

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.

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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

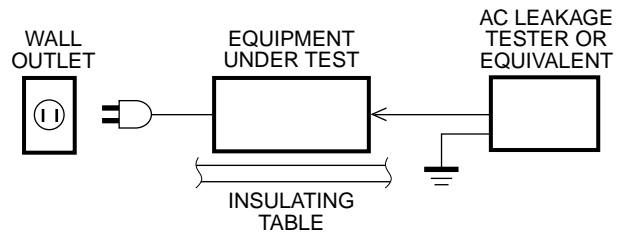
1. Critical Components Information

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 0.15 μ F.
- 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.

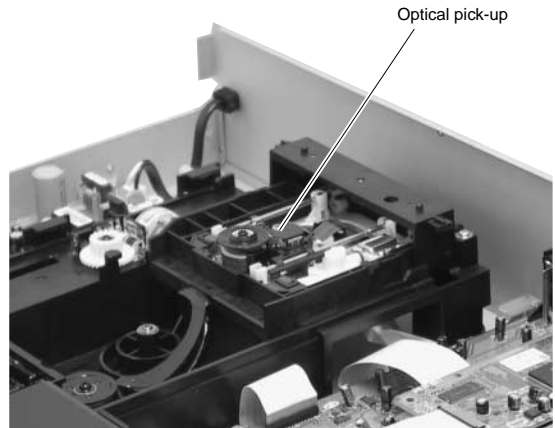
- 1) When testing and/or repairing any component within the product, keep your eyes and skin more than 30 cm away from the laser pick-up unit at all times. Do not stare at the laser beam at any time.
- 2) Do not attempt to readjust, disassemble or repair the laser pick-up, unless noted elsewhere in this 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.

WARNING! : 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
ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

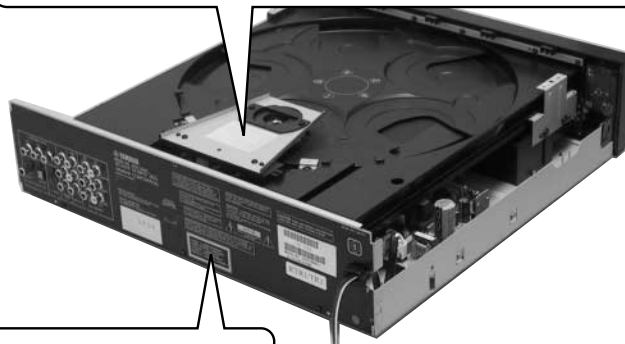
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR
DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN

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



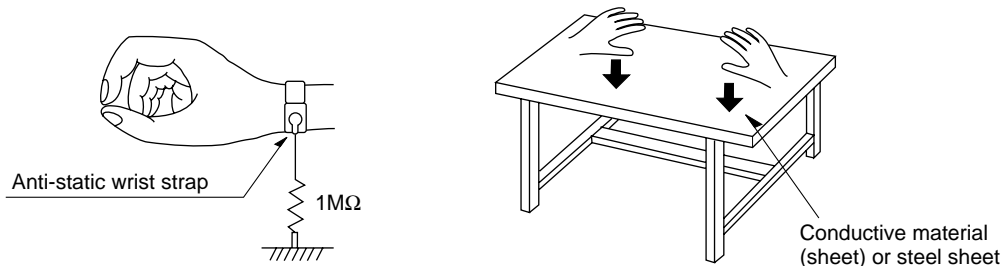
CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
PRODUIT LASER DE CLASSE 1

■ 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.

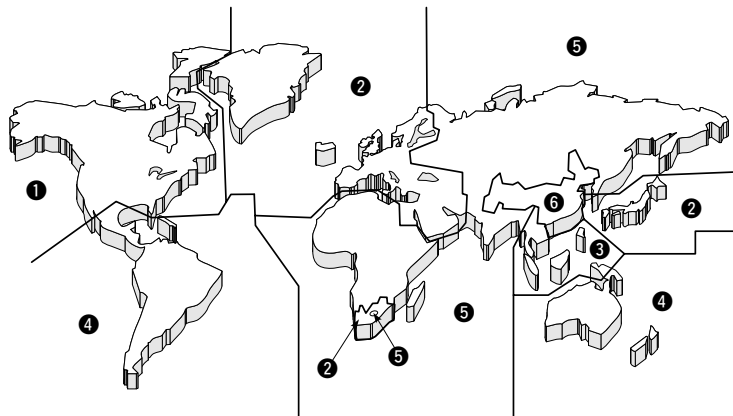
3. Handling Precautions for the Traverse Unit (Optical Pickup)

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

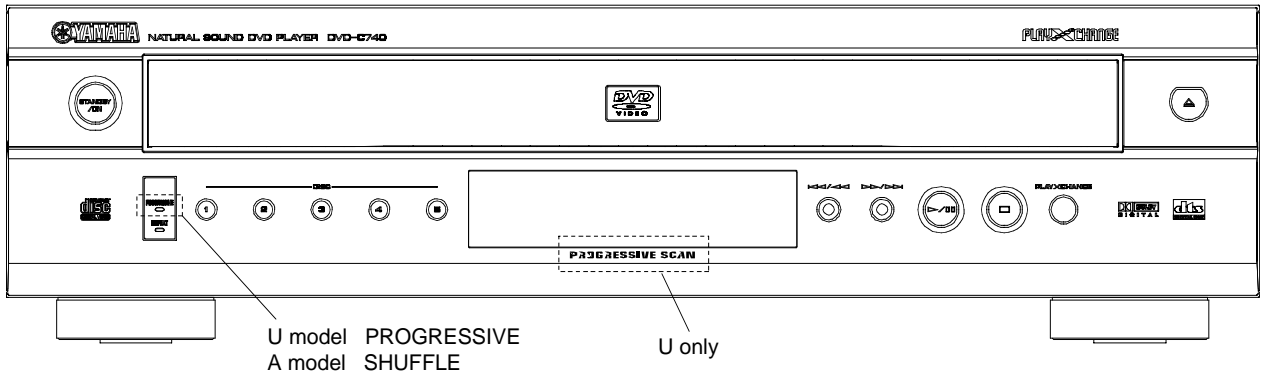
Locale Management Information : This DVD player is designed and manufactured to respond to the Locale Management Information that is recorded on a DVD disc. If the Locale number described on the DVD disc does not correspond to the Locale number of this DVD player, this DVD player cannot play this disc.

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.

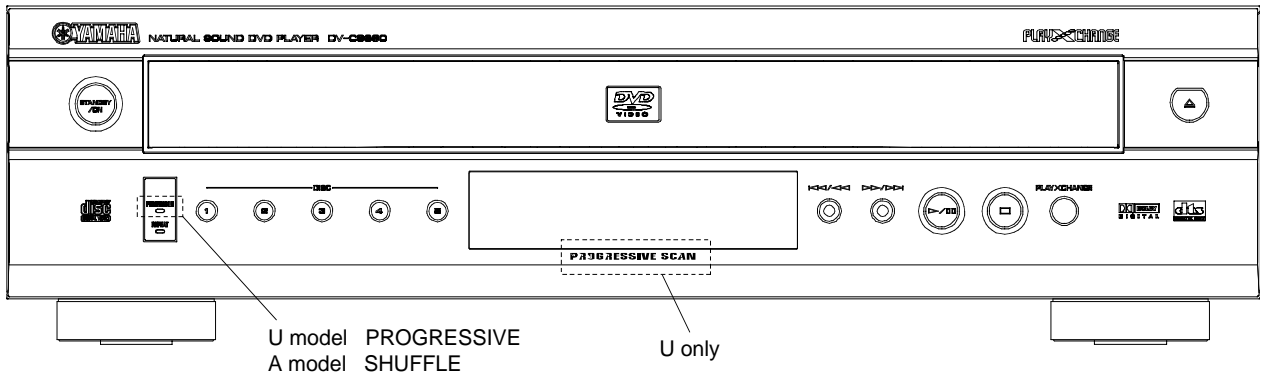


FRONT PANELS

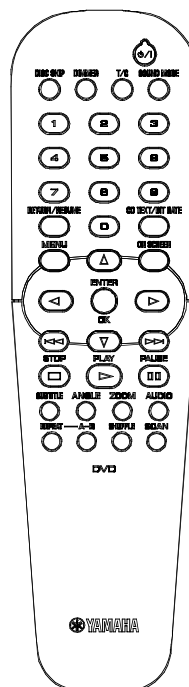
▼ DVD-C740 (U, A models)



▼ DV-C6660 (U, A models)

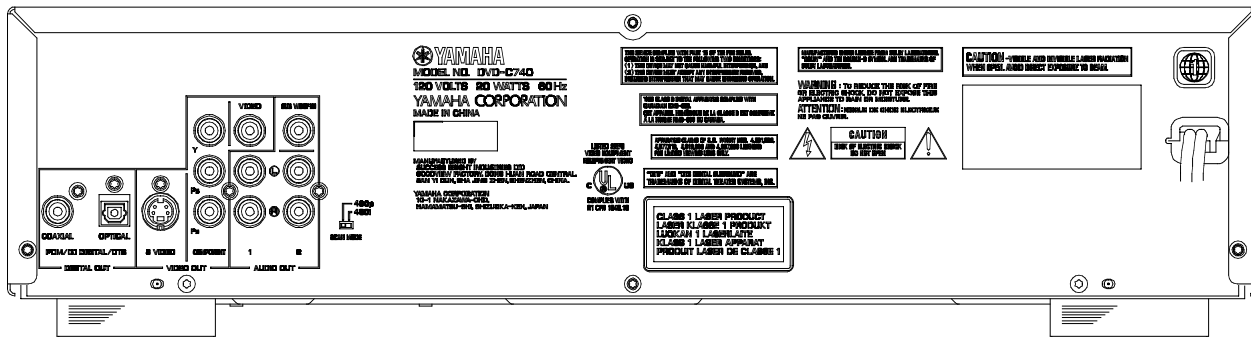


● DVD-C740/DV-C6660

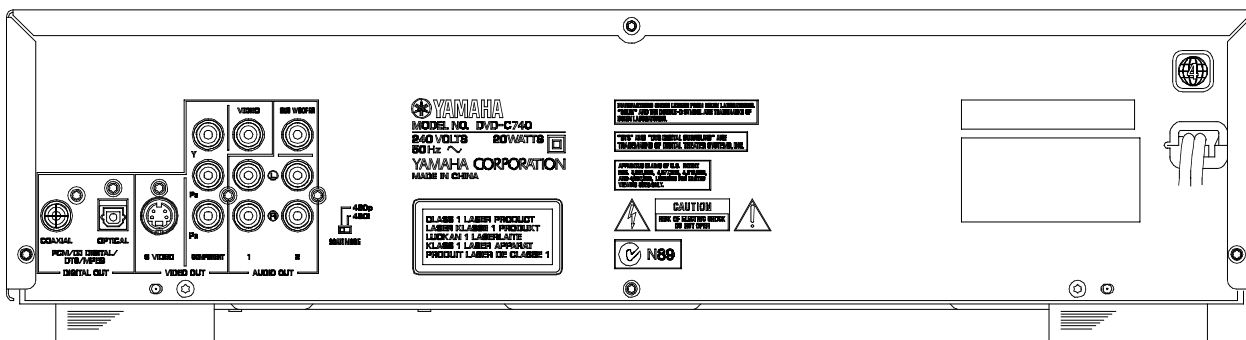


REAR PANELS

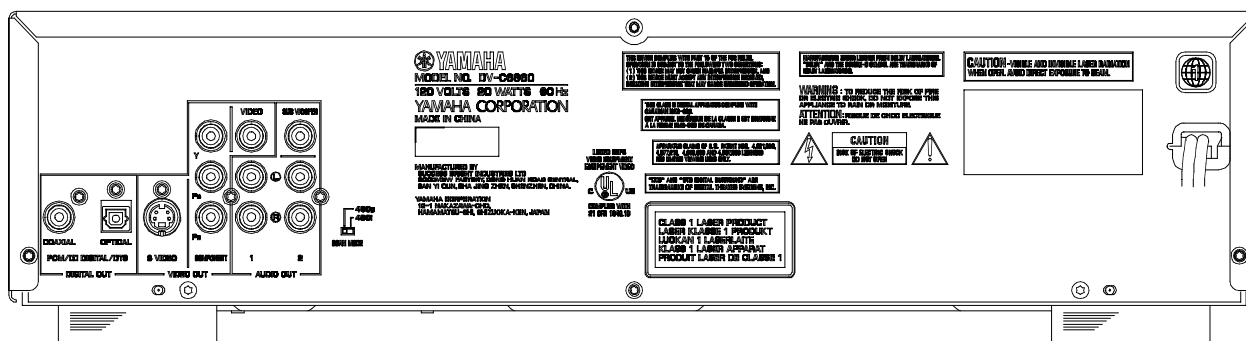
▼ DVD-C740 U model



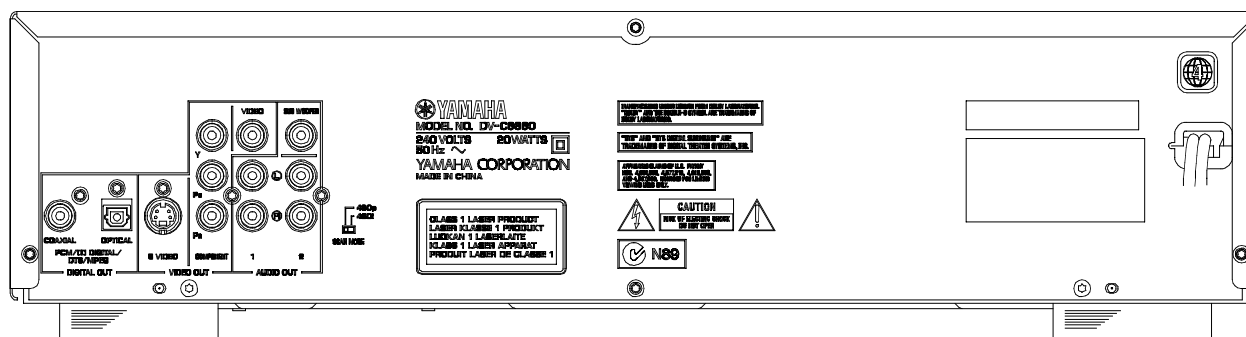
▼ DVD-C740 A model



▼ DV-C6660 U model



▼ DV-C6660 A model



DVD-C740 / DV-C6660

■ 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 (Joliet)	96, 112, 128, 256 kbps and 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.

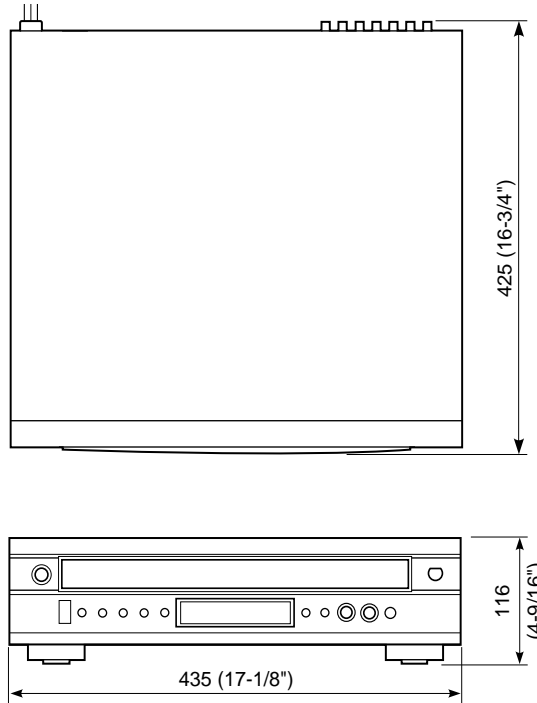


"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.



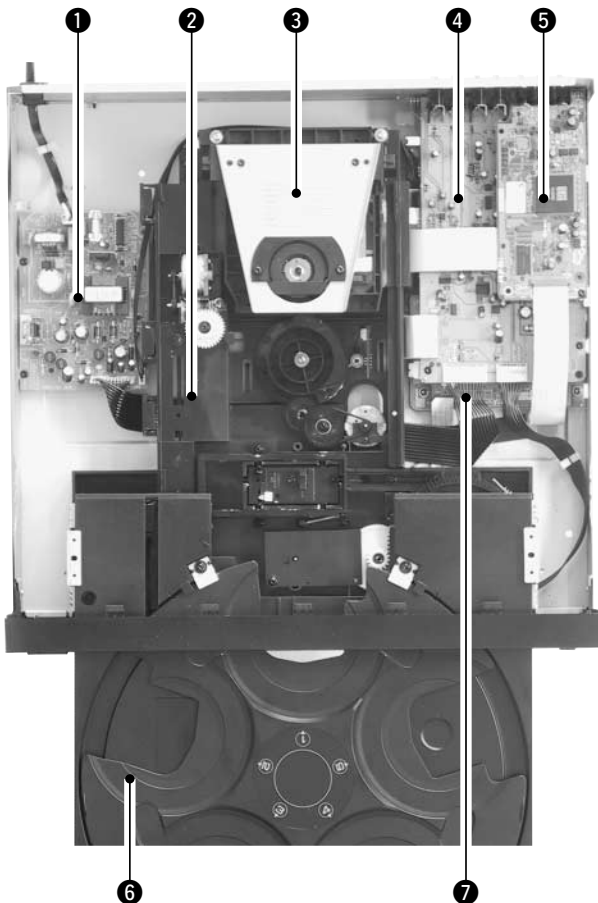
"DCDi" is a trademark of Faroudja, a division of Sage Inc.

■ DIMENSIONS



Unit : mm (inch)

■ INTERNAL VIEW

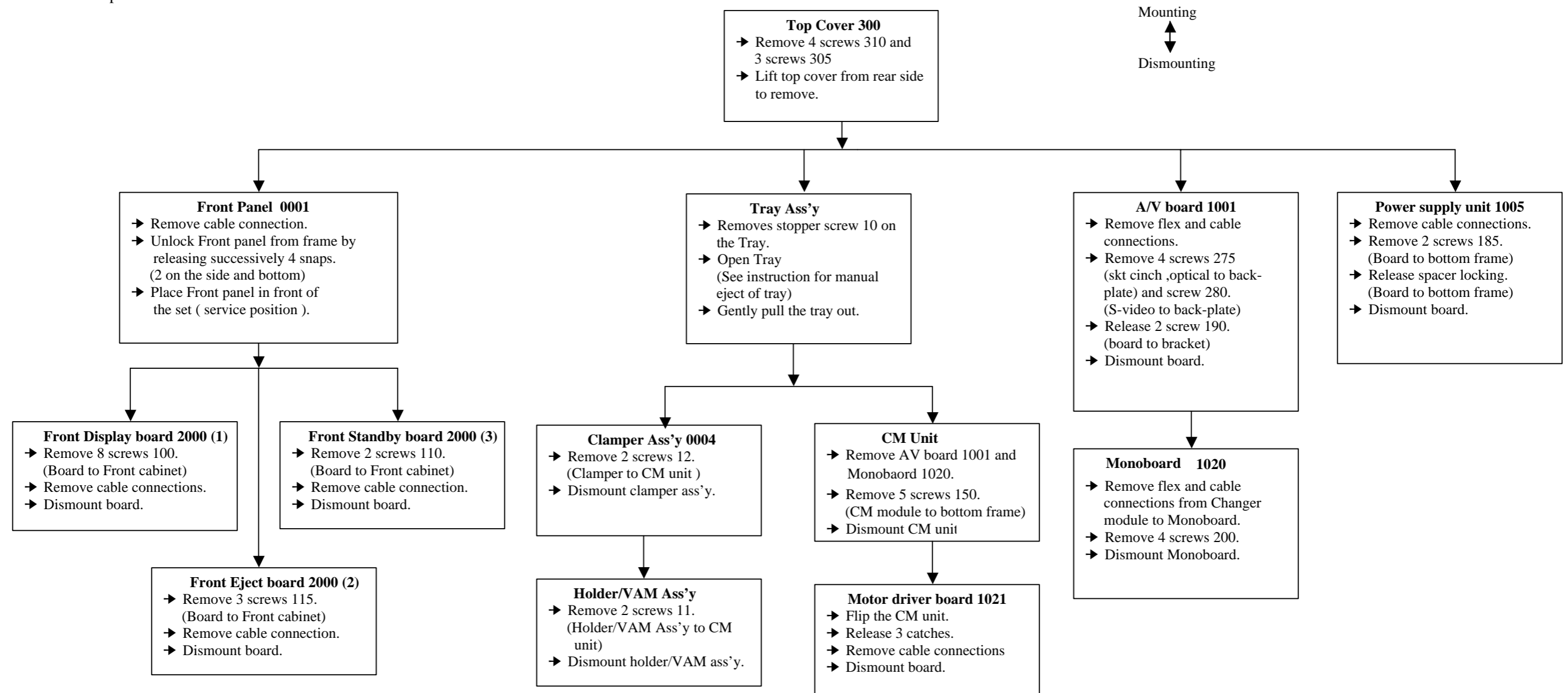


- ❶ POWER SUPPLY UNIT
- ❷ CM UNIT
- ❸ CLAMPER ASS'Y
- ❹ AV P.C.B.
- ❺ Not applied to these models
- ❻ TRAY ASS'Y
- ❼ MONOBOARD P.C.B.




DVD-C740
/DV-C6660

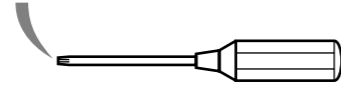
■ DISASSEMBLY PROCEDURES

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.

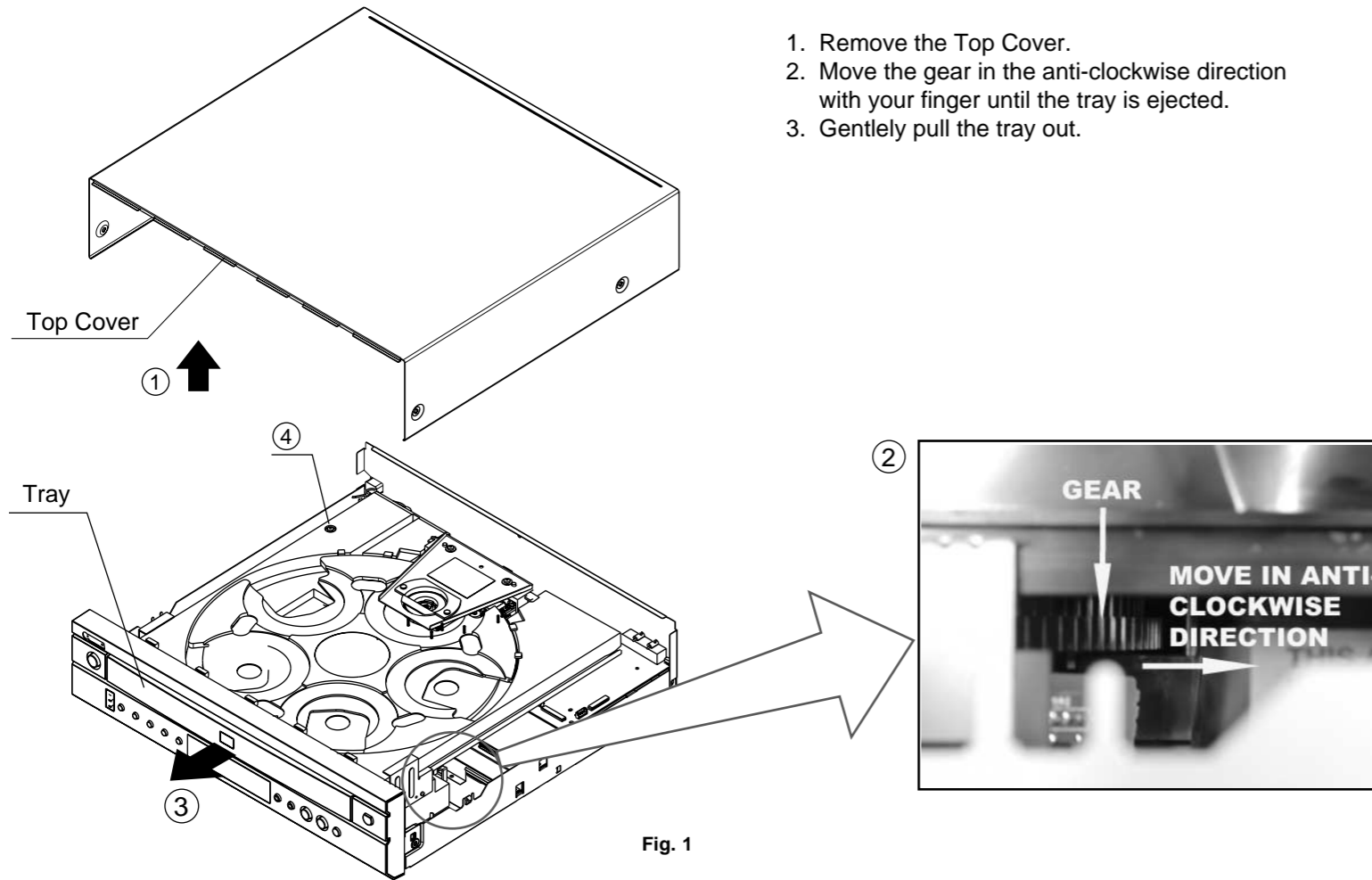


Fig. 1

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.

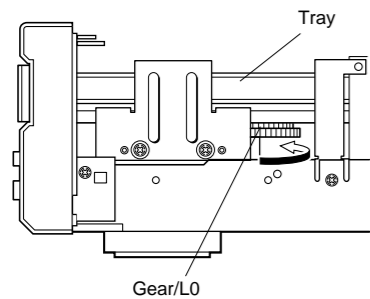


Fig. 2

● Precaution for installation of the Tray Ass'y.

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

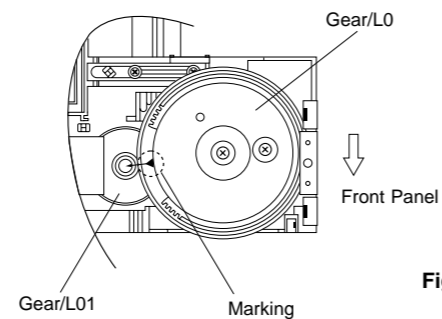


Fig. A

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.

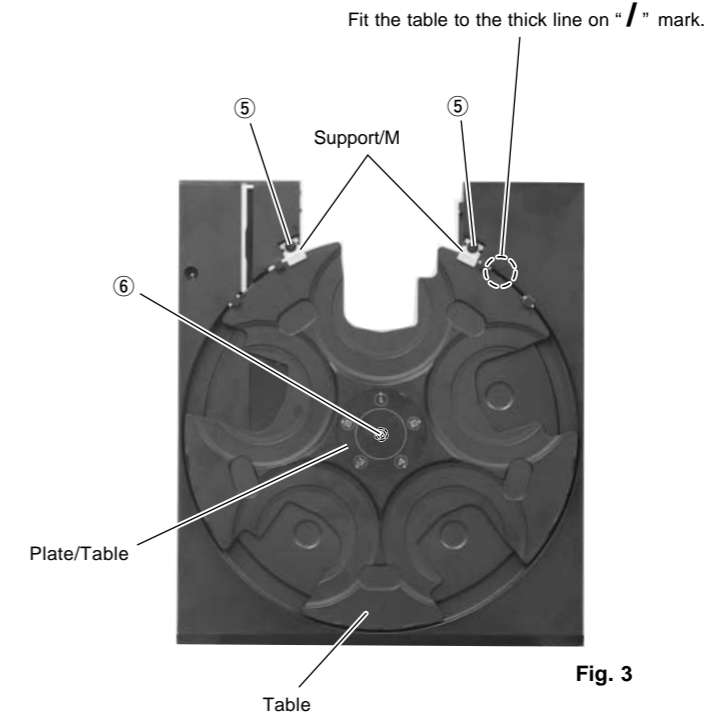


Fig. 3

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.

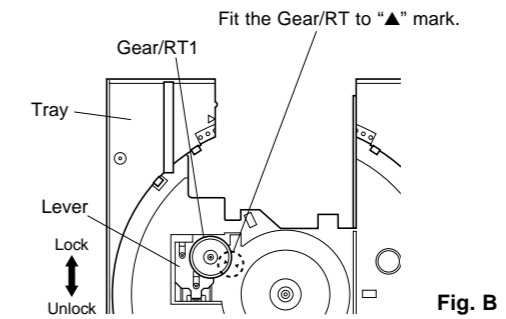


Fig. B

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

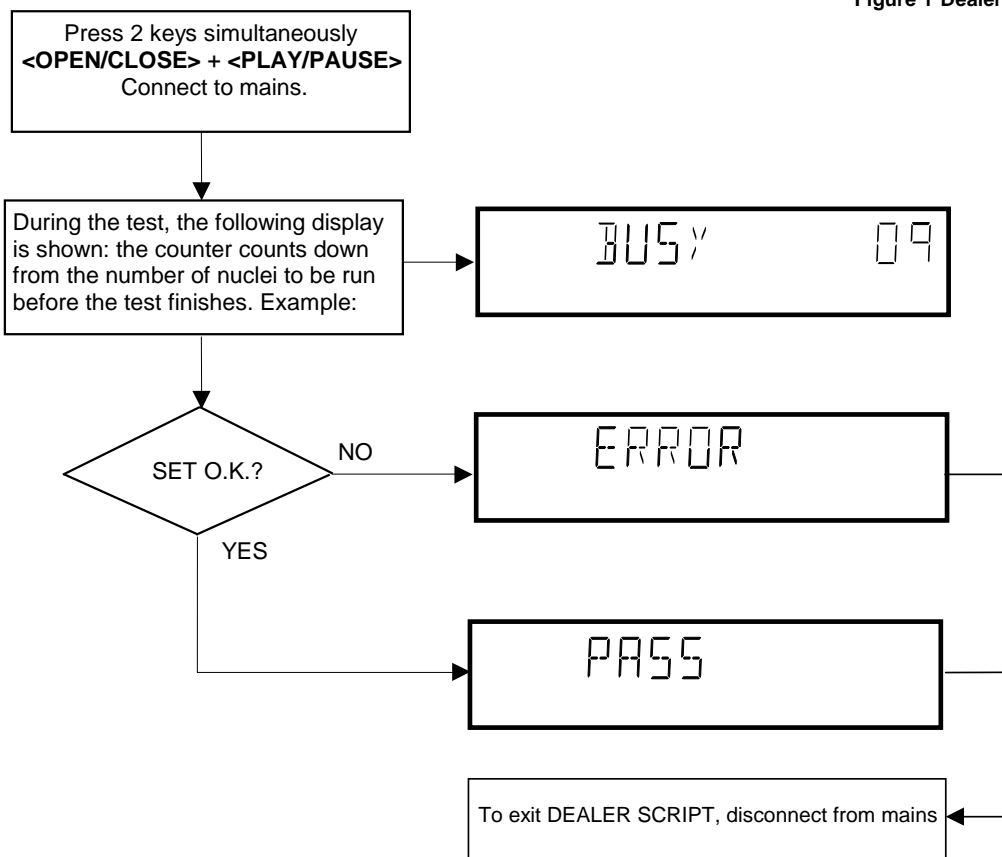


Figure 2 Dealer Script

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:

- 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.
- 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	ChangerI2cExp
Papl2cNvram	Papl2cLedIOExp
CompSdramWrR	FURORERSdramWrRLow
PapS2bEcho	PapNvramWrR
Papl2cDisp	

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:

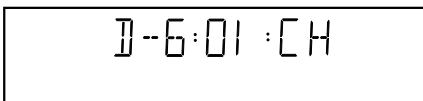


Figure 3

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:

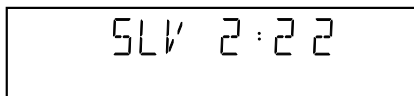


Figure 4

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

5.2.4 Survey

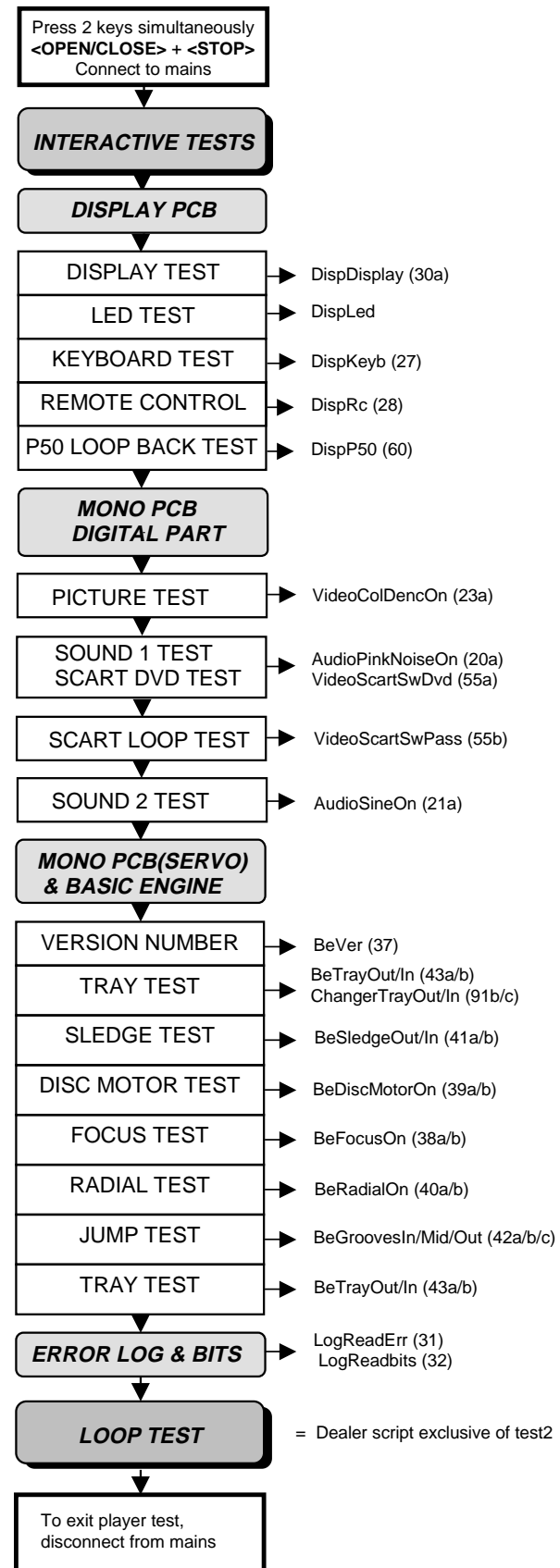


Figure 5

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).

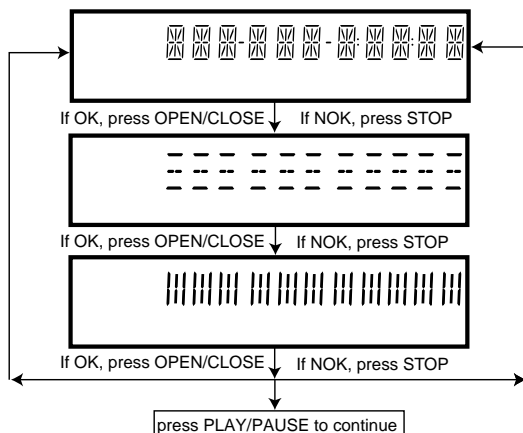


Figure 6

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:

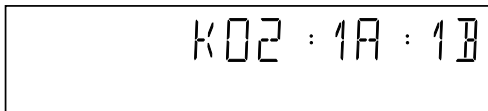


Figure 7

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:

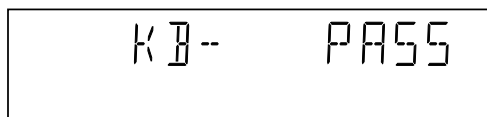


Figure 9

Or

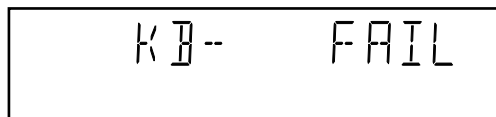


Figure 10

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:

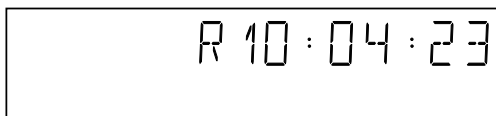


Figure 11

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:

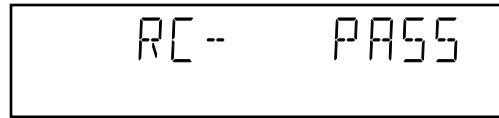


Figure 13

Or

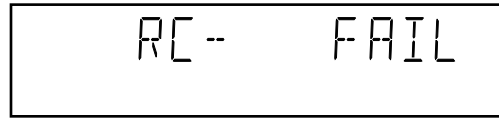


Figure 14

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:

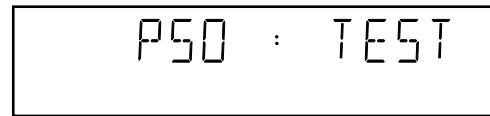


Figure 15

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:

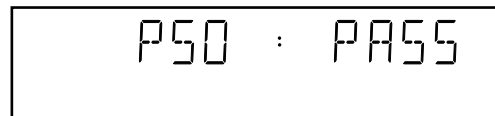


Figure 16

Test fails:

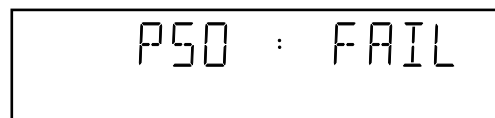


Figure 17

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:

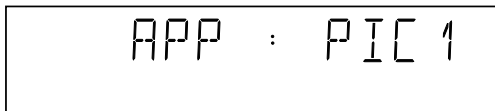


Figure 18

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:

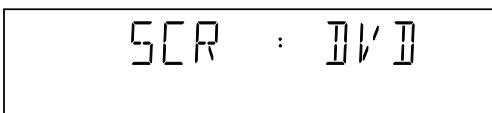


Figure 19

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:

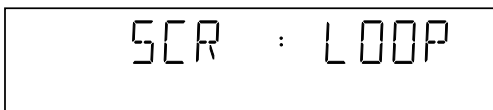


Figure 20

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:

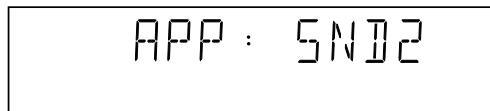


Figure 21

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:

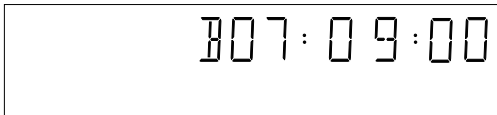


Figure 22

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:

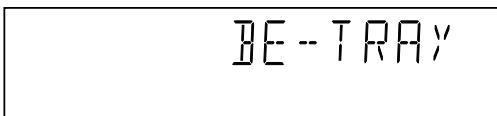


Figure 23

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:

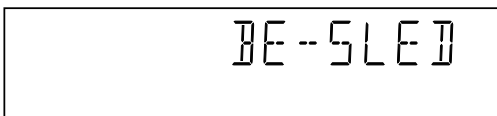


Figure 24

5.4 Disc Motor Test (Visual Test)

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

The local display looks as follows:

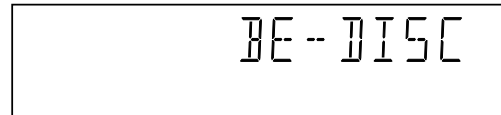


Figure 25

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:

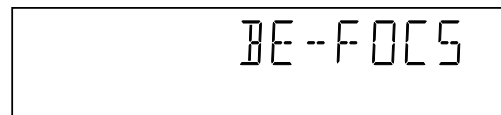


Figure 26

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:

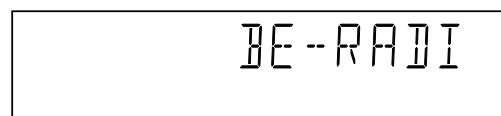


Figure 27

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:

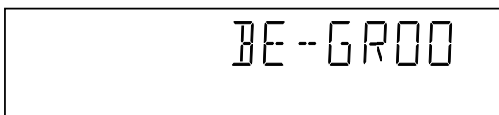


Figure 28

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:

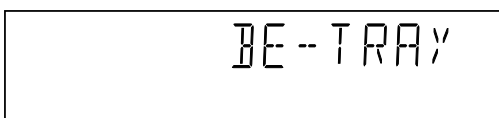


Figure 29

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 :

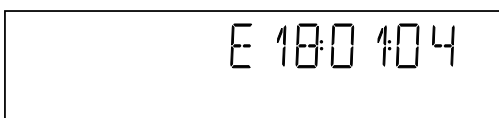


Figure 30

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:

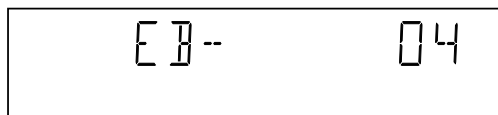


Figure 31

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:

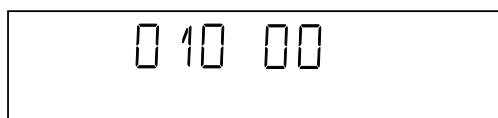


Figure 32

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.

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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 acces 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

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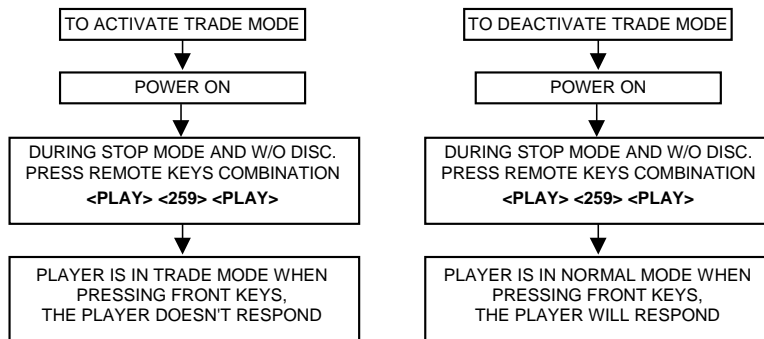
Error Code	Error name	Explanation
0008	SP_CONTINUITYERROR	Sequence of sectors coming from disc is incorrect. Reason: see SP_SYNCERROR
0009	DMX_CONTINUITYERROR	Sequence of sectors is incorrect. Reason: problem with buffer RAM
000A	LLD_ERROR	An illegal audio format was offered to the decoder. Reason: unknown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

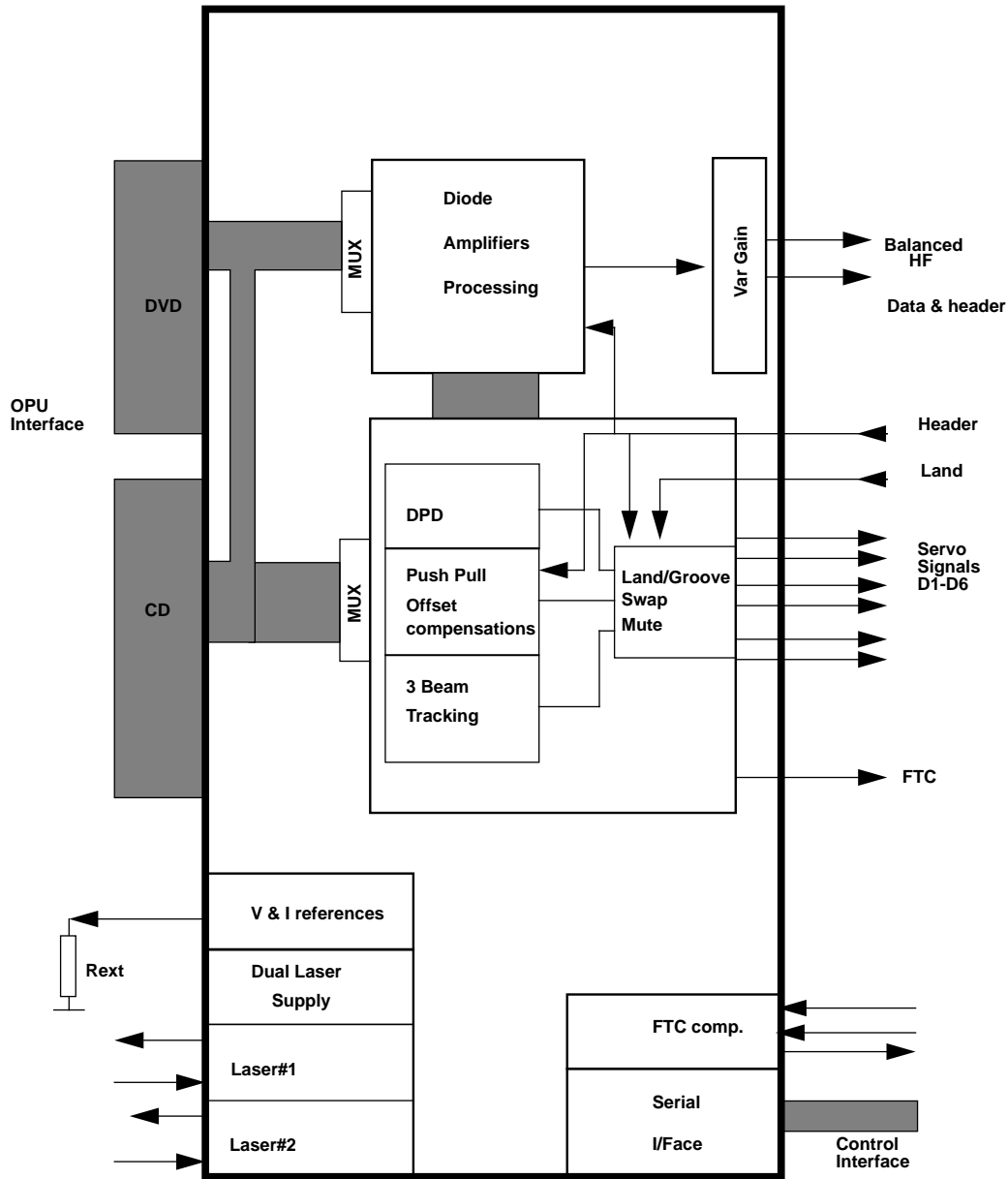
Note: To activate and deactivate the Trade Mode with the disc in the player, the procedure is similar to above, except that the remote control keys combination is pressed at the instant when the local display is flashing "READING"

■ IC DATA

DVDALAS2plus Advanced Analog DVD
Signal Processor and Laser Supply

TZA1033

DEVICE BLOCK DIAGRAM



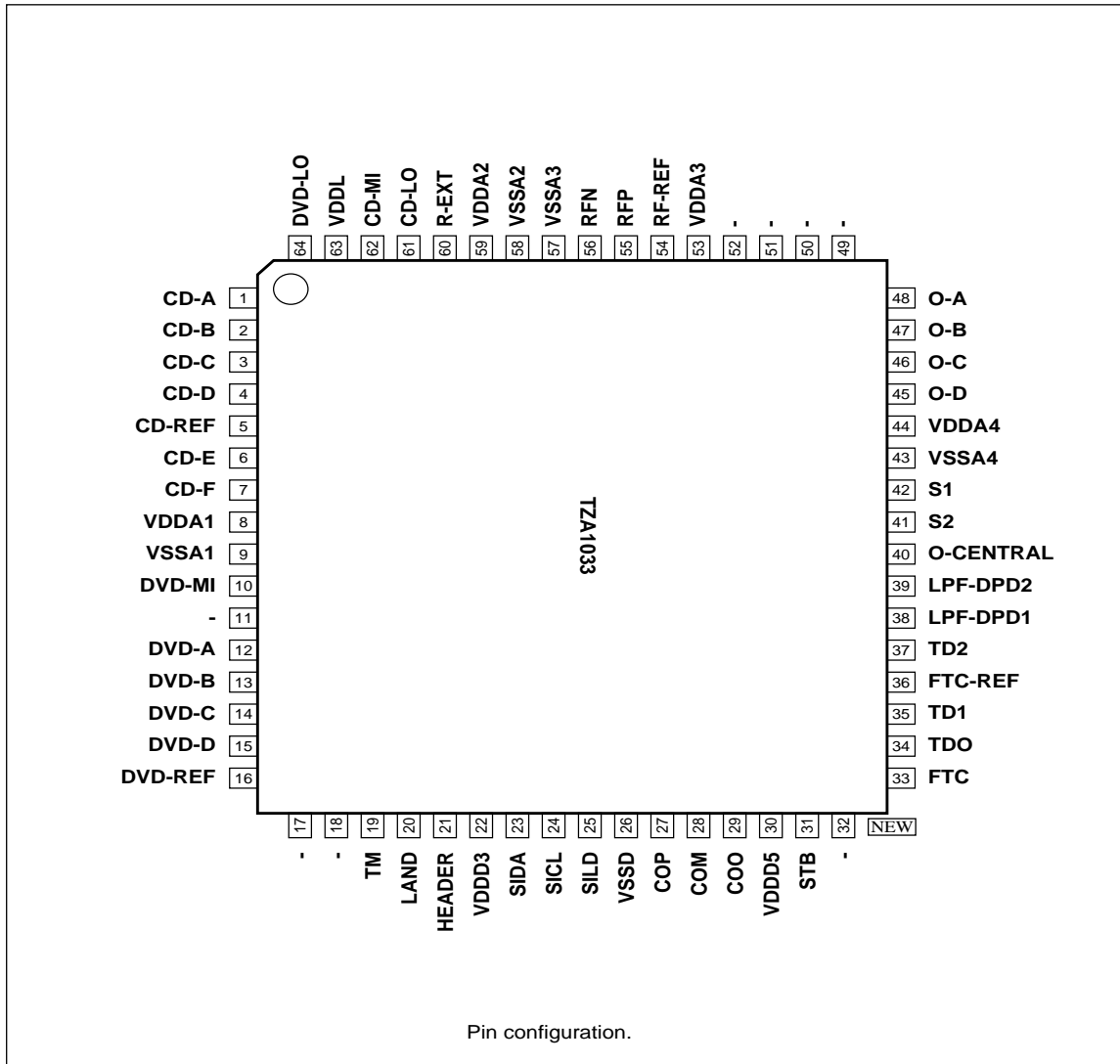
TZA1033 Device Block Diagram (item 7100)

DVD-C740 /DV-C6660

DVDALAS2plus Advanced Analog DVD
Signal Processor and Laser Supply

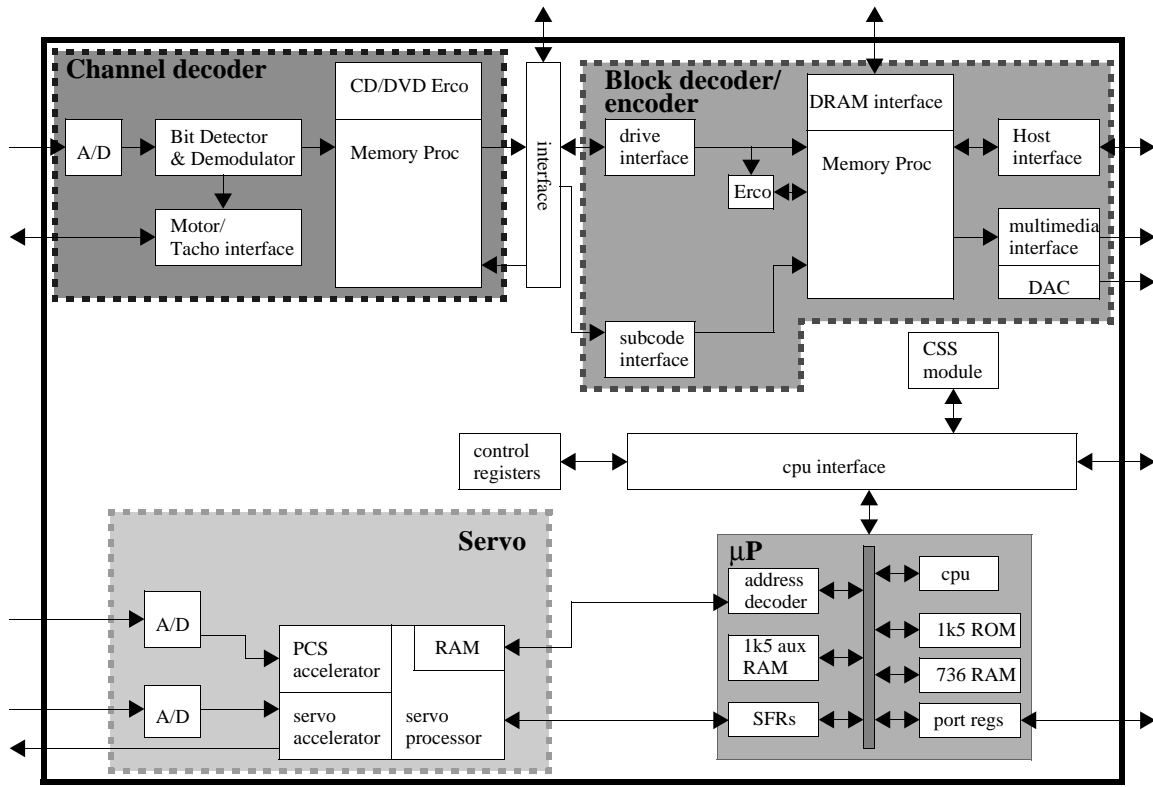
TZA1033

PIN COFIGURATION



TZA1033 Pins (item 7100)

Diagram M2



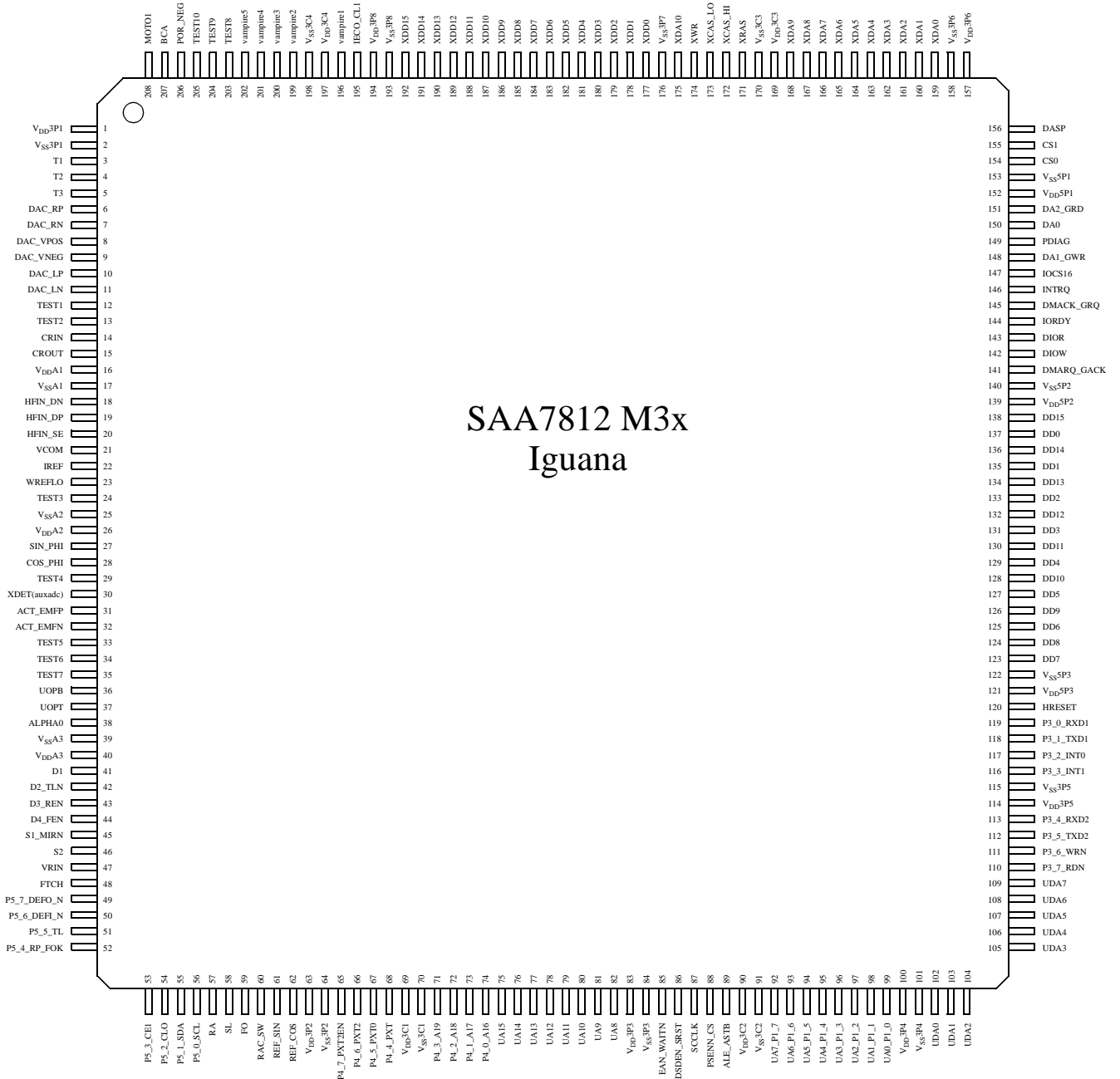
Functional Block Diagram

SAA7812 HL Block Diagram (item 7200)

DVD-C740 /DV-C6660

Front-end Processor

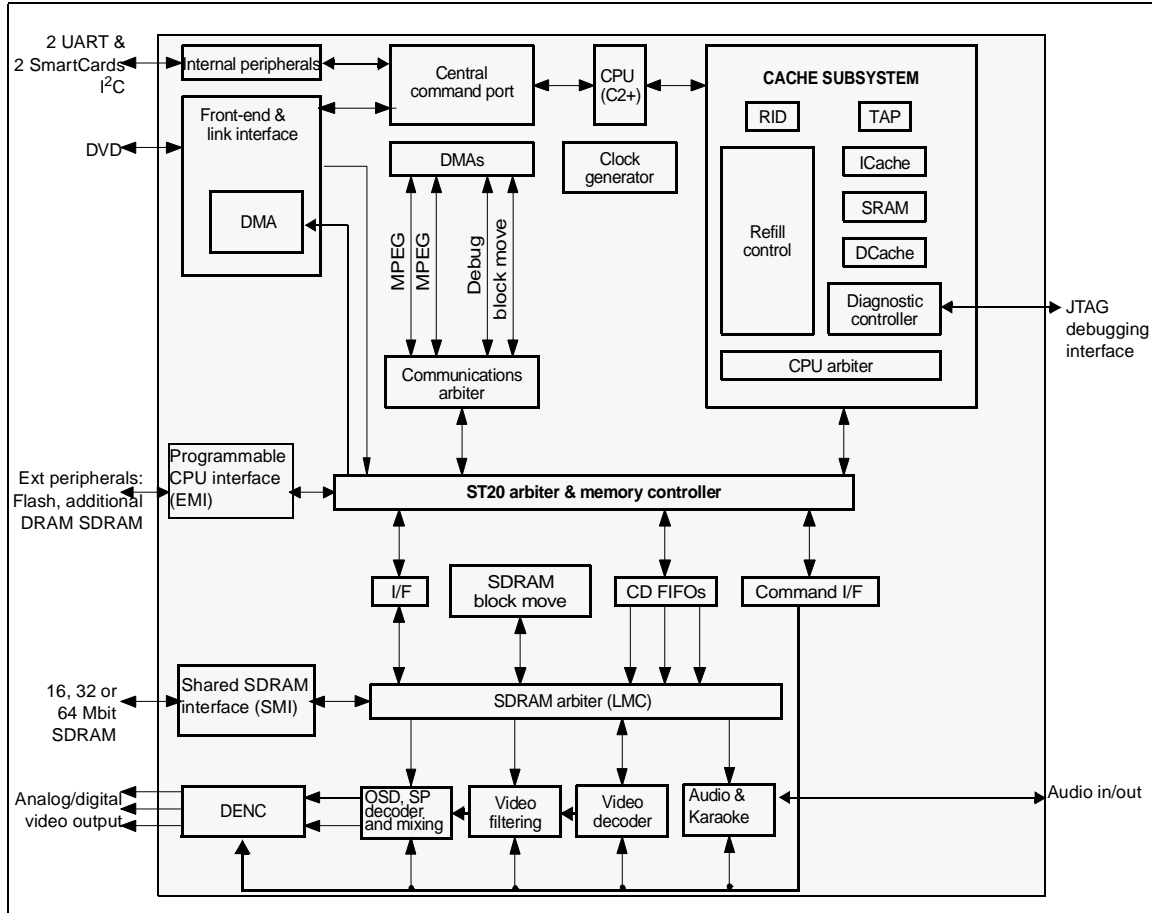
SAA7812HL



Pin Diagram
SAA7812HL Pins (item 7200)

DVD-C740
/DV-C6660

Diagram M6

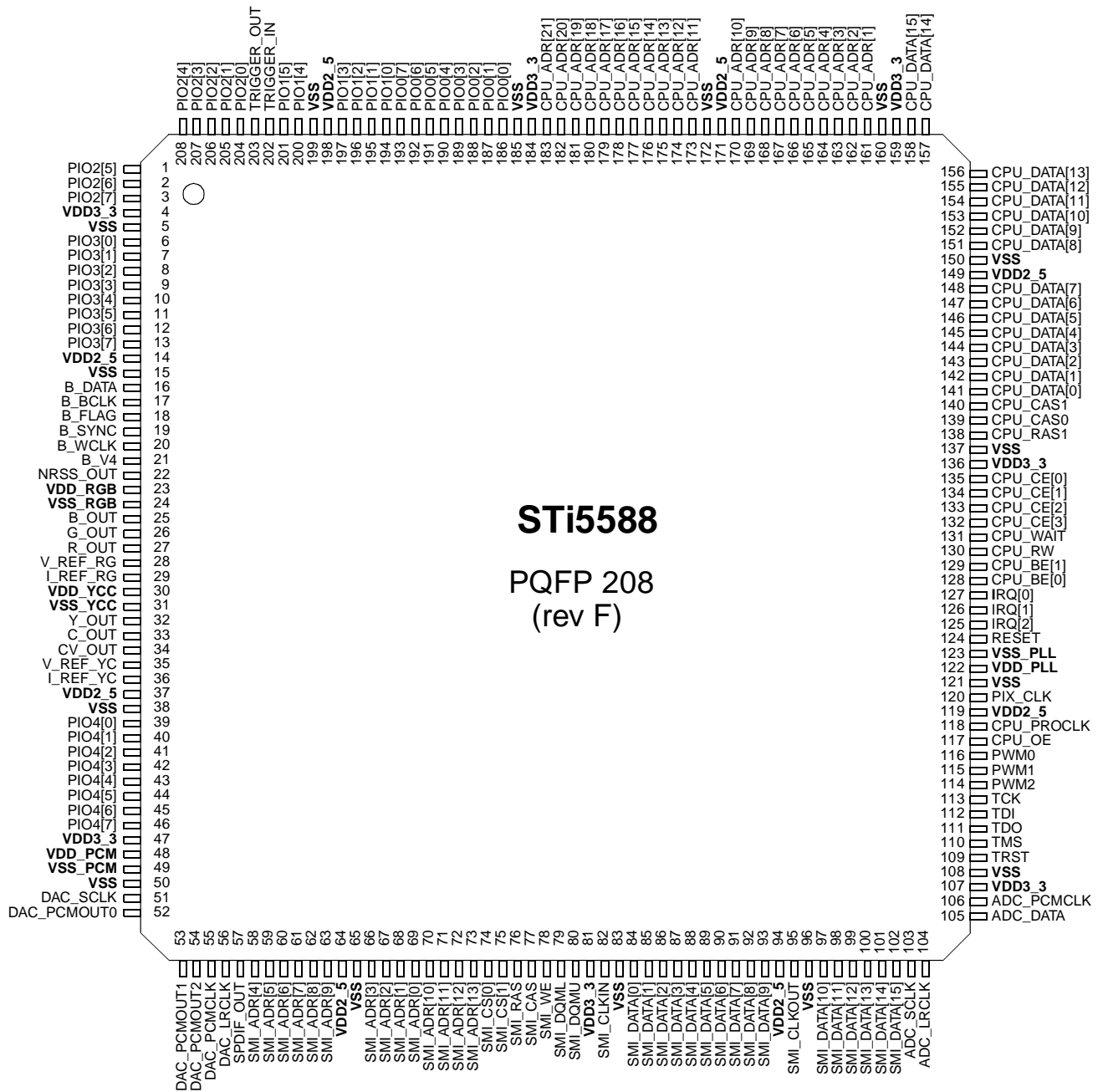


STi5588 Block Diagram (item 7600)

DVD-C740 / DV-C6660

Back-end Host Processor

STi5588

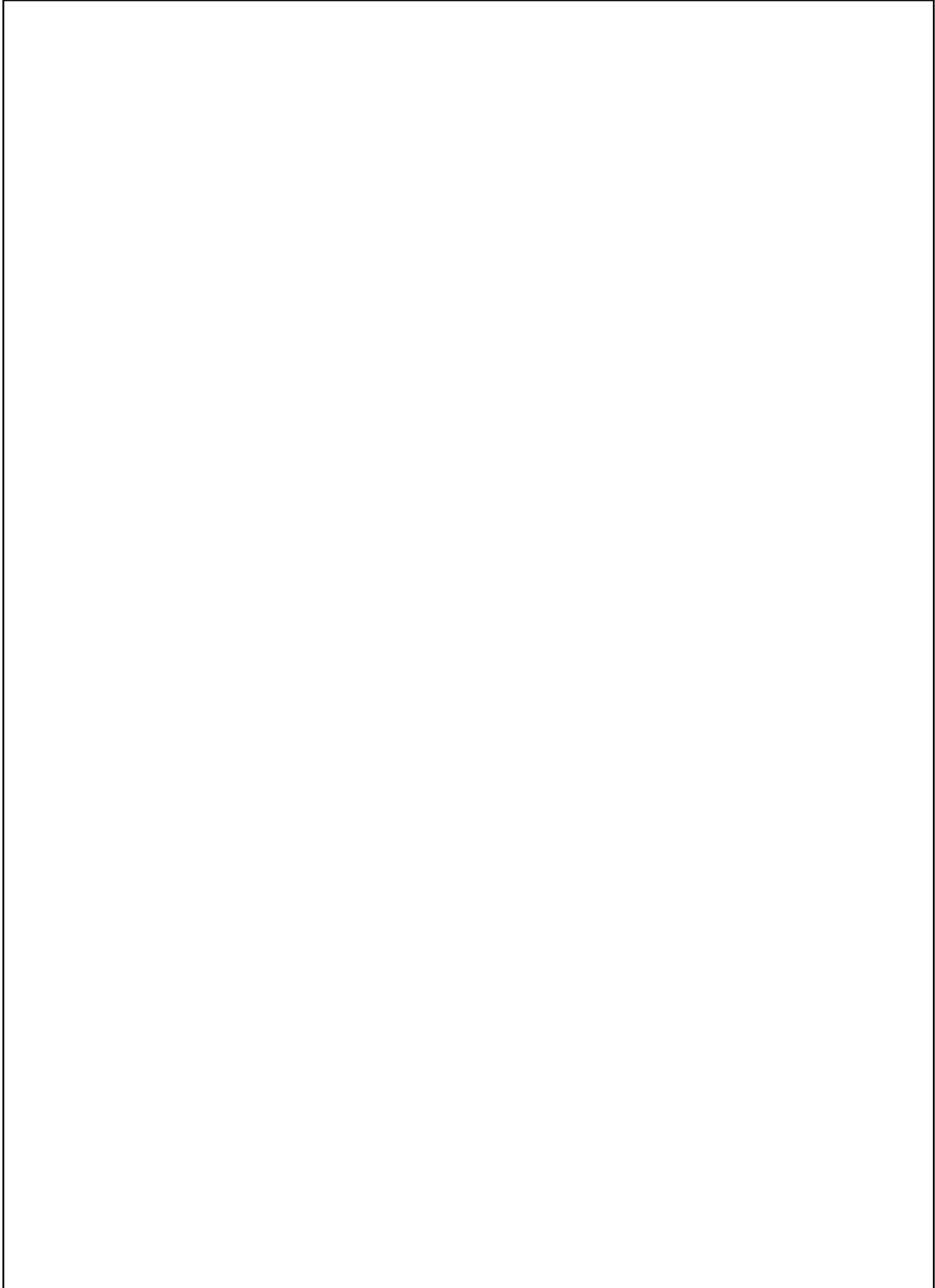


STi5588
PQFP 208
(rev F)

STi5588 Pins (item 7600)

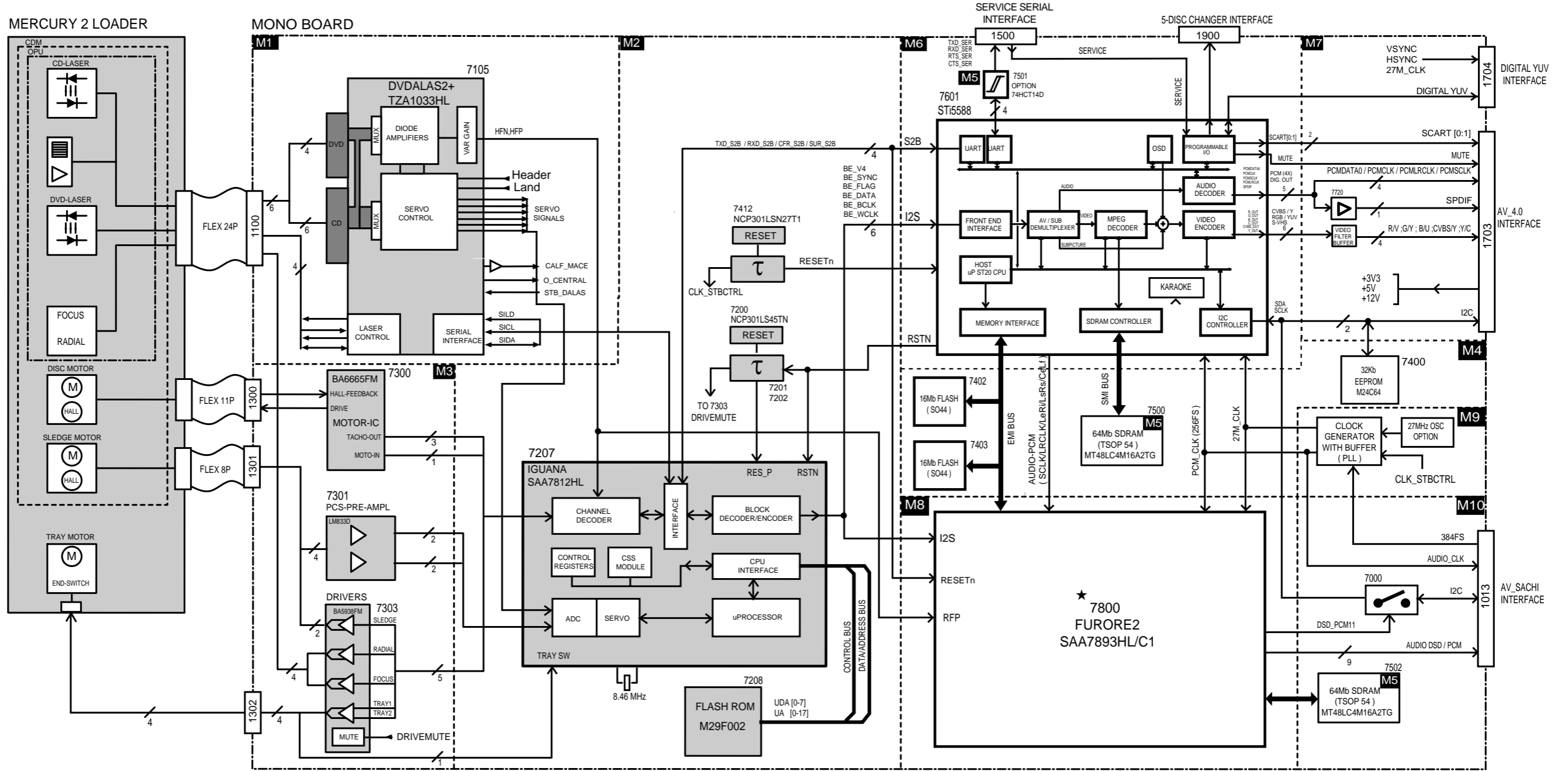
DVD-C740
 /DV-C6660

MEMO



DVD-C740
/DV-C6660

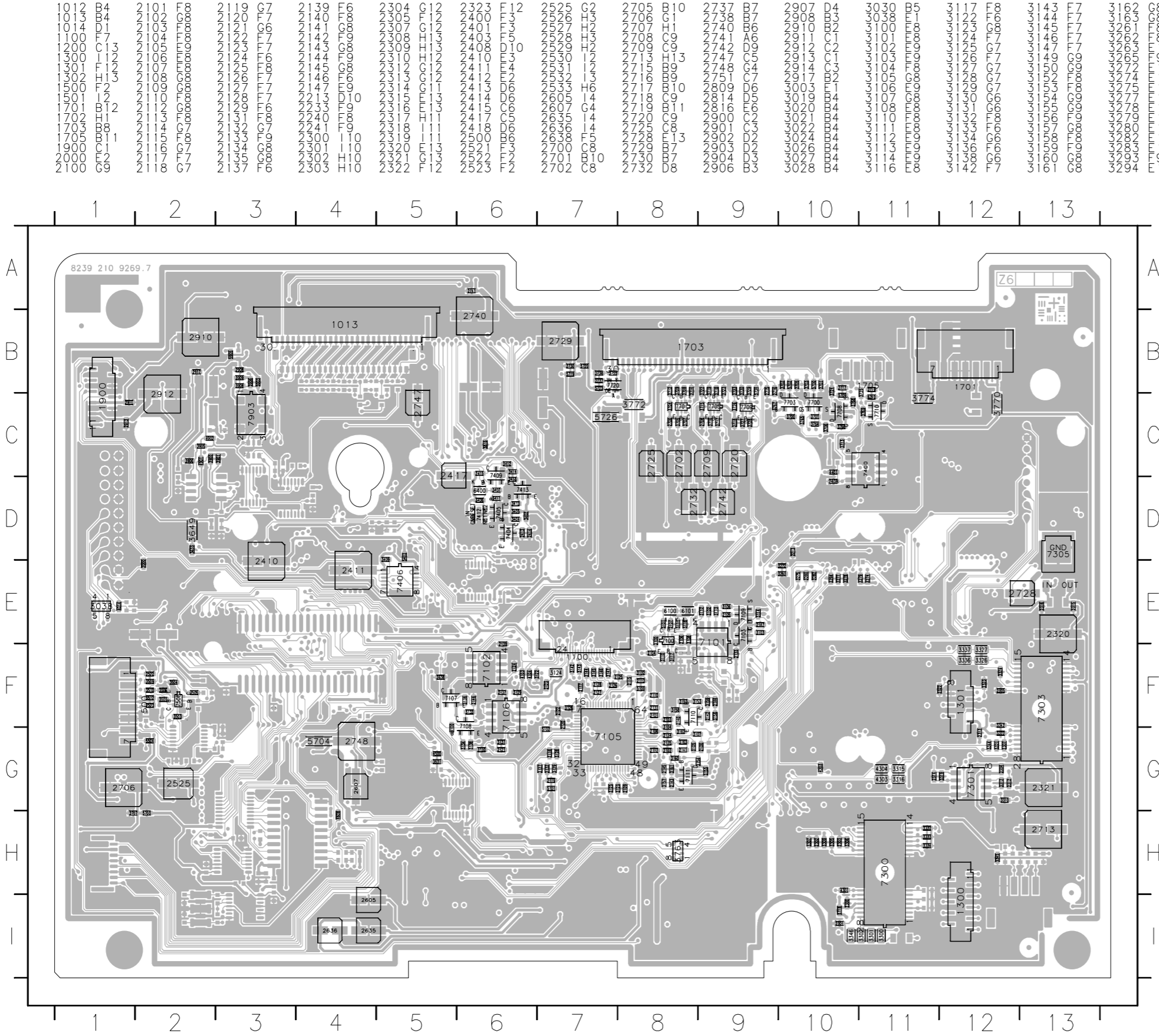
■ BLOCK DIAGRAM



★ Not applied to these models

■ PRINTED CIRCUIT BOARD

MONO Board Top View



Legend and component list for the PCB:

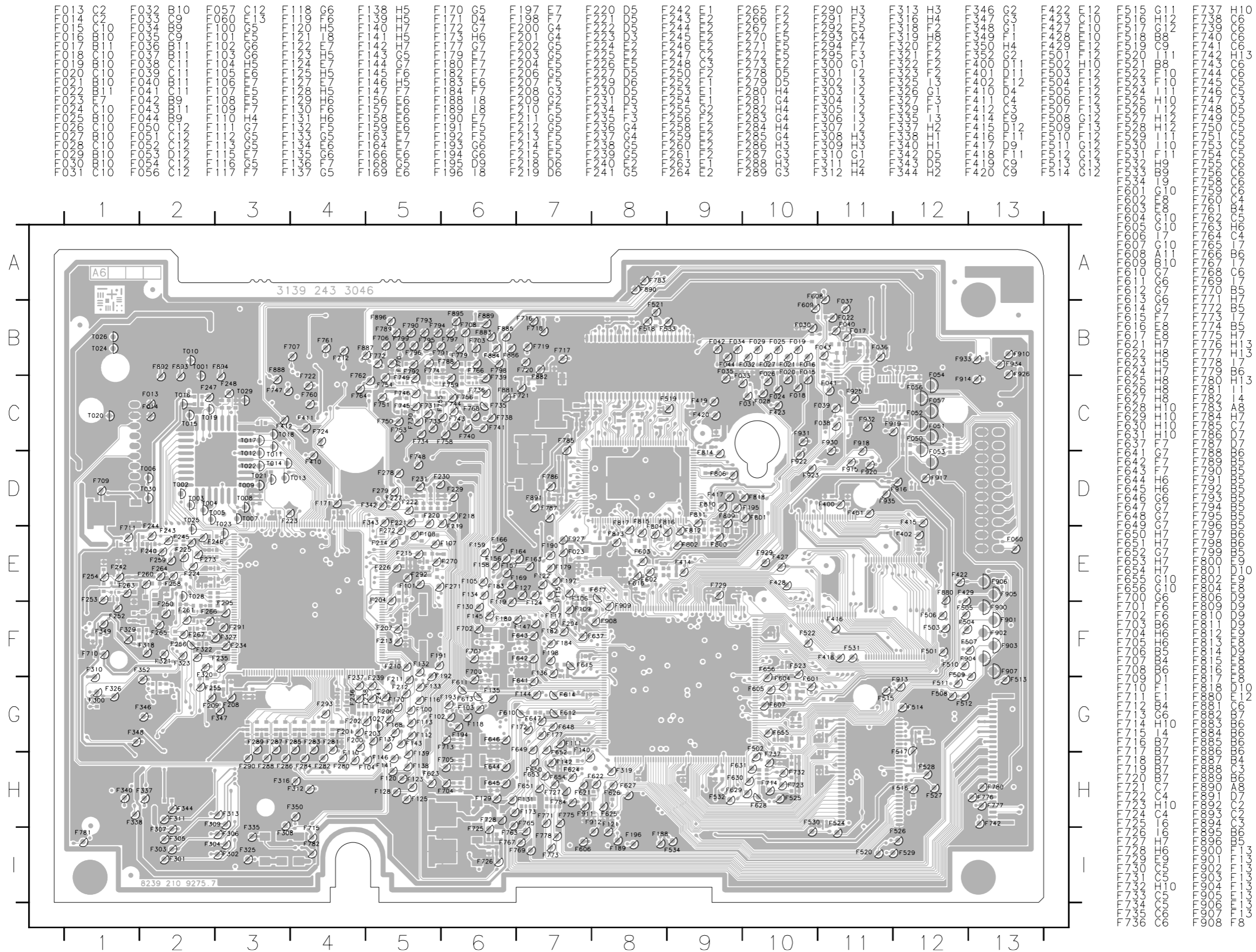
- 10 1013
- 11 2910
- 12 2912
- 13 2903
- A 2729
- B 703
- C 1701
- D 7774
- E 7775
- F 7776
- G 7777
- H 7778
- I 7779

Component values and types:

- 2706
- 2525
- 2605
- 2635
- 2656
- 2657
- 7102
- 7103
- 7104
- 7105
- 7300
- 2700
- 2703
- 2704
- 2705
- 2706
- 2707
- 2708
- 2709
- 2710
- 2711
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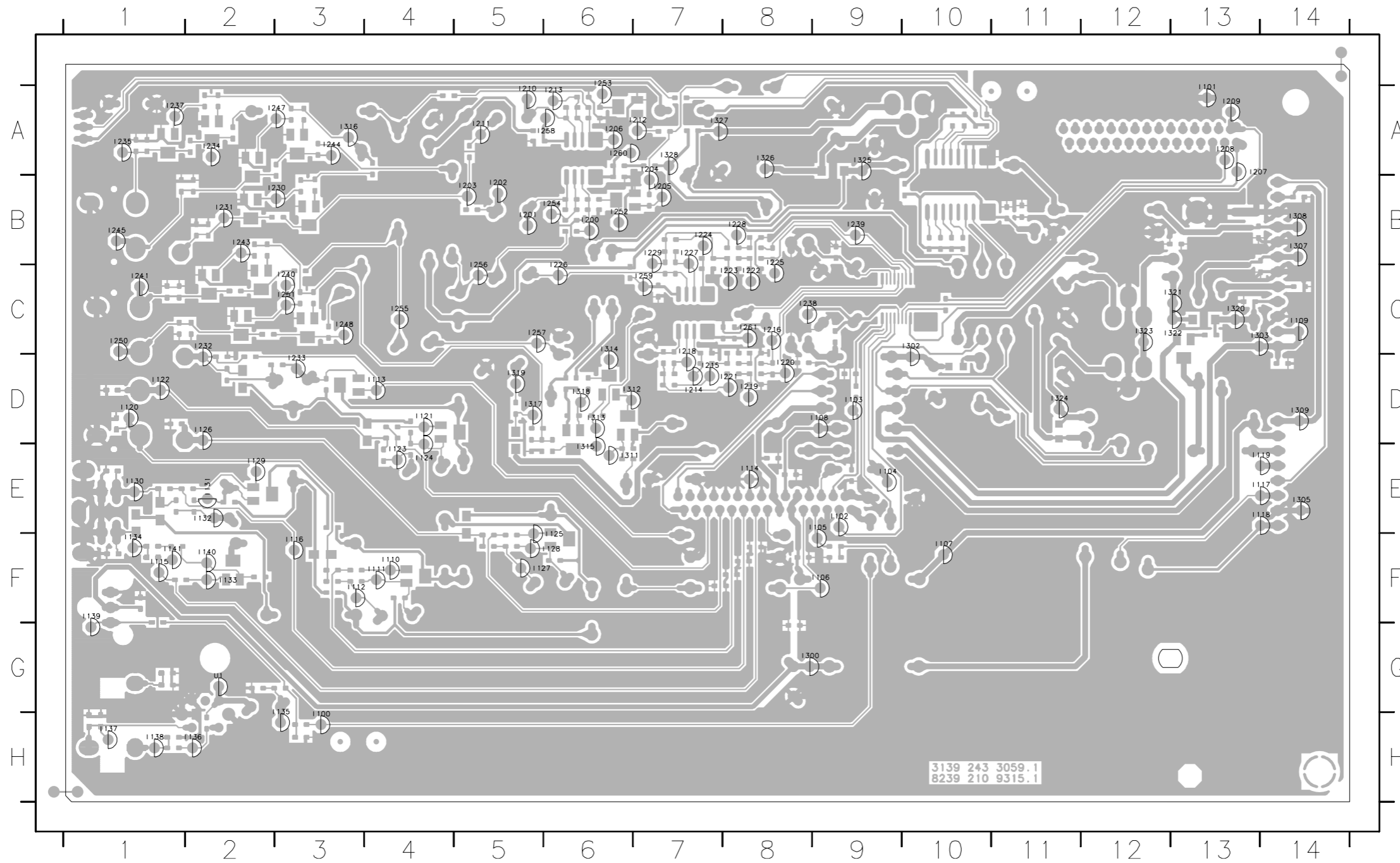
PRINTED CIRCUIT BOARD

MONO Board Testpoint View



■ PRINTED CIRCUIT BOARD

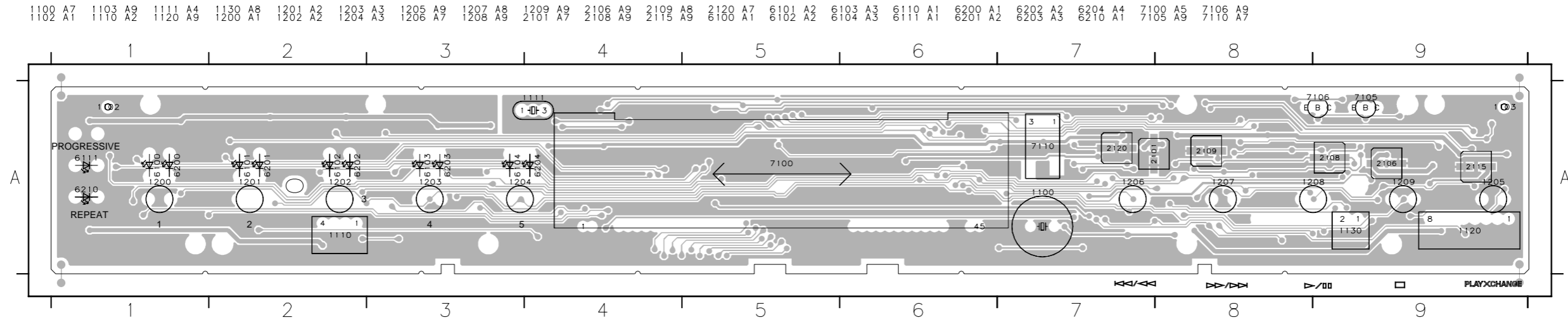
AV Board Testpoint View



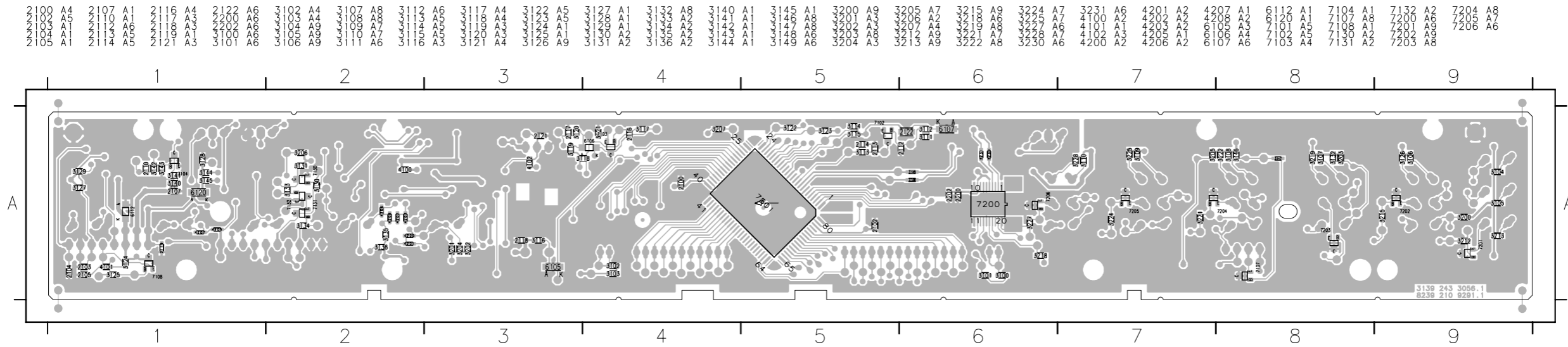
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■ PRINTED CIRCUIT BOARD

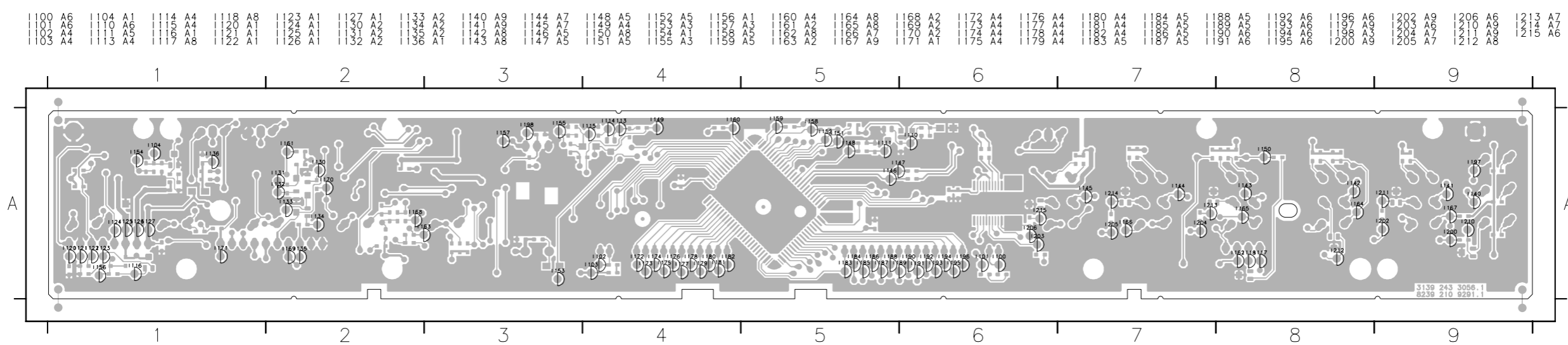
Front (1) Board Top View



Front (1) Board Bottom View

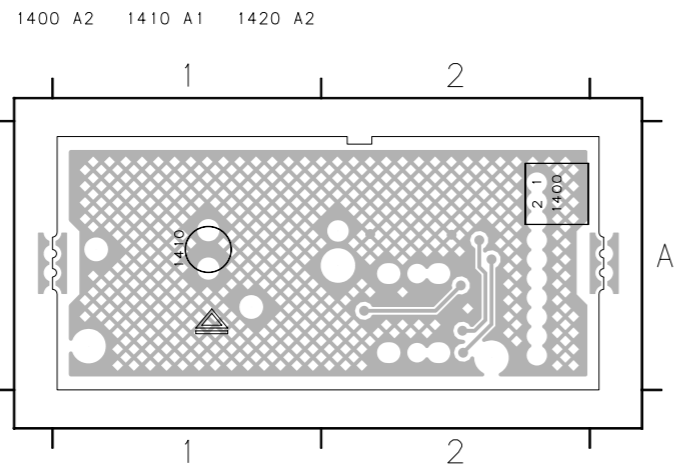


Front (1) Board Testpoint View

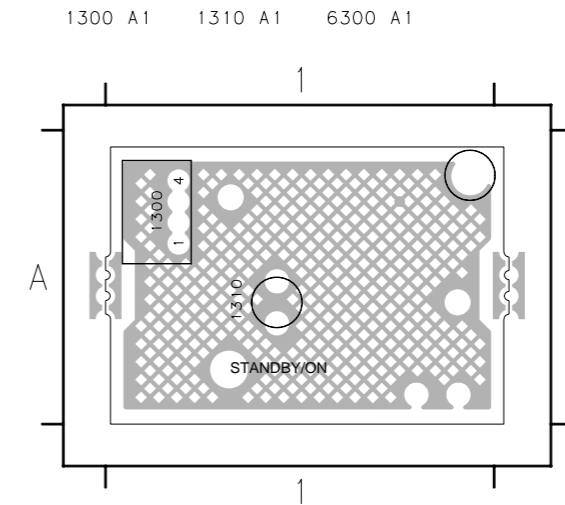


■ PRINTED CIRCUIT BOARD

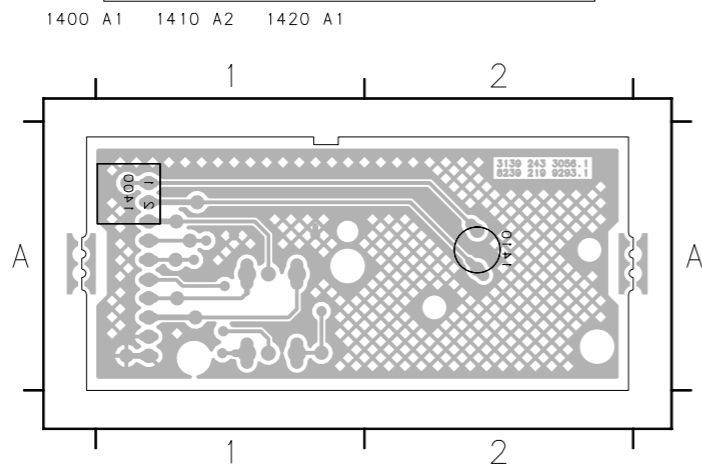
Front (2) Board Top View



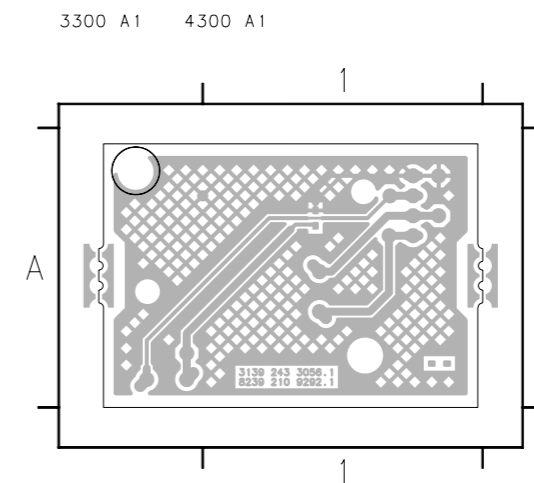
Front (3) Board Top View



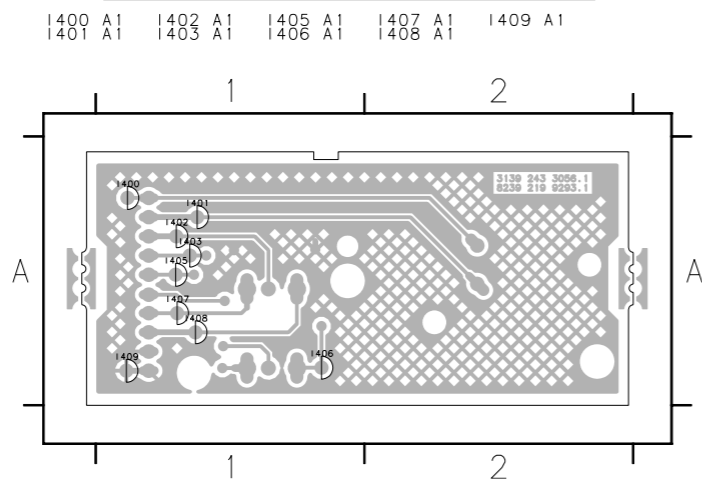
Front (2) Board Bottom View



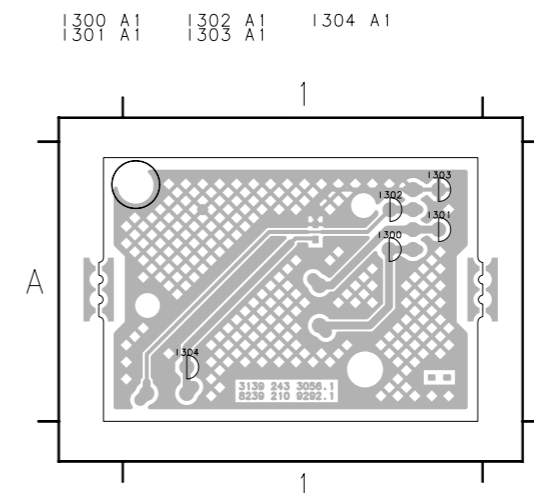
Front (3) Board Bottom View



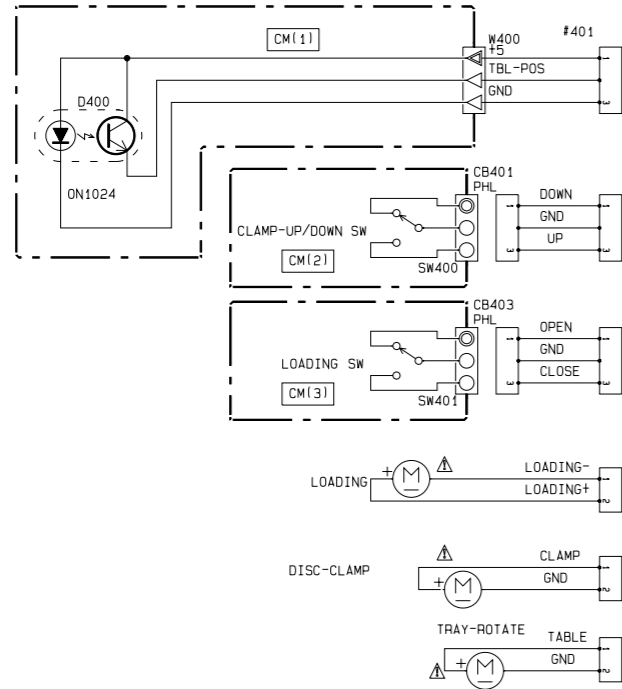
Front (2) Board Testpoint View



Front (3) Board Testpoint View



1 ■ SCHEMATIC DIAGRAM (CM-PH1)



CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	#
⊗	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

* 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.

PARTS LIST

■ WARNING

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

■ ELECTRICAL PARTS

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.

Schm Ref.	PART NO.	Description	Remarks	Market
*	AAX47110	P. C. B.	MONO BOARD	3139 248 82441
* 1201	AAX47720	RSNR. C.RYS	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	M24C64-1VMN6	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. C.RYS	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

DVD-C740 /DV-C6660

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	2400pF 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		

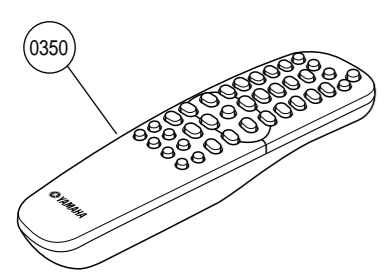
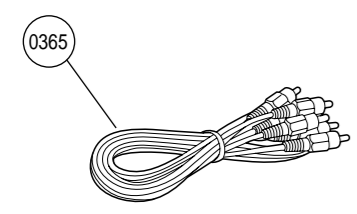
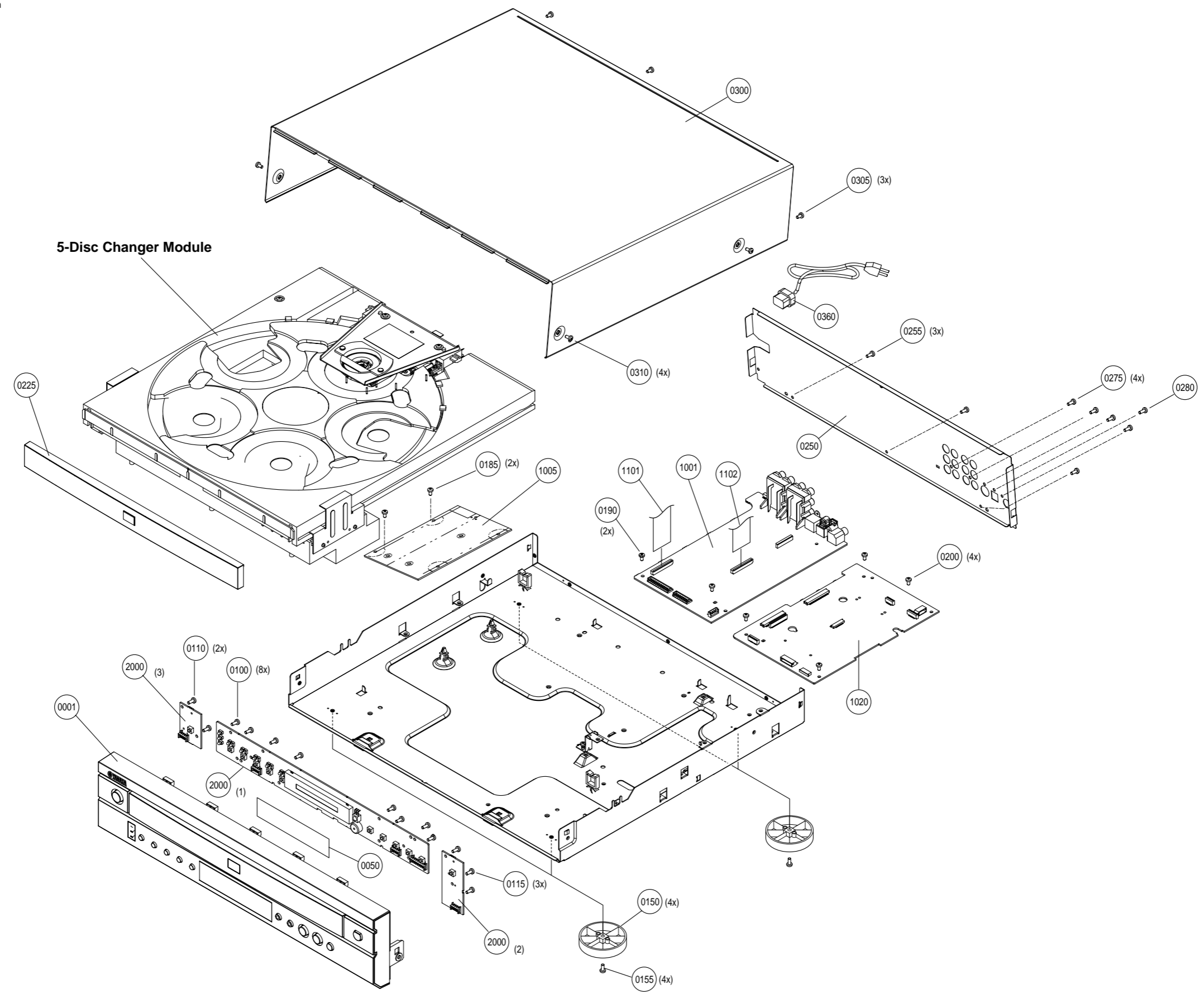
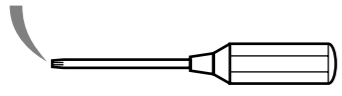
Parts List for Chip Carbon Resistors

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		

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



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

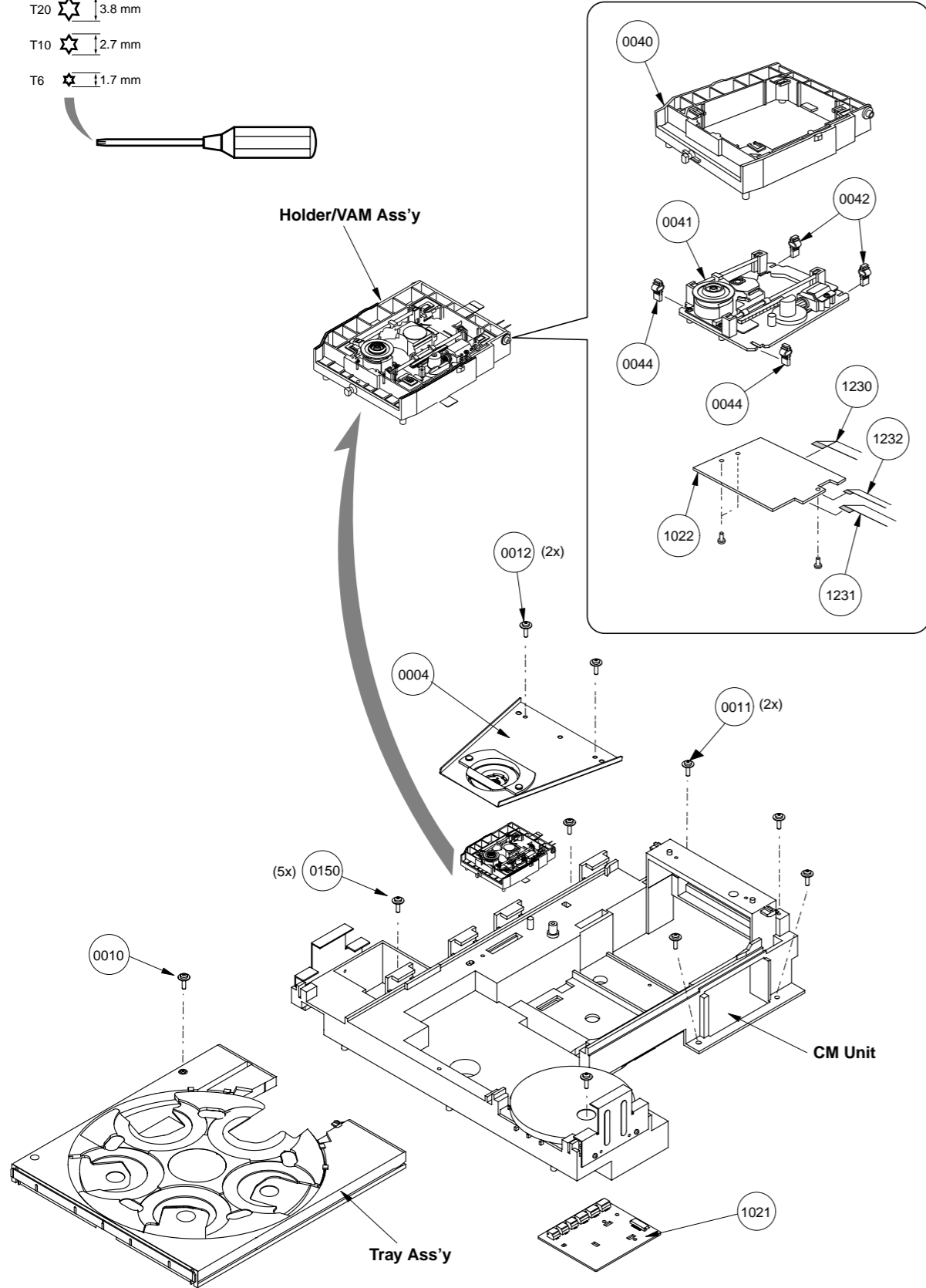
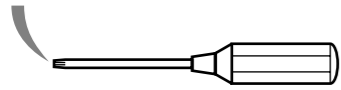
1 ■ EXPLODED VIEW (5-DISC CHANGER MODULE)

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

T20 3.8 mm

T10 2.7 mm

T6 1.7 mm

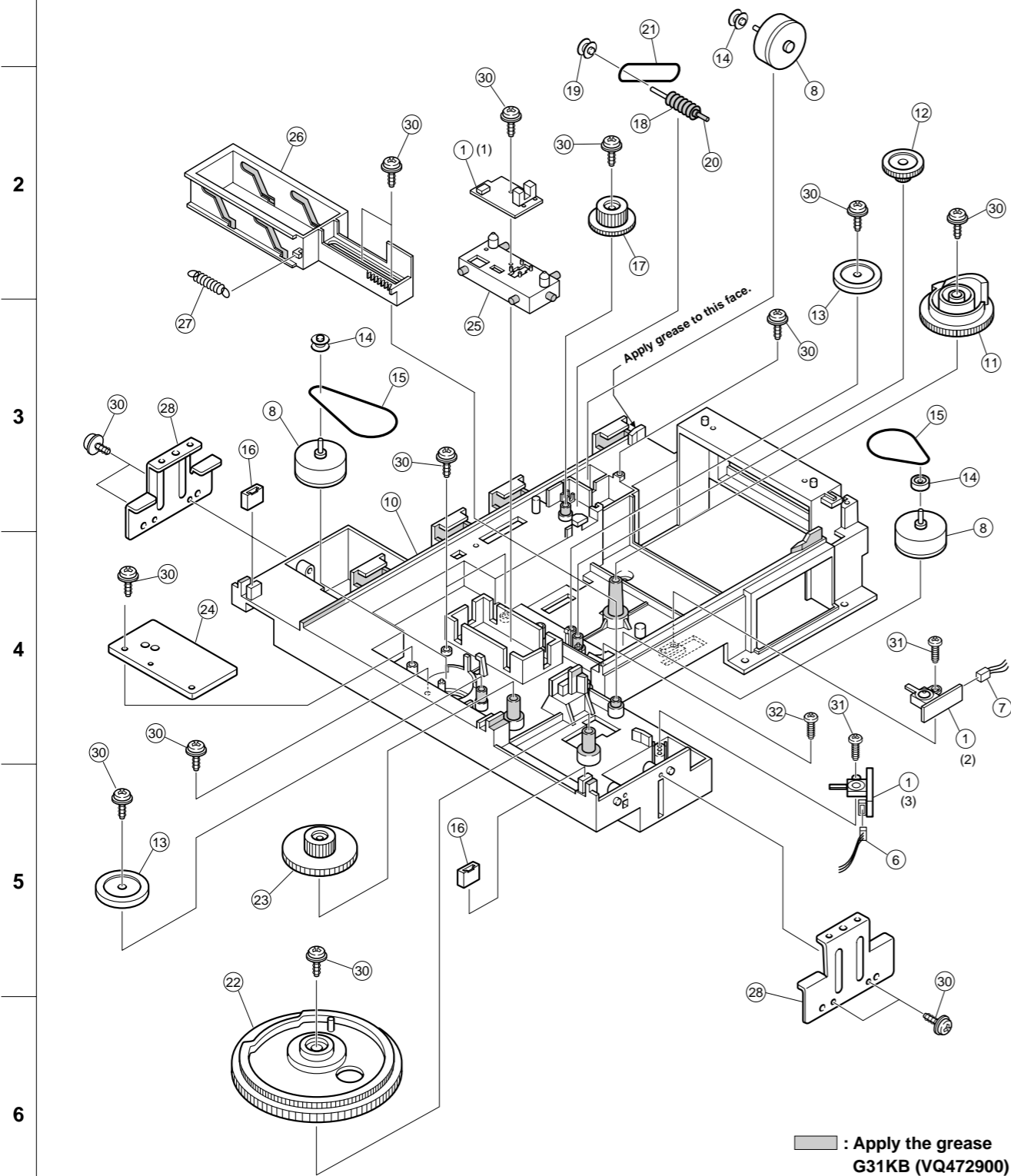


2 ■ MECHANICAL PARTS (5-DISC CHANGER MODULE)

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)



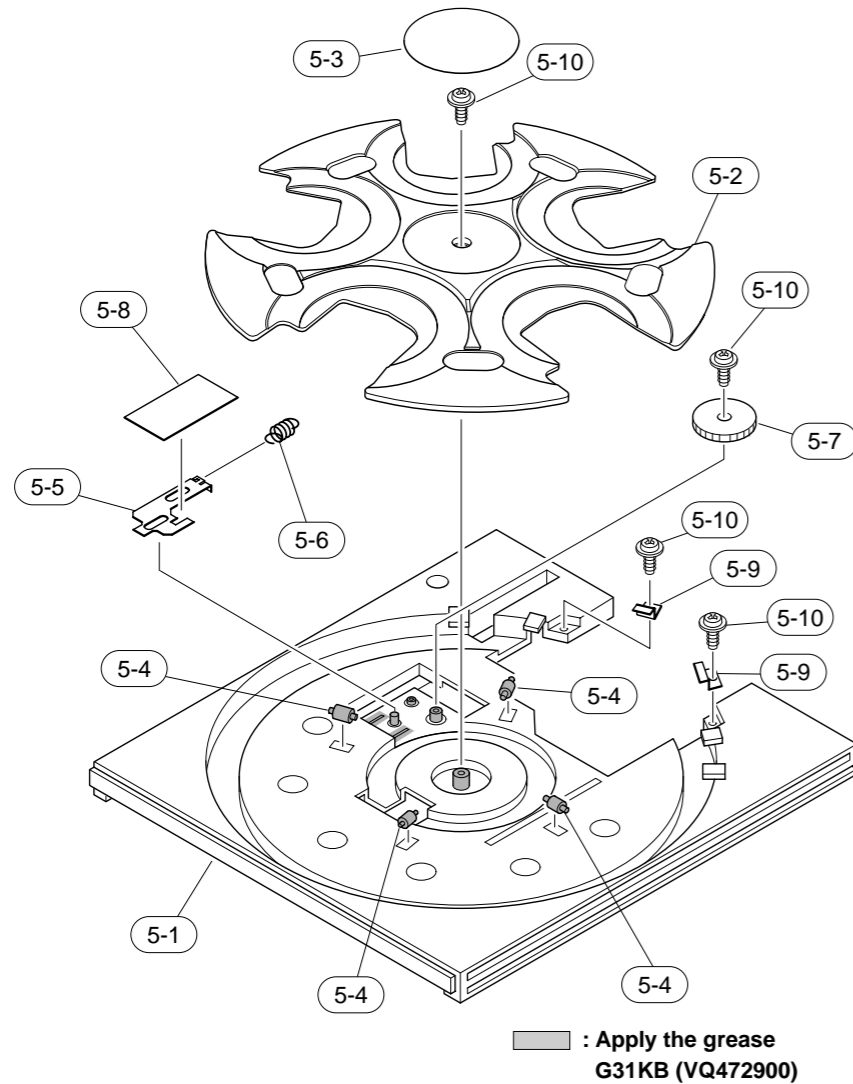
■ MECHANICAL PARTS (CM UNIT)

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	MFN2BL
31	VF617600	PAN HEAD P-TITE SCREW	2.6x8	MFC2BL
32	03786010	BIND HEAD SCREW	2.6x5	MFC2BL

* New Parts

DVD-C740/DV-C6660

1 ■ EXPLODED VIEW (TRAY ASS'Y)



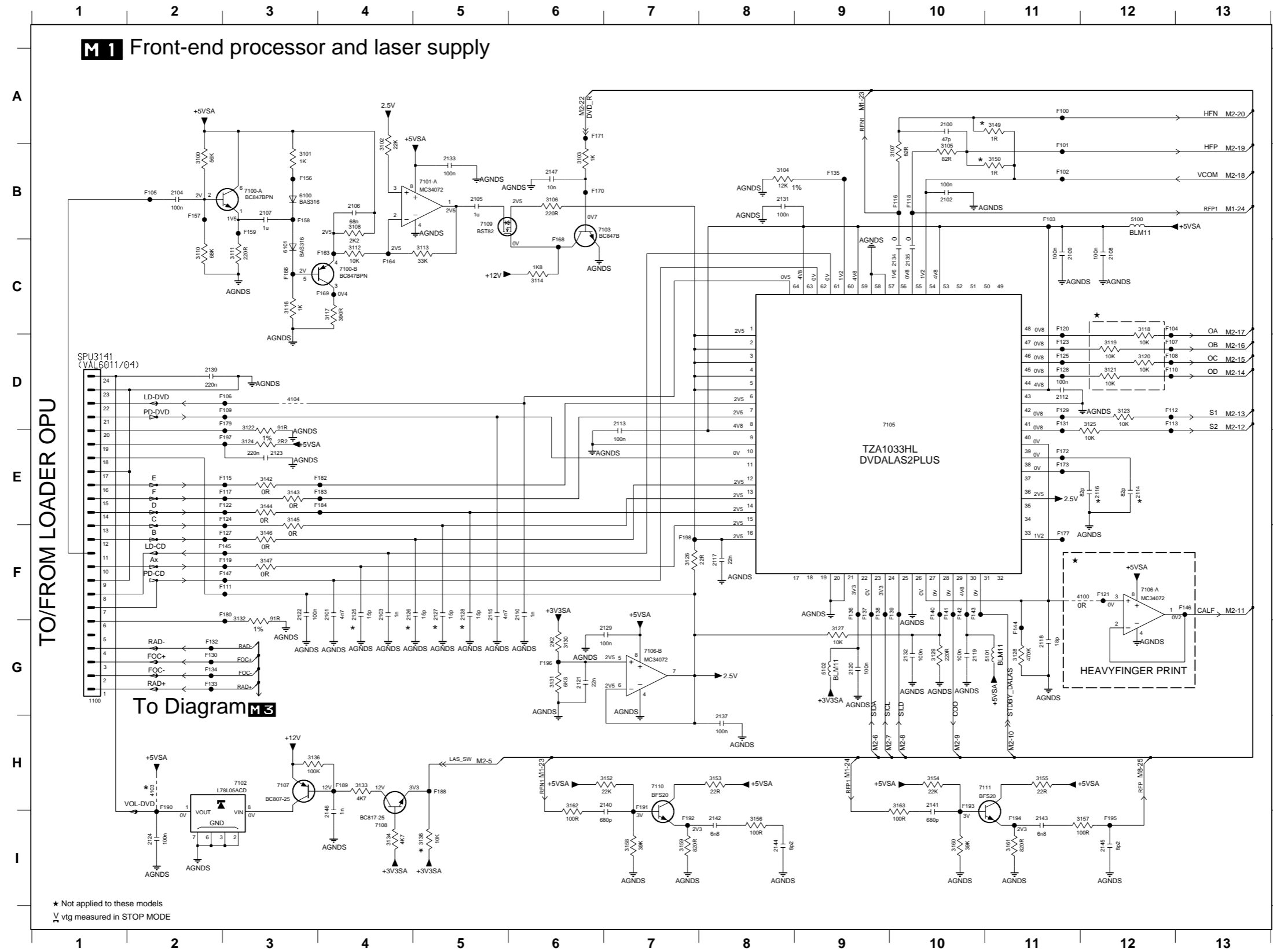
DVD-C740/DV-C6660

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	VV014400	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)

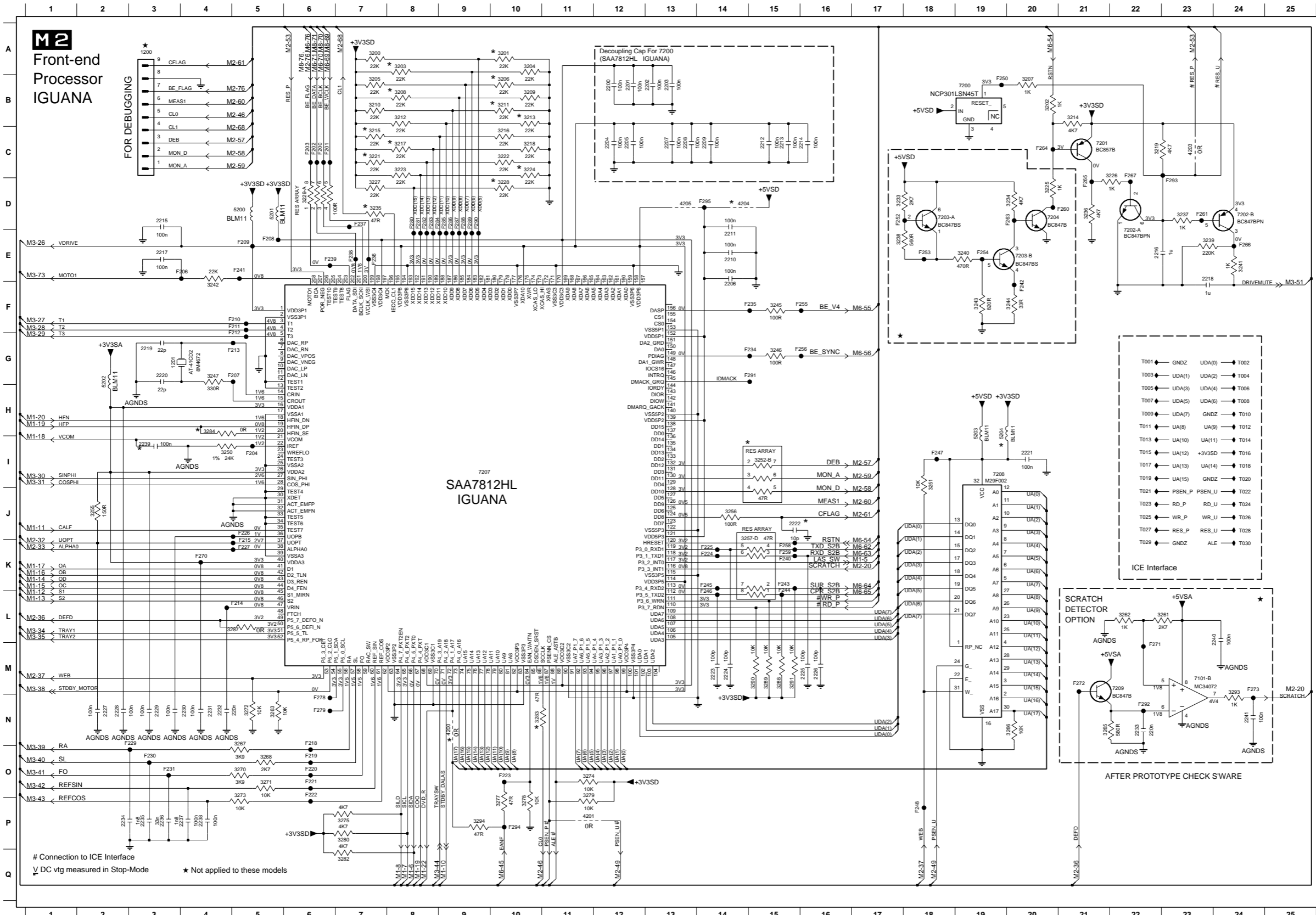


- 1100 G1
- 2100 A10
- 2101 F4
- 2102 B10
- 2103 F4
- 2104 B2
- 2105 B5
- 2106 B4
- 2107 B3
- 2108 C12
- 2109 C11
- 2110 F6
- 2112 D11
- 2113 D7
- 2114 E12
- 2115 F5
- 2116 E12
- 2117 F8
- 2118 G11
- 2119 G10
- 2120 G9
- 2122 F3
- 2123 E3
- 2124 I2
- 2125 F4
- 2126 F4
- 2127 F5
- 2128 F5
- 2129 G7
-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

* Not applied to these models
 V vtg measured in STOP MODE

* 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.

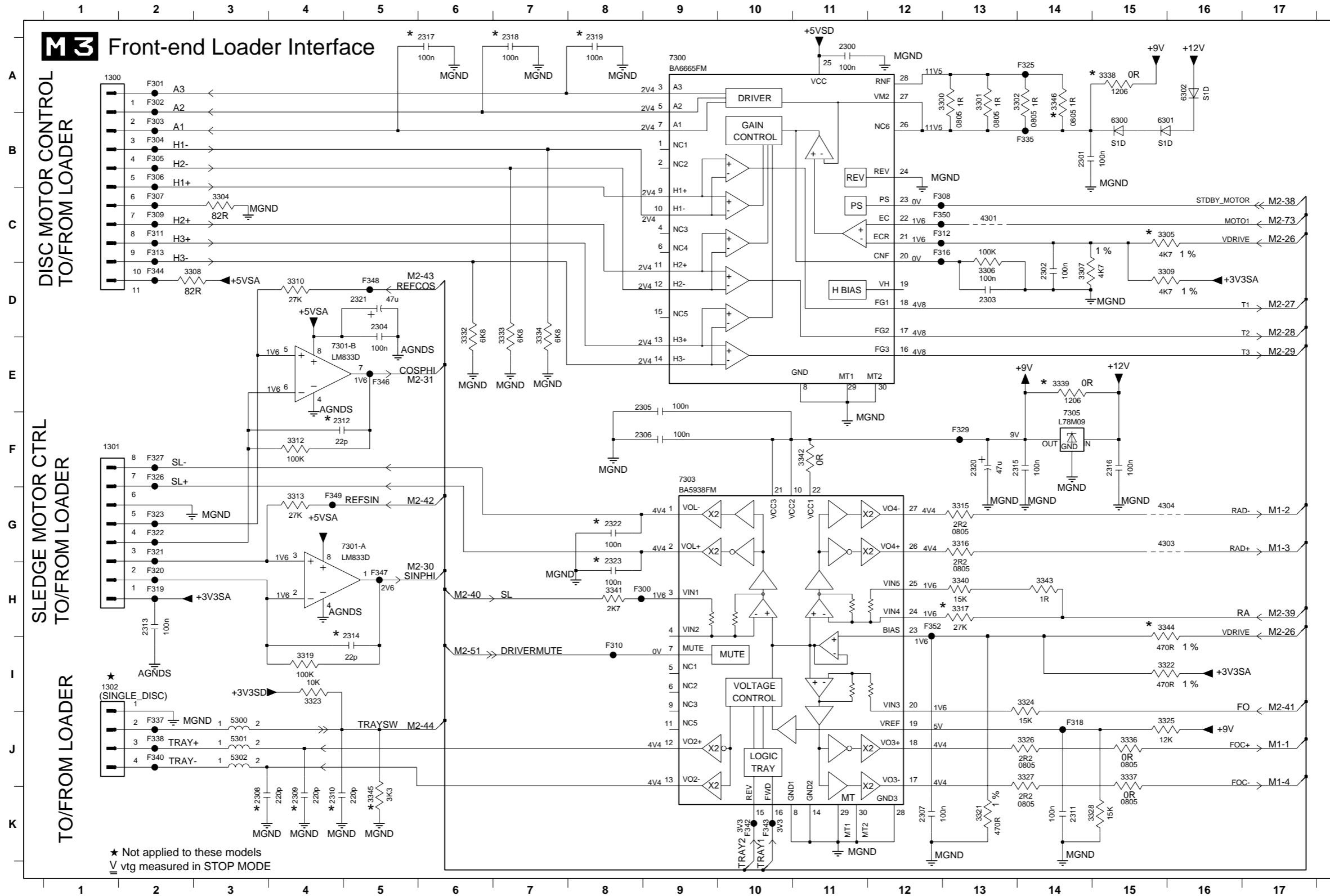
SCHEMATIC DIAGRAM (MONO 2/10)



1200 A3	3289 M15	T011 H22
1201 G3	3290 M15	T012 H24
2200 B12	3291 M15	T013 J22
2201 B12	3292 M15	T014 J24
2202 B13	3293 P5	T015 J22
2203 B11	4200 N9	T016 J24
2204 C12	4201 P11	T017 J22
2205 C12	4203 C23	T018 J24
2206 F14	4204 D14	T019 J22
2207 C13	4205 D13	T020 J24
2208 C13	5200 D5	T021 J22
2209 C14	5201 D5	T022 J24
2210 E14	5202 G2	T023 J22
2211 E14	5203 H19	T024 J24
2212 E15	5204 H19	T025 J22
2213 C15	7101-B M23	T026 J24
2214 C16	7200 B19	T027 J22
2215 D3	7201 C21	T028 J24
2216 E22	7202-A E22	T029 K22
2217 E3	7202-B D24	T030 K24
2218 E23	7203-B D18	
2219 G3	7203-B E20	
2220 G3	7204 D20	
2221 I20	7207 I9	
2222 J15	7208 I19	
2223 M14	7209 M22	
2224 M14	F200 M4	
2225 M16	F201 C6	
2226 M16	F202 C6	
2227 N2	F203 C6	
2228 N2	F204 I5	
2229 N3	F206 E4	
2230 N4	F207 G5	
2231 N4	F208 E5	
2232 N4	F209 E5	
2233 N22	F210 F5	
2234 P2	F211 F5	
2235 P3	F212 F5	
2236 P3	F213 G5	
2237 P4	F214 L5	
2238 P4	F215 K5	
2239 P4	F216 N6	
2240 L24	F218 O6	
2241 N24	F220 O6	
3200 A7	F221 O6	
3201 A10	F222 O6	
3202 B20	F223 O10	
3203 A8	F224 K14	
3204 A10	F225 K14	
3205 B10	F226 J5	
3206 B10	F227 K5	
3207 B20	F228 N3	
3208 B8	F230 O3	
3209 B10	F231 O3	
3210 B7	F234 G15	
3211 B10	F235 F15	
3212 B8	F236 E7	
3213 B10	F237 D7	
3214 B21	F238 E7	
3215 C7	F239 E6	
3216 C10	F240 K15	
3217 C8	F241 E5	
3218 C10	F242 F20	
3219 C22	F243 K15	
3220 C7	F244 K15	
3221 C10	F245 K14	
3222 C18	F246 K14	
3223 C10	F247 H18	
3225 D20	F248 B19	
3226 C22	F250 B19	
3227 D7	F252 D17	
3228 B10	F253 B19	
3229-A D6	F254 E19	
3233 D17	F255 F16	
3234 D20	F256 G16	
3235 D7	F258 K15	
3236 D21	F259 K15	
3237 D23	F260 D21	
3238 E17	F261 D23	
3239 E23	F263 D20	
3240 E19	F264 C20	
3241 E24	F265 D21	
3242 F4	F266 E24	
3243 F19	F267 C22	
3244 F20	F270 K4	
3245 F15	F271 L22	
3246 G15	F272 M15	
3247 G4	F273 M24	
3250 I4	F278 N6	
3251 H18	F279 N6	
3252-B I15	F280 D8	
3255 J2	F281 D8	
3256 J14	F282 D8	
3257-D K15	F283 D8	
3261 L23	F284 D9	
3262 L22	F285 D9	
3263 N5	F286 D9	
3265 N21	F287 D9	
3266 N20	F288 D9	
3267 N5	F289 D9	
3268 O5	F290 D9	
3270 O5	F291 G15	
3271 O5	F292 N22	
3272 N5	F293 D23	
3273 O5	F294 P10	
3274 O11	F295 D14	
3275 P7	T001 G22	
3277 P10	T002 G24	
3278 P10	T003 G22	
3279 O11	T004 G24	
3280 P7	T005 H22	
3282 Q7	T006 H24	
3283 N10	T007 H22	
3284 H4	T008 H24	
3287 L5	T009 H22	
3288 M15	T010 H24	

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 * Schematic diagram is subject to change without notice.

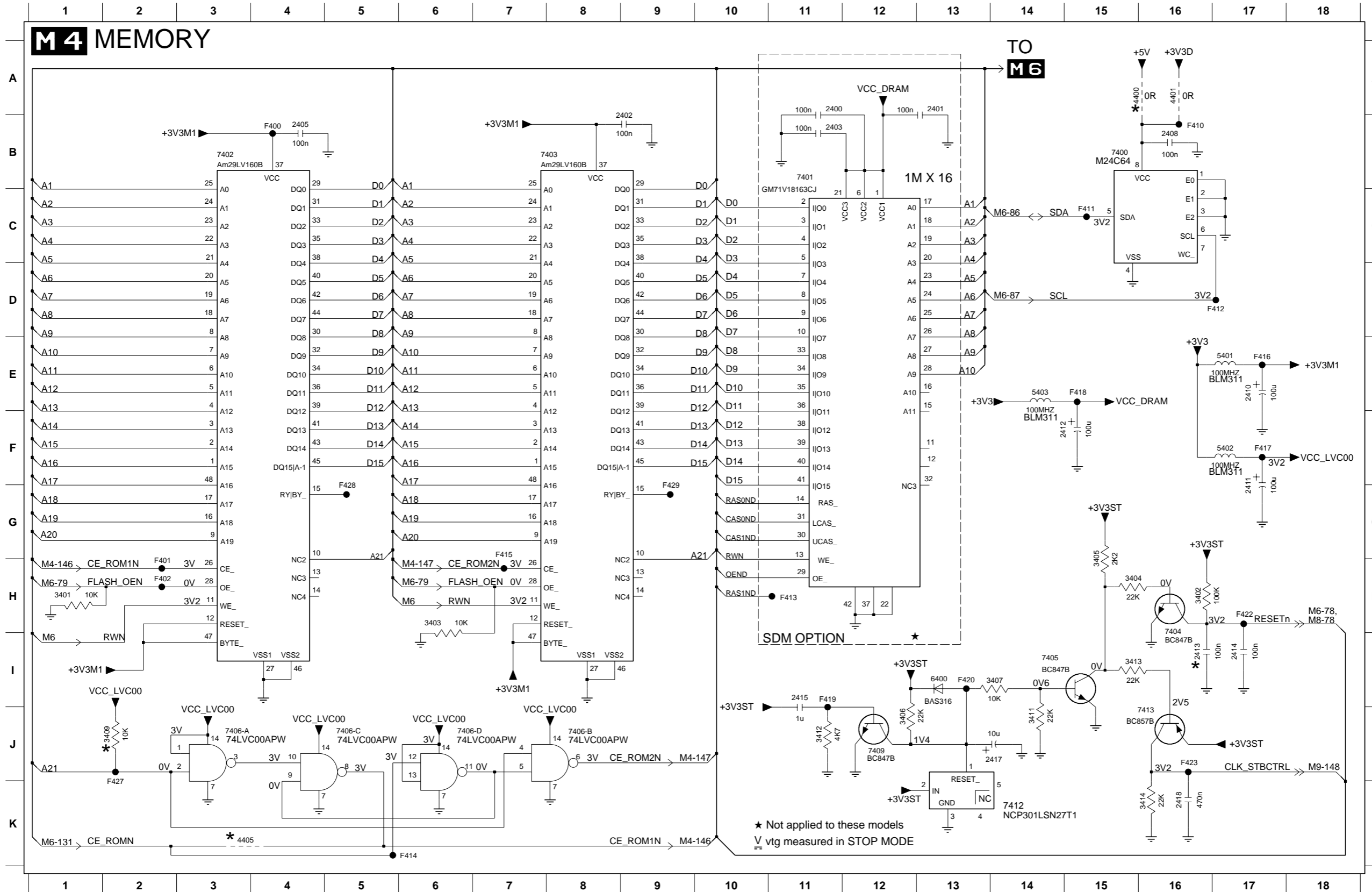
■ SCHEMATIC DIAGRAM (MONO 3/10)



- 1300 A2
- 1301 F2
- 1302 I1
- 2300 A11
- 2301 B14
- 2302 D14
- 2303 D13
- 2304 D5
- 2305 E9
- 2306 F9
- 2307 K12
- 2308 K3
- 2309 K4
- 2310 K4
- 2311 K14
- 2312 F4
- 2313 H2
- 2314 I5
- 2315 F14
- 2316 F15
- 2317 A6
- 2318 A7
- 2319 A8
- 2320 F13
- 2321 D5
- 2322 G8
- 2323 H8
- 3300 A13
- 3301 A13
- 3302 A14
- 3304 C3
- 3305 C15
- 3306 D13
- 3307 D14
- 3308 D2
- 3309 D15
- 3310 D4
- 3312 F4
- 3313 G4
- 3315 G13
- 3316 G13
- 3317 H13
- 3319 I4
- 3321 K13
- 3322 I15
- 3323 I4
- 3324 I14
- 3325 J15
- 3326 J14
- 3327 J14
- 3328 K15
- 3332 D6
- 3333 D7
- 3334 D7
- 3336 J15
- 3337 J15
- 3338 A15
- 3339 E14
- 3340 H13
- 3341 H8
- 3342 F11
- 3343 H14
- 3344 H15
- 3345 K5
- 3346 A14
- 4301 C13
- 4303 G15
- 4304 G15
- 5300 J3
- 5301 J3
- 5302 J3
- 6300 B15
- 6301 B15
- 6302 A16
- 7300 A9
- 7301-A G4
- 7301-B E4
- 7303 F9
- 7305 F14
- F300 H8
- F301 A2
- F302 A2
- F303 B2
- F304 B2
- F305 B2
- F306 B2
- F307 C2
- F308 C12
- F309 C2
- F310 I8
- F311 C2
- F312 C2
- F313 C2
- F316 C12
- F318 J14
- F319 H2
- F320 H2
- F321 G2
- F322 G2
- F323 G2
- F325 A14
- F326 F2
- F327 F2
- F329 F13
- F335 B14
- F337 J2
- F338 J2
- F340 J2
- F342 K10
- F343 K10
- F344 D2
- F346 E5
- F347 H5
- F348 D5
- F349 G4
- F350 C12
- F352 H12

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 * Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (MONO 4/10)

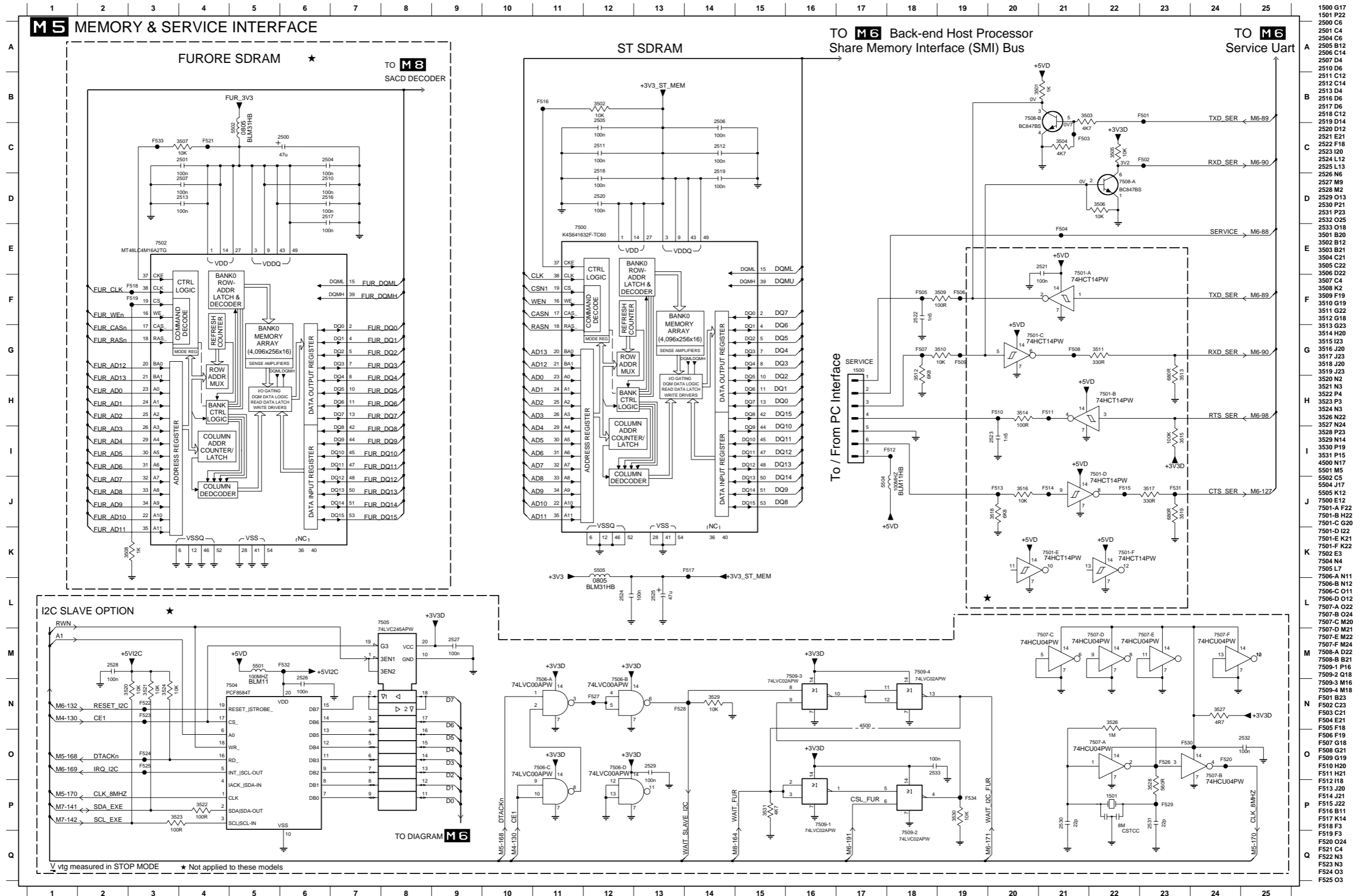


- 2400 A11
- 2401 A13
- 2402 B9
- 2403 B11
- 2405 B4
- 2408 B16
- 2410 E17
- 2411 G17
- 2412 F15
- 2413 I16
- 2414 I17
- 2415 I11
- 2417 J14
- 2418 K16
- 3401 H1
- 3402 H16
- 3403 H6
- 3404 H15
- 3405 G15
- 3406 J12
- 3407 I14
- 3409 J2
- 3411 J14
- 3412 J11
- 3413 I15
- 3414 K16
- 4400 A16
- 4401 A16
- 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

★ Not applied to these models
 V vtg measured in STOP MODE

* 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.

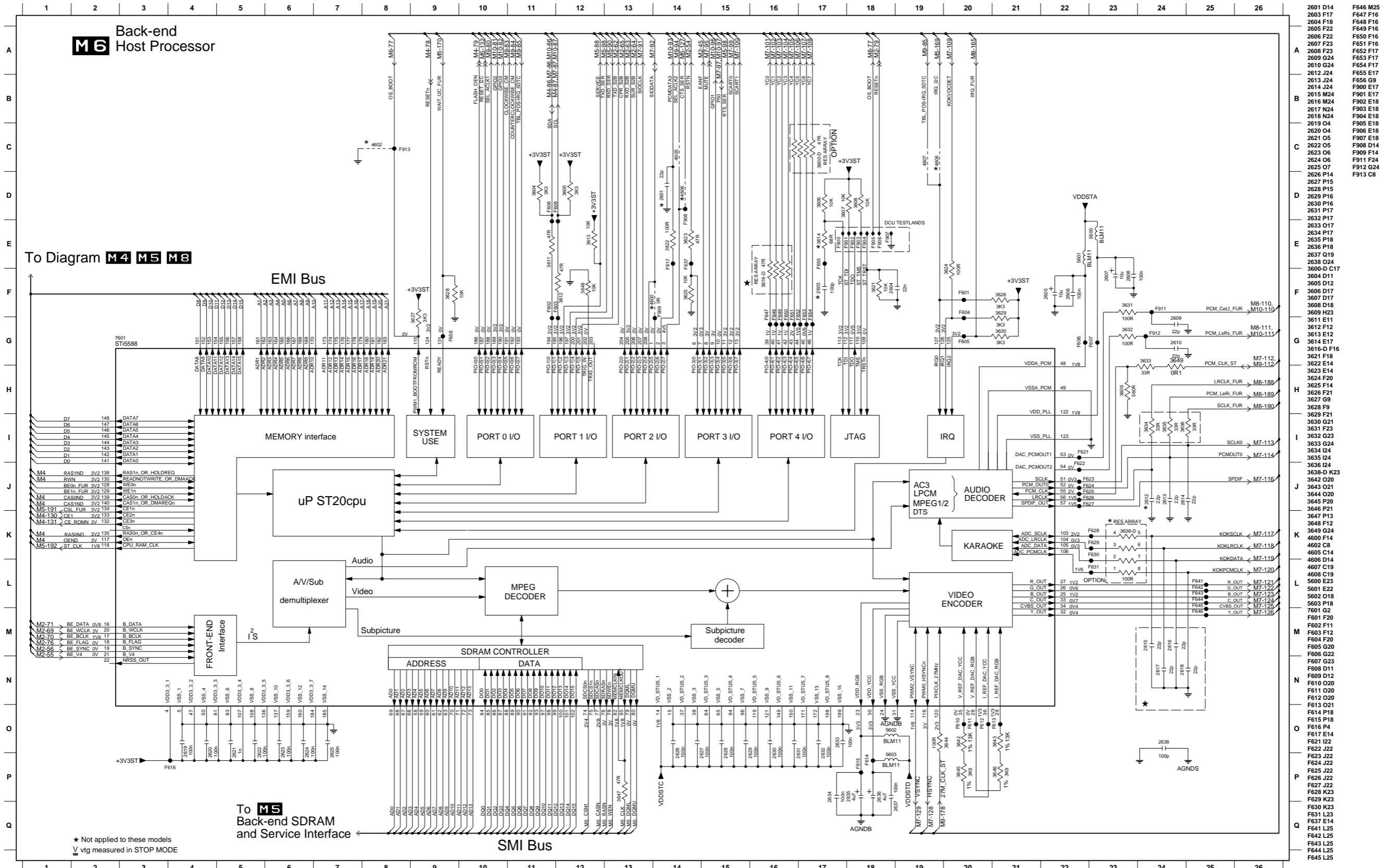
■ SCHEMATIC DIAGRAM (MONO 5/10)



- 1500 G17
- 1501 P22
- 2500 C6
- 2501 C4
- 2504 C6
- 2505 B12
- 2506 C14
- 2507 D4
- 2510 D6
- 2511 C12
- 2512 C14
- 2513 D4
- 2516 D6
- 2517 D6
- 2518 C12
- 2519 D14
- 2520 D12
- 2521 E21
- 2522 F18
- 2523 I20
- 2524 L12
- 2525 L13
- 2526 N6
- 2527 M9
- 2528 M2
- 2529 O13
- 2530 P21
- 2531 P22
- 2532 Q25
- 2533 O18
- 3501 B20
- 3502 B12
- 3503 B21
- 3504 C21
- 3505 C22
- 3506 D22
- 3507 C4
- 3508 K2
- 3509 F19
- 3510 G19
- 3511 G22
- 3512 I18
- 3513 G23
- 3514 H20
- 3515 I23
- 3516 J20
- 3517 J23
- 3518 J20
- 3519 J23
- 3520 N22
- 3521 N3
- 3522 P4
- 3523 P3
- 3524 N3
- 3526 N22
- 3527 N24
- 3528 J23
- 3529 N14
- 3530 P19
- 3531 P15
- 4500 N17
- 5501 M5
- 5502 C5
- 5504 J17
- 5505 H12
- 7500 E12
- 7501-A F22
- 7501-B H22
- 7501-C G20
- 7501-D I22
- 7501-E K21
- 7501-F K22
- 7502 E3
- 7504 N4
- 7505 L7
- 7506-A N11
- 7506-B N12
- 7506-C O11
- 7506-D O12
- 7507-A O22
- 7507-B O24
- 7507-C M20
- 7507-D M21
- 7507-E M22
- 7507-F M24
- 7508-A D22
- 7508-B B21
- 7509-1 P16
- 7509-2 Q18
- 7509-3 M16
- 7509-4 M18
- F501 B23
- F502 C23
- F503 C21
- F504 E21
- F505 F18
- F506 F19
- F507 G18
- F508 G21
- F509 G19
- F510 H20
- F511 H21
- F512 I18
- F513 J20
- F514 J21
- F515 J22
- F516 B11
- F517 K14
- F518 F3
- F519 F3
- F520 Q24
- F521 C4
- F522 N3
- F523 N3
- F524 O3
- F525 O3
- F526 O23
- F527 N12
- F528 N13
- F529 P23
- F530 C23
- F531 J23
- F532 M6
- F533 C3
- F534 P19

* 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.

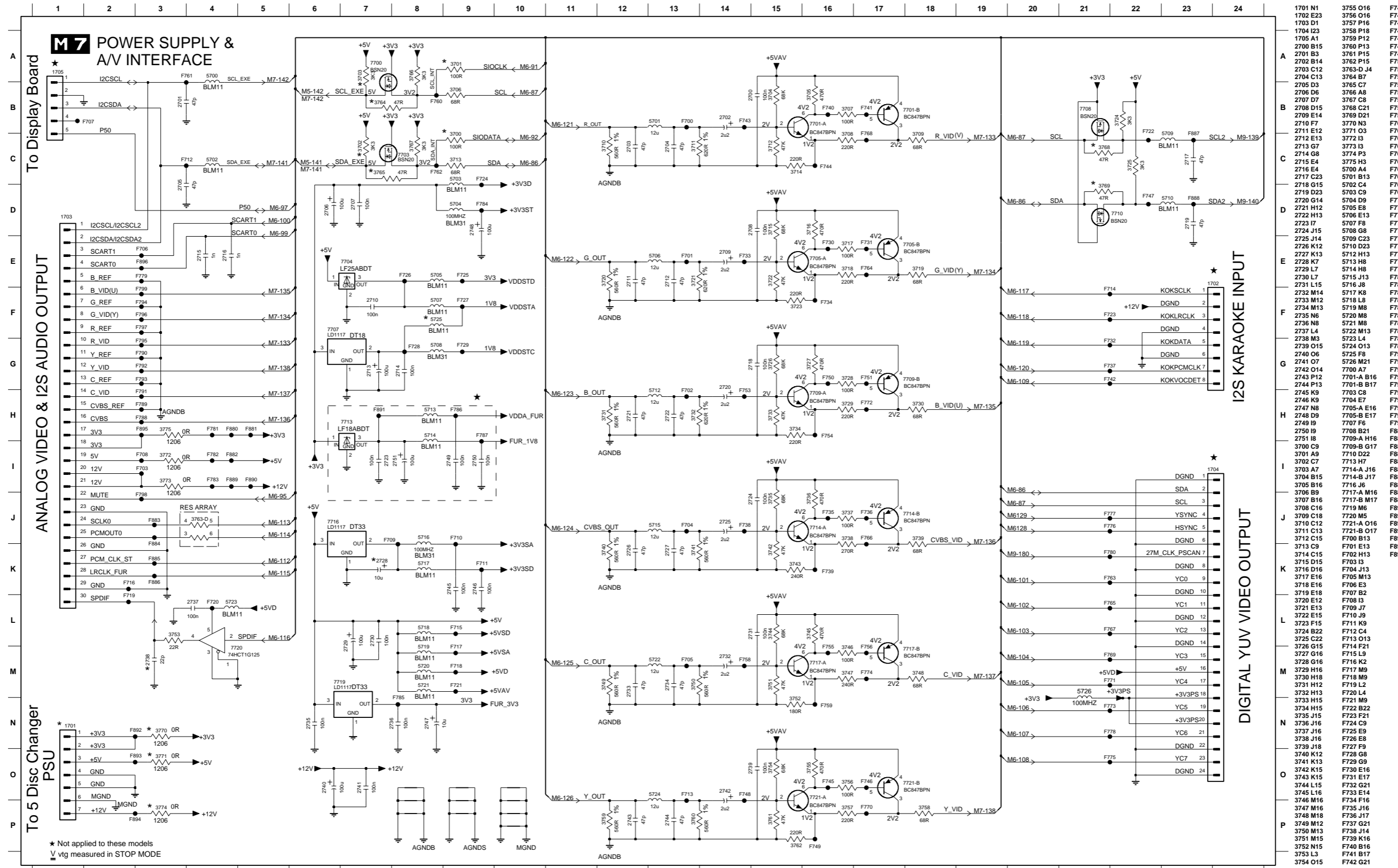
SCHEMATIC DIAGRAM (MONO 6/10)



- 2601 D14
- 2603 F17
- 2604 F18
- 2605 F22
- 2606 F22
- 2607 F23
- 2608 F23
- 2609 G24
- 2610 G24
- 2612 J24
- 2613 J24
- 2614 J24
- 2615 M24
- 2616 M24
- 2618 N24
- 2619 O4
- 2620 O4
- 2621 O5
- 2622 O5
- 2623 O6
- 2624 O6
- 2625 O7
- 2626 P14
- 2627 P15
- 2628 P15
- 2629 P16
- 2630 P16
- 2631 P17
- 2632 P17
- 2633 O17
- 2634 P17
- 2635 P18
- 2636 P18
- 2637 Q19
- 2638 O24
- 3600-D C17
- 3604 D11
- 3605 D12
- 3606 D17
- 3607 D17
- 3608 D18
- 3609 H23
- 3611 E11
- 3612 F12
- 3613 E12
- 3614 F17
- 3616-D F16
- 3621 F18
- 3622 E14
- 3623 E14
- 3624 F20
- 3625 F14
- 3626 G21
- 3627 G9
- 3628 F9
- 3629 F21
- 3630 G21
- 3631 F23
- 3632 G23
- 3633 G24
- 3634 I24
- 3635 I24
- 3636 I24
- 3638-D K23
- 3642 O20
- 3643 O21
- 3644 O20
- 3645 P20
- 3646 P21
- 3647 P13
- 3648 F12
- 3649 G24
- 4600 F14
- 4602 C9
- 4605 C14
- 4606 D14
- 4607 C19
- 4608 C19
- 5600 E23
- 5601 E22
- 5602 O18
- 5603 P18
- 7601 G2
- F601 F20
- F602 F11
- F603 F12
- F604 F20
- F605 G20
- F606 G22
- F607 G23
- F608 D11
- F609 D12
- F610 O20
- F611 O20
- F612 O20
- F613 O21
- F614 P18
- F615 P18
- F616 P4
- F617 I22
- F621 I22
- F622 J22
- F623 J22
- F624 J22
- F625 J22
- F626 J22
- F627 J22
- F628 K23
- F629 K23
- F630 K23
- F631 L23
- F637 E14
- F641 L25
- F642 L25
- F643 L25
- F644 L25
- F645 L25
- F646 M25
- F647 F16
- F648 F16
- F650 F16
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- F652 F17
- F653 F17
- F654 F17
- F655 E17
- F656 G9
- F657 E18
- F658 E18
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- F660 E18
- F661 E17
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- F691 E17
- F692 E18
- F693 E18
- F694 E18
- F695 E18
- F696 E18
- F697 E18
- F698 E18
- F699 F14
- F700 E17
- F701 F24
- F702 G24
- F703 C8

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 * Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (MONO 7/10)



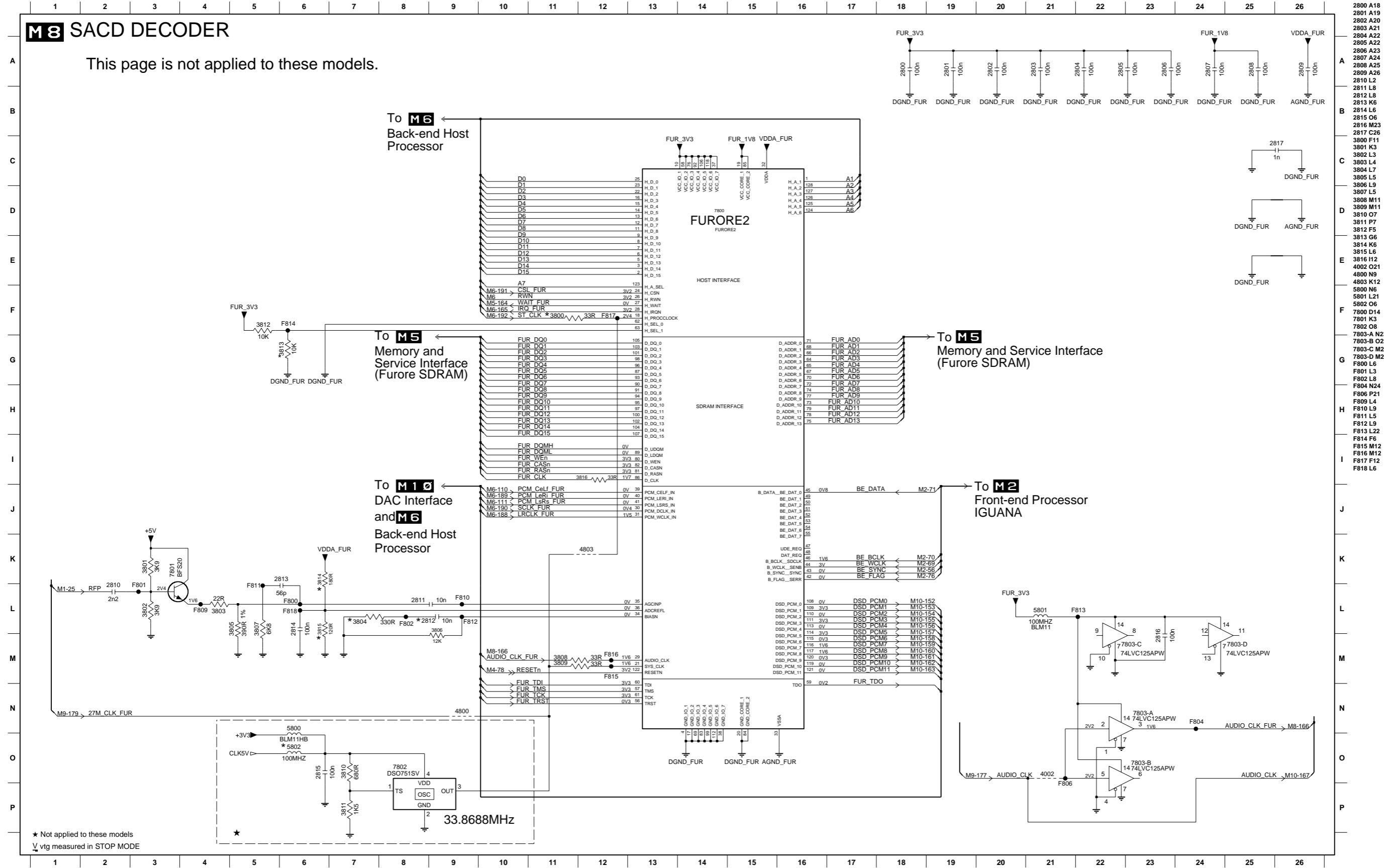
* Not applied to these models
 V vtg measured in STOP MODE

* 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 8/10)

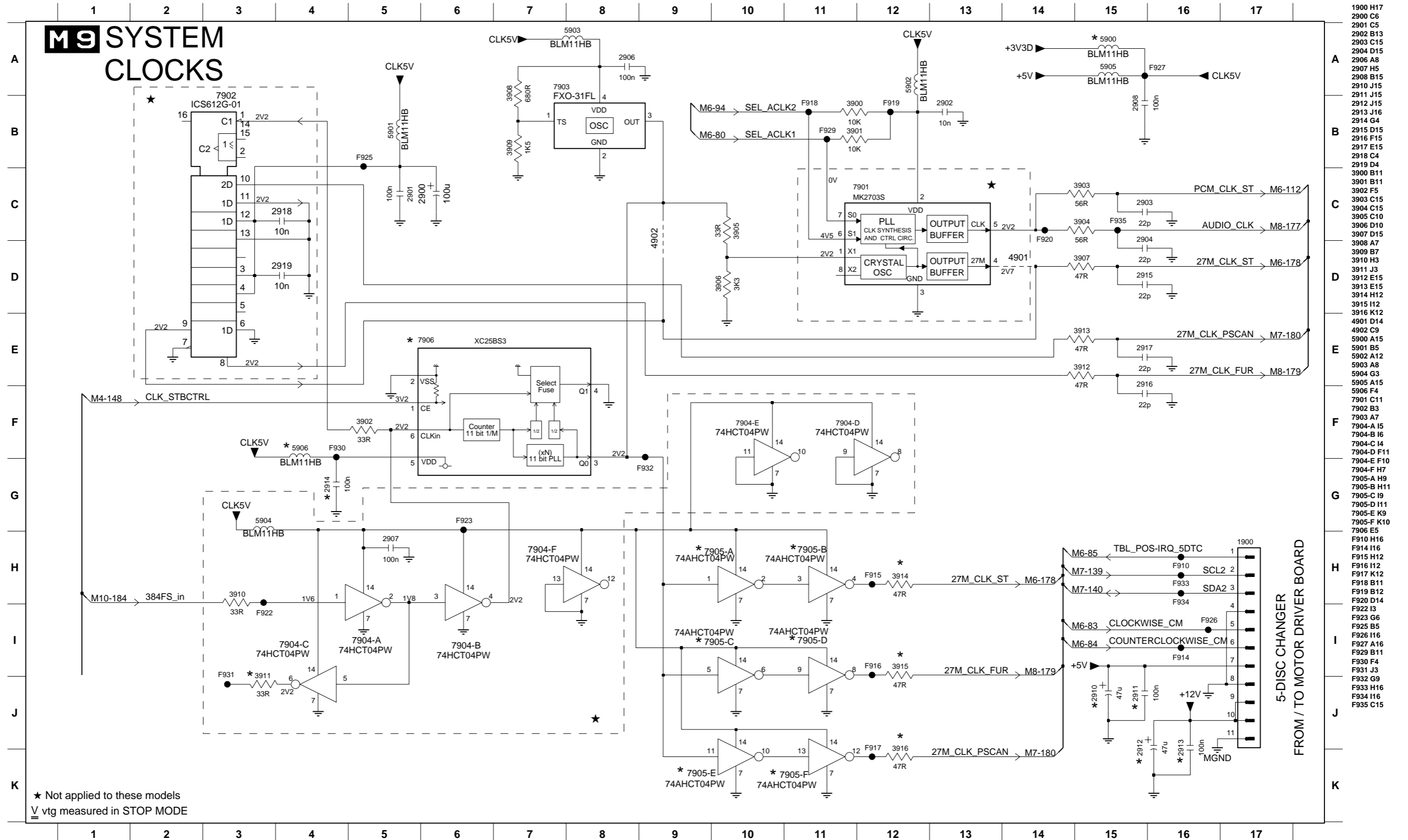
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This page is not applied to these models.



- 2800 A18
- 2801 A19
- 2802 A20
- 2803 A21
- 2804 A22
- 2805 A22
- 2806 A23
- 2807 A24
- 2808 A25
- 2809 A26
- 2810 L2
- 2811 L8
- 2812 L8
- 2813 K6
- 2814 L6
- 2815 O6
- 2816 M23
- 2817 C26
- 3800 F11
- 3801 K3
- 3802 L3
- 3803 L4
- 3804 L7
- 3805 L5
- 3806 L9
- 3807 L5
- 3808 M11
- 3809 M11
- 3810 O7
- 3811 P7
- 3812 F5
- 3813 G6
- 3814 K6
- 3815 L6
- 3816 I12
- 4002 O21
- 4800 N9
- 4803 K12
- 5800 N6
- 5801 L21
- 5802 O6
- 7800 D14
- 7801 K3
- 7802 O8
- 7803-A N23
- 7803-B O23
- 7803-C M22
- 7803-D M25
- F800 L6
- F801 L3
- F802 L8
- F804 N24
- F806 P21
- F809 L4
- F810 L9
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- F814 F6
- F815 M12
- F816 M12
- F817 F12
- F818 L6

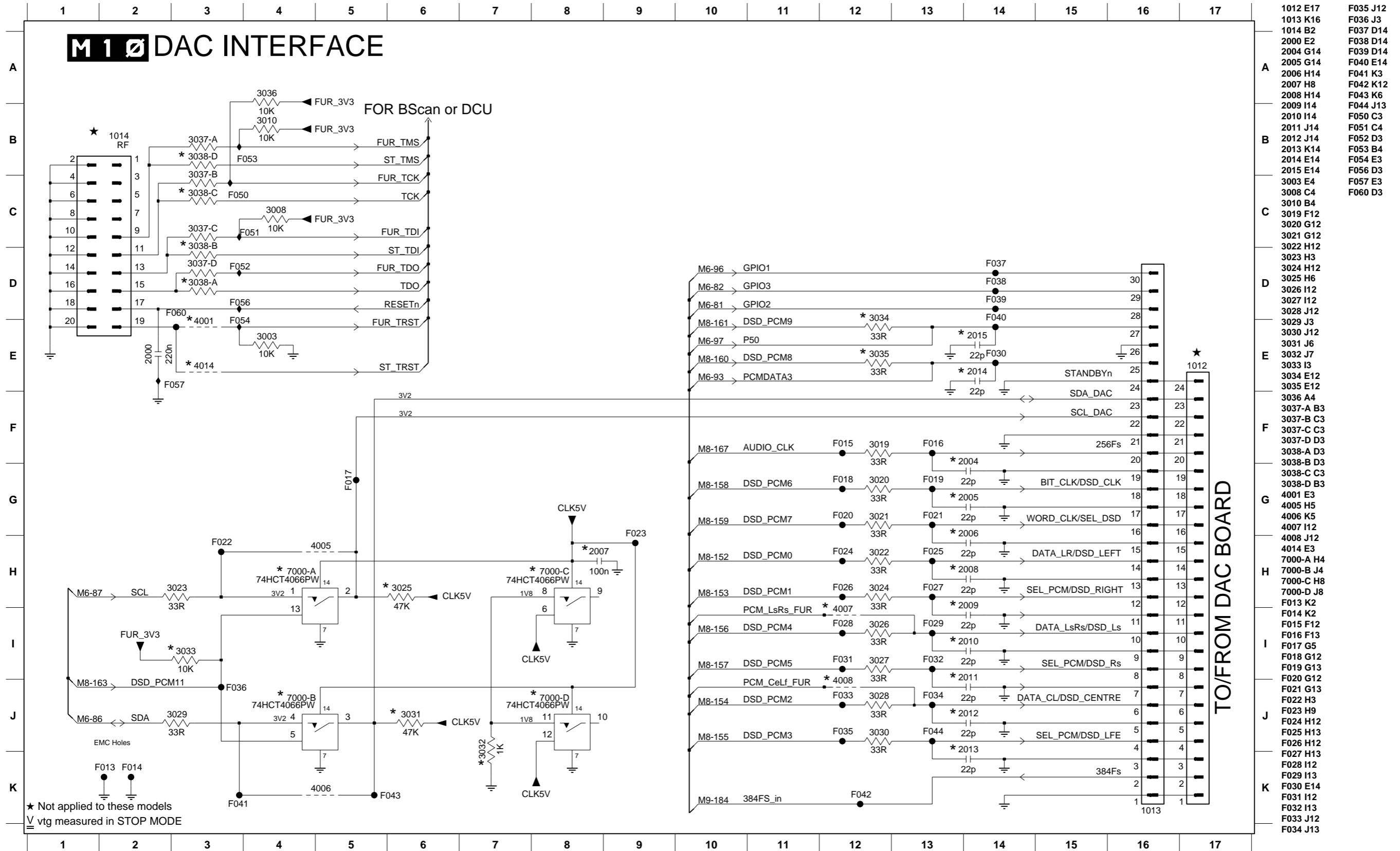
■ SCHEMATIC DIAGRAM (MONO 9/10)



- 1900 H17
- 2900 C6
- 2901 C5
- 2902 B13
- 2903 C15
- 2904 D15
- 2906 A8
- 2907 H5
- 2908 B15
- 2910 J15
- 2911 J15
- 2912 J15
- 2913 J16
- 2914 G4
- 2915 D15
- 2916 F15
- 2917 E15
- 2918 C4
- 2919 D4
- 3900 B11
- 3901 B11
- 3902 F5
- 3903 C15
- 3904 C15
- 3905 C10
- 3906 D10
- 3907 D15
- 3908 A7
- 3909 B7
- 3910 H3
- 3911 J3
- 3912 E15
- 3913 E15
- 3914 H12
- 3915 I12
- 3916 K12
- 4901 D14
- 4902 C9
- 5900 A15
- 5901 B5
- 5902 A12
- 5903 A8
- 5904 G3
- 5905 A15
- 5906 F4
- 7901 C11
- 7902 B3
- 7903 A7
- 7904-A 15
- 7904-B 16
- 7904-C 14
- 7904-D F10
- 7904-E F10
- 7904-F H7
- 7905-A H9
- 7905-B H11
- 7905-C 19
- 7905-D I11
- 7905-E K9
- 7905-F K10
- 7906 E5
- F910 H16
- F914 I16
- F915 H12
- F916 I12
- F917 K12
- F918 B11
- F919 B12
- F920 D14
- F922 I3
- F923 G6
- F925 B5
- F926 I16
- F927 A16
- F929 B11
- F930 F4
- F931 J3
- F932 G9
- F933 H16
- F934 I16
- F935 C15

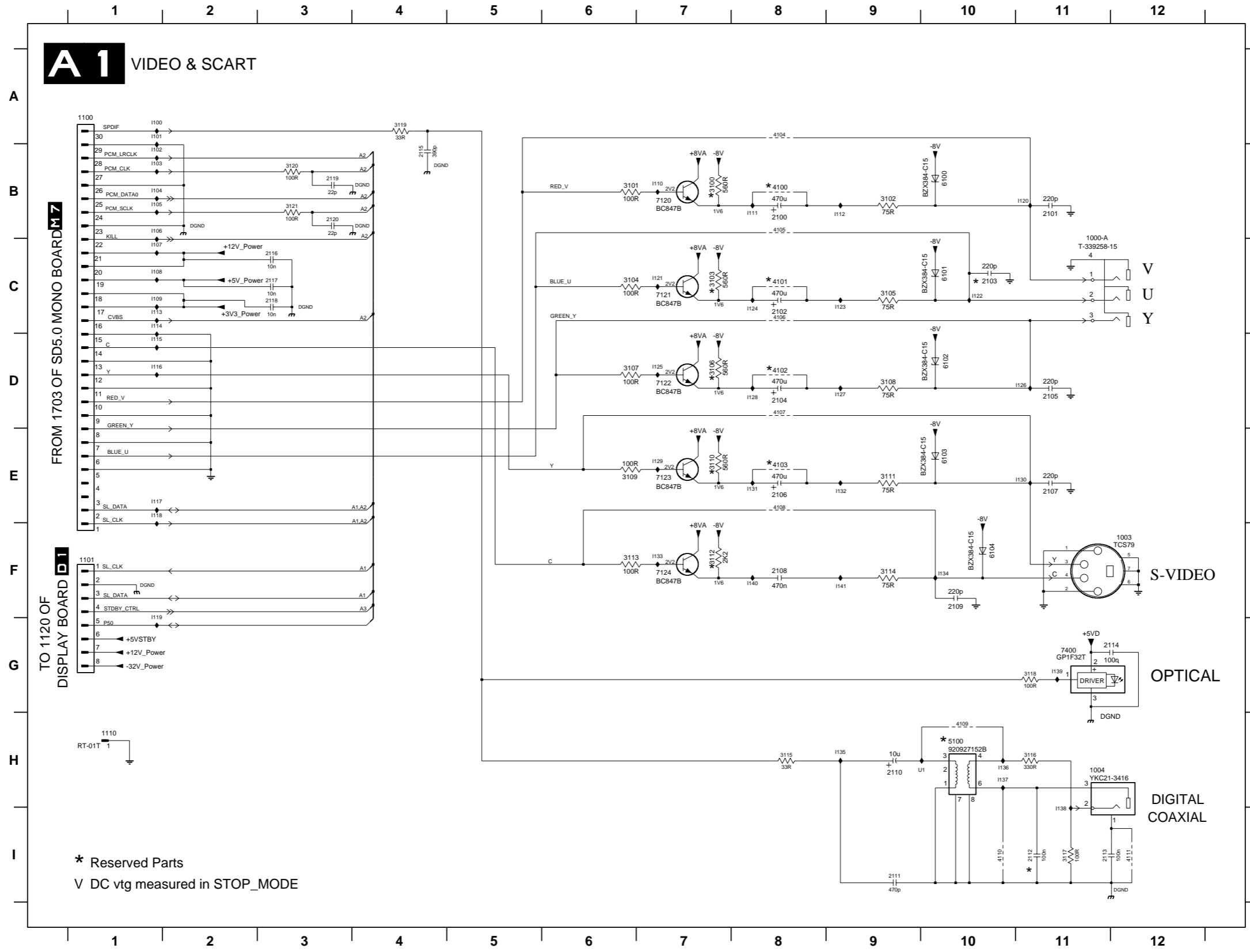
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (MONO 10/10)



* 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.

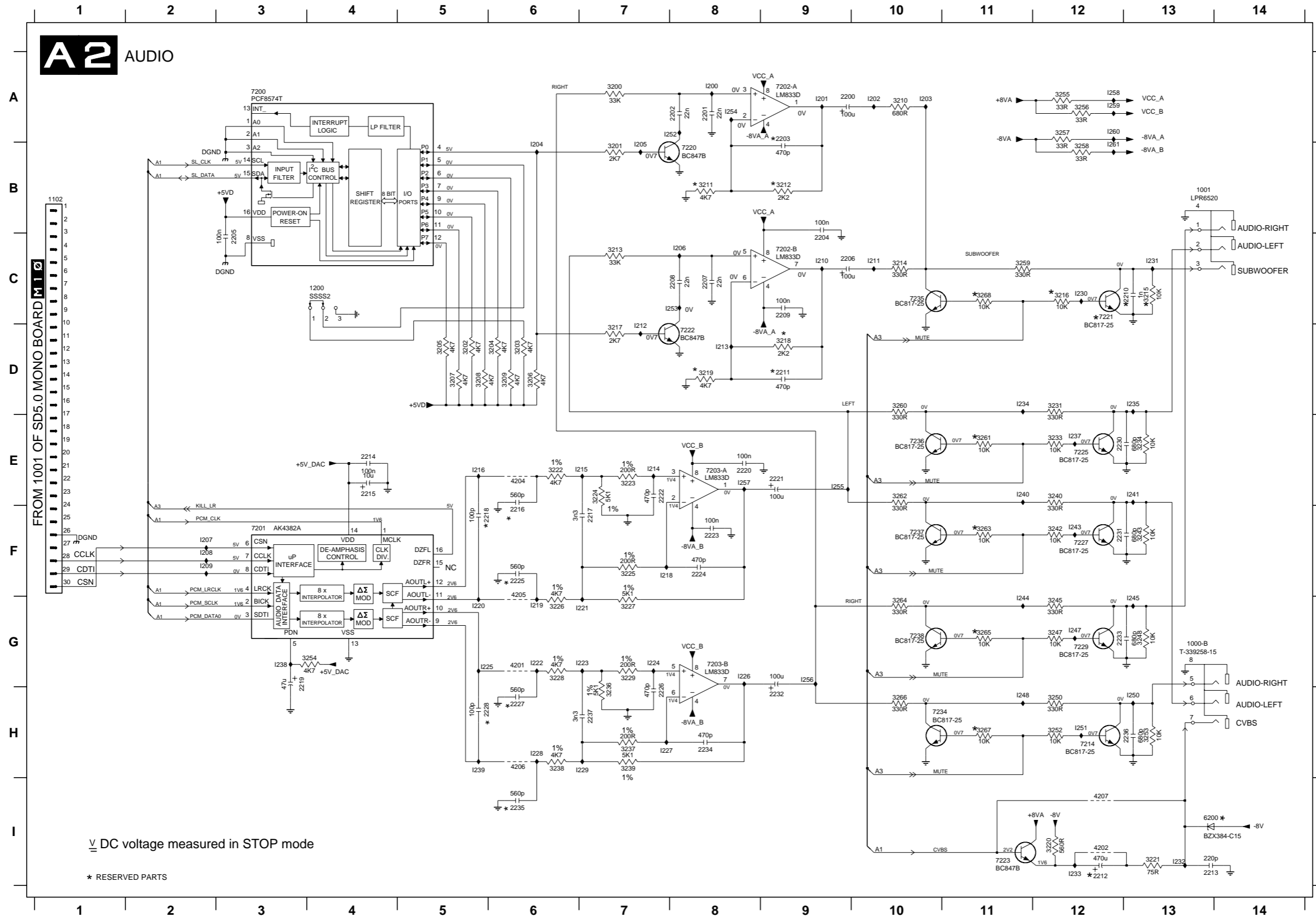
■ SCHEMATIC DIAGRAM (AV 1/3)



- U1 H10
- 1000-A C11
- 1003 F12
- 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 D8
- 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 H10
- 4111 H2
- 5100 H10
- 6100 B10
- 6101 C10
- 6102 D10
- 6103 E10
- 6104 F10
- 7120 B7
- 7121 C7
- 7122 D7
- 7123 E7
- 7124 F7
- 7400 G11
- H00 A1
- H01 A1
- H02 B1
- H03 B1
- H04 B1
- H05 B1
- H06 B1
- H07 C1
- H08 C1
- H09 C1
- H10 B7
- H11 B8
- H12 B9
- H13 C1
- H14 C1
- H15 D1
- H16 D1
- H17 E1
- H18 E1
- H19 F1
- H20 B11
- H21 C7
- H22 C10
- H23 C9
- H24 C8
- H25 D7
- H26 D11
- H27 D9
- H28 D8
- H29 E7
- H30 E11
- H31 E8
- H32 E9
- H33 F7
- H34 F10
- H35 H9
- H36 H10
- H37 H10
- H38 I11
- I139 G11
- I140 F8
- I141 F9

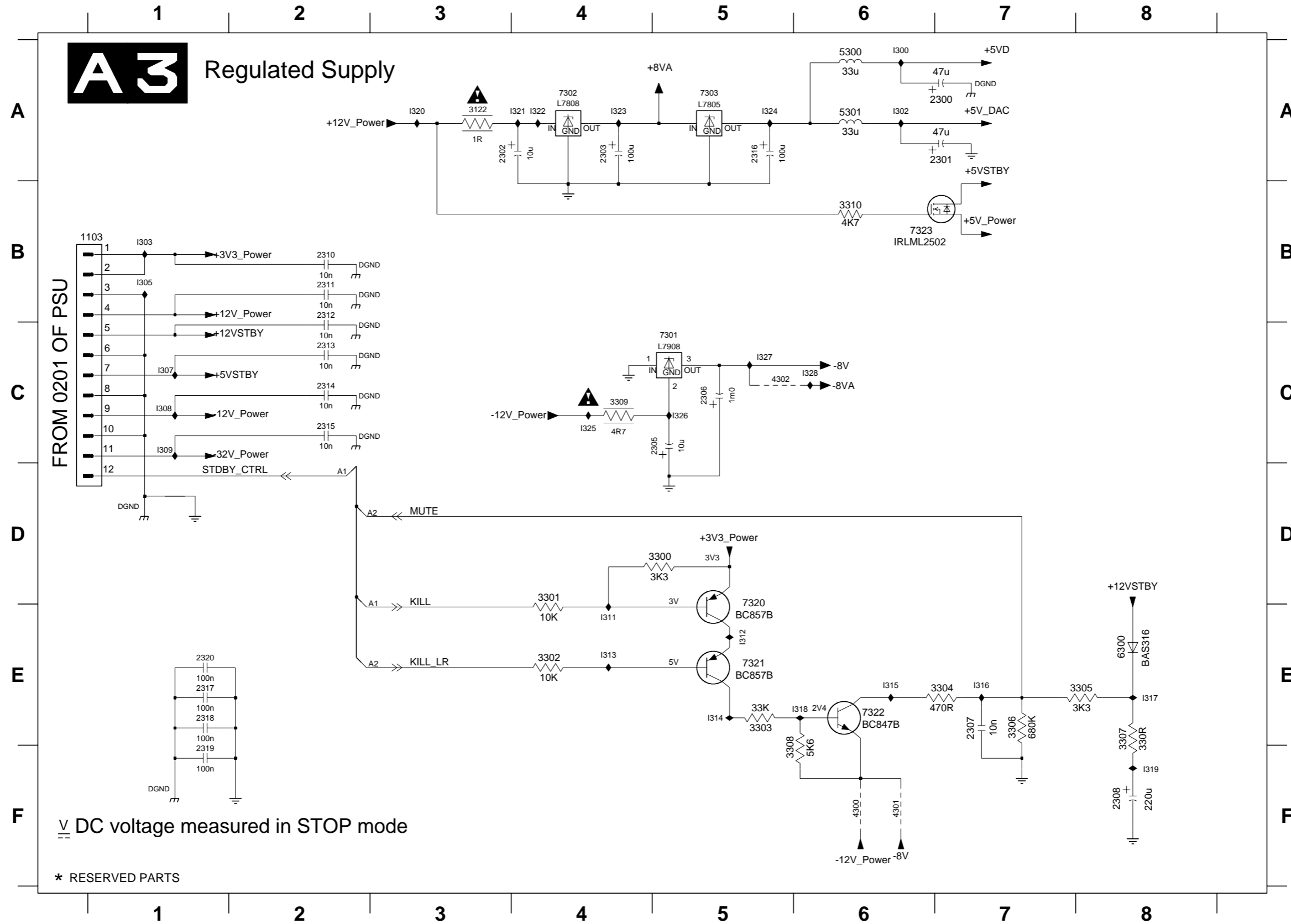
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

■ 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 H11
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	1200 A8
2210 C13	1201 A9
2211 D9	1202 A10
2212 H2	1203 A10
2213 H3	1204 B6
2214 E4	1205 F7
2215 E4	1206 C8
2216 F6	1207 F2
2217 F7	1208 F2
2218 F5	1209 F2
2219 G3	1210 C9
2220 E8	1211 C10
2221 E9	1212 D7
2222 E7	1213 D8
2223 F8	1214 E7
2224 F8	1215 E7
2225 F6	1216 E5
2226 H7	1218 F7
2227 H6	1219 G6
2228 H5	1220 G5
2230 E2	1221 G7
2231 F12	1222 G6
2232 H9	1223 G7
2233 G12	1224 G7
2234 H8	1225 G5
2235 H6	1226 G8
2236 H3	1227 H7
2237 H7	1228 H6

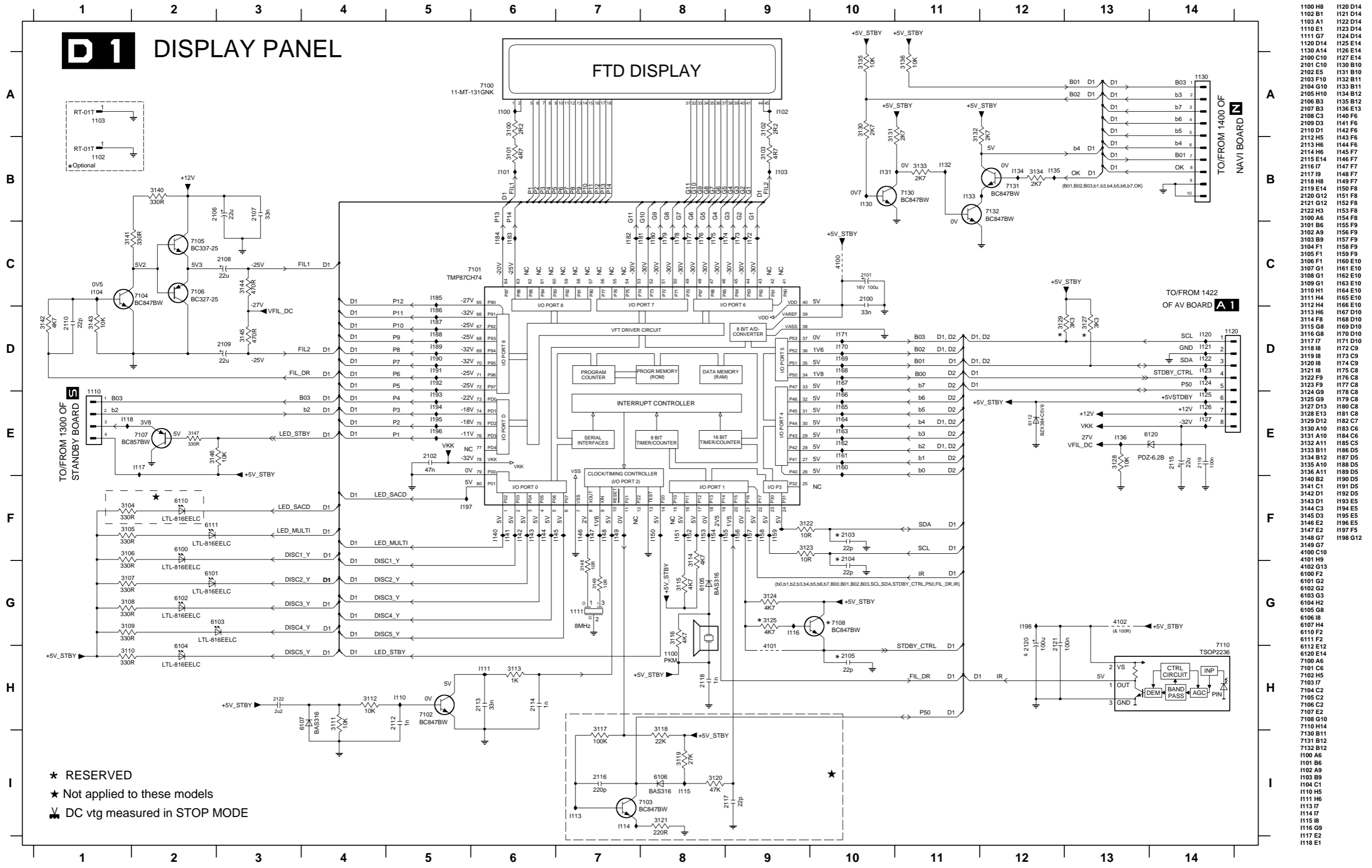
■ SCHEMATIC DIAGRAM (AV 3/3)



- 1103 B1
- 2300 A7
- 2301 A7
- 2302 A3
- 2303 A4
- 2305 C5
- 2306 C5
- 2307 E7
- 2308 F8
- 2310 B2
- 2311 B2
- 2312 B2
- 2313 C2
- 2314 C2
- 2315 C2
- 2316 A5
- 2317 E1
- 2318 E1
- 2319 F1
- 2320 E1
- 3122 A3
- 3300 D5
- 3301 D4
- 3302 E4
- 3303 E5
- 3304 E7
- 3305 E8
- 3306 E7
- 3307 E8
- 3308 F5
- 3309 C4
- 3310 B6
- 4300 F6
- 4301 F6
- 4302 C5
- 5300 A6
- 5301 A6
- 6300 E8
- 7301 C5
- 7302 A4
- 7303 A5
- 7320 D5
- 7321 E5
- 7322 E6
- 7323 B6
- I300 A6
- I302 A6
- I303 B1
- I305 B1
- I307 C1
- I308 C1
- I309 C1
- I311 E4
- I312 E5
- I313 E4
- I314 E5
- I315 E6
- I316 E7
- I317 E8
- I318 E6
- I319 F8
- I320 A3
- I321 A4
- I322 A4
- I323 A4
- I324 A5
- I325 C4
- I326 C5
- I327 C5
- I328 C6

* 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.

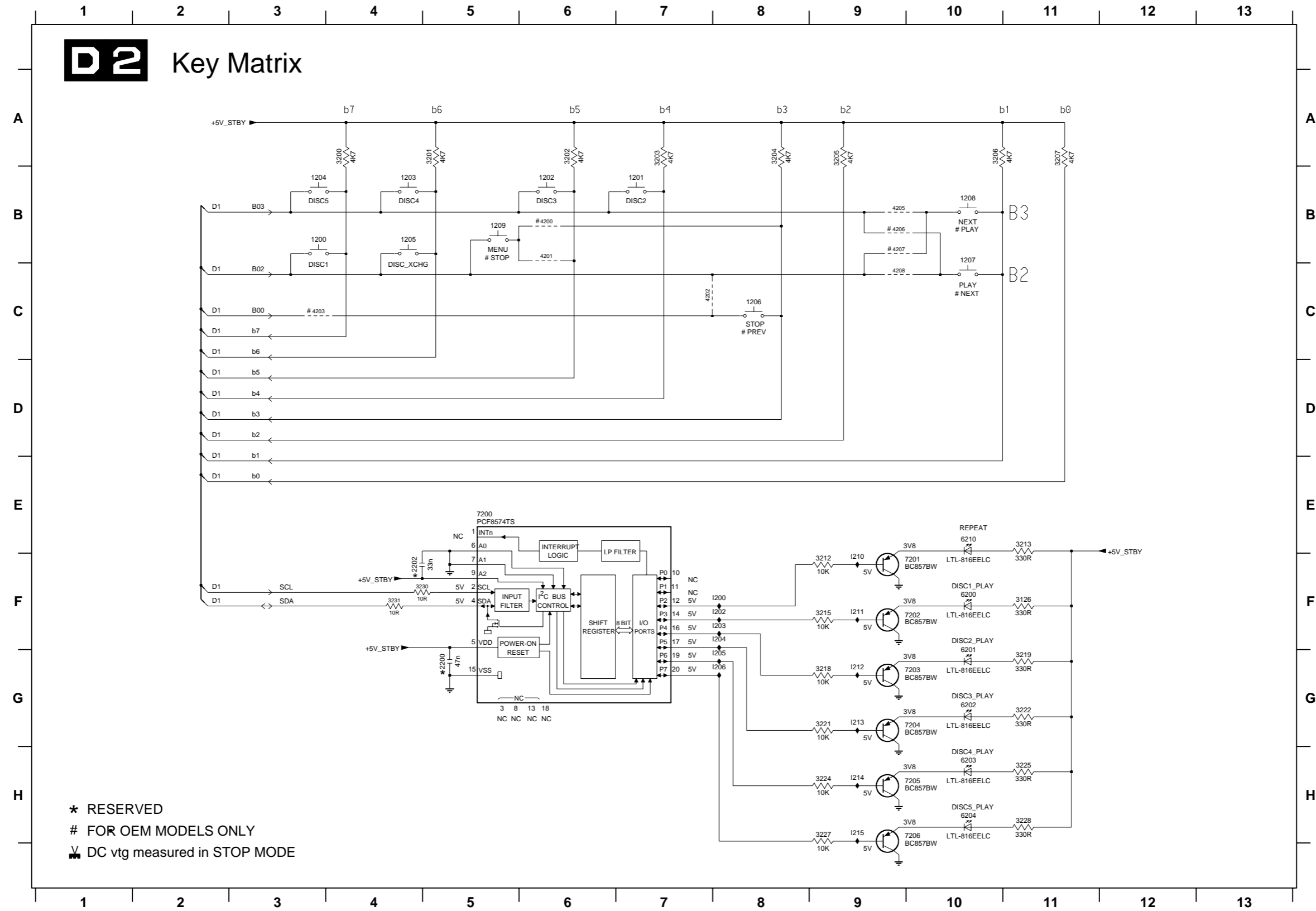
■ SCHEMATIC DIAGRAM (FRONT [1] 1/2)



- 1100 H8
- 1102 B1
- 1103 A1
- 1110 E1
- 1111 G7
- 1120 D14
- 1122 D14
- 1123 D14
- 1124 D14
- 1125 E4
- 1130 A14
- 1126 E14
- 2100 C10
- 2101 C10
- 2102 E5
- 2103 F10
- 2104 G10
- 2105 H10
- 2106 B3
- 2107 B3
- 2108 C3
- 2109 D3
- 2110 D1
- 2112 H5
- 2113 H6
- 2114 H6
- 2115 E14
- 2116 I7
- 2117 I9
- 2118 H8
- 2119 E14
- 2120 G12
- 2121 G12
- 2122 H3
- 3100 A6
- 3101 B6
- 3102 A9
- 3103 B9
- 3104 F1
- 3105 F1
- 3106 F1
- 3107 G1
- 3108 G1
- 3109 G1
- 3110 H1
- 3111 H4
- 3112 H4
- 3113 H6
- 3114 H6
- 3115 G8
- 3116 G8
- 3117 I7
- 3118 I8
- 3119 I8
- 3120 I8
- 3121 I8
- 3122 F9
- 3123 F9
- 3124 G9
- 3125 G9
- 3127 D13
- 3128 E13
- 3129 D12
- 3130 A10
- 3131 A10
- 3132 A11
- 3133 B11
- 3134 B12
- 3135 A10
- 3136 A11
- 3140 B2
- 3141 C1
- 3142 D1
- 3143 D1
- 3144 C3
- 3145 D3
- 3146 E2
- 3147 E2
- 3148 G7
- 3149 G7
- 4000 C10
- 4010 H9
- 4020 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
- 7000 A6
- 7100 C1
- 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
- 1113 I7
- 1114 I7
- 1115 I8
- 1116 G9
- 1117 E2
- 1118 E1
- 1120 D14
- 1121 D14
- 1122 D14
- 1123 D14
- 1124 D14
- 1125 E4
- 1126 E14
- 1127 E14
- 1130 B10
- 1131 B10
- 1132 B11
- 1133 B11
- 1134 B12
- 1135 B12
- 1136 E13
- 1140 F6
- 1141 F6
- 1142 F6
- 1143 F6
- 1144 F6
- 1145 F7
- 1146 F7
- 1147 F7
- 1148 F7
- 1149 F7
- 1150 F8
- 1151 F8
- 1152 F8
- 1153 F8
- 1154 F8
- 1155 F9
- 1156 F9
- 1157 F9
- 1158 F9
- 1159 F9
- 1160 F10
- 1161 E10
- 1162 E10
- 1163 E10
- 1164 E10
- 1165 E10
- 1166 E10
- 1167 D10
- 1168 D10
- 1169 D10
- 1170 D10
- 1171 D10
- 1172 C9
- 1173 C9
- 1174 C9
- 1175 C8
- 1176 C8
- 1177 C8
- 1178 C8
- 1179 C8
- 1180 C8
- 1181 C8
- 1182 C7
- 1183 C7
- 1184 C6
- 1185 C6
- 1186 D5
- 1187 D5
- 1188 D5
- 1189 D5
- 1190 D5
- 1191 D5
- 1192 D5
- 1193 E5
- 1194 E5
- 1195 E5
- 1196 E5
- 1197 F5
- 1198 G12

* 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 (FRONT [1] 2/2)

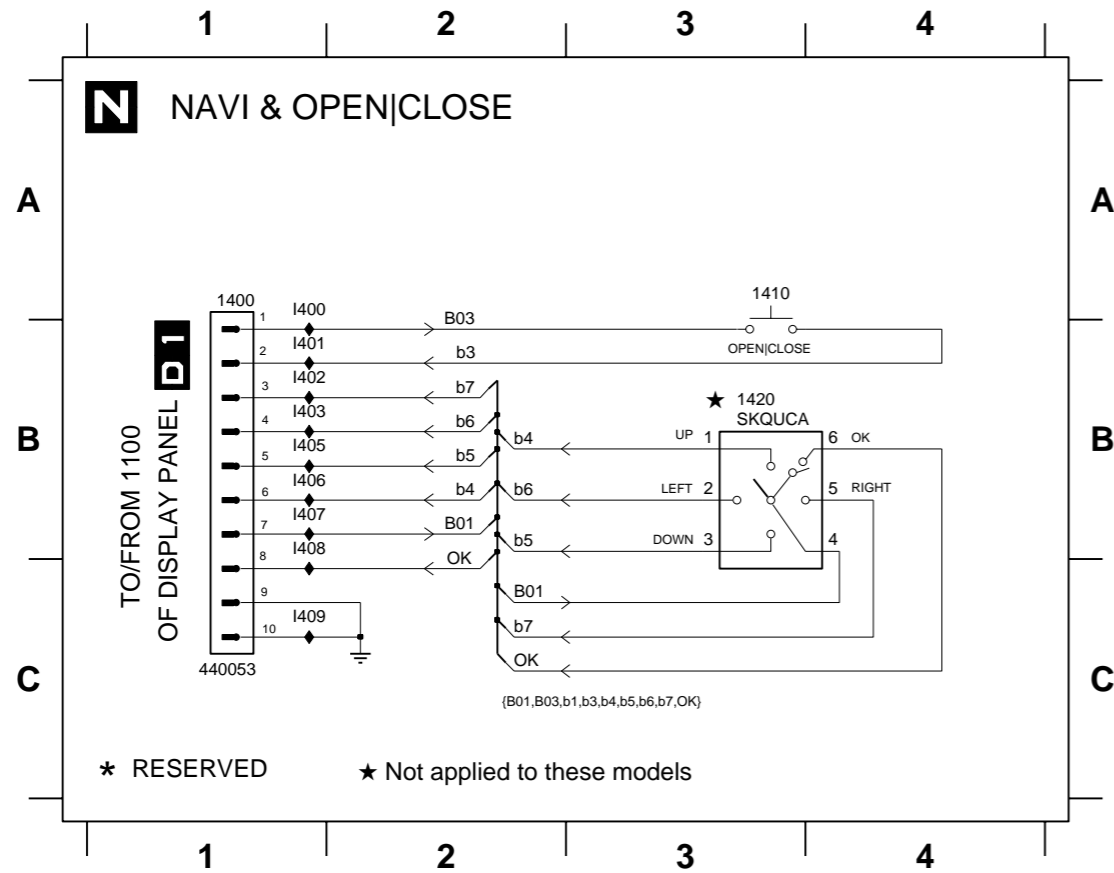


- 1200 B3
- 1201 B7
- 1202 B6
- 1203 B4
- 1204 B3
- 1205 B4
- 1206 C8
- 1207 B10
- 1208 B10
- 1209 B5
- 2200 G5
- 2202 F4
- 3126 F11
- 3200 A4
- 3201 A5
- 3202 A6
- 3203 A7
- 3204 A8
- 3205 A9
- 3206 A10
- 3207 A11
- 3212 F9
- 3213 E11
- 3215 F9
- 3218 G9
- 3219 G11
- 3221 G9
- 3222 G11
- 3224 H9
- 3225 H11
- 3227 H9
- 3228 H11
- 3230 F4
- 3231 F4
- 4200 B6
- 4201 B6
- 4202 C7
- 4203 C3
- 4205 B9
- 4206 B9
- 4207 B9
- 4208 C9
- 6200 F10
- 6201 G10
- 6202 G10
- 6203 H10
- 6204 H10
- 6210 E10
- 7200 E5
- 7201 F9
- 7202 F9
- 7203 G9
- 7204 G9
- 7205 H9
- 7206 H9
- I200 F8
- I202 F8
- I203 F8
- I204 F8
- I205 G8
- I206 G8
- I210 F9
- I211 F9
- I212 G9
- I213 G9
- I214 H9
- I215 H9

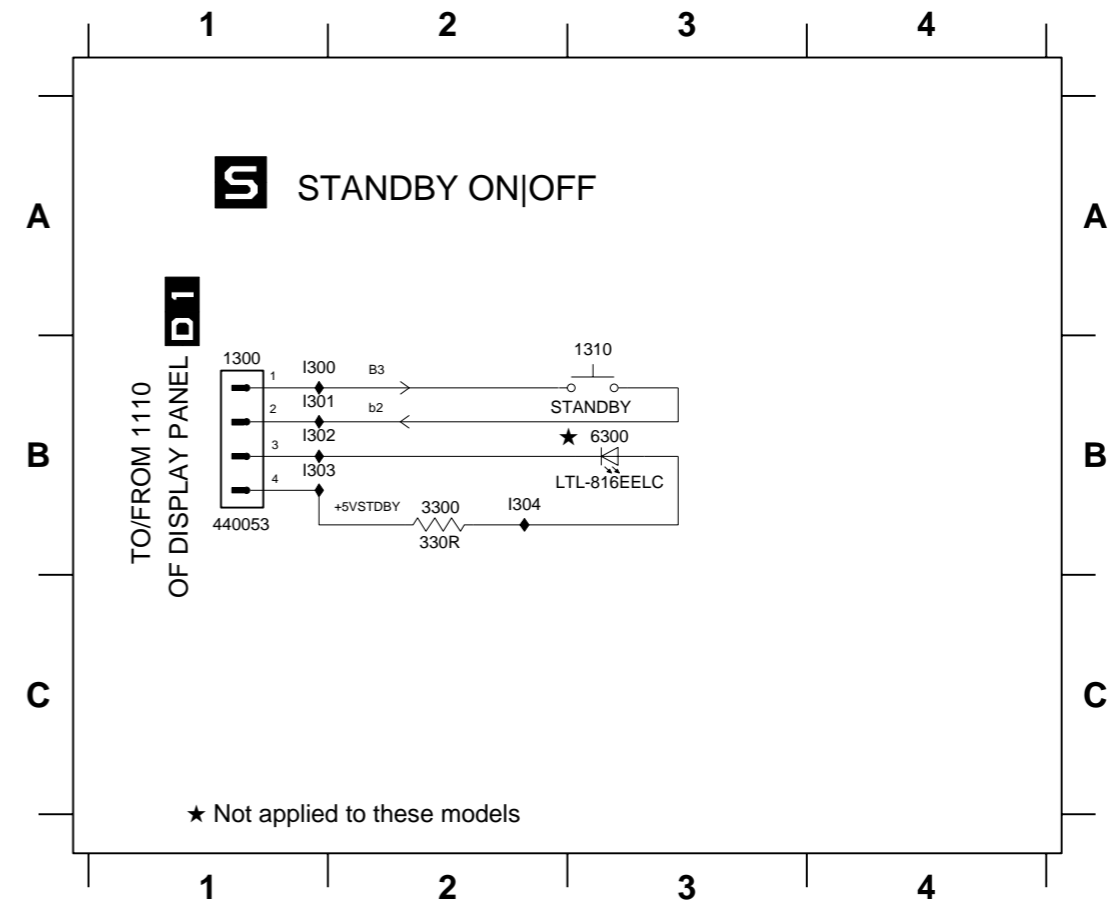
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (FRONT [2] & [3])

1400 A1 1420 B3 I401 B1 I403 B1 I406 B1 I408 B1
 1410 A3 I400 A1 I402 B1 I405 B1 I407 B1 I409 C1

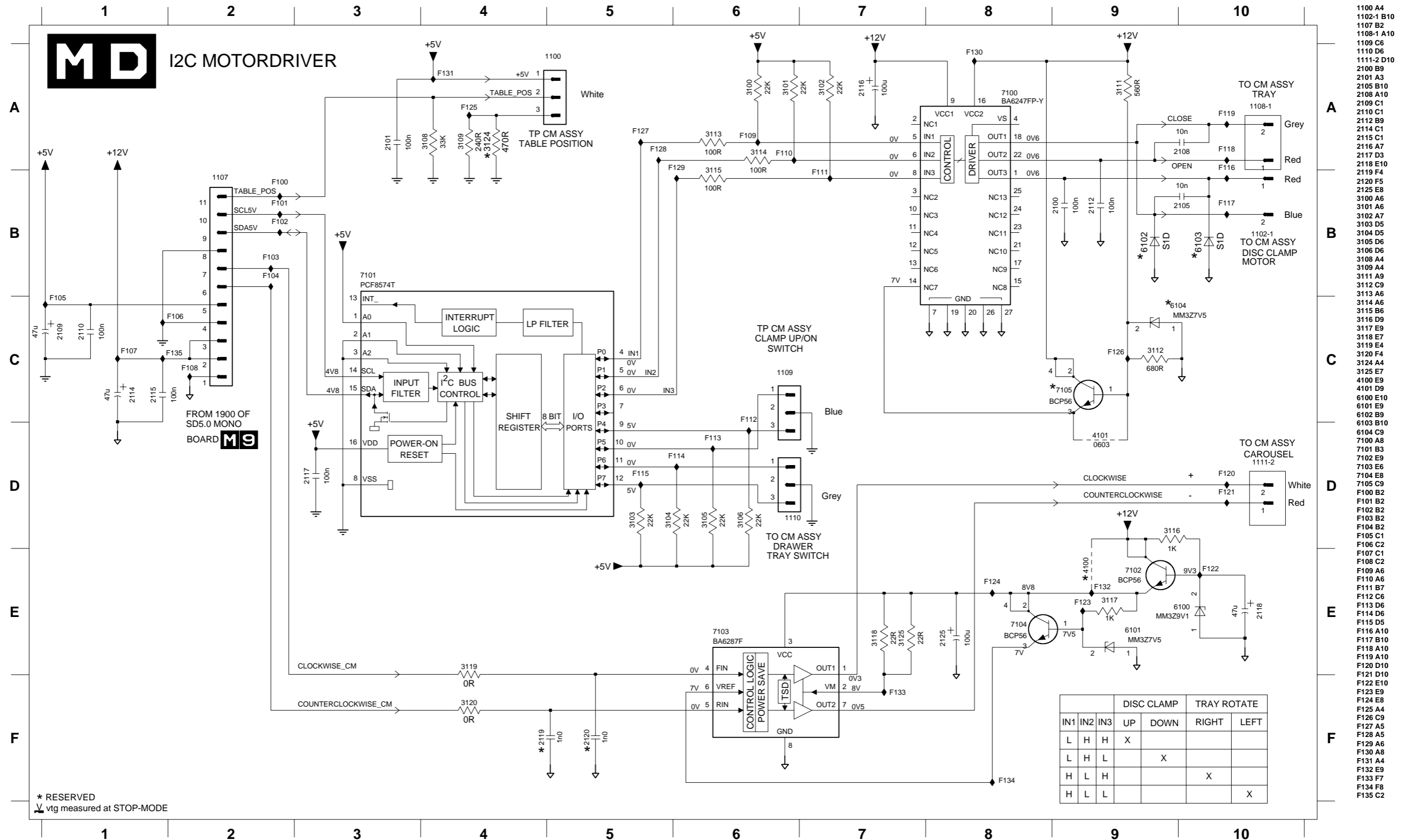


1300 B1 1310 B3 3300 B2 4300 C4 6300 B3



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 * Schematic diagram is subject to change without notice.

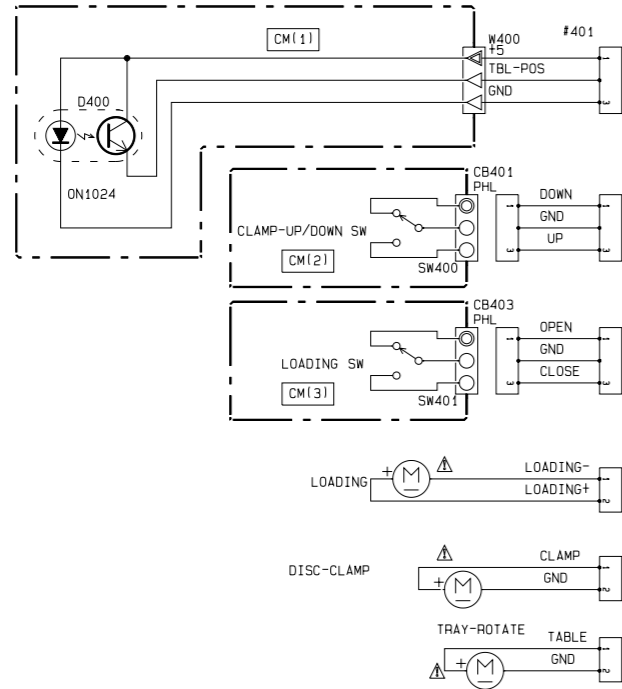
■ SCHEMATIC DIAGRAM (MOTOR DRIVER)



- 1100 A4
- 1102-1 B10
- 1107 B2
- 1108-1 A10
- 1109 C6
- 1110 D6
- 1111-2 D10
- 2100 B9
- 2101 A3
- 2105 B10
- 2108 A10
- 2109 C1
- 2110 C1
- 2112 B9
- 2114 C1
- 2115 C1
- 2116 A7
- 2117 D3
- 2118 E10
- 2119 F4
- 2120 F5
- 2125 E8
- 3100 A6
- 3101 A6
- 3102 A7
- 3103 D5
- 3104 D5
- 3105 D6
- 3106 D6
- 3108 A4
- 3109 A4
- 3111 A9
- 3112 C9
- 3113 A6
- 3115 B6
- 3116 D9
- 3117 E9
- 3118 E7
- 3119 E4
- 3120 F4
- 3124 A4
- 3125 E7
- 4100 E9
- 4101 D9
- 6100 E10
- 6101 E9
- 6102 B9
- 6103 B10
- 6104 C9
- 7100 A8
- 7101 B3
- 7102 E9
- 7103 E6
- 7104 E8
- 7105 C9
- F100 B2
- F101 B2
- F102 B2
- F103 B2
- F104 B2
- F105 C1
- F106 C2
- F107 C1
- F108 C2
- F109 A6
- F110 A6
- F111 B7
- F112 C6
- F113 D6
- F114 D6
- F115 D5
- F116 A10
- F117 B10
- F118 A10
- F119 A10
- F120 D10
- F121 D10
- F122 E10
- F123 E9
- F124 E8
- F125 A4
- F126 C9
- F127 A5
- F128 A5
- F129 A6
- F130 A8
- F131 A4
- F132 E9
- F133 A4
- F134 F7
- F135 C2

* 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.

1 ■ SCHEMATIC DIAGRAM (CM-PH1)



CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	#
⊗	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

* 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.

PARTS LIST

■ WARNING

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

■ ELECTRICAL PARTS

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.