-Video/CVBS)	
1109	2422 026 05529	Socket Cinch 2P (Y/Pb)	
1109	2422 026 05617	Socket Cinch 2P (Y/Pb)	
1110	2422 026 05531	Socket Cinch 1P (Pr)	
1110	2422 026 05605	Socket Cinch 1P (Pr)	
1112	2422 025 17433	Flex Connector 30P	
1112	2422 025 17509	Flex Connector 30P	
1113	2422 025 12352	Socket Scart 21P	/00/02/05
1300	2422 026 05615	Socket Cinch 2P (Stereo L/R)	
1300	2422 026 04754	Socket Cinch 2P (Stereo L/R)	
1301	2422 025 18364	Flex Connector 16P	
1301	2422 025 16525	Flex Connector 16P	
1307	4822 267 31729	Socket Cinch 1P (Coaxial)	
1307	2422 026 05607	Socket Cinch 1P (Coaxial)	

COILS & FILTERS

5100	2422 549 43062	FXD IND 0603 100MHz 600R	
5103	2422 549 43062	FXD IND 0603 100MHz 600R	
5104	4822 051 30008	0R JUMPER 0603	/00/02/05

DIODES

6100	4822 130 11522	PDZ15B	/78
6101	4822 130 11522	PDZ15B	
6102	4822 130 11522	PDZ15B	
6104	4822 130 11522	PDZ15B	
6105	4822 130 11522	PDZ15B	
6106	4822 130 11522	PDZ15B	
6107	4822 130 11522	PDZ15B	/00/02/05
6108	4822 130 11522	PDZ15B	/00/02/05
6109	4822 130 11522	PDZ15B	/00/02/05
6110	3198 020 55680	PDZ5.6B	/00/02/05
6111	4822 130 11522	PDZ15B	/00/02/05
6112	4822 130 11522	PDZ15B	/00/02/05
6206	4822 130 11397	BAS316	
6207	4822 130 11397	BAS316	
6208	4822 130 11397	BAS316	
6210	4822 130 11397	BAS316	
6211	4822 130 11397	BAS316	
6212	4822 130 11397	BAS316	
6213	4822 130 11397	BAS316	
6215	4822 130 11397	BAS316	
6216	4822 130 11397	BAS316	
6217	4822 130 11397	BAS316	
6218	4822 130 11397	BAS316	
6219	4822 130 11397	BAS316	
6220	4822 130 11397	BAS316	
6221	4822 130 11397	BAS316	
6300	4822 130 11397	BAS316	

TRANSISTORS & INTEGRATED CIRCUITS

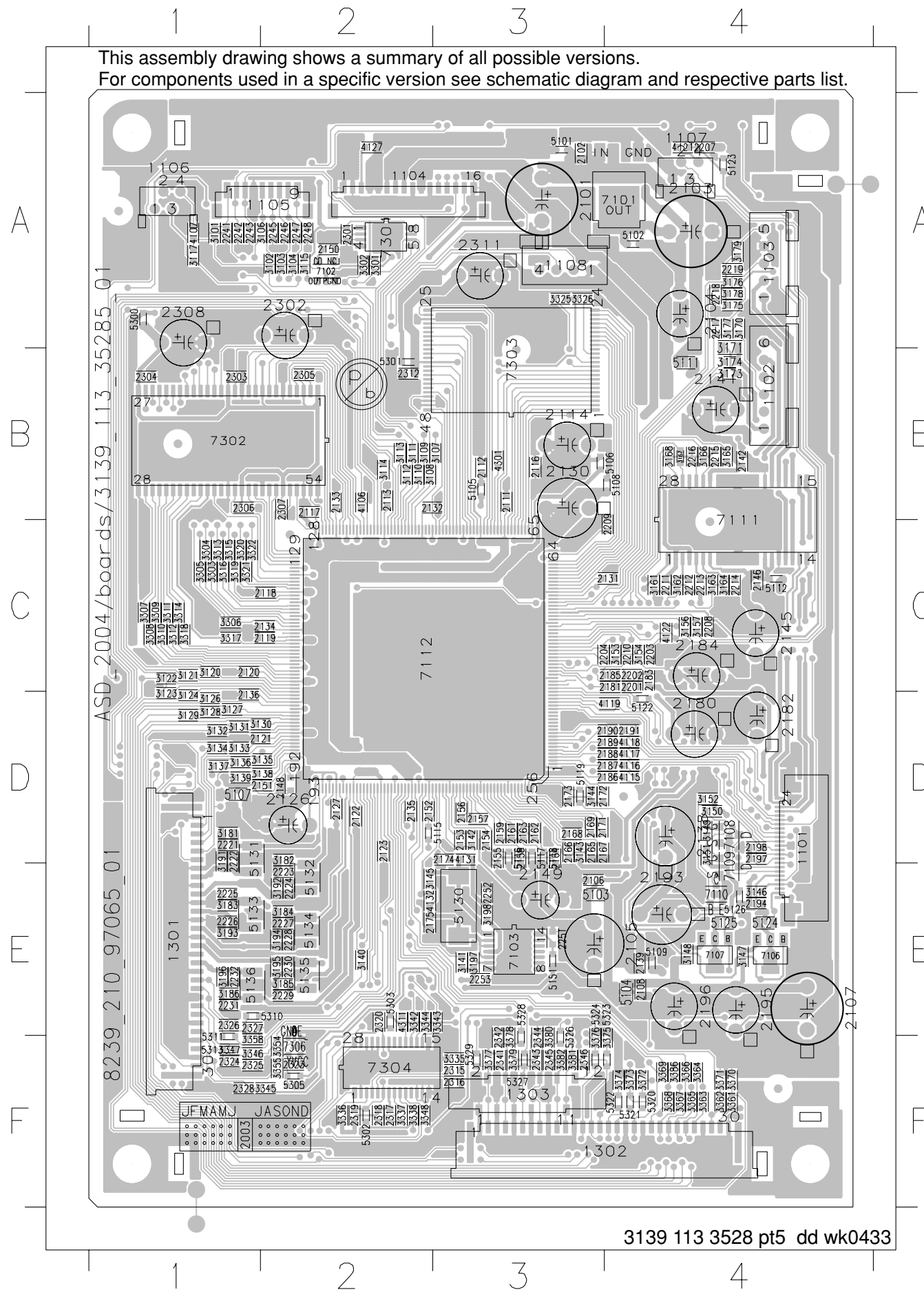|			
7105	9322 195 23668	IC SM ADG733BRU	/00/02/05
7113	9322 200 00685	IC SM AD8091ART	/00/02/05
7116	5322 130 60159	BC847B	/00/02/05
7119	5322 130 60159	BC847B	/00/02/05
7120	5322 130 60159	BC847B	/00/02/05
7123	5322 130 60159	BC847B	/00/02/05
7124	5322 130 60159	BC847B	/00/02/05
7127	5322 130 60159	BC847B	/00/02/05
7138	5322 130 60159	BC847B	/00/02/05
7140	4822 130 60373	BC857B	/00/02/05
7141	5322 130 60159	BC847B	
7142	5322 130 60159	BC847B	
7221	4822 130 60373	BC857B	
7222	4822 130 60373	BC857B	
7223	4822 130 60373	BC857B	
7225	4822 130 60373	BC857B	
7228	9322 151 71668	IC SM MK2703STR	/00/02/05
7233	4822 209 30095	IC SM LM833D	
7234	9322 177 09685	IC SM AK4382AVT	
7237	9322 104 47668	IC SM L78M05CDT	
7242	5322 130 60159	BC847B	
7243	4822 130 60373	BC857B	
7300	4822 130 42804	BC817-25	
7301	4822 209 33083	IC L7808CV	
7302	4822 130 42804	BC817-25	
7303	9322 182 95668	IC SM LD1117S	
7306	9322 178 05685	FET POW SM SI2302DS	
7308	5322 130 60159	BC847B	
7311	9322 175 41687	SOC FIB OPT JFJ1000	
7313	9322 178 05685	FET POW SM SI2302DS	

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

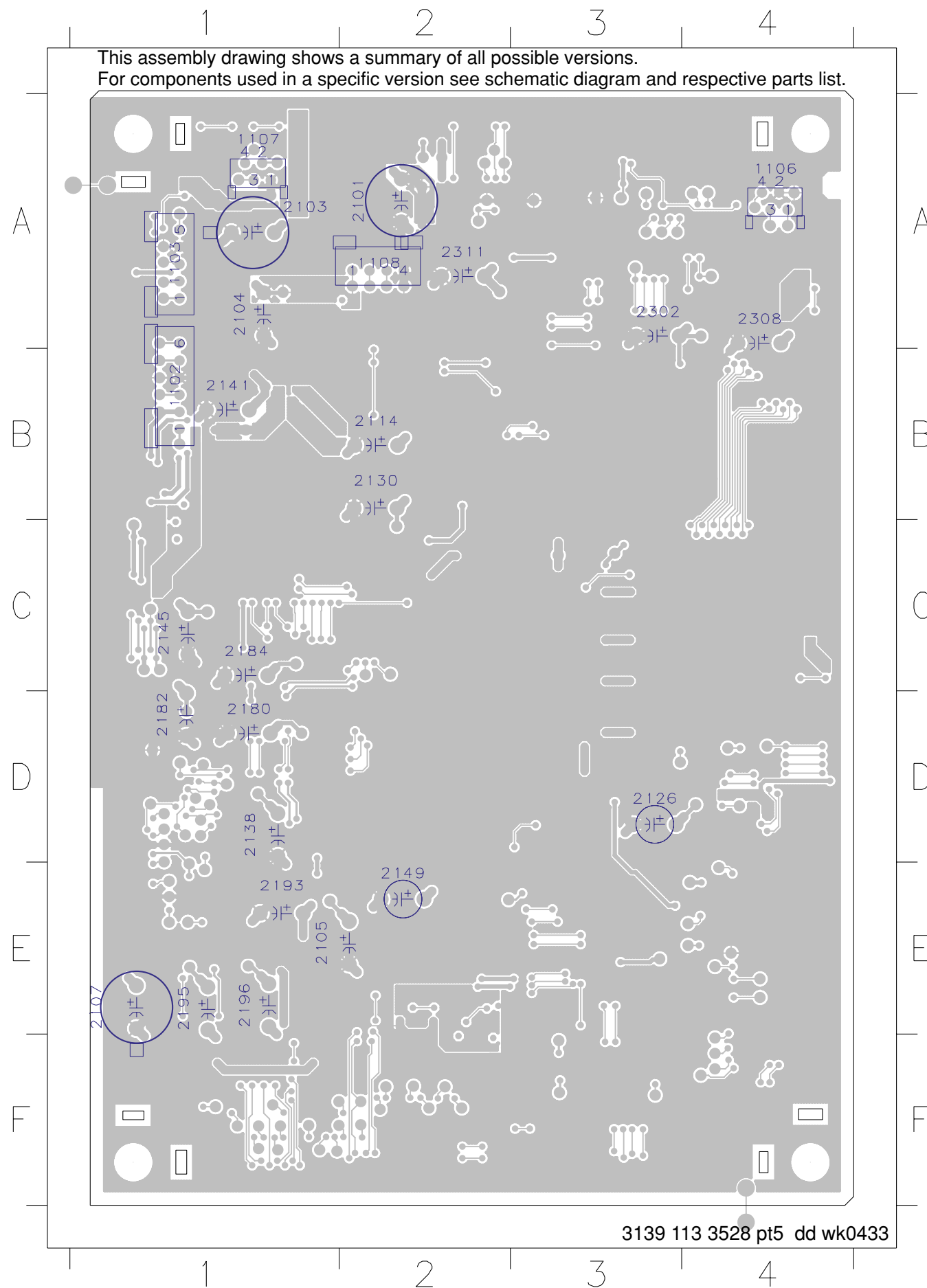# MODULE SD6.1 PL 2CH

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SD6.1 PL 2CH 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.

3139 113 3528 pt5 dd wk0433

1101	D4	2169	D3	2304	B1	3147	E4	3336	F2	5122	D4
1102	B4	2171	D3	2305	B2	3148	E4	3337	F2	5123	A4
1103	A4	2172	D3	2306	B1	3149	D4	3338	F2	5124	E4
1104	A2	2173	D3	2307	B2	3150	D4	3342	E2	5125	E4
1105	A2	2174	D3	2308	A1	3151	D4	3343	E3	5126	E4
1106	A1	2175	E2	2311	A3	3152	D4	3344	E2	5130	E3
1107	A4	2180	D4	2312	F3	3153	C4	3345	F2	5131	D1
1108	A3	2181	C4	2315	F3	3154	C4	3346	F1	5132	E2
1301	E1	2182	D4	2316	F3	3156	C4	3347	F1	5133	E1
1302	F3	2183	C4	2317	F2	3157	C4	3348	F2	5134	E2
1303	F3	2184	C4	2318	F2	3161	C4	3354	F2	5135	E2
2101	A3	2185	C4	2319	F2	3162	C4	3355	F2	5136	E1
2102	A3	2186	D4	2320	E2	3163	C4	3358	F1	5151	E3
2103	A4	2187	D4	2323	F2	3164	C4	3361	F4	5300	A1
2104	A4	2188	D4	2324	F1	3165	B4	3362	F4	5301	B2
2105	E4	2189	D4	2325	F1	3166	B4	3363	F4	5302	F2
2106	E3	2190	D4	2326	E1	3167	B4	3364	F4	5303	E2
2107	E4	2191	D4	2327	E1	3168	B4	3365	F4	5305	F2
2108	E4	2193	E4	2328	F1	3170	A4	3366	F4	5310	E2
2111	B3	2194	E4	2341	F3	3171	B4	3367	F4	5311	F1
2112	B3	2195	E4	2342	F3	3173	B4	3368	F4	5313	F1
2113	B2	2196	E4	2343	F3	3174	B4	3369	F4	5320	F4
2114	B3	2197	D4	2344	F3	3175	A4	3370	F4	5321	F4
2116	B3	2198	D4	2345	F3	3176	A4	3371	F4	5322	F4
2117	B2	2201	C4	2346	F3	3177	A4	3372	F4	5323	E4
2118	C2	2202	C4	3101	A1	3178	A4	3373	F4	5324	E3
2119	C2	2203	C4	3102	A2	3179	A4	3374	F4	5326	F3
2120	C1	2204	C3	3103	A2	3181	D1	3375	F4	5327	F3
2121	D2	2207	A4	3104	A2	3182	D2	3376	F3	5328	E3
2122	D2	2208	C4	3106	A2	3183	E1	3377	F3	5329	F3
2123	D2	2209	C4	3107	B3	3184	E2	3378	F3	7101	A4
2126	D2	2210	C4	3108	A2	3185	E2	3379	F3	7102	A2
2127	D2	2211	C4	3109	B2	3186	E1	3380	F3	7103	E3
2130	B3	2212	C4	3110	B2	3191	D1	3381	F3	7106	E4
2131	C4	2213	C4	3111	B2	3192	E2	3382	F3	7107	E4
2132	B2	2214	C4	3112	B2	3193	E1	3386	F4	7108	D4
2133	B2	2215	B4	3113	B2	3194	E2	4106	B2	7109	E4
2134	C2	2216	B4	3114	B2	3195	E2	4107	A1	7110	E4
2135	D2	2217	A4	3115	A2	3196	E1	4115	D4	7111	C4
2136	D1	2218	A4	3117	A1	3197	E3	4116	D4	7112	C2
2138	D4	2219	A4	3120	C1	3198	E3	4117	D4	7301	A2
2139	E4	2221	D1	3121	C1	3301	A2	4118	D4	7302	B1
2141	B4	2222	D1	3122	C1	3302	A2	4119	D4	7303	B3
2142	B4	2223	E2	3123	D1	3303	C1	4121	A4	7304	F2
2145	C4	2224	E2	3124	D1	3304	C1	4122	C4	7306	F2
2146	C4	2225	E1	3126	D1	3305	C1	4127	A2		
2148	D2	2226	E1	3127	D1	3306	C1	4131	D3		
2149	E3	2227	E2	3128	D1	3307	C1	4132	E2		
2150	A2	2228	E2	3129	D1	3308	C1	4301	B3		
2151	D2	2229	E2	3130	D2	3309	C1	4311	E2		
2152	D2	2230	E2	3131	D1	3310	C1	5101	A3		
2153	D3	2231	E1	3132	D1	3311	C1	5102	A4		
2154	D3	2232	E1	3133	D1	3312	C1	5103	E3		
2155	D3	2241	A1	3134	D1	3313	C1	5104	E4		
2156	D3	2242	A1	3135	D2	3314	C1	5105	B3		
2157	D3	2243	A1	3136	D1	3315	C1	5106	B4		
2158	D3	2245	A2	3137	D1	3316	C1	5107	D1		
2159	D3	2246	A2	3138	D2	3317	C1	5108	B4		
2161	D3	2247	A2	3139	D1	3318	C1	5109	E4		
2162	D3	2248	A2	3140	E2	3319	C1	5111	B4		
2163	D3	2251	E3	3141	D1	3320	C1	5112	C4		
2164	D3	2252	E3	3142	D3	3321	C1	5115	D3		
2165	D3	2253	E3	3143	D3	3322	C1	5116	D3		
2166	D3	2301	A3	3144	D3	3325	A3	5117	D3		
2167	D3	2302	A2	3145	E2	3326	A3	5118	D3		
2168	D3	2303	B1	3146	E4	3335	F3	5119	D3		

SD6.1 PL 2CH 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.

1102	B1
1103	A1
1106	A4
1107	A1
1108	A2
2101	A2
2103	A1
2104	A1
2105	E1
2107	E1
2114	B2
2126	D3
2130	B2
2138	D1
2141	B1
2145	C1
2149	E2
2180	D1
2182	D1
2184	C1
2193	E1
2195	E1
2196	E1
2302	A3
2308	A4
2311	A2

3139 113 3528 pt5 dd wk0433

SD6.1 PL 2CH BOARD - CIRCUIT DIAGRAM (PART 1)

SD6.1 PL 2CH BOARD - CIRCUIT DIAGRAM (PART 2)

@ For receiver
# For player
• Provision

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

nb : sequence reversed if using jst connector

For player

@ For receiver

SD6.1 (circuit 2)_3139 113 3528 pt5_dd wk0433

EXPLODED VIEW - MODULE SD6.1 PL 2CH

EXPLODED VIEW - MODULE DVD LOADER ASA+DV34 PL

0001   3139 117 1069
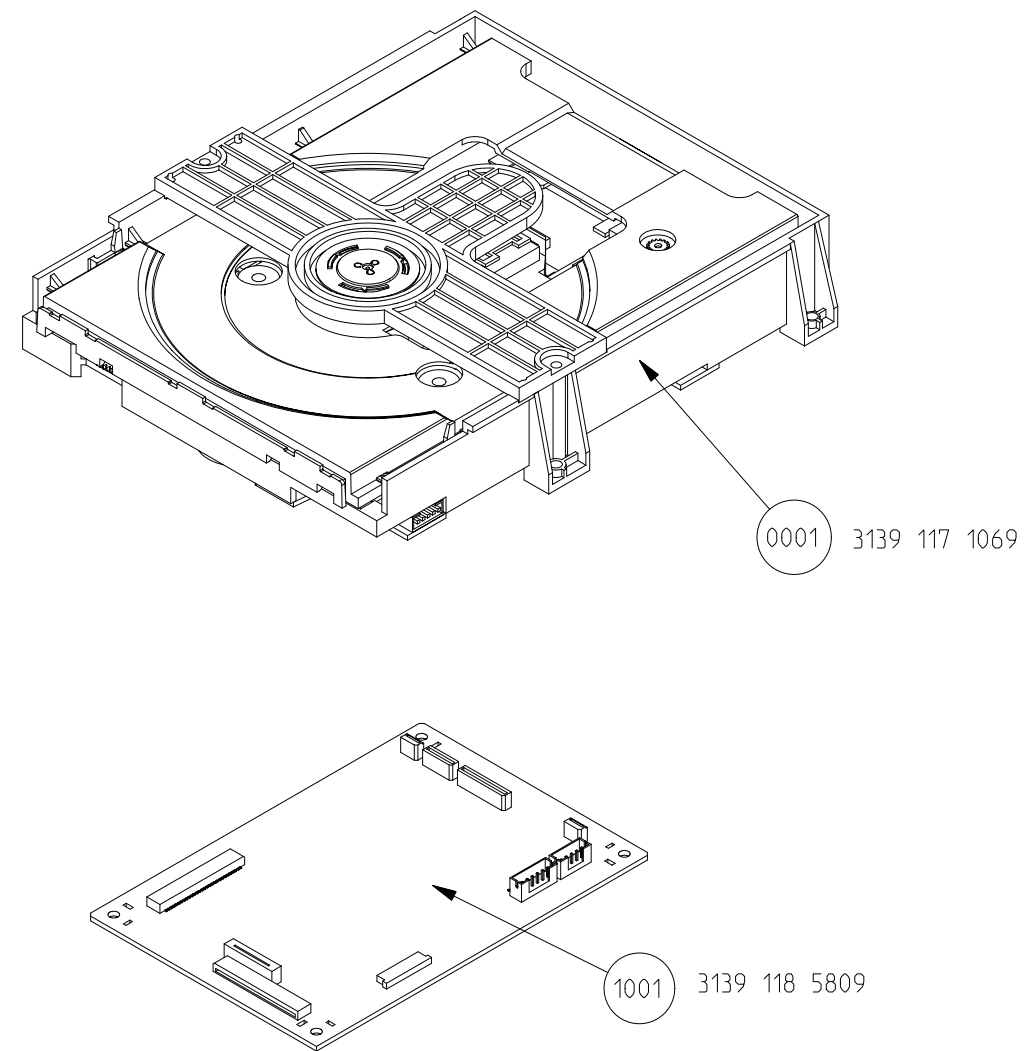
1001   3139 118 5809

Module SD6.1 PL 2CH_3139 117 10931_dd wk0433

0256

0256

0254

0254

0255

0152

0252

0252

0151
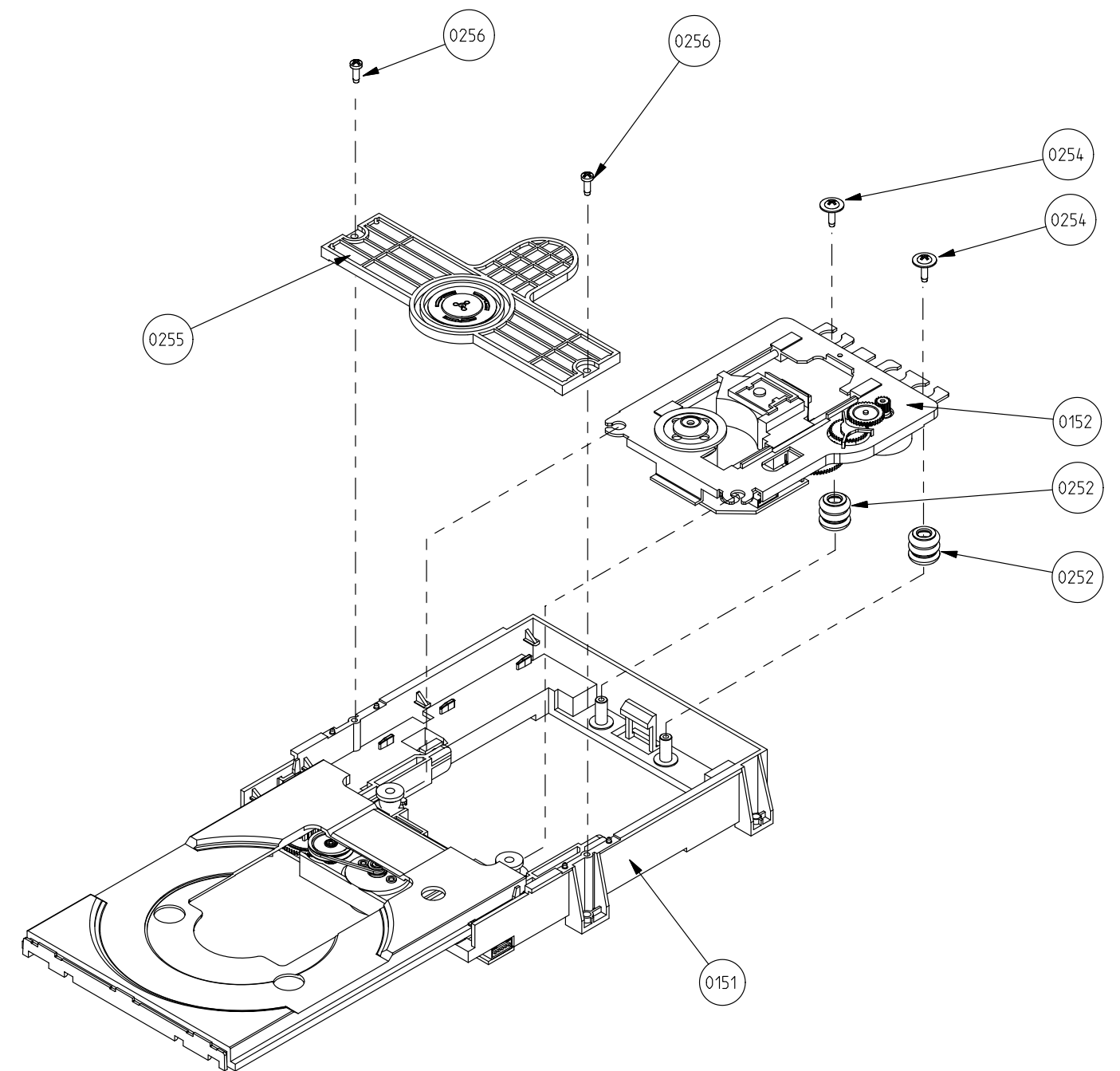
Module DVD Loader ASA+DV34 PL_3139 117 10691_dd wk0409

MODULE SD6.1 PL 2CH PARTS LIST

0001   3139 117 10691   MODULE DVD LOADER ASA+DV34 PL

1001   3139 118 58091   PCBAS SD6.1 PL 2CH PHIL USB

1101   3139 111 04021   FFC FOIL 24P/220 AD 0.5MMP FLD

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

ELECTRICAL PARTS LIST - SD6.1 PL 2CH BOARD

MISCELLANEOUS

|		
1101	2422 025 17529	Flex Connector 24P
1104	2422 025 16388	Flex Connector 16P
1105	2422 025 17768	Flex Connector 9P
1106	2422 025 16727	Flex Connector 4P
1107	2422 025 16727	Flex Connector 4P
1301	2422 025 17451	Flex Connector 30P

COILS & FILTERS

5101	2422 549 45618	IND FXD 0603 100MHz 60R
5102	2422 549 45618	IND FXD 0603 100MHz 60R
5103	4822 157 71206	FXD IND 0805 100MHz 600R
5104	4822 157 71206	FXD IND 0805 100MHz 600R
5105	2422 549 43062	FXD IND 0603 100MHz 600R
5106	2422 549 43062	FXD IND 0603 100MHz 600R
5107	4822 157 71206	FXD IND 0805 100MHz 600R
5108	2422 549 45618	IND FXD 0603 100MHz 60R
5109	2422 549 43062	FXD IND 0603 100MHz 600R
5111	4822 157 71206	FXD IND 0805 100MHz 600R
5112	2422 549 45618	IND FXD 0603 100MHz 60R
5115	2422 549 43062	FXD IND 0603 100MHz 600R
5116	2422 549 43062	FXD IND 0603 100MHz 600R
5117	2422 549 43062	FXD IND 0603 100MHz 600R
5118	2422 549 43062	FXD IND 0603 100MHz 600R
5119	2422 549 43062	FXD IND 0603 100MHz 600R
5122	2422 549 43062	FXD IND 0603 100MHz 600R
5123	2422 549 45618	IND FXD 0603 100MHz 60R
5124	3198 018 31090	FXD IND SM 0805 10U 10%
5125	3198 018 31090	FXD IND SM 0805 10U 10%
5126	2422 549 43062	FXD IND 0603 100MHz 600R
5130	2422 543 01393	RES XTL 27MHz 10P CX8045
5131	3198 018 41880	FXD IND SM 1210 1U8 5%
5132	3198 018 41880	FXD IND SM 1210 1U8 5%
5133	3198 018 41880	FXD IND SM 1210 1U8 5%
5134	3198 018 41880	FXD IND SM 1210 1U8 5%
5135	3198 018 41880	FXD IND SM 1210 1U8 5%
5136	3198 018 41880	FXD IND SM 1210 1U8 5%
5151	2422 549 43062	FXD IND 0603 100MHz 600R
5300	2422 549 43062	FXD IND 0603 100MHz 600R
5301	2422 549 43062	FXD IND 0603 100MHz 600R
5305	2422 549 43062	FXD IND 0603 100MHz 600R
5310	2422 549 43062	FXD IND 0603 100MHz 600R
5311	2422 549 43062	FXD IND 0603 100MHz 600R

TRANSISTORS & INTEGRATED CIRCUITS

7101	4822 209 17398	IC SM LD1117DT33
7102	9322 165 15685	IC SM NCP303LSN30
7103	9351 875 80118	IC SM 74HCU04PW
7106	4822 130 11565	TRA POW SM 2SB1132
7107	4822 130 11565	TRA POW SM 2SB1132
7108	9340 547 13215	FET SIG SM BSH103
7109	9340 547 13215	FET SIG SM BSH103
7110	9340 219 30115	TRA SIG SM BC817-25W

7111	9322 201 94668	IC SM MM1646XH
7112	9322 203 35671	IC SM MT1389EE
7301	9322 189 04668	IC SM M24C16-RDW6
7302	9322 166 67668	IC SM MT48LC4M16A2TG-7E
7302	9322 199 38671	IC SM IS42S16400A-7T
7303	3139 110 53701	FLASH + EMBEDDED SW
7306	9352 687 20125	IC SM 74LVC1G125GW

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

SET MECHANICAL EXPLODED VIEW

Exploded View_8622 810 11584_dd wk0433
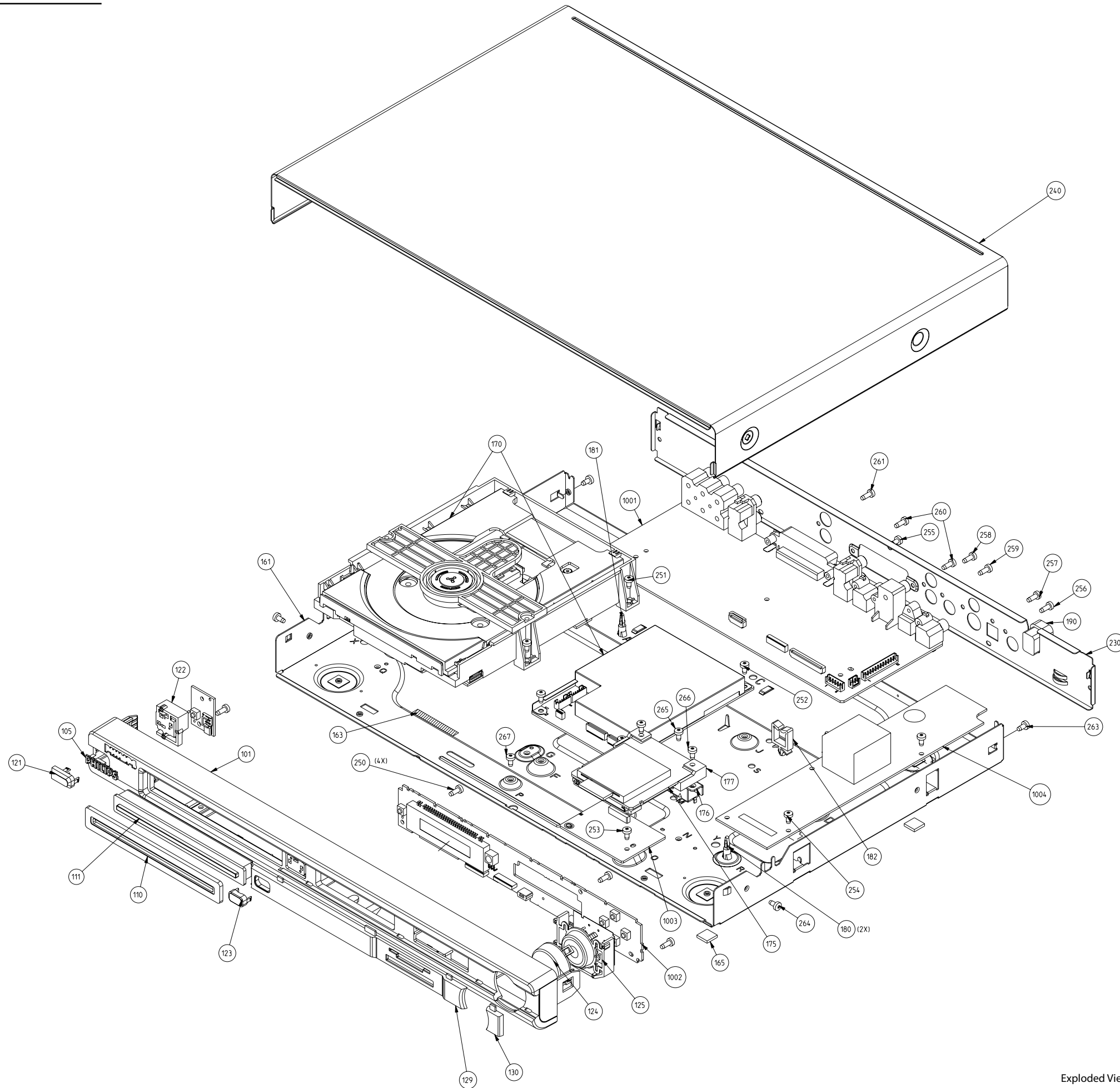
MECHANICAL & ACCESSORIES PARTS LIST - MAIN UNIT   **SCREW LISTS - MAIN UNIT**

0101	3139 244 05351	CABINET FRONT		250	D3 x 8
0105	3139 247 51831	BADGE PHILIPS ASSY SILVER		251	M3 x 6
0110	3139 247 58371	TRAY FRONT		252	M3 x 4
0111	3139 244 05011	TRAY STRIP		253	M3 x 4
0121	3139 247 58481	BUTTON STANDBY TOP		254	M3 x 4
0122	3139 244 03411	BUTTON STANDBY BOTTOM		255	M3 x 4
0123	3139 247 58461	BUTTON OPEN/CLOSE		256	D3 x 8
0124	3139 247 58442	BUTTON CLUSTER TOP		257	D3 x 8
0125	3139 247 58451	BUTTON CLUSTER BOTTOM		258	D3 x 8
0129	3139 244 04661	WINDOW CENTRE		259	D3 x 8
0130	3139 247 58621	WINDOW SIDE		260	D3 x 8 /00/02/05
0165	3139 243 10080	CUSHION FOOT		261	D3 x 8
0175	2822 062 00033	CARD READER WRITER USB1.1 B		263	M3 x 6
0180	3139 240 40061	SPACER - 8MM		264	M3 x 6
0181	3139 240 40061	SPACER - 8MM		265	M3 x 4
0182	2422 015 19894	SADDLE WIRE NY6/6 NT 9.9MM B		266	M3 x 4
0190	4822 532 60948	BUSH		267	M3 x 4
0333	3139 248 72071	REMOTE CONTROL			
0336	2422 070 98231 ⚠	MAINS CORD	/00/02/78		
0336	3103 140 25882 ⚠	MAINS CORD	/05		
0337	3139 128 73010 ⚠	MAINS PLUG ADAPTER	/78		
0338	2422 076 00304	CABLE CINCH 1M5 YE/RD/WH	/78		
0342	2422 076 00445 ⚠	CABLE SCART 1M1 SCART 21P	/00/02/05		
1001	3139 248 83191	PCBAS AV	/00/02/05		
1001	3139 248 83181	PCBAS AV	/78		
1002	3139 248 83211	PCBAS FRONT			
1003	3139 248 83031	PCBAS ECO BOARD			
1004	3139 248 72061	MODULE PSU DVD HE 2004 MIT			
1101	3139 241 00541	FFC FOIL 30P/120/30P AD 1MMP			
1102	3139 111 02361	FFC FOIL 16P/180/16P AD 1MMP			
1105	3139 241 00521	FFC FOIL 09P/140/09P AD 1MMP			
1106	3139 241 00551	FFC FOIL 16P/100/16P AD 1MMP			
1108	3139 241 00821	FFC FOIL 04P/140/04P AD 1MMP			

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

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:
Module PSU DVD HE 2004 MIT 3139 248 72061

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PSU BOARD - CIRCUIT DIAGRAM

D101-D104	1N4005	D301	SB560
D106	SARS01	D501	PR1003
D107	AU02Z, PR1003, FR1003	D501	PR1005
D108	MTZJ7 5 or MA4075	Q201	2SB1592
IC101	MIP2E4DMY	Q401	2SD1768
PC101	PC123, PS2561	Q501	2PC1815, 2SC1815
		Q402, Q502	DTA114
		Q202 Q503	DTC114
D201	D2L20U	Q504, Q505	DTC114
D202	MTZJ36 or MA4360	IC301	TL431
D203	1N4005		