

DVD PLAYER

DVD-C740/DV-C6660

SERVICE MANUAL

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

■ CONTENTS

TO SERVICE PERSONNEL	2-3
PREVENTION OF ELECTROSTATIC DISCHARGE ...	4
LOCALE MANAGEMENT INFORMATION	4
FRONT PANELS	5
REAR PANELS	6
SPECIFICATIONS	7
DIMENSIONS	8
INTERNAL VIEW	8

DISASSEMBLY PROCEDURES	9-10
DIAGNOSTIC SOFTWARE	11-19
IC DATA	20-25
BLOCK DIAGRAM	27
PRINTED CIRCUIT BOARD	28-36
SCHEMATIC DIAGRAM	37-54
PARTS LIST	54-62



このサービスマニュアルは、エコマーク認定の再生紙を使用しています。
This Service Manual uses recycled paper.



■ TO SERVICE PERSONNEL

1. Critical Components Information

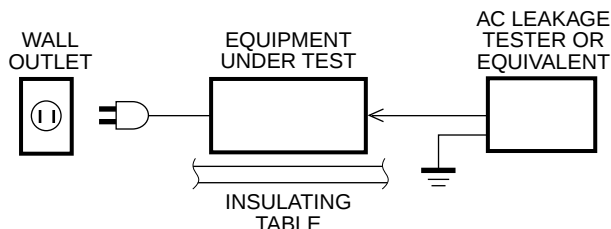
Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.

2. Leakage Current Measurement (For 120V Models Only)

When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohm shunted by 0.15μF.
- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.

THE DVD AUDIO/VIDEO PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.



WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

WARNING: Laser Safety

This product contains a laser beam component. This component may emit invisible, as well as visible radiation, which may cause eye damage. To protect your eyes and skin from laser radiation, the following precautions must be used during servicing of the unit.

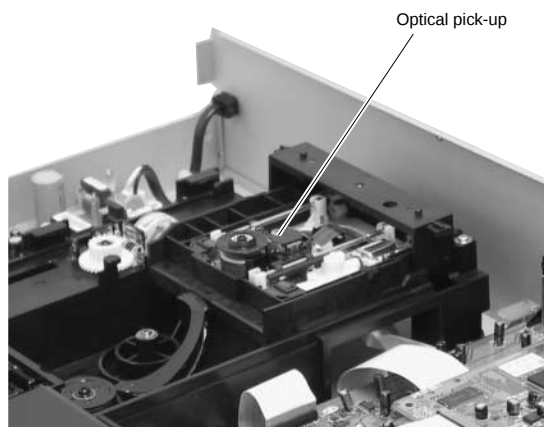
- 1) When testing and/or repairing any component within the product, keep your eyes and skin more than 30 cm away from the laser pick-up unit at all times. Do not stare at the laser beam at any time.
- 2) Do not attempt to readjust, disassemble or repair the laser pick-up, unless noted elsewhere in this manual.
- 3) CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Emitting conditions:

- 1) When the Top Cover is removed, and the STANDBY/ON SW is turned to the "ON" position, the laser component will emit a beam for several seconds to detect if a disc is present. During this time (5-10 sec.) the laser may radiate through the lens of the laser pick-up unit. Do not attempt any servicing during this period!
If no disc is detected, the laser will stop emitting the beam. When a disc is loaded, you will not be exposed to any laser emissions.
- 2) The laser power level can be adjusted with the VR on the pick-up PWB, however, this level has been set by the factory prior to shipping from the factory. Do not adjust this laser level control unless instruction is provided elsewhere in this manual. Adjustment of this control can increase the laser emission level from the device.

Laser Diode Properties

Type: Semiconductor laser GaAlAs
 Wave length: 650 nm (DVD)
 780 nm (VCD/CD)
 Output Power: 0.8 mW (DVD)
 0.3 mW (VCD/CD)
 Beam divergence: 60 degree



VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VARNING! : OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRakta EJ STRÅLEN.

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM

ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING
 UNDGÅ UDSÆTTELSE FOR STRÅLING

ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL
 ÄPNES UNNGÅ EKSPONERING FOR STRÅLEN

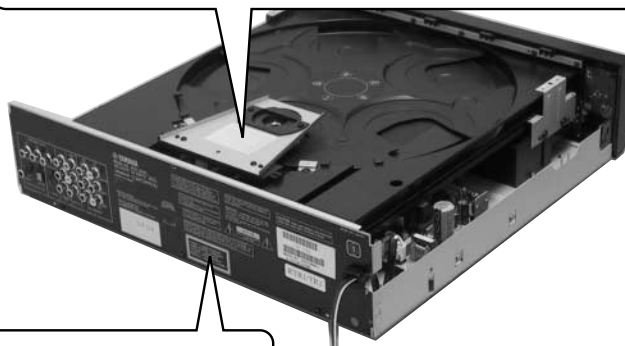
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR
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VARO ! AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA
 NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE, ÄLÄ KATSO SÄTEESEEN

VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG
 WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN

DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN
 OPEN AVOID DIRECT EXPOSURE TO BEAM

ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN
 CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU



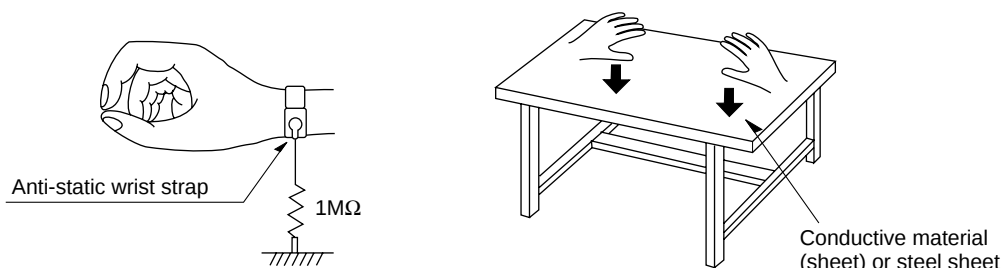
CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
PRODUIT LASER DE CLASSE 1

■ PREVENTION OF ELECTROSTATIC DISCHARGE

The laser diode in the traverse unit (optical pickup) may be damaged due to static electricity from clothes or the human body. Use caution to prevent electrostatic damage when servicing or handling the laser diode.

1. Grounding for electrostatic damage prevention

1. Worktable grounding
Put a grounded conductive material (sheet) or iron sheet on the area where the optical pickup is placed.
2. Human body grounding
Use an anti-static wrist strap to discharge the static electricity from your body.



2. Handling of the optical pickup

1. To prevent damage to the optical pickup replacement parts during transportation and before installation, both ends of the laser diode are short-circuited. After installing the new part, remove the short circuit according to the correct procedure in this service manual.
2. Do not use a tester to check the laser diode in the optical pickup. The power supply in the tester will damage the laser diode.

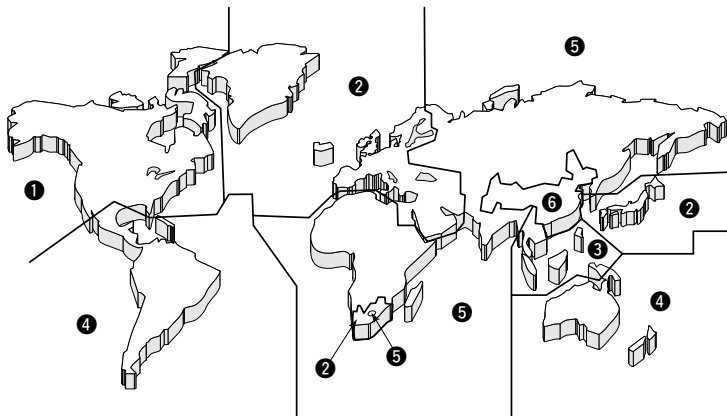
3. Handling Precautions for the Traverse Unit (Optical Pickup)

1. Handle the traverse unit (optical pickup) gently, as it is an extremely high-precision assembly.
2. The flexible cable lines may break if an excessive force is applied to it. Use caution when handling the cable.
3. The semi-fixed resistor for laser power adjustment should not be adjusted. Do not turn the resistor.

■ LOCALE MANAGEMENT INFORMATION

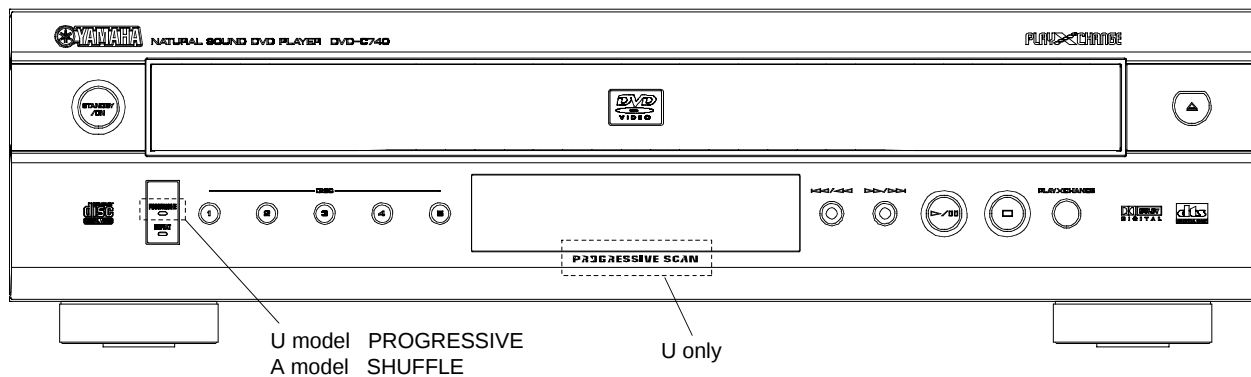
Locale Management Information : This DVD player is designed and manufactured to respond to the Locale Management Information that is recorded on a DVD disc. If the Locale number described on the DVD disc does not correspond to the Locale number of this DVD player, this DVD player cannot play this disc.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

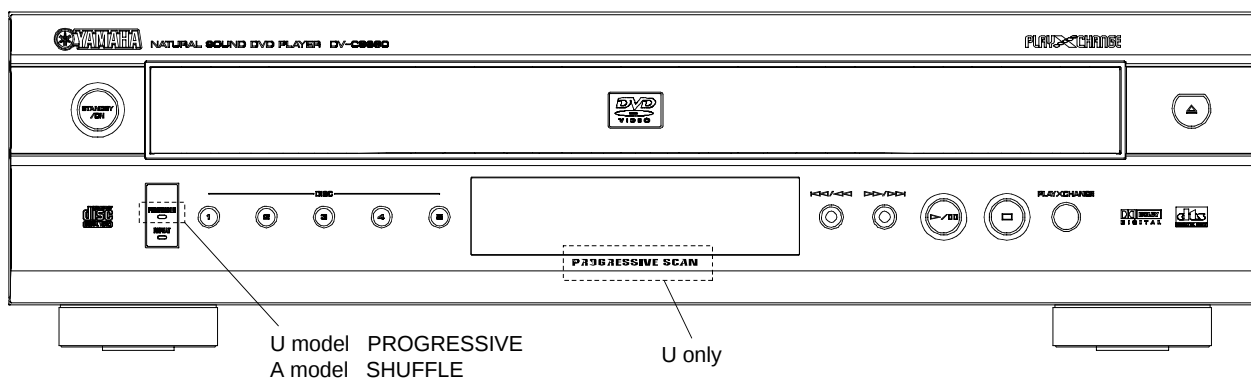


FRONT PANELS

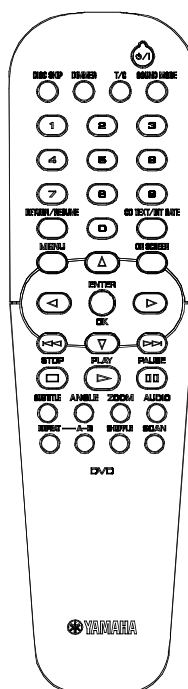
▼ DVD-C740 (U, A models)



▼ DV-C6660 (U, A models)

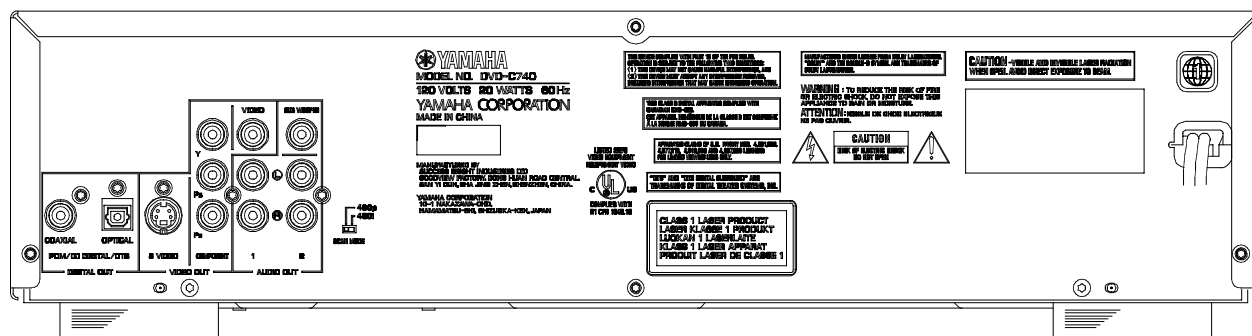


● DVD-C740/DV-C6660

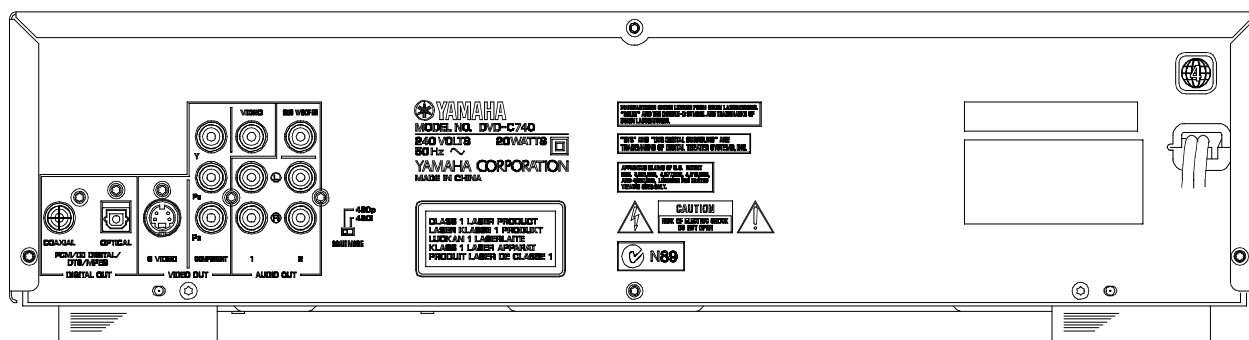


REAR PANELS

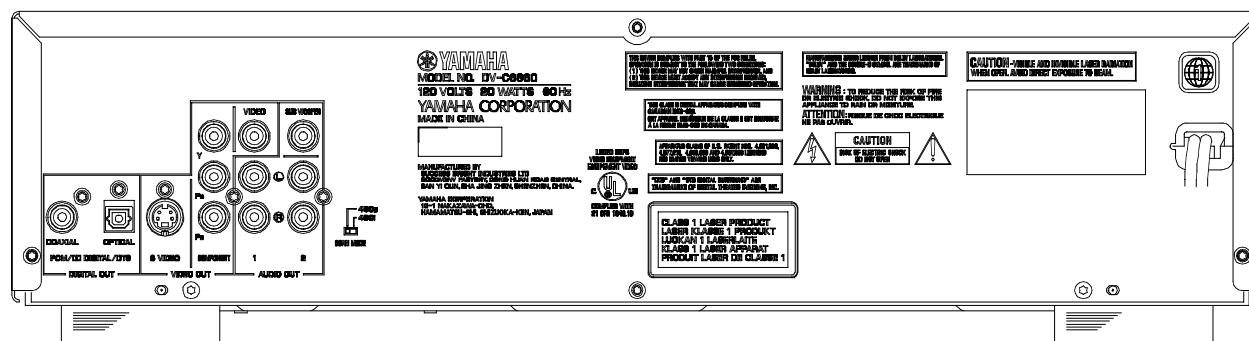
▼ DVD-C740 U model



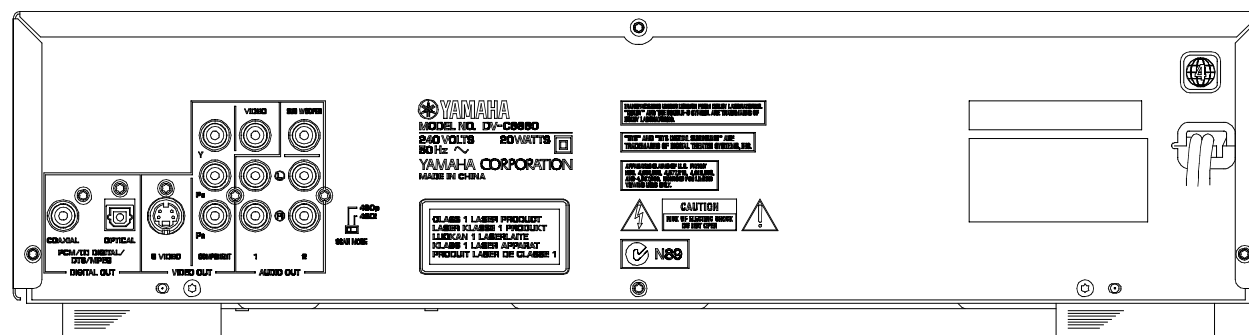
▼ DVD-C740 A model



▼ DV-C6660 U model



▼ DV-C6660 A model



■ SPECIFICATIONS

PLAYBACK SYSTEM

DVD Video
DVD+RW
DVD+R
Video CD and SVCD
CD (CD-R and CD-RW)
MP3 CD

TV STANDARD (PAL/50Hz) (NTSC/60Hz)

Number of lines	625	525
Playback	Multistandard (PAL/NTSC)	

VIDEO PERFORMANCE

Component Video output	Y: 1Vpp into 75 ohm Pr/Cr Pb/Cb: 0.7Vpp into 75 ohm
S-Video output	Y: 1Vpp into 75 ohm C: 0.3Vpp into 75 ohm
Video output	1 Vpp into 75 ohm
Black Level Shift	On/Off
Video Shift	Left/Right

AUDIO FORMAT

Dolby Digital/	Compressed Digital
DTS/MPEG	
PCM	16, 20, 24 bits fs, 44.1, 48, 96 kHz
MP3	96, 112, 128, 256 kbps and
(Joliet)	variable bit rate fs 32, 44.1, 48kHz
Full decoding of Dolby Digital and DTS multi channel sound	
Analog Stereo Sound	
Dolby Surround-compatible downmix from Dolby Digital multi-channel sound	
3D Sound for virtual 5.1 channel sound on 2 speakers	

AUDIO PERFORMANCE

DA Converter	24 bits
DVD	fs 96 kHz 2 Hz - 44 kHz
CD/Video CD	fs 44.1 kHz 2 Hz - 20 kHz
S-Video CD	fs 48 kHz 2 Hz - 22 kHz
	fs 44.1 kHz 2 Hz - 20 kHz
Signal-Noise (1kHz)	105 dB
Dynamic Range (1kHz)	100 dB
Harmonic Distortion + Noise (1kHz)	0.003%
MPEG MP3	MPEG Audio L3

CONNECTIONS

Y Pb/Cb Pr/Cr (480i/p)	Cinch 3x (green, blue, red)
S-Video Output	Mini DIN, 4 pins
Video Output	Cinch (yellow)
Audio L+R output	Cinch (white/red) x2
Subwoofer output	Cinch (black)
Digital Output	1 coaxial, 1 optical
	IEC958 for CDDA / LPCM
	IEC1937 for MPEG1/2, Dolby Digital, DTS

CABINET

Dimensions (w x h x d)	435 x 116 x 425 mm (17-1/8" x 4-9/16" x 16-3/4")
Weight	Approx. 6 Kg (13 lbs 3 oz)

POWER SUPPLY

Power input	U.S.A. model	120V, 60Hz
	Australia model	240V, 50Hz
Power usage	Approx. 20W	
Power usage standby	< 5W	

Finish

DVD-C740	Black Color (U, A models)
DV-C6660	Black Color (U, A models) Silver Color (U, A models)

Accessories

Remote Control, Batteries, Audio/Video Cable

* typical playing time for movie with 2 spoken languages and 3 subtitle languages

Specifications subject to change without prior notice.

U USA model

A Australian model



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

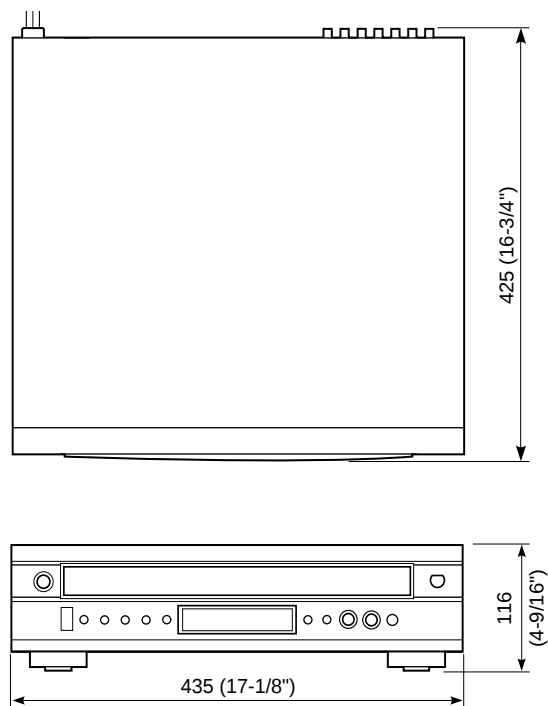


"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.



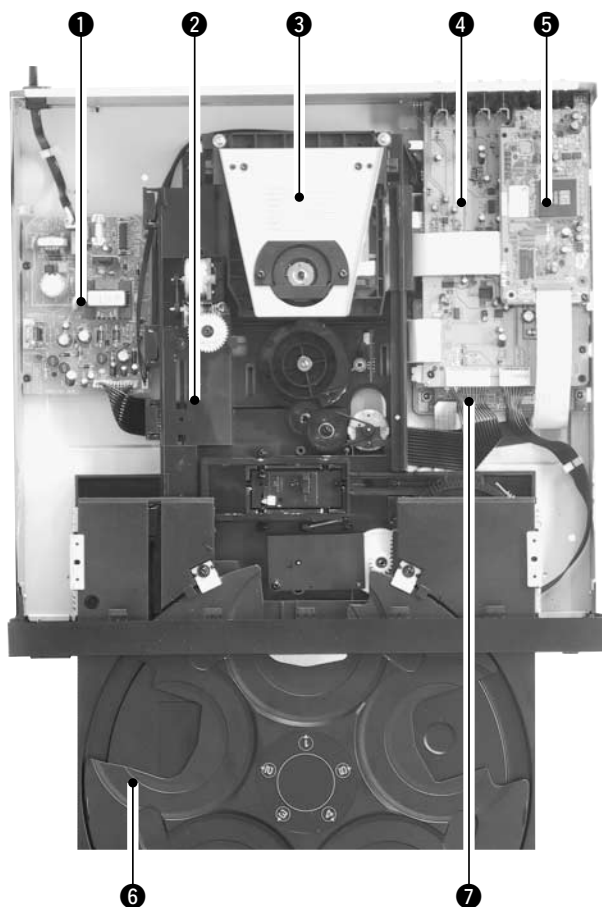
"DCDi" is a trademark of Faroudia, a division of Sage Inc.

■ DIMENSIONS



Unit : mm (inch)

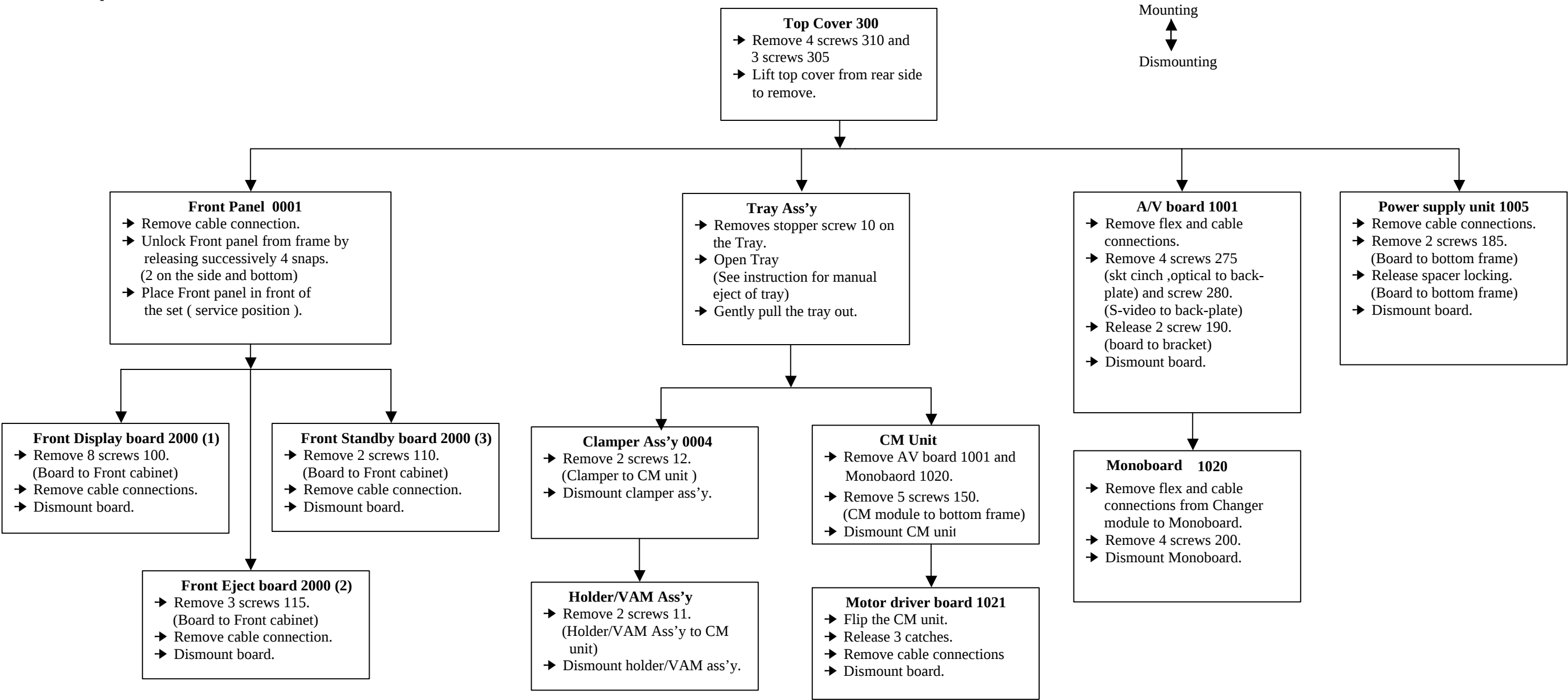
■ INTERNAL VIEW



- ❶ POWER SUPPLY UNIT
- ❷ CM UNIT
- ❸ CLAMPER ASS'Y
- ❹ AV P.C.B.
- ❺ Not applied to these models
- ❻ TRAY ASS'Y
- ❼ MONOBOARD P.C.B.

■ DISASSEMBLY PROCEDURES

See exploded view for item numbers

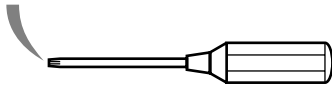


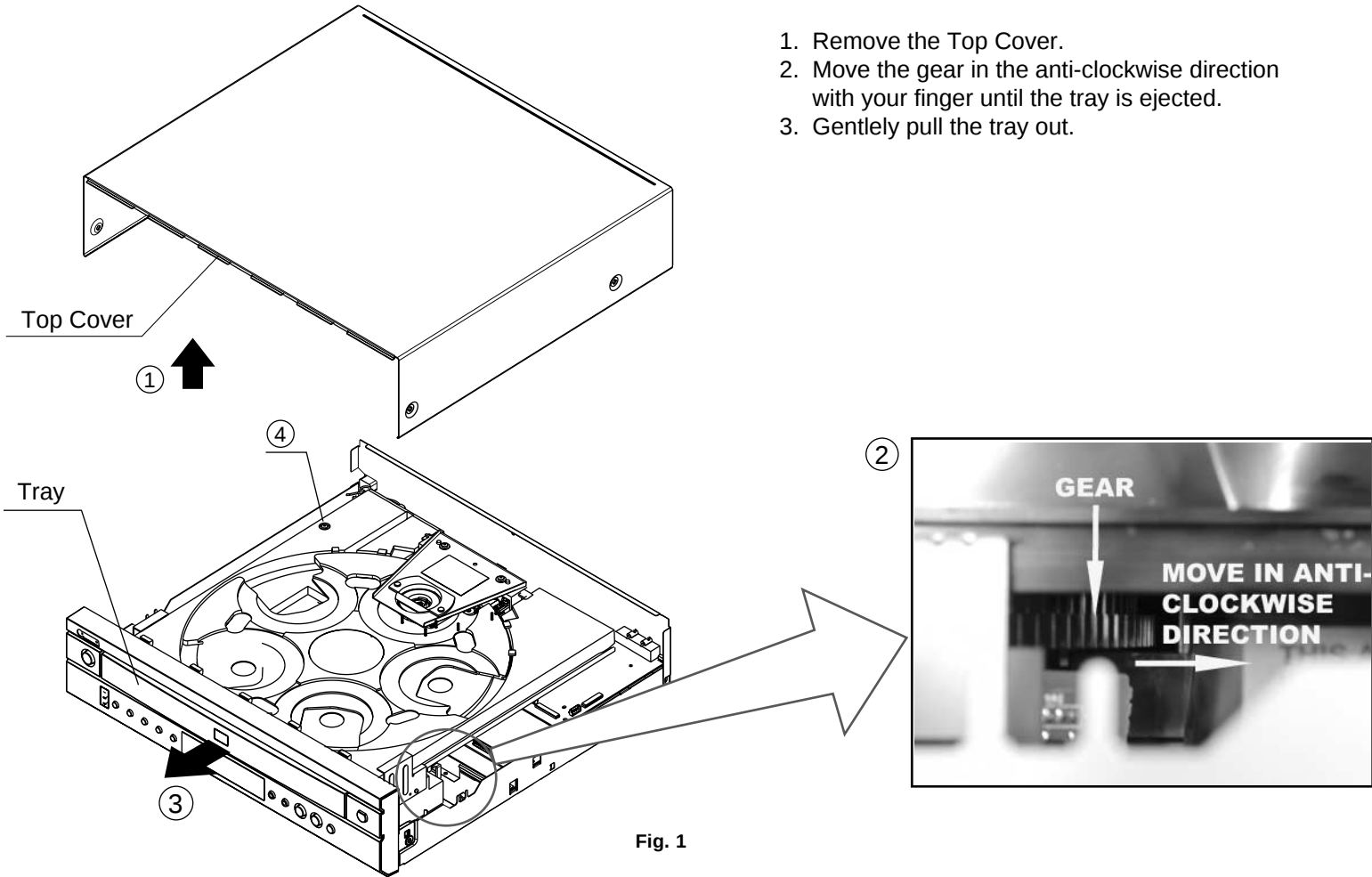
When disassembling, use the special screw driver with tip shape in figure.

T20 3.8 mm

T10 2.7 mm

T6 1.7 mm





HOW TO MANUALLY EJECT THE TRAY

1. Remove the Top Cover.
2. Move the gear in the anti-clockwise direction with your finger until the tray is ejected.
3. Gently pull the tray out.

1. Removal of Tray Ass'y

- a. Remove 1 screw (④) in Fig. 1.
- b. Turn Gear/L0 as shown in Fig. 2 counter clockwise gradually until immediately before the tray starts to move and stop it there.

CAUTION: Gear/L0, if turned counter clockwise continuously, will mesh with the gear of the tray and the tray will come out. When removing the tray, use care so that Gear/L0 will not mesh with the gear of the tray.

- c. Pull out the Tray Ass'y.

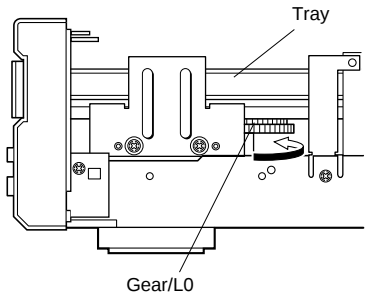


Fig. 2

● **Precaution for installation of the Tray Ass'y.**
On Tray Ass'y setting.
Check the Direction of marking "▲" on gear according to this drawing.

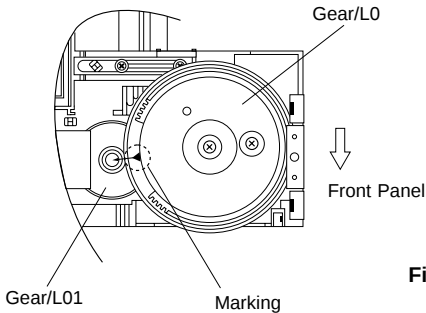
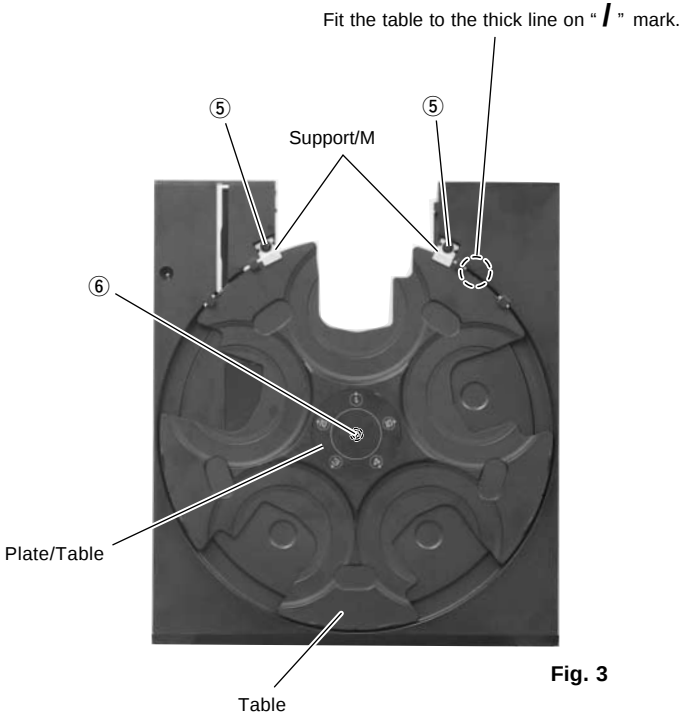


Fig. A

2. Removal of Table

- a. Remove 2 screws (⑤) and then remove the Support/M in Fig. 3.
- b. Remove the Plate/Table in Fig. 3.
- c. Remove 1 screw (⑥) and then take off the Table in Fig. 3.

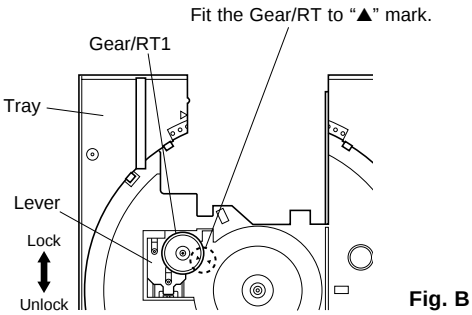


IMPORTANT: Installation of Table.

Install the table according to the following procedure.

- 1) Slide the Lever so that the Gear/RT becomes free. (Fig.B)
- 2) With the "▲" mark on the Gear/RT aligned with the same mark on the Tray, lock it with the Lever. (Fig.B)
- 3) Install the Table by aligning it to the thick line on " / " mark. (Fig.3)

*Check that the Table is locked after installation.



■ DIAGNOSTIC SOFTWARE

1 Dealerscript

1.1 Purpose of Dealer Script

The dealer script can give a diagnosis on a standalone DVD player, no other equipment is needed to perform a number of hardware tests to check if the DVD player is faulty. The diagnosis is simply an "error" or "pass" message. No indication is given of faulty hardware modules. Only tests within the scope of the diagnostic software will be executed hence only faults within this scope can be detected.

1.2 Contents of Dealer Script

The dealer script executes all diagnostic nuclei that do not need any user interaction and are meaningful on a standalone DVD player.

The nuclei called in the dealer script are the following (the number after each nucleus name corresponds with the number being on the local display when the nucleus is executed during the dealer script):

Nucleus

Display Countdown	Nucleus Number	Nucleus Name	Description
9	6	PapChksFl	Calculate and verify checksum of FLASH memory
8	12	PapI2cDisp	Checks the I2C interface with the slave processor on the Display board
7	92c	ChangerI2cExp	Checks the I2C interface with the IO expander on the Buffer board
6	29a	PapI2cLedExp	Checks the I2C interface with the IO expander on the Display board
5	13	PapS2bEcho	Checks the I2C interface to the basic engine
4	11	PapI2cNvram	Checks the I2C interface to the basic engine
3	15	PapNvramWrR	Pattern test of all locations in the NVRAM
2	16	CompSdramWrR	Pattern test of all locations in the SDRAM(s)
1	63	FURORERSdramWrRLow	Pattern test of all locations in the SDRAM(s)

Figure 1 Dealer script nuclei

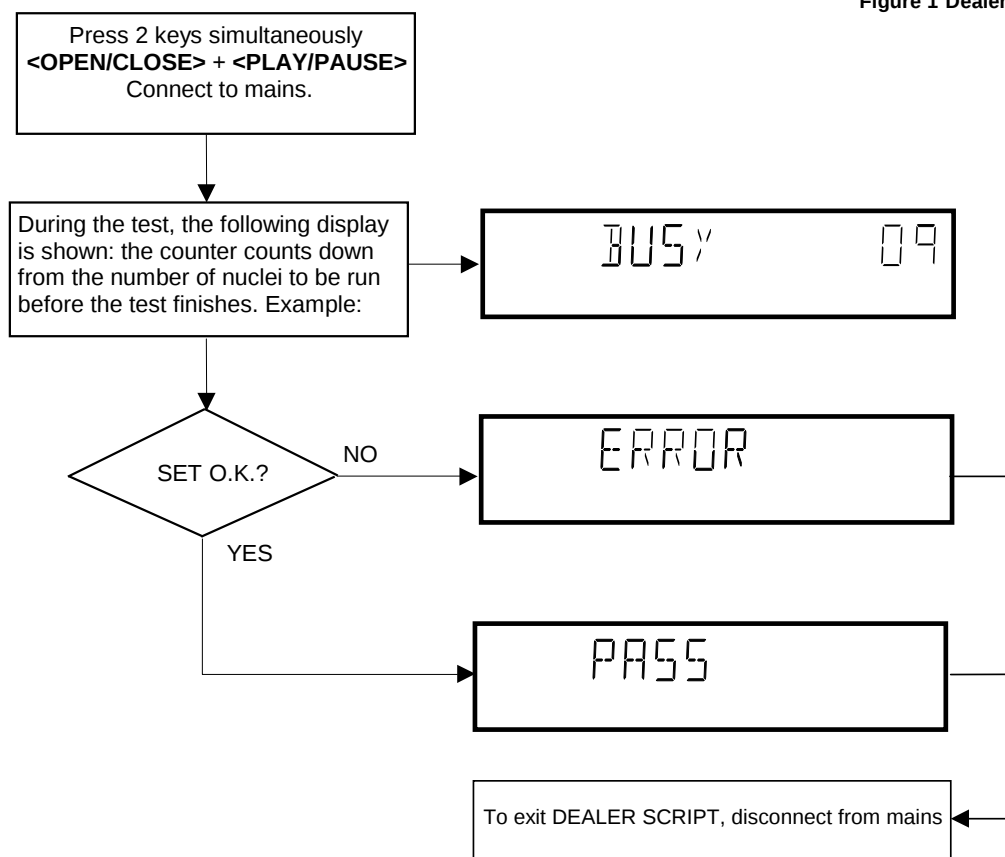


Figure 2 Dealer Script

2 Player Script

2.1 Purpose of Player Script

The Player script will give the opportunity to perform a test that will determine which of the DVD player's modules are faulty, to read the error log and error bits and to perform an endurance loop test. To successfully perform the tests, the DVD player must be connected to a TV set to check the output of a number of nuclei. For DVDv2b a multi-channel amplifier, a set of 6 speakers and an external video source are necessary to test. To be able to check results of certain nuclei, the player script expects some interaction of the user (i.e. to approve a test picture or a test sound). Some nuclei (e.g. nuclei that test functionality of the Basic Engine module) require that the DVD player itself is opened, to enable the user to observe moving parts and approve their movement visually. Only tests within the scope of the diagnostic software will be executed hence only faults within this scope can be detected.

2.2 Contents of Player Script

The player script contains all nuclei that are useful on a DVD player that is connected to a TV set and help to determine which module of the DVD player is faulty, as well as to read out the contents of the error logs.

2.3 Structure of Player Script

The player script consists of a set of nuclei testing the three hardware modules in the DVD player: the Display PWB, the Digital PWB, and the Basic Engine.

Nuclei run by the player test need some user interaction. In the next paragraph this interaction is described. The player test is done in two phases:

1. **Interactive tests:** this part of the player test depends strongly on user interaction and input to determine nucleus results and to progress through the full test. Reading the error log and error bits information can be useful to determine any errors that occurred recently during normal operation of the DVD player.
2. **The loop test:** this part of the player test will loop through the list of nuclei indefinitely, until the player is reset. The list of nuclei is as follows:
- PapChksFlash

PapI2cNvram

CompSdramWrR

PapS2bEcho

PapI2cDisp

ChangerI2cExp

PapI2cLedIOExp

FUORERSdramWrRLow

PapNvramWrR

At the beginning of the tests, the DSW version number will be indicated on the local display of the DVD.

The display will look like the following:

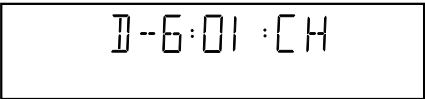


Figure 3

Pressing the PLAY/PAUSE key will proceed to the slave S /W version display, which is shown on the local display of the DVD player.

The display will look like the following:

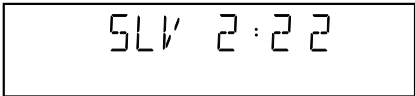


Figure 4

Press the PLAY/PAUSE key to proceed to the next test.

5.2.4 Survey

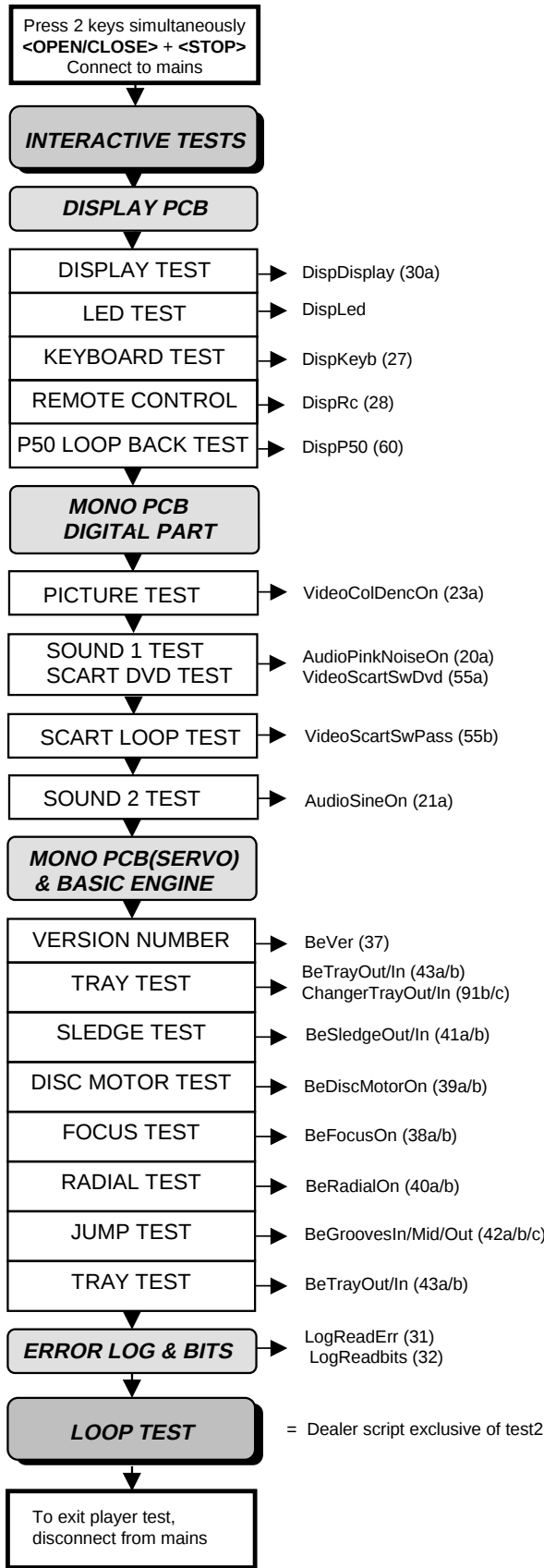


Figure 5

3 Display PCB

3.1 Display Test

The display test is performed by nucleus DispDis play. By putting as erie of test patterns on the local display, the local display is tested. To step through all different patterns, the user must either press OPEN/CLOSE (pattern is ok) or STOP (pattern was incorrect) to proceed to the next pattern. The display of patterns is continued in a cyclic manner, shown in Fig. 6, until the user presses PLAY/PAUSE. If the user presses PLAY/PAUSE before all display patterns are tested, the DispDisplay nucleus will return FALSE (display test unsuccessful).

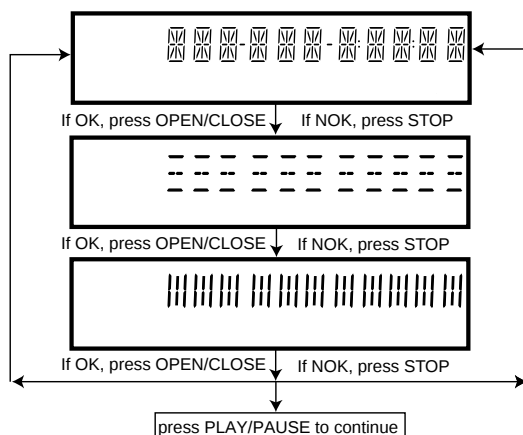


Figure 6

3.2 LED Test

The LED(s) on the DVD player is (are) tested by nucleus DispLed.

There are three test patterns for the LED test which can be stepped through using the OPEN/CLOSE key.

The user must check if the LED(s) is (are) lighted; if it is, press OPEN/CLOSE, if the LED did not light up, the user must press STOP key. By pressing PLAY/PAUSE before OPEN/CLOSE or STOP, the DispLed nucleus will return TRUE (LED test successful).

3.3 Keyboard Test

The keyboard of the DVD player is tested by nucleus DispKeyb. The user is expected to press all keys on the local keyboard once. The code of the key pressed is shown on the local display (1 hexadecimal digit) immediately followed by a (hexadecimal) number indicating how many times that key has been pressed. Example of the local display during this test:

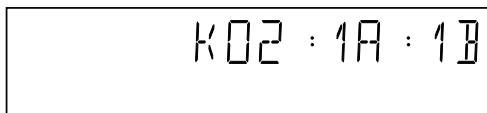


Figure 7

The key-codes displayed on the local display will scroll from right to left when the display gets full, the text "K" will remain on display.

KEY ID	KEY
0	PLAY / PAUSE ▷/◻
1	STOP ◻
2	OPEN / CLOSE △
3	STANDBY / ON
4	NEXT ▷▷/◻◻
5	PREVIOUS ◻◻/◻◻
H	PLAYXCHANGE
I	DISC 1
J	DISC 2
K	DISC 3
L	DISC 4
M	DISC 5

Figure 8

If any keys are detected more than once (due to hardware error), the key-code is displayed twice (or more), with the second digit increased by 1.

If the user does not press all keys minimally once (in any order), the DispKeys nucleus will return FALSE and cause an error in the overall result of the player script.

The user can leave the keyboard test by pressing the PLAY/PAUSE key on the local keyboard of the DVD player for at least one full second.

The result of the keyboard test is shown on local display as follows:

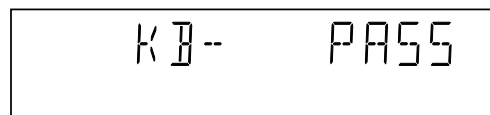


Figure 9

Or

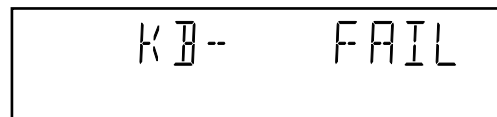


Figure 10

Pressing PLAY/PAUSE on the local keyboard again will proceed to the next text.

3.4 Remote Control Test

The remote control of the DVD player is tested by nucleus DispRc. The user must press any key on the remote control just once. The codes of the key pressed will be shown on the local display in hexadecimal format. Example:

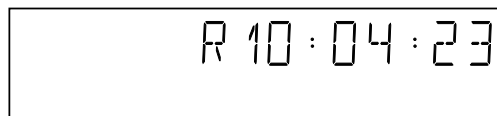


Figure 11

In this example 23 is the hexadecimal code of the pressed RC key. The user can leave the remote-control test by pressing PLAY/PAUSE on the local keyboard of the DVD player. The remote control test is successful if a code was received before the user pressed the PLAY/PAUSE key.

Pressing the PLAY/PAUSE key, before pressing a key on the remote control, gives an error in the remote control test (note that the remote control test will also fail if a key on the remote control was pressed but no code was received). The remote control test does not check upon the contents of the received code, that is it will not be checked if the received code matches the key pressed. If desired, the user can manually check this code by using a code-table for the remote control key-codes.

RC Key id	Hexadecimal code
STANDBY	0C
DISC SKIP	7F
DIMMER	13
T/C	C8
SOUND MODE	50
1	01
2	02
3	03
4	04
5	05
6	06
7	07
8	08
9	09
0	00
RETURN/RESUME	83
CD TEXT/BIT RATE	48
MENU	54
ON SCREEN	82
CURSOR UP	58
CURSOR DOWN	59
CURSOR LEFT	5A
CURSOR RIGHT	5B
OK	5C
PREVIOUS ⏮	21
NEXT ⏭	20
STOP □	31
PLAY ▷	2C
PAUSE ⏸	30
SUBTITLE	4B
ANGLE	85
ZOOM	F7
AUDIO	4E
REPEAT	1D
REPEAT A-B	3B
SHUFFLE	1C
SCAN	2A

Figure 12

After pressing PLAY/PAUSE, the result of the remote control test is displayed on the local display of the DVD player as follows:



Figure 13

Or



Figure 14

Pressing PLAY/PAUSE on the local keyboard again will proceed to the next test.

3.5 P50 Loop-Back Test

For the P50 loop-back test, the user must first press a key to decide if the test is to be performed. The display will show the following message:

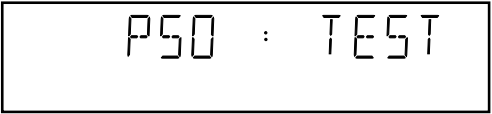


Figure 15

If the user presses STOP, the P50 test will be skipped. If the user presses OPEN/CLOSE, the P50 test is performed and the result is displayed as follows:

Test successful:

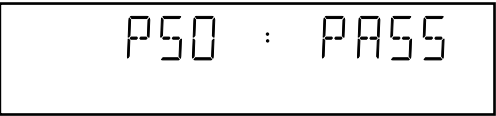


Figure 16

Test fails:

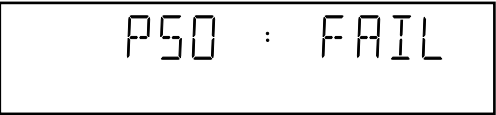


Figure 17

Press the PLAY/PAUSE key to continue to the next text

4 Mono PCB Digital Part

4.1 Picture Test

The picture test is performed by putting a predefined picture (color bar PAL) on the display (nucleus VideoColDencOn), and asking the user for confirmation.

The display will show the following message:

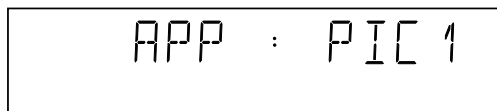


Figure 18

By pressing OPEN/CLOSE the user confirms the test, pressing STOP will indicate the picture was invisible or incorrect. Pressing PLAY/PAUSE will proceed to the next test. If the user presses PLAY/PAUSE without pressing OPEN/CLOSE or STOP first, the result of this test will be TRUE (picture ok).

Note: The color bar must be simultaneously available on the CVBS, YC, and RGB (or YUV) outputs available. On the SCART only the CVBS and RGB signals will be available.

4.2 Sound 1 & SCART DVD Test

The first sound test is performed by starting a pink noise sound that needs confirmation from the user (nucleus AudioPinkNoiseOn).

The display will show the following message:

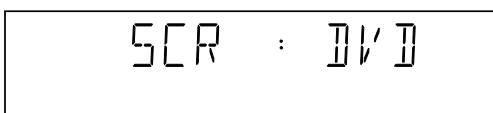


Figure 19

On the TV screen a color bar (generated by nucleus VideoColDencOn) is visible and the internally generated pinknoise is audible.

By pressing the PLAY/PAUSE key, the user confirms the test. Pressing the STOP key will indicate the sound was inaudible or incorrect.

Note: Only for double scart models, SCART loop-through will be simultaneously active during this test. SCART loop-through will be measured with the aid of an external video source. By pressing the PLAY/PAUSE key, the video will be switched over to the external source. This must now become visible on the TV screen (using the SCART).

The local display will show the following message:

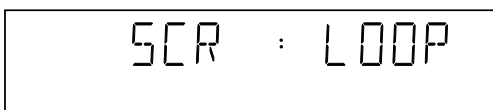


Figure 20

The internally generated color bar is still available on the CVBS and Y/C outputs. And the pinknoise-signal is still available on the cinch audio outputs. By pressing the OPEN/CLOSE button, the internally generated color bar becomes visible again.

The test can be left by pressing the PLAY/PAUSE key for more than one second.

4.3 Sound 2 Test

The second sound test is performed by producing a sine sound (nucleus AudioSineOn). The signal can be stopped by pressing the STOP key.

The display will show the following message:

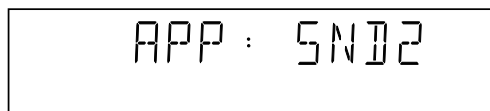


Figure 21

After the audio signal has been stopped by pressing OPEN/CLOSE, the user confirms the test. Pressing STOP will indicate that something went wrong. Pressing PLAY/PAUSE will proceed to the next. If the user presses PLAY/PAUSE without pressing OPEN/CLOSE or STOP first, the result of this test will be TRUE (sound ok).

5 Basic Engine

5.1 Version Number

In the basic engine tests, the version number of the Basic Engine will be shown first, as in the following example:

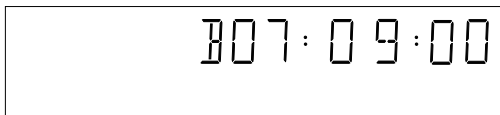


Figure 22

By pressing the PLAY/PAUSE key, the Basic Engine tests are started.

5.2 Tray Test

First, the tray is tested. The purpose of this test is also to give the user the opportunity to put a disc in the tray of the DVD player. Some tests on the Basic Engine require that a disc (e.g. DVD MPTD test disc) is present in the player. At the end of the Basic Engine tests this tray test will be repeated solely to enable the user to remove the disc in the tray.

The local display will look as follows:

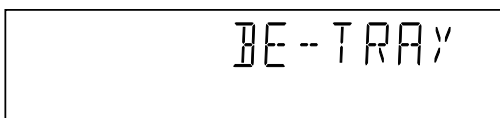


Figure 23

By pressing OPEN/CLOSE the user can toggle the position of the tray. Note that this test will not contribute to the test result of the Basic Engine. Pressing PLAY/PAUSE will proceed to the next test. At this point, the tray will be closed automatically by the software if it was open.

5.3 Sledge Test (Visual Test)

The second Basic Engine test tests the sledge. The user can move the sledge as many times as desired by using OPEN/CLOSE (nucleus BeSledgeOut) and STOP (nucleus BeSledgeIn). Pressing PLAY/PAUSE on the local keyboard proceeds to the next test. Note that this test will not contribute to the test result of the Basic Engine.

The local display will look as follows during the sledge test:

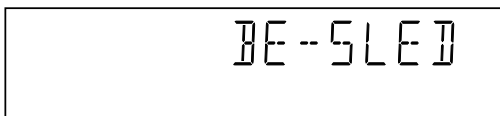


Figure 24

5.4 Disc Motor Test (Visual Test)

The third Basic Engine test tests the disc motor (nucleus BeDiscMotorOn).

The local display looks as follows:

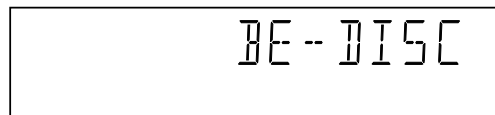


Figure 25

By pressing OPEN/CLOSE the user confirms that the disc motor is running. Pressing STOP indicates the disc motor does not work. Pressing PLAY/PAUSE proceeds to the next test, after a reset of the disc motor (nucleus BeDiscMotorOff). If the user presses PLAY/PAUSE before pressing OPEN/CLOSE or STOP, the result of this test will be TRUE (disc motor is running).

5.5 Focus Test (Visual Test)

The fourth Basic Engine test tests the focussing. First focussing is turned on by calling nucleus BeFocusOn. The display will look as follows:

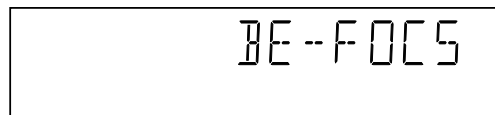


Figure 26

By pressing OPEN/CLOSE the user confirms that the focussing was successful. Pressing STOP indicates a focussing failure. Pressing PLAY/PAUSE proceeds to the next test after a reset of the focussing (nucleus BeFocusOff). If PLAY/PAUSE is pressed before OPEN/CLOSE or STOP, the result of this test will be TRUE (focus successful).

5.6 Radial Test (Visual & Listening Test)

The fifth Basic Engine test tests the radial functionality (nucleus BeRadialOn).

The local display looks as follows:

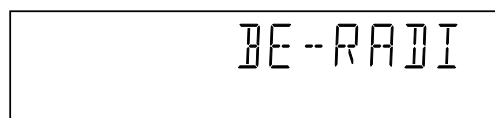


Figure 27

By pressing OPEN/CLOSE the user confirms that the radial function works. Pressing STOP indicates the function does not work. Pressing PLAY/PAUSE proceeds to the next test, after a reset of the radial (nucleus BeRadialOff). If the user presses PLAY/PAUSE before pressing OPEN/CLOSE or STOP, the result of this test will be TRUE (radial successful).

5.7 Jump Test (Listening Test)

The sixth and last Basic Engine test tests the jumping by calling nuclei BeGroovesIn, BeGroovesMid and BeGroovesOut. During this test, the local display looks as follows:

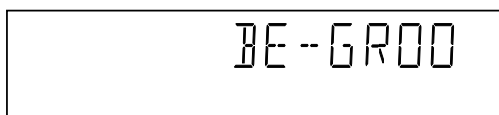


Figure 28

The user can switch between the three different types of groove settings by pressing OPEN/CLOSE (forward to next nucleus in the list In-Mid-Out), or STOP (backward in the list In-Mid-Out). This is done in a cyclic manner; note that this test will not contribute to the test result of the Basic Engine. Pressing PLAY/PAUSE proceeds to the next test, after the disc motor has been shut off with a call to nucleus BeDiscMotorOff.

5.8 Tray Test

As a last action for the Basic Engine tests, the tray test is repeated. The local display will look as follows:

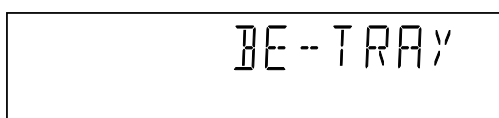


Figure 29

This test is meant to give the user the opportunity to remove the disc in the tray. The tray position can be toggled using the OPEN/CLOSE key. The tray will be closed (by the software, if it is open) before proceeding to the next test when the user presses the PLAY/PAUSE key.

5.9 Error Log (See Table on Next Page)

Reading the error log and error bits information can be useful to determine any errors that occurred recently during normal operation of the DVD player. Reading the error log is done by nucleus LogReadErr.

The display during the errorlog readout looks as follows :

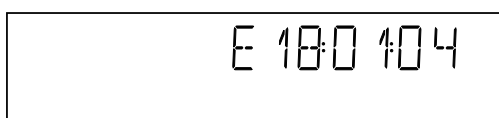


Figure 30

Note: Previous versions of the diagnostic software showed a 8-digit error code.

Due to limitations in the number of digits that can be displayed by some front panel displays, the most significant digits will not be shown. This can be done since all the error codes used by this player has set these 2 digits to i00i

By pressing OPEN/CLOSE or STOP the user can move forward or backward (respectively) through the logged error codes. If "0000" is displayed at all positions, the error log is empty. Display of the logged errors is done in a cyclic manner.

By pressing PLAY/PAUSE on the local keyboard, the user can proceed to the next test.

5.10 Error Bits

Reading the error bits is done by nucleus LogReadBits. The display during the errorbits readout looks as follows:

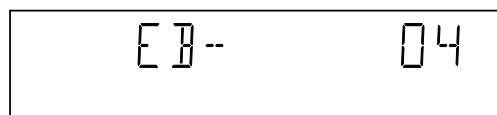


Figure 31

Only the identification number (decimal) representing set errorbits will be shown. By pressing OPEN/CLOSE or STOP, the user can move forward or backward (respectively) through the logged error codes. If the display only shows "EB-0", no error bits were set. By pressing PLAY/PAUSE the user can continue to the next test.

6 Loop Test (See Table Below)

At the start of the loop test, the local display of the DVD player will show the interactive player test result readout in the following display:

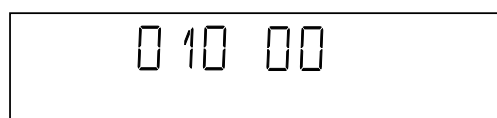


Figure 32

The left side of the display contains a 3-digit code, which can have a value between 000 and 111. These values indicate the faulty modules and are to be interpreted as follows:

Displayed Value	Indication for each module		
	Basic Engine	Mono PCB	Display PCB
000	ok	ok	ok
001	ok	ok	faulty
010	ok	faulty	ok
011	ok	faulty	faulty
100	faulty	ok	ok
101	faulty	ok	faulty
110	faulty	faulty	ok
111	faulty	faulty	faulty

Figure 33

The loop test will perform the same nuclei as the dealer test, but it will loop through the list of nuclei indefinitely. The display of the DVD player will display not only the three digits indicating correct/faulty modules and the last found error code (as mentioned, faults are detected as far as they can be within the scope of the diagnostic software), but also a loop counter indicating how many times the loop has been gone through. If an error was detected, the display will remain as in figure 34 until the user presses the PLAY/PAUSE key and then it will continue to the next loop.

Example:

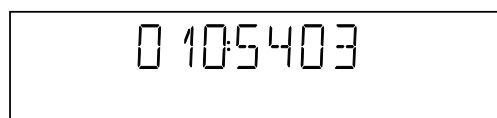


Figure 34

The 2-digit number (23) on the right of figure 32 indicates the number of times the loop test has been performed.

After one loop cycle: Display the 3-digit module bits together with the last error code which occurred in the loop test. The 4 digits at the right side of the display (fig. 34) show the last error that was found during the loop test. The leftmost two digits (54) of this code indicates which nucleus resulted in a fault. The rightmost two digits (03) refer to the faultcode within that nucleus.

6.1 Errorlog

Explanation:

The application errors will be logged in the NVRAM. The maximum number of error bytes that will be visible is 16. The first word (4 digits) of the byte is the component identification, the last word is the error code.

The diagnostics software will present a combination of this component identification plus an error code on the local display (and on the attached terminal). The last reported error is shown as < 00000000, the oldest visible error as 00000000 > and the errors in between as < 00000000 >.

The devices that may report errors are the serial controller (UART), the basic engine (BE), the slave processor (SLPH), the SACD Stream Manager (SSM) and the SACD Media Access (SMA). The identification of these components is as follows:

Component name	Component identification
Serial controller (UART)	000A
Engine (BE)	0016
Slave Processor (SLPH)	001A
SACD Stream Manager (SSM)	001C
SACD Media Access (SMA)	002E
Diagnostic software (DS)	Dxxx

The tables in the next chapters list the error code and corresponding problem. The Explanation column has a more detailed description and the most likely reason for the error.

Some Examples:

002E0000 (SMA reported a timeout error)

0016010A (Engine could not fully close or open the tray)

D0010001 (Flash checksum failed).

UART Error Codes

Error Number	Error name	Explanation
0000	BUF_OVE RFLOW	To many characters were offered in too little time. Reason: system was too busy doing other jobs.
0001	COMMUNI CATION	Usually a protocol error. Reason: bad connection between engine and processor.
0002	TIME OUT	

BE Errors

Error Number	Error name	Explanation
0101	S2B_ILL_CO MMAND	Parameter(s) not valid for this command. Reason: some communication problem between UART and engine.
0102	S2B_ILL_PAR AM	Command not allowed in this state or unknown. Reason: see S2B_ILL_COMMAND error

Error Number	Error name	Explanation
0103	S2B_SLEDGE	Sledge could not be moved to home position.
0104	S2B_FOCUS	Focus failure
0105	S2B_MOTOR	Motor could not reach speed within timeout
0106	S2B_RADIAL	Servo didn't get on track after several retries.
0107	S2B_PLL_LO CK	PLL could not lock in Accessing or Tracking state
0108	SBC_HEADE R_TO	Header timeout
0109	S2B_SBC_NO T_FOUND	Requested subcode item could not be found.
010A	S2B_TRAY	Tray could not be opened or closed completely.
010B	S2B_TOC_RE AD	TOC could not be read within timeout period.
010C	S2B_JUMP	Requested seek could not be performed.
010D	S2B_NON_EX IST_SES	Attempt to access a non-existing session.
010E	S2B_NON_EX IST_BCA	Caller tries to access a non-existing BCA area
010F	Speed setting	A wrong or inappropriate speed value has been set
0116	NO_DISC	No disc selected
011A	TRAY_INIT	After reset, initialized tray
011B	NO TOC INFO	No TOC information in lead-in area or erase TOC found
01F0	S2B_OVERR UN	Too many bytes received over S2B Reason: see S2B_ILL_COMMAND error
01F1	S2B_COMM_ TO	Not enough bytes are received over S2B Reason: see S2B_ILL_COMMAND error
01F2	S2B_PARITY	Byte received with parity error. Reason: see S2B_ILL_COMMAND error
01F3	S2B_ILL_PHA SE	CMD IDC is not valid, transmission out of sync. Reason: see S2B_ILL_COMMAND error
01F4	S2B_ILL_NR_ OF_BYTES	Byte count has an illegal value. Reason: see S2B_ILL_COMMAND error

SLPH Error Codes

Error Number	Error name	Explanation
0000	COMMUNICA TION	Error in I2C communication. Reason: bad connection between slave processor and main processor.

SSM Error Codes

Error Code	Error name	Explanation
0006	SP_SYNCER ROR	System cannot get synchronized with sectors coming from disc. Reason: Usually a damaged disc or the player was dropped/pushed during operation. If not, the engine is malfunctioning.
0007	SP_EDCERR OR	Data coming from disc is damaged. Reason: see SP_SYNCERROR

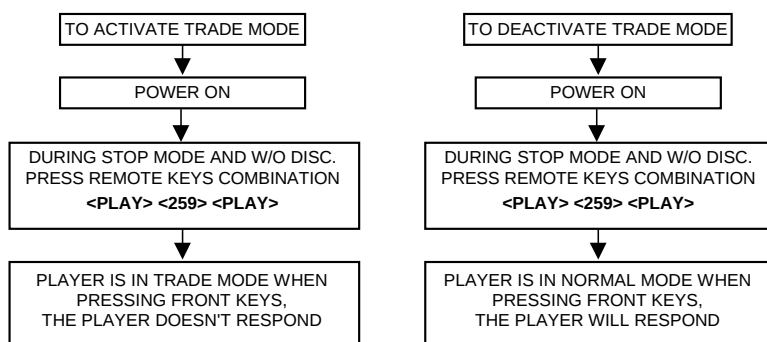
Error Code	Error name	Explanation
0008	SP_CONTINUITYERROR	Sequence of sectors coming from disc is incorrect. Reason: see SP_SYNCERROR
0009	DMX_CONTINUITYERROR	Sequence of sectors is incorrect. Reason: problem with buffer RAM
000A	LLD_ERROR	An illegal audio format was offered to the decoder. Reason: unknown audio type on disc or problem with buffer RAM
000B	BCU_ERROR	Internal problem in Eurore chip

SMA Error Codes

Error Number	Error name	Explanation
0000	SMA_TIMEOUTERROR	Data coming from disc not in time. Reason: damaged disc or engine problem.

6.2 Trade Mode

When the player is in Trade Mode, the player cannot be controlled by means of the front key buttons, but only by means of the remote control.

**Figure 35**

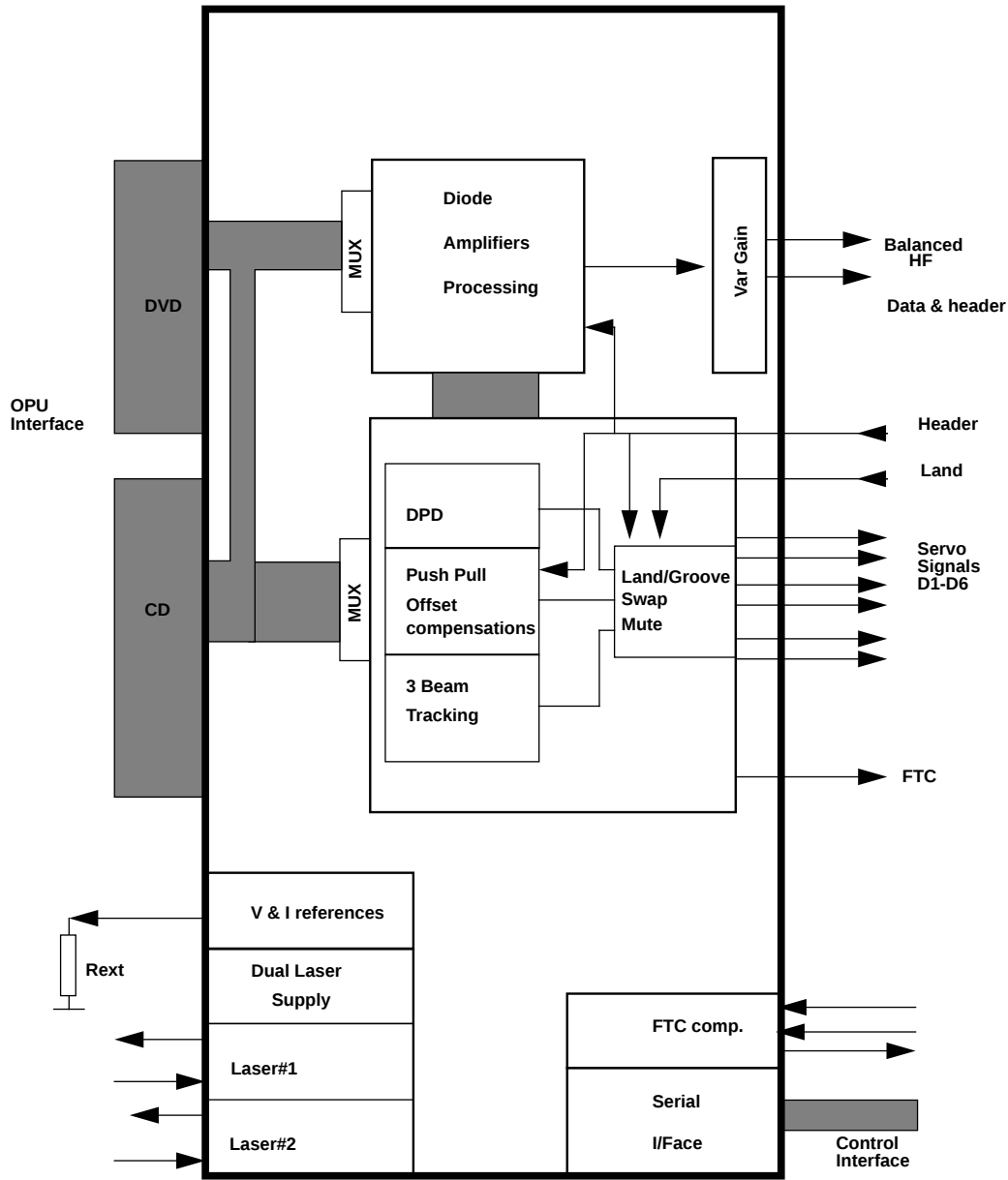
Note: To activate and deactivate the Trade Mode with the disc in the player, the procedure is similar to above, except that the remote control keys combination is pressed at the instant when the local display is flashing "READING"

■ IC DATA

DVDALAS2plus Advanced Analog DVD
Signal Processor and Laser Supply

TZA1033

DEVICE BLOCK DIAGRAM

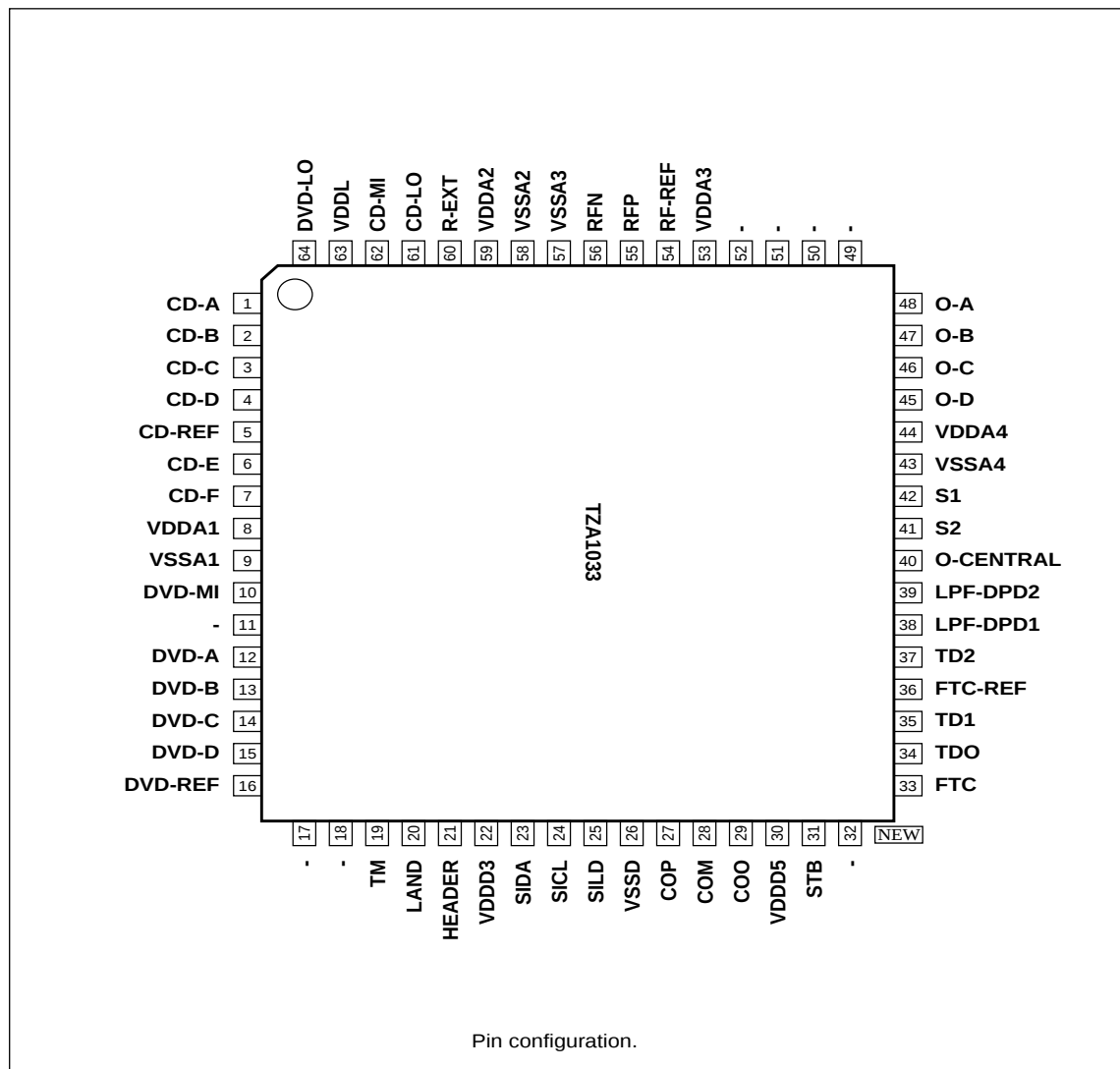


TZA1033 Device Block Diagram (item 7100)

DVDALAS2plus Advanced Analog DVD Signal Processor and Laser Supply

TZA1033

PIN COFIGURATION

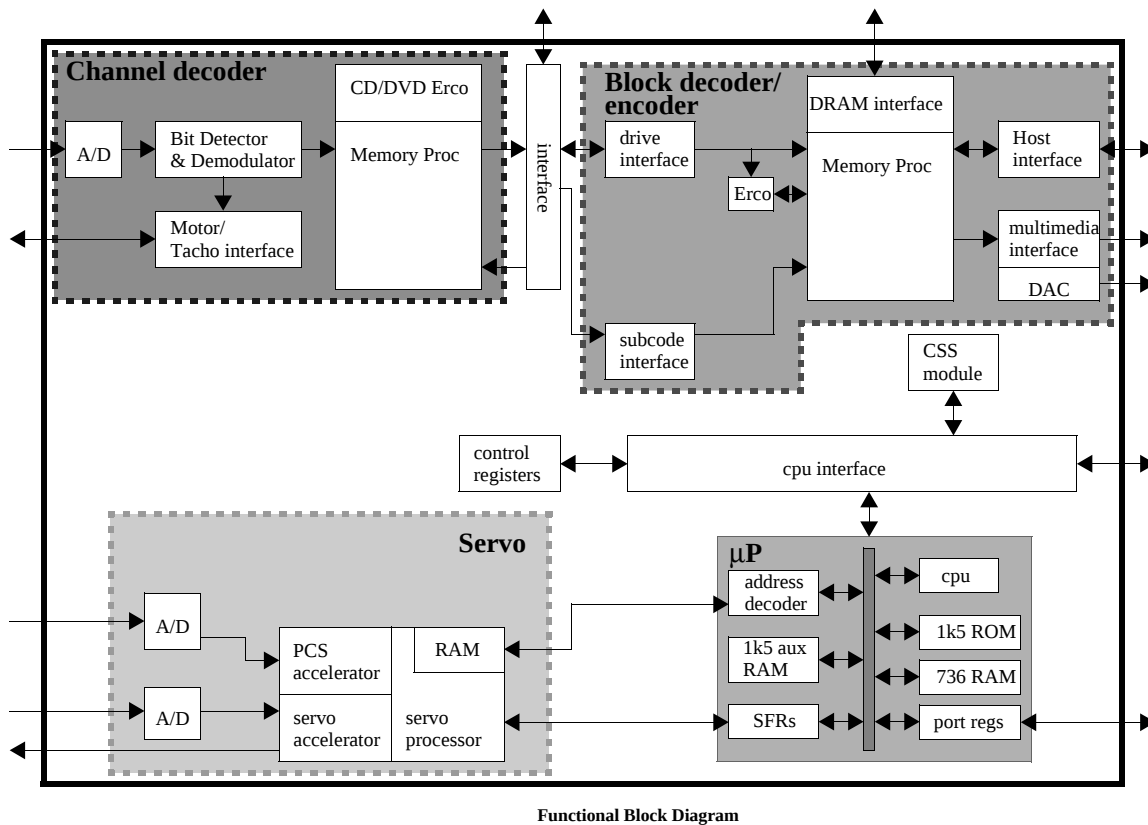


TZA1033 Pins (item 7100)

Front-end Processor

SAA7812HL

Diagram M2

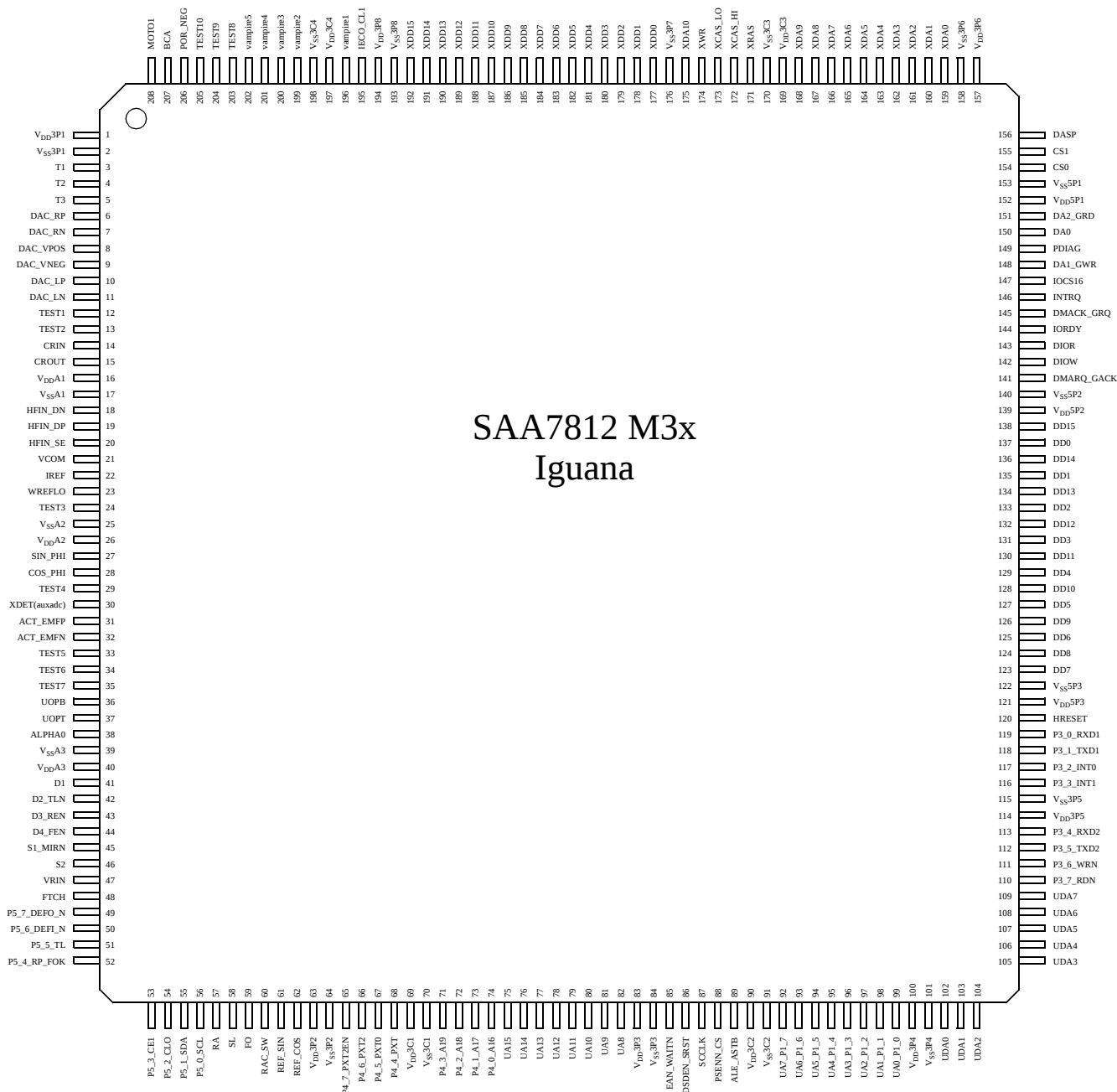


Functional Block Diagram

SAA7812 HL Block Diagram (item 7200)

Front-end Processor

SAA7812HL



SAA7812 M3x
Iguana

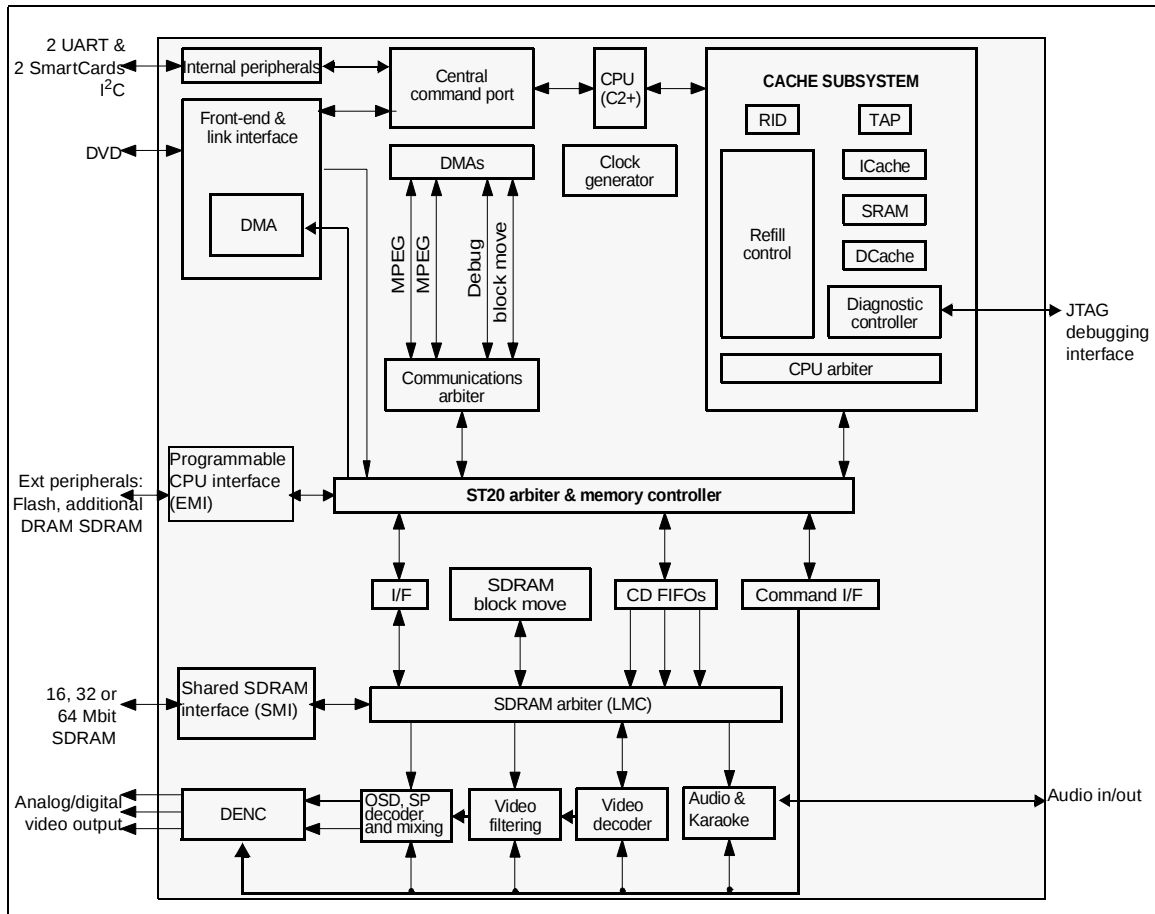
Pin Diagram
SAA7812HL Pins (item 7200)

DVD-C740
/DV-C6660

Back-end Host Processor

STi5588

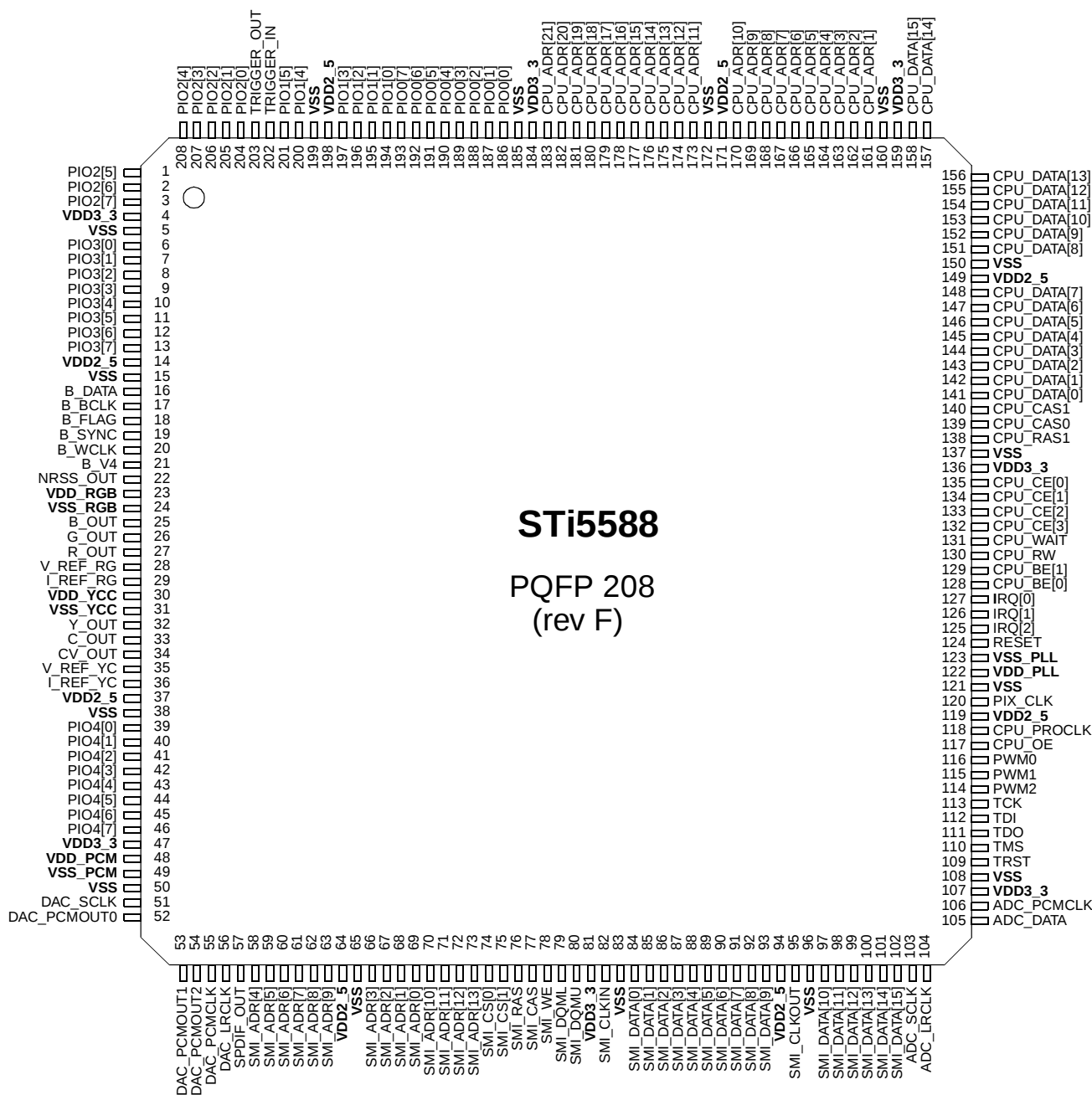
Diagram M6



STi5588 Block Diagram (item 7600)

Back-end Host Processor

STi5588

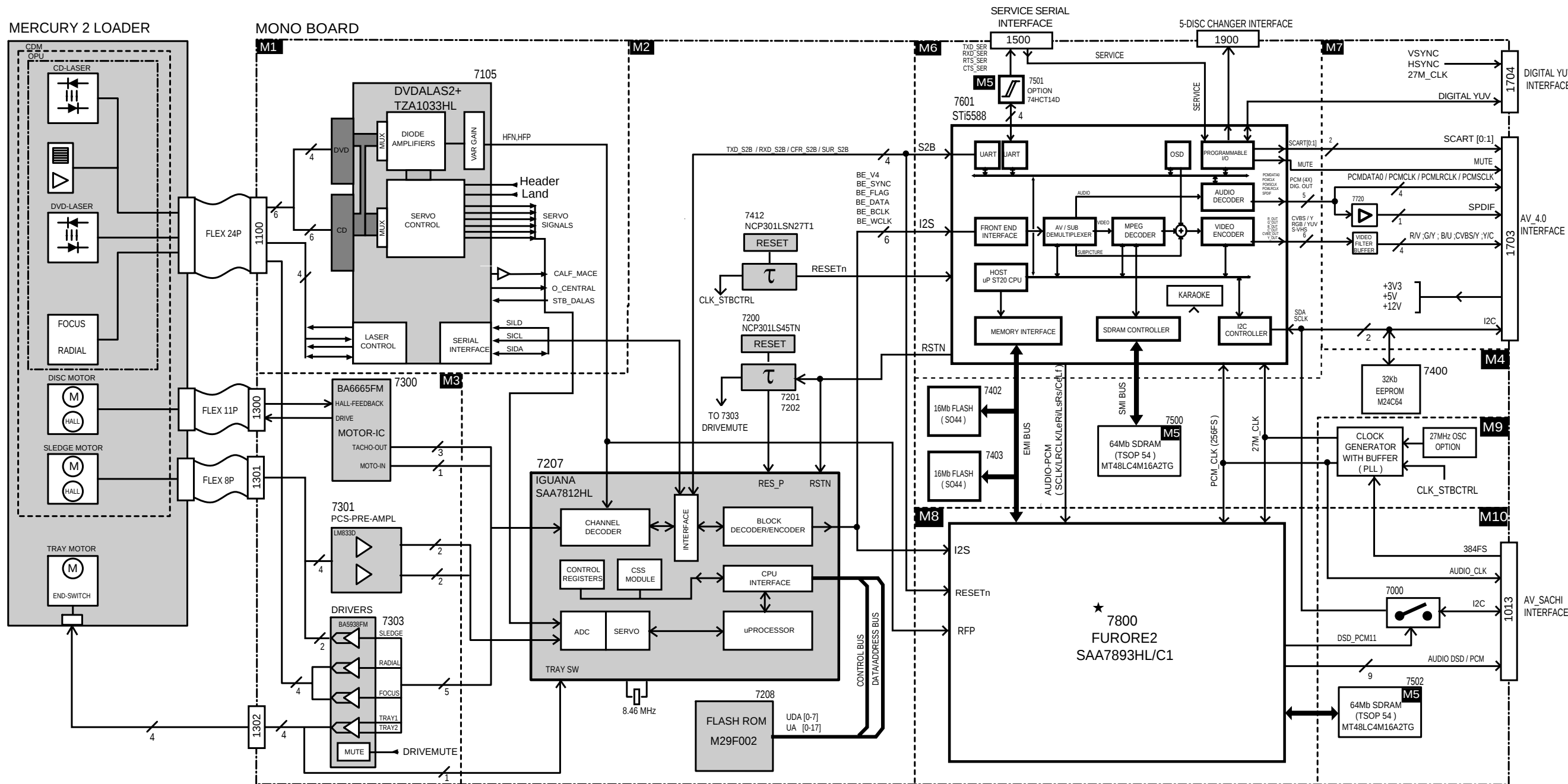


STi5588 Pins (item 7600)

MEMO

DVD-C740
/DV-C6660

BLOCK DIAGRAM

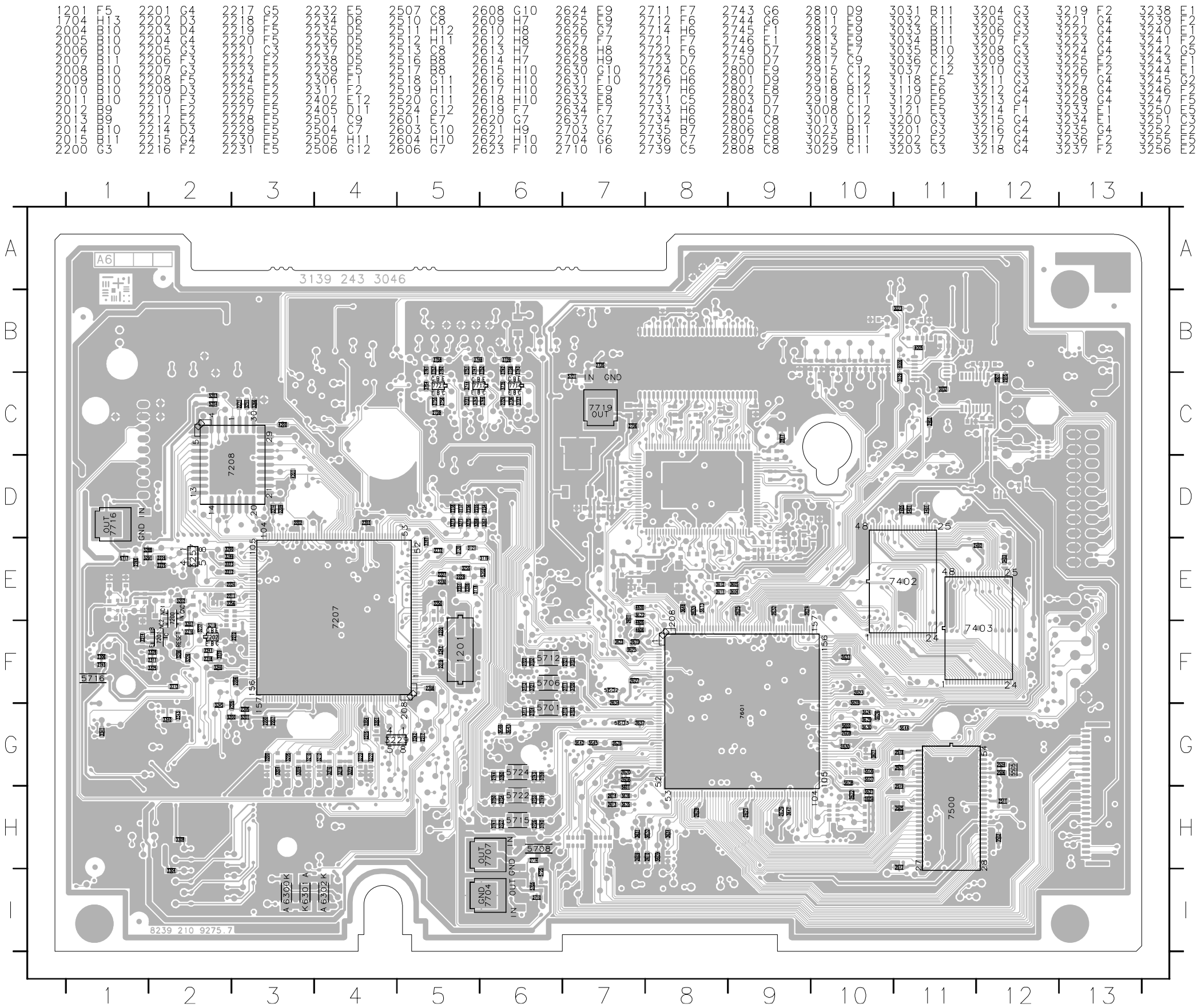


★ Not applied to these models

[illegible]

■ PRINTED CIRCUIT BOARD

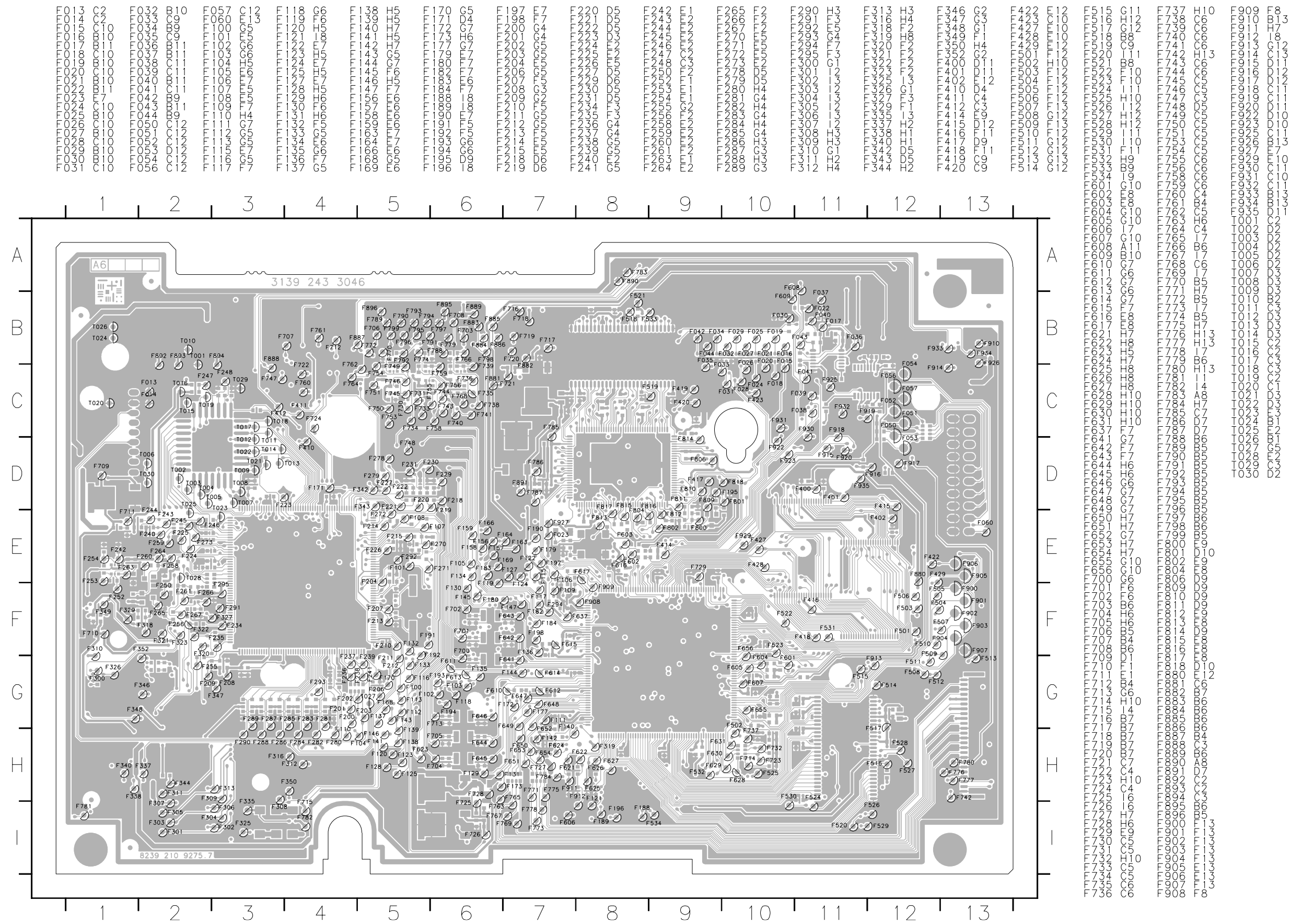
MONO Board Bottom View



7207 7208 7402 7403 7500 7501 7502 7503 7504 7505 7506 7507 7508 7509 7510 7511 7512 7513 7514 7515 7516 7517 7518 7519 7520 7521 7522 7523 7524 7525 7526 7527 7528 7529 7530 7531 7532 7533 7534 7535 7536 7537 7538 7539 7540 7541 7542 7543 7544 7545 7546 7547 7548 7549 7550 7551 7552 7553 7554 7555 7556 7557 7558 7559 7560 7561 7562 7563 7564 7565 7566 7567 7568 7569 7570 7571 7572 7573 7574 7575 7576 7577 7578 7579 7580 7581 7582 7583 7584 7585 7586 7587 7588 7589 7590 7591 7592 7593 7594 7595 7596 7597 7598 7599 7600

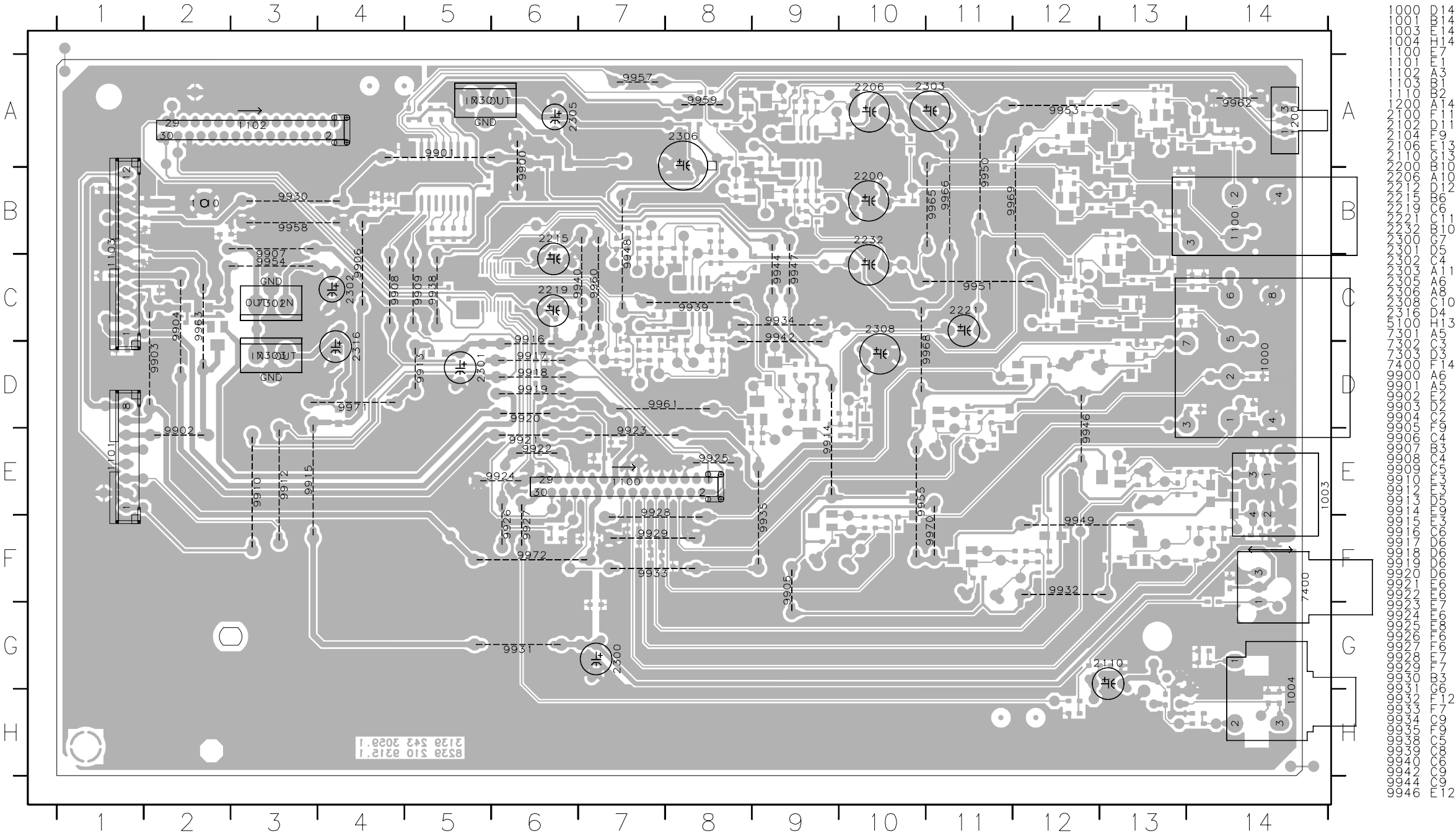
■ PRINTED CIRCUIT BOARD

MONO Board Testpoint View



■ PRINTED CIRCUIT BOARD

AV Board Top View

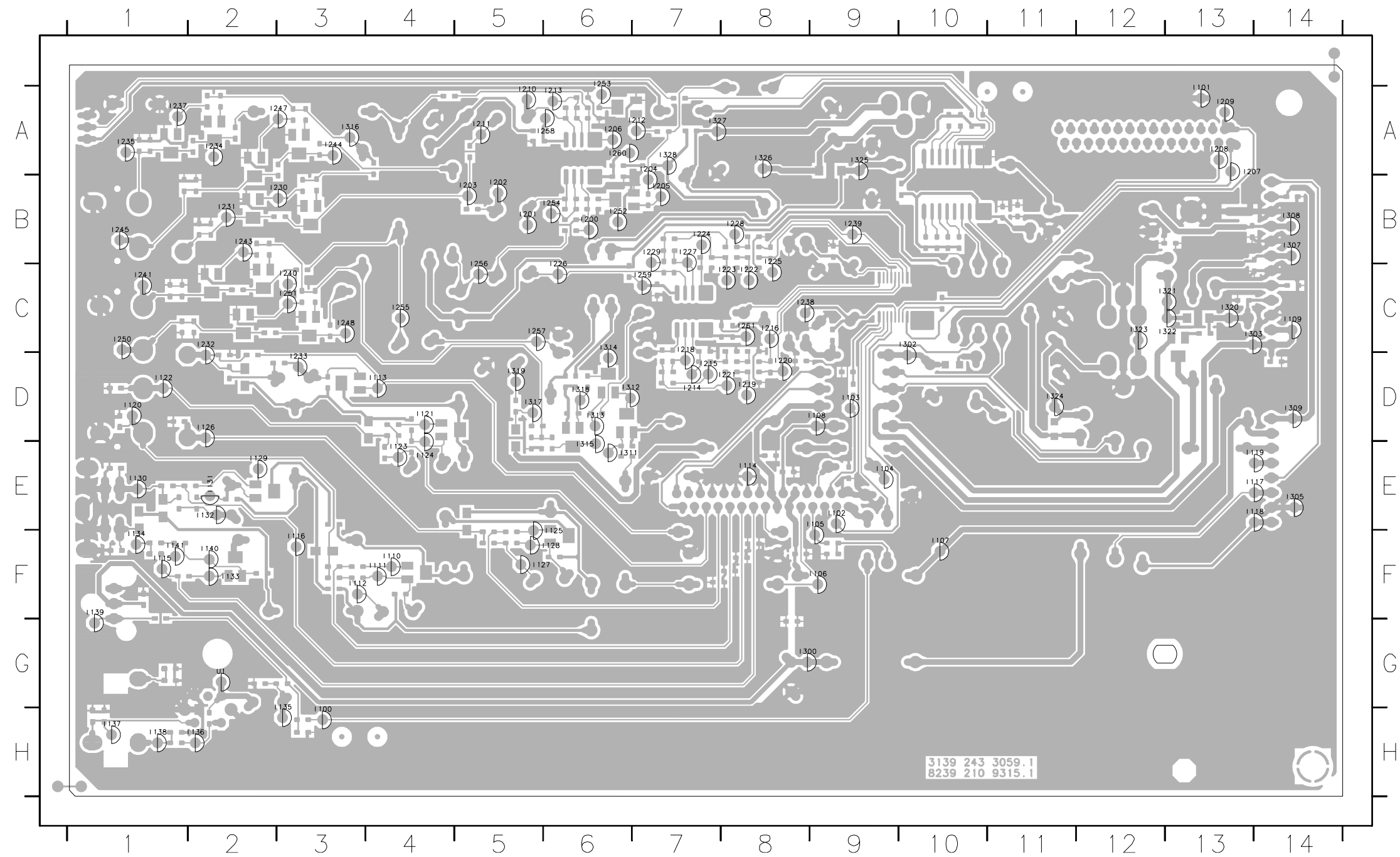


3139	243	3059.1
8239	210	9315.1

[illegible]

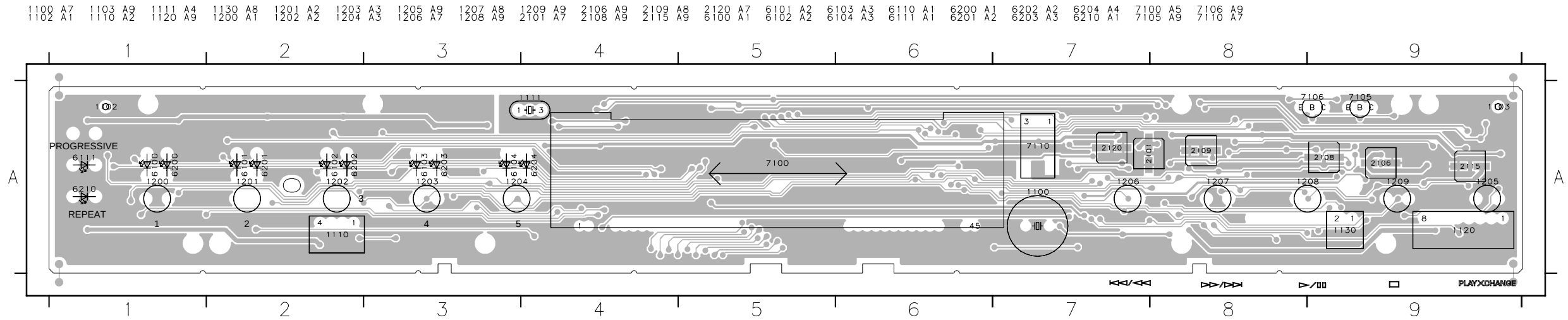
■ PRINTED CIRCUIT BOARD

AV Board Testpoint View

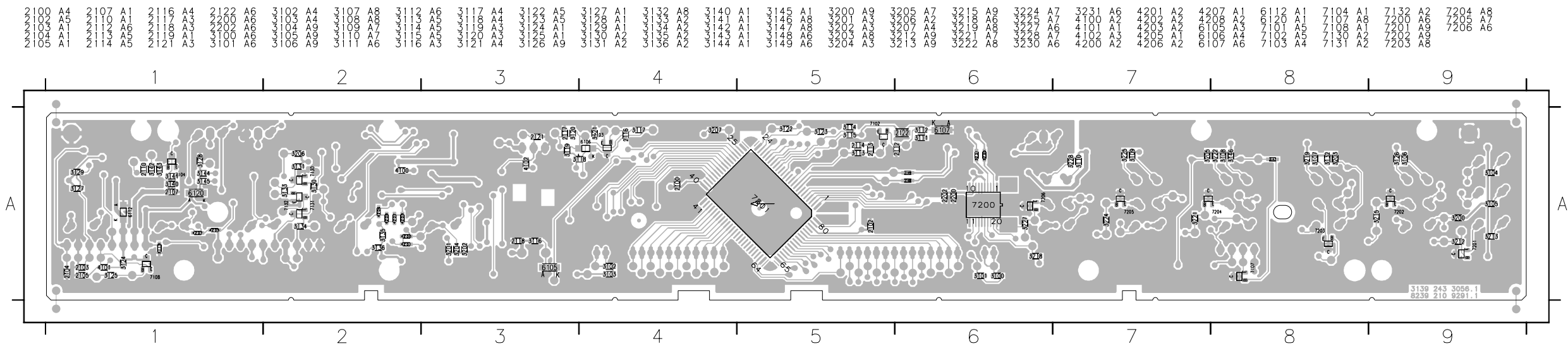
[illegible]

PRINTED CIRCUIT BOARD

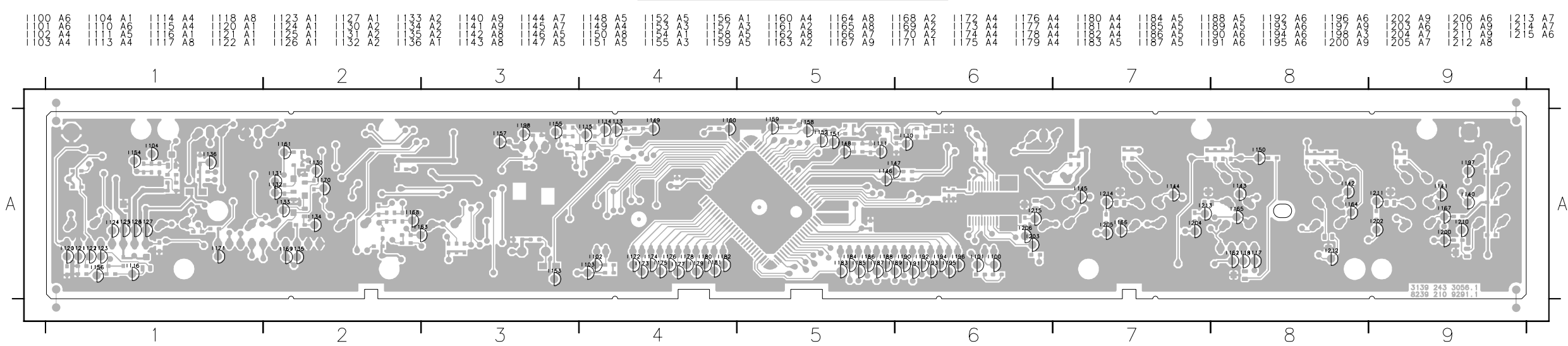
Front (1) Board Top View



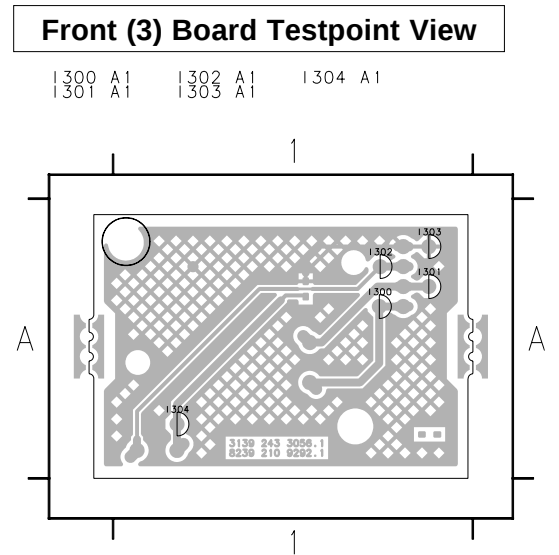
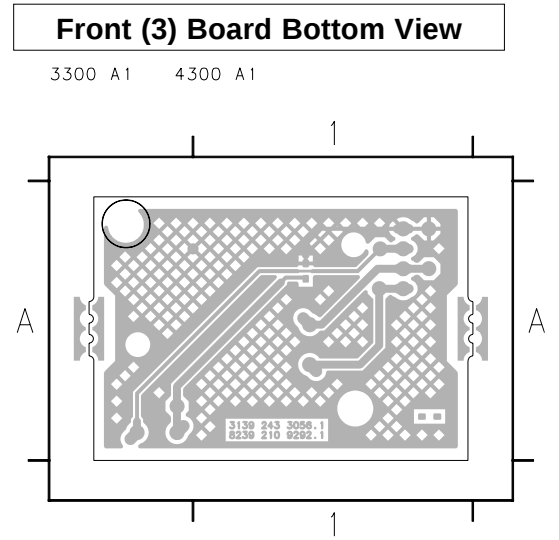
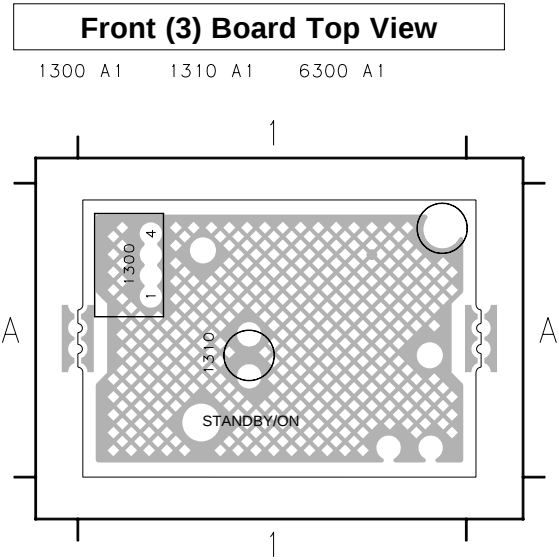
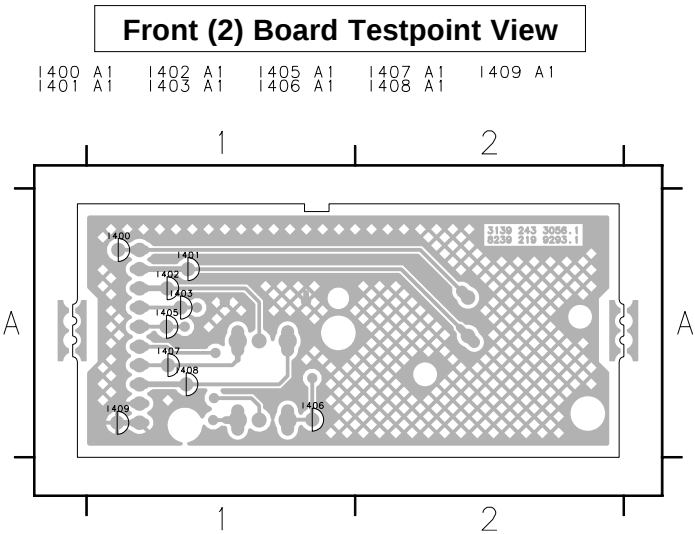
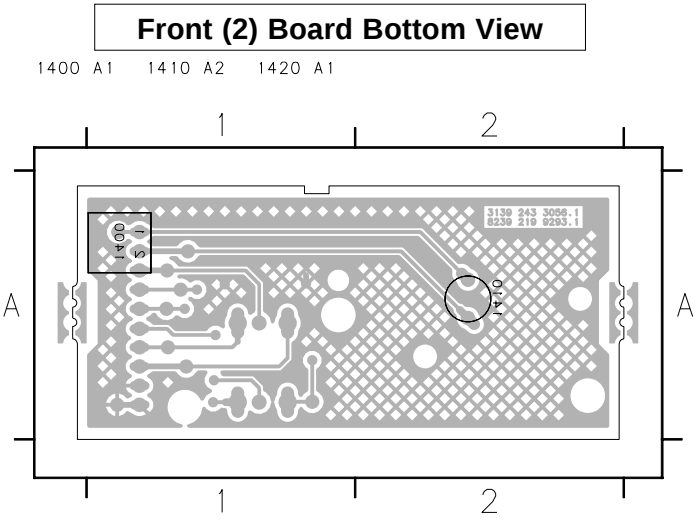
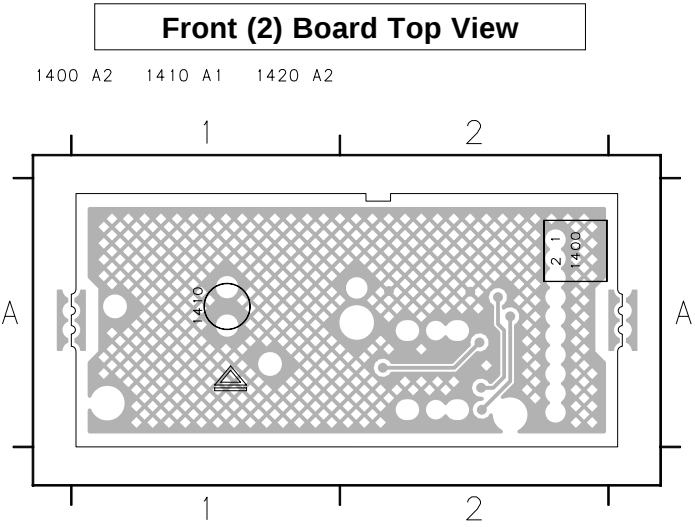
Front (1) Board Bottom View



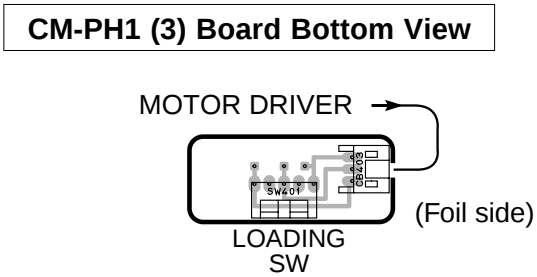
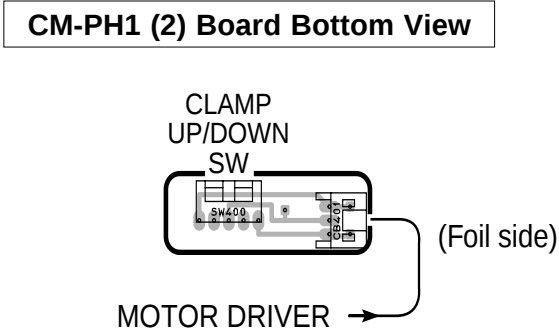
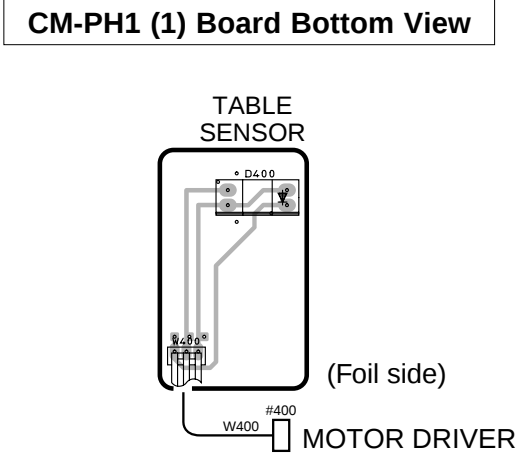
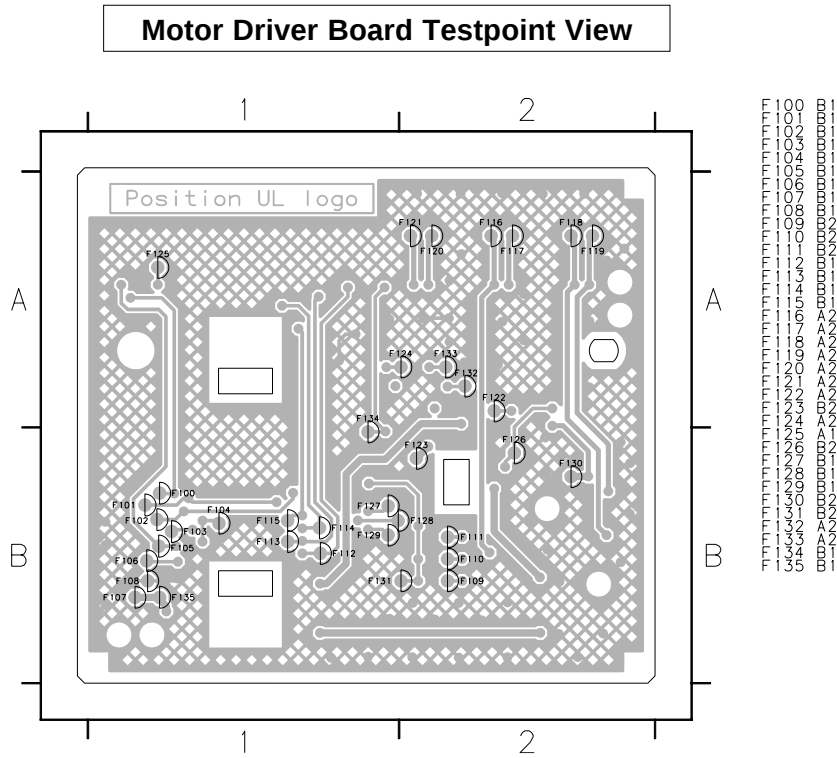
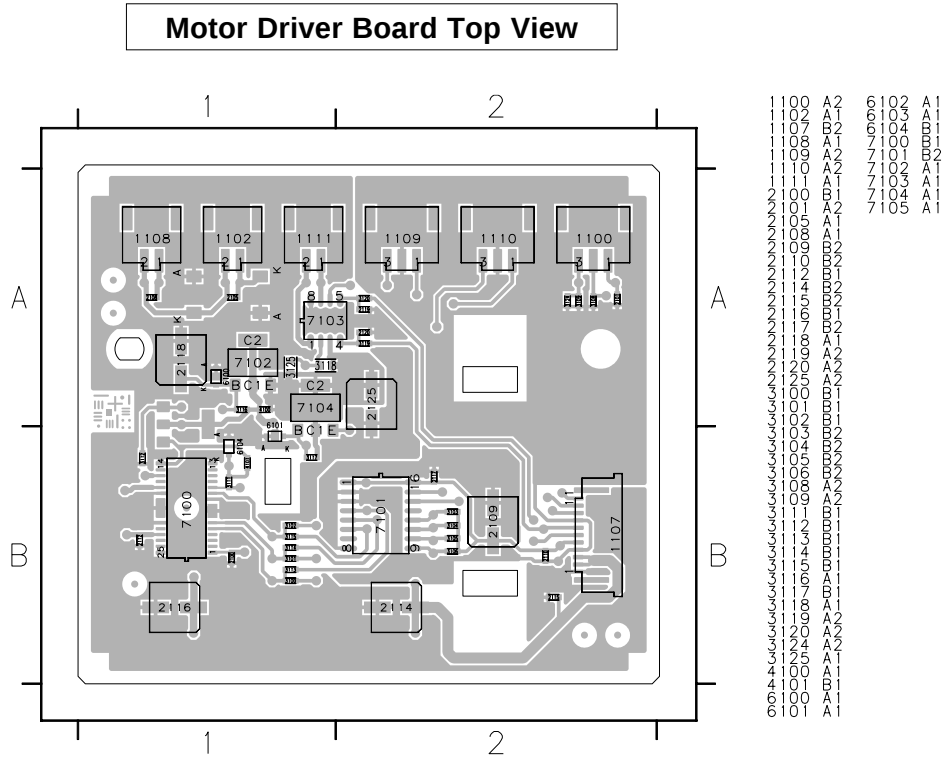
Front (1) Board Testpoint View



■ PRINTED CIRCUIT BOARD

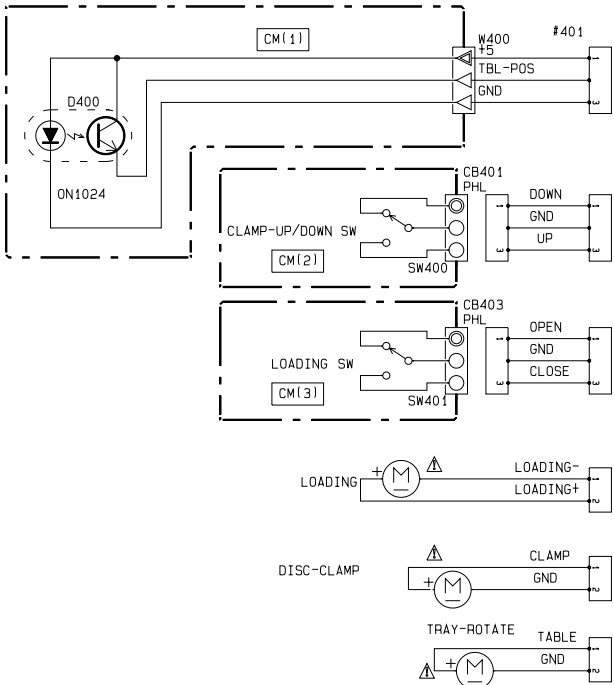


■ PRINTED CIRCUIT BOARD



DVD-C740/DV-C6660

SCHEMATIC DIAGRAM (CM-PH1)



CAPACITOR		
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	H
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
●	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
①	MICA CAPACITOR	
⊕	POLYPROPYLENE FILM CAPACITOR	
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR	

RESISTOR	
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
▣	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▤	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

NOTICE (model)
(J)..... JAPANESE
(U)..... U. S. A
(C)..... CANADIAN
(R)..... GENERAL
(A)..... AUSTRALIAN
(B)..... BRITISH
(G)..... EUROPEAN
(T)..... CHINA
(L)..... SINGAPORE

PARTS LIST

ELECTRICAL PARTS

WARNING
Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

C.A.EL.CHP	: CHIP ALUMI. ELECTROLYTIC CAP	L.DTCT	: LIGHT DETECTING MODULE
C.CE	: CERAMIC CAP	L.EMIT	: LIGHT EMITTING MODULE
C.CE.ARRAY	: CERAMIC CAP ARRAY	LED.DSPLY	: LED DISPLAY
C.CE.CHP	: CHIP CERAMIC CAP	LED.INFRD	: LED, INFRARED
C.CE.ML	: MULTILAYER CERAMIC CAP	MODUL.RF	: MODULATOR, RF
C.CE.M.CHP	: CHIP MULTILAYER CERAMIC CAP	PHOT.CPL	: PHOTO COUPLER
C.CE.SAFTY	: RECOGNIZED CERAMIC CAP	PHOT.INTR	: PHOTO INTERRUPTER
C.CE.TUBLR	: CERAMIC TUBULAR CAP	PHOT.RFLCT	: PHOTO REFLECTOR
C.CE.SMI	: SEMI CONDUCTIVE CERAMIC CAP	PIN.TEST	: PIN, TEST POINT
C.EL	: ELECTROLYTIC CAP	PLST.RIVET	: PLASTIC RIVET
C.MICA	: MICA CAP	R.ARRAY	: RESISTOR ARRAY
C.ML.FLM	: MULTILAYER FILM CAP	R.CAR	: CARBON RESISTOR
C.MP	: METALLIZED PAPER CAP	R.CAR.CHP	: CHIP RESISTOR
C.MYLAR	: MYLAR FILM CAP	R.CAR.FP	: FLAME PROOF CARBON RESISTOR
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP	R.FUS	: FUSABLE RESISTOR
C.PAPER	: PAPER CAPACITOR	R.MTL.CHP	: CHIP METAL FILM RESISTOR
C.PLS	: POLYSTYRENE FILM CAP	R.MTL.FLM	: METAL FILM RESISTOR
C.POL	: POLYESTER FILM CAP	R.MTL.OXD	: METAL OXIDE FILM RESISTOR
C.POLY	: POLYETHYLENE FILM CAP	R.MTL.PLAT	: METAL PLATE RESISTOR
C.PP	: POLYPROPYLENE FILM CAP	RSNR.CE	: CERAMIC RESONATOR
C.TNTL	: TANTALUM CAP	RSNR.CRYS	: CRYSTAL RESONATOR
C.TNTL.CHP	: CHIP TANTALUM CAP	R.TW.CEM	: TWIN CEMENT FIXED RESISTOR
C.TRIM	: TRIMMER CAP	R.WW	: WIRE WOUND RESISTOR
CN	: CONNECTOR	SCR.BND.HD	: BIND HEAD B-TITE SCREW
CN.BS.PIN	: CONNECTOR, BASE PIN	SCR.BW.HD	: BW HEAD TAPPING SCREW
CN.CANNON	: CONNECTOR, CANNON	SCR.CUP	: CUP TITE SCREW
CN.DIN	: CONNECTOR, DIN	SCR.TERM	: SCREW TERMINAL
CN.FLAT	: CONNECTOR, FLAT CABLE	SCR.TR	: SCREW, TRANSISTOR
CN.POST	: CONNECTOR, BASE POST	SUPRT.PCB	: SUPPORT, P.C.B.
COIL.MX.AM	: COIL, AM MIX	SURG.PRTCT	: SURGE PROTECTOR
COIL.AT.FM	: COIL, FM ANTENNA	SW.TACT	: TACT SWITCH
COIL.DT.FM	: COIL, FM DETECT	SW.LEAF	: LEAF SWITCH
COIL.MX.FM	: COIL, FM MIX	SW.LEVER	: LEVER SWITCH
COIL.OUTPT	: OUTPUT COIL	SW.MICRO	: MICRO SWITCH
DIOD.ARRAY	: DIODE ARRAY	SW.PUSH	: PUSH SWITCH
DIODE.BRG	: DIODE BRIDGE	SW.RT.ENC	: ROTARY ENCODER
DIODE.CHP	: CHIP DIODE	SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
DIODE.SHOT	: SCHOTTKY BARRIER DIODE	SW.RT	: ROTARY SWITCH
DIODE.VAR	: VARACTOR DIODE	SW.SLIDE	: SLIDE SWITCH
DIOD.Z.CHP	: CHIP ZENER DIODE	TERM.SP	: SPEAKER TERMINAL
DIODE.ZENR	: ZENER DIODE	TERM.WRAP	: WRAPPING TERMINAL
DSCR.CE	: CERAMIC DISCRIMINATOR	THRMST.CHP	: CHIP THERMISTOR
FER.BEAD	: FERRITE BEADS	TR.CHP	: CHIP TRANSISTOR
FER.CORE	: FERRITE CORE	TR.DGT	: DIGITAL TRANSISTOR
FET.CHP	: CHIP FET	TR.DGT.CHP	: CHIP DIGITAL TRANSISTOR
FL.DSPLY	: FLUORESCENT DISPLAY	TRANS	: TRANSFORMER
FLTR.CE	: CERAMIC FILTER	TRANS.PULS	: PULSE TRANSFORMER
FLTR.COMB	: COMB FILTER MODULE	TRANS.PWR	: POWER TRANSFORMER ASS'y
FLTR.LC.RF	: LC FILTER ,EMI	TUNER.AM	: TUNER PACK, AM
GND.MTL	: GROUND PLATE	TUNER.FM	: TUNER PACK, FM
GND.TERM	: GROUND TERMINAL	TUNER.PK	: FRONT-END TUNER PACK
HOLDER.FUS	: FUSE HOLDER	VR	: ROTARY POTENTIOMETER
IC.PRTCT	: IC PROTECTOR	VR.MTR	: POTENTIOMETER WITH MOTOR
JUMPER.CN	: JUMPER CONNECTOR	VR.SW	: POTENTIOMETER WITH ROTARY SW
JUMPER.TST	: JUMPER, TEST POINT	VR.SLIDE	: SLIDE POTENTIOMETER
		VR.TRIM	: TRIMMER POTENTIOMETER

Note) Those parts marked with “#” are not included in the P.C.B. ass'y.

* Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

Schm	Ref.	PART NO.	Description	Remarks	Market
*		AAX47110	P.C.B.	MONO BOARD	3139 248 82441
*	1201	AAX47720	RSNR.CRYS	SM 8M4672 30P	2422 543 01292
	2320	UF037470	C.EL.CHP	47uF 16V	
	2321	UF037470	C.EL.CHP	47uF 16V	
	2410	UF038100	C.EL.CHP	100uF 16V	
	2411	UF038100	C.EL.CHP	100uF 16V	
	2417	UF037100	C.EL.CHP	10uF 16V	
	2500	UF017470	C.EL.CHP	47uF 6.3V	
	2525	UF017470	C.EL.CHP	47uF 6.3V	
	2605	UF037100	C.EL.CHP	10uF 16V	
	2607	UF037100	C.EL.CHP	10uF 16V	
	2635	UF066470	C.EL.CHP	4.7uF 50V	
	2636	UF066470	C.EL.CHP	4.7uF 50V	
	2702	UF066220	C.EL.CHP	2.2uF 50V	
	2706	UF038100	C.EL.CHP	100uF 16V	
	2709	UF066220	C.EL.CHP	2.2uF 50V	
	2713	UF038100	C.EL.CHP	100uF 16V	
	2720	UF066220	C.EL.CHP	2.2uF 50V	
	2725	UF066220	C.EL.CHP	2.2uF 50V	
	2728	UF037100	C.EL.CHP	10uF 16V	
	2729	UF038100	C.EL.CHP	100uF 16V	
	2732	UF066220	C.EL.CHP	2.2uF 50V	
	2740	UF038100	C.EL.CHP	100uF 16V	
	2742	UF066220	C.EL.CHP	2.2uF 50V	
	2747	UF037100	C.EL.CHP	10uF 16V	
	2748	UF038100	C.EL.CHP	100uF 16V	
	2751	UF038100	C.EL.CHP	100uF 16V	
	2910	UF037470	C.EL.CHP	47uF 16V	
	2912	UF037470	C.EL.CHP	47uF 16V	
*	6100	AAX47290	DIODE	BAS316	3198 010 10630
*	6101	AAX47290	DIODE	BAS316	3198 010 10630
	6300	AAX22690	DIODE.CHP	S1D	9322 128 69685
	6301	AAX22690	DIODE.CHP	S1D	9322 128 69685
	6302	AAX22690	DIODE.CHP	S1D	9322 128 69685
*	6400	AAX47290	DIODE	BAS316	3198 010 10630
*	7100	AAX47490	TR	BC847BPN	9340 425 30115
*	7101	AAX46630	IC	MC34072D	9322 047 15668
*	7102	AAX46640	IC	L78L05ACD	9322 068 38668
*	7103	AAX47380	TR	BC847B	3198 010 42030
	7105	AAX39570	IC	TZA1033HL/K2	9352 703 49118
*	7106	AAX46630	IC	MC34072D	9322 047 15668
*	7107	AAX47420	TR	BC807-25	3198 010 43130
*	7108	AAX47430	TR	BC817-25	3198 010 43230
	7109	AAX39450	FET	BST82	9337 331 10215
*	7110	AAX47450	TR	BFS20	9330 921 11215
*	7111	AAX47450	TR	BFS20	9330 921 11215
	7200	AAX39440	FET	IRLML2502	9322 163 27685
*	7201	AAX47390	TR	BC857B	3198 010 42150
*	7202	AAX47490	TR	BC847BPN	9340 425 30115
	7207	AAX39560	IC	SAA7812HL/M3B	9352 681 05557
	7300	AAX39530	IC	BA6665FM	9322 139 85668
*	7301	AAX46650	IC	LM833D	9322 068 82668
*	7303	AAX46670	IC	BA5938FM	9322 128 22668

* New Parts

Schm	Ref.	PART NO.	Description	Remarks	Market
*	7305	AAX46710	IC	L78M09CDT	9322 136 29668
*	7400	AAX46690	IC	M24C64-WMN6	9322 130 41668
*	7404	AAX47380	TR	BC847B	3198 010 42030
*	7405	AAX47380	TR	BC847B	3198 010 42030
*	7406	AAX46980	IC	74LVC00APW	9352 499 80118
*	7409	AAX47380	TR	BC847B	3198 010 42030
*	7412	AAX46820	IC	NCP301LSN27	9322 178 88685
*	7413	AAX47390	TR	BC857B	3198 010 42150
	7500	AAX39540	IC	MT48LC4M16A2TG-7E	9322 166 67668
*	7508	AAX47480	TR	BC847BS	9340 425 20115
*	7601	AAX46850	IC	ST15588LVA	9322 188 97671
*	7700	AAX46610	FET	BSN20	9340 125 00235
*	7701	AAX47490	TR	BC847BPN	9340 425 30115
*	7703	AAX46610	FET	BSN20	9340 125 00235
*	7704	AAX46770	IC	LF33ABDT	9322 172 45668
*	7705	AAX47490	TR	BC847BPN	9340 425 30115
*	7707	AAX46760	IC	LD1117ADT18	9322 167 69668
*	7708	AAX46610	FET	BSN20	9340 125 00235
*	7709	AAX47490	TR	BC847BPN	9340 425 30115
*	7710	AAX46610	FET	BSN20	9340 125 00235
*	7714	AAX47490	TR	BC847BPN	9340 425 30115
*	7716	AAX46700	IC	LD1117DT33	9322 134 45668
*	7717	AAX47490	TR	BC847BPN	9340 425 30115
*	7719	AAX46700	IC	LD1117DT33	9322 134 45668
	7720	AAX29510	IC	74HCT1G125	9352 456 80115
*	7721	AAX47490	TR	BC847BPN	9340 425 30115
	7903	AAX39920	RSNR.CRYS	27MHz 2560TK-2	2722 171 08763
*		AAX47040	P.C.B.	AV	3139 248 82051
*	1000	AAX47540	JACK.PIN	6P	2422 026 05324
*	1001	AAX47550	JACK.PIN	3P	2422 026 05351
*	1003	AAX47120	TERM	4P	2422 026 05188
*	1004	AAX47510	JACK.PIN	1P	2422 026 04378
*	1200	AAX47280	SW.SLIDE	1P	2422 127 00476
	2110	UR867100	C.EL	10uF 50V	
	2200	UR848100	C.EL	100uF 25V	
	2206	UR848100	C.EL	100uF 25V	
	2215	UR867100	C.EL	10uF 50V	
	2219	UR847470	C.EL	47uF 25V	
*	2221	AAX47500	C.EL	100uF 16V	2020 009 90061
*	2232	AAX47500	C.EL	100uF 16V	2020 009 90061
	2300	UR847470	C.EL	47uF 25V	
	2301	UR847470	C.EL	47uF 25V	
	2302	UR867100	C.EL	10uF 50V	
	2303	UR848100	C.EL	100uF 25V	
	2305	UR867100	C.EL	10uF 50V	
	2306	UR848100	C.EL	100uF 25V	
	2308	UR838220	C.EL	220uF 16V	
	2316	UR848100	C.EL	100uF 25V	
*	6300	AAX47290	DIODE	BAS316	3198 010 10630
*	7200	AAX46880	IC	PCF8574T	9337 280 80118

* New Parts

Schm	Ref.	PART NO.	Description	Remarks	Market
*	7201	AAx46780	IC	AK4382AVT	9322 177 09685
*	7202	AAx46650	IC	LM833D	9322 068 82668
*	7203	AAx46650	IC	LM833D	9322 068 82668
*	7214	AAx47430	TR	BC817-25	3198 010 43230
*	7220	AAx47380	TR	BC847B	3198 010 42030
*	7221	AAx47430	TR	BC817-25	3198 010 43230
*	7222	AAx47380	TR	BC847B	3198 010 42030
*	7225	AAx47430	TR	BC817-25	3198 010 43230
*	7227	AAx47430	TR	BC817-25	3198 010 43230
*	7229	AAx47430	TR	BC817-25	3198 010 43230
*	7234	AAx47430	TR	BC817-25	3198 010 43230
*	7235	AAx47430	TR	BC817-25	3198 010 43230
*	7236	AAx47430	TR	BC817-25	3198 010 43230
*	7237	AAx47430	TR	BC817-25	3198 010 43230
*	7238	AAx47430	TR	BC817-25	3198 010 43230
*	7301	AAx46660	IC	L7908CV	9322 069 79682
*	7302	AAx46900	IC	L7808CV	9339 208 10682
*	7303	AAx46870	IC	L7805CV	9335 202 90682
*	7320	AAx47390	TR	BC857B	3198 010 42150
*	7321	AAx47390	TR	BC857B	3198 010 42150
*	7322	AAx47380	TR	BC847B	3198 010 42030
*	7323	AAx46600	FET	RLML2502 (INRO)	9322 163 53685
*	7400	AAx47710	CN.PHOT.SN	JFJ1000	9322 175 41687
*		AAx47080	P.C.B.	FRONT	3139 248 82261
	1100	AAx39770	BUZZER	PKM13EPY-4002	2422 527 01005
	1111	AAx23300	RSNR.CRYS	8MHz CSTS	2422 540 98423
	1200	AAx39710	SW.TACT		2422 128 02742
	1201	AAx39710	SW.TACT		2422 128 02742
	1202	AAx39710	SW.TACT		2422 128 02742
	1203	AAx39710	SW.TACT		2422 128 02742
	1204	AAx39710	SW.TACT		2422 128 02742
	1205	AAx39710	SW.TACT		2422 128 02742
	1206	AAx39710	SW.TACT		2422 128 02742
	1207	AAx39710	SW.TACT		2422 128 02742
	1208	AAx39710	SW.TACT		2422 128 02742
	1209	AAx39710	SW.TACT		2422 128 02742
	1310	AAx39710	SW.TACT		2422 128 02742
	1410	AAx39710	SW.TACT		2422 128 02742
	2101	UF038100	C.EL. CHP	100uF 16V	
*	2106	AAx47340	C.EL. CHP	22uF 35V	3198 030 72290
*	2108	AAx47340	C.EL. CHP	22uF 35V	3198 030 72290
*	2109	AAx47340	C.EL. CHP	22uF 35V	3198 030 72290
*	2115	AAx47340	C.EL. CHP	22uF 35V	3198 030 72290
	2120	UF038100	C.EL. CHP	100uF 16V	
*	6100	AAx47020	LED	LTL-816YE	9322 184 08676
*	6101	AAx47020	LED	LTL-816YE	9322 184 08676
*	6102	AAx47020	LED	LTL-816YE	9322 184 08676
*	6103	AAx47020	LED	LTL-816YE	9322 184 08676
*	6104	AAx47020	LED	LTL-816YE	9322 184 08676
*	6105	AAx47290	DIODE	BAS316	3198 010 10630

* New Parts

Schm	Ref.	PART NO.	Description	Remarks	Market
*	6107	AAx47290	DIODE	BAS316	3198 010 10630
*	6111	AAx47020	LED	LTL-816YE	9322 184 08676
*	6120	AAx47330	DIODE	PDZ6.2B	9340 548 54115
*	6200	AAx47010	LED	LTL-816GE	9322 183 96676
*	6201	AAx47010	LED	LTL-816GE	9322 183 96676
*	6202	AAx47010	LED	LTL-816GE	9322 183 96676
*	6203	AAx47010	LED	LTL-816GE	9322 183 96676
*	6204	AAx47010	LED	LTL-816GE	9322 183 96676
*	6210	AAx47020	LED	LTL-816YE	9322 184 08676
*	7100	AAx47700	FL.DSPLY	FTD 11-MT-131GNK	3139 240 50281
	7101	AAx39960	IC	TMP87CH74F-3PG5	3139 240 50271
*	7102	AAx47400	TR	BC847BW	3198 010 42310
*	7104	AAx47400	TR	BC847BW	3198 010 42310
*	7105	AAx47470	TR	BC327-25	9331 795 90126
*	7106	AAx47460	TR	BC327-25	9331 795 30126
	7110	AAx39880	L.DTCT	TSOP2236LL1	9322 180 04667
*	7200	AAx46910	IC	PCF8574TS/F3	9350 847 90118
*	7201	AAx47410	TR	BC857BW	3198 010 42320
*	7202	AAx47410	TR	BC857BW	3198 010 42320
*	7203	AAx47410	TR	BC857BW	3198 010 42320
*	7204	AAx47410	TR	BC857BW	3198 010 42320
*	7205	AAx47410	TR	BC857BW	3198 010 42320
*	7206	AAx47410	TR	BC857BW	3198 010 42320
*		AAx47090	P.C.B.	MOTOR DRIVER	3139 248 81851
	2109	UF037470	C.EL. CHP	47uF 16V	
	2114	UF037470	C.EL. CHP	47uF 16V	
	2116	UF038100	C.EL. CHP	100uF 16V	
	2118	UF037470	C.EL. CHP	47uF 16V	
	2125	UF038100	C.EL. CHP	100uF 16V	
*	6100	AAx47310	DIODE	MM3Z9V1	9322 159 70685
*	6101	AAx47320	DIODE	MM3Z7V5	9322 178 25685
*	7100	AAx46680	IC	BA6247FP-Y	9322 130 25668
*	7101	AAx46880	IC	PCF8574T	9337 280 80118
*	7102	AAx47440	TR	BCP56	9322 169 63685
*	7103	AAx46810	IC	BA6287F	9322 178 38668
*	7104	AAx47440	TR	BCP56	9322 169 63685
*		V9128000	P.C.B.	CM-PH1	
	CB401	VB858200	CN.BS.PIN	3P	
	CB403	VB858200	CN.BS.PIN	3P	
	D400	V2363400	PHOT. INTR	ON1024	
	SW400	Vi294000	SW.LEVER	SSCF21	
	SW401	Vi294000	SW.LEVER	SSCF21	

* New Parts

Parts List for Chip Ceramic Capacitors

Value		Part No.	Value		Part No.	Value		Part No.
2pF	50V	US060200	120pF	50V	US062120	0.01uF	50V	US064100
3pF	50V	US060300	150pF	50V	US062150	0.015uF	50V	US064150
5pF	50V	US060500	180pF	50V	US062180	0.022uF	25V	US044220
6pF	50V	US060600	220pF	50V	US062220	0.027uF	50V	UB014270
7pF	50V	US060700	270pF	50V	US062270	0.033uF	16V	US034330
8pF	50V	US060800	330pF	50V	US062330	0.039uF	16V	US034390
10pF	50V	US061100	390pF	50V	US062390	0.047uF	16V	US034470
12pF	50V	US061120	470pF	50V	US062470	0.047uF	25V	UB214470
15pF	50V	US061150	560pF	50V	US062560	0.068uF	25V	UB214680
18pF	50V	US061180	680pF	50V	US062680	0.1uF	25V	UB215100
20pF	50V	US061200	820pF	50V	US062820	0.1uF	25V	UB245100
22pF	50V	US061220	1000pF	50V	US063100	0.15uF	25V	UB245150
24pF	50V	US061240	1200pF	50V	US063120	0.22uF	25V	UB245220
27pF	50V	US061270	1500pF	50V	US063150	0.22uF	16V	US135220
33pF	50V	US061330	1800pF	50V	US063180	0.33uF	16V	US135330
39pF	50V	US061390	2200pF	50V	US063220	0.33uF	16V	UB445330
43pF	50V	US061430	2400p	50V	UB053240	0.47uF	16V	UB445470
47pF	50V	US061470	2700pF	50V	US063270	0.68uF	16V	UB445680
56pF	50V	US061560	3300pF	50V	US063330	0.1uF	16V	US035100
62pF	50V	US061620	3900pF	50V	US063390	0.1uF	16V	US135100
68pF	50V	US061680	4700pF	50V	US063470	0.1uF	16V	UB445100
75pF	50V	US061750	5600pF	50V	US063560	1uF	16V	UB446100
82pF	50V	UB051820	6800pF	50V	US063680			
100pF	50V	US062100	8200pF	50V	US063820			

Parts List for Chip Carbon Resistors

Value	1/10W Type Part No.	Value	1/10W Type Part No.	Value	1/16W Type Part No.
0 Ω	RD35 0000	4.3 kΩ	RD35 6430	0 Ω	HX61 1040
1.0 Ω	RD35 3100	4.7 kΩ	RD35 6470	1.0 Ω	HX61 0750
2.2 Ω	RD35 3220	5.1 kΩ	RD35 6510	10 Ω	HX61 1160
2.4 Ω	RD35 3240	5.6 kΩ	RD35 6560	47 Ω	HX61 1150
4.7 Ω	RD35 3470	6.2 kΩ	RD35 6620	100 Ω	HX61 0900
10 Ω	RD35 4100	6.8 kΩ	RD35 6680	220 Ω	HX61 0960
22 Ω	RD35 4220	7.5 kΩ	RD35 6750	270 Ω	HX61 1120
27 Ω	RD35 4270	8.2 kΩ	RD35 6820	390 Ω	HX61 0990
33 Ω	RD35 4330	9.1 kΩ	RD35 6910	470 Ω	HX61 0890
39 Ω	RD35 4390	10 kΩ	RD35 7100	560 Ω	HX61 1010
43 Ω	RD35 4430	11 kΩ	RD35 7110	1.0 kΩ	HX61 0910
47 Ω	RD35 4470	12 kΩ	RD35 7120	1.2 kΩ	HX61 1100
51 Ω	RD35 4510	13 kΩ	RD35 7130	1.5 kΩ	HX61 1090
62 Ω	RD35 4620	15 kΩ	RD35 7150	1.8 kΩ	HX61 1050
68 Ω	RD35 4680	16 kΩ	RD35 7160	2.7 kΩ	HX61 1140
75 Ω	RD35 4750	18 kΩ	RD35 7180	3.3 kΩ	HX61 0980
82 Ω	RD35 4820	20 kΩ	RD35 7200	4.7 kΩ	HX61 1080
91 Ω	RD35 4910	22 kΩ	RD35 7220	6.8 kΩ	HX61 1030
100 Ω	RD35 5100	24 kΩ	RD35 7240	10 kΩ	HX61 0920
120 Ω	RD35 5120	27 kΩ	RD35 7270	12 kΩ	HX61 0780
130 Ω	RD35 5130	30 kΩ	RD35 7300	15 kΩ	HX61 0950
150 Ω	RD35 5150	33 kΩ	RD35 7330	18 kΩ	HX61 0770
180 Ω	RD35 5180	36 kΩ	RD35 7360	22 kΩ	HX61 1110
200 Ω	RD35 5200	39 kΩ	RD35 7390	27 kΩ	HX61 1130
220 Ω	RD35 5220	43 kΩ	RD35 7430	30 kΩ	HX61 0810
240 Ω	RD35 5240	47 kΩ	RD35 7470	47 kΩ	HX61 1060
270 Ω	RD35 5270	51 kΩ	RD35 7510	56 kΩ	HX61 1020
300 Ω	RD35 5300	56 kΩ	RD35 7560	62 kΩ	HX61 0790
330 Ω	RD35 5330	62 kΩ	RD35 7620	82 kΩ	HX61 1170
390 Ω	RD35 5390	68 kΩ	RD35 7680	100 kΩ	HX61 0930
430 Ω	RD35 5430	75 kΩ	RD35 7750	120 kΩ	HX61 0940
470 Ω	RD35 5470	82 kΩ	RD35 7820	220 kΩ	HX61 0970
510 Ω	RD35 5510	91 kΩ	RD35 7910	390 kΩ	HX61 1000
560 Ω	RD35 5560	100 kΩ	RD35 8100	560 Ω	HX61 1010
620 Ω	RD35 5620	120 kΩ	RD35 8120	1.0 MΩ	HX61 1070
680 Ω	RD35 5680	150 kΩ	RD35 8150		
820 Ω	RD35 5820	160 kΩ	RD35 8160		
910 Ω	RD35 5910	180 kΩ	RD35 8180		
1.0 kΩ	RD35 6100	200 kΩ	RD35 8200		
1.1 kΩ	RD35 6110	220 kΩ	RD35 8220		
1.2 kΩ	RD35 6120	270 kΩ	RD35 8270		
1.3 kΩ	RD35 6130	300 kΩ	RD35 8300		
1.5 kΩ	RD35 6150	330 kΩ	RD35 8330		
1.6 kΩ	RD35 6160	390 kΩ	RD35 8390		
1.8 kΩ	RD35 6180	430 kΩ	RD35 8430		
2.0 kΩ	RD35 6200	470 kΩ	RD35 8470		
2.2 kΩ	RD35 6220	510 kΩ	RD35 8510		
2.4 kΩ	RD35 6240	680 kΩ	RD35 8680		
2.7 kΩ	RD35 6270	1.0 MΩ	RD35 9100		
3.0 kΩ	RD35 6300	1.5 MΩ	RD35 9150		
3.3 kΩ	RD35 6330	2.2 MΩ	RD35 9220		
3.6 kΩ	RD35 6360	4.7 MΩ	RD35 9470		
3.9 kΩ	RD35 6390	10 MΩ	RD35 A100		

DVD-C740/DV-C6660

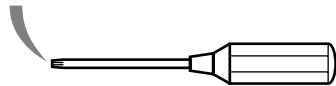
EXPLODED VIEW

When disassembling, use the special screw driver with tip shape in figure.

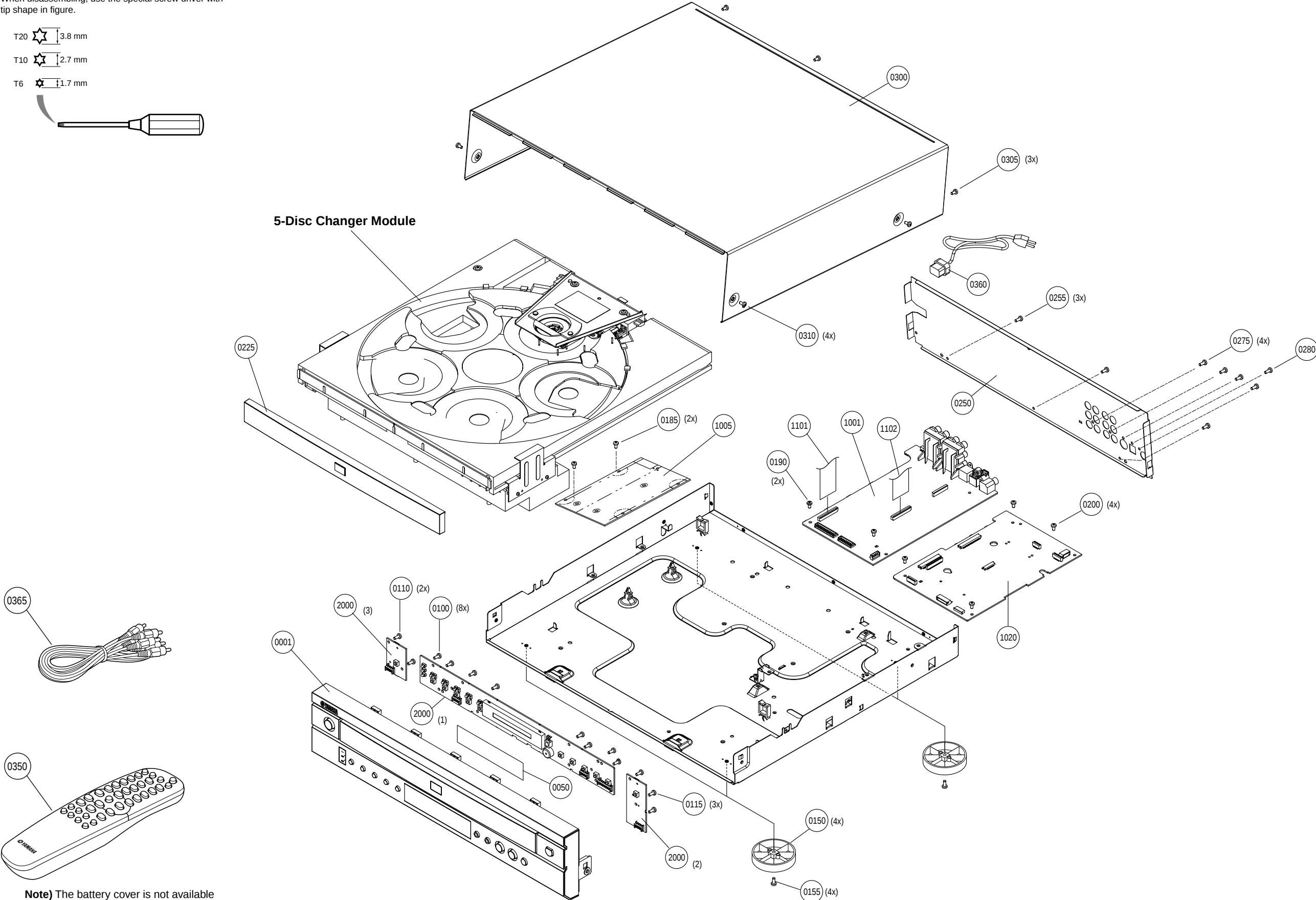
T20 3.8 mm

T10 2.7 mm

T6 1.7 mm



5-Disc Changer Module



Note) The battery cover is not available

MECHANICAL PARTS

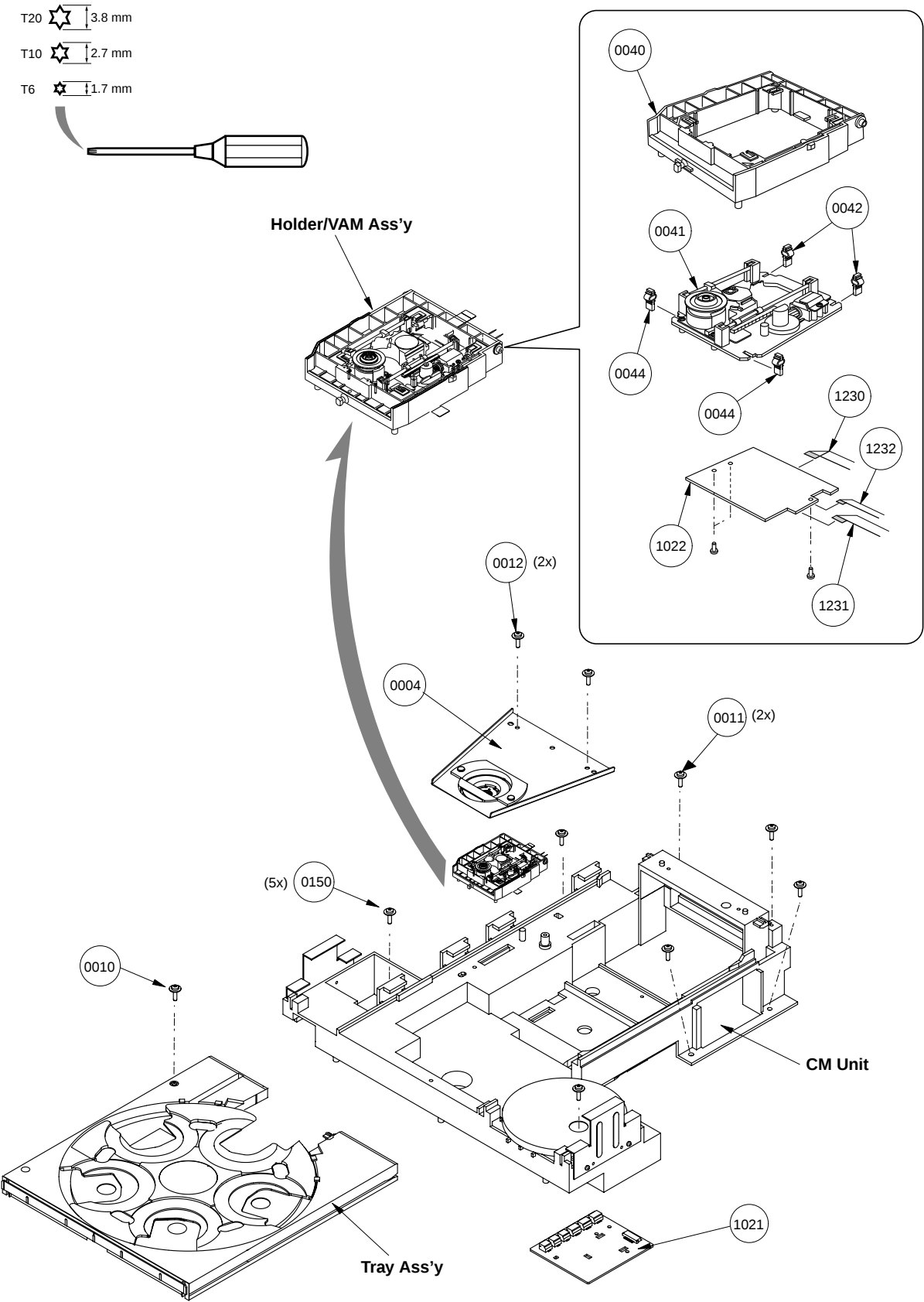
Ref. No.	PART NO.	Description	Remarks	Markets
* 0001	AAX47590	FRONT PANEL ASS'Y	DVD-C740BL	3139 247 56861 U
* 0001	AAX47610	FRONT PANEL ASS'Y	DVD-C740BL	3139 247 58201 A
* 0001	AAX47580	FRONT PANEL ASS'Y	DV-C6660BL	3139 247 56851 U
* 0001	AAX47600	FRONT PANEL ASS'Y	DV-C6660BL	3139 247 58191 A
* 0001	AAX49580	FRONT PANEL ASS'Y	DV-C6660SI	3139 247 58311 U
* 0001	AAX49570	FRONT PANEL ASS'Y	DV-C6660SI	3139 247 58301 A
0050	AAX39460	FL FILTER		3139 244 80011
0100	AAX23630	PAN HEAD TORX P-TITE SCREW	3x10 MFZN2BL	2511 076 50013
0110	AAX23630	PAN HEAD TORX P-TITE SCREW	3x10 MFZN2BL	2511 076 50013
0115	AAX23630	PAN HEAD TORX P-TITE SCREW	3x10 MFZN2BL	2511 076 50013
0150	AAX49600	LEG	C740BL,C6660SI	3139 247 58761
0150	AAX49590	LEG	C6660BL	3139 247 58751
0155	AAX23640	PAN HEAD TORX P-TITE SCREW	3x6 MFZN2BL	2511 077 00039
0185	AAX23640	PAN HEAD TORX S-TITE SCREW	3x6 MFZN2BL	2511 077 00039
0190	AAX23640	PAN HEAD TORX S-TITE SCREW	3x6 MFZN2BL	2511 077 00039
0200	AAX23640	PAN HEAD TORX S-TITE SCREW	3x6 MFZN2BL	2511 077 00039
* 0225	AAX47230	COVER TRAY	DVD-C740BL	3139 247 57021
* 0225	AAX47220	COVER TRAY	DV-C6660BL	3139 247 57011
* 0225	AAX47240	COVER TRAY	DV-C6660SI	3139 247 58241
* 0250	AAX47670	REAR PANEL	DVD-C740	3139 247 56801 U
* 0250	AAX47650	REAR PANEL	DVD-C740	3139 247 56771 A
* 0250	AAX47660	REAR PANEL	DV-C6660	3139 247 56791 U
* 0250	AAX47640	REAR PANEL	DV-C6660	3139 247 56761 A
0255	AAX23640	PAN HEAD TORX S-TITE SCREW	3x6 MFZN2BL	2511 077 00039
0275	AAX23630	PAN HEAD TORX P-TITE SCREW	3x10 MFZN2BL	2511 076 50013
0280	AAX23640	PAN HEAD TORX S-TITE SCREW	3x6 MFZN2BL	2511 077 00039
* 0300	AAX47360	TOP COVER	BL	3139 247 57211
* 0300	AAX47350	TOP COVER	SI	3139 247 56721
0305	AAX23640	PAN HEAD TORX S-TITE SCREW	3x6 MFZN2BL	2511 077 00039
0305	AAX23650	PAN HEAD TORX S-TITE SCREW	3x6 MFN133	2511 077 01039
0310	AAX23640	PAN HEAD TORX S-TITE SCREW	3x6 MFZN2BL	2511 077 00039
0310	AAX23650	PAN HEAD TORX S-TITE SCREW	3x6 MFN133	2511 077 01039
△* 0360	AAX47750	POWER CABLE	1.8m	2422 070 98235 U
△* 0360	AAX47740	POWER CABLE	1.8m	2422 070 98233 A
* 1001	AAX47040	P.C.B. ASS'Y AV	AV C740,C6680	3139 248 82051
△* 1005	AAX47760	POWER SUPPLY UNIT		3122 427 23253
* 1020	AAX47110	P.C.B. ASS'Y MONO BOARD	MONO BOARD SD5.00C	3139 248 82441
* 1101	AAX47150	FLEXIBLE FLAT CABLE	30P 80mm P=1mm	3139 241 00251
* 1102	AAX47140	FLEXIBLE FLAT CABLE	30P 140mm P=1mm	3139 241 00241
* 2000	AAX47080	P.C.B. ASS'Y FRONT	FRONT C740,C6680	3139 248 82261
ACCESSORIES				
* 0350	AAX47680	REMOTE CONTROL	RC19237007/01	3139 228 61241
0365	AAX23450	AUDIO/VIDEO CABLE	YE/RD/WH 1.5m 1pc	2422 076 00304

* New Parts

DVD-C740/DV-C6660

EXPLODED VIEW (5-DISC CHANGER MODULE)

When disassembling, use the special screw driver with tip shape in figure.

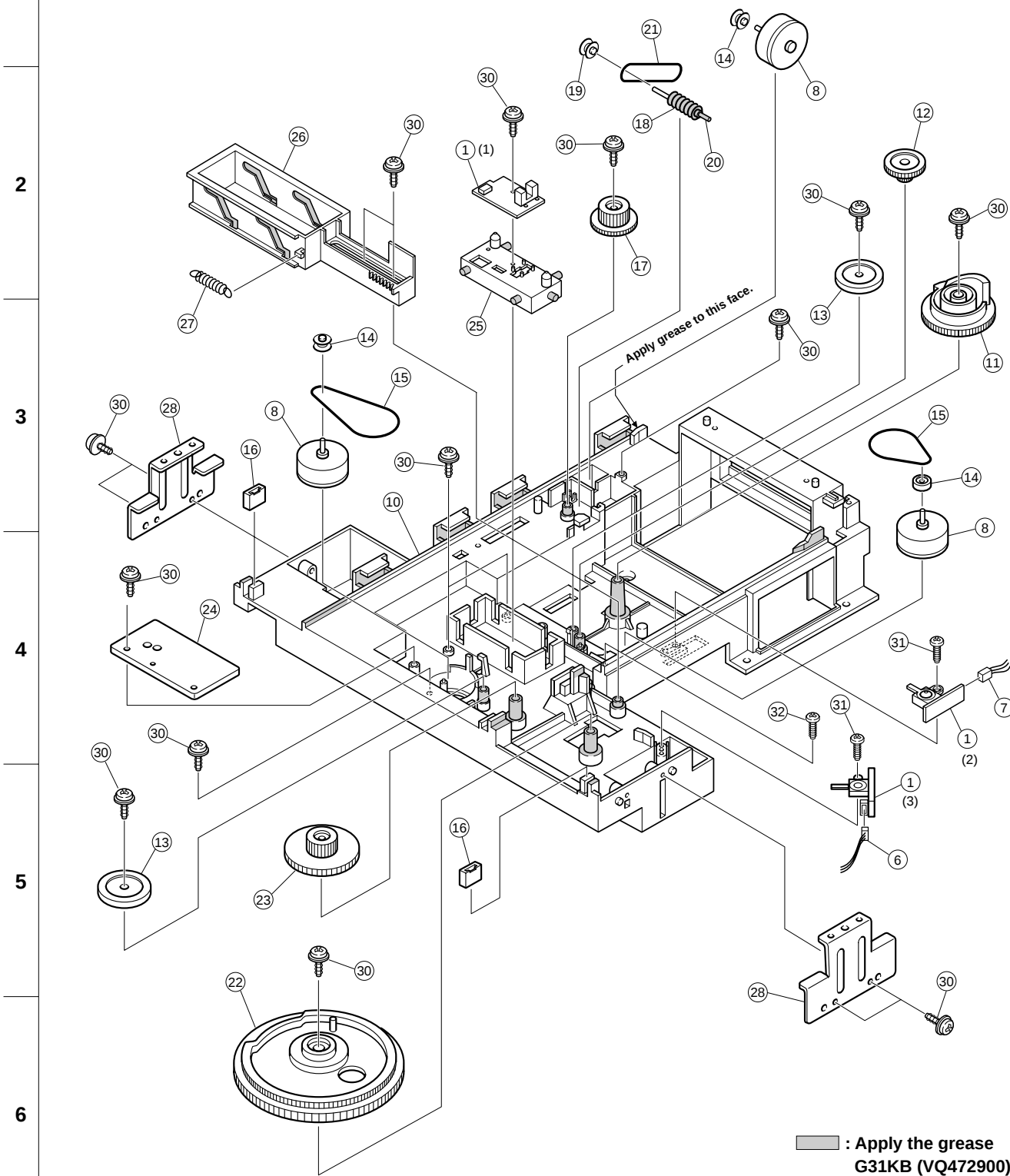


MECHANICAL PARTS (5-DISC CHANGER MODULE)

Ref. No.	PART NO.	Description	Remarks	Markets
		MODULE 5-DISC CHANGER		
* 0004	AAX47250	CLAMPER ASS'Y	3139 247 55731	
0010	AAX23630	PAN HEAD TORX P-TITE SCREW	3x10 MFZN2BL 2511 076 50013	
0011	EX602280	PW HEAD P-TITE SCREW	3x12-10 MFZN2BL 3139 240 40011	
0012	AAX23630	PAN HEAD TORX P-TITE SCREW	3x10 MFZN2BL 2511 076 50013	
* 0040	AAX47370	TRAVERSE HOLDER	VAM 5-DISC CHANGER 3139 244 02172	
* 0041	AAX46590	DVD TRAVERSE MECHANISM	VAM6001/14 9305 022 60114	
* 0042	AAX47260	SUSPENSION	3139 244 02681	
* 0044	AAX47270	SUSPENSION	3139 244 02691	
* 0150	AAX49560	PAN HEAD TORX S-TITE SCREW	4x7 MFZN2BL 3139 240 40001	
* 1022	AAX47050	P.C.B. ASS'Y	HF BUFFER 3139 248 81861	
* 1021	AAX47090	P.C.B. ASS'Y	MOTOR DRIVER 3139 248 81851	
* 1230	AAX47170	FLEXIBLE FLAT CABLE	24P 200mm P=0.5mm 3139 241 00291	
* 1231	AAX47160	FLEXIBLE FLAT CABLE	11P 225mm P=1mm 3139 241 00281	
* 1232	AAX47190	FLEXIBLE FLAT CABLE	8P 180mm P=1mm 3139 241 00311	

* New Parts

1 ■ EXPLODED VIEW (CM UNIT)



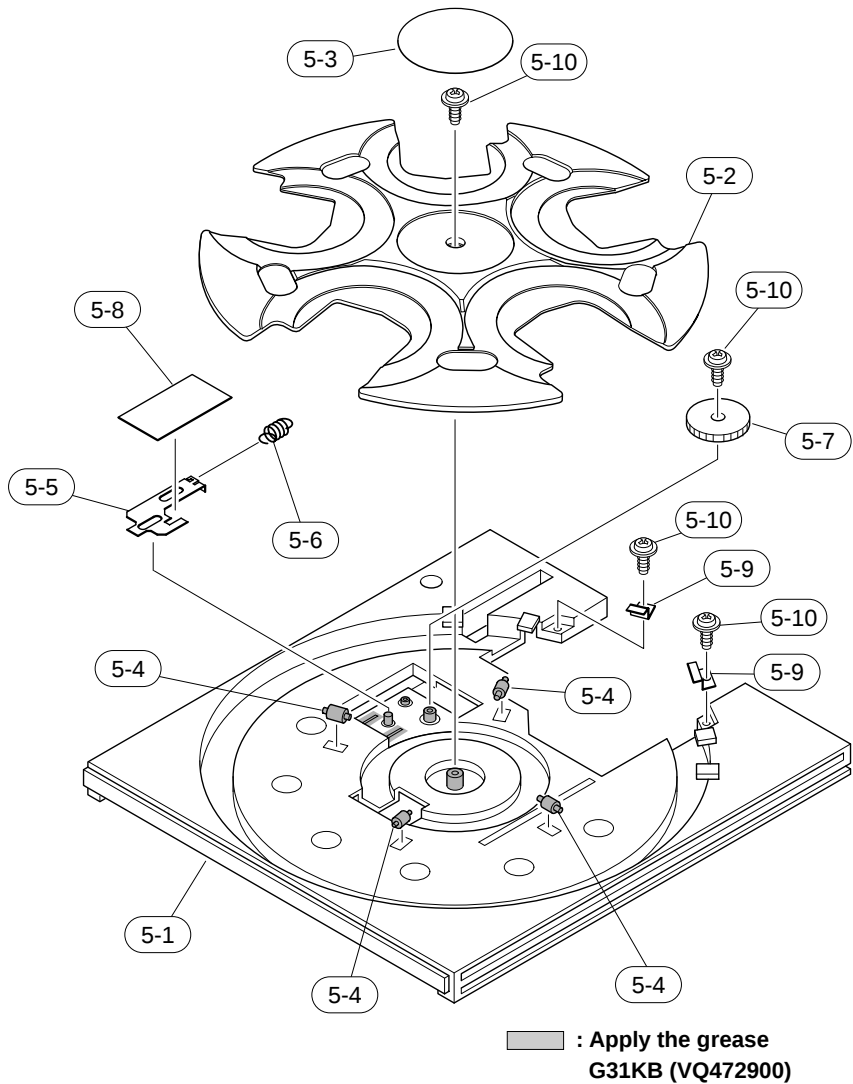
■ MECHANICAL PARTS (CM UNIT)

Ref. No.	PART NO.	Description	Remarks	Markets
CM UNIT				
* 1	V9128000	P.C.B. ASS'Y	CM-PH1	
6	V3175700	CONNECTOR ASS'Y	3P 220mm	
7	V3175900	CONNECTOR ASS'Y	3P 220mm	
⚠ 8	VM444200	MOTOR	RF-500TB-14415	
10	VZ760500	CHASSIS	B	
11	VZ760600	CAM, CL		
12	VS035400	GEAR, CL2		
13	VS036100	GEAR PULLEY		
14	VS036200	PULLEY		
15	VQ776900	BELT	V	
16	VQ775500	DAMPER, TRAY		
17	VS035800	GEAR, WW		
18	VS035700	GEAR		
19	V2009500	PULLEY, RT		
20	VS036600	SHAFT, 2		
21	VS036500	BELT, RT		
22	VZ760700	GEAR, LO		
23	VS035300	GEAR, LO1		
24	VZ760800	SHEET, BELT		
25	VZ761000	HOLDER, SENSOR		
26	VZ761200	CAM, SLIDE		
27	VS036800	SPRING, CAM		
28	VS037400	SUPPORT, TRAY		
30	V2296600	PW HEAD P-TITE SCREW	3x8-10 MFZN2BL	
31	VF617600	PAN HEAD P-TITE SCREW	2.6x8 MFC2BL	
32	03786010	BIND HEAD SCREW	2.6x5 MFC2BL	

* New Parts

DVD-C740/DV-C6660

EXPLODED VIEW (TRAY ASS'Y)



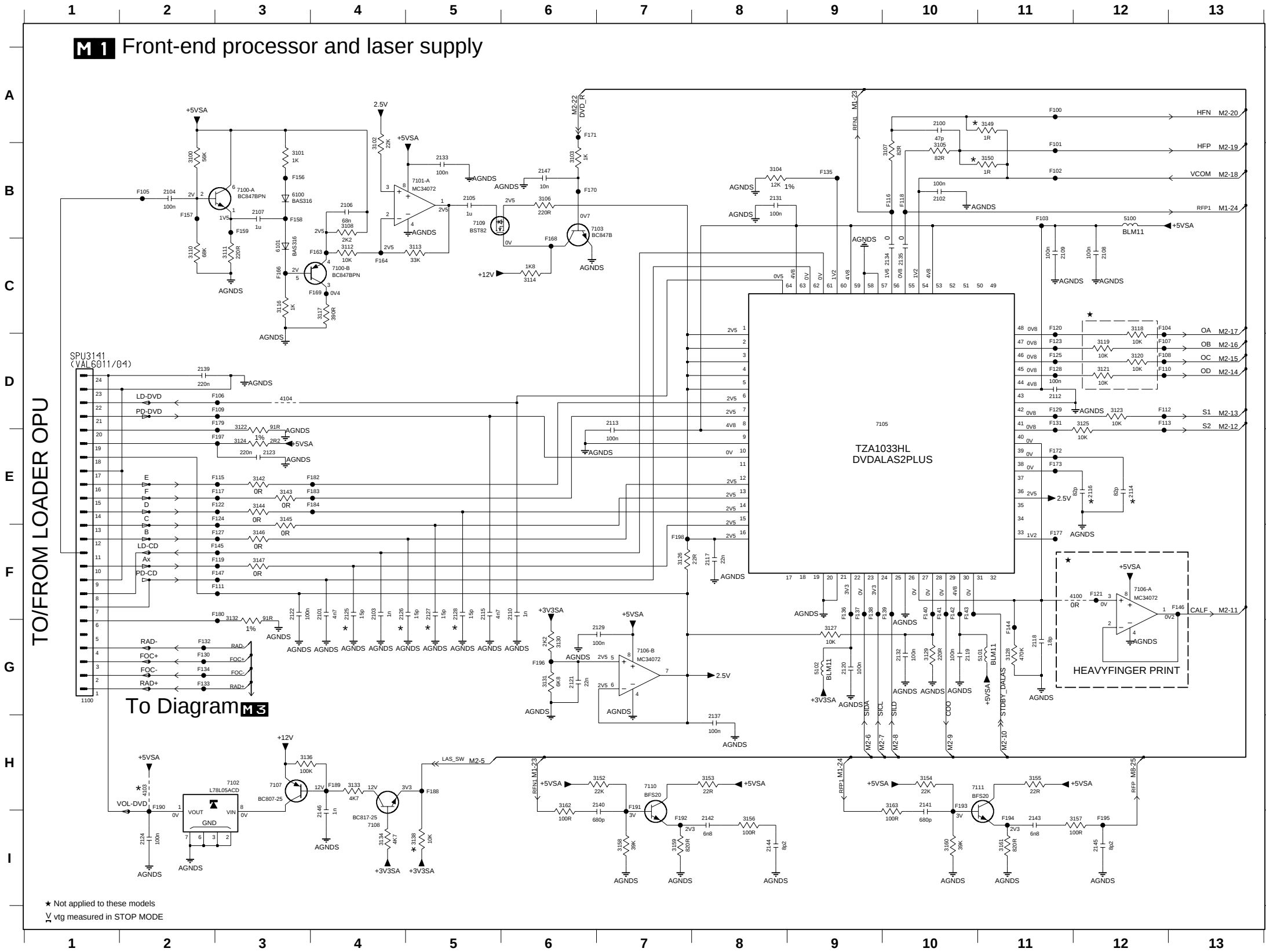
DVD-C740/DV-C6660

YAMAHA

Ref. No.	PART NO.	Description	Remarks	Markets
		TRAY ASS'Y		
5-1	VZ761500	TRAY	B	
* 5-2	V8931700	TABLE/PH	CM-260PH	
5-3	V7745300	PLATE/TABLE/D		
5-4	VS037300	ROLLER		
5-5	VW014400	LEVER	PO	
5-6	VS036900	SPRING, RT		
5-7	VZ761800	GEAR, RT1		
5-8	VS037900	SHEET, TRAY	B	
5-9	V6090400	SUPPORT/M		
5-10	VA775100	PW HEAD P-TITE SCREW	3x8-10 MFCR3BL	

* New Parts

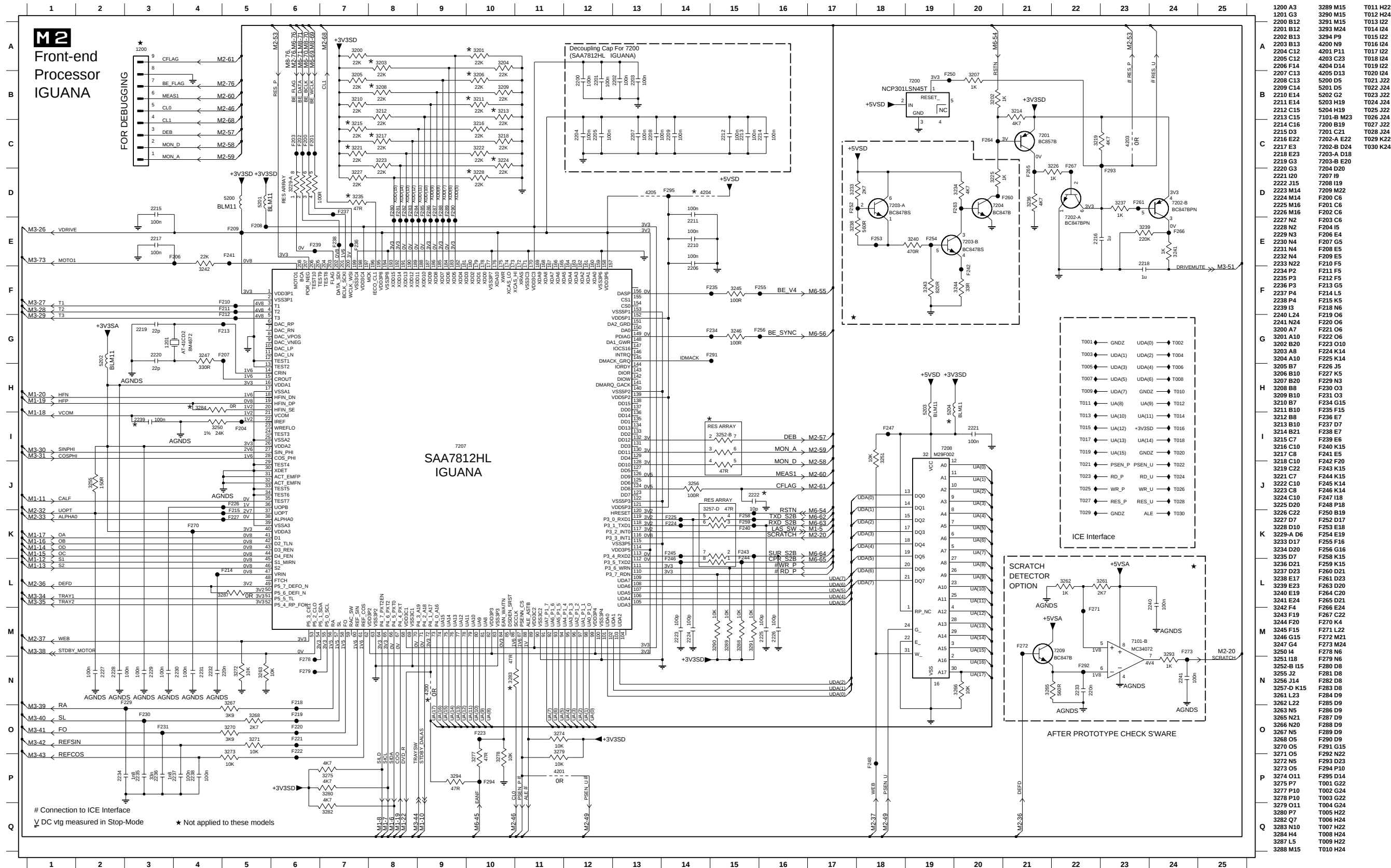
■ SCHEMATIC DIAGRAM (MONO 1/10)



1100 G1	7105 D9
2100 A10	7106-A F12
2101 F4	7106-B G7
2102 B10	7107 H3
2103 F4	7108 I4
2104 B2	7109 B5
2105 B5	7110 H7
2106 B4	7111 H10
2107 B3	F100 A11
2108 C12	F101 B11
2109 C11	F102 B11
2110 F6	F103 B11
2112 D11	F104 C12
2113 D7	F105 B2
2114 E12	F106 D3
2115 F5	F107 D12
2116 E12	F108 D12
2117 F8	F109 D3
2118 G11	F110 D12
2119 G10	F111 F3
2120 G9	F112 D12
2121 G6	F113 D12
2122 F3	F115 E3
2123 E3	F116 B10
2124 I2	F117 E3
2125 F4	F118 B10
2126 F4	F119 F3
2127 F5	F120 C11
2128 F5	F121 F12
2129 G7	F122 E3
2131 B8	F123 D11
2132 G10	F124 E3
2133 B5	F125 D11
2134 C10	F127 F3
2135 C10	F128 D11
2137 H8	F129 D11
2139 D2	F130 G2
2140 H7	F131 D11
2141 H10	F132 G2
2142 I8	F133 G2
2143 I11	F134 G2
2144 I8	F135 B9
2145 I12	F136 F9
2146 I4	F137 F9
2147 B6	F138 F9
3100 B2	F139 F10
3101 B3	F140 F10
3102 B4	F141 F10
3103 B6	F142 F10
3104 B8	F143 F10
3105 G10	F144 G11
3106 B6	F145 F3
3107 B10	F146 F13
3108 B4	F147 F3
3110 C2	F156 B3
3111 C3	F157 B2
3112 C4	F158 B3
3113 C5	F159 B3
3114 C6	F163 C4
3116 C3	F164 C4
3117 C4	F166 C3
3118 C12	F168 B6
3119 D12	F169 C4
3120 D12	F170 B6
3121 D12	F171 A6
3122 D3	F172 E11
3123 D12	F173 E11
3124 E3	F177 F11
3125 D12	F179 D3
3126 F7	F180 F3
3127 G9	F182 E4
3128 G11	F183 E4
3129 G10	F184 E4
3130 G6	F188 H5
3131 G6	F189 H4
3132 G3	F190 H2
3133 H4	F191 H7
3134 I4	F192 I7
3136 H3	F193 H10
3138 I5	F194 I11
3142 E3	F195 I12
3143 E3	F196 G6
3144 E3	F197 E3
3145 E3	F198 F7
3146 F3	
3147 F3	
3149 A11	
3150 B11	
3152 H7	
3153 H8	
3154 H10	
3155 H11	
3156 I8	
3157 I12	
3158 I7	
3159 I7	
3160 I10	
3161 I11	
3162 H6	
3163 H10	
4100 F12	
4103 H2	
4104 D3	
5100 B12	
5101 G11	
5102 G9	
6100 B3	
6101 C3	
7100-A B3	
7100-B C4	
7101-A B5	
7102 H3	
7103 B6	

* Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

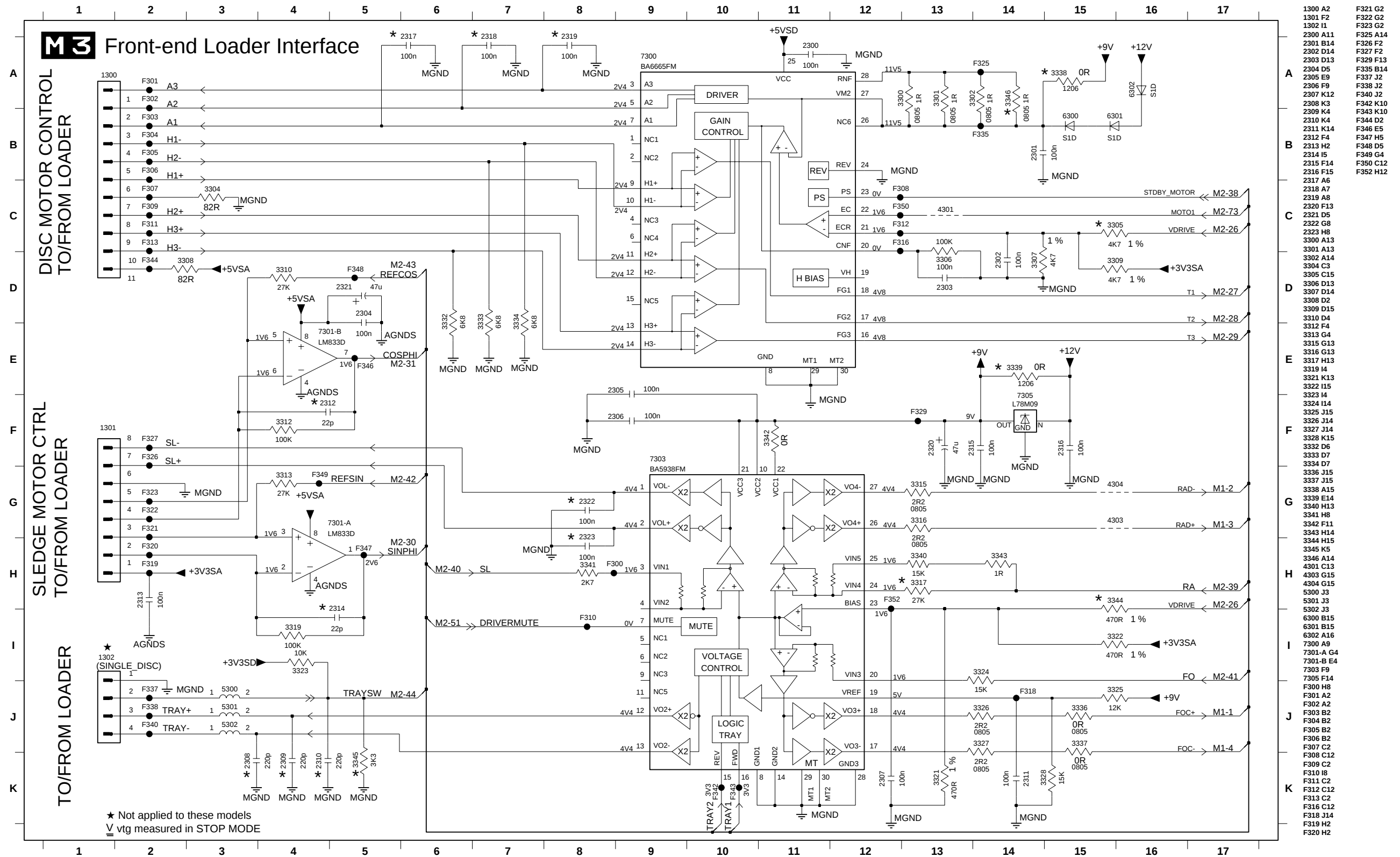
■ SCHEMATIC DIAGRAM (MONO 2/10)



* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.

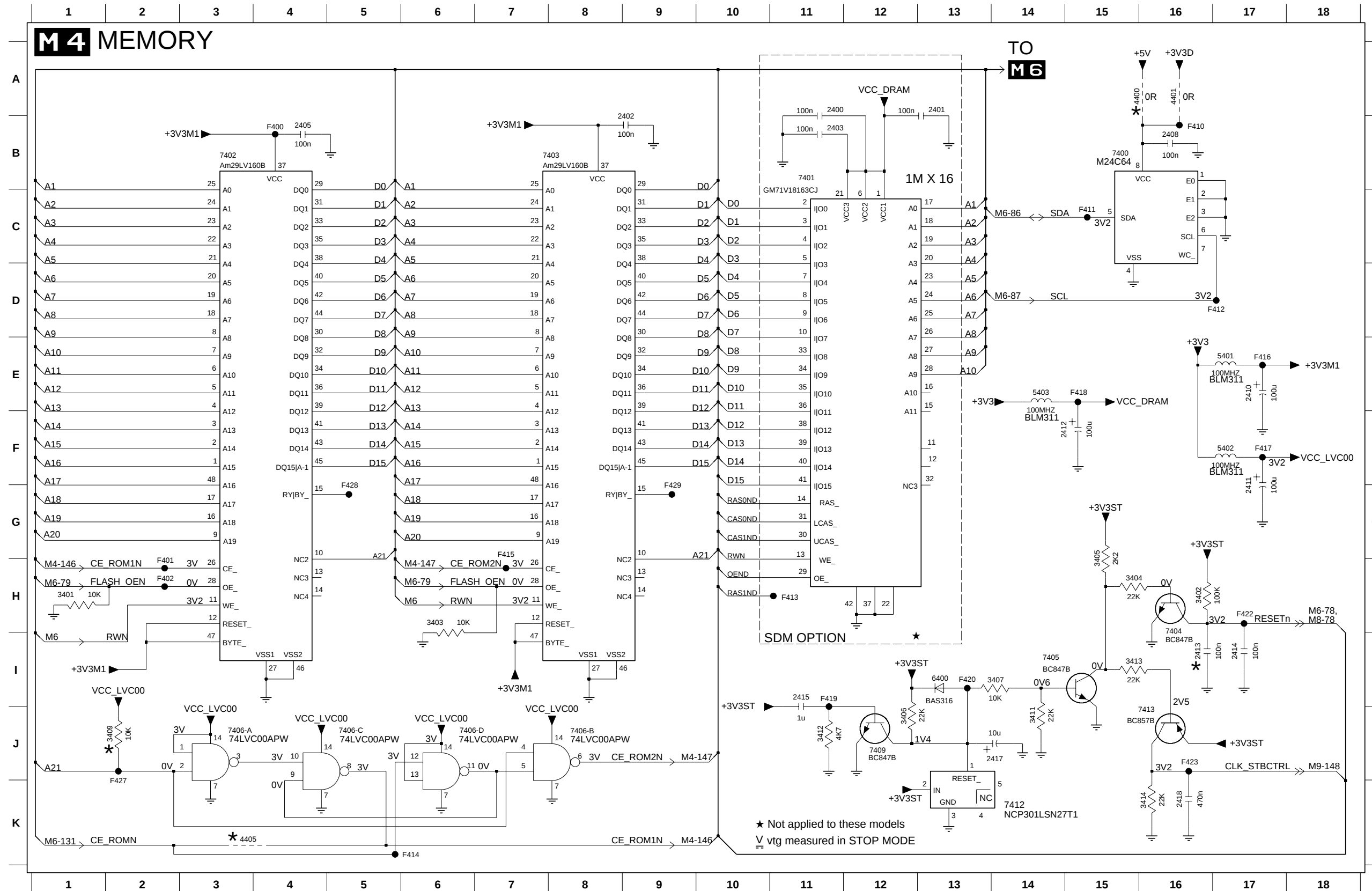
■ SCHEMATIC DIAGRAM (MONO 3/10)



* Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (MONO 4/10)

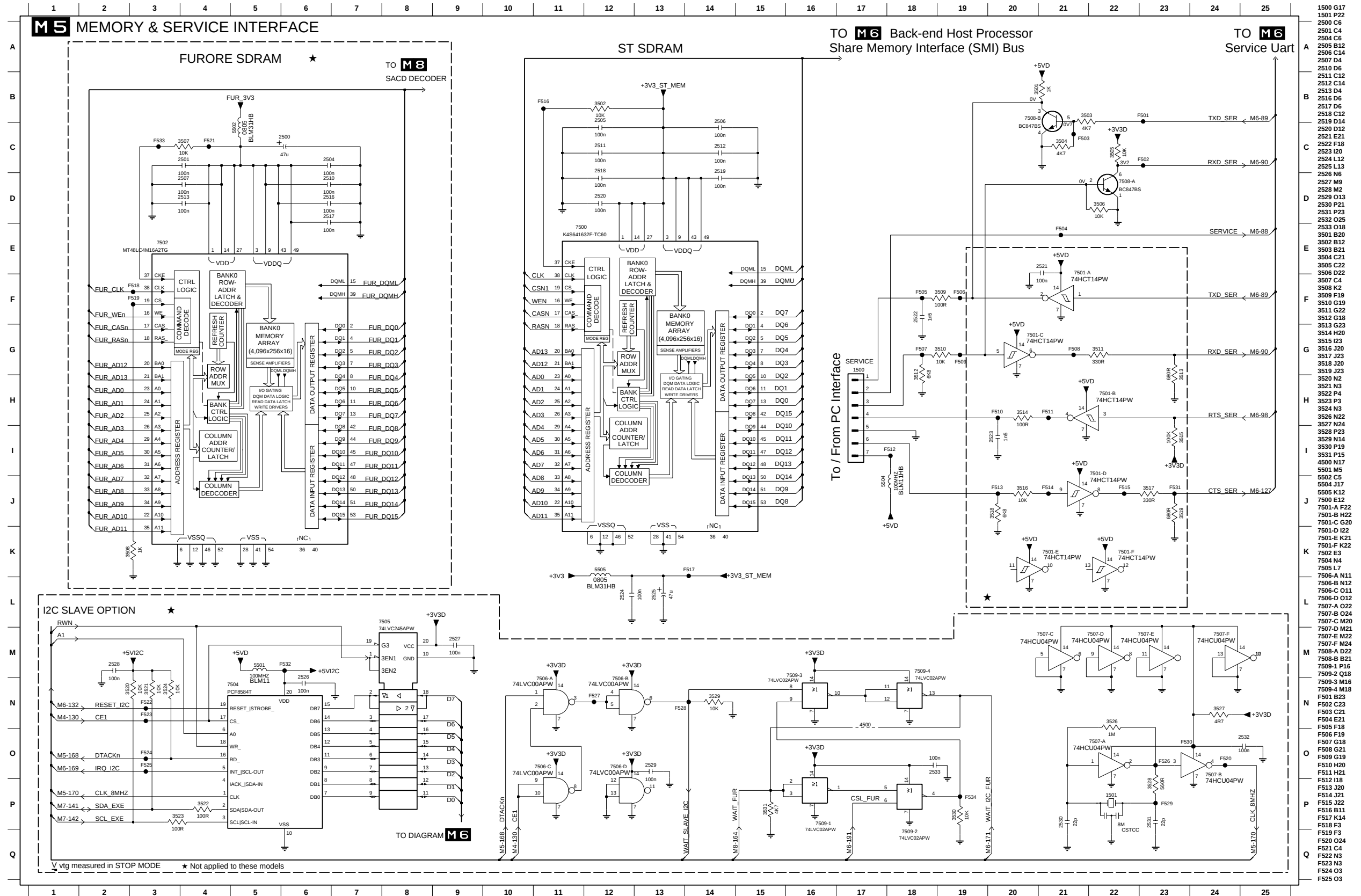


- 2400 A11
- 2401 A13
- 2402 B9
- 2403 B11
- 2405 B4
- 2408 B16
- 2410 E17
- 2411 G17
- 2412 F15
- 2413 I16
- 2414 I17
- 2415 I11
- 2417 J14
- 2418 K16
- 3401 H1
- 3402 H16
- 3403 H6
- 3404 H15
- 3405 G15
- 3406 J12
- 3407 I14
- 3409 J2
- 3411 J14
- 3412 J11
- 3413 I15
- 3414 K16
- 4400 A16
- 4401 A16
- 4405 K3
- 5401 E17
- 5402 F17
- 5403 E14
- 6400 I13
- 7400 B15
- 7401 B11
- 7402 B3
- 7403 B7
- 7404 I16
- 7405 I14
- 7406-A J3
- 7406-B J8
- 7406-C J5
- 7406-D J6
- 7409 J12
- 7412 K14
- 7413 J16
- F400 B4
- F401 H2
- F402 H2
- F410 B16
- F411 C15
- F412 D17
- F413 H11
- F414 K6
- F415 G7
- F416 E17
- F417 F17
- F418 E15
- F419 I11
- F420 I13
- F422 H17
- F423 J16
- F427 K2
- F428 G5
- F429 G9

* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

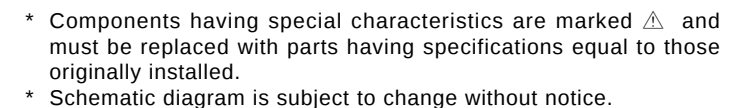
* Schematic diagram is subject to change without notice.

SCHEMATIC DIAGRAM (MONO 5/10)

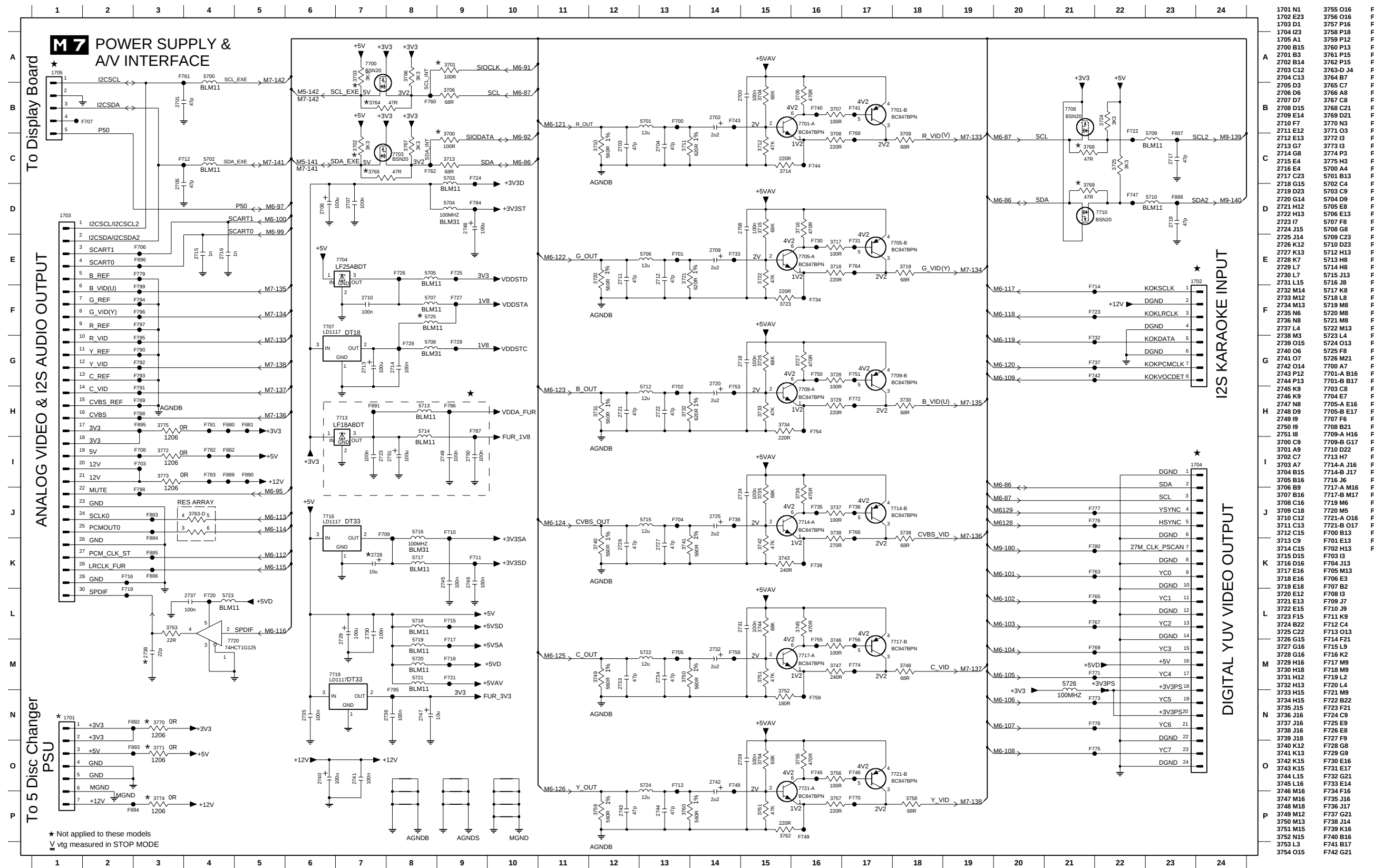


* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.



■ SCHEMATIC DIAGRAM (MONO 7/10)



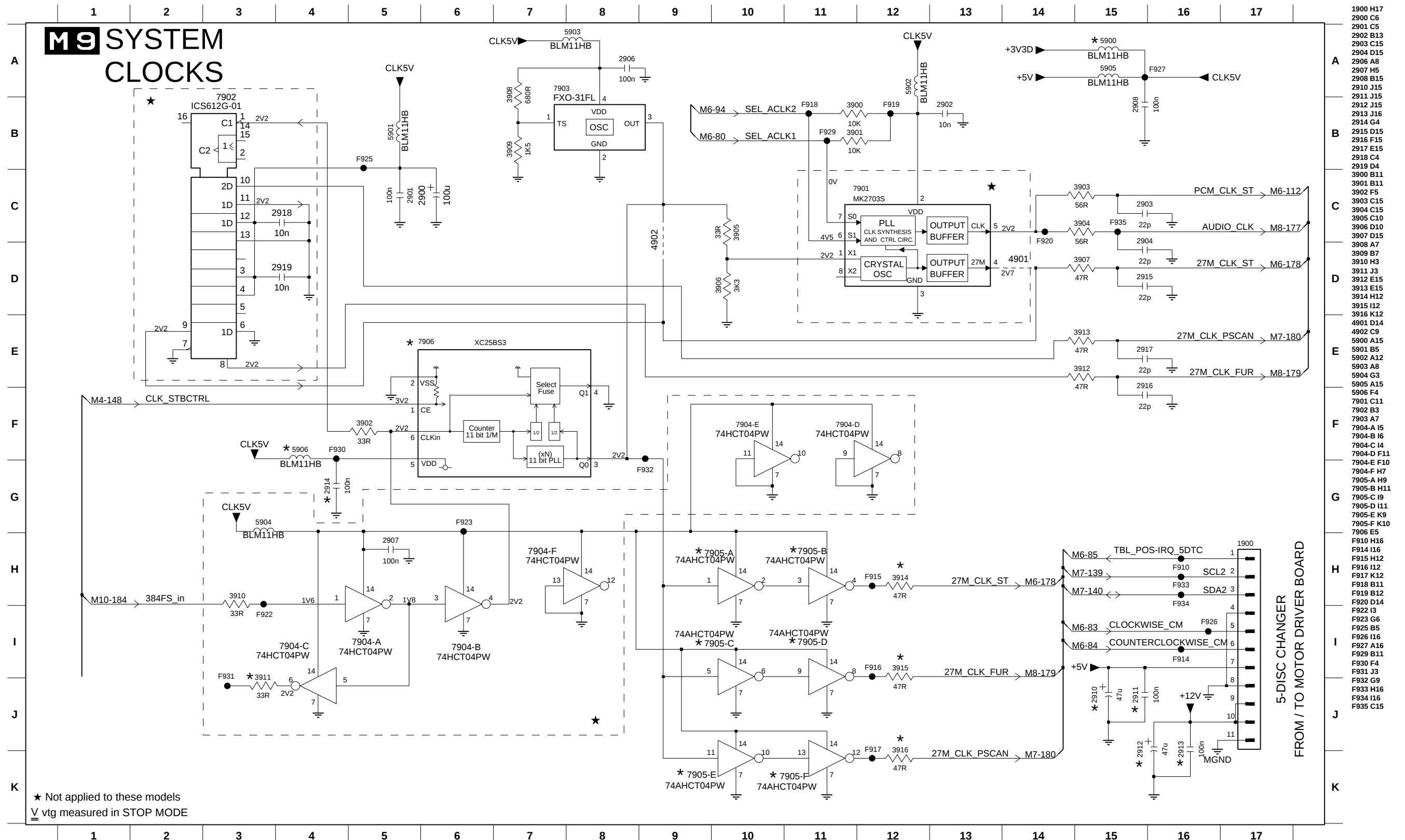
* Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.

This page is not applied to these models.

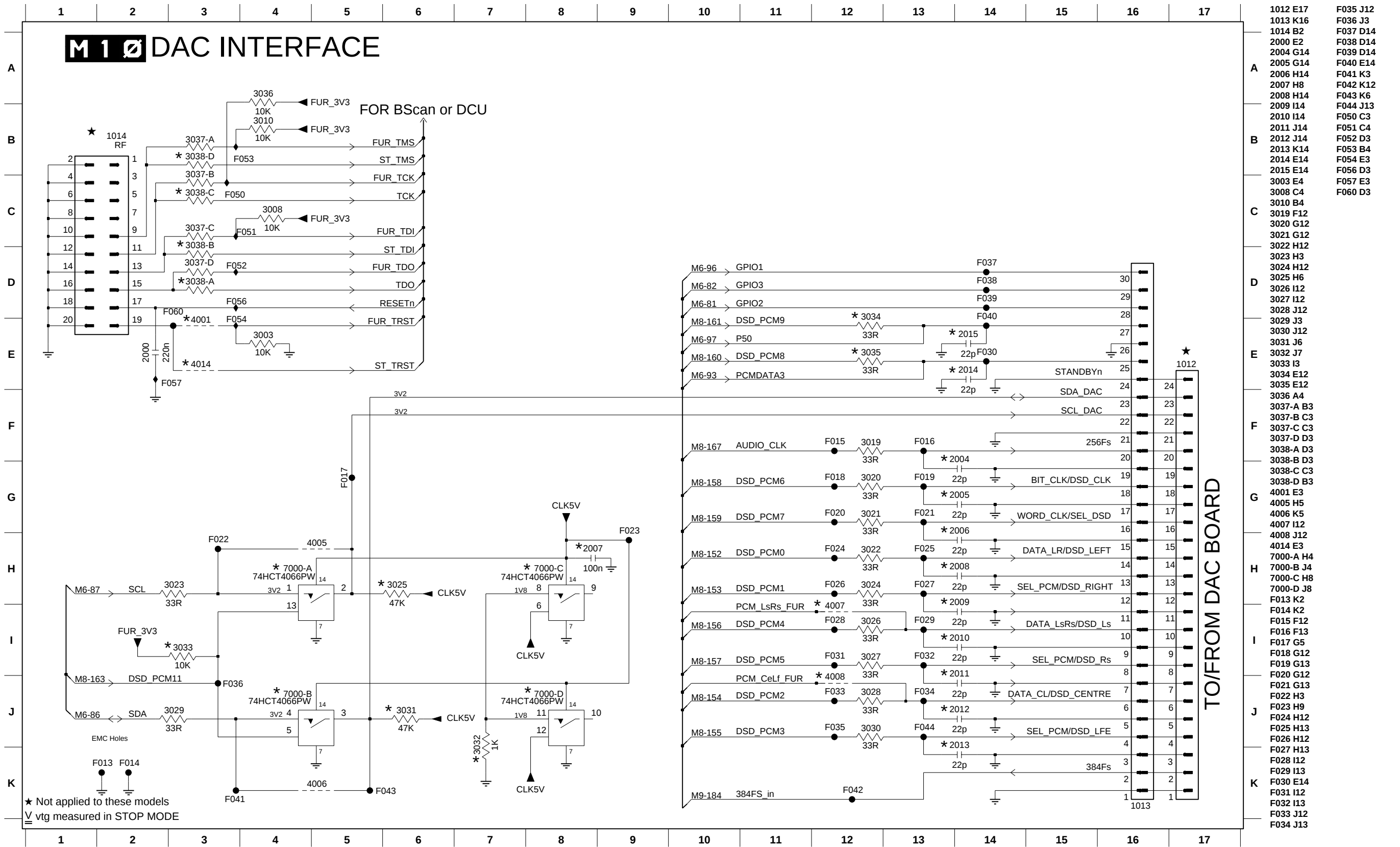


■ SCHEMATIC DIAGRAM (MONO 9/10)



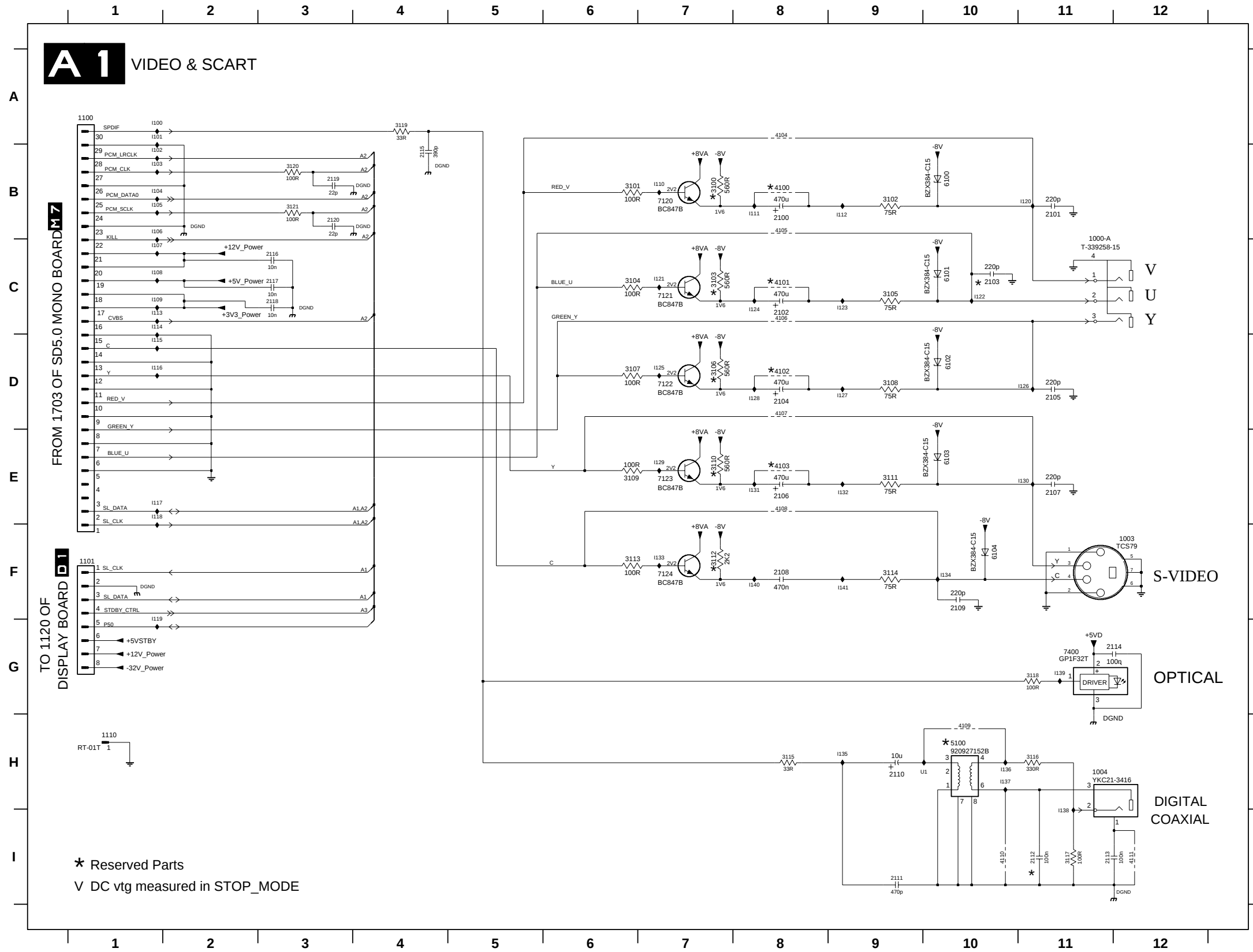
★ Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (MONO 10/10)



* Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

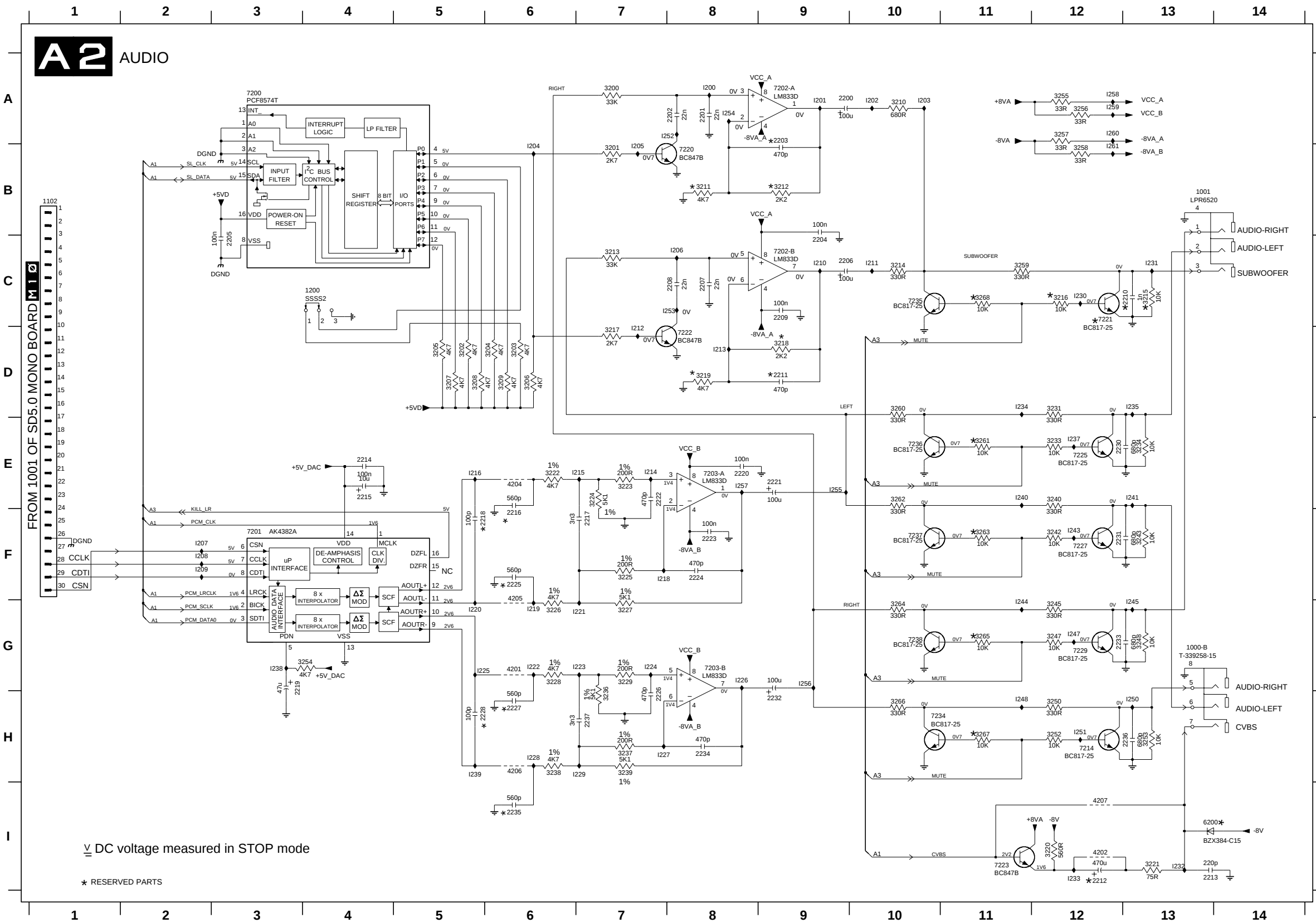
■ SCHEMATIC DIAGRAM (AV 1/3)



U1 H10	I139 G11
1000-A C11	I140 F8
1003 F12	I141 F9
1004 H11	
1100 A1	
1101 F1	
1110 H1	
2100 B8	
2101 B11	
2102 C8	
2103 C10	
2104 D8	
2105 D11	
2106 E8	
2107 E11	
2108 F8	
2109 F10	
2110 H9	
2111 I9	
2112 I11	
2113 I11	
2114 G12	
2115 B4	
2116 C3	
2117 C3	
2118 C3	
2119 B3	
2120 B3	
3100 B7	
3101 B6	
3102 B9	
3103 C7	
3104 C6	
3105 C9	
3106 D7	
3107 D6	
3108 D9	
3109 E6	
3110 E7	
3111 E9	
3112 F7	
3113 F6	
3114 F9	
3115 H8	
3116 H11	
3117 I11	
3118 G11	
3119 A4	
3120 B3	
3121 B3	
4100 B8	
4101 C8	
4102 D8	
4103 E8	
4104 A8	
4105 B8	
4106 C8	
4107 D8	
4108 E8	
4109 H10	
4110 I10	
4111 I12	
5100 H10	
6100 B10	
6101 C10	
6102 D10	
6103 E10	
6104 F10	
7120 B7	
7121 C7	
7122 D7	
7123 E7	
7124 F7	
7400 G11	
I100 A1	
I101 A1	
I102 B1	
I103 B1	
I104 B1	
I105 B1	
I106 B1	
I107 C1	
I108 C1	
I109 C1	
I110 B7	
I111 B8	
I112 B9	
I113 C1	
I114 C1	
I115 D1	
I116 D1	
I117 E1	
I118 E1	
I119 F1	
I120 B11	
I121 C7	
I122 C10	
I123 C9	
I124 C8	
I125 D7	
I126 D11	
I127 D9	
I128 D8	
I129 E7	
I130 E11	
I131 E8	
I132 E9	
I133 F7	
I134 F10	
I135 H9	
I136 H10	
I137 H10	
I138 I11	

* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

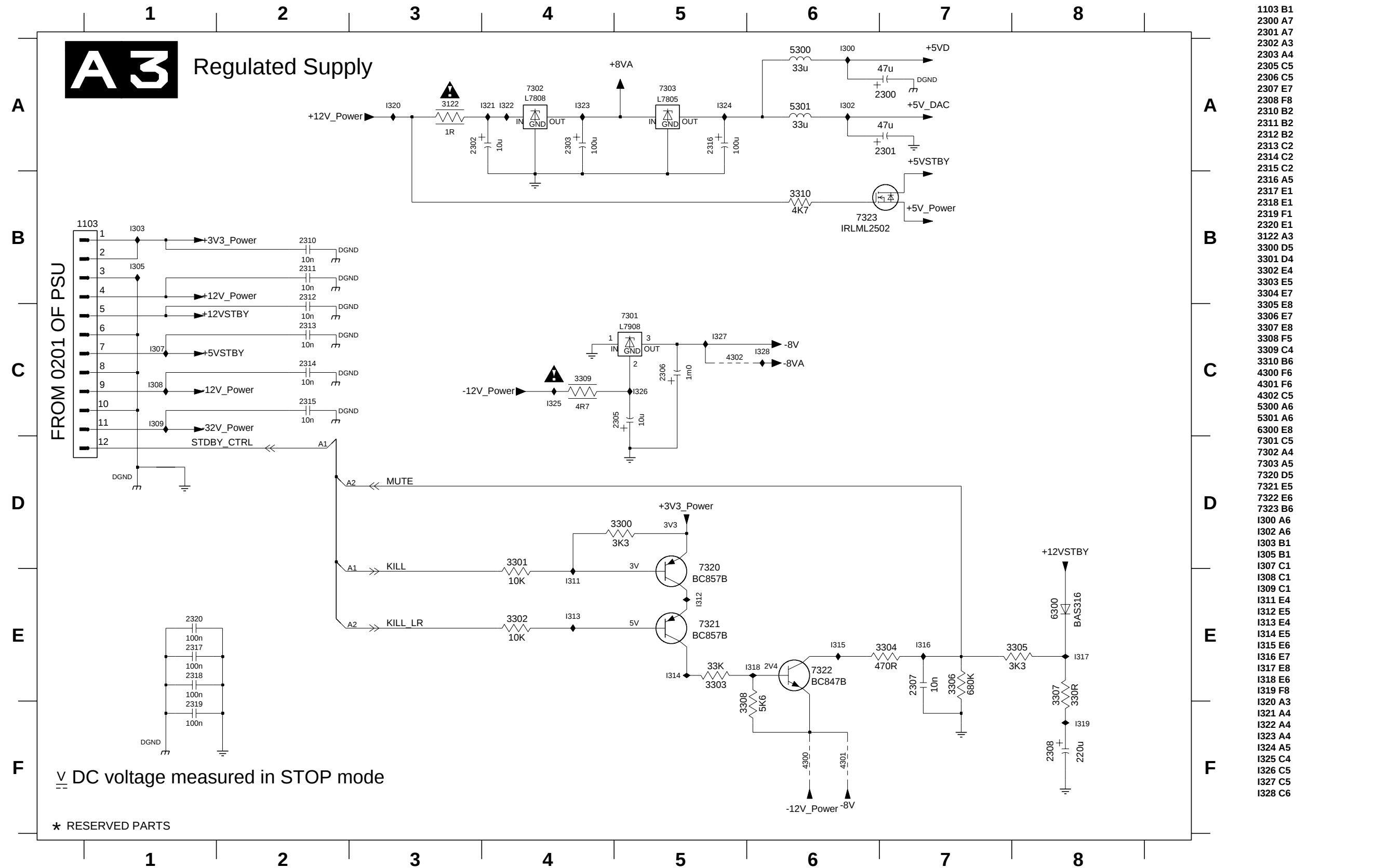
■ SCHEMATIC DIAGRAM (AV 2/3)



1000-B G13	7214 H12
1001 B13	7220 B8
1102 B1	7221 C12
1200 C4	7222 D8
2200 A9	7223 I11
2201 A8	7225 E12
2202 A8	7227 F12
2203 A9	7229 G12
2204 C9	7234 H10
2205 C3	7235 C10
2206 C9	7236 E10
2207 C8	7237 F10
2208 C8	7238 G10
2209 C9	I200 A8
2210 C13	I201 A9
2211 D9	I202 A10
2212 I12	I203 A10
2213 I13	I204 B6
2214 E4	I205 B7
2215 E4	I206 C8
2216 F6	I207 F2
2217 F7	I208 F2
2218 F5	I209 F2
2219 G3	I210 C9
2220 E8	I211 C10
2221 E9	I212 D7
2222 E7	I213 D8
2223 F8	I214 E7
2224 F8	I215 E7
2225 F6	I216 E5
2226 H7	I218 F7
2227 H6	I219 G6
2228 H5	I220 G5
2230 E12	I221 G7
2231 F12	I222 G6
2232 H9	I223 G7
2233 G12	I224 G7
2234 H8	I225 G5
2235 I6	I226 G8
2236 H13	I227 H7
2237 H7	I228 H6
2240 A7	I229 H7
3201 B7	I230 C12
3202 D5	I231 C13
3203 D6	I232 I13
3204 D6	I233 I12
3205 D5	I234 D11
3206 D6	I235 D13
3207 D5	I237 E12
3208 D5	I238 G3
3209 D6	I239 H5
3210 A10	I240 E11
3211 B8	I241 E13
3212 B9	I243 F12
3213 C7	I244 G11
3214 C10	I245 G13
3215 C13	I247 G12
3216 C12	I248 H11
3217 D7	I250 H13
3218 D9	I251 H12
3219 D8	I252 A8
3220 I12	I253 C8
3221 I13	I254 A8
3222 E6	I255 E9
3223 E7	I256 G9
3224 E7	I257 E8
3225 F7	I258 A12
3226 G6	I259 A12
3227 G7	I260 A12
3228 G6	I261 B12
3229 G7	
3231 D12	
3233 E12	
3234 E13	
3236 H7	
3237 H7	
3238 H6	
3239 H7	
3240 E12	
3242 F12	
3243 F13	
3245 G12	
3247 G12	
3248 G13	
3250 H12	
3252 H12	
3253 H13	
3254 G4	
3255 A12	
3256 A12	
3257 A12	
3258 B12	
3259 C11	
3260 D10	
3261 E11	
3262 E10	
3263 F11	
3264 G10	
3265 G11	
3266 H10	
3267 H11	
3268 C11	
4201 G6	
4202 I12	
4204 E6	
4205 F6	
4206 H6	
4207 I12	
6200 I13	
7200 A3	
7201 F3	
7202-A A9	
7202-B C9	
7203-A E8	
7203-B G8	

* Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

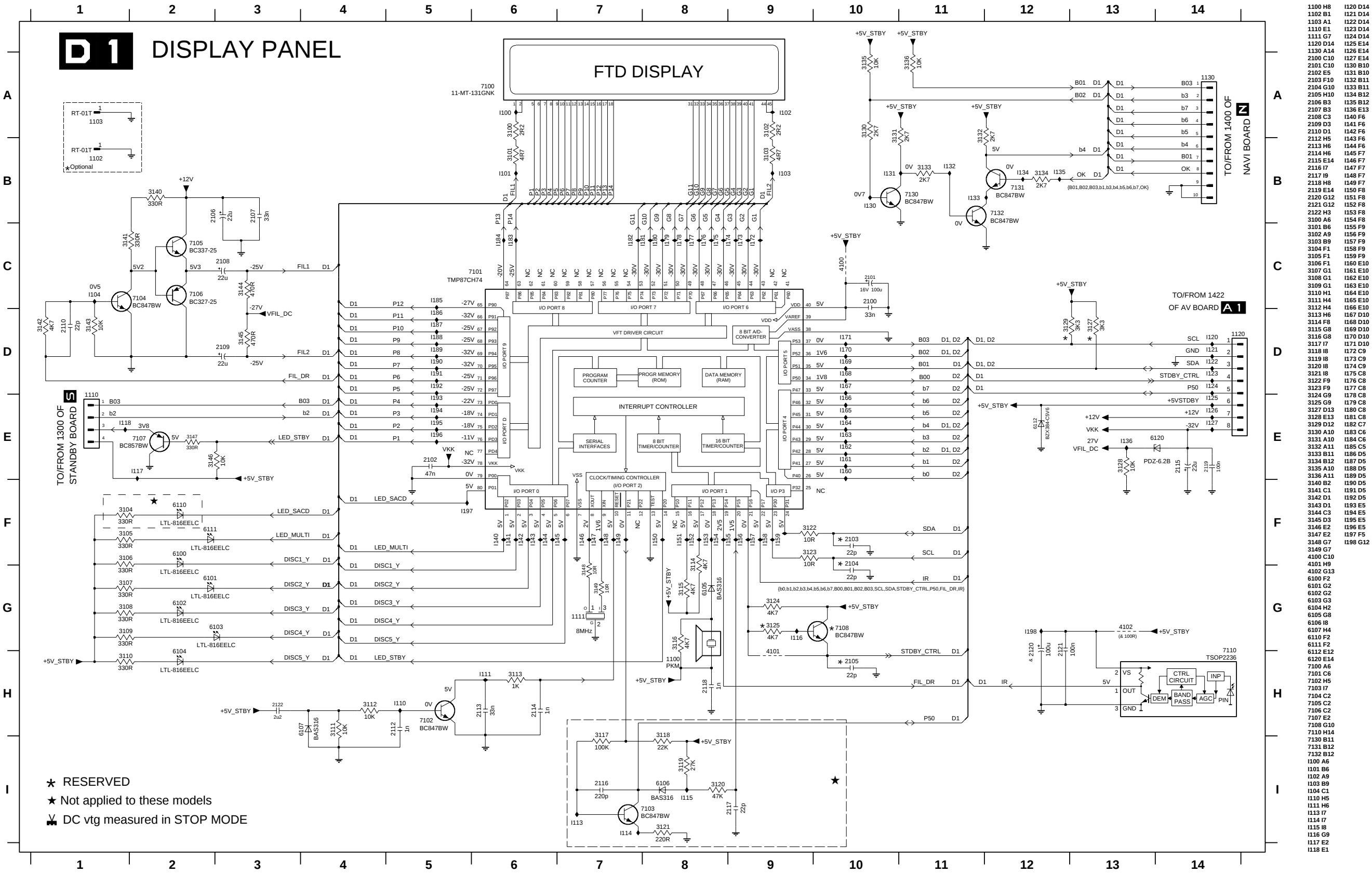
■ SCHEMATIC DIAGRAM (AV 3/3)



* Components having special characteristics are marked ⚠️ and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.

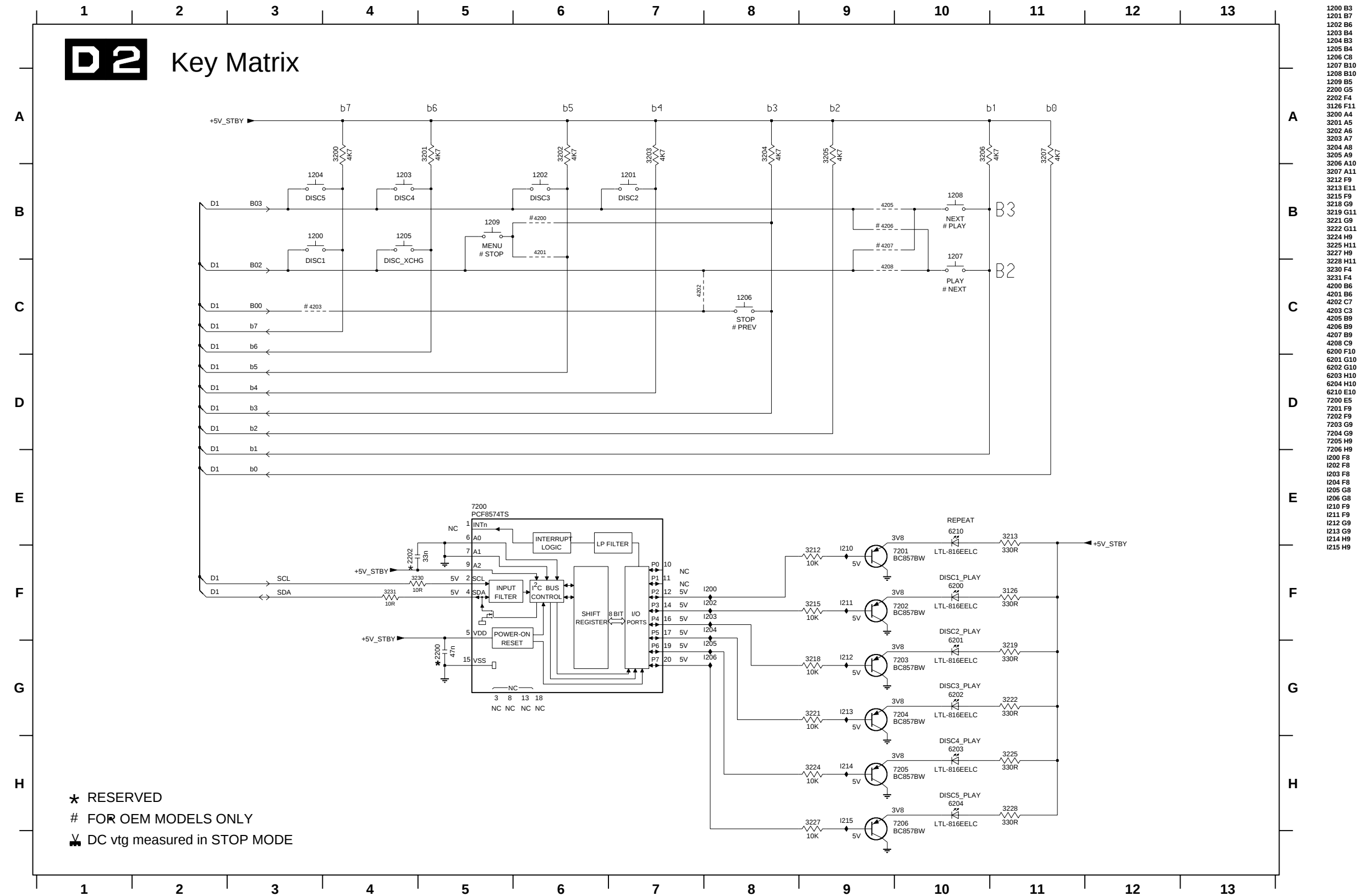
■ SCHEMATIC DIAGRAM (FRONT [1] 1/2)



1100 H8	1120 D14
1102 B1	1121 D14
1103 A1	1122 D14
1110 E1	1123 D14
1111 G7	1124 D14
1120 D14	1125 E14
1130 A14	1126 E14
2100 C10	1127 E14
2101 C10	1130 B10
2102 E5	1131 B10
2103 F10	1132 B11
2104 G10	1133 B11
2105 H10	1134 B12
2106 B3	1135 B12
2107 B3	1136 E13
2108 C3	1140 F6
2109 D3	1141 F6
2110 D1	1142 F6
2112 H5	1143 F6
2113 H6	1144 F6
2114 H6	1145 F7
2115 E14	1146 F7
2116 I7	1147 F7
2117 I9	1148 F7
2118 H8	1149 F7
2119 E14	1150 F8
2120 G12	1151 F8
2121 G12	1152 F8
2122 H3	1153 F8
3100 A6	1154 F8
3101 B6	1155 F9
3102 A9	1156 F9
3103 B9	1157 F9
3104 F1	1158 F9
3105 F1	1159 F9
3106 F1	1160 E10
3107 G1	1161 E10
3108 G1	1162 E10
3109 G1	1163 E10
3110 H1	1164 E10
3111 H4	1165 E10
3112 H4	1166 E10
3113 H6	1167 D10
3114 F8	1168 D10
3115 G8	1169 D10
3116 G8	1170 D10
3117 I7	1171 D10
3118 I8	1172 C9
3119 I8	1173 C9
3120 I8	1174 C9
3121 I8	1175 C8
3122 F9	1176 C8
3123 F9	1177 C8
3124 G9	1178 C8
3125 G9	1179 C8
3127 D13	1180 C8
3128 E13	1181 C8
3129 D12	1182 C7
3130 A10	1183 C6
3131 A10	1184 C6
3132 A11	1185 C5
3133 B11	1186 D5
3134 B12	1187 D5
3135 A10	1188 D5
3136 A11	1189 D5
3140 B2	1190 D5
3141 C1	1191 D5
3142 D1	1192 D5
3143 D1	1193 E5
3144 C3	1194 E5
3145 D3	1195 E5
3146 E2	1196 E5
3147 E2	1197 F5
3148 G7	1198 G12
3149 G7	
4100 C10	
4101 H9	
4102 G13	
6100 F2	
6101 G2	
6102 G2	
6103 G3	
6104 H2	
6105 G8	
6106 I8	
6107 H4	
6110 F2	
6111 F2	
6112 E12	
6120 E14	
7100 A6	
7101 C6	
7102 H5	
7103 I7	
7104 C2	
7105 C2	
7106 C2	
7107 E2	
7108 G10	
7110 H14	
7130 B11	
7131 B12	
7132 B12	
1100 A6	
1101 B6	
1102 A9	
1103 B9	
1104 C1	
1110 H5	
1111 H6	
1113 I7	
1114 I7	
1115 I8	
1116 G9	
1117 E2	
1118 E1	

* Components having special characteristics are marked ⚡ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

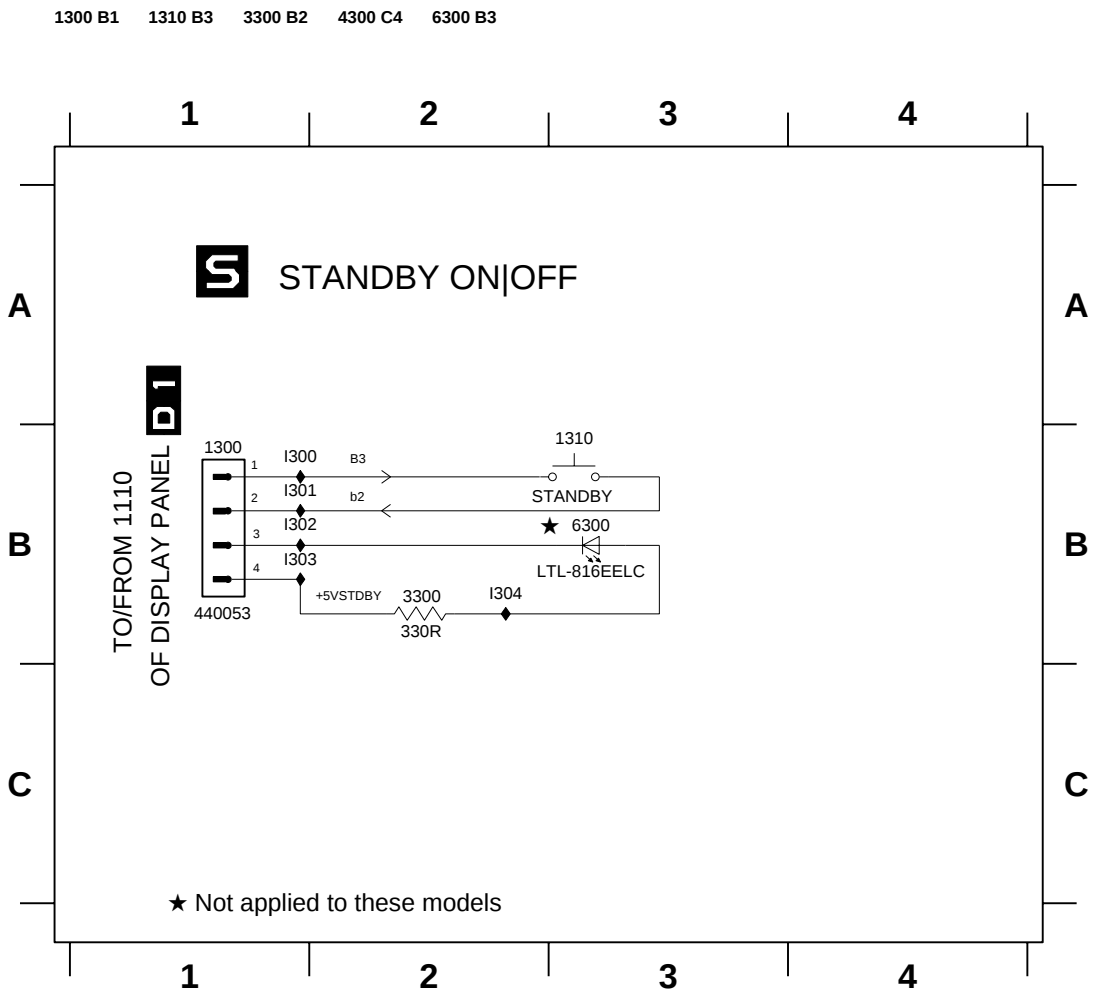
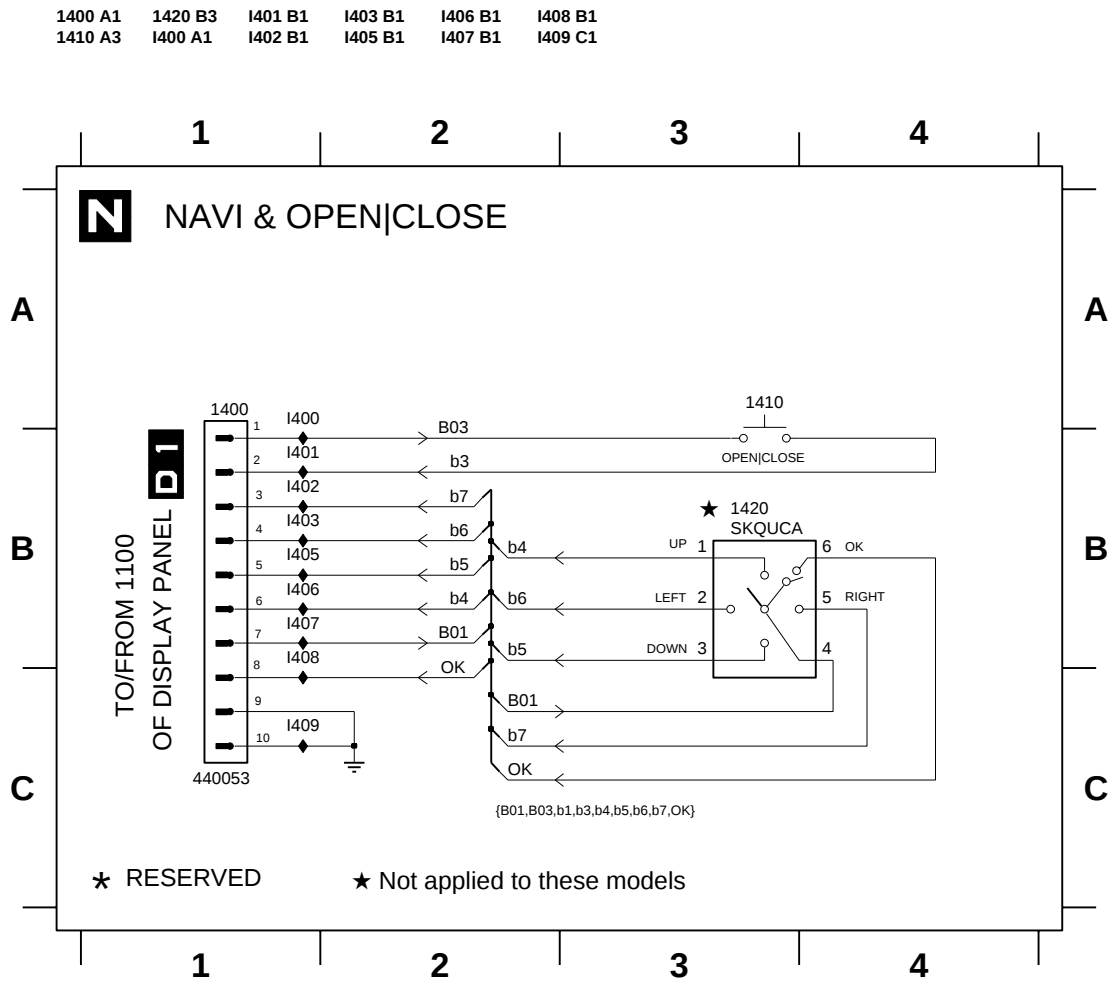
■ SCHEMATIC DIAGRAM (FRONT [1] 2/2)



* Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.

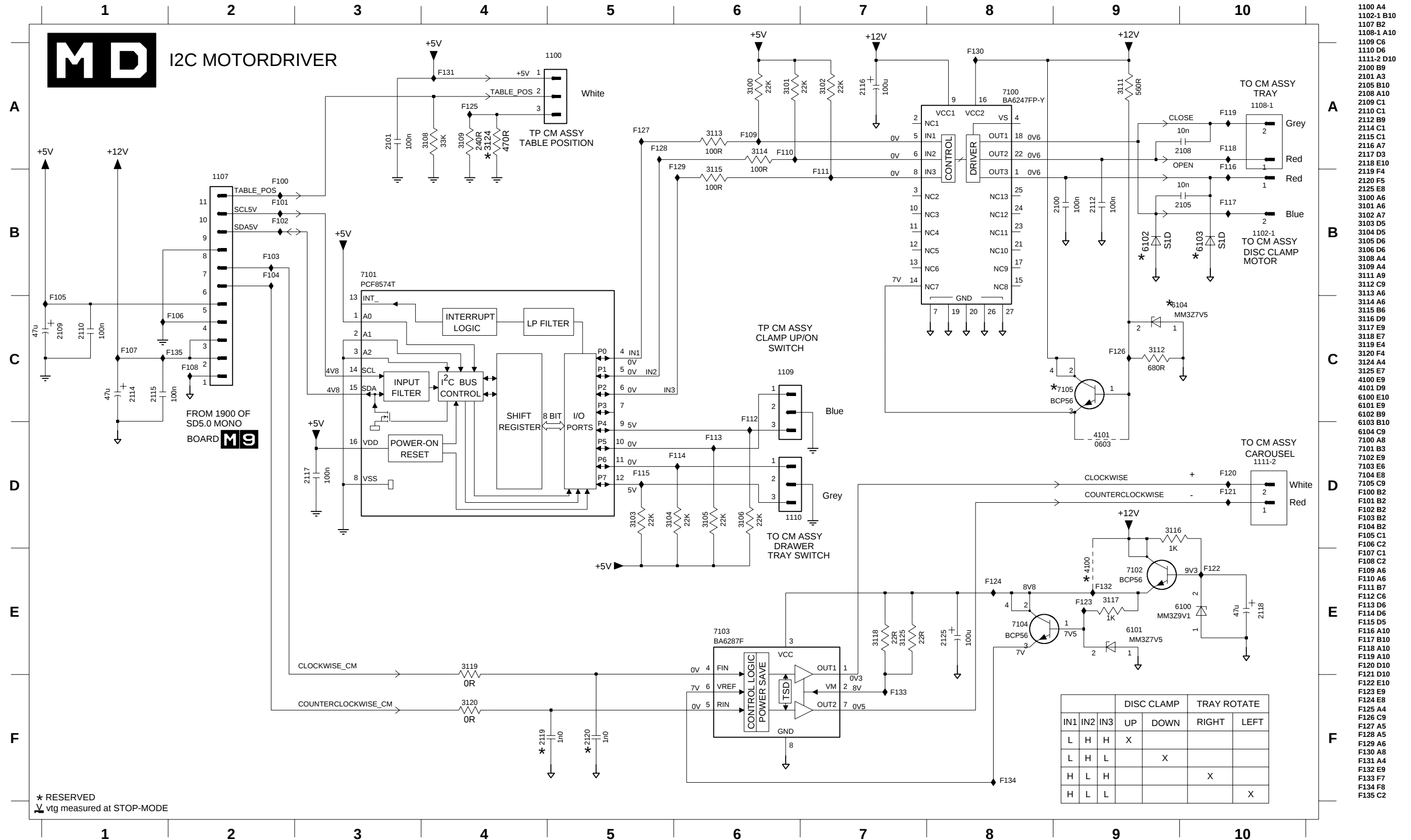
■ SCHEMATIC DIAGRAM (FRONT [2] & [3])



* Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (MOTOR DRIVER)

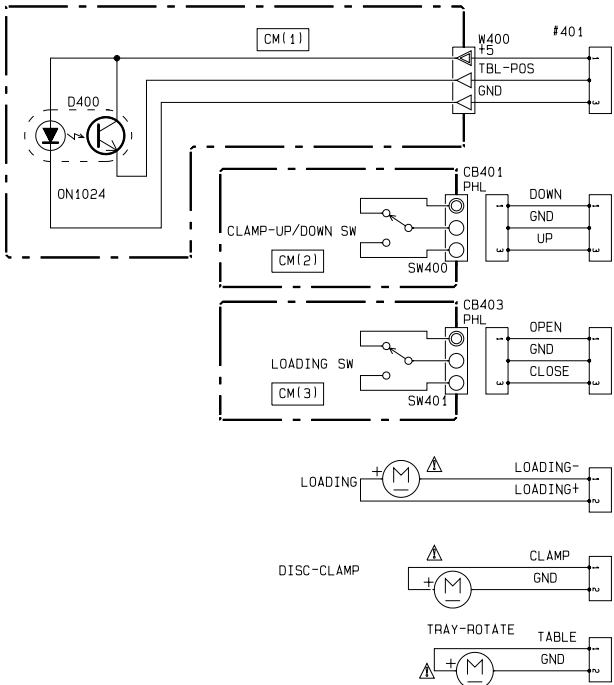


* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.

DVD-C740/DV-C6660

SCHEMATIC DIAGRAM (CM-PH1)



CAPACITOR		
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	H
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
●	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
①	MICA CAPACITOR	
⊕	POLYPROPYLENE FILM CAPACITOR	
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR	

RESISTOR	
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
▣	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▤	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

NOTICE (model)
(J)..... JAPANESE
(U)..... U. S. A
(C)..... CANADIAN
(R)..... GENERAL
(A)..... AUSTRALIAN
(B)..... BRITISH
(G)..... EUROPEAN
(T)..... CHINA
(L)..... SINGAPORE

PARTS LIST

ELECTRICAL PARTS

WARNING
Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

C.A.EL.CHP	: CHIP ALUMI. ELECTROLYTIC CAP	L.DTCT	: LIGHT DETECTING MODULE
C.CE	: CERAMIC CAP	L.EMIT	: LIGHT EMITTING MODULE
C.CE.ARRAY	: CERAMIC CAP ARRAY	LED.DSPLY	: LED DISPLAY
C.CE.CHP	: CHIP CERAMIC CAP	LED.INFRD	: LED, INFRARED
C.CE.ML	: MULTILAYER CERAMIC CAP	MODUL.RF	: MODULATOR, RF
C.CE.M.CHP	: CHIP MULTILAYER CERAMIC CAP	PHOT.CPL	: PHOTO COUPLER
C.CE.SAFTY	: RECOGNIZED CERAMIC CAP	PHOT.INTR	: PHOTO INTERRUPTER
C.CE.TUBLR	: CERAMIC TUBULAR CAP	PHOT.RFLCT	: PHOTO REFLECTOR
C.CE.SMI	: SEMI CONDUCTIVE CERAMIC CAP	PIN.TEST	: PIN, TEST POINT
C.EL	: ELECTROLYTIC CAP	PLST.RIVET	: PLASTIC RIVET
C.MICA	: MICA CAP	R.ARRAY	: RESISTOR ARRAY
C.ML.FLM	: MULTILAYER FILM CAP	R.CAR	: CARBON RESISTOR
C.MP	: METALLIZED PAPER CAP	R.CAR.CHP	: CHIP RESISTOR
C.MYLAR	: MYLAR FILM CAP	R.CAR.FP	: FLAME PROOF CARBON RESISTOR
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP	R.FUS	: FUSABLE RESISTOR
C.PAPER	: PAPER CAPACITOR	R.MTL.CHP	: CHIP METAL FILM RESISTOR
C.PLS	: POLYSTYRENE FILM CAP	R.MTL.FLM	: METAL FILM RESISTOR
C.POL	: POLYESTER FILM CAP	R.MTL.OXD	: METAL OXIDE FILM RESISTOR
C.POLY	: POLYETHYLENE FILM CAP	R.MTL.PLAT	: METAL PLATE RESISTOR
C.PP	: POLYPROPYLENE FILM CAP	RSNR.CE	: CERAMIC RESONATOR
C.TNTL	: TANTALUM CAP	RSNR.CRYS	: CRYSTAL RESONATOR
C.TNTL.CHP	: CHIP TANTALUM CAP	R.TW.CEM	: TWIN CEMENT FIXED RESISTOR
C.TRIM	: TRIMMER CAP	R.WW	: WIRE WOUND RESISTOR
CN	: CONNECTOR	SCR.BND.HD	: BIND HEAD B-TITE SCREW
CN.BS.PIN	: CONNECTOR, BASE PIN	SCR.BW.HD	: BW HEAD TAPPING SCREW
CN.CANNON	: CONNECTOR, CANNON	SCR.CUP	: CUP TITE SCREW
CN.DIN	: CONNECTOR, DIN	SCR.TERM	: SCREW TERMINAL
CN.FLAT	: CONNECTOR, FLAT CABLE	SCR.TR	: SCREW, TRANSISTOR
CN.POST	: CONNECTOR, BASE POST	SUPRT.PCB	: SUPPORT, P.C.B.
COIL.MX.AM	: COIL, AM MIX	SURG.PRTCT	: SURGE PROTECTOR
COIL.AT.FM	: COIL, FM ANTENNA	SW.TACT	: TACT SWITCH
COIL.DT.FM	: COIL, FM DETECT	SW.LEAF	: LEAF SWITCH
COIL.MX.FM	: COIL, FM MIX	SW.LEVER	: LEVER SWITCH
COIL.OUTPT	: OUTPUT COIL	SW.MICRO	: MICRO SWITCH
DIOD.ARRAY	: DIODE ARRAY	SW.PUSH	: PUSH SWITCH
DIODE.BRG	: DIODE BRIDGE	SW.RT.ENC	: ROTARY ENCODER
DIODE.CHP	: CHIP DIODE	SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
DIODE.SHOT	: SCHOTTKY BARRIER DIODE	SW.RT	: ROTARY SWITCH
DIODE.VAR	: VARACTOR DIODE	SW.SLIDE	: SLIDE SWITCH
DIOD.Z.CHP	: CHIP ZENER DIODE	TERM.SP	: SPEAKER TERMINAL
DIODE.ZENR	: ZENER DIODE	TERM.WRAP	: WRAPPING TERMINAL
DSCR.CE	: CERAMIC DISCRIMINATOR	THRMST.CHP	: CHIP THERMISTOR
FER.BEAD	: FERRITE BEADS	TR.CHP	: CHIP TRANSISTOR
FER.CORE	: FERRITE CORE	TR.DGT	: DIGITAL TRANSISTOR
FET.CHP	: CHIP FET	TR.DGT.CHP	: CHIP DIGITAL TRANSISTOR
FL.DSPLY	: FLUORESCENT DISPLAY	TRANS	: TRANSFORMER
FLTR.CE	: CERAMIC FILTER	TRANS.PULS	: PULSE TRANSFORMER
FLTR.COMB	: COMB FILTER MODULE	TRANS.PWR	: POWER TRANSFORMER ASS'y
FLTR.LC.RF	: LC FILTER ,EMI	TUNER.AM	: TUNER PACK, AM
GND.MTL	: GROUND PLATE	TUNER.FM	: TUNER PACK, FM
GND.TERM	: GROUND TERMINAL	TUNER.PK	: FRONT-END TUNER PACK
HOLDER.FUS	: FUSE HOLDER	VR	: ROTARY POTENTIOMETER
IC.PRTCT	: IC PROTECTOR	VR.MTR	: POTENTIOMETER WITH MOTOR
JUMPER.CN	: JUMPER CONNECTOR	VR.SW	: POTENTIOMETER WITH ROTARY SW
JUMPER.TST	: JUMPER, TEST POINT	VR.SLIDE	: SLIDE POTENTIOMETER
		VR.TRIM	: TRIMMER POTENTIOMETER

Note) Those parts marked with “#” are not included in the P.C.B. ass'y.

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* Schematic diagram is subject to change without notice.