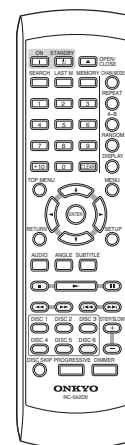
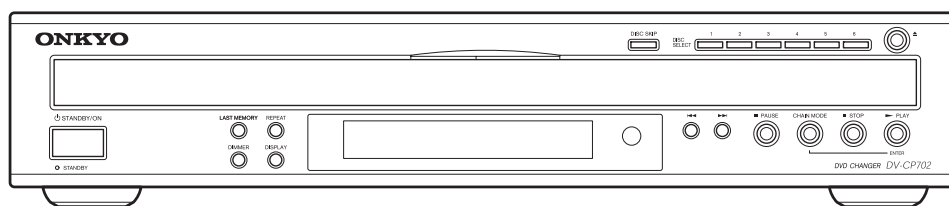


ONKYO SERVICE MANUAL

DVD CHANGER MODEL DV-CP702



RC-542DV

Black and Silver models

B CDD1N	120V AC, 60 Hz
S CDD1N	
B CPA4P	230-240V AC, 50/60 Hz
S CPA4P	

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS

Video system		Standard NTSC (U.S. model), PAL/AUTO (Australian model)
Region code		1 (U.S. model), 4 (Australian model)
Laser		Semiconductor laser, wavelength 650 nm (DVD), 780 nm (CD)
Frequency response	DVD linear audio	4 Hz-22 kHz @ 48 kHz sampling rate 4 Hz-44 kHz @ 96 kHz sampling rate
	CD audio	4 Hz-20 kHz
Signal-to-noise ratio (digital audio)		100 dB
Audio dynamic range (digital audio)		95 dB
Harmonic distortion (digital audio)		0.006%
Wow and Flutter		Below measurable level
Operating conditions	Temperature	5°C to 35°C (41° F to 95° F)
	Installation	Install horizontally
Video outputs	COMPONENT VIDEO	Y: 1.0 V (p-p), 75 ohm, negative sync, RCA/phono x3 Pb/PR: 0.7 V (p-p), 75 ohm
	S VIDEO (S-Video)	Y: 1.0 V (p-p), 75 ohm, negative sync, 4-pin mini DIN x1 C: 0.286 V (p-p), 75 ohm
	VIDEO (composite video)	1.0 V (p-p), 75 ohm, negative sync, RCA/phono x1
Audio outputs	OPTICAL	-22.5 dBm, optical connector x1
	COAXIAL	0.5 V (p-p), 75 ohm , RCA/phono x1
	ANALOG	2.0 V rms, 440 ohm, RCA/phono x2
General	Power supply	120 V AC, 60 Hz (U. S. model) 230-240 V AC, 50/60 Hz (Australian model)
	Power consumption	13 W
	Power consumption in Standby mode	0.95 W (U.S. model) 0.96 W (Australian model)
	Weight	5.3 kg (11.7 lbs.)
Dimensions (W x H x D)		435 X 91 X 432 mm (17-1/8 X 3-9/16 X 17)

Specifications and features subject to change without notice.

SERVICE PROCEDURES-1

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

SERVICE WARNING : DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICKUP BLOCK.

Laser Diode Properties

Wavelength: 650/780nm (DVD/CD)

WARNING

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

LASER WARNING

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

CAUTION:

VISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

CAUTION:

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

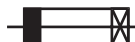
The label on the right is applied on the rear panel except for USA and Canadian models.



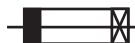
1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

SERVICE PROCEDURE

1. Replacing the fuses



This symbol located near the fuse indicates that the fuse used is show operating type, For continued protection against fire hazard, replace with same type fuse , For fuse rating, refer to the marking adjust to the symbol.



Ce symbole indique que le fusible utilise est e lent. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce demier est indique la qu le present symbol est appose.

LASER BEAM CAUTION LABEL



WAVE LENGTH:650nm
MAX LASER POWER:5mW
CLASS 1 LASER PRODUCT
06/19440



REF. NO.	PART NO.	DESCRIPTION
F1	5120-0130-0 or	1.6A-UL/T-237 <CDD1N>
	5120-1000-0	1.6A-T/UL-ST2 <CDD1N> North American area
F1	5120-0094-0 or	2.5A-SE-EAK <CPA4P>
	5120-1010-0	2.5A-SE-TL250V <CPA4P> Australian area

SERVICE PROCEDURES-2

2. Safety-check out

(Only U.S.A. model)

After correcting the original service problem perform the following safety check before releasing the set to the customer

Connect the insulating-resistance tester between the plug of power supply cord and terminal GND on the back panel.

Specifications: More than 10M ohm at 500V

INITIALIZING

Factory-shipped condition

Push button "ON" (Mechanical SW)

Press the [STOP] and [STANDBY] same time with NO DISC condition.

Push button "STANDBY".

After display "COMPLETE".

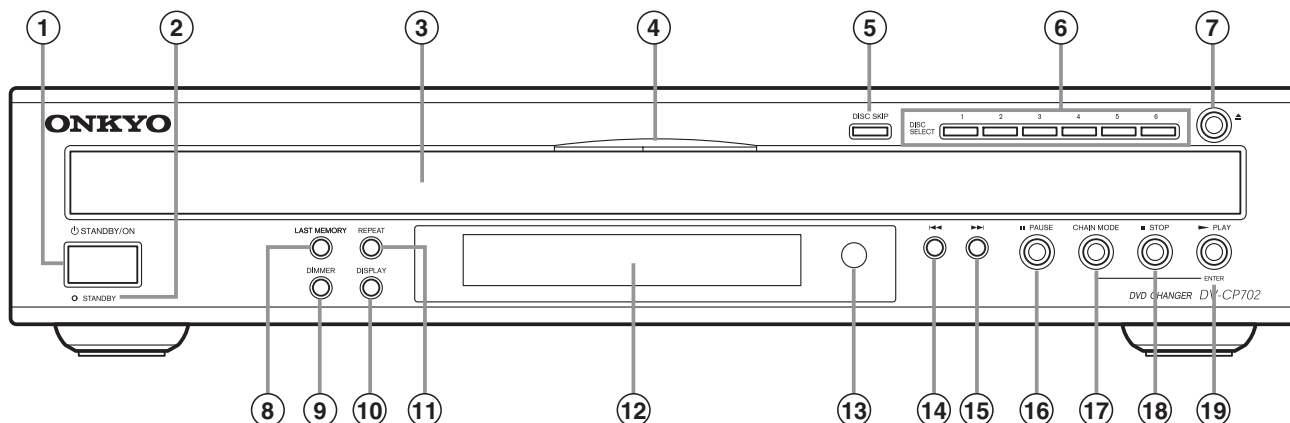
REMOVE THE SOLDER OF LASER DIODE SHORT

When replace the mechanism or DVD main PC board.

Shotting the solder of Shot-circuit land. (2 positions)

PANEL VIEW-1

FRONT PANEL



① STANDBY/ON button

This button is used to set the DV-CP702 to On or Standby.

Don't turn on the power until you've completed, and double checked all connections.

② STANDBY indicator

This indicator lights up when the DV-CP702 is in Standby mode.

③ Disc tray

The disc tray has six bays for loading up to six discs.

④ Disc tray light

This light illuminates the disc tray. It comes on when the DV-CP702 is turned on, and is brighter while the disc tray is open.

⑤ DISC SKIP button

This button is used to select the disc bays (i.e., rotate the disc tray) when loading or removing discs, and to select discs for playback.

⑥ DISC SELECT 1-6 buttons

These buttons are used to select discs. Playback starts automatically when a disc is selected with these buttons.

⑦ Open/Close [▲] button

This button is used to open and close the disc tray.

⑧ LAST MEMORY button

This button is used with the Last Memory function.

⑨ DIMMER button

This button is used to adjust the display brightness.

⑩ DISPLAY button

This button is used to display information about the current disc, title, chapter, or track, including the elapsed time, remaining time, total time, and so on.

⑪ REPEAT button

This button is used with the Repeat function.

⑫ Display

⑬ Remote control sensor

This sensor receives control signals from the remote controller.

⑭ Previous [◀] button

This button is used to select the previous chapter or track. During playback it selects the beginning of the current chapter or track.

⑮ Next [▶] button

This button is used to select the next chapter or track.

⑯ PAUSE [⏸] button

This button is used to pause playback.

⑰ CHAIN MODE button

This button is used with the Chain mode function.

⑱ STOP [■] button

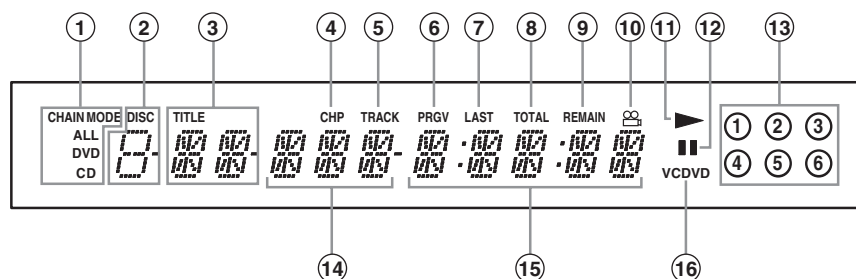
This button is used to stop playback.

⑲ PLAY/ENTER [▶] button

This button is used to start playback and to cancel fast forward and fast reverse. It's also used to start Chain mode playback.

PANEL VIEW-2

DISPLAY



① CHAIN MODE, ALL, DVD & CD indicators

The CHAIN MODE indicator appears when the Chain mode function is on. The ALL, DVD, and CD indicators show the type or Chain mode selected.

② DISC indicator

The number of the currently selected disc appears here.

③ TITLE indicator

While stopped, the total number of titles on the current DVD-Video disc is displayed here. During playback, the number of the current title is displayed.

④ CHP indicator

This indicator appears while the number of the current chapter is being displayed.

⑤ TRACK indicator

This indicator appears while track numbers are being displayed. While stopped, the total number of tracks on the current Video CD, audio CD, or MP3/WMA disc are displayed. During playback, the number of the current track is displayed.

⑥ PRGV indicator

This indicator appears when the Progressive Scanning function is on.

⑦ LAST indicator

This indicator appears when the Last Memory function has been set.

⑧ TOTAL indicator

This indicator appears while the total time is being displayed.

⑨ REMAIN indicator

This indicator appears while the remaining time is being displayed.

⑩ Camera angle indicator

This indicator appears if the DVD-Video disc being played features multiple camera angles.

⑪ Play indicator

This indicator is shown during playback.

⑫ Pause indicator

This indicator appears when playback is paused.

⑬ Disc indicators 1-6

These indicators show how many discs are loaded. The number of the current disc has a circle around it.

When the disc tray is closed, all of the disc indicators appear until the DV-CP702 has checked each bay for the presence of a disc. If a bay is found to have no disc, the corresponding indicator disappears.

⑭ Chapter & track number

Chapter and track numbers appears here.

⑮ Time display

Time information, such as total time, remaining time, and so on, is displayed here in hours, minutes, and seconds. Other messages are also displayed.

⑯ VCDVD indicator

This indicator shows the type of disc currently selected:

DVD: DVD-Video, DVD-R, or DVD-RW

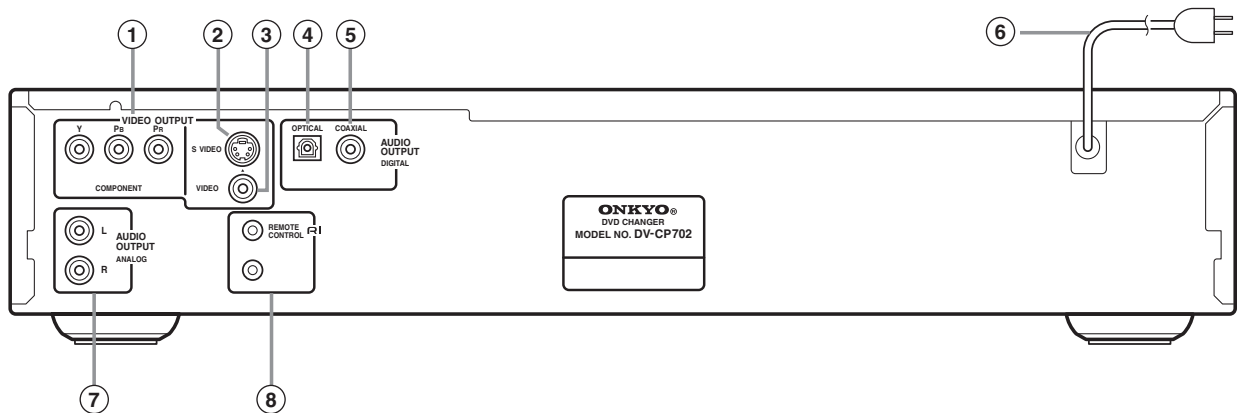
VCD: Video CD

CD: Audio CD, MP3/WMA/JPEG CD-R, or CD-RW



PANEL VIEW-3

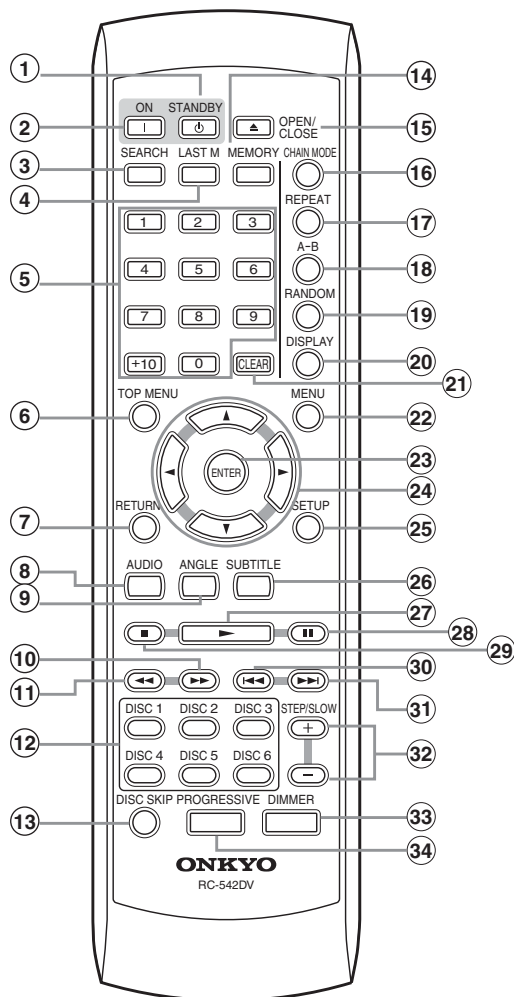
REAR PANEL



- ① **COMPONENT VIDEO OUTPUT**
These RCA/phono connectors can be used to connect a TV or projector with component video inputs.
- ② **S VIDEO OUTPUT**
This connector can be used to connect a TV or projector with an S-Video input.
- ③ **VIDEO OUTPUT**
This RCA/phono connector can be used to connect a TV or projector with a composite video input.
- ④ **OPTICAL AUDIO OUTPUT**
This optical digital audio output can be connected to an optical digital audio input on a hi-P amp, AV receiver, or surround sound decoder (Dolby Digital, DTS).
- ⑤ **COAXIAL AUDIO OUTPUT**
This coaxial digital audio output can be connected to an coaxial digital audio input on a hi-P amp, AV receiver, or surround sound decoder (Dolby Digital, DTS).
- ⑥ **Power cord**
This power cord should be connected to a suitable wall outlet.
- ⑦ **ANALOG AUDIO OUTPUT**
These RCA/phono connectors can be connected to analog audio inputs on a hi-P amp, AV receiver, or surround sound decoder (Dolby Pro Logic).
- ⑧ **RI REMOTE CONTROL**
These **RI** (Remote Interactive) connectors can be connected to the **RI** connectors on your other Onkyo AV components for interactive control.

PANEL VIEW-4

REMOTE CONTROLLER-1



- ① **STANDBY button**
This button is used to set the DV-CP702 to Standby.
- ② **ON button**
This button is used to turn on the DV-CP702.
Don't turn on the DV-CP702 until you've completed, and double checked all connections.
- ③ **SEARCH button**
This button is used to search for titles, chapters, tracks, and specific points in time.
- ④ **LAST M button**
This button is used with the Last Memory function.
- ⑤ **Number buttons**
These buttons are used to enter title, chapter, and track numbers and to enter times for locating specific points in time.
To enter a single-digit number, simply press the corresponding button. To enter a double-digit number, enter the numbers in order from left-to-right.
The [+10] button is used to enter multiples of ten (i.e., 10, 20, 30, and so on). For example, to enter the number 25, press the [+10] button twice followed by the [5] button.
- ⑥ **TOP MENU button**
This button is used to select the top menu.
- ⑦ **RETURN button**
This button is used to exit the onscreen setup menu and to restart menu playback.
- ⑧ **AUDIO button**
This button is used to select foreign language soundtracks and audio formats (e.g., Dolby Digital or DTS).
- ⑨ **ANGLE button**
This button is used to select different camera angles.
- ⑩ **Fast Forward [▶▶] button**
This button is used to start fast forward.
- ⑪ **Fast Reverse [◀◀] button**
This button is used to start fast reverse.
- ⑫ **DISC 1-6 buttons**
These buttons are used to select discs. Playback starts automatically when a disc is selected with these buttons.
- ⑬ **DISC SKIP button**
This button is used to select the disc bays (i.e., rotate the disc tray) when loading or removing discs, and to select discs for playback.
- ⑭ **MEMORY button**
This button is used with the Memory Playback function.
- ⑮ **OPEN/CLOSE [▲] button**
This button is used to open and close the disc tray.
- ⑯ **CHAIN MODE button**
This button is used with the Chain mode function.

PANEL VIEW-5

REMOTE CONTROLLER-2

- ①⑦ **REPEAT button**
This button is used to set the Repeat Playback functions.
- ①⑧ **A-B button**
This button is used to set the A-B Repeat Playback function.
- ①⑨ **RANDOM button**
This button is used with the Random Playback function.
- ②⑩ **DISPLAY button**
This button is used to display information about the current disc, title, chapter, or track, including the elapsed time, remaining time, total time, and so on.
- ②① **CLEAR button**
This button is used to cancel various functions.
- ②② **MENU button**
This button is used to select the menu.
- ②③ **ENTER button**
This button is used to start playback of the selected title chapter, or track and to confirm settings.
- ②④ **[▲], [▼], [◀], [▶] buttons**
These buttons are used to navigate DVD-Video menus and the onscreen setup menus.
- ②⑤ **SETUP button**
This button is used to open and close the onscreen setup menus.
- ②⑥ **SUBTITLE button**
This button is used to select subtitles.
- ②⑦ **Play [▶] button**
This button is used to start playback.
- ②⑧ **Pause [⏸] button**
This button is used to pause playback.
- ②⑨ **Stop [■] button**
This button is used to stop playback.
- ③⑩ **Previous [◀◀] button**
This button is used to select the previous chapter or track. During playback it selects the beginning of the current chapter or track.
- ③① **Next [▶▶] button**
This button is used to select the next chapter or track.
- ③② **STEP/SLOW [+] & [-] buttons**
These buttons are used with the Frame-by-Frame Playback and Slow Motion Playback functions.
- ③③ **DIMMER button**
This button is used to adjust the display brightness.
- ③④ **PROGRESSIVE button**
This button is used to turn on and off the Progressive Scanning function. Progressive scanning can't be turned on or off during playback.

A

B

C

D

EXPLODED VIEW

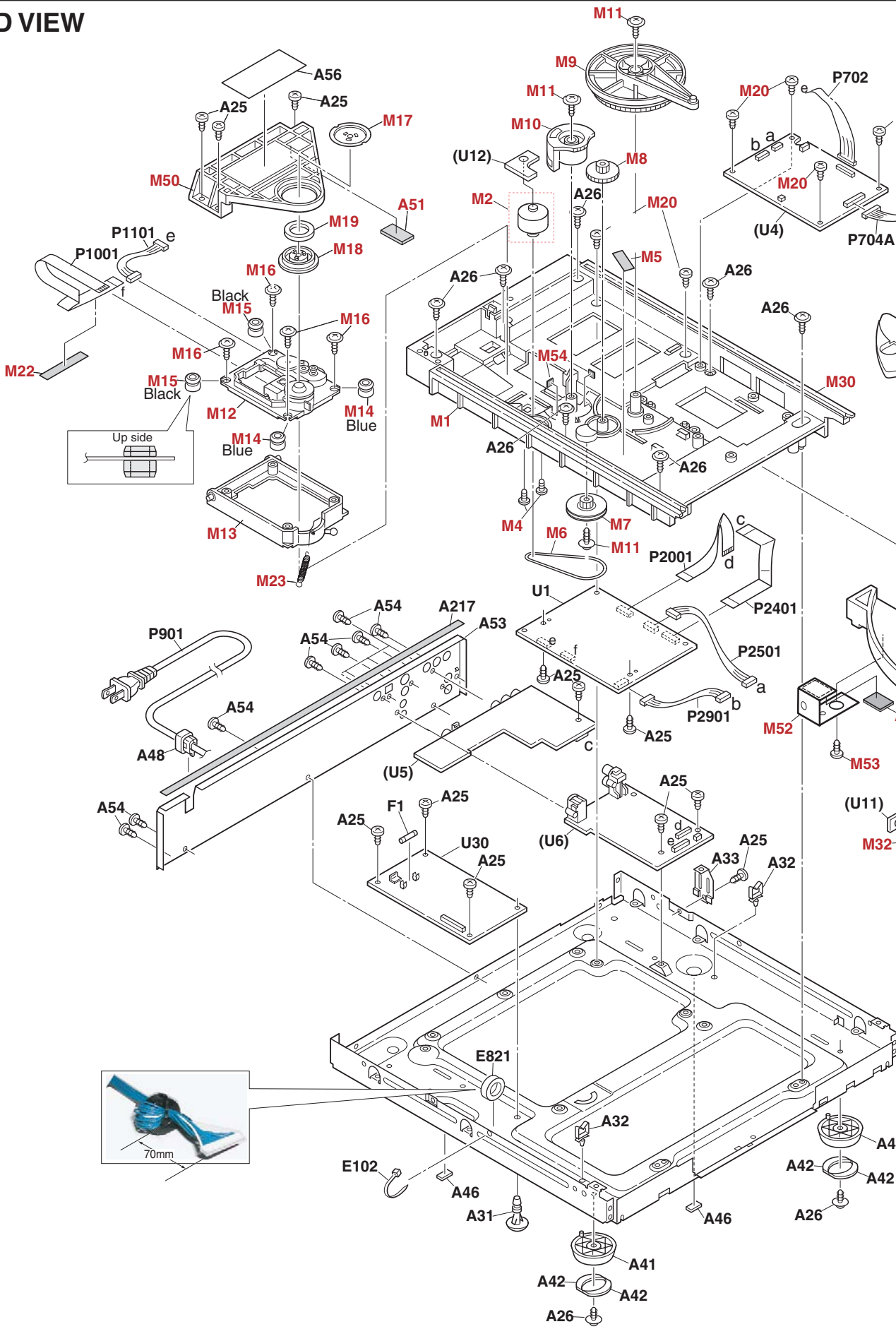
1

2

3

4

5

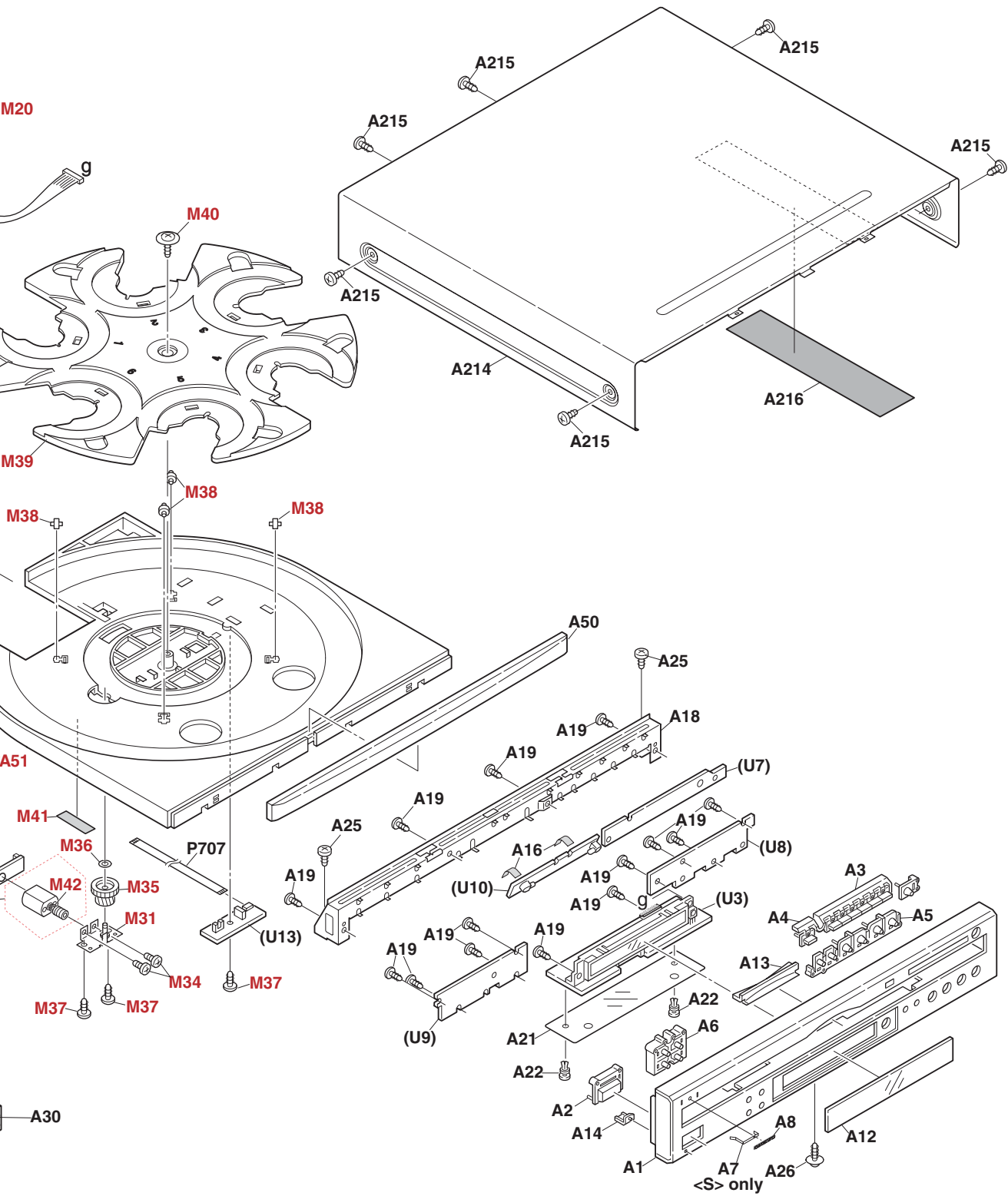


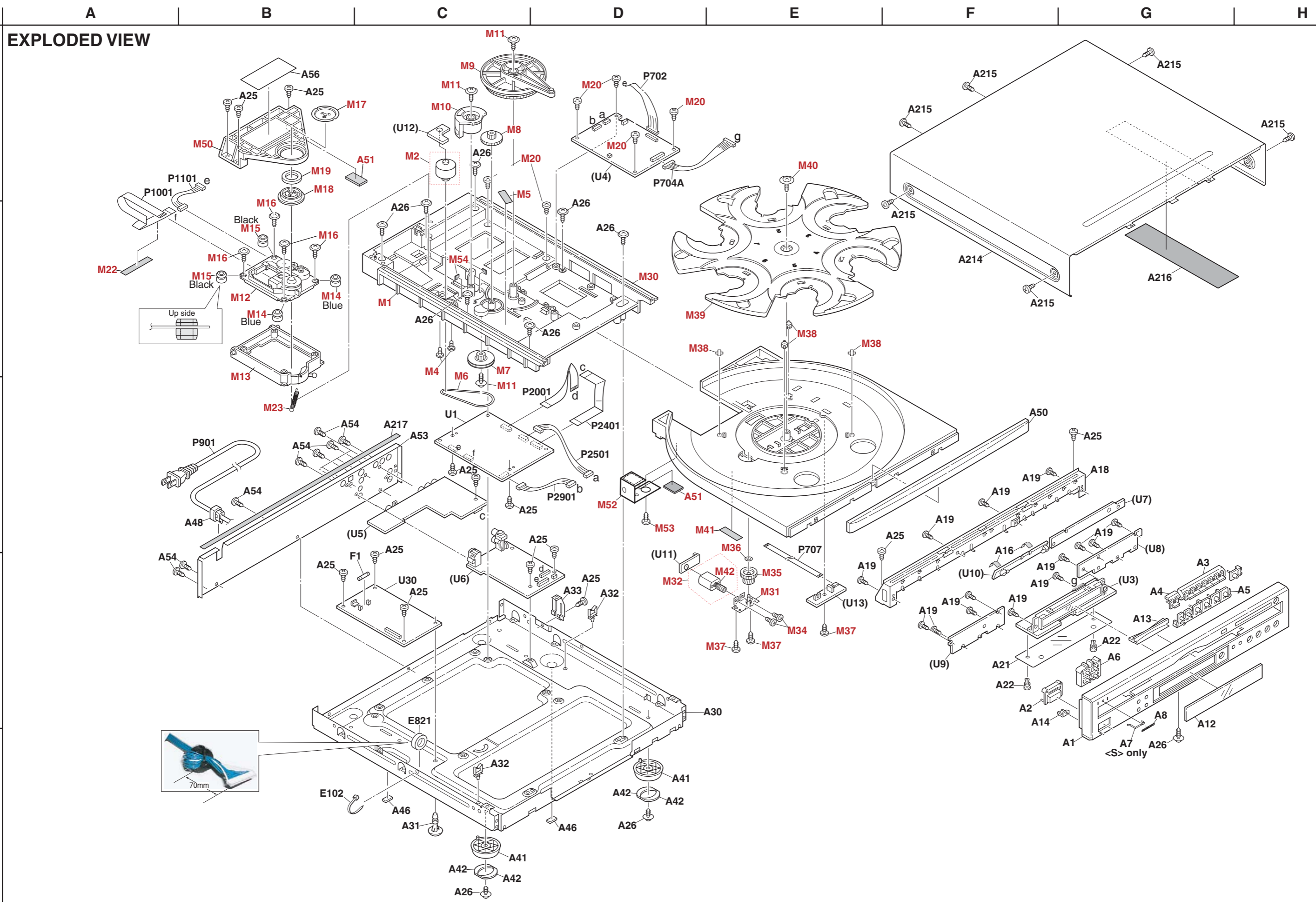
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H





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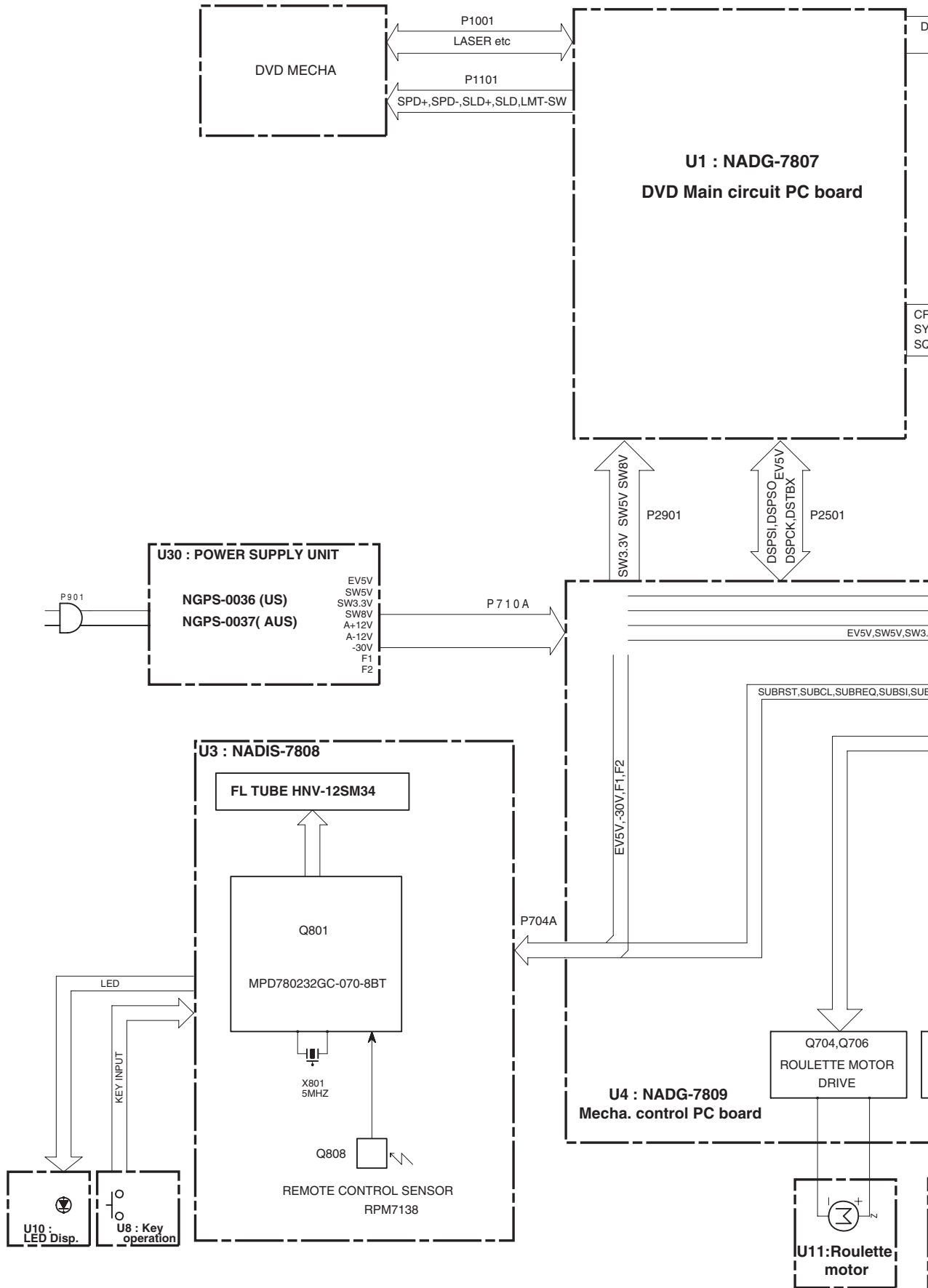
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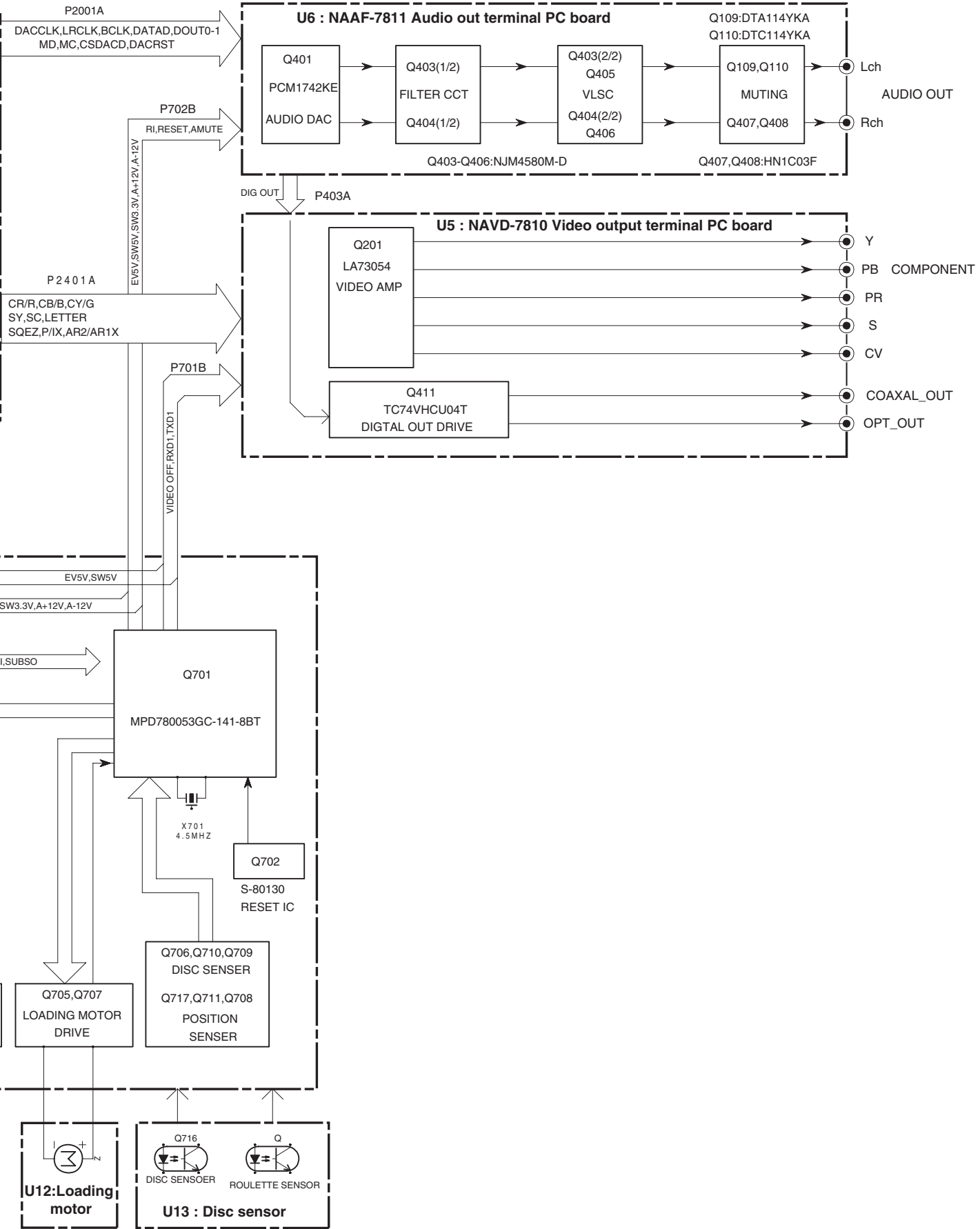
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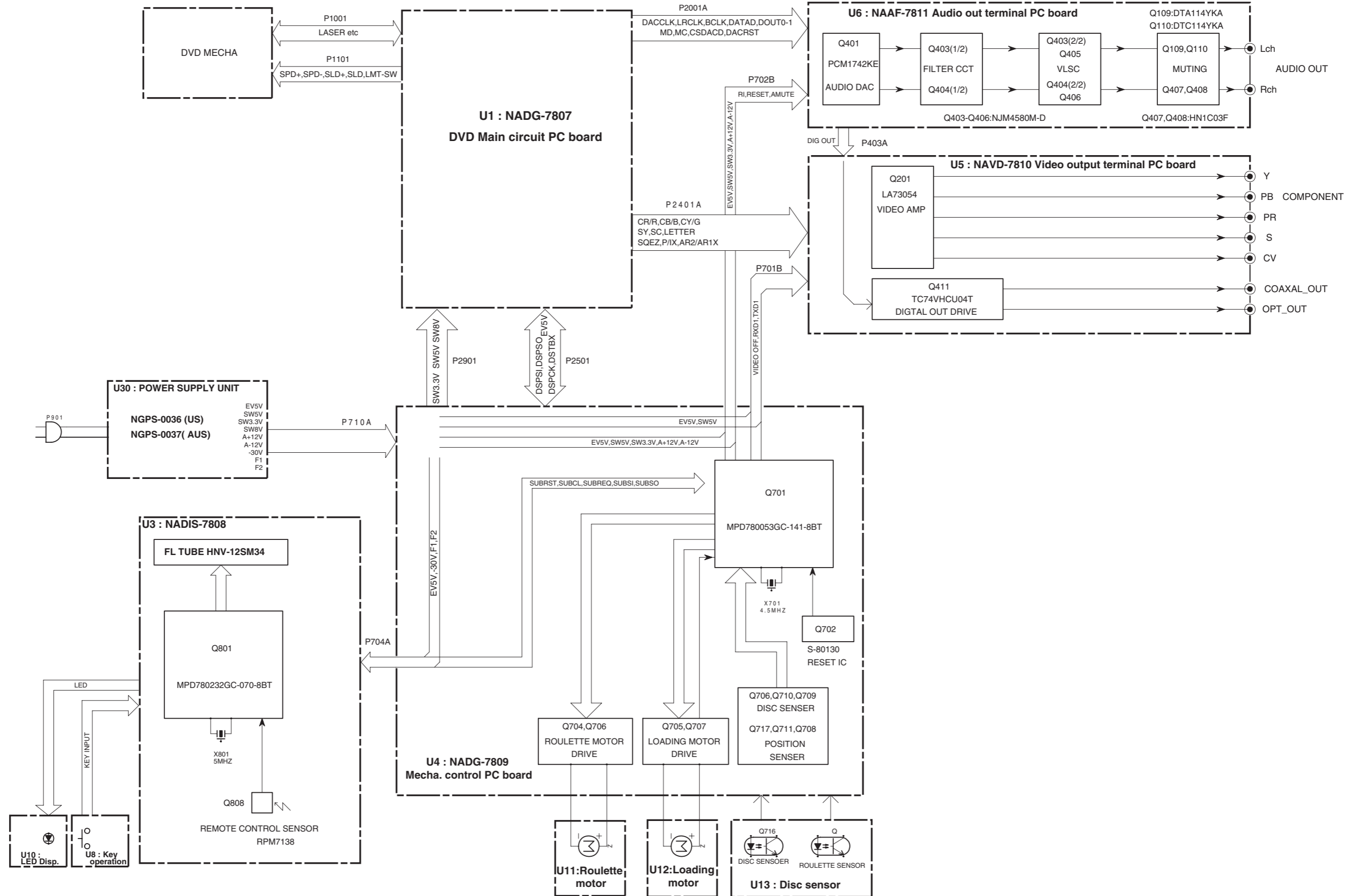
5

BLOCK DIAGRAM

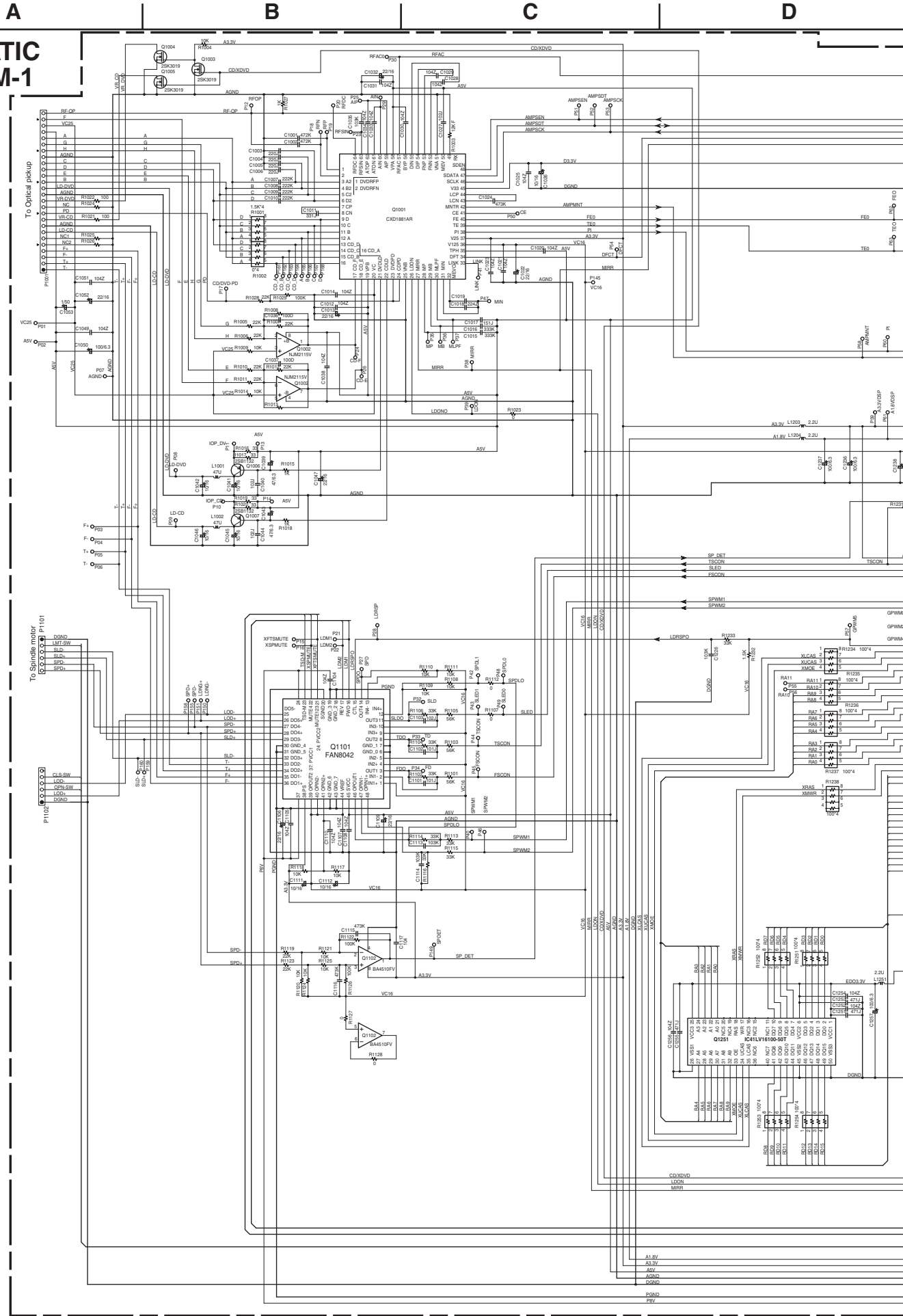




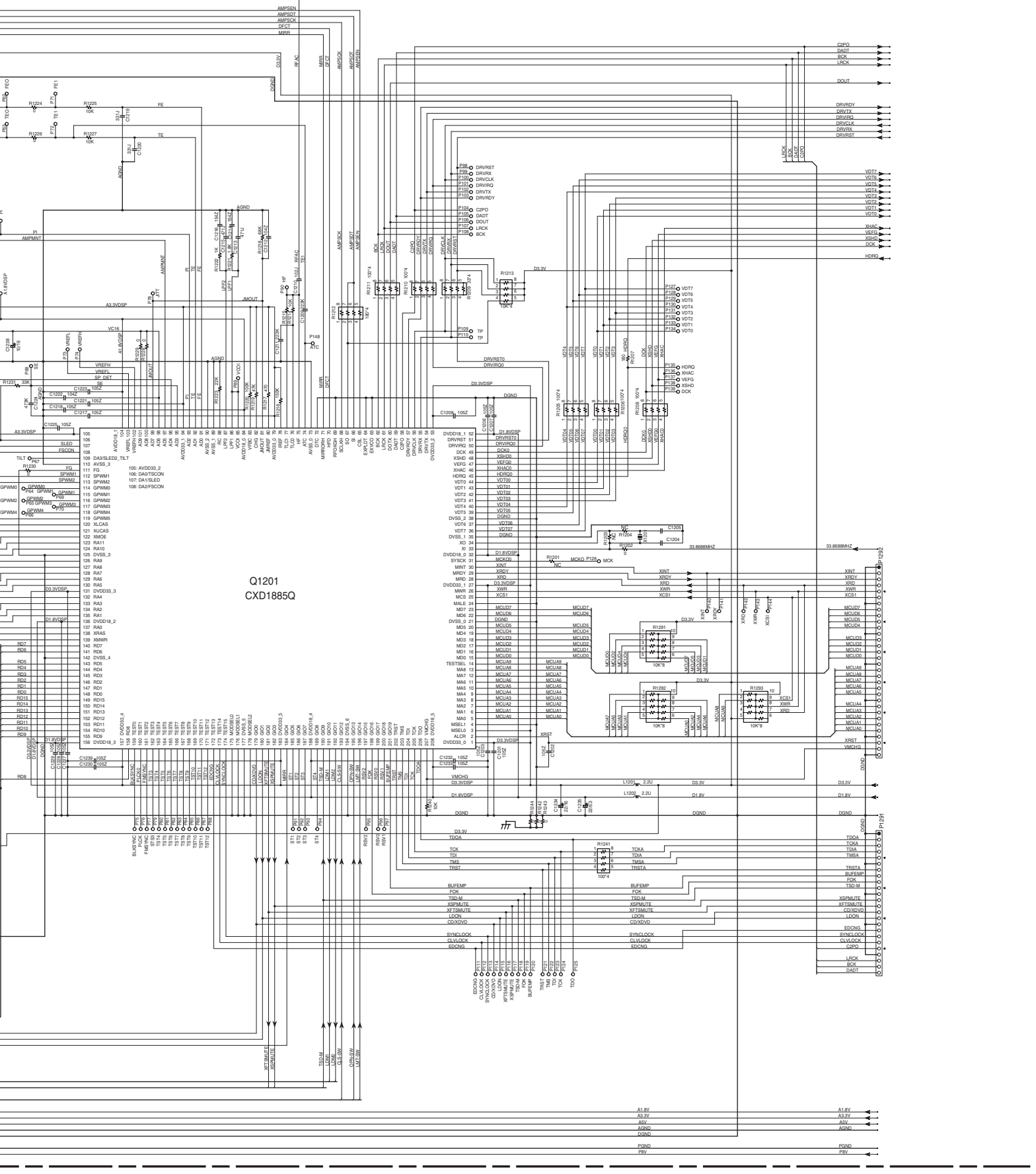
BLOCK DIAGRAM



SCHEMATIC DIAGRAM-1



U1: DVD MAIN PC BOARD-1 NADG-7807



A

B

C

D

SCHEMATIC DIAGRAM-2

U1: DVD MAIN PC BOARD NADG-7807-2

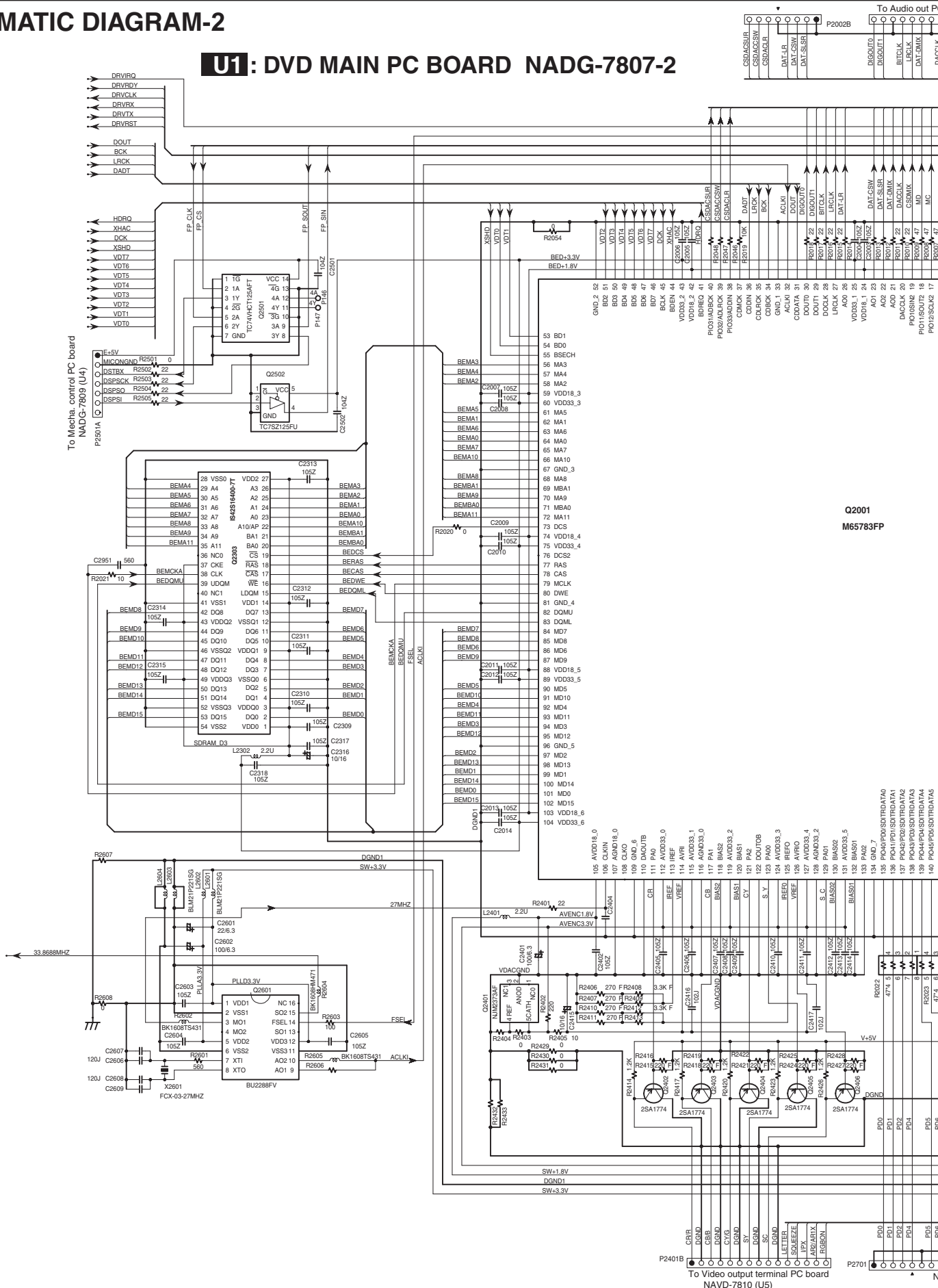
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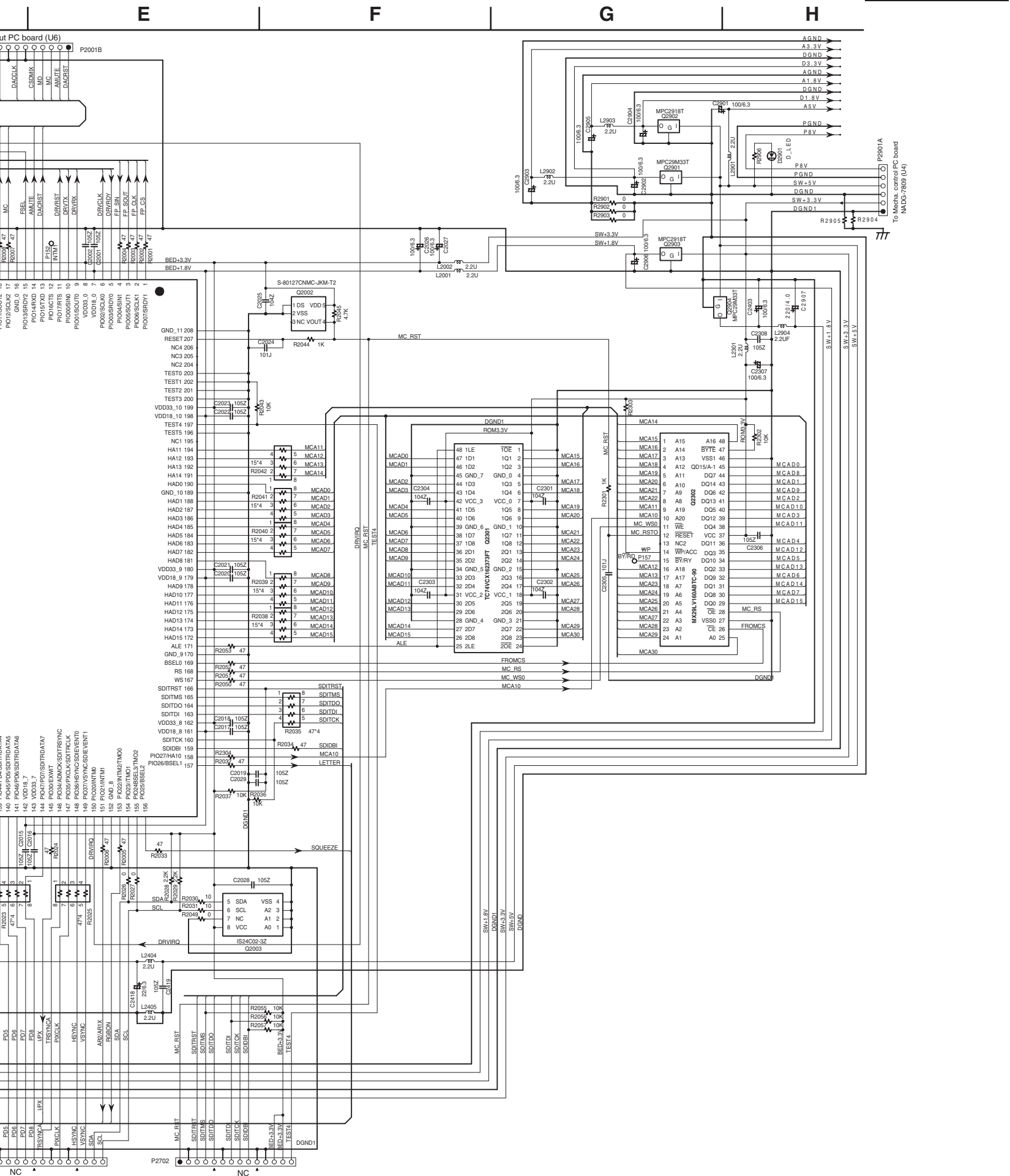


To Video output terminal PC board NAVD-7810 (U5)

To Audio out PC board P2002B

To Mecha. control PC board NADG-7809 (U4)

To Video output terminal PC board NAVD-7810 (U5)



To Media: central PC board
(NAD07-609 (U4))

SW+3.3V
SW+1.8V
DGND1

SW+3.3V
SW+1.8V
DGND1

SW+3.3V
SW+1.8V
DGND1

SW+3.3V
SW+1.8V
DGND1

SW+3.3V
SW+1.8V
DGND1

SW+3.3V
SW+1.8V
DGND1

SW+3.3V
SW+1.8V
DGND1

SW+3.3V
SW+1.8V
DGND1

A

B

C

D

SCHEMATIC DIAGRAM-3

U3: FRONT DISPLAY PC BOARD NADIS-7808

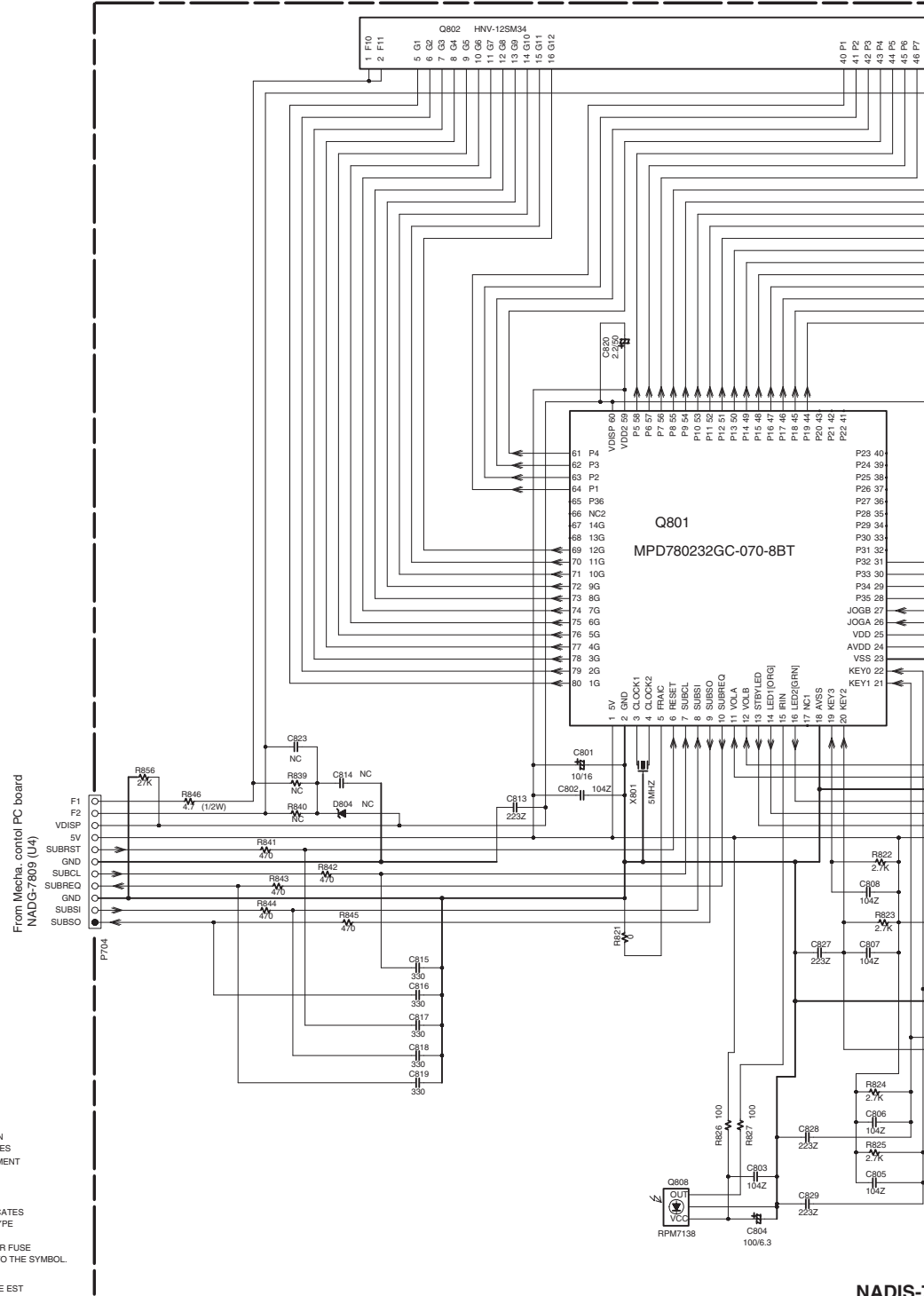
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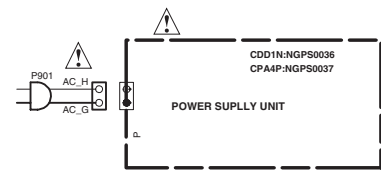


CAUTION
 FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

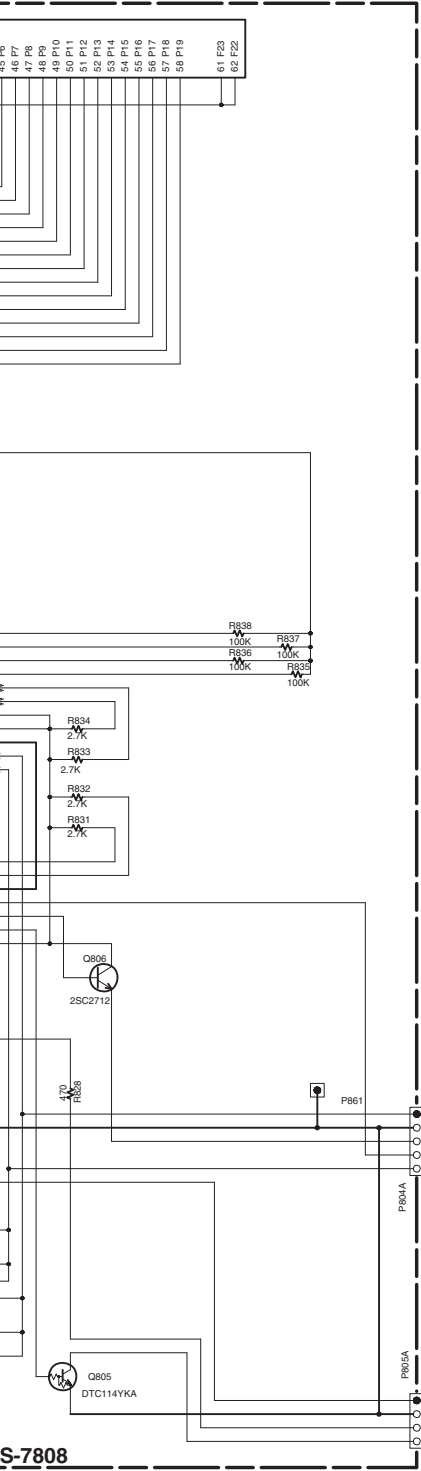
ATTENTION
 AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTILISE EST E LENT.POUR UNE PROTECTION PERMANENTE,UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DERNIER EST INDIQUE LA QU LE PRESENT SYMBOLE EST APPOSE.



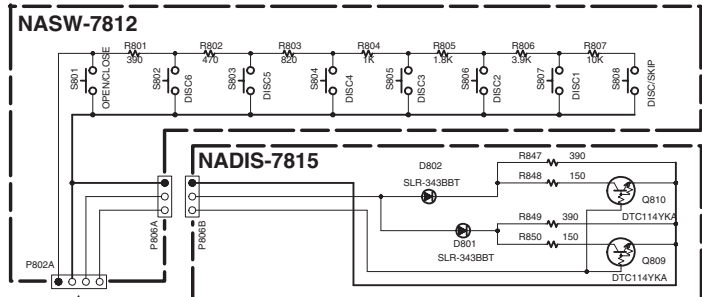
NADIS-7



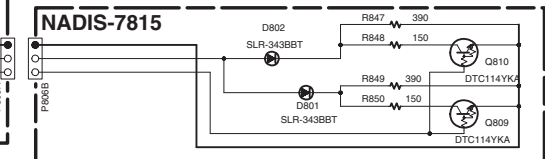
NOTE

- THE COMPONENTS IDENTIFIED BY MARK ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) IS DC VOLTAGE. (NO INPUT SIGNAL)
- ELECTROLYTIC CAPACITORS () ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030 → 3pF 330 → 33pF 331 → 330pF 333 → 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

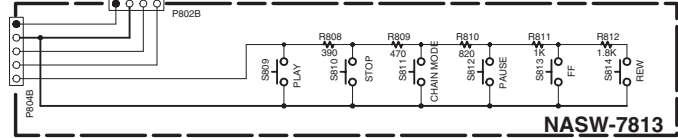
U7 : DISC SELECT SWITCH PC BOARD NASW-7812



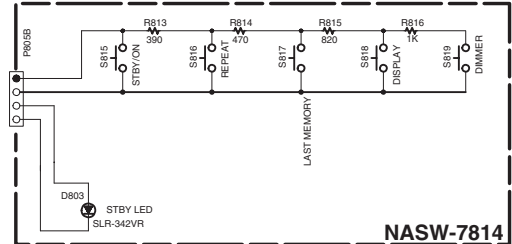
U10 : LED DISPLAY PC BOARD NADIS-7815



U8 : KEY OPERATION SWITCH PC BOARD NASW-7813



U9 : STANDBY SWITCH PC BOARD NASW-7814



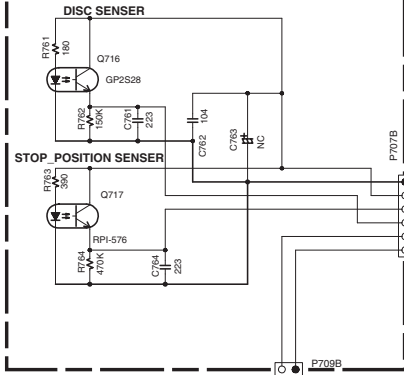
S-7808

A **B** **C** **D**

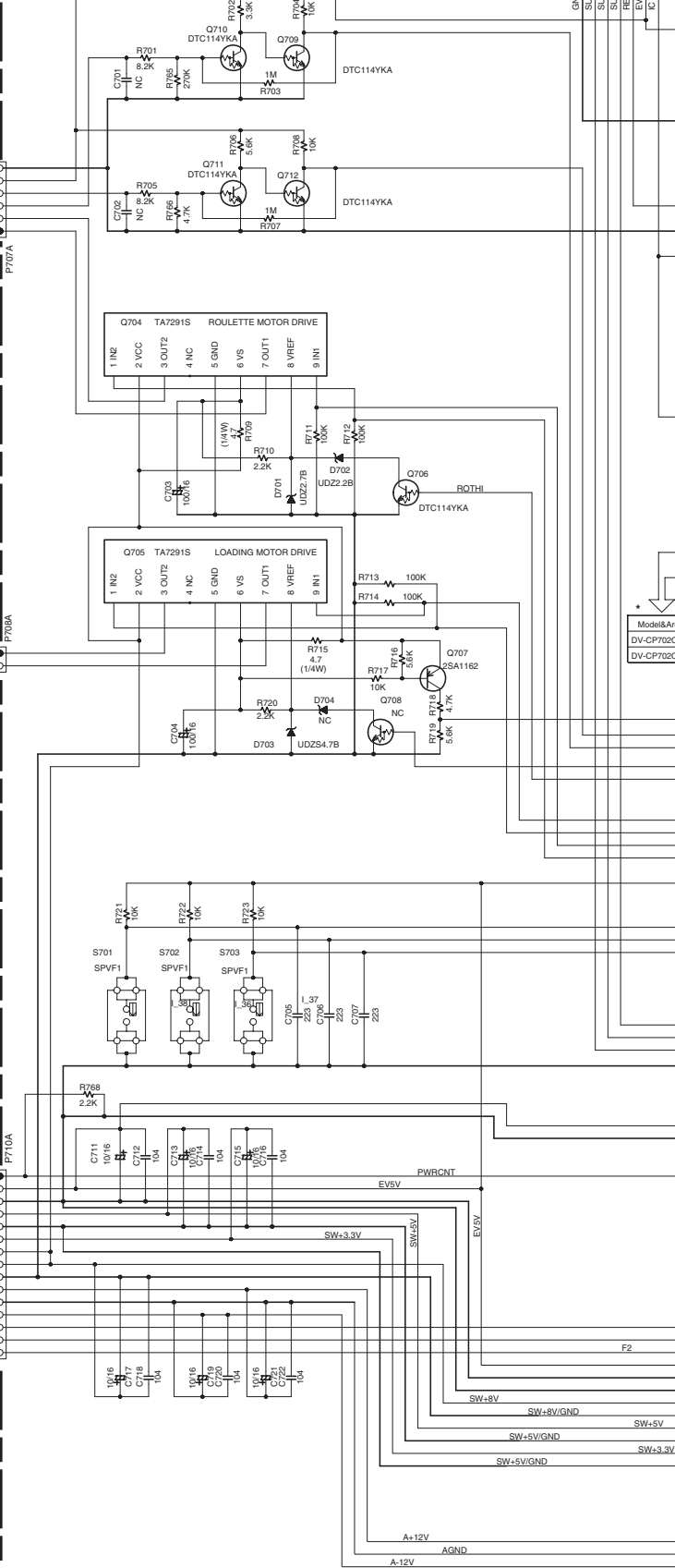
SCHEMATIC DIAGRAM-4

U13 : DISC SENSOR PC BOARD

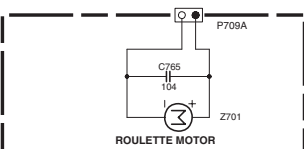
NAETC-7818



NADG-7809

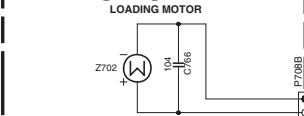


U11 : ROULETTE MOTOR PC BOARD



NAETC-7816

NAETC-7817



U12 : LOADING MOTOR PC BOARD

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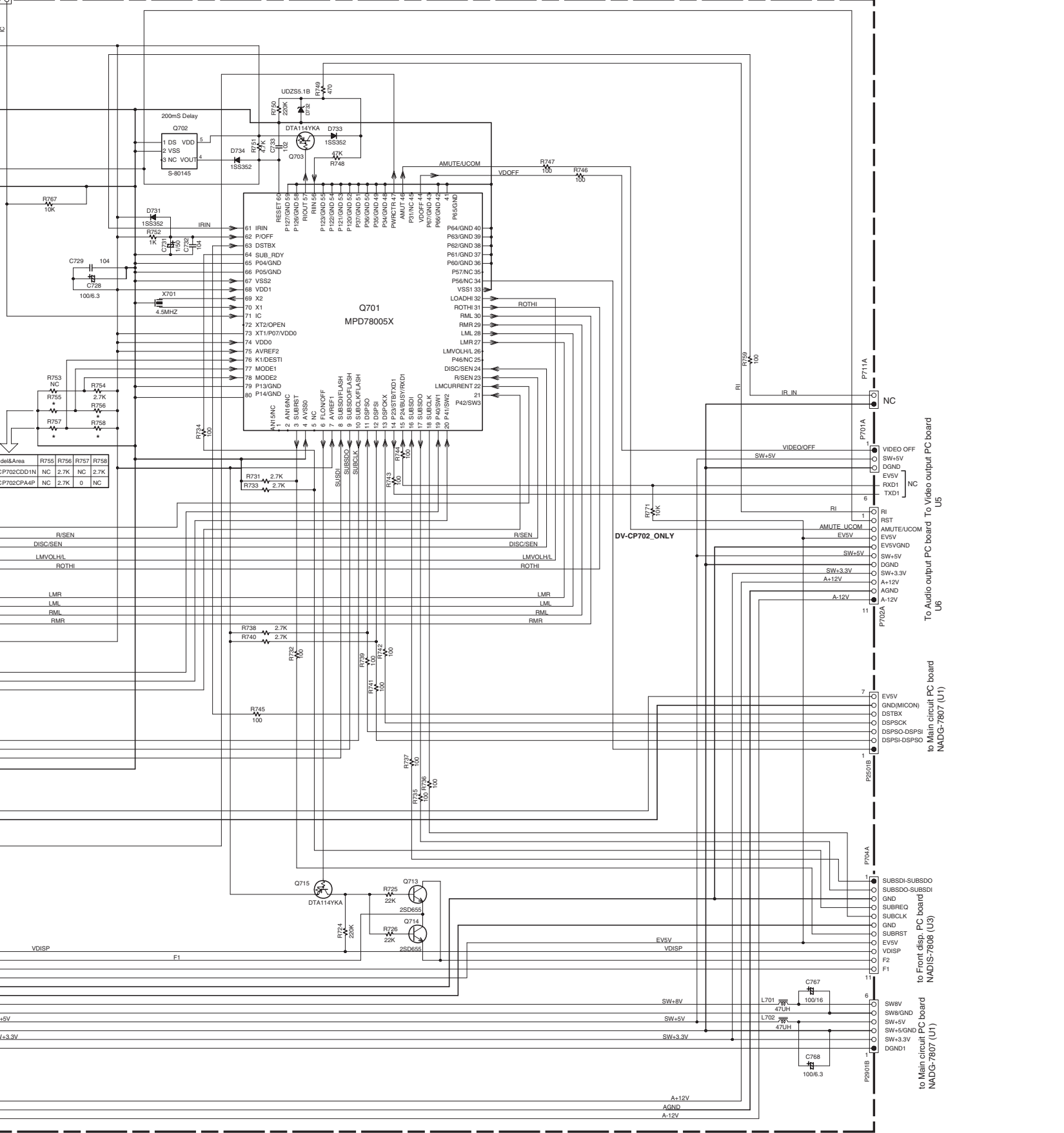
From Power supply unit

- P-ON 1
- EV5V
- EV+5V/GND
- SW+5V
- SW+5V/GND 5
- SW+3.3V
- SW+8V
- SW+8V
- SW+8V/GND
- SW+8V/GND
- A+12V 10
- AGND
- A-12V
- VDISP+30V
- F 1
- F2 15

Model&Ar
DV-CP702C
DV-CP702C

U4: MECHANISM CONTROL PC BOARD NADG-7809

WRITE IN FLASH PLUG



A

B

C

D

SCHEMATIC DIAGRAM-5

U5 : VIDEO OUTPUT TERMINAL PC BOARD NAVD-7810

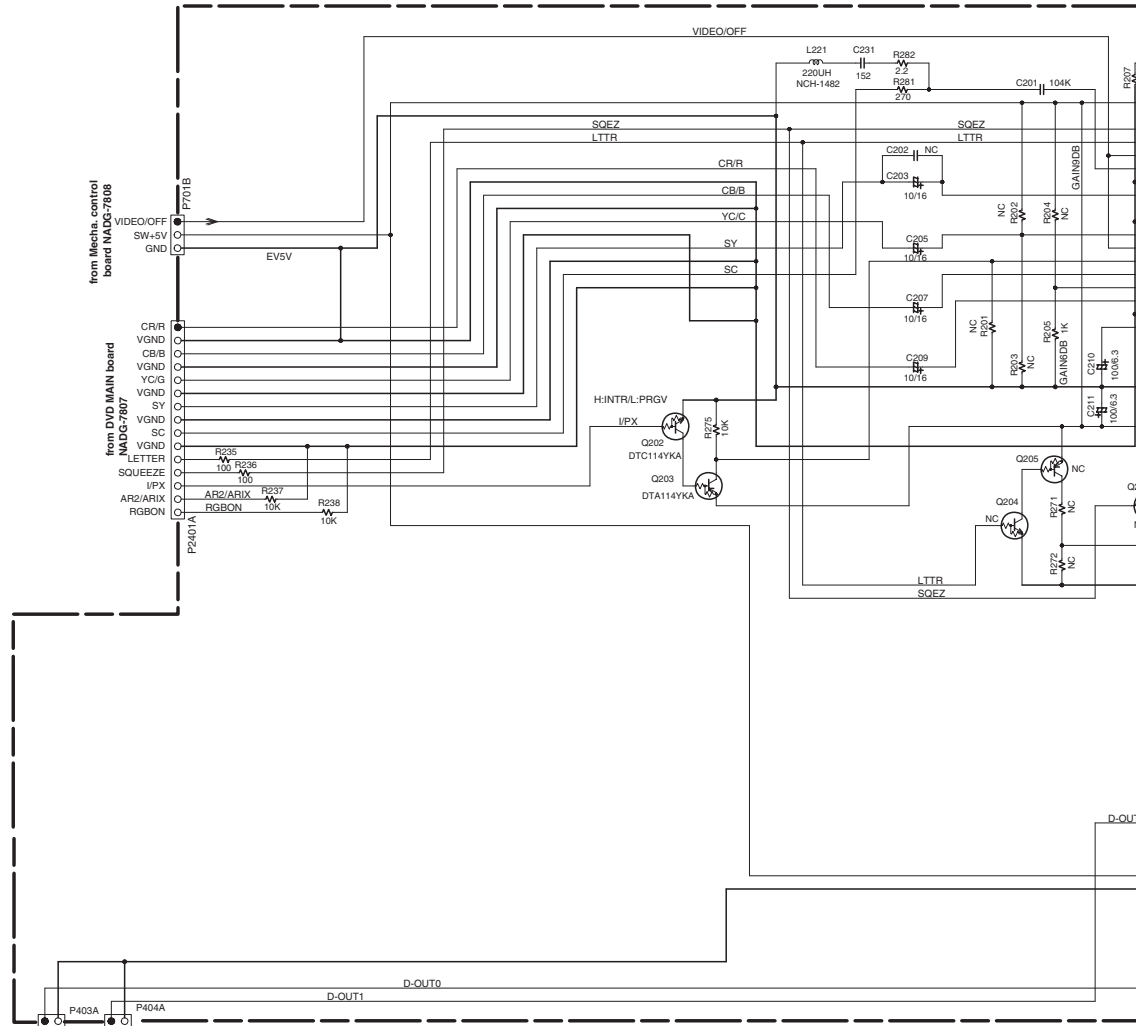
1

2

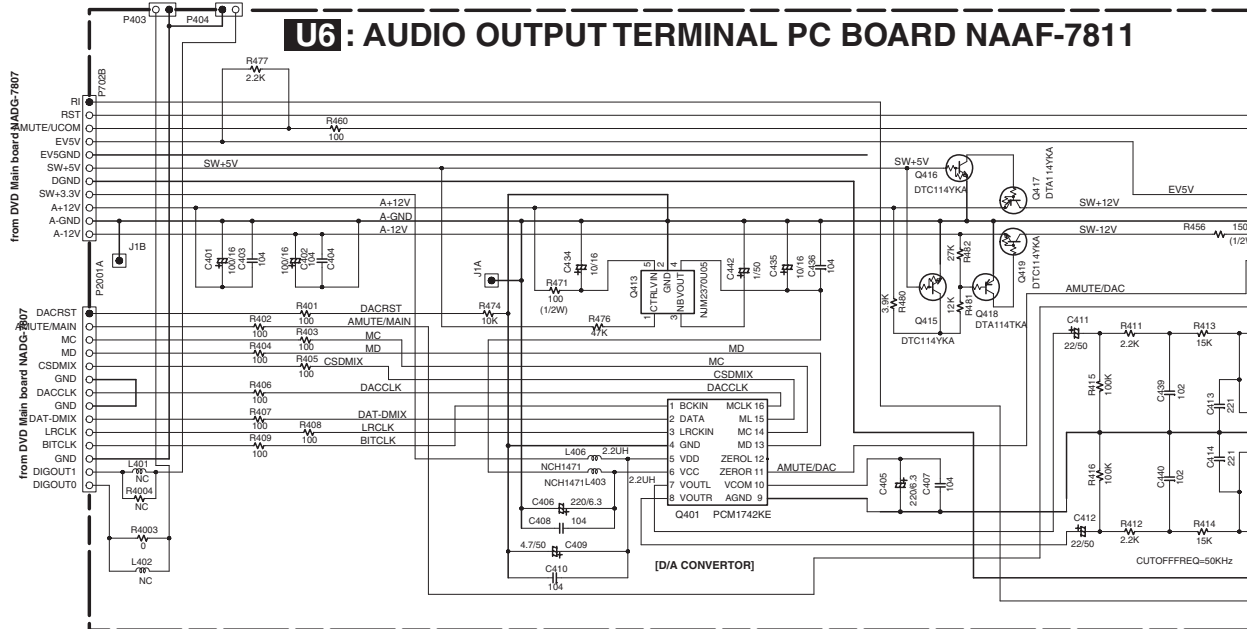
3

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U6 : AUDIO OUTPUT TERMINAL PC BOARD NAAF-7811

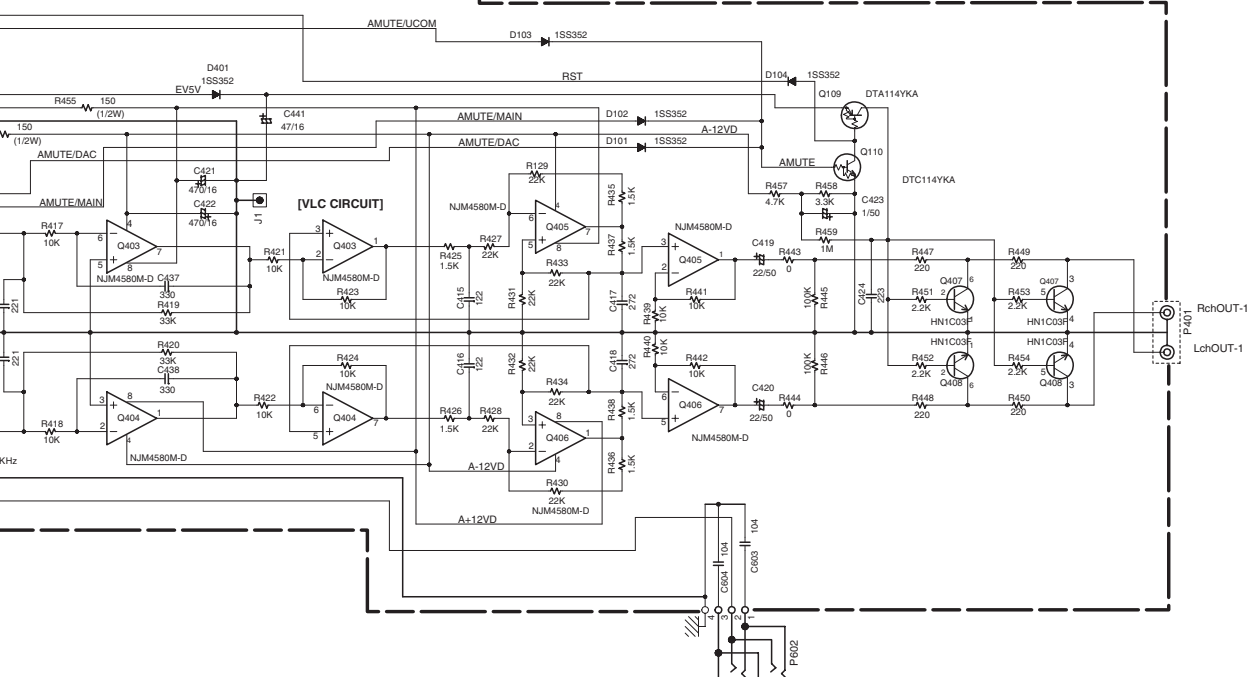
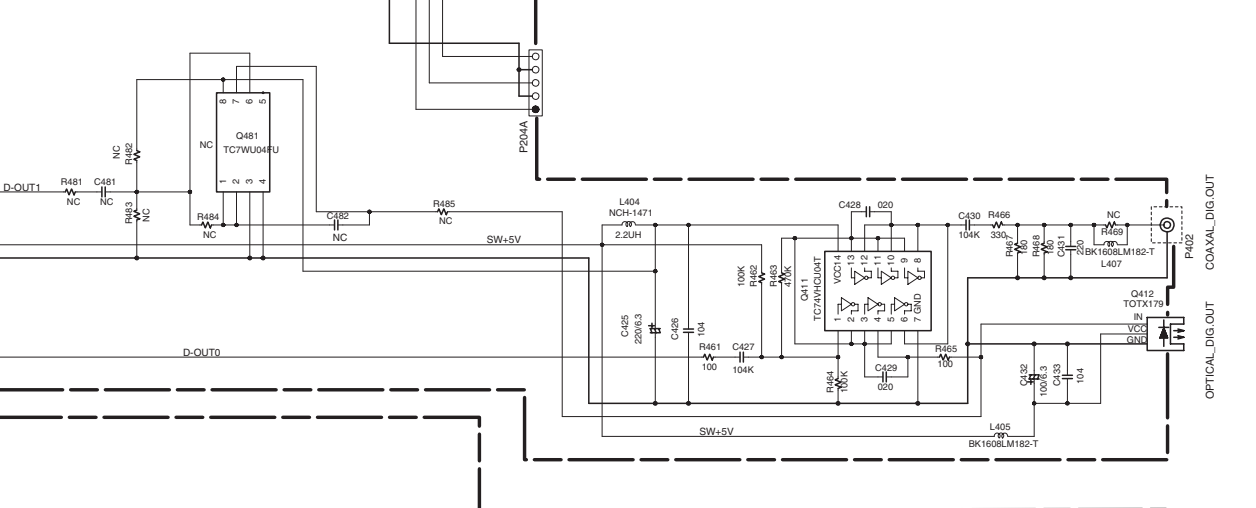
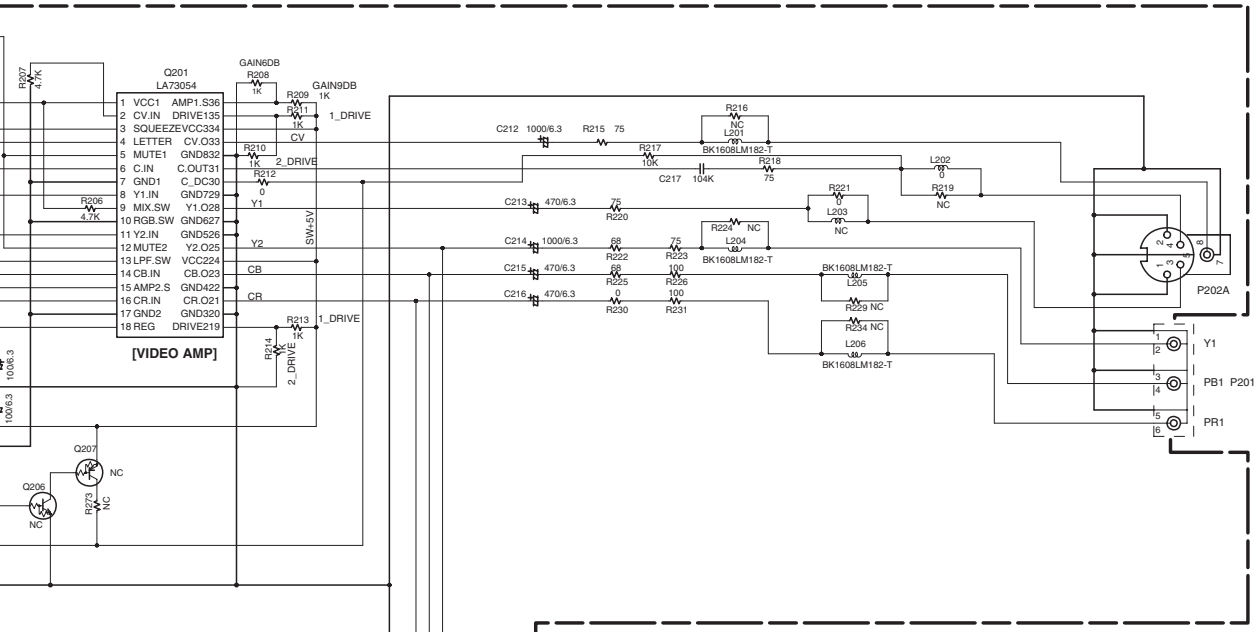


E

F

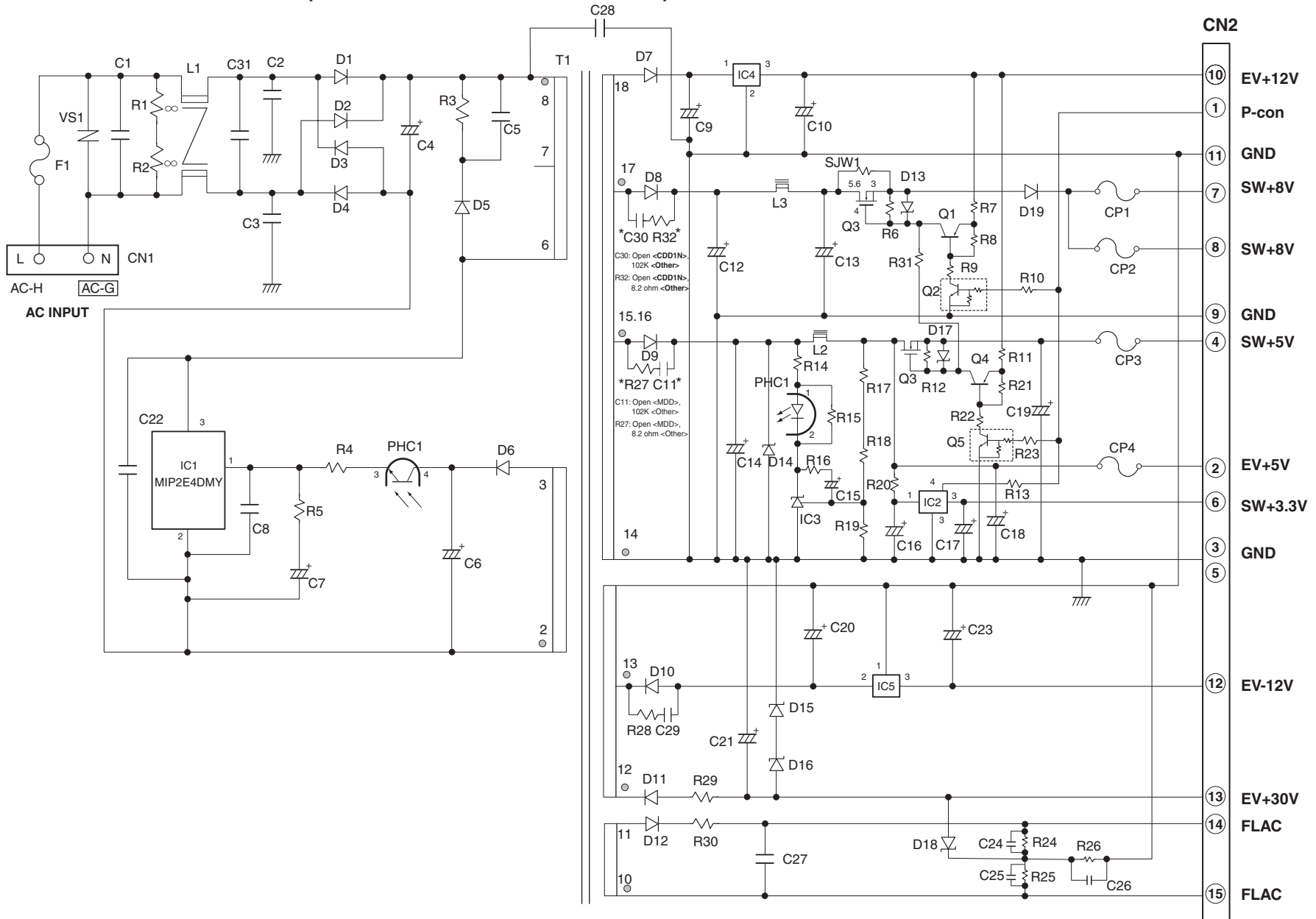
G

H



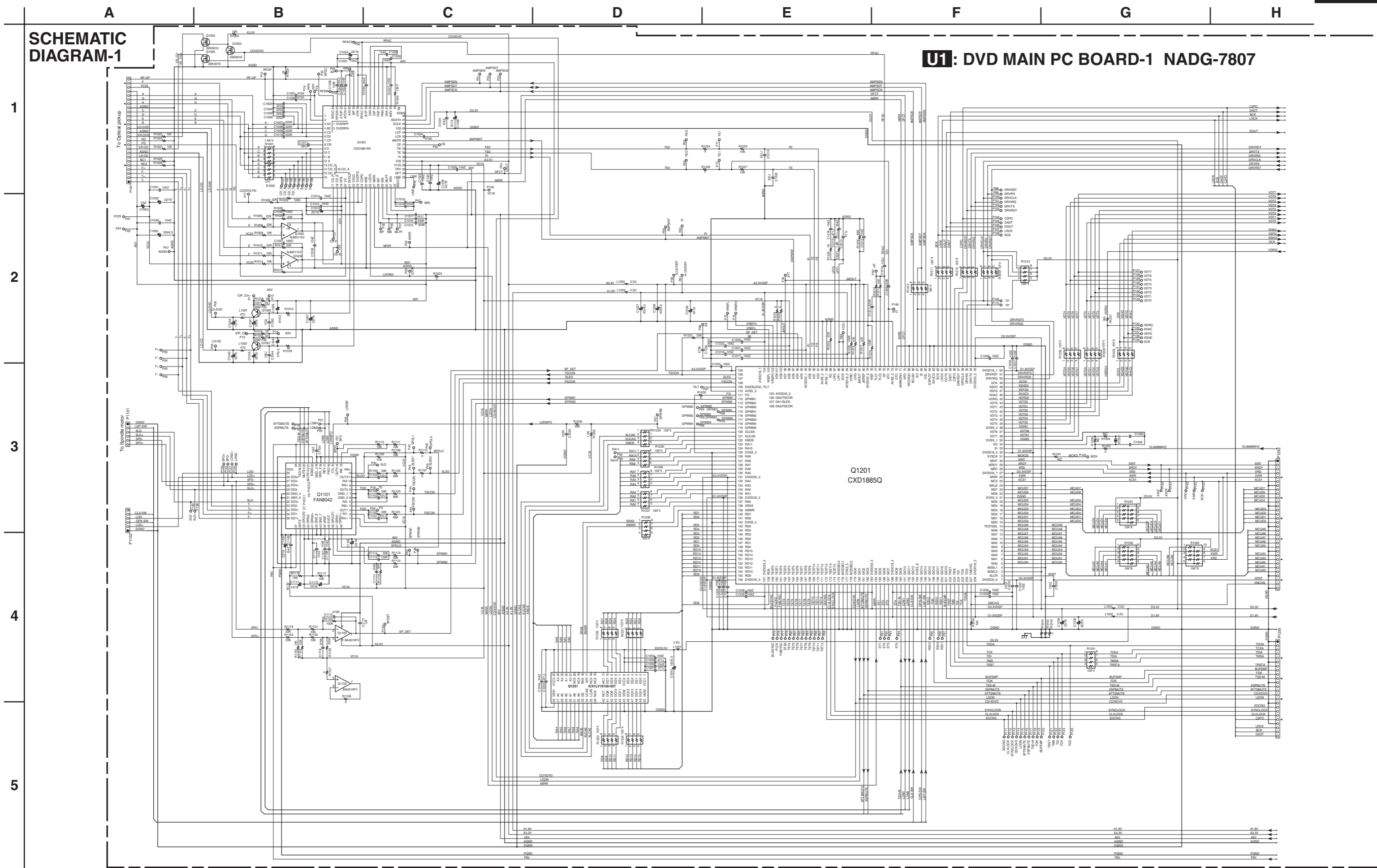
SCHEMATIC DIAGRAM-6

U30: POWER SUPPLY UNIT (NGPS-0036-100-120V <CDD1N>)
(NGPS-0037-100-240V <CPA4P>)



SCHEMATIC DIAGRAM-1

U1: DVD MAIN PC BOARD-1 NADG-7807



1

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SCHEMATIC DIAGRAM-2

U1: DVD MAIN PC BOARD NADG-7807-2

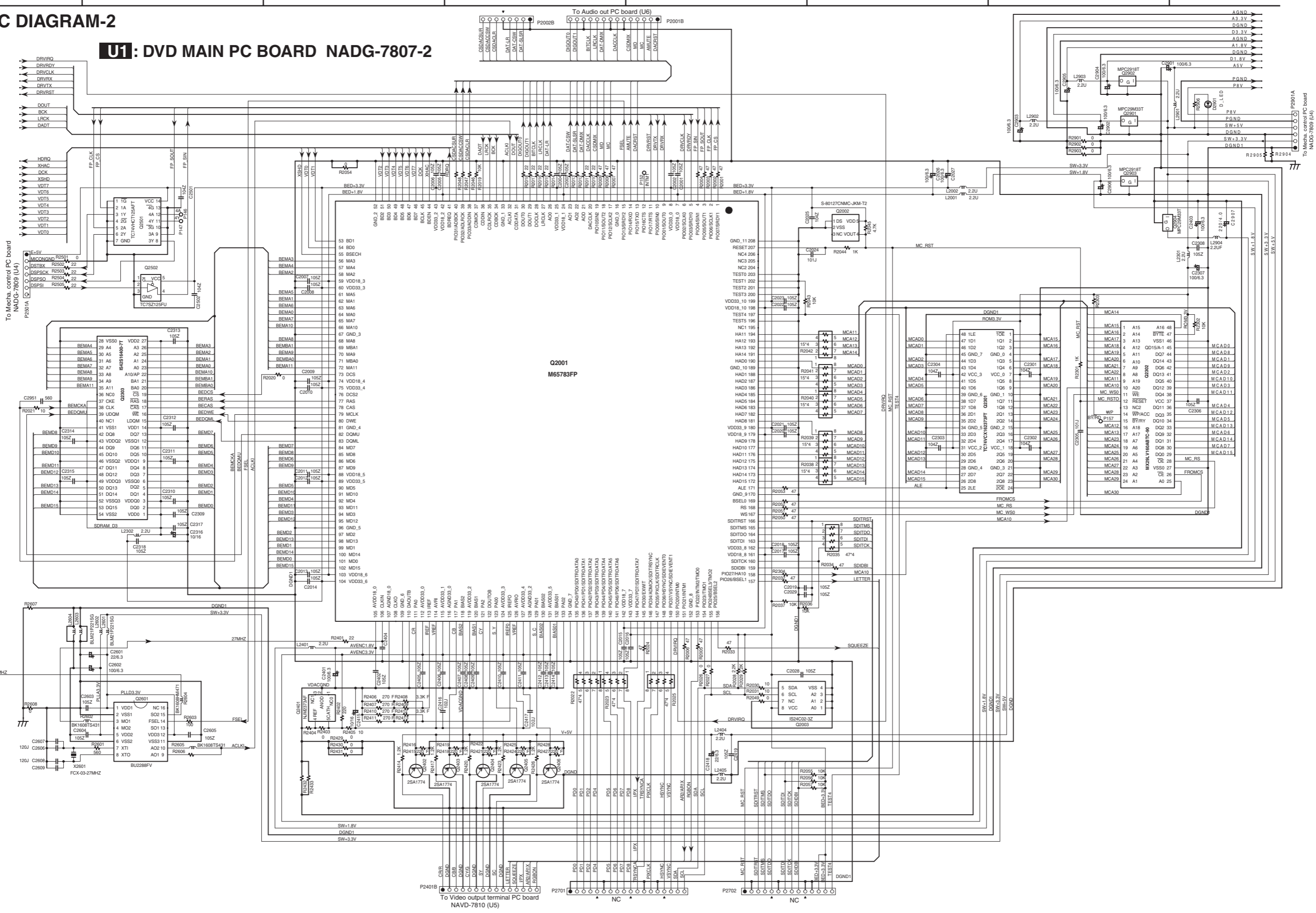
1

2

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To Mecha. control PC board
NADG-7809 (U4)
P2001A

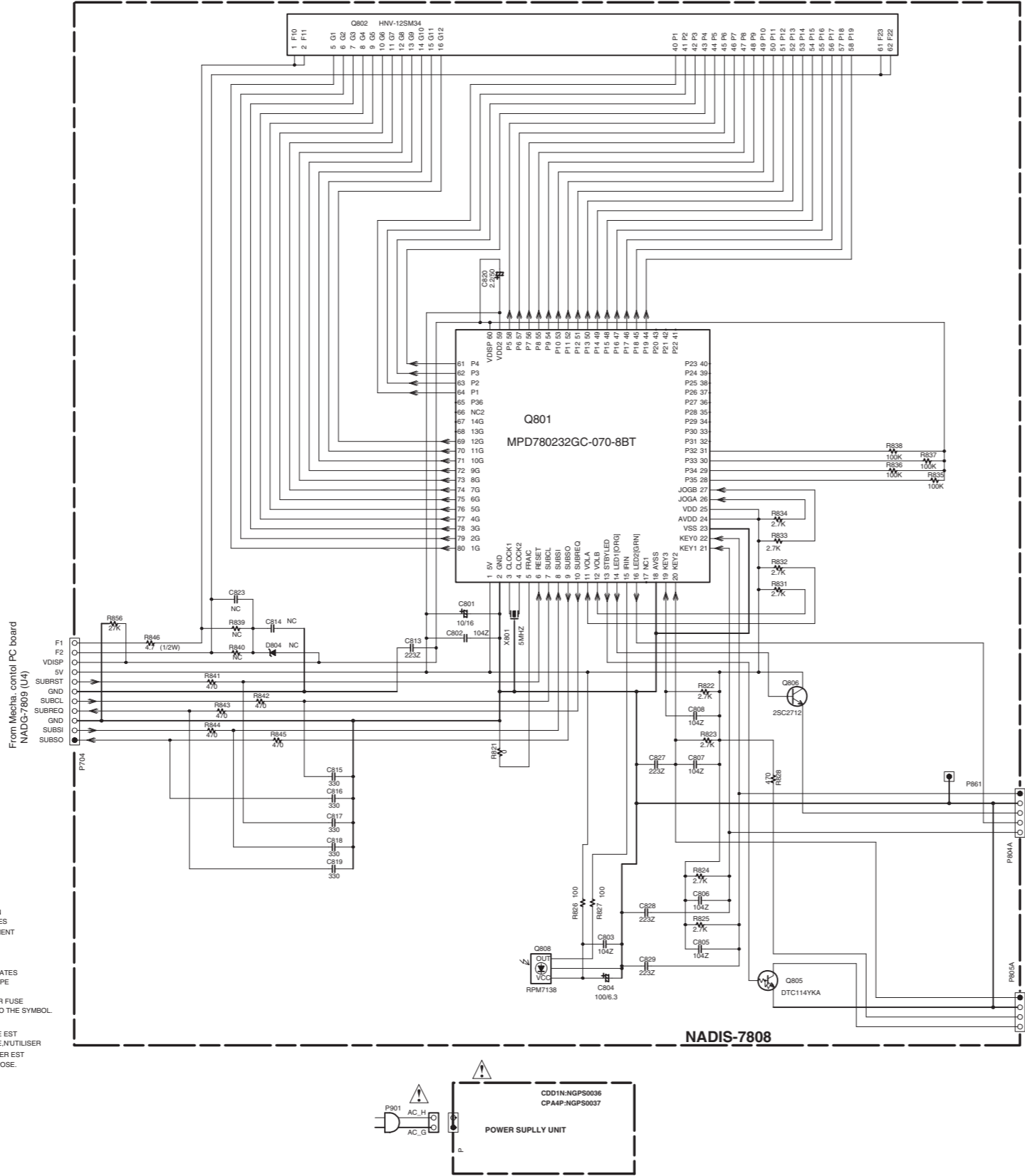
To Audio out PC board (U6)
P2002B P2001B

To Mecha. control PC board
NADG-7809 (U4)
P2001A

To Video output terminal PC board
NAVD-7810 (U5)
P2401B P2701 P2702

SCHEMATIC DIAGRAM-3

U3: FRONT DISPLAY PC BOARD NADIS-7808



CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

ATTENTION
AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

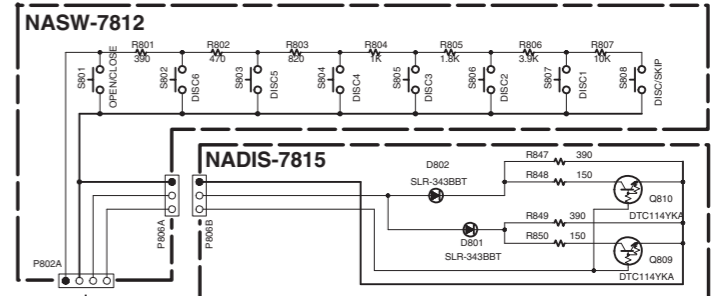
THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTILISE EST E LENT. POUR UNE PROTECTION PERMANENTE, UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DERNIER EST INDIQUE LA OU LE PRESENT SYMBOLE EST APOSE.

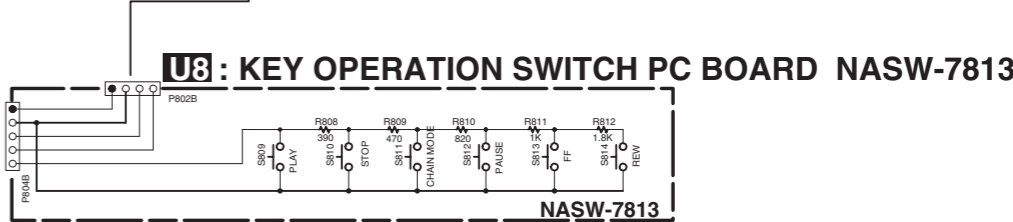
NOTE

- THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) $\langle \text{---} \rangle$ IS DC VOLTAGE. (NO INPUT SIGNAL)
- ELECTROLYTIC CAPACITORS (---) ARE IN uF/MV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030 \rightarrow 3pF 330 \rightarrow 33pF 331 \rightarrow 330pF 333 \rightarrow 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) \square PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

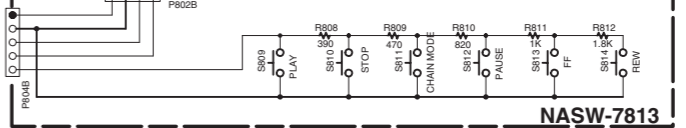
U7: DISC SELECT SWITCH PC BOARD NASW-7812



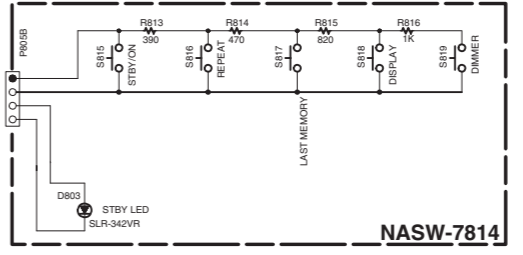
U10: LED DISPLAY PC BOARD NADIS-7815



U8: KEY OPERATION SWITCH PC BOARD NASW-7813



U9: STANDBY SWITCH PC BOARD NASW-7814



1

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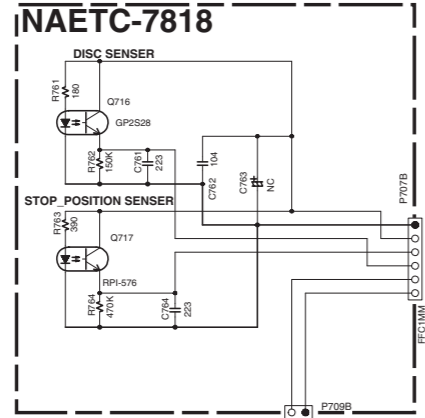
3

4

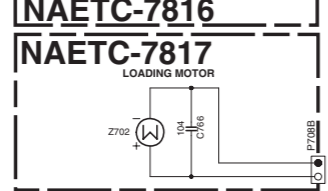
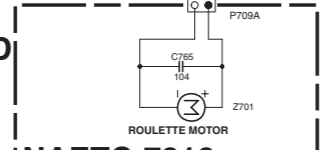
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SCHEMATIC DIAGRAM-4

U13 : DISC SENSOR PC BOARD

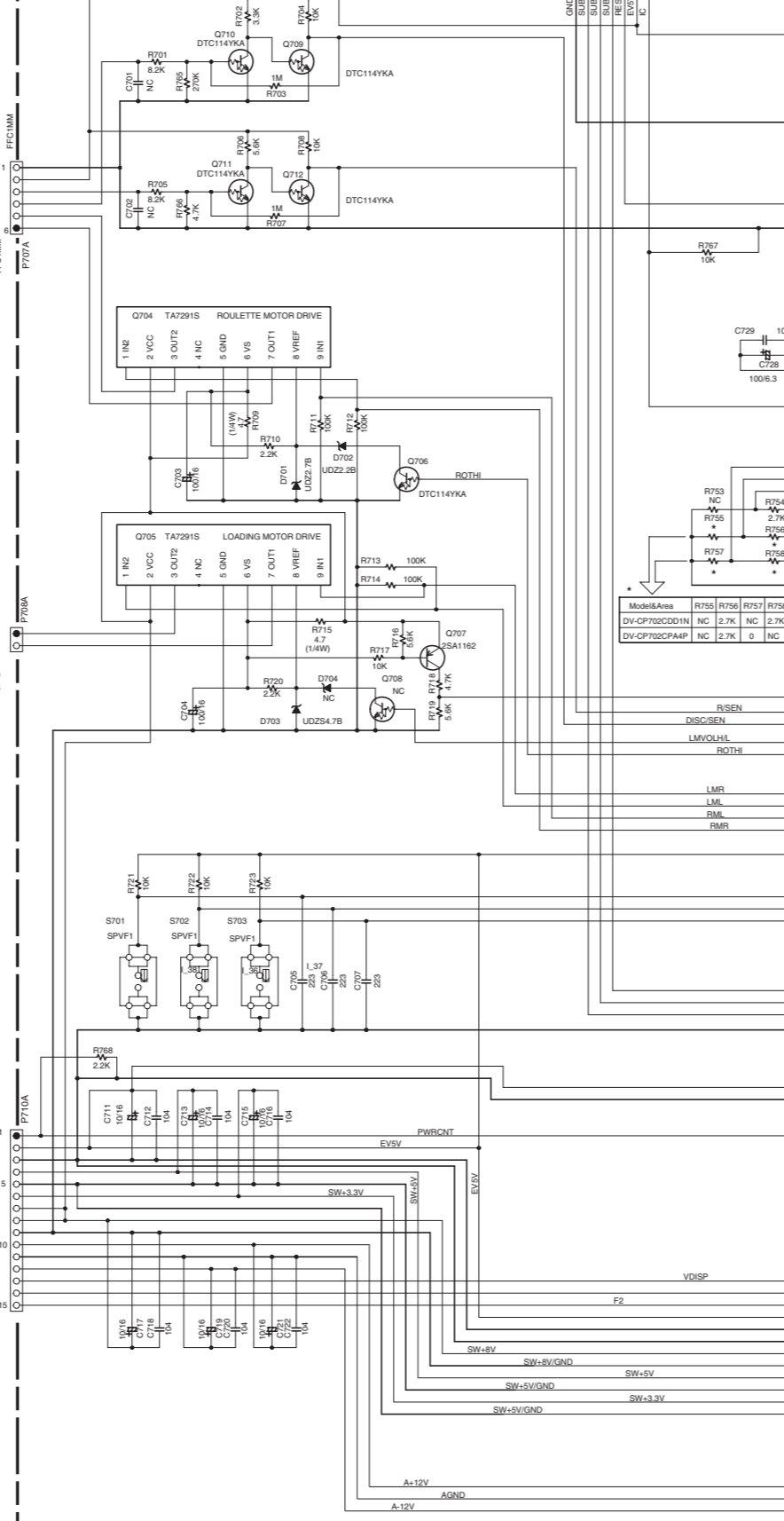


U11 : ROULETTE MOTOR PC BOARD

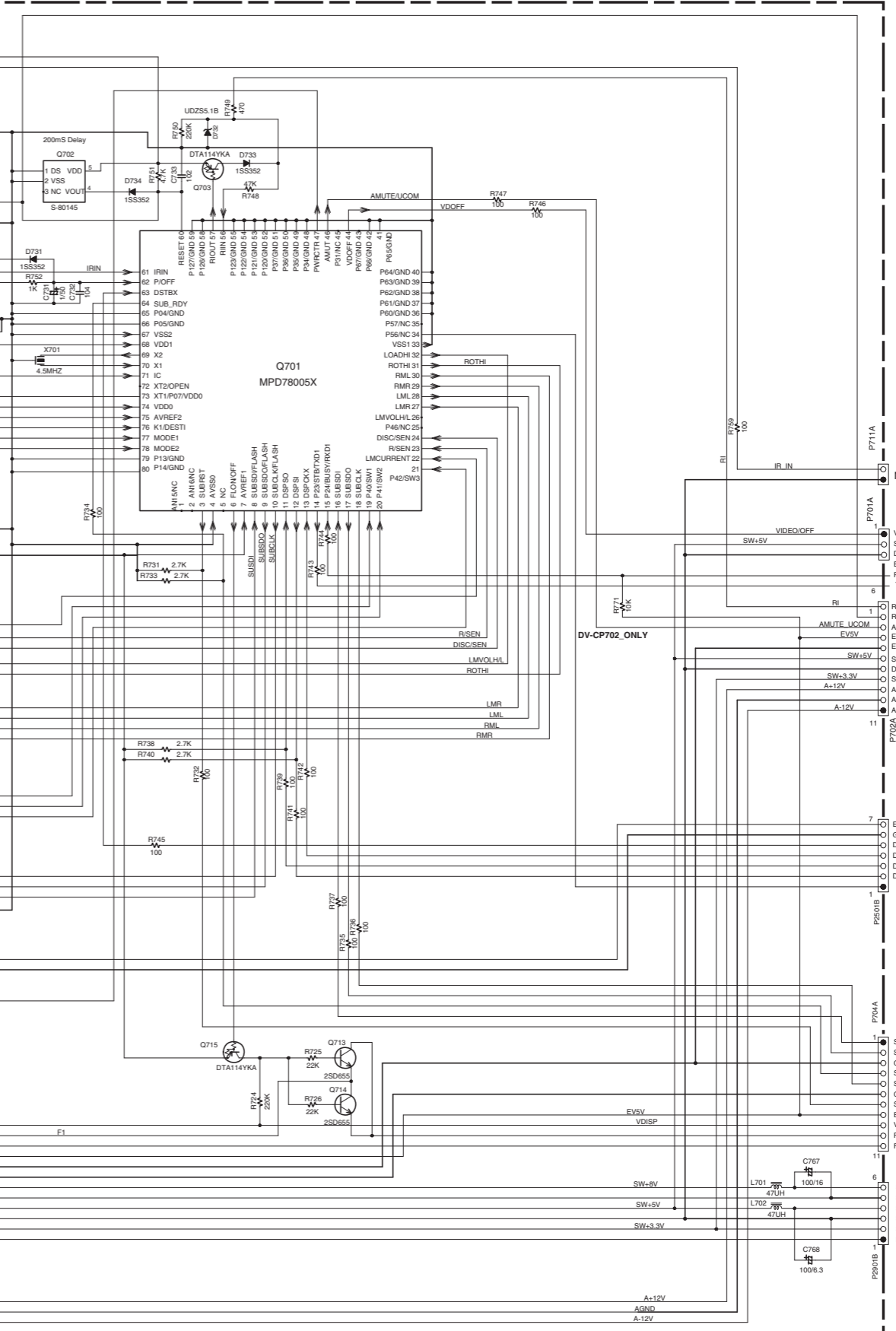


U12 : LOADING MOTOR PC BOARD

NADG-7809



U4 : MECHANISM CONTROL PC BOARD NADG-7809



1
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From Power supply unit

To Video output PC board U5
To Audio output PC board U6
to Main circuit PC board NADG-7807 (U1)
to Front disp. PC board NADIS-7808 (U3)

SCHEMATIC DIAGRAM-5 U5: VIDEO OUTPUT TERMINAL PC BOARD NAVD-7810

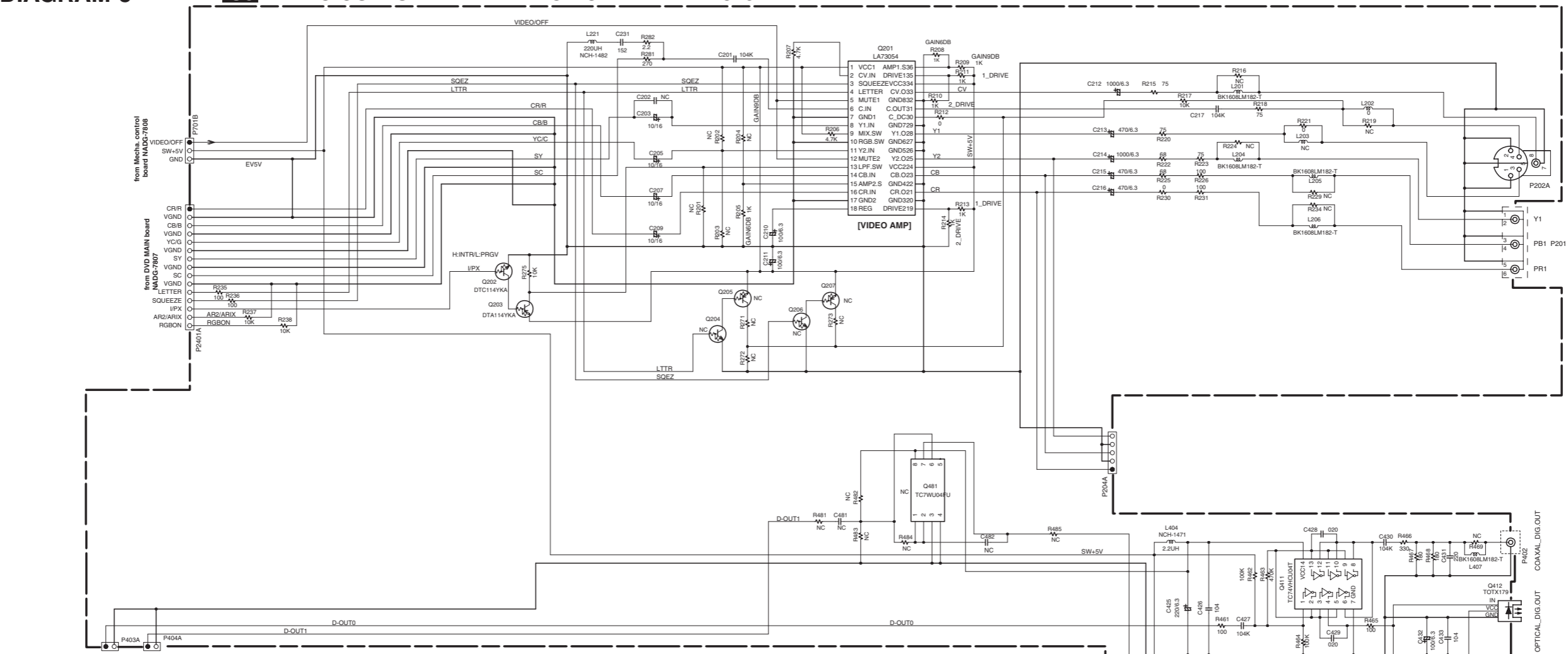
1

2

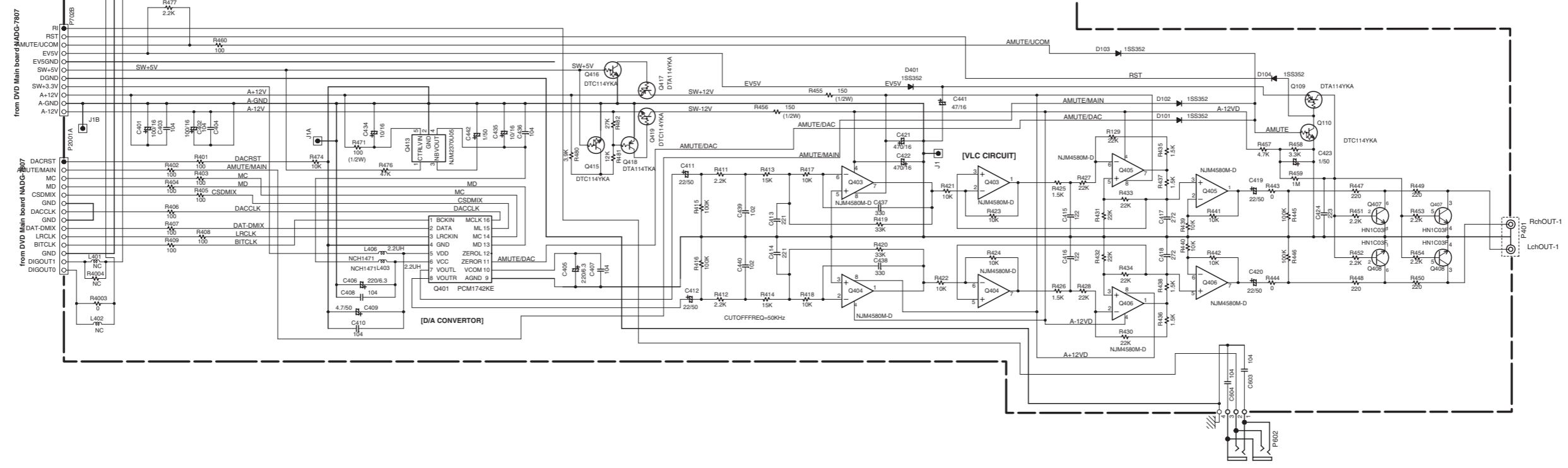
3

4

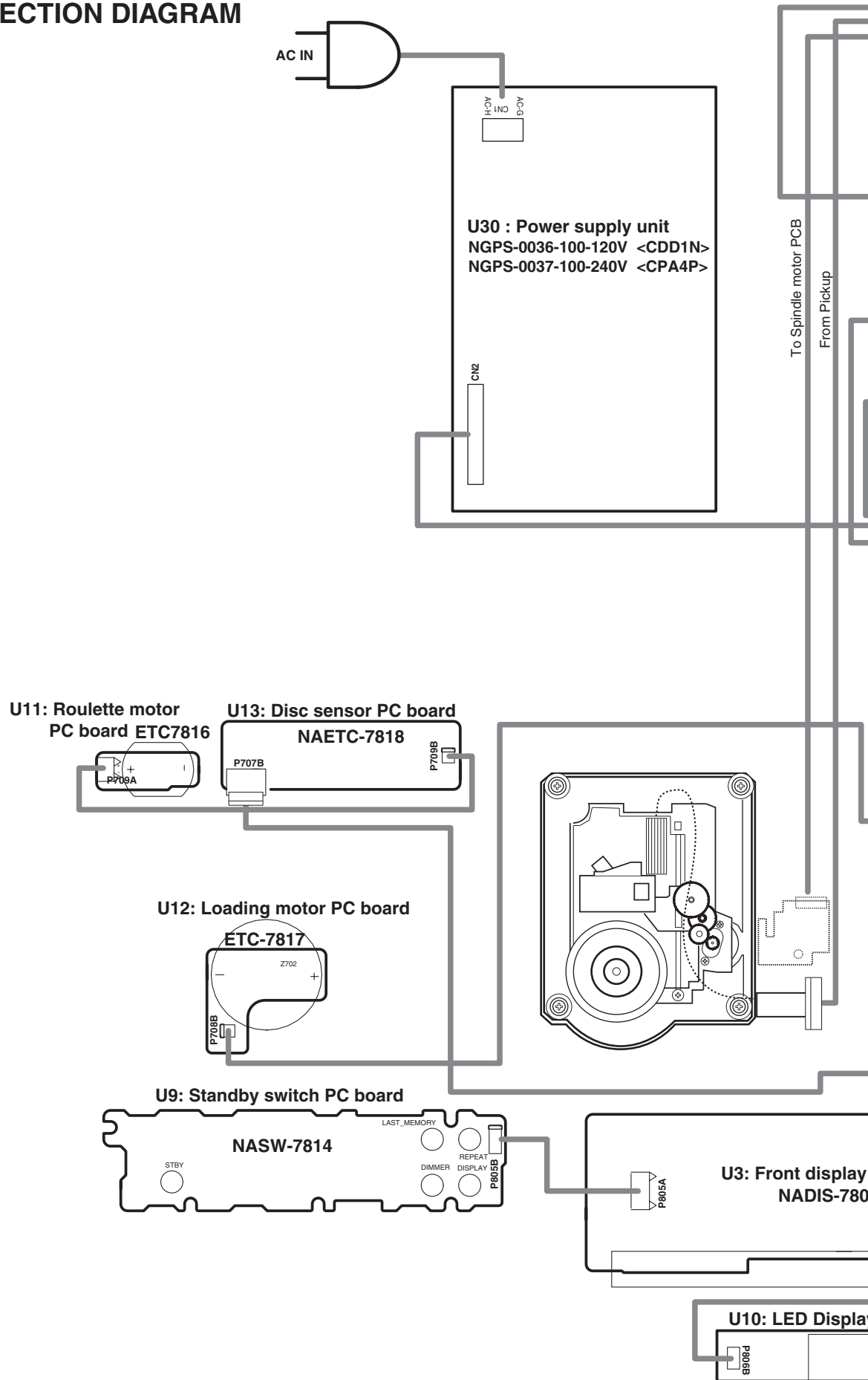
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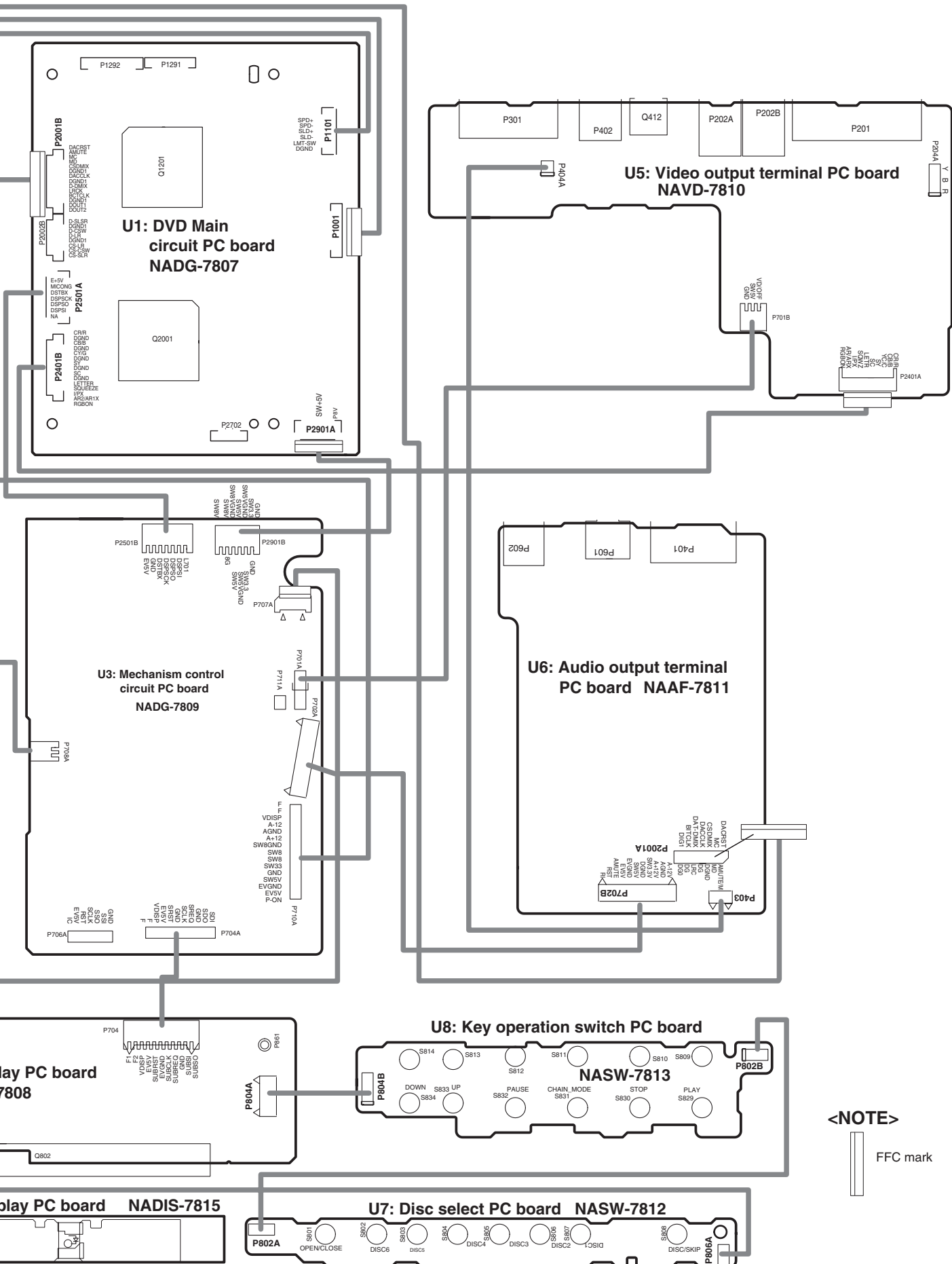


U6: AUDIO OUTPUT TERMINAL PC BOARD NAAF-7811



PC BOARD CONNECTION DIAGRAM

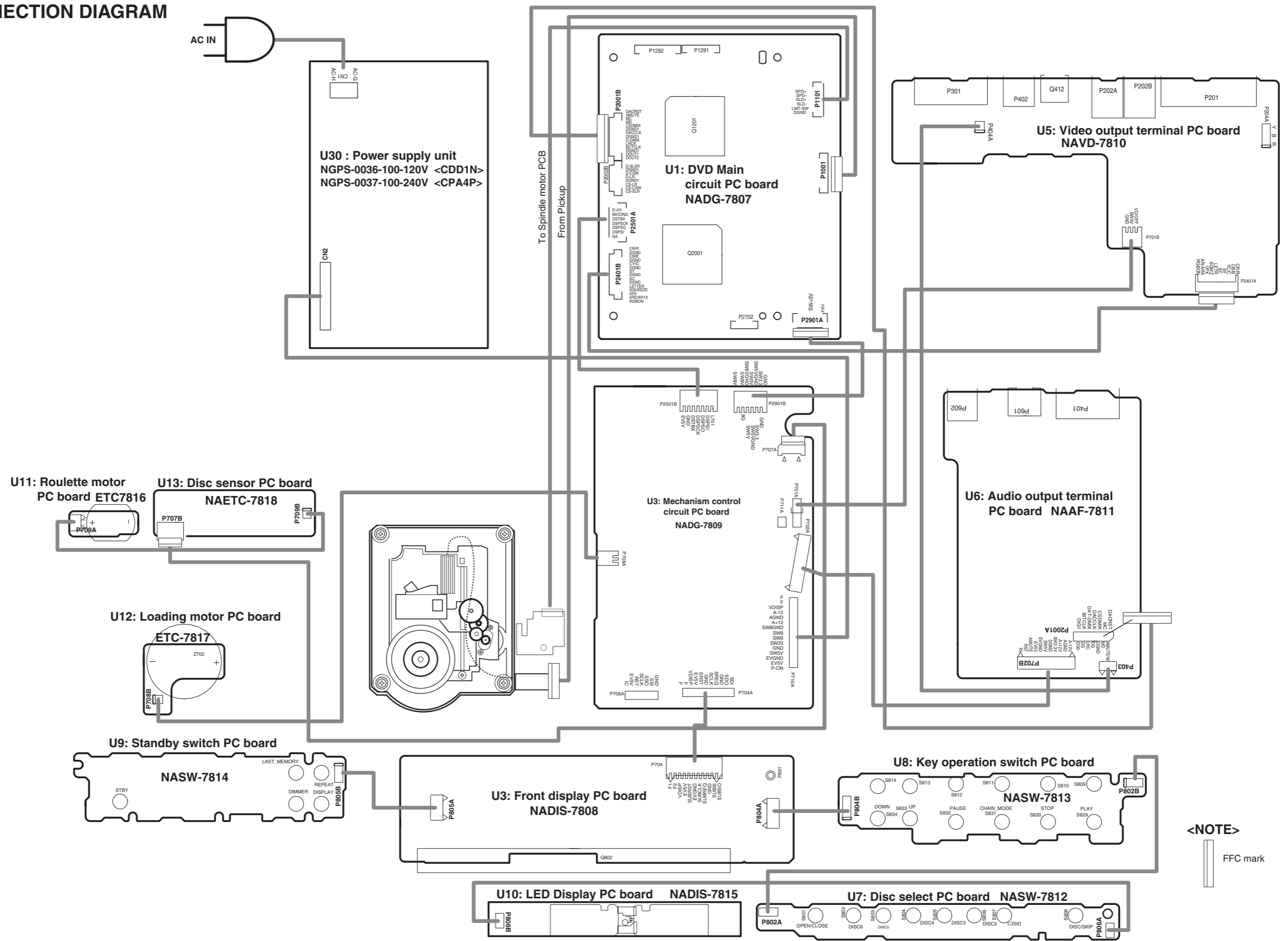





<NOTE>



PC BOARD CONNECTION DIAGRAM



<NOTE>
 FFC mark

A

B

C

D

PRINTED CIRCUIT BOARD VIEW-1

U1: DVD MAIN CIRCUIT PC BOARD (NADG-7807)

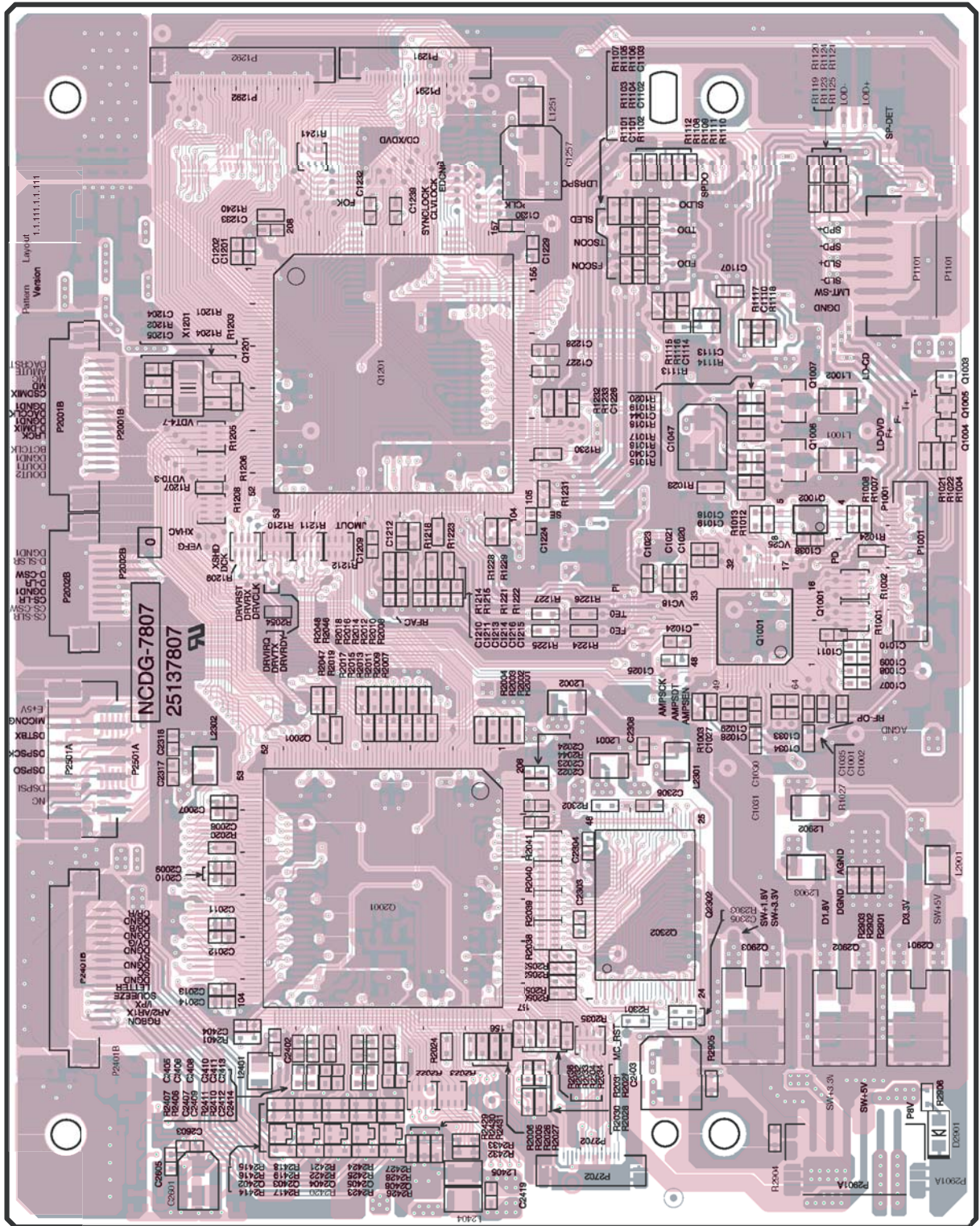
1

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5



: Side A pattern
 : Side B pattern

A

B

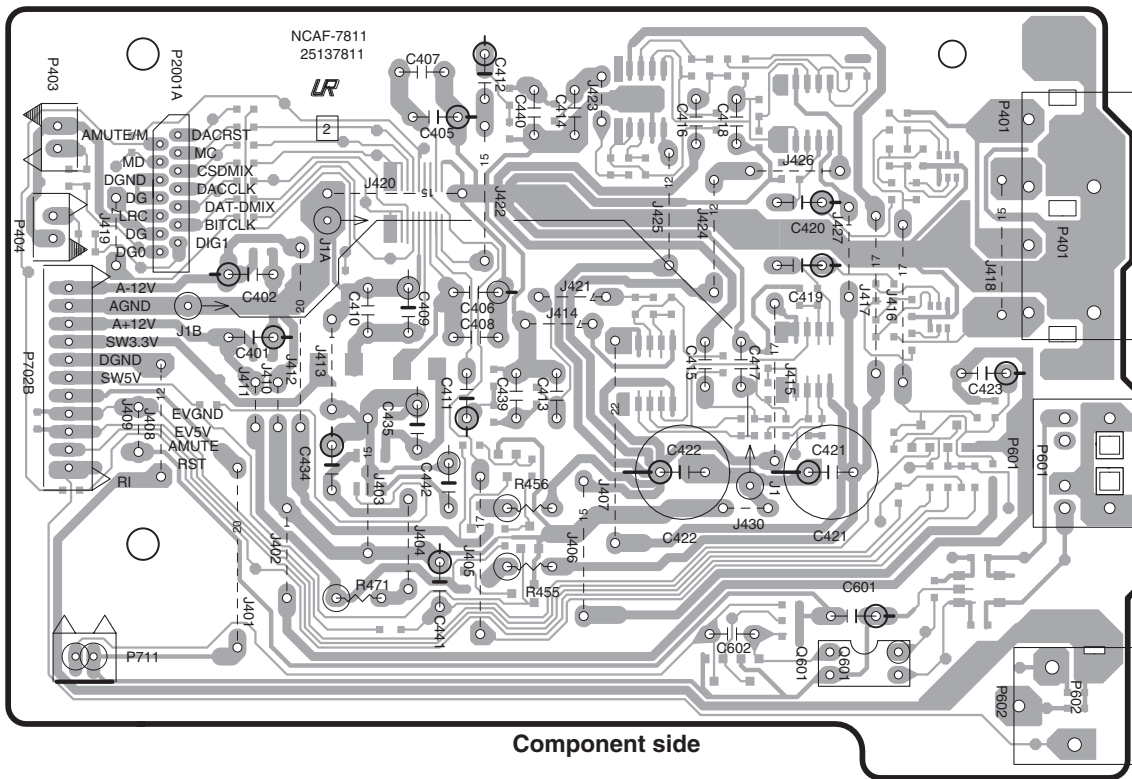
C

D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-3

U6: AUDIO OUTPUT TREMINAL PC BOARD NAAF-7811

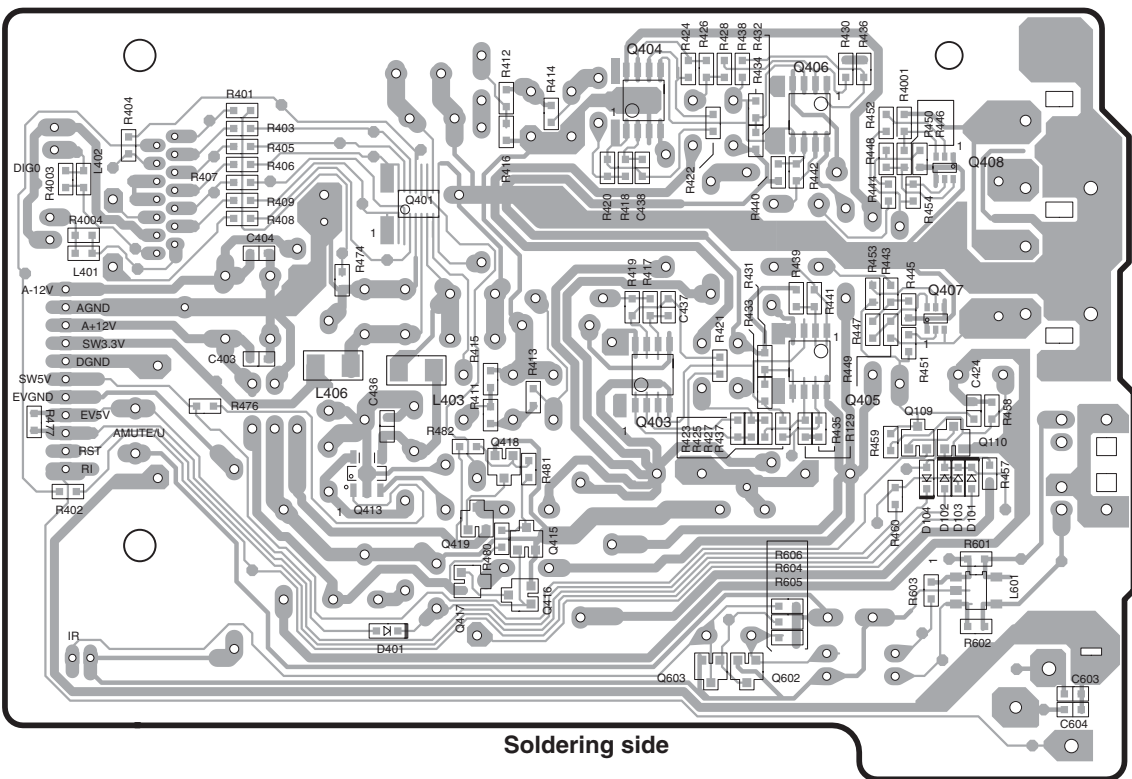
1



Component side

3

4



Soldering side

5

A

B

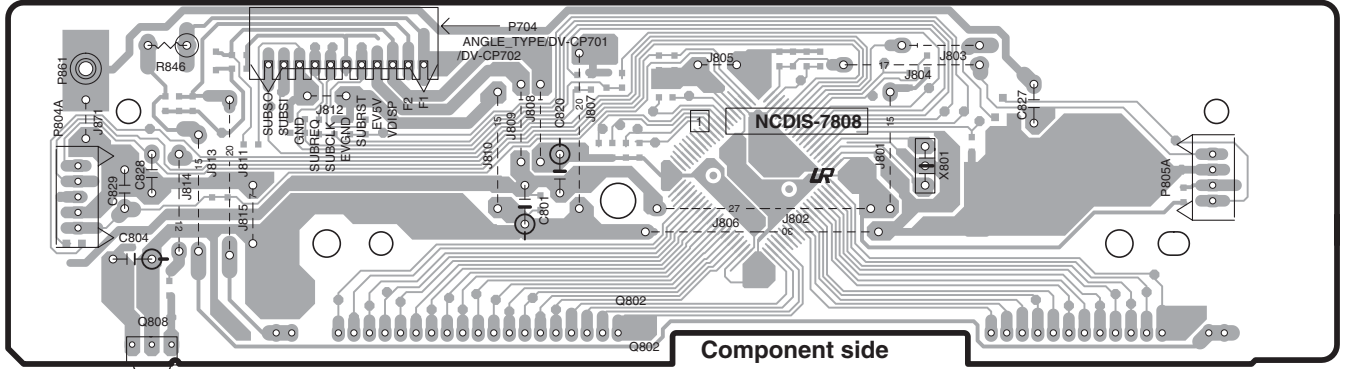
C

D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-5

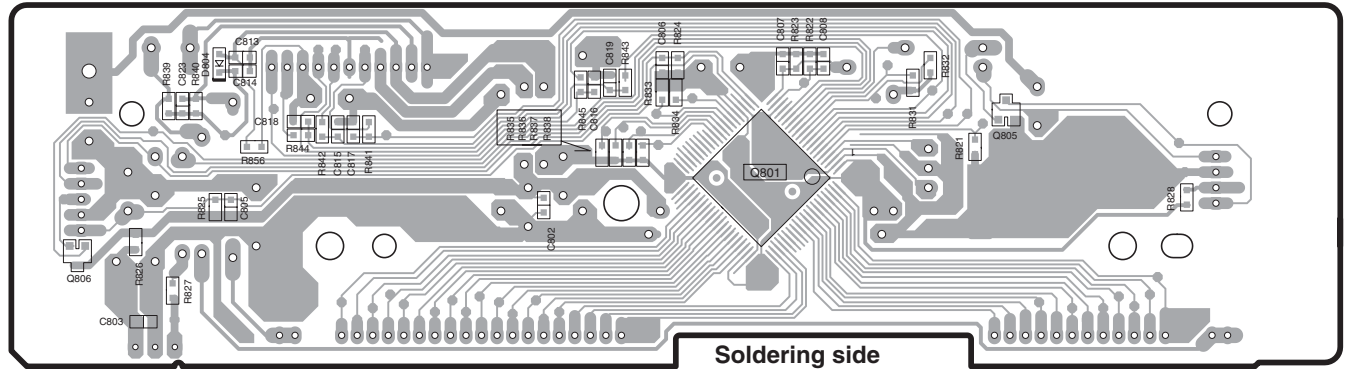
U3: FRONT DISPLAY PC BOARD NADIS-7808

1



Component side

2

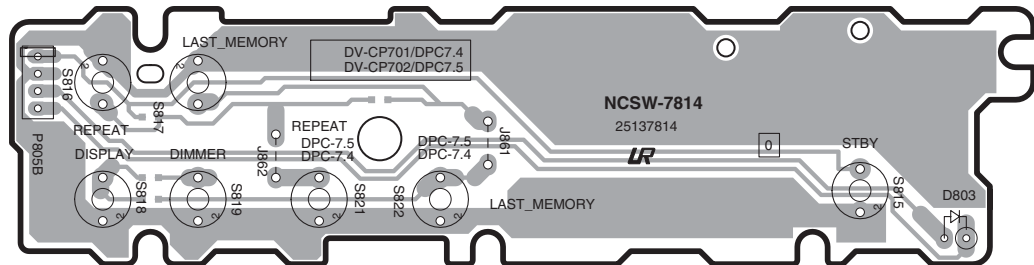


Soldering side

3

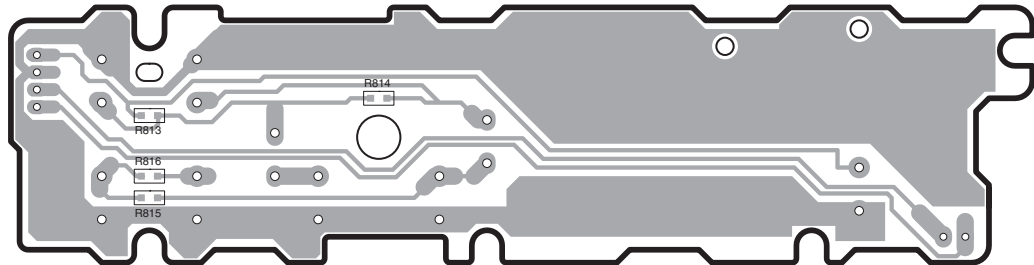
U9: STANDBY SWITCH PC BOARD NASW-7814

4



Component side

5



Soldering side

A

B

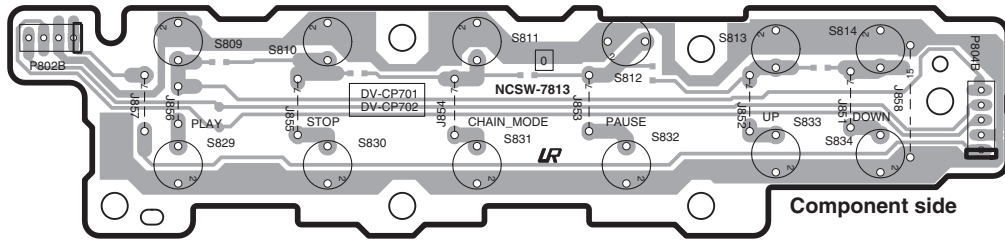
C

D

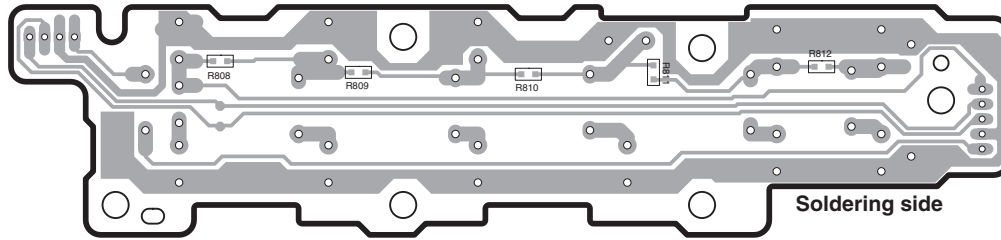
PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-6

U8: KEY OPERATION PC BOARD NASW-7813

1

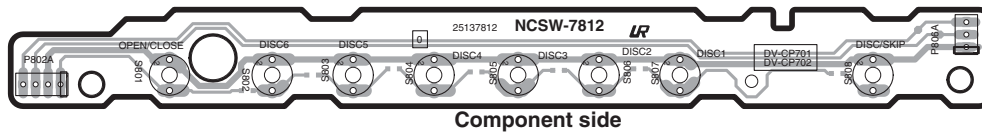


2

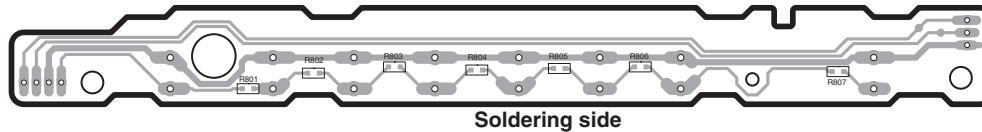


U7: DISC SELECT SWITCH PC BOARD NASW-7812

3



4



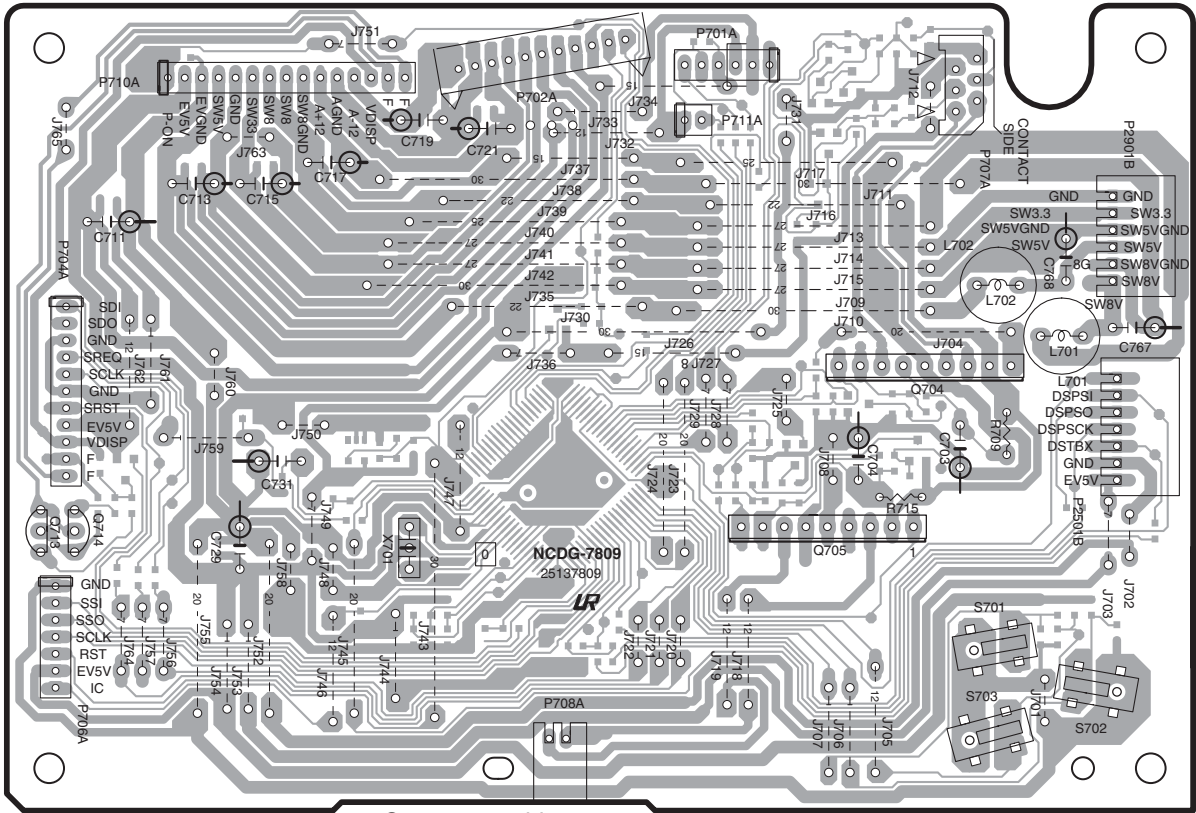
5

A B C D

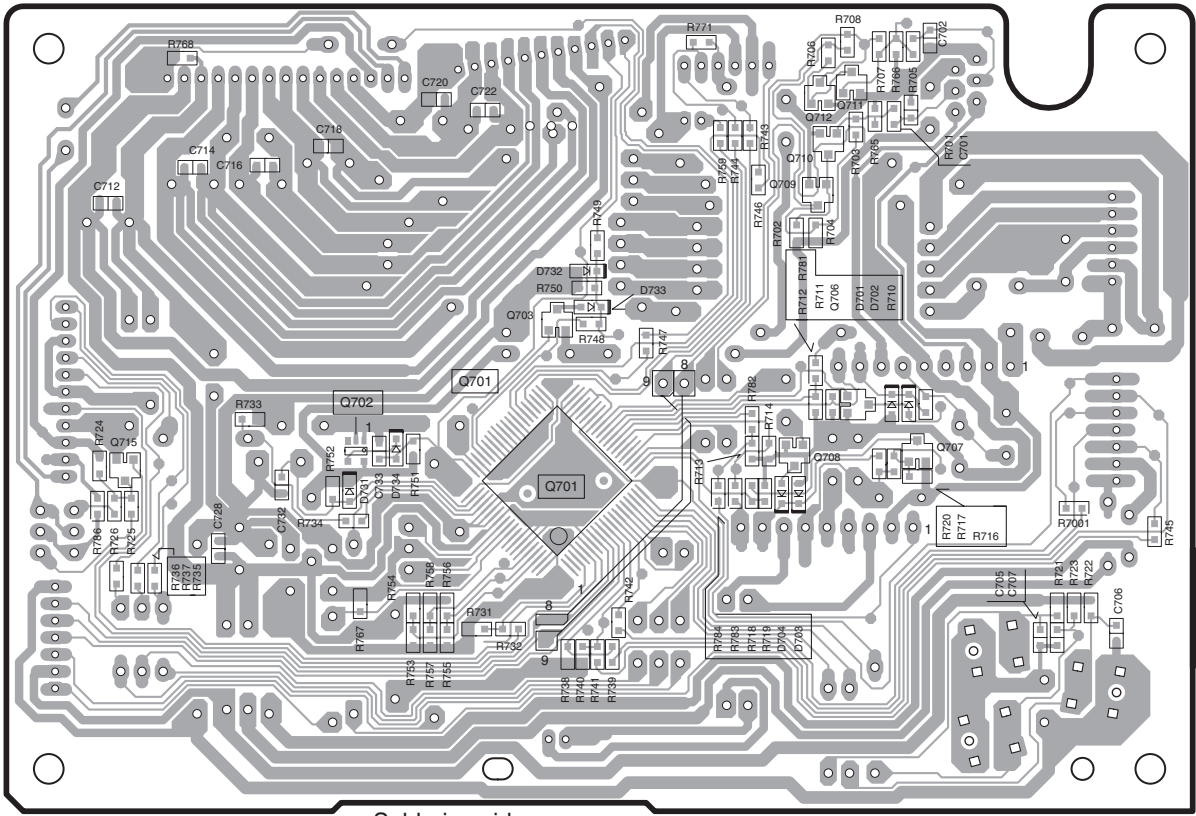
PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-7

U4: MECHANISM CONTROL PC BOARD NADG-7809

1
2
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Component side



Soldering side

A

B

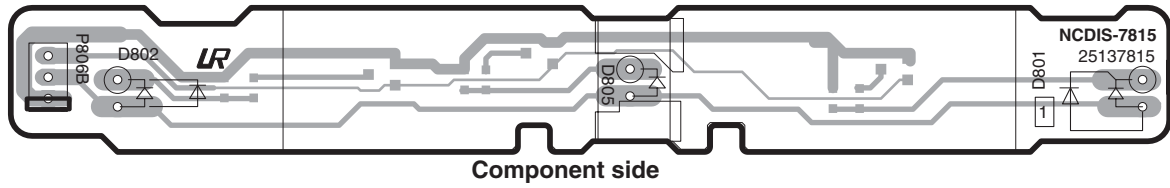
C

D

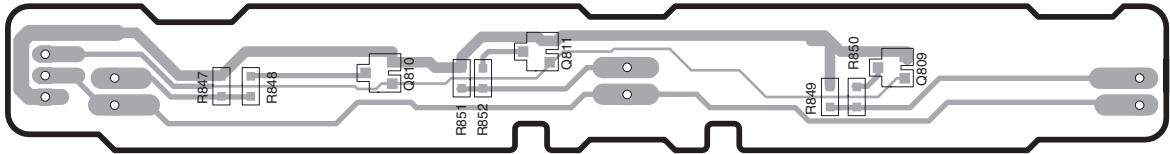
PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-8

1

U10: LED DISPLAY PC BOARD NADIS-7815

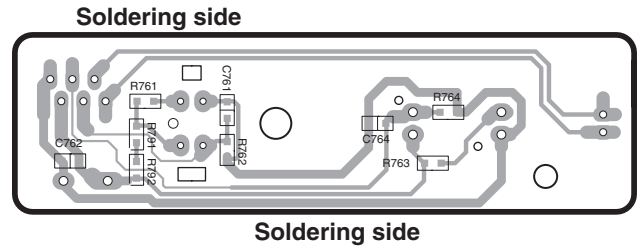
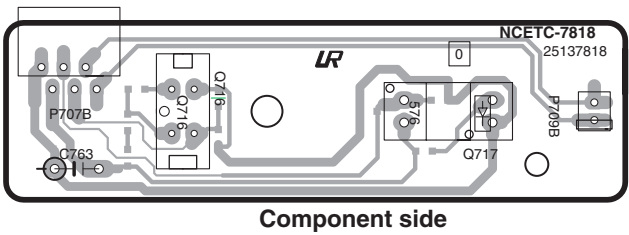


2



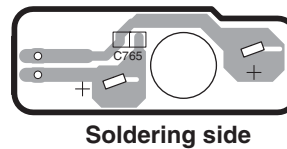
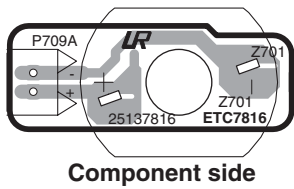
3

U13: DISC SENSOR PC BOARD NAETC-7818



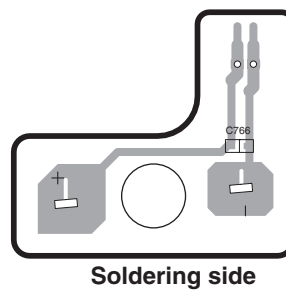
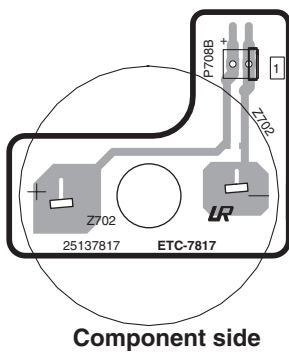
4

U11: ROULETTE MOTOR PC BOARD NAETC-7816



5

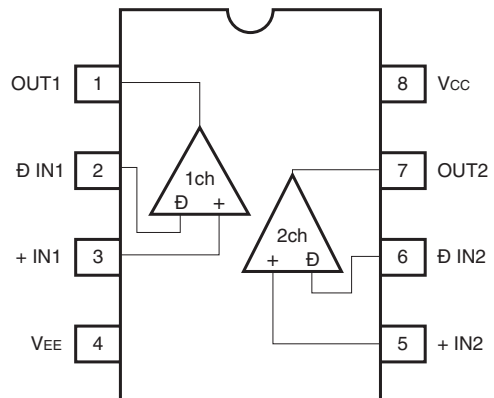
U12: LOADING MOTOR PC BOARD NAETC-7817



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

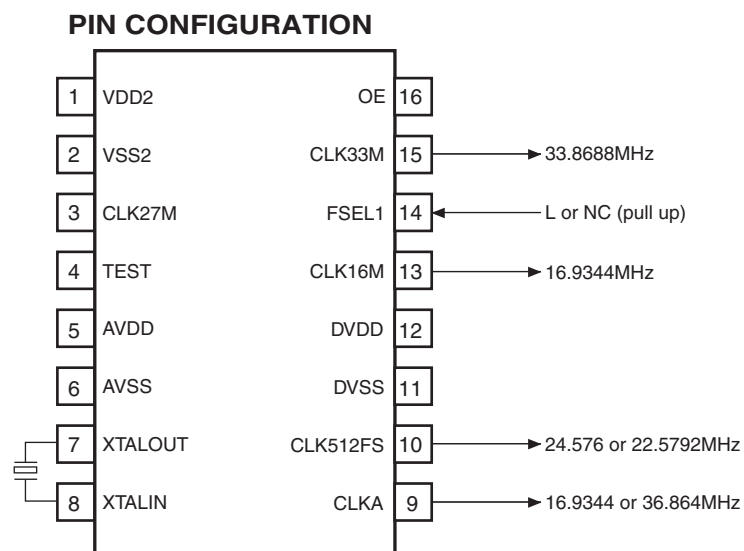
Q1102: BA4510FV OPE. AMP

Block diagram



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2601: BU2288FV CLOCK GENERATOR



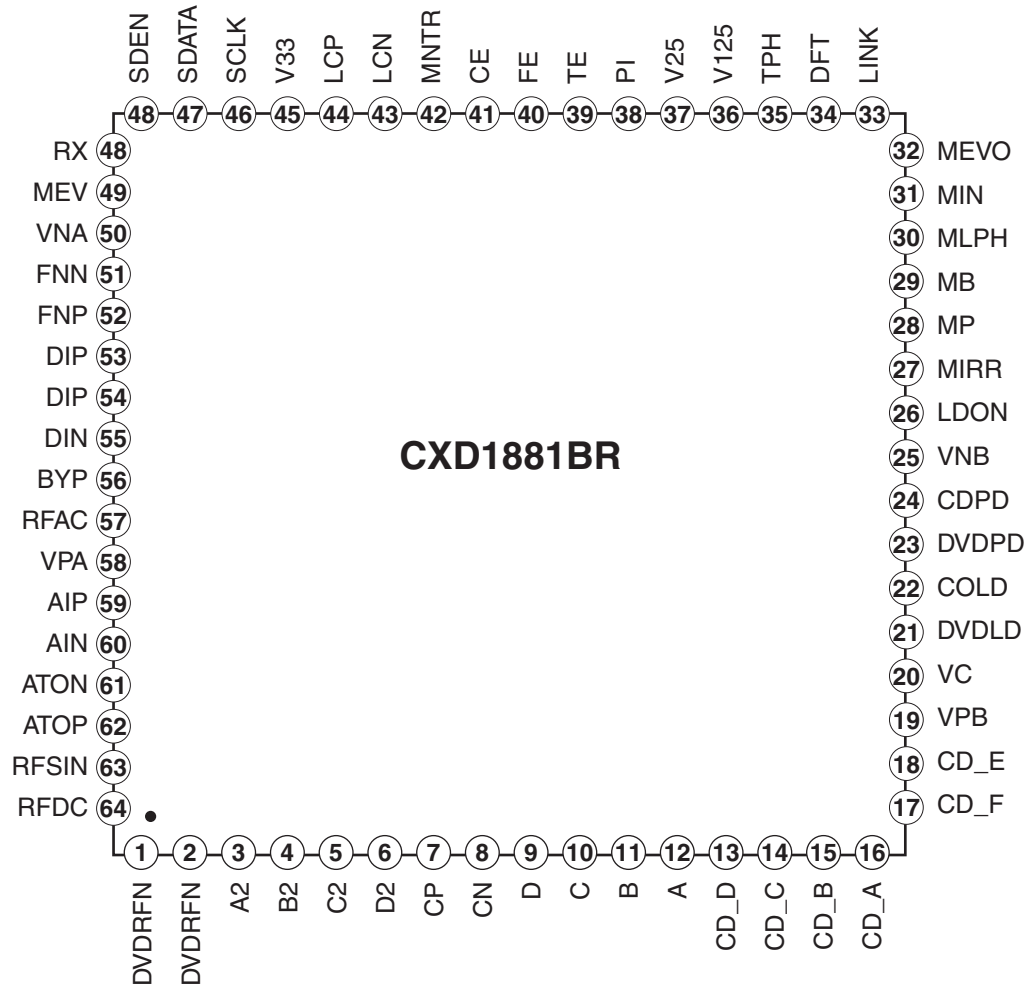
PIN FUNCTION

PIN No.	PIN NAME	FUNCTION
1	VDD2	Digital VDD for 27MHz clock output
2	VSS2	Digital GND for 27MHz clock output
3	CLK27M	27MHz clock output
4	TEST	Output for test
5	AVDD	Analog VDD
6	AVSS	Analog GND
7	XTALOUT	Standard crystal output
8	XTALIN	Standard crystal input
9	CLKA	Clock output (FSEL1=Open: 16.9344MHz, FEL1=36.864MHz)
10	CLK512FS	Clock output (FSEL1=Open: 22.5792MHz, FEL1=24.576MHz)
11	DVSS	Digital GND
12	DVDD	Digital VDD
13	CLK16M	16.9344MHz clock output
14	FSEL1	Output select: with pull up Open: 16.9344MHz (9pin), 22.5792MHz (10pin) L: 36.864MHz (9pin), 24.576Mhz (10pin)
15	CLK33M	33.8688MHz clock output
16	OE	Output enable (open: enable, L: disable): with pull up

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

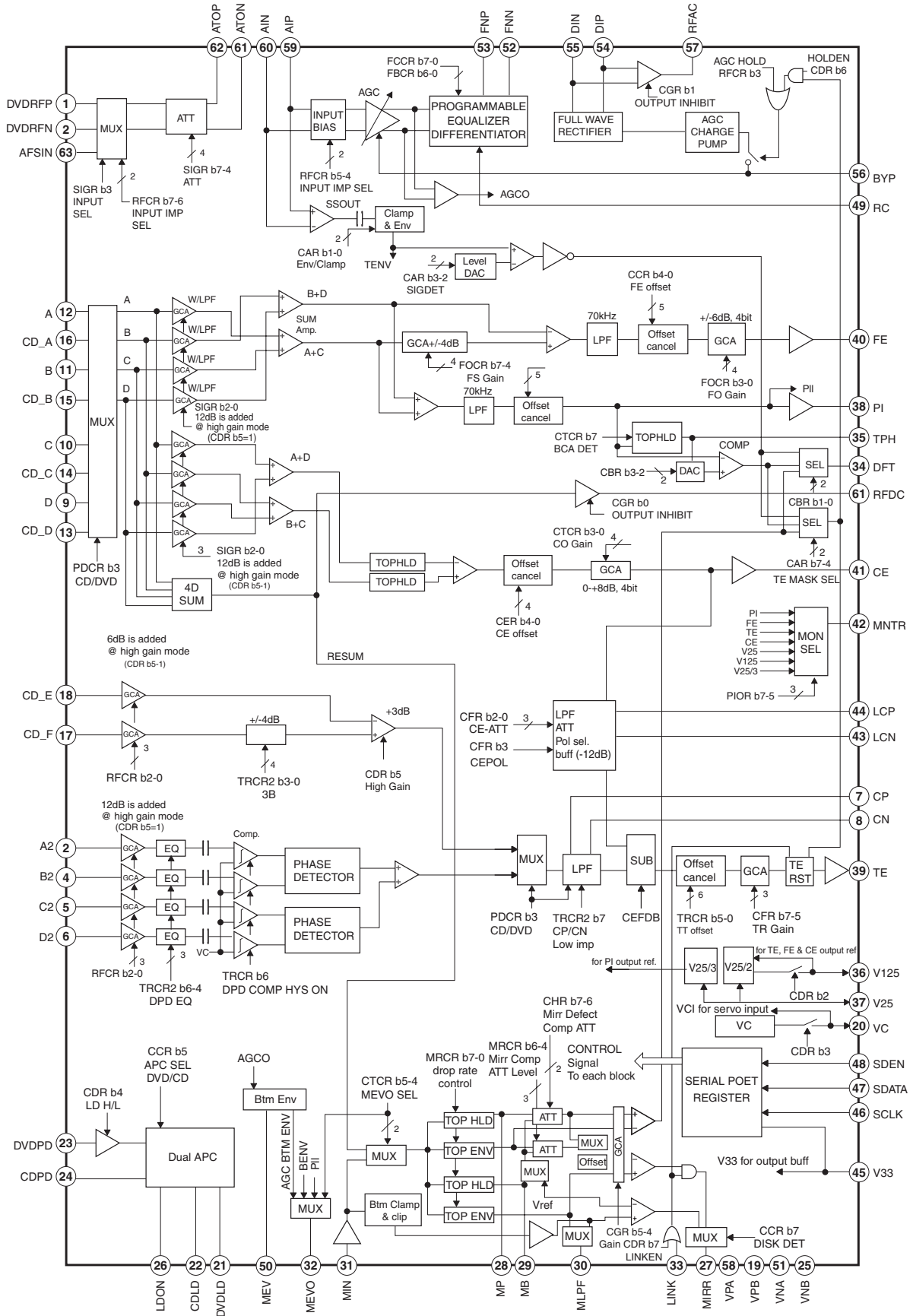
Q1001 : CXD1881BR DVD ANALOG FRONTEND-1

PIN LAYOUT



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1001 : CXD1881BR DVD ANALOG FRONTEND-2



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1001 : CXD1881BR DVD ANALOG FRONTEND-3

TERMINAL DESCRIPTION

Power supply

Pin Name	I/O	Description
VPA	-	Power supply for RF section and serial port.
VPB	-	Power supply for servo section.
VNA	-	Ground pin for RF section and serial port section.
VNB	-	Ground of servo section.
V33	-	Power supply for output buffer.
V25	-	Reference voltage pin for servo output.

Input pin

Pin name	I/O	Description
DVDRFP, DVDRFN	I	RF signal: RF attenuate deferential signal input pin.
RFSIN	I	RF signal: Single end RF signal input pin.
AIP, AIN	I	AGC Amp. input: Input pin of deferential amp.
DIP, DIN	I	Analog input pin for RF single buffer.
A, B, C, D	I	Interface input pin of photo detector.
A2, B2, C2, D2	I	Interface input pin of photo detector. AC coupling input pin for DPD from main beam photo detector.
CD_A, B, C, D	I	Interface input pin of CD photo detector.
CD_E, F	I	Interface input pin of CD photo detector.
MIN	I	RF signal input pin for mirror detection.
DVDPD	I	APC input pin. DVD APC input pin from monitor photo diode.
CDPD	I	APC input pin. CD APC input pin from monitor photo diode.
LDON	I	APC output control pin. H: LD output signal is active.
LINK	I	Link signal input pin.
	O	Mirror monitor signal output pin.

Output pin

Pin name	I/O	Description
ATOP, ATON	O	Deferential attenuation output pin.
FNP, FNN	O	Deferential normal output pin.
RFAC	O	Single end normal output pin
RFDC	O	RF signal output pin.
FE	O	Focus error signal output pin.
TE	O	Tracking error signal output pin.
CE	O	Center error signal output pin.
MEVO	O	RFDDC bottom envelope output pin.
DFT	O	Defect output pin.
MIRR	O	Mirror detection output pin.
OI	O	Puu in signal output pin.
DVDLD	O	APC output pin. For controlled laser power. (DVD APC)
CDLD	O	APC output pin. For controlled laser power. (CD APC)
MNTR	O	Monitor output pin.

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1001 : CXD1881BR DVD ANALOG FRONTEND-4

TERMINAL DESCRIPTION

Analog pins

Pin Name	I/O	Description
BYP	-	The RF AGC integration capacitor CBYP is connected between BYP and VPA.
CP	-	Deferential phase tracking LPF pin.
CN	-	Deferential phase tracking LPF pin.
LCP	-	The LPF terminal which lens shift offset cancel.
LCN	-	The LPF terminal which lens shift offset cancel.
MP	-	MIRR top hold pin.
MB	-	MIRR top hold pin.
MEV	-	RFDC bottom envelope pin.
MLPF	-	Mirror LPF pin.
TPH	-	PI top hold pin.
VC	-	Reference voltage output pin.
V125	-	Reference voltage output pin.
RX	-	Connect the reference resistor.

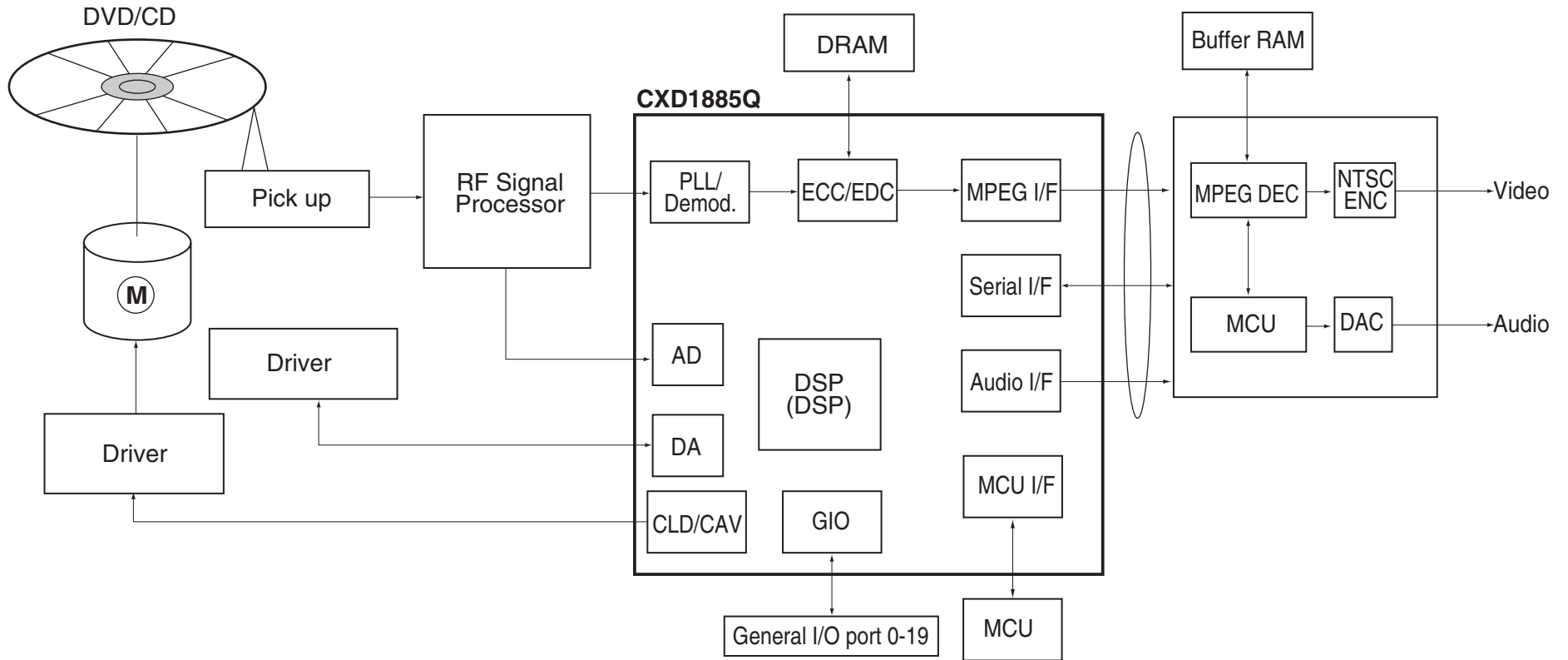
Serial port pin

Pin Name	I/O	Description
SDEN	I	Serial data enable input pin.
SDATA	I/O	Serial data input and output pin.
SCLK	I	Serial clock input pin.

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

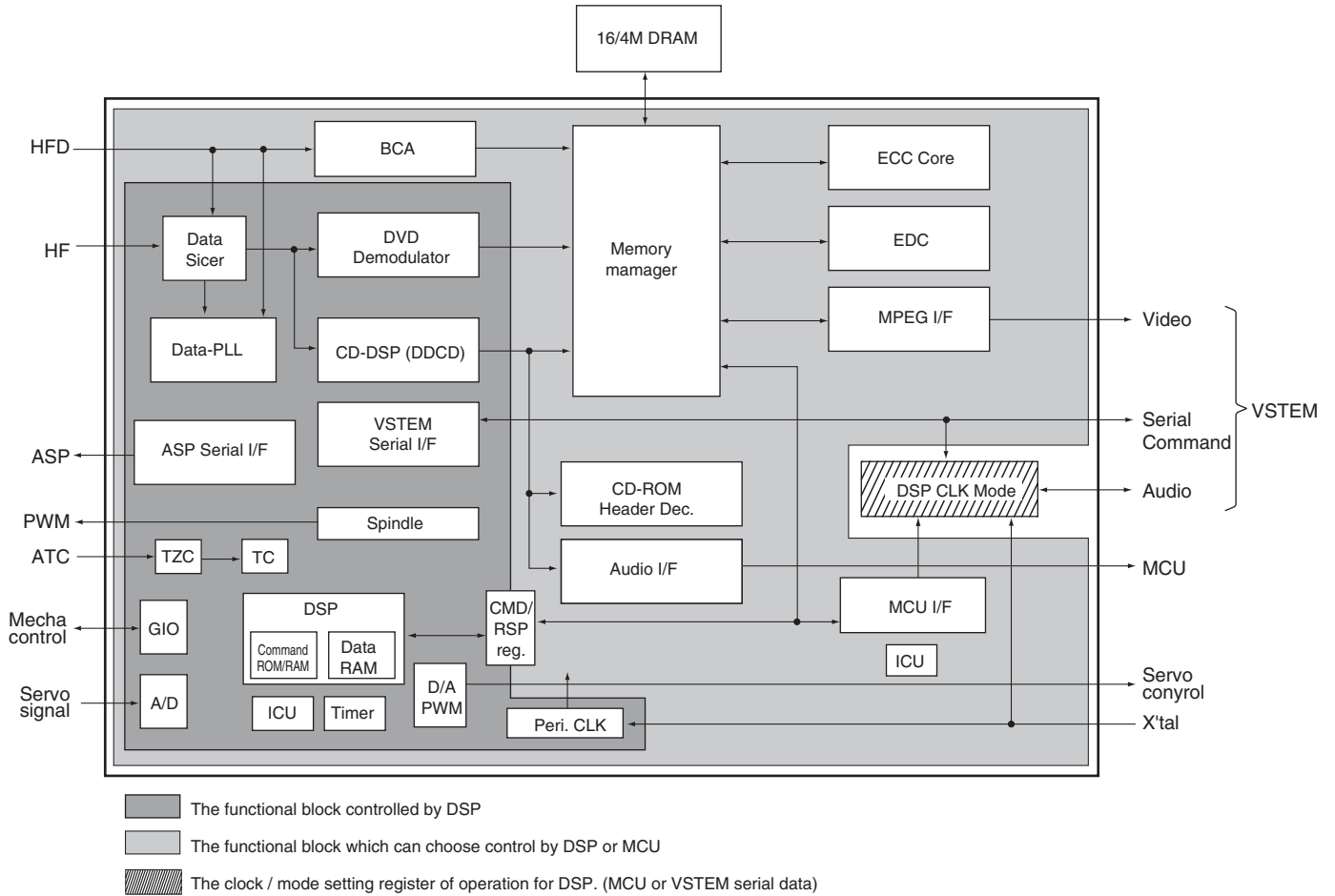
Q1201: CXD1885Q (DVD DSP)-1

BLOCK DIAGRAM



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

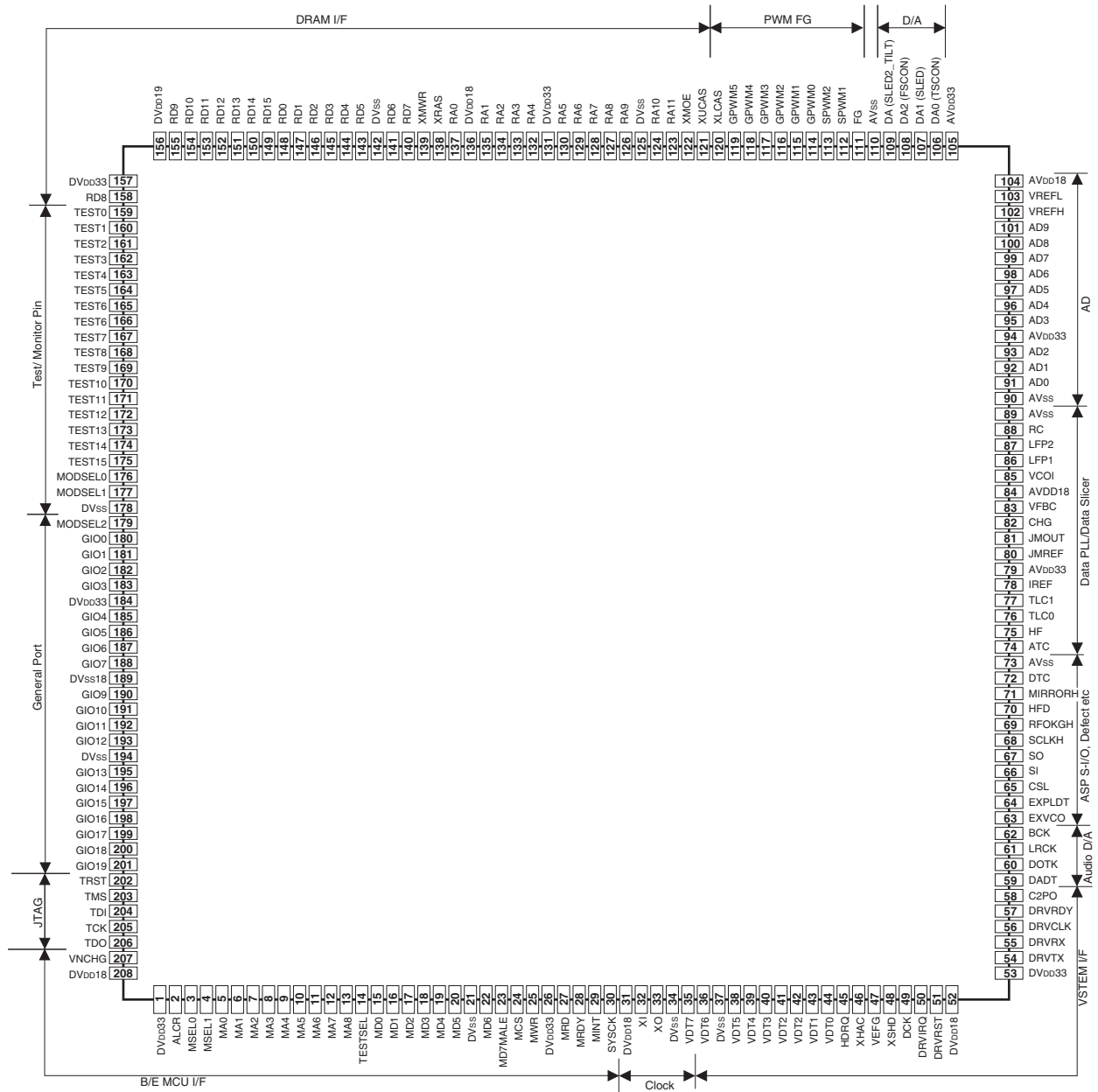
Q1201: CXD1885Q (DVD DSP)-2



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1201: CXD1885Q (DVD DSP)-3

PIN LAYOUT



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1201: CXD1885Q (DVD DSP)-4

No.	Sign	I/O	Classification	Description
1	DVDD33	P	VDD & GND	Digital power supply (3.3V)
2	ALCR	I	MCU I/F	Chip reset input port. L: Reset mode
3	MSEL0	I	MCU I/F	MUCH I/F mode select 0
4	MSEL1	I	MCU I/F	MUCH I/F mode select 1
5	MA0	I/O	MCU I/F	MUCH address input 0 / Data in/ out 0 port
6	MA1	I/O	MCU I/F	MUCH address input 1 / Data in/ out 1 port
7	MA2	I/O	MCU I/F	MUCH address input 2 / Data in/ out 2 port
8	MA3	I/O	MCU I/F	MUCH address input 3 / Data in/ out 3 port
9	MA4	I/O	MCU I/F	MUCH address input 4 / Data in/ out 4 port
10	MA5	I/O	MCU I/F	MUCH address input 5 / Data in/ out 5 port
11	MA6	I/O	MCU I/F	MUCH address input 6 / Data in/ out 6 port
12	MA7	I/O	MCU I/F	MUCH address input 7 / Data in/ out 7 port
13	MA8	I	MCU I/F	MUCH address input 8 / Data in/ out 8 port
14	TESTSEL	I	MCU I/F	Test select input port
15	MD0	I/O	MCU I/F	MUCH data in/ out 0 port. (LBS.)
16	MD1	I/O	MCU I/F	MUCH data in/ out 1 port
17	MD2	I/O	MCU I/F	MUCH data in/ out 2 port
18	MD3	I/O	MCU I/F	MUCH data in/ out 3 port
19	MD4	I/O	MCU I/F	MUCH data in/ out 4 port
20	MD5	I/O	MCU I/F	MUCH data in/ out 5 port
21	DVSS	P	VDD & GND	Digital GOD
22	MD6	I/O	MCU I/F	MUCH data in/ out 6 port
23	MD7	I/O	MCU I/F	MUCH data in/ out 7 port. (MOB)
24	MALE	I	MCU I/F	MUCH address latch signal input port
25	MCS	I	MCU I/F	MUCH chip select signal input port
26	MWR	I	MCU I/F	MUCH write strobe signal input port
27	DVDD33	P	VDD & GND	Digital power supply (3.3V)
28	MRD	I	MCU I/F	MUCH read strobe signal input port
29	MRDY	O	MCU I/F	MUCH reedy signal output port. L: Wait condition
30	MINT	O	MCU I/F	MUCH interruption output signal port. L: demand state of interruption
31	YSCK	O	Clock	Clock monitor output port
32	DVDD18	P	VDD & GND	Digital power supply (1.8V), for internal logic circuit
33	XI	I	Clock	Crystal oscillator connection port
34	XO	O	Clock	Crystal oscillator connection port
35	DVSS	P	VDD & GND	Digital GOD
36	VDT7	O	VSTEM A/V	MPEG data output 7 port
37	VDT6	O	VSTEM A/V	MPEG data output 6 port
38	DVSS	P	VDD & GND	Digital GOD
39	VDT5	O	VSTEM A/V	MPEG data output 5 port
40	VDT4	O	VSTEM A/V	MPEG data output 4 port
41	VDT3	O	VSTEM A/V	MPEG data output 3 port
42	VDT2	O	VSTEM A/V	MPEG data output 2 port
43	VDT1	O	VSTEM A/V	MPEG data output 1 port
44	VDT0	O	VSTEM A/V	MPEG data output 0 port
45	HDRQ	I	VSTEM A/V	MPEG data request input port
46	XHAC	O	VSTEM A/V	Data valid output port
47	VEFG	O	VSTEM A/V	BECK error select (Flag) output port. L: Error selector
48	XSHD	O	VSTEM A/V	DVD first sector flag signal output port
49	DCK	O	VSTEM A/V	Data strobe signal output port
50	DRVIRQ	O	VSTEM Command	Interrupt request output port. (for host)
51	DRVRST	I	VSTEM Command	Drive H/W reset input port. L: reset
52	DVSDD18	P	VDD & I/F	Digital power supply (1.8V), for internal logic circuit
53	DVSDD33	P	VDD & I/F	Digital power supply (3.3V), for I/O
54	DRVVTX	O	VSTEM Command	Serial data output port (for host)
55	DRVRX	I	VSTEM Command	Serial data input port (from host)
56	DRVCLK	I	VSTEM Command	Clock signal input port
57	DRVRDY	O	VSTEM Command	Drive ready signal output port. L: ready condition
58	C2PO	O	Audio I/F	CD-DSL C2 pointer output port
59	DADT	O	Audio I/F	Audio serial data output port
60	DOTX	O	Audio I/F	Digital audio output port
61	LRCK	O	Audio I/F	L/R clock output port
62	BCK	O	Audio I/F	Audio-bit clock output port
63	EXVCO	I	TEST/ Monitor	External channel clock input port
64	EXPLDT	I	TEST/ Monitor	External FRO data input port
65	CSL	O	ASP I/F	FRO signal processing port. Latch signal output control

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1201: CXD1885Q (DVD DSP)-5

No.	Sign	I/O	Classification	Description
66	SI	I	ASP I/F	FRO signal processing port. Serial data input control
67	SO	O	ASP I/F	FRO signal processing port. Serial data output control
68	SCLKH	O	ASP I/F	FRO signal processing port. Serial clock output control
69	RFOKGH	I	ASP I/F	FRO signal OK output port
70	HFD	I	ASP I/F	FRO lack signal input port
71	MIRRORH	I	ASP I/F	Detect mirror signal input port. H: mirror detect
72	DTC	I	ASP I/F	Track cross signal input port
73	AVSS	P	VDD & GND	Analog GND
74	ATC	I	Data PLL	Track cross signal input port. (Analog level input)
75	HFD	I	Data PLL	RF signal input port
76	TLC0	O	Data PLL	Asymmetry charge pump output port 0
77	TLC1	O	Data PLL	Asymmetry charge pump output port 1
78	IREF	I	Data PLL	Reference current setting port for asymmetry circuit
79	AVDD33	P	VDD & GND	Analog voltage port. 3.3V
80	JMREF	I	Data PLL	Reference current setting port for jitter monitor
81	JMOUT	O	Data PLL	Jitter monitor output port
82	CHG	I	Data PLL	Reference setting pin of charge pump for PLL data
83	VFBC	I	Data PLL	Reference setting pin for off-set of PLL data (VCO)
84	AVDD18	I	VDD & GND	Analog power supply. 1.8V
85	VCOI	I	Data PLL	Reference voltage input port for PLL data (VCO)
86	LPF1	O	Data PLL	To connect the loop filter for PLL data 1
87	LPF2	O	Data PLL	To connect the loop filter for PLL data 2
88	RC	I	Data PLL	Gain control port for PLL data (VCO)
89	AVSS	P	VDD & GND	Analog GND
90	AVSS	P	VDD & GND	Analog GND
91	AD0	I	ADC	AD0 input port
92	AD1	I	ADC	AD1 input port
93	AD2	I	ADC	AD2 input port
94	AVDD33	P	VDD & GND	Analog power supply. 3.3V
95	AD3	I	ADC	AD3 input port
96	AD4	I	ADC	AD4 input port
97	AD5	I	ADC	AD5 input port
98	AD6	I	ADC	AD6 input port
99	AD7	I	ADC	AD7 input port
100	AD8	I	ADC	AD8 input port
101	AD9	I	ADC	AD9 input port
102	VREFH	I/O	ADC	Maximum reference voltage input port for ADC
103	VREFL	I/O	ADC	Minimum reference voltage input port for ADC
104	AVDD18	P	VDD & GND	Analog power supply. 1.8V
105	AVDD33	P	VDD & GND	Analog power supply. 3.3V
106	DA0 (TSCON)	O	DAC	Track servo output port
107	DA1 (SLED)	O	DAC	Sled servo output port
108	DA2 (FSCON) DA3	O	DAC	Focus servo output port
109	(SLED2_T ILT)	O	DAC	Sled servo/ Tilt servo control output port
110	AVSS	P	VDD & GND	Analog GND
111	FG	I	SPM	FG signal input port
112	SPWM1	O	SPM	Spindle motor PWM output-1 port
113	SPWM2	O	SPM	Spindle motor PWM output-2 port
114	GPWM0	O	General PWM	General PWM output-0 port
115	GPWM1	O	General PWM	General PWM output-1 port
116	GPWM2	O	General PWM	General PWM output-2 port
117	GPWM3	O	General PWM	General PWM output-3 port
118	GPWM4	O	General PWM	General PWM output-4 port
119	GPWM5	O	General PWM	General PWM output-5 port
120	XLCAS	O	DRAM I/F	LCAS of DRAM output port
121	XUCAS	O	DRAM I/F	UCAS of DRAM output port
122	XMOE	O	DRAM I/F	Enable output port of DRAM
123	RA11	O	DRAM I/F	Address output port-11 of DRAM
124	RA10	O	DRAM I/F	Address output port-10 of DRAM
125	DVSS	P	VDD & GND	Digital GND
126	RA9	O	DRAM I/F	Address output port-9 of DRAM

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1201: CXD1885Q (DVD DSP)-6

No.	Sign	I/O	Classification	Description
127	RA8	O	DRAM I/F	Address output port-8 of DRAM
128	RA7	O	DRAM I/F	Address output port-7 of DRAM
129	RA6	O	DRAM I/F	Address output port-6 of DRAM
130	RA5	O	DRAM I/F	Address output port-5 of DRAM
131	DVDD33	P	VDD & GND	Digital power supply. 3.3V
132	RA4	O	DRAM I/F	Address output port-4 of DRAM
133	RA3	O	DRAM I/F	Address output port-3 of DRAM
134	RA2	O	DRAM I/F	Address output port-2 of DRAM
135	RA1	O	DRAM I/F	Address output port-1 of DRAM
136	DVDD18	P	VDD & GND	Digital power supply. 1.8V
137	RA0	O	DRAM I/F	Address output port-0 of DRAM
138	XRAS	O	DRAM I/F	RAS output port of DRAM
139	XMWR	O	DRAM I/F	Write enable port of DRAM
140	RD7	I/O	DRAM I/F	Data input port-7
141	RD6	I/O	DRAM I/F	Data input port-6
142	DVSS	P	VDD & GND	Digital GND
143	RD5	I/O	DRAM I/F	Data input port-5
144	RD4	I/O	DRAM I/F	Data input port-4
145	RD3	I/O	DRAM I/F	Data input port-3
146	RD2	I/O	DRAM I/F	Data input port-2
147	RD1	I/O	DRAM I/F	Data input port-1
148	RD0	I/O	DRAM I/F	Data input port-0
149	RD15	I/O	DRAM I/F	Data input port-15
150	RD14	I/O	DRAM I/F	Data input port-14
151	RD13	I/O	DRAM I/F	Data input port-13
152	RD12	I/O	DRAM I/F	Data input port-12
153	RD11	I/O	DRAM I/F	Data input port-11
154	RD10	I/O	DRAM I/F	Data input port-10
155	RD9	I/O	DRAM I/F	Data input port-9
156	DVDD18	P	VDD & GND	Digital power supply. 1.8V
157	DVDD33	P	VDD & GND	Digital power supply. 3.3V
158	RD8	I/O	DRAM I/F	Data input port-8
159	TEST0	O	Test/ Monitor	Test for I/O-0
160	TEST1	O	Test/ Monitor	Test for I/O-1
161	TEST2	O	Test/ Monitor	Test for I/O-2
162	TEST3	O	Test/ Monitor	Test for I/O-3
163	TEST4	O	Test/ Monitor	Test for I/O-4
164	TEST5	O	Test/ Monitor	Test for I/O-5
165	TEST6	O	Test/ Monitor	Test for I/O-6
166	TEST7	O	Test/ Monitor	Test for I/O-7
167	TEST8	O	Test/ Monitor	Test for I/O-8
168	TEST9	O	Test/ Monitor	Test for I/O-9
169	TEST10	O	Test/ Monitor	Test for I/O-10
170	TEST11	O	Test/ Monitor	Test for I/O-11
171	TEST12	O	Test/ Monitor	Test for I/O-12
172	TEST13	O	Test/ Monitor	Test for I/O-13
173	TEST14	O	Test/ Monitor	Test for I/O-14
174	TEST15	O	Test/ Monitor	Test for I/O-15
175	MODSEL0	I	Test/ Monitor	Test mode select-0 input port
176	MODSEL1	I	Test/ Monitor	Test mode select-1 input port
177	DVSS	P	VDD & GND	Digital GND
178	MODSEL2	I	Test/ Monitor	Test mode select-2 input port
179	GIO0	I/O	General Port	General port-0
180	GIO1	I/O	General Port	General port-1
181	GIO2	I/O	General Port	General port-2
182	GIO3	I/O	General Port	General port-3
183	DVDD33	P	VDD & GND	Digital power supply. 3.3V
184	GIO4	I/O	General Port	General port-4
185	GIO5	I/O	General Port	General port-5
186	GIO6	I/O	General Port	General port-6
187	GIO7	I/O	General Port	General port-7
188	DVDD18	I/O	VDD & GND	Digital power supply. 1.8V
189	GIO8	I/O	General Port	General port-8
190	GIO9	I/O	General Port	General port-9
191	GIO10	I/O	General Port	General port-10
192	GIO11	I/O	General Port	General port-11

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

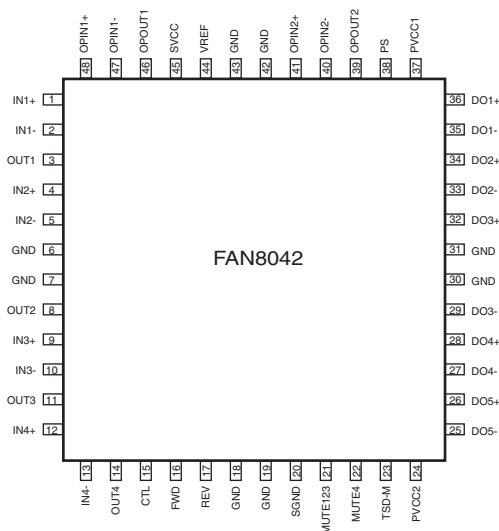
Q1201: CXD1885Q (DVD DSP)-7

No.	Sign	I/O	Classification	Description
193	GIO12	I/O	General Port	General port-12
194	DVSS	P	VDD & GND	Digital GND
195	GIO13	I/O	General Port	General port-13
196	GIO14	I/O	General Port	General port-14
197	GIO15	I/O	General Port	General port-15
198	GIO16	I/O	General Port	General port-16
199	GIO17	I/O	General Port	General port-17
200	GIO18	I/O	General Port	General port-18
201	GIO19	I/O	General Port	General port-19
202	TRST	I	JTAG I/F	JYAG reset input port
203	TMS	I	JTAG I/F	JYAG mode select input port
204	TDI	I	JTAG I/F	JYAG data input port
205	TCK	I	JTAG I/F	JYAG clock input port
206	TDO	O	JTAG I/F	JYAG data output port
207	VMCHG	I	MCU I/F	System select port for DSP. (L: VSTEM, H: External MCU)
208	DVDD18	P	VDD & GND	Digital power supply. 1.8V (for internal logic)

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1101: FAN8042 5-CH MOTOR DRIVER-1

PIN ASSIGNMENT

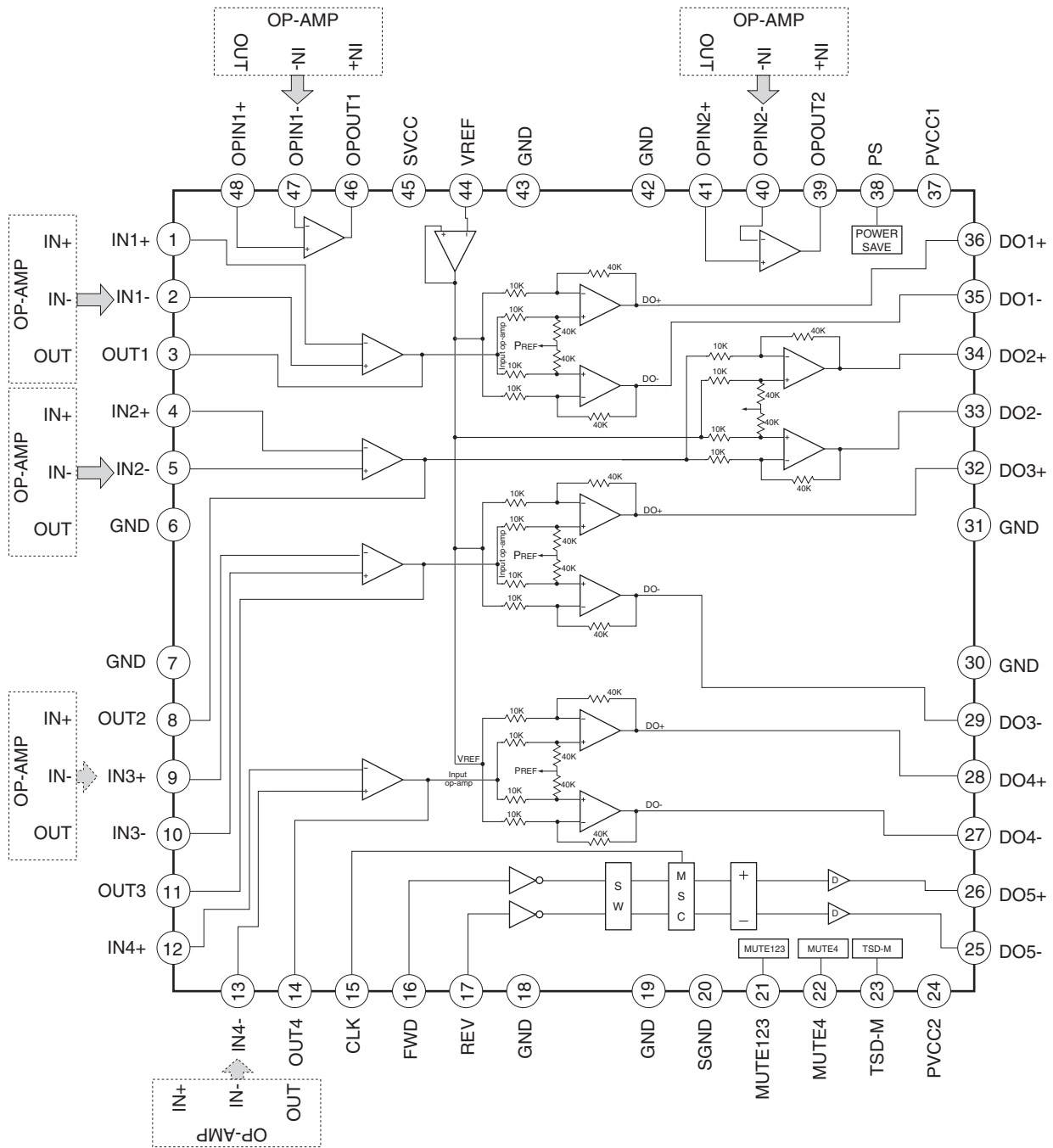


PIN DEFINITION

Pin Number	Pin Name	I/O	Pin Function description
1	IN1+	I	CH1 op-amp input (+)
2	IN1-	I	CH1 op-amp input (-)
3	OUT1	O	CH1 op-amp output
4	IN2+	I	CH2 op-amp input (+)
5	IN2-	I	CH2 op-amp input (-)
6	GND	-	Ground
7	GND	-	Ground
8	OUT2	O	CH2 op-amp output
9	IN3+	I	CH3 op-amp input (+)
10	IN3-	I	CH3 op-amp input (-)
11	OUT3	O	CH3 op-amp output
12	IN4+	I	CH4 op-amp input (+)
13	IN4-	I	CH4 op-amp input (-)
14	OUT4	O	CH4 op-amp output
15	CTL	I	CH5 motor speed control
16	FWD	I	CH5 forward input
17	REV	I	CH5 reverse input
18	GND	-	Ground
19	GND	-	Ground
20	SGND	-	Signal Ground
21	MUTE123	I	Mute for CH1,2,3
22	MUTE4	I	Mute for CH4
23	TSD-M	O	TSD monitor
24	PVCC2	-	Power supply voltage 2 (For CH4, CH5)
25	DO5-	O	CH5 driver output (-)
26	DO5+	O	CH5 driver output (+)
27	DO4-	O	CH4 driver output (-)
28	DO4+	O	CH4 driver output (+)
29	DO3-	O	CH3 driver output (-)
30	GND	-	Ground
31	GND	-	Ground
32	DO3+	O	CH3 driver output (+)
33	DO2-	O	CH2 driver output (-)
34	DO2+	O	CH2 driver output (+)
35	DO1-	O	CH1 driver output (-)
36	DO1+	O	CH1 driver output (+)
37	PVCC1	-	Power supply voltage 1 (For CH1, CH2, CH3)
38	PS	I	Power save
39	OPOUT2	O	Normal op-amp2 output
40	OPIN2-	I	Normal op-amp2 input (-)
41	OPIN2+	I	Normal op-amp2 input (+)
42	GND	-	Ground
43	GND	-	Ground
44	VREF	I	Bias voltage input
45	SVCC	-	Signal & op-amps supply voltage
46	OPOUT1	O	Normal op-amp1 output
47	OPIN1-	I	Normal op-amp1 input (-)
48	OPIN1+	I	Normal op-amp1 input (+)

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

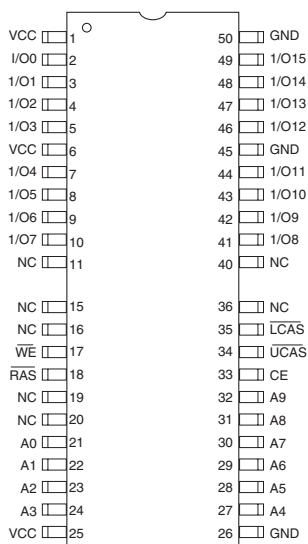
Q1101: FAN8042 5-CH MOTOR DRIVER-2



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1251: IC41LV16100-50T 16-MBIT DYNAMIC RAM

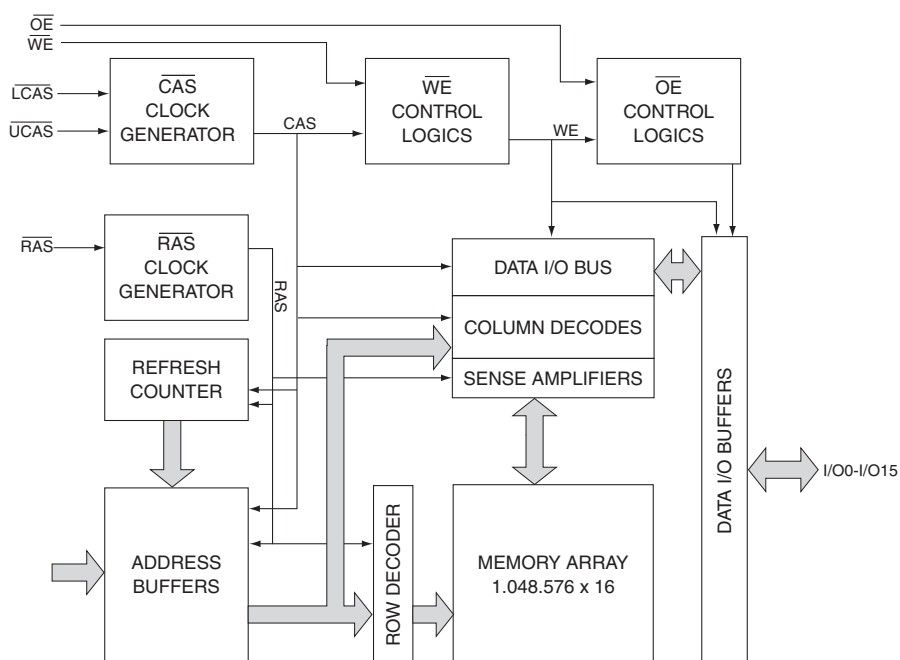
PIN CONFIGURATION



PIN DESCRIPTION

- A0-A9 Address input
- I/O0-15 Data inputs/outputs
- WE Write enable
- OE Output enable
- RAS Row address strobe
- UCAS Upper column address strobe
- LCAS Lower column address strobe
- VCC Power
- GND Ground
- NC No connection

FUNCTIONAL BLOCK DIAGRAM



TRUTH TABLE

Function	RAS	LCAS	UCAS	WE	OE	Address tr/tc	I/O	
Standby	H	H	H	X	X	X	High-Z	
Read: Word	L	L	L	H	L	ROW/COL	Dout	
Read: Lower Byte	L	L	H	H	L	ROW/COL	Lower Byte. Dout Upper Byte, High-Z	
Read: Upper Byte	L	H	L	H	L	ROW/COL	Lower Byte, High-Z Upper Byte. Dout	
Write: Word (Early Write)	L	L	L	L	X	ROW/COL	Din	
Write: Lower Byte (Early Write)	L	L	H	L	X	ROW/COL	Lower Byte. Din Upper Byte, High-Z	
Write: Upper Byte (Early Write)	L	H	L	L	X	ROW/COL	Lower Byte, High-Z Upper Byte. Din	
Read Write	L	L	L	H-L	H-L	ROW/COL	Dout, Din	
EDO Page-Mode Read	1st Cycle	L	H-L	H-L	H	L	ROW/COL	Dout
	2nd Cycle	L	H-L	H-L	H	L	NA/COL	Dout
	Any Cycle	L	L-H	L-H	H	L	NA/NA	Dout
EDO Page-Mode Read	1st Cycle	L	H-L	H-L	L	X	ROW/COL	Din
	2nd Cycle	L	H-L	H-L	L	X	NA/COL	Din
EDO Page-Mode Read-Write	1st Cycle	L	H-L	H-L	H-L	L	ROW/COL	Dout, Din
	2nd Cycle	L	H-L	H-L	H-L	L-H	NA/COL	Dout, Din
Hidden Refresh	1st Cycle	L-H-L	L	L	-H	L	ROW/COL	Dout
	2nd Cycle	L-H-L	L	L	L	X	ROW/COL	Dout
RAS-Only Refresh	L	H	H	X	X	ROW/NA	High-Z	
CBR Refresh	H-L	L	L	X	X	X	High-Z	

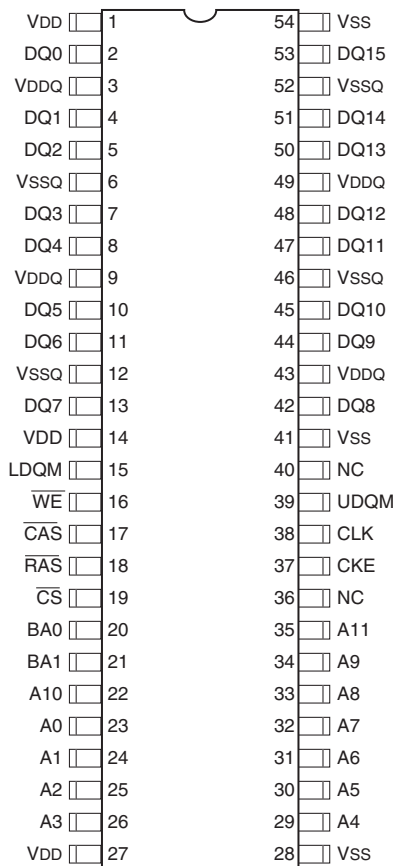
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2303 : IC42S16400-7T SYNCHRONOUS DYNAMIC RAM

The IC42S16400 are high-speed 67, 108, 864-bit synchronous dynamic random-access memories, organized as 2,097, 152 x 8 x 4 and 1,48, 576 x 16 x 4 (word x bit x bank), respectively. The synchronous DRAMs achieved high-speed data transfer using the pipeline architecture and clock frequency up to 133MHz for -7.

All input and outputs are synchronized with the positive edge of the clock. The synchronous DRAMs are compatible with Low Voltage TTL.

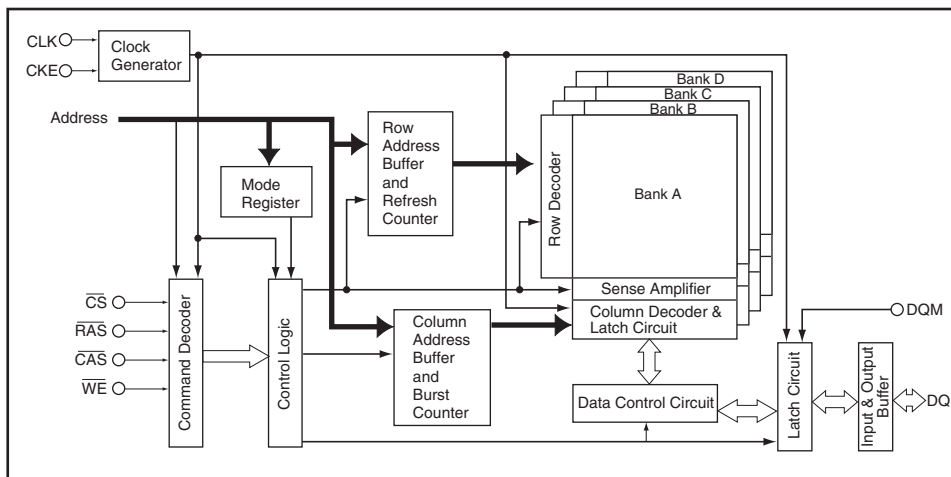
PIN CONFIGURATIONS



PIN DESCRIPTIONS

CLK	Master Clock	DQM	DQ Mask Enable
CKE	Clock Enable	A0 - 11	Address Input
CS	Chip Select	BA0, 1	Bank Address
RAS	Row Address Strobe	VDD	Power Supply
CAS	Column Address Strobe	VDDQ	Power Supply for DQ
WE	Write Enable	VSS	Ground
DQ0 - DQ15	Data I/O	VSSQ	Ground for DQ

BLOCK DIAGRAM

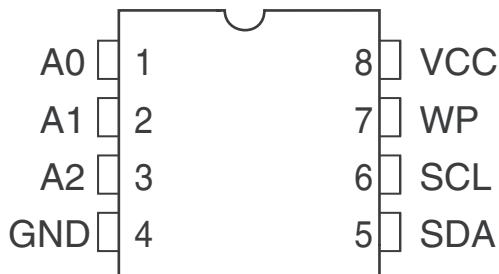


IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2003 : IS24C08-3Z EEPROM

(8K-Bit 2-Wire Serial CMOS EEPROM)

PIN CONFIGURATION



PIN DESCRIPTIONS

A0-A2	Address Inputs
SDA	Serial Address/Data I/O
SCL	Serial Clock Input
WP	Write Protect Input
Vcc	Power Supply
GND	Ground

SCL

This input clock pin is used to synchronize the data transfer to and from the device.

SDA

The SDA is a Bi-directional pin used to transfer addresses and data into and out of the device. The SDA pin is an open drain output and can be wire-Or'd with other open drain or open collector outputs. The SDA bus requires a pullup resistor to Vcc.

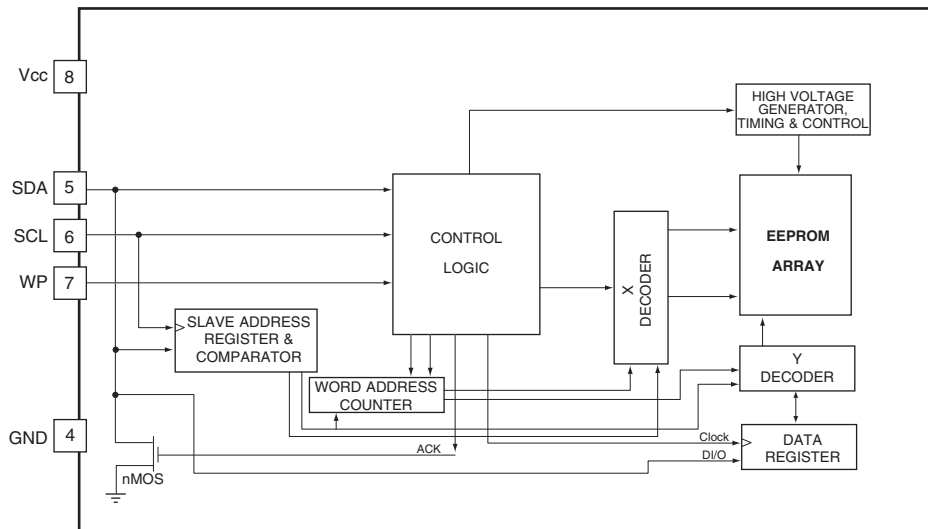
A0, A1, A2

The A0, A1 and A2 are the device address inputs. The IS24C08 only use A2 input for hardwire addressing and a total of two devices may be addressed on a single bus system. The A0 and A1 pins are not used by IS24C08. They may be left floating or tied to either GND or Vcc.

WP

WP is the Write Protect pin. On the and 24C08, if the WP pin is tied to Vcc the entire array becomes Write Protected (Read only). On the 24C16, if the WP pin is tied to Vcc the upper half array becomes Write Protected (Read only). When WP is tied to GND or left floating normal read/write operations are allowed to the device.

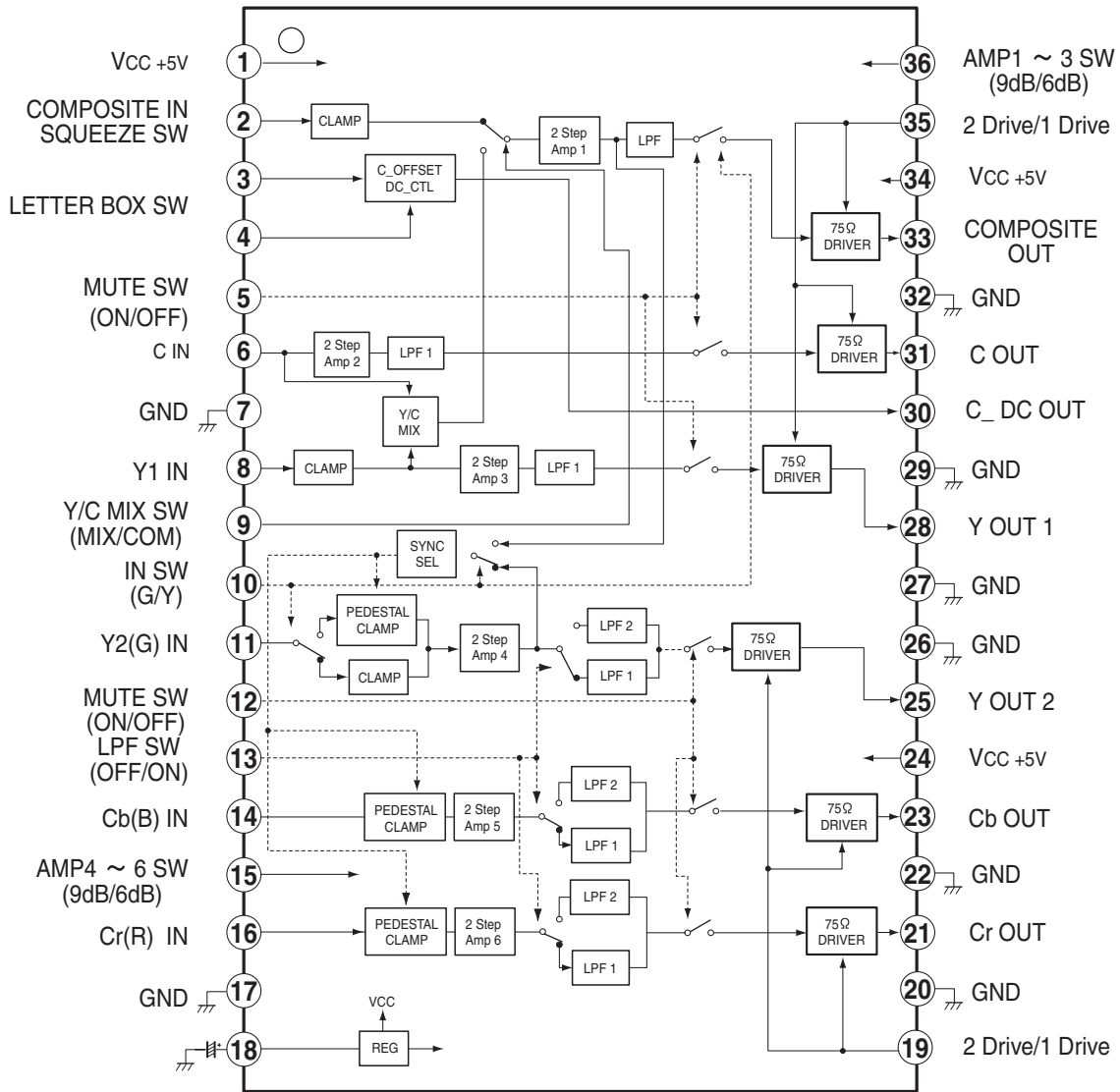
FUNCTIONAL BLOCK DIAGRAM



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

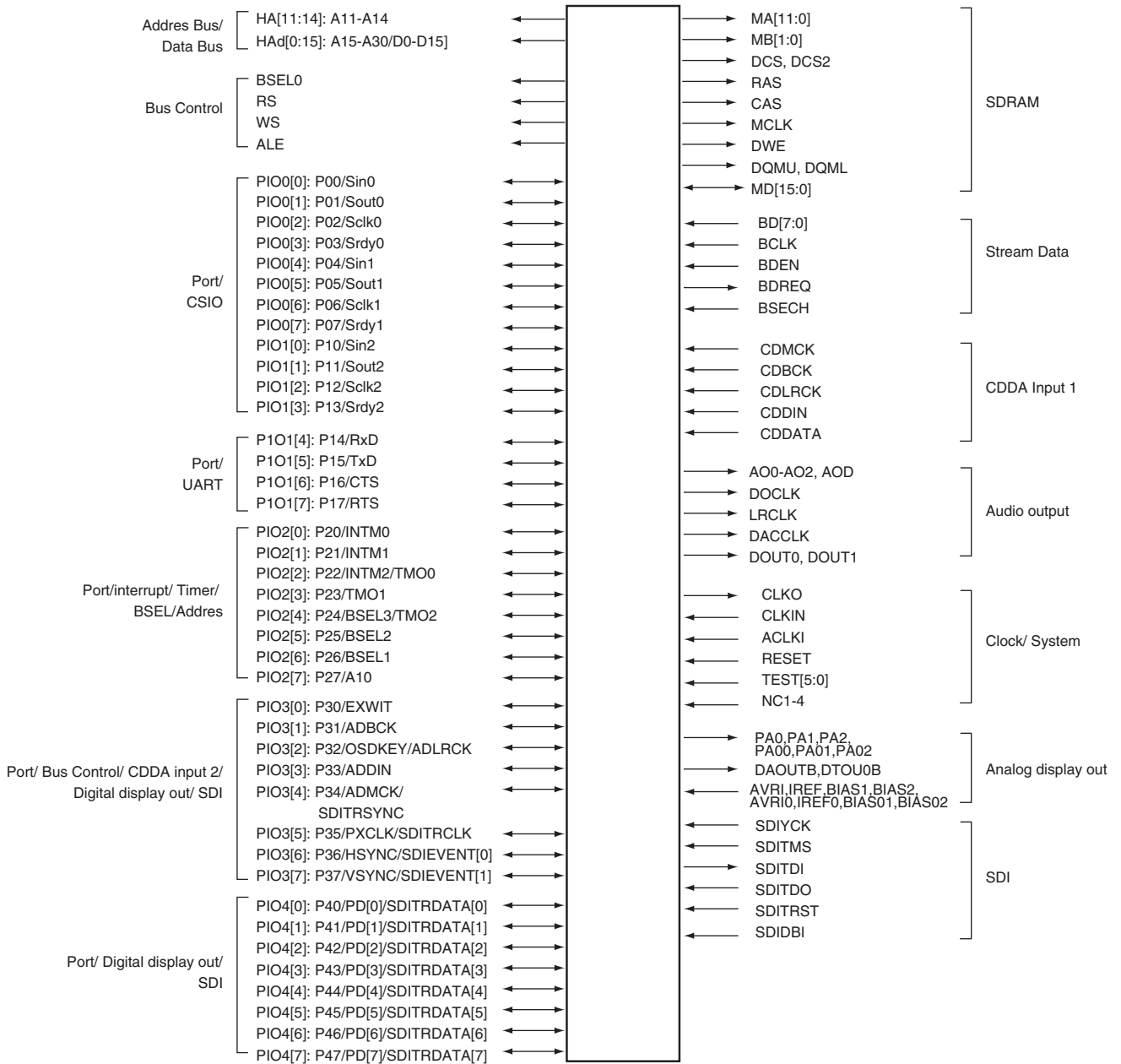
Q201 : LA73054 6-CHANNEL VIDEO DRIVER

Block Diagram



IC BLOCK DIAGRAM/TERMINAL DESCRIPTION

Q2001 : M65783AFP (BACKEND DECODER)-1



IC BLOCK DIAGRAM/TERMINAL DESCRIPTION

PORT ASSIGNMENT-1

Class	Port name	Function 1		Function 2		Function 3	
		I/O	Description	I/O	Description	I/O	Description
CPU outside Bus I/F	HA[11]	O	CPU Address				
	HA[12]	O	CPU Address				
	HA[13]	O	CPU Address				
	HA[14]	O	CPU Address				
	HA[0]	I/O	CPU Address/ Data				
	HAD[0]	I/O	CPU Address/ Data				
	HAD[1]	I/O	CPU Address/ Data				
	HAD[2]	I/O	CPU Address/ Data				
	HAD[3]	I/O	CPU Address/ Data				
	HAD[4]	I/O	CPU Address/ Data				
	HAD[5]	I/O	CPU Address/ Data				
	HAD[6]	I/O	CPU Address/ Data				
	HAD[7]	I/O	CPU Address/ Data				
	HAD[8]	I/O	CPU Address/ Data				
	HAD[9]	I/O	CPU Address/ Data				
	HAD[10]	I/O	CPU Address/ Data				
	HAD[11]	I/O	CPU Address/ Data				
	HAD[12]	I/O	CPU Address/ Data				
	HAD[13]	I/O	CPU Address/ Data				
	HAD[14]	I/O	CPU Address/ Data				
	HAD[15]	I/O	CPU Address/ Data				
		BSEL0	O	Block select 0			
	RS	O	Read Strobe				
	WS	O	Wright Strobe				
	ALE	O	Address Latch Enable				
	PI03[0]	I/O	Port 30	I	EXWIT		
CPU Circumference function	PI00[0]	I/O	Port 00	I	Sin0		
	PI00[1]	I/O	Port 01	O	Sout0		
	PI00[2]	I/O	Port 02	I/O	Sclk0		
	PI00[3]	I/O	Port 03	I/O	Srdy0		
	PI00[4]	I/O	Port 04	I	Sin1		
	PI00[5]	I/O	Port 05	O	Sout1		
	PI00[6]	I/O	Port 06	I/O	Sclk1		
	PI00[7]	I/O	Port 07	I/O	Srdy1		
	PI01[0]	I/O	Port 10	I	Sin2		
	PI01[1]	I/O	Port 11	O	Sout2		
	PI01[2]	I/O	Port 12	I/O	Sclk2		
	PI01[3]	I/O	Port 13	I/O	Srdy2		
	PI01[4]	I/O	Port 14	I	RxD		
	PI01[5]	I/O	Port 15	O	TxD		
	PI01[6]	I/O	Port 16	I	CTS		
	PI01[7]	I/O	Port 17	O	RTS		
	PI02[0]	I/O	Port 20	I	INTM0		
	PI02[1]	I/O	Port 21	I	INTM1		
	PI02[2]	I/O	Port 22	I	INTM2	O	TM00
	PI02[3]	I/O	Port 23			O	TM01
	PI02[4]	I/O	Port 24	O	BSEL3	O	TM02
	PI02[5]	I/O	Port 25	O	BSEL2		
	PI02[6]	I/O	Port 26	O	BSEL1		
	PI02[7]	I/O	Port 27	O	HA10		

IC BLOCK DIAGRAM/TERMINAL DESCRIPTION

PORT ASSIGNMENT-3

Class	Port name	Function 1		Function 2		Function 3	
		I/O	Description	I/O	Description	I/O	Description
SDRAM I/F	DCS	O	SDRAM Chip select output pin				
	DCS2	O	SDRAM Chip select output pin				
	MCLK	O	SDRAM Clock output				
	RAS	O	SDARAM RAS output				
	CAS	O	SDARAM CAS output				
	DQML	O	SDARAM Data master				
	DQMU	O	SDARAM Data master				
	DWE	O	SDARAM Wright enable output				
	MBA[1]	O	SDRAM Bank Address				
	MD[0]	I/O	SDRAM Data input/ output				
	MD[1]	I/O	SDRAM Data input/ output				
	MD[2]	I/O	SDRAM Data input/ output				
	MD[3]	I/O	SDRAM Data input/ output				
	MD[4]	I/O	SDRAM Data input/ output				
	MD[5]	I/O	SDRAM Data input/ output				
	MD[6]	I/O	SDRAM Data input/ output				
	MD[7]	I/O	SDRAM Data input/ output				
	MD[8]	I/O	SDRAM Data input/ output				
	MD[9]	I/O	SDRAM Data input/ output				
MD[10]	I/O	SDRAM Data input/ output					
MD[11]	I/O	SDRAM Data input/ output					
MD[12]	I/O	SDRAM Data input/ output					
MD[13]	I/O	SDRAM Data input/ output					
MD[14]	I/O	SDRAM Data input/ output					
MD[15]	I/O	SDRAM Data input/ output					
Stream I/F	BDREQ	O	Stream Request output pin				
	BDEN	I	Stream Enable input pin				
	BSECH	I	Sector display of head				
	BCLK	I	Stream data input pin				
	BD[0]	I	Stream data input pin				
	BD[1]	I	Stream data input pin				
	BD[2]	I	Stream data input pin				
	BD[3]	I	Stream data input pin				
	BD[4]	I	Stream data input pin				
	BD[5]	I	Stream data input pin				
	BD[6]	I	Stream data input pin				
BD[7]	I	Stream data input pin					
Audio I/F	CDNCK	I	CDDA Master clock input pin				
	CDBCK	I	CDDA Bit clock input pin				
	CDLRCK	I	CDDA L/R clock input pin				
	CDDIN	I	CDDA PCM data input pin				
	CDDATA	I	CDDA Digital data input pin				
	DACCLK	O	Clock output pin for DAC				
	DOCLK	O	Bit clock output pin for DAC				
	LRCLK	O	L/R clock output pin for DAC				
	AO0	O	Audio PCM output pin				
	AO1	O	Audio PCM output pin				
	AO2	O	Audio PCM output pin				
	AOD	O	Audio PCM output pin				
	DOUT0	O	Audio digital output pin				
	DOUT1	O	Audio digital output pin				

IC BLOCK DIAGRAM/TERMINAL DESCRIPTION

PORT ASSIGNMENT-4

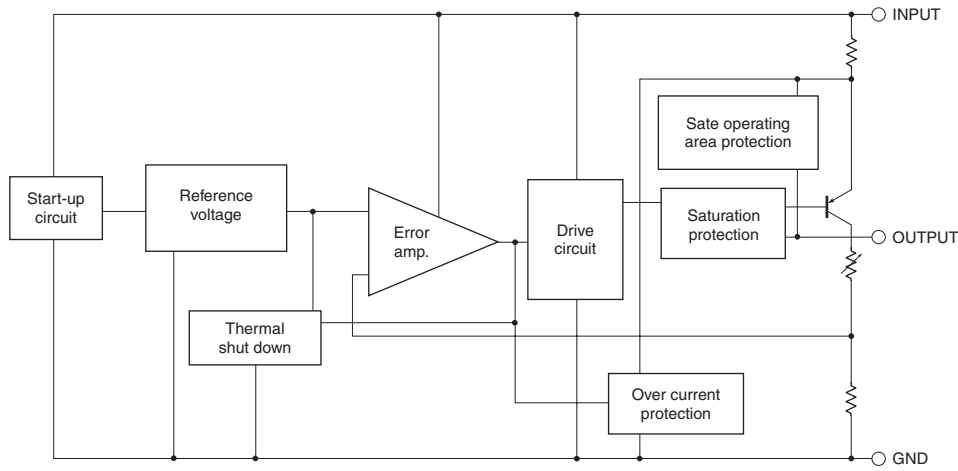
Class	Port name	Function 1		Function 2		Function 3	
		I/O	Description	I/O	Description	I/O	Description
System	ACLKI	I	Audio clock input pin				
	CLKIN	I	System clock input pin				
	CLK0	O	Clock output pin				
	RESET	I	Reset input pin				
	TEST[0]	I	Test mode input pin				
	TEST[1]	I	Test mode input pin				
	TEST[2]	I	Test mode input pin				
	TEST[3]	I	Test mode input pin				
	TEST[4]	I	Test mode input pin				
	TEST[5]	I	Test mode input pin				
	NC1	I	Test mode input pin				
	NC2	I	Test mode input pin				
	NC3	I	Test mode input pin				
	NC4	I	Test mode input pin				

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2901, Q2904 : MPC29M33T REGURATOR IC 3.3 V output

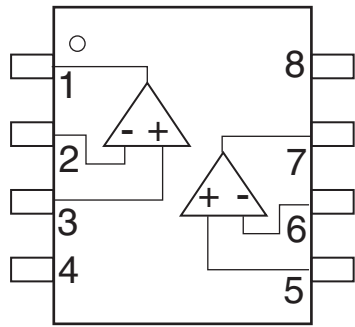
Q2902, Q2903 : MPC2918T REGURATOR IC 1.8 V output

BLOCK DIAGRAM



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

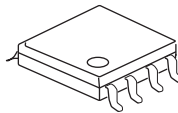
Q1002: NJM2115V (2-ch Ope. amp.)



(Top view)

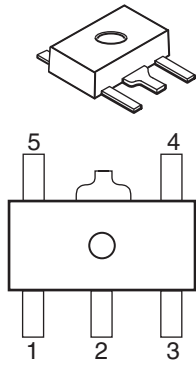
Pin description

1. A OUTPUT
2. A -INPUT
3. A +INPUT
4. V-
5. B +INPUT
6. B -INPUT
7. B OUTPUT
8. V+

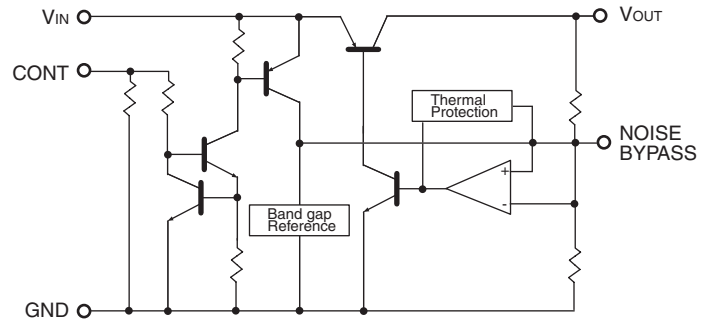


IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q431: NJM2370 (Regulated power supply)



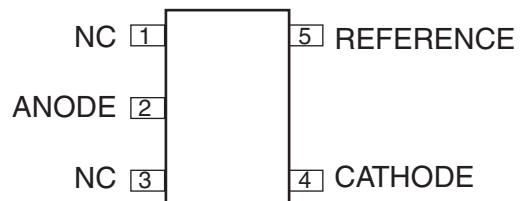
- PIN DESCRIPTION
1. Control
 2. GND
 3. Noise Bypass
 4. Vout
 5. Vin



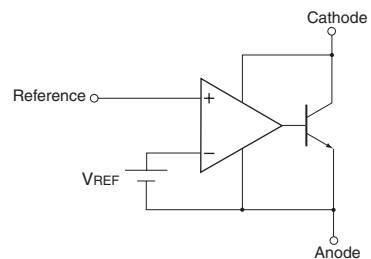
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2401: NJM2373AF (Adjustable High Precision Shunt Regulator)

Pin Configuration



Block Diagram

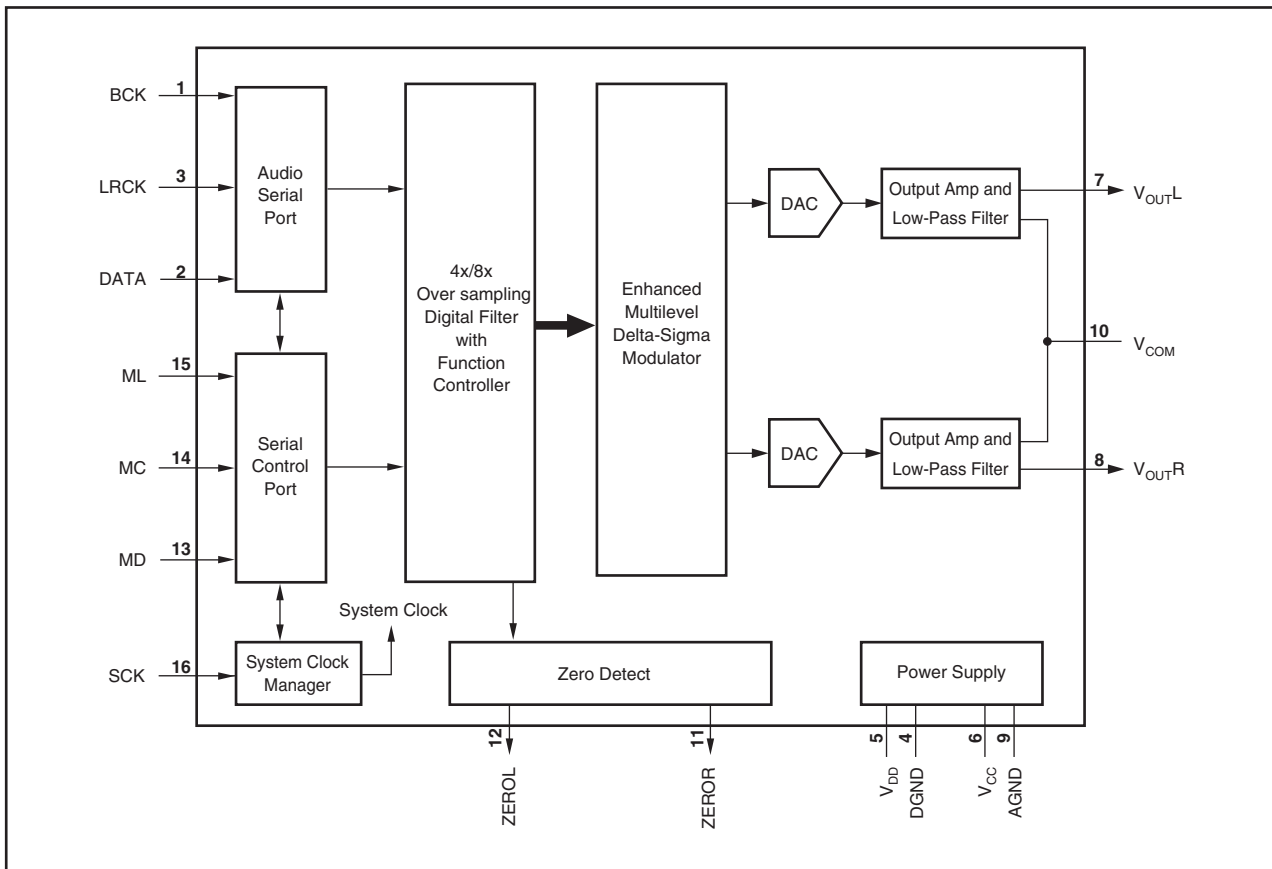


IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

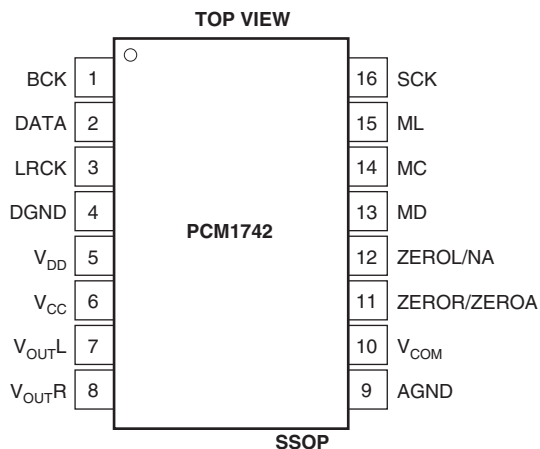
Q401: PCM1742KE DIGITAL-TO-ANALOG CONVERTER

24-Bit, 192kHz Sampling
Enhanced Multilevel, Delta-Sigma, Audio

BLOCK DIAGRAM



PIN CONFIGURATION



PIN ASSIGNMENTS

PIN	NAME	TYPE	FUNCTION
1	BCK	IN	Audio Data Bit Clock Input. ⁽¹⁾
2	DATA	IN	Audio Data Digital Input. ⁽¹⁾
3	LRCK	IN	L-Channel and R-Channel Audio Data Latch Enable Input. ⁽¹⁾
4	DGND	-	Digital Ground
5	V _{DD}	-	Digital Power Supply, +3.3V
6	V _{CC}	-	Analog Power Supply, +5V
7	V _{OUTL}	OUT	Analog Output for L-Channel.
8	V _{OUTR}	OUT	Analog Output for R-Channel.
9	AGND	-	Analog Ground
10	V _{COM}	-	Common Voltage Decoupling.
11	ZEROR/ ZEROA	OUT	Zero Flag Output for R-Channel/Zero Flag Output for L/R-Channel.
12	ZEROL/NA	OUT	Zero Flag Output for L-Channel/No Assign.
13	MD	IN	Mode Control Data Input. ⁽²⁾
14	MC	IN	Mode Control Clock Input. ⁽²⁾
15	ML	IN	Mode Control Latch Input. ⁽²⁾
16	SCK	IN	System Clock Input.

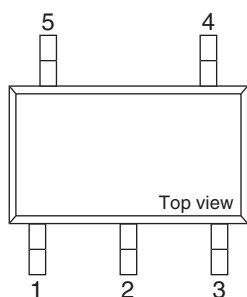
NOTES: (1) Schmitt-trigger input, 5V tolerant. (2) Schmitt-trigger with internal pull-down, 5V tolerant.

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2002: S-80127CNMC-JKM VOLTAGE DETECTOR (12.7V N-ch open drain, Active L: out)

Q702: S-80130CLMC-JKM VOLTAGE DETECTOR (13.0V CMOS, Active L: out)

PIN CONFIGURATION

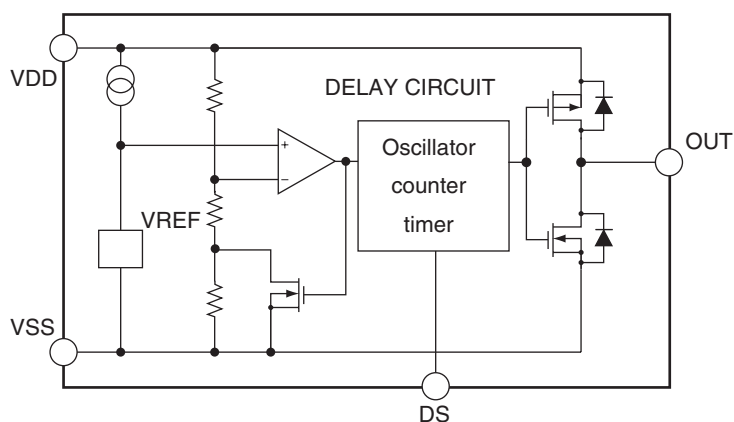


PIN DESCRIPTION

No.	Symbol	Description
1	DS	ON/OFF switch for delay time
2	VSS	GND
3	NC ^{*1}	Non-connection
4	OUT	Voltage detection output pin
5	VDD	Voltage input pin

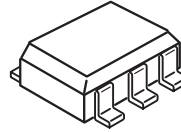
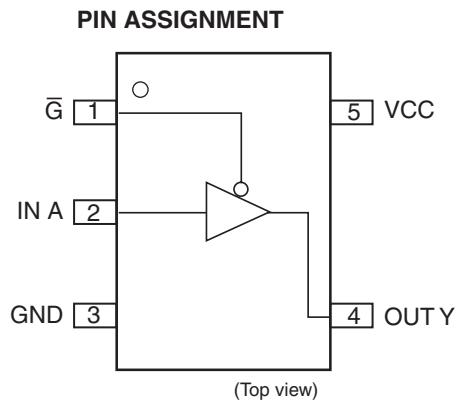
*1. NC pin is electrically open.

BLOCK DIAGRAM



IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2502: TC7SZ125FU (BUS BUFFER 3-STAGE OUTPUT)



Truth table

INPUT		OUTPUT
A	G	Y
X	H	Z
L	L	L
H	L	H

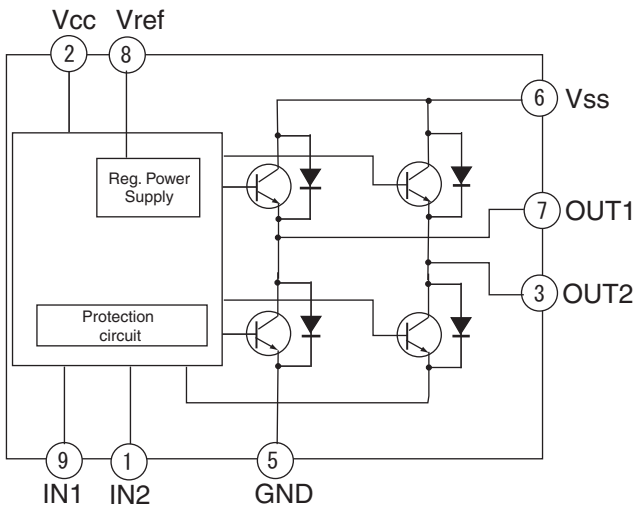
X: Don't care

Z: High impedance

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q704, Q705: TA7291S (MOTOR DRIVER)

Block diagram



Description

INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

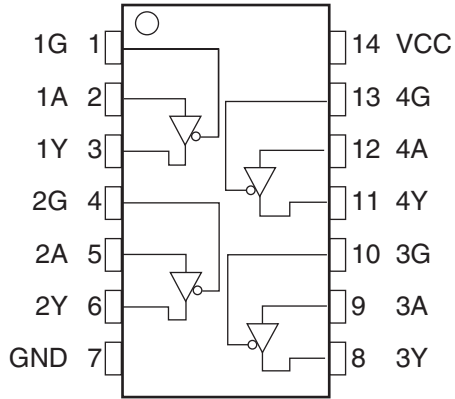
CW : Clockwise direction

CCW : Counter clockwise direction

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2501: TC74VHCT125AF QUAD BUS BUFFER

Pin Assignment



Truth Table

INPUTS		OUTPUTS
\bar{G}	A	Y
H	X	Z
L	L	L
L	H	H

X: Don't Care

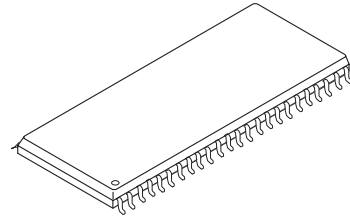
Z: High Impedance

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

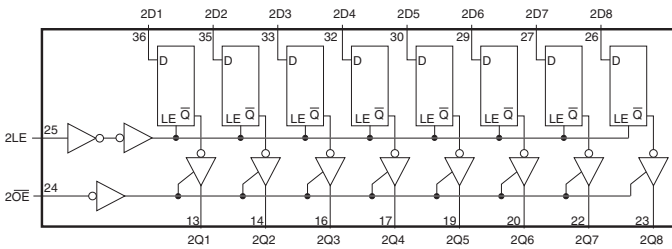
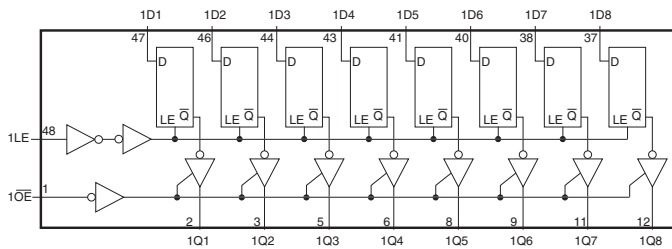
Q2301: TC74VCX162373FT 16-BIT D-TYPE LATCH

PIN ASSIGNMENT

1OE	1	48	1LE
1Q1	2	47	1D1
1Q2	3	46	1D2
GND	4	45	GND
1Q3	5	44	1D3
1Q4	6	43	1D4
VCC	7	42	VCC
1Q5	8	41	1D5
1Q6	9	40	1D6
GND	10	39	GND
1Q7	11	38	1D7
1Q8	12	37	1D8
2Q1	13	36	2D1
2Q2	14	35	2D2
GND	15	34	GND
2Q3	16	33	2D3
2Q4	17	32	2D4
VCC	18	31	VCC
2Q5	19	30	2D5
2Q6	20	29	2D6
GND	21	28	GND
2Q7	22	27	2D7
2Q8	23	26	2D8
2OE	24	25	2LE



SYSTEM DIAGRAM



Truth Table

Inputs			Outputs
1OE	1LE	1D1-1D8	1Q1-1Q8
H	X	X	Z
L	L	X	Qn
L	H	L	L
L	H	H	H

Inputs			Outputs
2OE	2LE	2D1-2D8	2Q1-2Q8
H	X	X	Z
L	L	X	Qn
L	H	L	L
L	H	H	H

X: Don't care

Z: High impedance

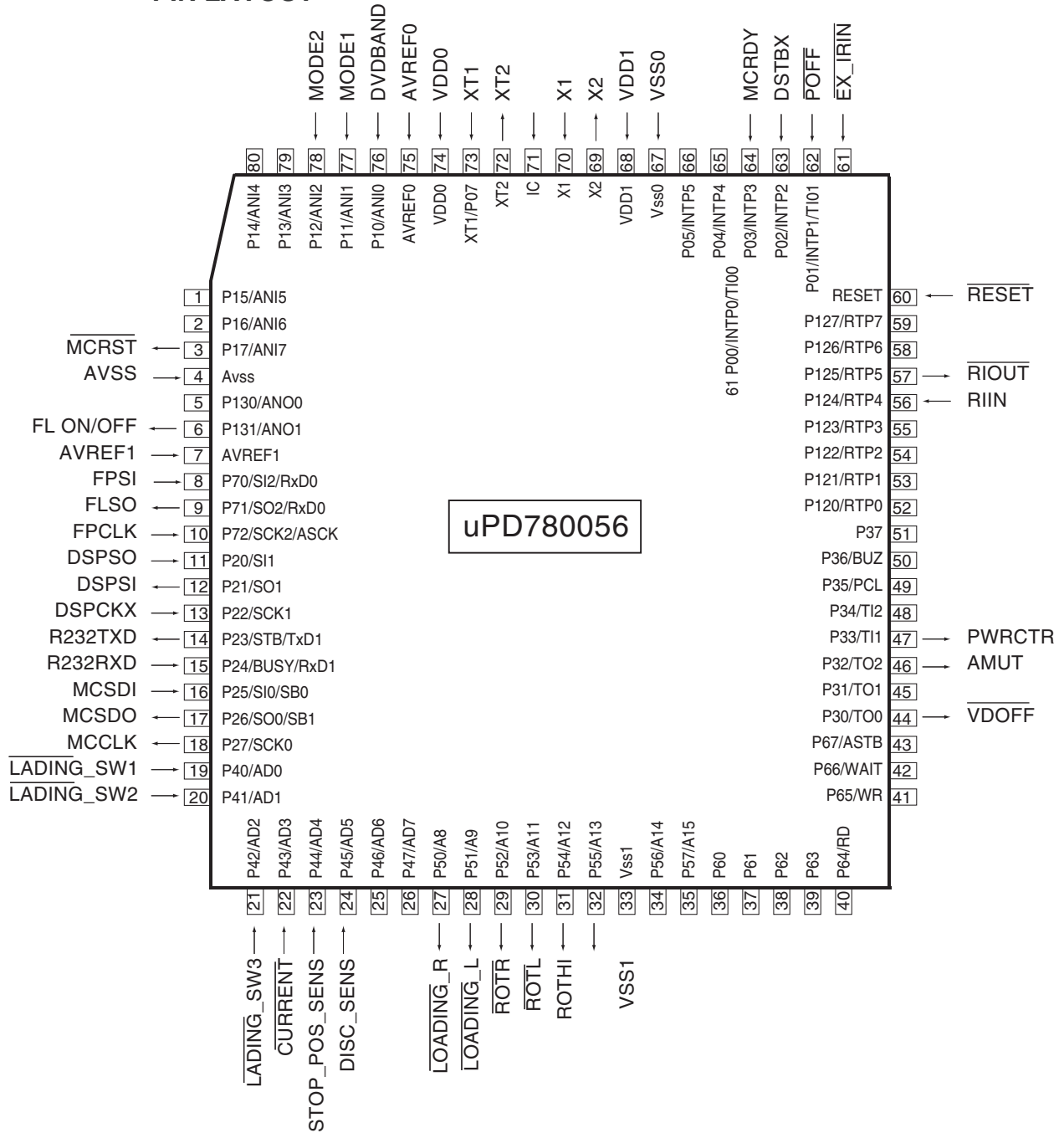
Qn: Q output are latched at the time

when the LE input is taken to a low logic level.

MICROPROCESSOR TERMINAL DESCRIPTION-1

Q701: uPD780056

PIN LAYOUT



MICROPROCESSOR TERMINAL DESCRIPTION-2

PIN NO.	Sign	Functional name	I/O	Description
1	P15/ANI5			
2	P16/ANI6			
3	P17/ANI7	$\overline{\text{MCRST}}$	O	Reset output pin for sub microprocessor.
4	Avss	AVSS	I	To connect VSS.
5	P130/ANO0			
6	P131/ANO1	FL ON/OFF	O	Power ON/ OFF pin of FL tube.
7	AVREF1	AVREF1	I	Reference voltage input pin for D/A converter.
8	P70/SI2/RxD0	FPSI	I	Serial data input pin for Flash processor.
9	P71/SO2/RxD0	FLSO	O	Serial data output pin for Flash processor.
10	P72/SCK2/ASCK	FPCLK	I	Serial clock input pin for Flash processor.
11	P20/SI1	DSPSO	I	Serial communication port (SO).
12	P21/SO1	DSPSI	O	Serial communication port (SI).
13	P22/SCK1	DSPCKX	I	Serial communication port (CLK).
14	P23/STB/TxD1	R232TXD	O	TXD output pin. Serial data output pin at re-writing of the flash data.
15	P24/BUSY/RxD1	R232RXD	I	RXD input pin. Serial data input pin at re-writing of the flash data.
16	P25/SI0/SB0	MCSDI	I	Data input pin of sub microprocessor.
17	P26/SO0/SB1	MCSDO	O	Data output pin of sub microprocessor.
18	P27/SCK0	MCCLK	O	Serial clock output data pin.
19	P40/AD0	$\overline{\text{LADING_SW1}}$	I	Detecting pin of loading switch-1.
20	P41/AD1	$\overline{\text{LADING_SW2}}$	I	Detecting pin of loading switch-2.
21	P42/AD2	LADING_SW3	I	Detecting pin of loading switch-3.
22	P43/AD3	CURRENT	I	Detecting current pin of loading (tray) motor.
23	P44/AD4	STOP_POS_SENS	I	The input terminal of the detection sensor of a roulette stop position.
24	P45/AD5	DISC_SENS	I	Disk detection sensor input terminal.
25	P46/AD6			
26	P47/AD7			
27	P50/A8	$\overline{\text{LOADING_R}}$	O	Loading tray motor control terminal. L= right-handed rotation
28	P51/A9	$\overline{\text{LOADING_L}}$	O	Loading tray motor control terminal. L= left-handed rotation
29	P52/A10	$\overline{\text{ROTR}}$	O	Roulette motor control terminal. L= clockwise rotation.
30	P53/A11	$\overline{\text{ROTL}}$	O	Roulette motor control terminal. L= counterclockwise rotation.
31	P54/A12	ROTHI	O	Roulette motor speed control terminal.
32	P55/A13		O	
33	Vss1	VSS1	O	To connect to GND.
34	P56/A14			
35	P57/A15			
36	P60			Not used. To connect to GND
37	P61			Not used. To connect to GND
38	P62			Not used. To connect to GND
39	P63			Not used. To connect to GND

MICROPROCESSOR TERMINAL DESCRIPTION-3

PIN NO.	Sign	Functional name	I/O	Description
40	P64/RD			Not used. To connect to GND
41	P65/WR			Not used. To connect to GND
42	P66/WAIT			Not used. To connect to GND
43	P67/ASTB			Not used. To connect to GND
44	P30/TO0	$\overline{\text{VDOFF}}$	O	Video off signal output pin.
45	P31/TO1			
46	P32/TO2	AMUT	O	Analog mute signal output pin.
47	P33/TI1	PWRCTR	O	Power control output pin. When power ON is "H".
48	P34/TI2			Not used. To connect to GND
49	P35/PCL			Not used. To connect to GND
50	P36/BUZ			Not used. To connect to GND
51	P37			Not used. To connect to GND
52	P120/RTP0			Not used. To connect to GND
53	P121/RTP1			Not used. To connect to GND
54	P122/RTP2			Not used. To connect to GND
55	P123/RTP3			Not used. To connect to GND
56	P124/RTP4	$\overline{\text{RIIN}}$	I	RI system code data input pin.
57	P125/RTP5	$\overline{\text{RIOUT}}$	O	RI system code data output pin.
58	P126/RTP6			Not used. To connect to GND
59	P127/RTP7			Not used. To connect to GND
60	RESET	$\overline{\text{RESET}}$	I	Reset pin of microprocessor.
61	P00/INTP0/TI00	$\overline{\text{EX_IRIN}}$	I	Remote control signal input pin from multi room.
62	P01/INTP1/TI01	$\overline{\text{POFF}}$	I	Power failure detection pin.
63	P02/INTP2	DSTBX	I	Serial data output pin (main STB signal).
64	P03/INTP3	MCRDY	I	Ready data detecting input pin of sub microprocessor.
65	P04/INTP4			Not used. To connect to GND
66	P05/INTP5			Not used. To connect to GND
67	Vss0	VSS0	I	To connect to GND
68	VDD1	VDD1	I	To connect to GND
69	X2	X2	O	The crystal (5MHz) connection terminal for a main system clock oscillation.
70	X1	X1	I	The crystal (5MHz) connection terminal for a main system clock oscillation.
71	IC		I	To connect to GND. Internal connection pin.
72	XT2	XT2	O	Not used. Use to clock oscillator connection for sub microprocessor.
73	XT1/P07	XT1	I	Not used. To connect to VDD
74	VDD0	VDD0	I	To connect to +5V (power supply).
75	AVREF0	AVREF0	I	The reference voltage input pin of a A/D converter.
76	P10/ANI0	DVDBAND	I	The destination judging terminal for DVD.
77	P11/ANI1	MODE1	I	Mode select input pin 1.
78	P12/ANI2	MODE2	I	Mode select input pin 2.
79	P13/ANI3			Not used. To connect to GND
80	P14/ANI4			Not used. To connect to GND

PART REPLACEMENT-1

1. CABINET REPLACEMENT

1-1. Top cover and front panel

1-1-1. Remove the top cover. (six screws)

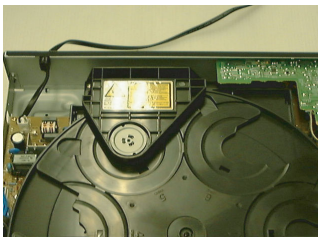
1-1-2. Remove the front panel assy. Remove the FFC (P704) and three screws.



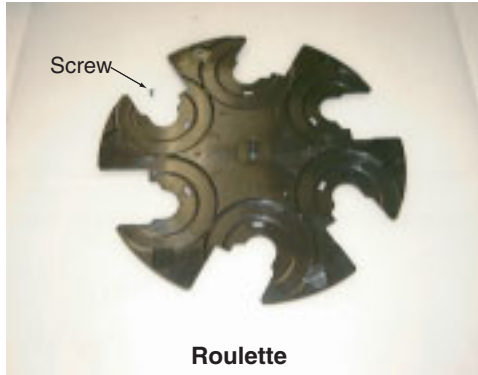
1-2. Camper stay and Roulette

1-2-1. Remove the three screws and clamper assy. (1)

1-2-2. Remove one screw and roulette. (2)



(1)



Roulette

(2)



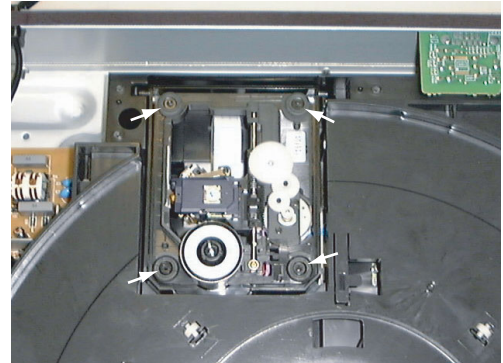
1-3. Tray panel and Mechanism assy

<Mechanism assy>

1-3-1. Remove four screws. (1)

1-3-2. Remove the mechanism assy.

1-3-3. Remove the FFC. (2)



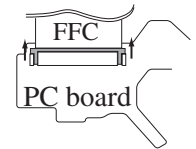
(1)



(2)

Bottom side of mechanism

Slide a holder direction the allow and remove the FFC.



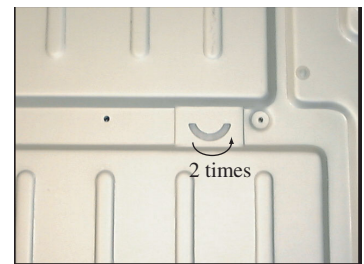
<Tray panel>

Removal

1-4-1. Slide the slider on the bottom chassis. (1)

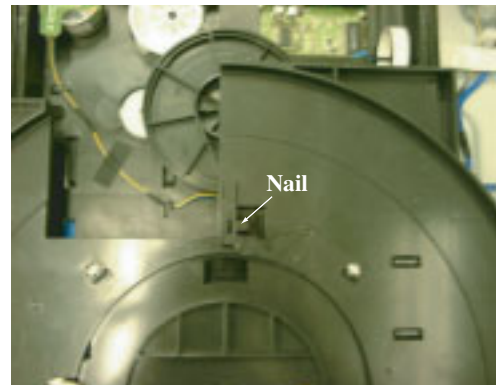
1-4-2. Eject the tray panel.

1-4-3. Remove one FFC (P707) and draw out the tray while pulling a nail. (2)



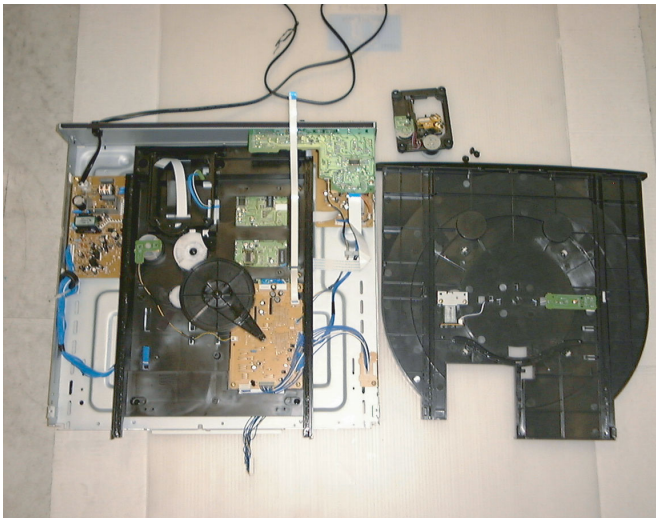
(1)

Bottom side view



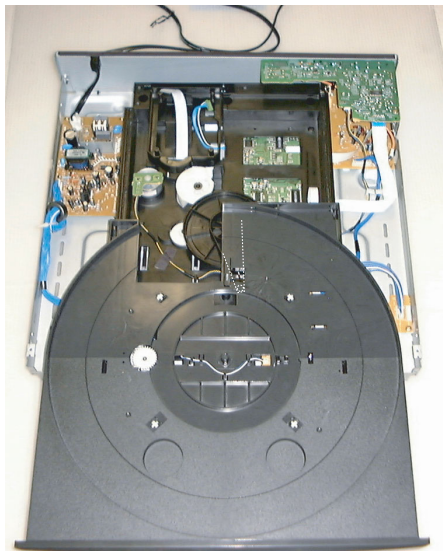
(2)

PART REPLACEMENT-2

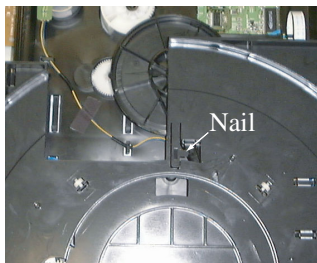


Tray panel <Mounting>

- 1-4-4. Insert the tray panel.
- 1-4-5. Set the FFC (P707) to mechanism control PC board assy.
- 1-4-6. The pin of main gear and fitting the position of the slot on the tray.



- 1-4-7. Pull up the nail on the tray panel and insert the tray.

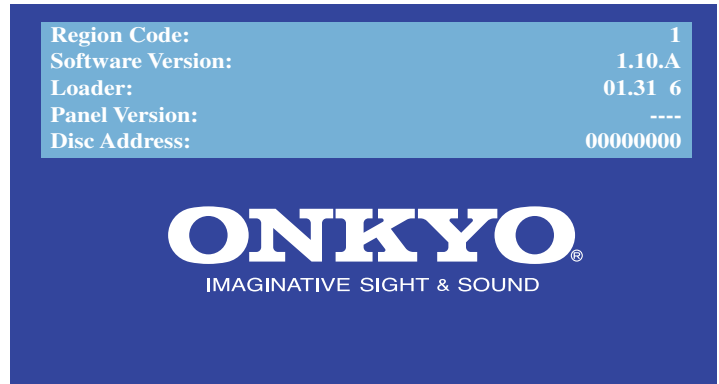
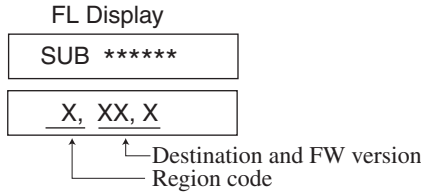


UPDATE FIRMWARE-1

TV monitor

1 Check the version of firmware

1. Press the "STOP" key, while the set press the "DISPLAY" key in state of No DISC condition.
2. Press the "DISPLAY" key.
Displayed on FL tube.



3. Press the "STANDBY" key and finish the FW check mode.

2 Writing the firmware in CD-R

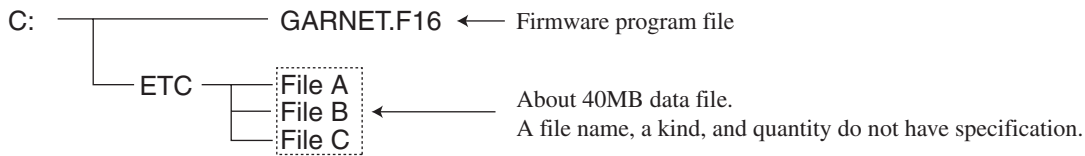
Prepare the required data file.

1. BANK30.ROM
"BANK30.ROM" is the program file for firmware.
2. Dummy data file. (About 40MB)

NOTE: Every version and destination has same file name.

Make the file holder

Make the holder on the personal computer and make the required file the following tree structures.



- NOTE: 1. Writing format is ISO9660 style.
2. Finalize are single session.

3 Check operation of unit

Check that the compact disc can be play normally.
If compact disc cannot be play normally, cannot do the update firmware.

4 Connect the display to the unit

To connect "VIDEO IN" terminal of TV and "VIDEO" terminal of the unit.

5 Update firmware

1. Press the "OPEN/CLOSE" button of the unit and tray is open.
2. Set the CD-R on disc-I bay.



It is displayed on TV as "WRITING." → "DONE"
After writing is completed, the tray opens automatically.

3. Disc is taken out.
After Tray has opened, the "DISPLAY" button is pushed and push the "STOP" button.
Press "STANDBY/ON" button.

6 Check the version of firmware

Refer to item 1

UPDATE FIRMWARE-2

Exchange of DVD main board (NADG-7807)

1 Update firmware

Check the version of present firmware.

DVD main board is not necessarily in the newest version.

2 Setting the region code

[Preparation]

Remote controller: RC-484M Part No. 24140484

❶ Press the "DVD" key and "2" key of the remote controller.

❷ Press the "RETURN" key.

❸ Press the number key of region code.

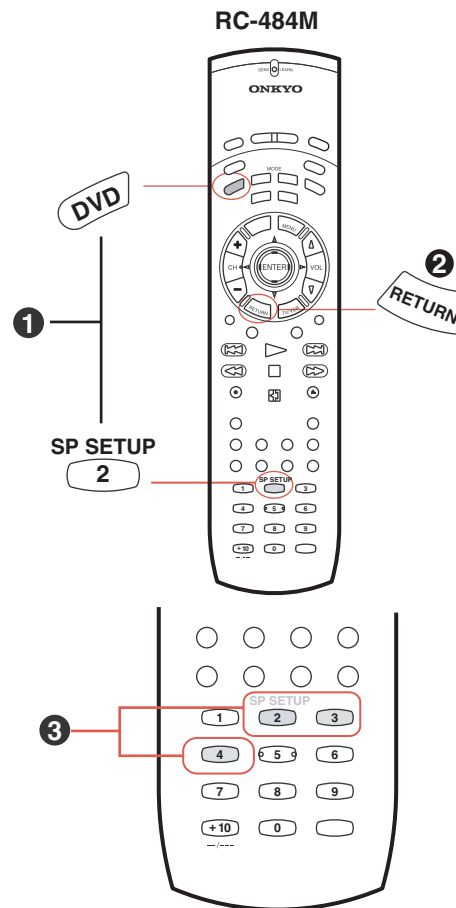
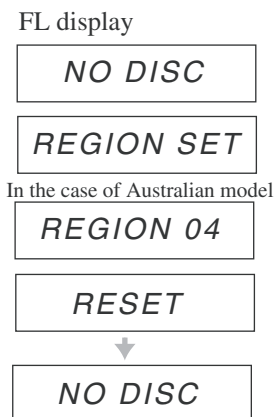
CDD1N type (U.S.A. model)

Region-1 Press the 1 key

CPA4P type (Australian model)

Region-4 Press the 4 key

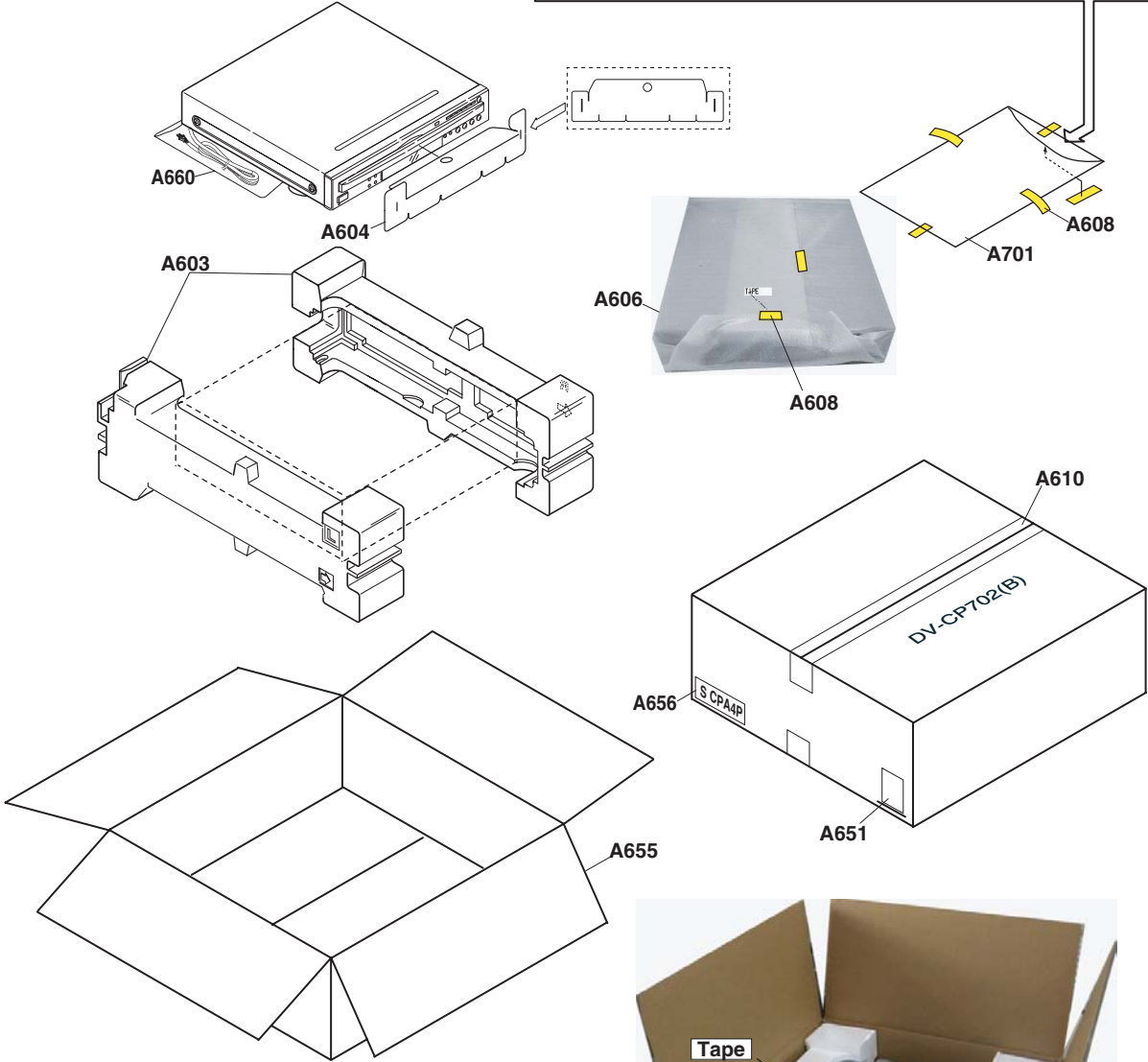
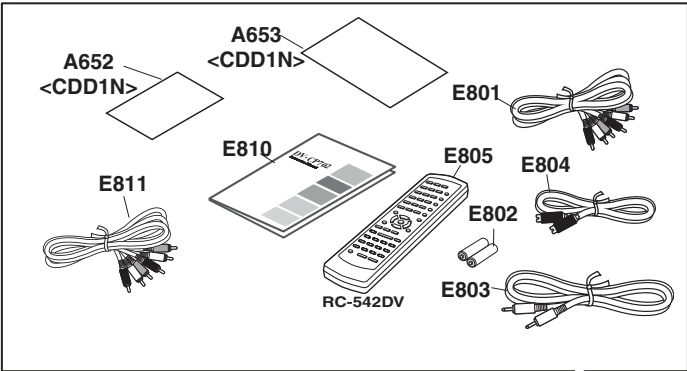
Press the STOP button of unit.



3 Check the version of the firmware and region code

Refer to procedure **step 1**

PACKING VIEW



U1 : DVD MAIN CIRCUIT PC BOARD

CIRCUIT NO.	PART NAME	PART NO.	DESCRIPTION	REMARK
C1001	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1002	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1003	C-CERA C	15CH-220J-P-AC	CC725CH1H-220J1	
C1004	C-CERA C	15CH-220J-P-AC	CC725CH1H-220J1	
C1005	C-CERA C	15CH-220J-P-AC	CC725CH1H-220J1	
C1006	C-CERA C	15CH-220J-P-AC	CC725CH1H-220J1	
C1007	C-CERA C	150F-222K-P-AC	CK725B1H-222K1	
C1008	C-CERA C	150F-222K-P-AC	CK725B1H-222K1	
C1009	C-CERA C	150F-222K-P-AC	CK725B1H-222K1	
C1010	C-CERA C	150F-222K-P-AC	CK725B1H-222K1	
C1011	C-CERA C	15CH-331J-P-AC	CC725CH1H-331J1	
C1012	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1013	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M	
C1014	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1015	C-CERA C	150F-333K-P-AC	CK725B1H-333K1	
C1016	C-CERA C	150F-333K-P-AC	CK725B1H-333K1	
C1017	C-CERA C	15CH-151J-P-AC	CC725CH1H-151J1	
C1018	C-CERA C	150C-474K-P-AC	CK725B1A-474K1	
C1019	C-CERA C	150C-474K-P-AC	CK725B1A-474K1	
C1020	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1021	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1022	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M	
C1023	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1024	C-CERA C	150F-473K-P-AC	CK725B1H-473K1	
C1025	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1026	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C1027	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1	
C1028	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1029	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1030	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1031	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1032	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M	
C1033	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1034	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1035	C-CERA C	150F-103K-P-AC	CK725B1H-103K1	
C1036	C-CERA C	15CH-100J-P-AC	CC725CH1H-100D1	
C1037	C-CERA C	15CH-100J-P-AC	CC725CH1H-100D1	
C1038	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1039	CHIP ELECT C	157B-476M-3-JJI	CEWX6.3V-47M	
C1040	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1	
C1041	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C1042	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C1043	CHIP ELECT C	157B-476M-3-JJI	CEWX6.3V-47M	
C1044	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1	
C1045	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C1046	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C1047	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M	
C1049	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1050	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C1051	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1052	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M	
C1053	CHIP ELECT C	157F-105M-3-HJI	CEWX50V-1M	
C1101	C-CERA C	15CH-221J-P-AC	CC725CH1H-221J1	
C1102	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1	
C1103	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1	
C1104	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1105	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1106	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M	
C1107	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1108	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1109	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M	
C1110	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1111	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C1112	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C1113	C-CERA C	150F-223K-P-AC	CK725B1H-223K1	
C1114	C-CERA C	150F-223K-P-AC	CK725B1H-223K1	
C1115	C-CERA C	150F-473K-P-AC	CK725B1H-473K1	
C1116	C-CERA C	150F-223K-P-AC	CK725B1H-223K1	

C1117	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1201	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1202	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1203	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1206	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1207	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1208	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1209	C-CERA C	150F-223K-P-AC	CK725B1H-223K1	
C1210	C-CERA C	15CH-151J-P-AC	CC725CH1H-151J1	
C1211	C-CERA C	150F-223K-P-AC	CK725B1H-223K1	
C1212	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1213	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1	
C1214	C-CERA C	150F-223K-P-AC	CK725B1H-223K1	
C1215	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1	
C1216	C-CERA C	150D-154K-P-AC	CK725B1A-154K1	
C1217	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1218	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1219	C-CERA C	15CH-331J-P-AC	CC725CH1H-331J1	
C1220	C-CERA C	15CH-331J-P-AC	CC725CH1H-331J1	
C1221	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1222	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1223	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1224	C-CERA C	150F-473K-P-AC	CK725B1H-473K1	
C1225	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1226	C-CERA C	150F-103K-P-AC	CK725B1H-103K1	
C1227	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1228	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1229	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1230	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1232	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1233	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1234	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M	
C1235	CHIP ELECT C	157B-226M-3-HJI	CEWX6.3V-22M	
C1236	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C1237	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C1238	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C1239	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1251	C-CERA C	15CH-471J-P-AC	CC725CH1H-471J1	
C1252	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1253	C-CERA C	15CH-471J-P-AC	CC725CH1H-471J1	
C1254	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1255	C-CERA C	15CH-471J-P-AC	CC725CH1H-471J1	
C1256	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1257	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2001	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2002	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2003	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2004	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2005	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2006	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2007	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2008	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2009	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2010	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2011	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2012	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2013	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2014	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2015	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2016	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2017	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2018	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2019	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2020	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2021	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2022	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2023	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2024	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1	
C2025	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C2026	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2027	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2028	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	

C2029	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2301	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C2302	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C2303	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C2304	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C2305	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1
C2306	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2307	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2308	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2309	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2310	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2311	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2312	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2313	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2314	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2315	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2316	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M
C2317	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2318	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2401	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2402	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2403	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2405	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2406	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2407	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2408	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2409	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2410	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2411	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2412	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2413	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2414	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2415	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M
C2416	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1
C2417	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1
C2418	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2419	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2501	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C2502	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C2601	CHIP ELECT C	157B-226M-3-HJI	CEWX6.3V-22M
C2602	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2603	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2604	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2605	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1
C2606	C-CERA C	15CH-120J-P-AC	CC725CH1H-120J1
C2608	C-CERA C	15CH-120J-P-AC	CC725CH1H-120J1
C2901	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2902	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2903	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2904	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2905	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2906	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M
C2907	CHIP ELECT C	157A-227M-3-MJI	CEWX4V-220M
C2951	C-CERA C	15CH-560J-P-AC	CC725CH1H-560J1
L1001	CHOKE COIL	1803-0063-0	NCH-1479
L1002	CHOKE COIL	1803-0063-0	NCH-1479
L1201	CHOKE COIL	1803-0064-0	NCH-1471
L1202	CHOKE COIL	1803-0064-0	NCH-1471
L1203	CHOKE COIL	1803-0064-0	NCH-1471
L1204	CHOKE COIL	1803-0064-0	NCH-1471
L1251	CHOKE COIL	1803-0064-0	NCH-1471
L2001	CHOKE COIL	1803-0064-0	NCH-1471
L2002	CHOKE COIL	1803-0064-0	NCH-1471
L2301	CHOKE COIL	1803-0064-0	NCH-1471
L2302	CHOKE COIL	1803-0064-0	NCH-1471
L2401	CHOKE COIL	1803-0064-0	NCH-1471
L2404	CHOKE COIL	1803-0064-0	NCH-1471
L2601	CHOKE COIL	1803-0074-0	BLM21P221SG
L2602	CHOKE COIL	1803-0074-0	BLM21P221SG
L2901	CHOKE COIL	1803-0064-0	NCH-1471
L2902	CHOKE COIL	1803-0064-0	NCH-1471
L2903	CHOKE COIL	1803-0064-0	NCH-1471

L2904	CHOKE COIL		1803-0064-0	NCH-1471	
P1001	SOCKET		2101-1414-0	NSCT-26P2671	PU-Main
P1101	PLUG		2101-1410-0	NPLG-6P932	TRV-Main
P2001B	SOCKET		2101-1413-0	NSCT-14P2684	DAC2ch-Main
P2401B	SOCKET		2101-1412-0	NSCT-15P2685	Video-Main
P2501A	PLUG		2101-3014-0	L2003P07S0T	SubMicom-Main
P2901A	PLUG		2101-1410-0	NPLG-6P932	Power
Q1001	IC		3131-9990-0	CXD1881BR	DVD ANALOG FRONTEND
Q1002	IC		3132-0010-0	NJM2115V	
Q1003	TR		4853-0190-3	2SK3019	
Q1004	TR		4853-0190-3	2SK3019	
Q1005	TR		4853-0190-3	2SK3019	
Q1006	TR		4851-132R-3	2SB1132	
Q1007	TR		4851-132R-3	2SB1132	
Q1101	IC		3132-0020-0	FAN8042	
Q1102	IC		3132-0030-0	BA4510FV	
Q1201	IC		3132-0040-0	CXD1885Q	
Q1251	IC		3132-0050-0	IC41LV16100-50T	EDO-DRAM
Q1251 or	IC		3132-0050-0	IC41LV16100-50T	EDO-DRAM
C Q2001	IC		3132-0060-0	M65783AFP	<CPA4P>
Q2002	IC		3132-0070-0	S-80127CNMC-JKM-T2	
Q2003	IC		3132-0290-0	IS24C08-3Z	E2PROM
Q2301	IC		3132-0090-0	TC74VCX162373FT	
C Q2302	IC		3132-0100-0	MX29LV160ABTC-90	Need PreWriting <CPA4P>
C Q2302 or	IC		3132-0860-0	MX29LV160ABTC-70	Need PreWriting <CPA4P>
Q2303	IC		3132-0110-0	IC42S16400-7T	SDRAM
Q2303 or	IC		3132-0110-0	IC42S16400-7T	SDRAM
Q2401	IC		3132-0120-0	NJM2373AF	
Q2402	TR		4851-774R-3	2SA1774	
Q2403	TR		4851-774R-3	2SA1774	
Q2404	TR		4851-774R-3	2SA1774	
Q2405	TR		4851-774R-3	2SA1774	
Q2406	TR		4851-774R-3	2SA1774	
Q2501	IC		3132-0130-0	TC74VHCT125AFT	
Q2502	IC		3132-0140-0	TC7SZ125FU	
Q2601	IC		3132-0150-0	BU2288FV	CLOCKGENERATOR
Q2901	IC(REGULATOR)		3132-0160-0	MPC29M33T	
Q2902	IC(REGURATOR)		3132-0170-0	MPC2918T	
Q2903	IC(REGURATOR)		3132-0170-0	MPC2918T	
Q2904	IC(REGULATOR)		3132-0160-0	MPC29M33T	
R1001	C-R NET		8911-0015-0	RM4KJ152X04	
R1002	C-R NET		8911-0023-0	RM4KJ000X04	
R1003	C-CARBON R		4723-123A-P-R	RN72K1J-123FE	
R1004	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1005	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R1006	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R1007	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R1009	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1010	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R1011	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R1012	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R1014	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1015	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R1016	C-CARBON R		4723-330J-P-R	RN72K1J-330JE	
R1017	C-CARBON R		4723-330J-P-R	RN72K1J-330JE	
R1018	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R1019	C-CARBON R		4723-330J-P-R	RN72K1J-330JE	
R1020	C-CARBON R		4723-330J-P-R	RN72K1J-330JE	
R1021	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1022	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R1023	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1027	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R1028	C-CARBON R		4723-392J-P-R	RN72K1J-392JE	
R1029	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R1101	C-CARBON R		4723-563J-P-R	RN72K1J-563JE	
R1102	C-CARBON R		4723-153J-P-R	RN72K1J-153JE	
R1103	C-CARBON R		4723-563J-P-R	RN72K1J-563JE	
R1104	C-CARBON R		4723-333J-P-R	RN72K1J-333JE	
R1105	C-CARBON R		4723-563J-P-R	RN72K1J-563JE	
R1106	C-CARBON R		4723-333J-P-R	RN72K1J-333JE	
R1107	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1108	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	

R1109	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1110	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1111	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1112	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1113	C-CARBON R	4723-333J-P-R	RN72K1J-333JE
R1114	C-CARBON R	4723-752J-P-R	RN72K1J-752JE
R1115	C-CARBON R	4723-333J-P-R	RN72K1J-333JE
R1116	C-CARBON R	4723-752J-P-R	RN72K1J-752JE
R1117	C-CARBON R	4723-103A-P-R	RN72K1J-103FE
R1118	C-CARBON R	4723-103A-P-R	RN72K1J-103FE
R1119	C-CARBON R	4723-223J-P-R	RN72K1J-223JE
R1120	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1121	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1122	C-CARBON R	4723-104J-P-R	RN72K1J-104JE
R1123	C-CARBON R	4723-223J-P-R	RN72K1J-223JE
R1124	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1125	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1126	C-CARBON R	4723-104J-P-R	RN72K1J-104JE
R1127	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1128	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1202	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1205	C-R NET	8911-0016-0	RM4KJ101X04
R1206	C-R NET	8911-0016-0	RM4KJ101X04
R1207	C-CARBON R	4723-181J-P-R	RN72K1J-181JE
R1208	C-R NET	8911-0016-0	RM4KJ101X04
R1209	C-R NET	8911-0017-0	RM4KJ330X04
R1210	C-R NET	8911-0016-0	RM4KJ101X04
R1211	C-R NET	8911-0016-0	RM4KJ101X04
R1212	C-R NET	8911-0018-0	RM4KJ181X04
R1213	C-R NET	8911-0019-0	RM4KJ103X04
R1214	C-CARBON R	4723-473J-P-R	RN72K1J-473JE
R1215	C-CARBON R	4723-473J-P-R	RN72K1J-473JE
R1216	C-CARBON R	4723-154J-P-R	RN72K1J-154JE
R1217	C-CARBON R	4723-471J-P-R	RN72K1J-471JE
R1218	C-CARBON R	4723-683J-P-R	RN72K1J-683JE
R1219	C-CARBON R	4723-473J-P-R	RN72K1J-473JE
R1220	C-CARBON R	4723-104J-P-R	RN72K1J-104JE
R1221	C-CARBON R	4723-182J-P-R	RN72K1J-182JE
R1222	C-CARBON R	4723-182J-P-R	RN72K1J-182JE
R1223	C-CARBON R	4723-223J-P-R	RN72K1J-223JE
R1224	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1225	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1226	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1227	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1228	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1229	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1230	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1231	C-CARBON R	4723-333J-P-R	RN72K1J-333JE
R1232	C-CARBON R	4723-152J-P-R	RN72K1J-152JE
R1233	C-CARBON R	4723-333J-P-R	RN72K1J-333JE
R1234	C-R NET	8911-0016-0	RM4KJ101X04
R1235	C-R NET	8911-0016-0	RM4KJ101X04
R1236	C-R NET	8911-0016-0	RM4KJ101X04
R1237	C-R NET	8911-0016-0	RM4KJ101X04
R1238	C-R NET	8911-0016-0	RM4KJ101X04
R1240	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R1241	C-R NET	8911-0016-0	RM4KJ101X04
R1242	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1243	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1244	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R1251	C-R NET	8911-0016-0	RM4KJ101X04
R1252	C-R NET	8911-0016-0	RM4KJ101X04
R1253	C-R NET	8911-0016-0	RM4KJ101X04
R1254	C-R NET	8911-0016-0	RM4KJ101X04
R1291	C-R NET	8911-0020-0	RM6KJ103X08
R1292	C-R NET	8911-0020-0	RM6KJ103X08
R1293	C-R NET	8911-0020-0	RM6KJ103X08
R2001	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2002	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2003	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2004	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2005	C-CARBON R	4723-470J-P-R	RN72K1J-470JE

R2006	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2007	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2008	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2009	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2010	C-CARBON R	4723-220J-P-R	RN72K1J-220JE
R2011	C-CARBON R	4723-220J-P-R	RN72K1J-220JE
R2015	C-CARBON R	4723-220J-P-R	RN72K1J-220JE
R2016	C-CARBON R	4723-220J-P-R	RN72K1J-220JE
R2017	C-CARBON R	4723-220J-P-R	RN72K1J-220JE
R2018	C-CARBON R	4723-220J-P-R	RN72K1J-220JE
R2019	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R2020	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R2021	C-CARBON R	4723-100J-P-R	RN72K1J-100JE
R2022	C-R NET	8911-0021-0	RM4KJ470X04
R2023	C-R NET	8911-0021-0	RM4KJ470X04
R2024	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2025	C-R NET	8911-0021-0	RM4KJ470X04
R2026	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R2027	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R2028	C-CARBON R	4723-222J-P-R	RN72K1J-222JE
R2029	C-CARBON R	4723-222J-P-R	RN72K1J-222JE
R2030	C-CARBON R	4723-100J-P-R	RN72K1J-100JE
R2031	C-CARBON R	4723-100J-P-R	RN72K1J-100JE
R2032	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2033	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2034	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2035	C-R NET	8911-0021-0	RM4KJ470X04
R2036	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R2037	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R2038	C-R NET	8911-0022-0	RM4KJ150X04
R2039	C-R NET	8911-0022-0	RM4KJ150X04
R2040	C-R NET	8911-0022-0	RM4KJ150X04
R2041	C-R NET	8911-0022-0	RM4KJ150X04
R2042	C-R NET	8911-0022-0	RM4KJ150X04
R2043	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R2044	C-CARBON R	4723-102J-P-R	RN72K1J-102JE
R2045	C-CARBON R	4723-472J-P-R	RN72K1J-472JE
R2049	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R2050	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2051	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2052	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2053	C-CARBON R	4723-470J-P-R	RN72K1J-470JE
R2054	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R2055	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R2056	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R2057	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R2301	C-CARBON R	4723-102J-P-R	RN72K1J-102JE
R2302	C-CARBON R	4723-103J-P-R	RN72K1J-103JE
R2401	C-CARBON R	4723-220J-P-R	RN72K1J-220JE
R2402	C-CARBON R	4723-221J-P-R	RN72K1J-221JE
R2403	C-CARBON R	4723-000J-P-R	RN72K1J-000JE
R2405	C-CARBON R	4723-100J-P-R	RN72K1J-100JE
R2406	C-CARBON R	4723-271A-P-R	RN72K1J-271FE
R2407	C-CARBON R	4723-271A-P-R	RN72K1J-271FE
R2408	C-CARBON R	4723-332A-P-R	RN72K1J-332FE
R2410	C-CARBON R	4723-271A-P-R	RN72K1J-271FE
R2411	C-CARBON R	4723-271A-P-R	RN72K1J-271FE
R2412	C-CARBON R	4723-332A-P-R	RN72K1J-332FE
R2414	C-CARBON R	4723-102J-P-R	RN72K1J-102JE
R2415	C-CARBON R	4723-271A-P-R	RN72K1J-271FE
R2416	C-CARBON R	4723-152A-P-R	RN72K1J-152FE
R2417	C-CARBON R	4723-102J-P-R	RN72K1J-102JE
R2418	C-CARBON R	4723-271A-P-R	RN72K1J-271FE
R2419	C-CARBON R	4723-152A-P-R	RN72K1J-152FE
R2420	C-CARBON R	4723-102J-P-R	RN72K1J-102JE
R2421	C-CARBON R	4723-271A-P-R	RN72K1J-271FE
R2422	C-CARBON R	4723-152A-P-R	RN72K1J-152FE
R2423	C-CARBON R	4723-102J-P-R	RN72K1J-102JE
R2424	C-CARBON R	4723-271A-P-R	RN72K1J-271FE
R2425	C-CARBON R	4723-152A-P-R	RN72K1J-152FE
R2426	C-CARBON R	4723-102J-P-R	RN72K1J-102JE
R2427	C-CARBON R	4723-271A-P-R	RN72K1J-271FE

R2428	C-CARBON R		4723-152A-P-R	RN72K1J-152FE	
R2429	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R2430	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R2431	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R2501	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R2502	C-CARBON R		4723-220J-P-R	RN72K1J-220JE	
R2503	C-CARBON R		4723-220J-P-R	RN72K1J-220JE	
R2504	C-CARBON R		4723-220J-P-R	RN72K1J-220JE	
R2505	C-CARBON R		4723-220J-P-R	RN72K1J-220JE	
R2601	C-CARBON R		4723-561J-P-R	RN72K1J-561JE	
R2602	EMI FIL		1806-3705-0	BK1608TS431-T	
R2603	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R2604	EMI FIL		1806-3706-0	BK1608HM471-T	
R2605	EMI FIL		1806-3705-0	BK1608TS431-T	
R2608	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R2901	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R2902	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R2903	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R2954	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R2955	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
X2601	CRYSTAL		2300-2220-0	FCX-03-27MHz	

PRINTED CIRCUIT BOARD PARTS LIST-2

DV-CP702

U3 : Front disp. PC board assy **NADIS-7808-1A <CDD1N>, NADIS-7808-1B <CPA4P>**
U4 : Mecha. Control PC board assy **NADG-7809-1A <CDD1N>, NADG-7809-1B <CPA4P>**
U5 : Video output terminal PC board as **NAVD-7810-1A <CDD1N>, NAVD-7810-1B <CPA4P>**
U6 : Audio output terminal PC board as **NAAF-7811-1A <CDD1N>, NAAF-7811-1B <CPA4P>**
U7 : Disc select switch PC board assy **NASW-7812-1A <CDD1N>, NASW-7812-1B <CPA4P>**
U8 : Key operation PC board assy **NASW-7813-1A <CDD1N>, NASW-7813-1B <CPA4P>**
U9 : Standby switch PC board assy **NASW-7814-1A <CDD1N>, NASW-7814-1B <CPA4P>**
U10 : LED display PC board assy **NADIS-7815-1A <CDD1N>, NADIS-7815-1B <CPA4P>**
U11 : Roulette motor PC board assy **NAETC-7816-1A <CDD1N>, NAETC-7816-1B <CPA4P>**
U12 : Loading motor PC board assy **NAETC-7817-1A <CDD1N>, NAETC-7817-1B <CPA4P>**

CIRCUIT NO.	PART NAME	PART NO.	DESCRIPTION	REMARK
D101	C-DIODE	4840-1660-0	1SS355	
D101 or	C-DIODE	480S-3520-3	1SS352	
D102	C-DIODE	4840-1660-0	1SS355	
D102 or	C-DIODE	480S-3520-3	1SS352	
D103	C-DIODE	4840-1660-0	1SS355	
D103 or	C-DIODE	480S-3520-3	1SS352	
D104	C-DIODE	4840-1660-0	1SS355	
D104 or	C-DIODE	480S-3520-3	1SS352	
D401	C-DIODE	4840-1660-0	1SS355	
D401 or	C-DIODE	480S-3520-3	1SS352	
D701	ZENER D	483H-2V71-3	UDZ2.7B	
D702	ZENER D	483H-2V21-3	UDZ2.2B	
D703	ZENER D	483H-4V31-3	UDZS4.3B	
D731	C-DIODE	4840-1660-0	1SS355	
D731 or	C-DIODE	480S-3520-3	1SS352	
D732	ZENER D	483H-5V11-3	UDZS5.1B	
D733	C-DIODE	4840-1660-0	1SS355	
D733 or	C-DIODE	480S-3520-3	1SS352	
D734	C-DIODE	4840-1660-0	1SS355	
D734 or	C-DIODE	480S-3520-3	1SS352	
D801	LED	3700-2824-B	SLR-343BBT-XG	
D801 or	LED	3700-2835-B	SLR-343BBT-XH	
D801A	HOLDER	4171-0021-0	(LED)LA-5-6	
D802	LED	3700-2824-B	SLR-343BBT-XG	
D802 or	LED	3700-2835-B	SLR-343BBT-XH	
D802A	HOLDER	4171-0021-0	(LED)LA-5-6	
D803	LED	3700-2531-R	SLR-342VR	
Q109	TR	485A-1140-3	DTA114YKA	
Q109 or	TR	4852-4070-3	RN2407	
Q109 or	TR	4860-3440-3	KRA107S	
Q110	TR	485C-1140-3	DTC114YKA	
Q110 or	TR	4851-4070-3	RN1407	
Q110 or	TR	4851-07S0-3	KRC107S	
Q201	IC	3131-8760-0	LA73054	
Q202	TR	485C-1140-3	DTC114YKA	
Q202 or	TR	4851-4070-3	RN1407	
Q202 or	TR	4851-07S0-3	KRC107S	
Q203	TR	485A-1140-3	DTA114YKA	
Q203 or	TR	4852-4070-3	RN2407	
Q203 or	TR	4860-3440-3	KRA107S	
Q401	IC	3132-0180-0	PCM1742KE	
Q403	IC	3131-9970-0	NJM4580M-D	

Q404	IC		3131-9970-0	NJM4580M-D	
Q405	IC		3131-9970-0	NJM4580M-D	
Q406	IC		3131-9970-0	NJM4580M-D	
Q407	TR		485C-03FB-3	HN1C03F-B	
Q408	TR		485C-03FB-3	HN1C03F-B	
Q411	IC		3131-9960-0	TC74VHCU04FT	
Q412	PHT CP		481T-X179-3	TOTX179	
Q413	IC		3132-0270-0	NJM2370U05	
Q415	TR		485C-1140-3	DTC114YKA	
Q415 or	TR		4851-4070-3	RN1407	
Q415 or	TR		4851-07S0-3	KRC107S	
Q416	TR		485C-1140-3	DTC114YKA	
Q416 or	TR		4851-4070-3	RN1407	
Q416 or	TR		4851-07S0-3	KRC107S	
Q417	TR		485A-1140-3	DTA114YKA	
Q417 or	TR		4852-4070-3	RN2407	
Q417 or	TR		4860-3440-3	KRA107S	
Q418	TR		485A-1140-3	DTA114YKA	
Q418 or	TR		4852-4070-3	RN2407	
Q418 or	TR		4860-3440-3	KRA107S	
Q419	TR		485C-1140-3	DTC114YKA	
Q419 or	TR		4851-4070-3	RN1407	
Q419 or	TR		4851-07S0-3	KRC107S	
Q701	IC		3132-0190-1	MPD780053GC-141-8BT	
Q702	IC		3132-0200-0	S-80130CLMC-JIP-T2	
Q703	TR		485A-1140-3	DTA114YKA	
Q703 or	TR		4852-4070-3	RN2407	
Q703 or	TR		4860-3440-3	KRA107S	
Q704	IC		3131-7990-0	TA7291S	
Q705	IC		3131-7990-0	TA7291S	
Q706	TR		485C-1140-3	DTC114YKA	
Q706 or	TR		4851-4070-3	RN1407	
Q706 or	TR		4851-07S0-3	KRC107S	
Q707	TR		4851-1620-3	2SA1162-O	
Q709	TR		485C-1140-3	DTC114YKA	
Q709 or	TR		4851-4070-3	RN1407	
Q709 or	TR		4851-07S0-3	KRC107S	
Q710	TR		4852-712G-3	2SC2712-GR	
Q711	TR		4852-712G-3	2SC2712-GR	
Q712	TR		485C-1140-3	DTC114YKA	
Q712 or	TR		4851-4070-3	RN1407	
Q712 or	TR		4851-07S0-3	KRC107S	
Q713	TR		485D-655E-K	2SD655-E	
Q714	TR		485D-655E-K	2SD655-E	
Q715	TR		485A-1140-3	DTA114YKA	
Q715 or	TR		4852-4070-3	RN2407	
Q715 or	TR		4860-3440-3	KRA107S	
Q716	PHT INT		481P-2S28-3	GP2S28	
Q717	PHT CP		481P-I576-3	RPI-576	
Q801	IC		3131-9950-0	MPD780232GC-070-8BT	
Q802	FL TUBE		2460-2020-0	HNV-12SM34	
Q802A	HOLDER		4154-6111-0	(FL)	
Q802B	SCREW		2954-3006-3000	3TTB+6B(BC)	
Q805	TR		485C-1140-3	DTC114YKA	
Q805 or	TR		4851-4070-3	RN1407	
Q805 or	TR		4851-07S0-3	KRC107S	
Q806	TR		4852-712G-3	2SC2712-GR	

Q808	REMO SENS	481M-7138-3	RPM7138
Q809	TR	485C-1140-3	DTC114YKA
Q809 or	TR	4851-4070-3	RN1407
Q809 or	TR	4851-07S0-3	KRC107S
Q810	TR	485C-1140-3	DTC114YKA
Q810 or	TR	4851-4070-3	RN1407
Q810 or	TR	4851-07S0-3	KRC107S
L201	EMIFIL	1806-3647-0	BK1608LM182-T
L221	CHOKE COIL	1803-0080-0	NCH-1482
L403	CHOKE COIL	1803-0064-0	NCH-1471
L404	CHOKE COIL	1803-0064-0	NCH-1471
L405	EMIFIL	1806-3647-0	BK1608LM182-T
L406	CHOKE COIL	1803-0064-0	NCH-1471
L407	EMIFIL	1806-3647-0	BK1608LM182-T
L701	CHOKE COIL	1803-0075-0	NCH-3608K470
L702	CHOKE COIL	1803-0075-0	NCH-3608K470
X701	CERA LOCK	2703-0870-0	CSTLS4M50G56-A0
X801	CERA LOCK	2703-0880-0	CSTS0500MG06
C201	C-CERA C	150D-104K-P-AC	CK725B1C-104K1
C203	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)
C205	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)
C207	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)
C209	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)
C210	ELECT C	157B-107M-K-IUI	CE04W6.3V100M(SC)
C211	ELECT C	157B-107M-K-IUI	CE04W6.3V100M(SC)
C212	ELECT C	157B-108M-5-OVI	CE04W6.3V1000M(SC)
C213	ELECT C	157B-477M-5-LUI	CE04W6.3V470M(SC)
C214	ELECT C	157B-108M-5-OVI	CE04W6.3V1000M(SC)
C215	ELECT C	157B-477M-5-LUI	CE04W6.3V470M(SC)
C216	ELECT C	157B-477M-5-LUI	CE04W6.3V470M(SC)
C217	C-CERA C	150D-104K-P-AC	CK725B1C-104K1
C231	C-CERA C	15CH-152J-P-AC	CC725CH1H-152J1
C401	ELECT C	157D-107M-5-IUI	CE04W16V100M(SC)
C402	ELECT C	157D-107M-5-IUI	CE04W16V100M(SC)
C405	ELECT C	157B-227M-5-IUI	CE04W6.3V220M(SC)
C406	ELECT C	157B-227M-5-IUI	CE04W6.3V220M(SC)
C407	TF C	153F-104J-K-MMN	ECQ-V50V-104J
C408	TF C	153F-104J-K-MMN	ECQ-V50V-104J
C409	ELECT C	157F-475M-5-IUI	CE04W50V4.7M(SC)
C410	TF C	153F-104J-K-MMN	ECQ-V50V-104J
C411	ELECT C	157D-226M-5-IUI	CE04W16V22M(SC)
C412	ELECT C	157D-226M-5-IUI	CE04W16V22M(SC)
C413	TF C	153F-221K-5-MMN	ECQ-B50V-221K
C414	TF C	153F-221K-5-MMN	ECQ-B50V-221K
C415	TF C	153F-221K-5-MMN	ECQ-B50V-122J
C416	TF C	153F-221K-5-MMN	ECQ-B50V-122J
C417	TF C	153F-272J-K-MMN	ECQ-B50V-272J
C418	TF C	153F-272J-K-MMN	ECQ-B50V-272J
C419	ELECT C	157F-226M-5-IUI	CE04W50V22M(SC)
C420	ELECT C	157F-226M-5-IUI	CE04W50V22M(SC)
C421	ELECT C	157D-477M-5-OVI	CE04W16V470M(SC)
C422	ELECT C	157D-477M-5-OVI	CE04W16V470M(SC)
C423	ELECT C	157F-105M-K-IUI	CE04W50V1.0M(SC)
C424	C-CERA C	150F-223Z-P-AC	CK725F1H-223Z1
C425	ELECT C	157B-227M-5-IUI	CE04W6.3V220M(SC)
C426	C-CERA C	150D-104K-P-AC	CK725B1C-104K1
C427	C-CERA C	150D-104K-P-AC	CK725B1C-104K1

C428	C-CERA C	15CH-020C-P-AC	CC725CH1H-020C1
C429	C-CERA C	15CH-020C-P-AC	CC725CH1H-020C1
C430	C-CERA C	150D-104K-P-AC	CK725B1C-104K1
C431	C-CERA C	15CH-220J-P-AC	CC725CH1H-220J1
C432	ELECT C	157B-107M-K-IUI	CE04W6.3V100M(SC)
C433	C-CERA C	150D-104K-P-AC	CK725B1C-104K1
C434	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)
C435	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)
C436	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C437	C-CERA C	15CH-330J-P-AC	CC725CH1H-330J1
C438	C-CERA C	15CH-330J-P-AC	CC725CH1H-330J1
C439	TF C	153F-102J-K-MMN	ECQ-B50V-102J
C440	TF C	153F-102J-K-MMN	ECQ-B50V-102J
C441	ELECT C	157D-476M-K-IUI	CE04W16V47M(SC)
C442	ELECT C	157F-105M-K-IUI	CE04W50V1.0M(SC)
C603	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C604	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C703	ELECT C	157D-107M-K-LII	CE04W16V100M(SSK)
C704	ELECT C	157D-107M-K-LII	CE04W16V100M(SSK)
C705	C-CERA C	150F-223Z-P-AC	CK725F1H-223Z1
C706	C-CERA C	150F-223Z-P-AC	CK725F1H-223Z1
C707	C-CERA C	150F-223Z-P-AC	CK725F1H-223Z1
C711	ELECT C	157D-106M-K-GII	CE04W16V10M(SSK)
C712	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C713	ELECT C	157D-106M-K-GII	CE04W16V10M(SSK)
C714	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C715	ELECT C	157D-106M-K-GII	CE04W16V10M(SSK)
C716	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C717	ELECT C	157D-106M-K-GII	CE04W16V10M(SSK)
C718	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C719	ELECT C	157D-106M-K-GII	CE04W16V10M(SSK)
C720	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C721	ELECT C	157D-106M-K-GII	CE04W16V10M(SSK)
C722	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C728	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C729	ELECT C	157B-107M-K-LII	CE04W6.3V100M(SSK)
C731	ELECT C	157F-105M-5-GII	CE04W50V1M(SSK)
C732	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C733	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1
C761	C-CERA C	150F-223Z-P-AC	CK725F1H-223Z1
C762	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C764	C-CERA C	150F-223Z-P-AC	CK725F1H-223Z1
C765	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C766	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C767	ELECT C	157D-107M-K-LII	CE04W16V100M(SSK)
C768	ELECT C	157B-107M-K-LII	CE04W6.3V100M(SSK)
C801	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)
C802	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C803	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C804	ELECT C	157B-107M-K-IUI	CE04W6.3V100M(SC)
C808	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1
C813	C-CERA C	150F-223Z-P-AC	CK725F1H-223Z1
C815	C-CERA C	15CH-330J-P-AC	CC725CH1H-330J1
C816	C-CERA C	15CH-330J-P-AC	CC725CH1H-330J1
C817	C-CERA C	15CH-330J-P-AC	CC725CH1H-330J1
C818	C-CERA C	15CH-330J-P-AC	CC725CH1H-330J1
C819	C-CERA C	15CH-330J-P-AC	CC725CH1H-330J1

C820	ELECT C	157F-225M-5-IUI	CE04W50V2.2M(SC)	
C827	CERA C	150F-223Z-5-RE	CK45F50V-223Z	
C828	CERA C	150F-223Z-5-RE	CK45F50V-223Z	
C829	CERA C	150F-223Z-5-RE	CK45F50V-223Z	
R129	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
R2001	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2002	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2003	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2004	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2005	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2006	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2007	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2008	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2009	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R205	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R206	C-CARBON R	4723-472J-P-R	RN72K1J-472JE	
R207	C-CARBON R	4723-472J-P-R	RN72K1J-472JE	
R208	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R211	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R212	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R214	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R215	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R216	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R217	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R218	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R219	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R220	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R221	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R222	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R223	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R224	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R225	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R226	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R229	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R230	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R231	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R234	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R235	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R236	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R237	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R238	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R275	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R281	C-CARBON R	4723-221J-P-R	RN72K1J-221JE	
R282	C-CARBON R	4723-2R2J-P-R	RN72K1J-022JE	
R4001	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R4003	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R401	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R402	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R403	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R404	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R405	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R406	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R407	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R408	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R409	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R411	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	
R412	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	

R413	C-CARBON R		4723-153J-P-R	RN72K1J-153JE	
R414	C-CARBON R		4723-153J-P-R	RN72K1J-153JE	
R415	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R416	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R417	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R418	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R419	C-CARBON R		4723-333J-P-R	RN72K1J-333JE	
R420	C-CARBON R		4723-333J-P-R	RN72K1J-333JE	
R421	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R422	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R423	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R424	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R425	C-CARBON R		4723-152J-P-R	RN72K1J-152JE	
R426	C-CARBON R		4723-152J-P-R	RN72K1J-152JE	
R427	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R428	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R430	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R431	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R432	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R433	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R434	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R435	C-CARBON R		4723-152J-P-R	RN72K1J-152JE	
R436	C-CARBON R		4723-152J-P-R	RN72K1J-152JE	
R437	C-CARBON R		4723-152J-P-R	RN72K1J-152JE	
R438	C-CARBON R		4723-152J-P-R	RN72K1J-152JE	
R439	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R440	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R441	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R442	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R443	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R444	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R445	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R446	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R447	C-CARBON R		4723-221J-P-R	RN72K1J-221JE	
R448	C-CARBON R		4723-221J-P-R	RN72K1J-221JE	
R449	C-CARBON R		4723-221J-P-R	RN72K1J-221JE	
R450	C-CARBON R		4723-221J-P-R	RN72K1J-221JE	
R451	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R452	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R453	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R454	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R455	METAL O R		4717-151J-5-X	RS1/2WBJ-150	
R456	METAL O R		4717-151J-5-X	RS1/2WBJ-150	
R457	C-CARBON R		4723-472J-P-R	RN72K1J-472JE	
R458	C-CARBON R		4723-332J-P-R	RN72K1J-332JE	
R459	C-CARBON R		4723-105J-P-R	RN72K1J-105JE	
R460	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R461	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R462	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R463	C-CARBON R		4723-474J-P-R	RN72K1J-474JE	
R464	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R465	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R466	C-CARBON R		4723-331J-P-R	RN72K1J-331JE	
R467	C-CARBON R		4723-181J-P-R	RN72K1J-181JE	
R468	C-CARBON R		4723-181J-P-R	RN72K1J-181JE	
R471	METAL O R		4717-101J-5-X	RS1/2WBJ-100	
R474	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	

R476	C-CARBON R		4723-473J-P-R	RN72K1J-473JE	
R477	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R480	C-CARBON R		4723-392J-P-R	RN72K1J-392JE	
R481	C-CARBON R		4723-123J-P-R	RN72K1J-123JE	
R482	C-CARBON R		4723-273J-P-R	RN72K1J-273JE	
R7001	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R701	C-CARBON R		4723-822J-P-R	RN72K1J-822JE	
R702	C-CARBON R		4723-332J-P-R	RN72K1J-332JE	
R703	C-CARBON R		4723-105J-P-R	RN72K1J-105JE	
R704	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R705	C-CARBON R		4723-822J-P-R	RN72K1J-822JE	
R706	C-CARBON R		4723-562J-P-R	RN72K1J-562JE	
R707	C-CARBON R		4723-105J-P-R	RN72K1J-105JE	
R708	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R709	NF CARBON R		4705-4R7J-K-P	R25J-4.7	
R710	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R711	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R712	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R713	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R714	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R715	NF CARBON R		4705-4R7J-K-P	R25J-4.7	
R716	C-CARBON R		4723-682J-P-R	RN72K1J-682JE	
R717	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R718	C-CARBON R		4723-472J-P-R	RN72K1J-472JE	
R719	C-CARBON R		4723-562J-P-R	RN72K1J-562JE	
R720	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R721	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R722	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R723	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R724	C-CARBON R		4723-224J-P-R	RN72K1J-224JE	
R725	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R726	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R731	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R732	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R733	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R734	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R735	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R736	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R737	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R738	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R739	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R740	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R741	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R742	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R743	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R744	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R745	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R746	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R747	C-CARBON R		4723-100J-P-R	RN72K1J-100JE	
R748	C-CARBON R		4723-473J-P-R	RN72K1J-473JE	
R749	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R750	C-CARBON R		4723-224J-P-R	RN72K1J-224JE	
R751	C-CARBON R		4723-472J-P-R	RN72K1J-472JE	
R752	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R754	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R756	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R757	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	<CPA4P>

R758	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	<CDD1N>
R761	C-CARBON R		4723-181J-P-R	RN72K1J-181JE	
R762	C-CARBON R		4723-154J-P-R	RN72K1J-154JE	
R763	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R764	C-CARBON R		4723-474J-P-R	RN72K1J-474JE	
R765	C-CARBON R		4723-274J-P-R	RN72K1J-274JE	
R766	C-CARBON R		4723-472J-P-R	RN72K1J-472JE	
R767	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R768	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R771	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R781	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R782	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R783	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R784	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R786	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R791	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R792	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R801	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R802	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R803	C-CARBON R		4723-821J-P-R	RN72K1J-821JE	
R804	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R805	C-CARBON R		4723-182J-P-R	RN72K1J-182JE	
R806	C-CARBON R		4723-392J-P-R	RN72K1J-392JE	
R807	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R808	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R809	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R810	C-CARBON R		4723-821J-P-R	RN72K1J-821JE	
R811	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R812	C-CARBON R		4723-182J-P-R	RN72K1J-182JE	
R813	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R814	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R815	C-CARBON R		4723-821J-P-R	RN72K1J-821JE	
R816	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R821	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R822	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R823	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R824	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R825	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R826	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R827	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R828	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R831	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R832	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R833	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R834	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R835	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R836	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R837	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R838	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R841	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R842	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R843	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R844	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R845	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R846	METAL O R		4717-4R7J-1	RS1/2WBJ-4.7	
R847	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R848	C-CARBON R		4723-151J-P-R	RN72K1J-151JE	

R849	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R850	C-CARBON R		4723-151J-P-R	RN72K1J-151JE	
R856	C-CARBON R		4723-273J-P-R	RN72K1J-273JE	
E201	WS CLAMP		6360-9650-0	CP-1S	
P2001A	SOCKET		2101-1440-0	NSCT-14P2405	
P2001A or	SOCKET		2101-1542-0	NSCT-14P2211	
P201	PIN JACK		2113-2017-0	NPJ-3PDGLR511	
P202A	PIN JACK		2113-2018-0	NPJ-5PDBY456	
P2401A	SOCKET		2101-1441-0	NSCT-15P2433	
P2401A or	SOCKET		2101-1543-0	NSCT-15P2249	
P2501B	PLUG		2101-3005-0	2003P0700T	PH SIDE
P2901B	PLUG		2101-3006-0	2003P0600T	PH SIDE
P401	PIN JACK		2113-2020-0	NPJ-2PDRW435	
P402	PIN JACK		2113-2021-0	NPJ-1PDOR369	
P403	PLUG		2101-1416-0	NPLG-2P116	
P403A	SOCKET AS		7012-6551-0	NSAS-4P1100	
P602	PIN JACK		2113-2022-0	NPJ-2PDB400	
P701A	SOCKET AS		7012-6540-0	NSAS-6P1140	
P701B	PLUG		2101-1415-0	NPLG-3P941	AMP SIDE
P702A	PLUG		2101-1418-0	NPLG-11P431	
P702B	PLUG		2101-1418-0	NPLG-11P431	
P704	PLUG		2101-1417-0	NPLG-11P949	
P704A	SOCKET AS		7012-6542-0	NSAS-22P1126	
P707A	SOCKET		2101-1421-0	NSCT-6P2099	
P707A or	SOCKET		2101-1538-0	NSCT-6P1600	
P707A or	SOCKET		2101-1540-0	NSCT-6P1802	
P707B	SOCKET		2101-1422-0	NSCT-6P2136	
P707B or	SOCKET		2101-1541-0	NSCT-6P1839	
P707B or	SOCKET		2101-1539-0	NSCT-6P1637	
P708A	PLUG		2101-1451-0	NPLG-2P940	
P708B	SOCKET AS		7012-6554-0	NSAS-4P1138	
P709A	PLUG		2101-1424-0	NPLG-2P422	
P709B	SOCKET AS		7012-6545-0	NSAS-4P1127	
P802A	SOCKET AS		7012-6546-0	NSAS-8P1118	
P804A	PLUG		2101-1425-0	NPLG-5P425	AMP TOP
P804B	SOCKET AS		7012-6547-0	NSAS-10P1119	
P805A	PLUG		2101-1426-0	NPLG-4P424	AMP TOP
P805B	SOCKET AS		7012-6548-0	NSAS-8P1120	
P806A	SOCKET AS		7012-6552-0	NSAS-6P1137	
S701	PUSH SW		5200-4862-0-01	NPS-111-S679	
S702	PUSH SW		5200-4862-0-01	NPS-111-S679	
S703	PUSH SW		5200-4862-0-01	NPS-111-S679	
S801	PUSH SW		5200-4861-0-01	NPS-111-S681	
S802	PUSH SW		5200-4861-0-01	NPS-111-S681	
S803	PUSH SW		5200-4861-0-01	NPS-111-S681	
S804	PUSH SW		5200-4861-0-01	NPS-111-S681	
S805	PUSH SW		5200-4861-0-01	NPS-111-S681	
S806	PUSH SW		5200-4861-0-01	NPS-111-S681	
S807	PUSH SW		5200-4861-0-01	NPS-111-S681	
S808	PUSH SW		5200-4861-0-01	NPS-111-S681	
S809	PUSH SW		5200-4861-0-01	NPS-111-S681	
S810	PUSH SW		5200-4861-0-01	NPS-111-S681	
S811	PUSH SW		5200-4861-0-01	NPS-111-S681	
S812	PUSH SW		5200-4861-0-01	NPS-111-S681	
S813	PUSH SW		5200-4861-0-01	NPS-111-S681	
S814	PUSH SW		5200-4861-0-01	NPS-111-S681	
S815	PUSH SW		5200-4861-0-01	NPS-111-S681	

S816	PUSH SW		5200-4861-0-01	NPS-111-S681	
S817	PUSH SW		5200-4861-0-01	NPS-111-S681	
S818	PUSH SW		5200-4861-0-01	NPS-111-S681	
S819	PUSH SW		5200-4861-0-01	NPS-111-S681	

DVD MECHANISM SECTION PARTS LIST

DV-CP702

NO.	PART NAME	PART NO.	DESCRIPTION	REMARK	N	Q'TY
M1	RAIL	4154-6031-2				1
M2	Loading motor assy	Q0090C-MOTCC		(M2)+(M3)		1
(M2)	MOTOR	8913-6002-1	CCM07B-045R1-1A	NSP		1
(M3)	PULLEY	4154-6001-0		M2*1 NSP		1
M4	SCREW	2900-2604-0000	2.6TTP+4S	M1*2		2
M5	TAPE	9500-9006-0	CLOTH-8U	0.03MT		1
M6	RBR BELT	4157-0281-0	DVCP701			1
M7	GEAR	4154-6061-0	(PULLEY)			1
M8	GEAR	4154-6091-0	(A)			1
M9	GEAR	4154-6071-0	(MAIN)			1
M10	GEAR	4154-6101-0	(CAM)			1
M11	SCREW	4135-3301-0	SCREW	M7*1,M9*1,M10*1		3
M12	DVD M	24801016	KHM-280AAA			1
M13	CHASSIS	4154-6041-1	(SUB)			1
M14	INSULATOR	4154-6141-0	(A)			2
M15	INSULATOR	4157-0261-0	(B)			2
M16	SCREW	4135-3301-0	SCREW	M14*2,M15*2		4
M17	CAP	4154-6161-0	(CHC)			1
M18	YOKE	4135-3201-1	(CHB)			1
M19	MAGNET	4135-3211-0	(CHB)			1
M20	SCREW	2854-3008-0000	3TTB+8B	PCB*6		6
M22	TAPE	9500-9007-0	TAPE(CLOTH-16U)	M1:0.07:MT		1
M23	SPRING	2510-3591-0	(DV-CP701)			1
M30	TRAY	4154-6011-5				1
M31	BRACKET AS	8901-4650-1	(M)			1
M32	Roulette motor assy	Q0090C-MOTPW		(M32)+(M33)+(M42)		1
(M32)	MOTOR	8913-6003-0	PWN10EA02D	NSP		1
(M33)	GEAR	4154-6081-0	(WORM)	M32*1 NSP		1
(M42)	WASHER	4155-0171-0	0.5t*2.1*6	M32*2 NSP		2
M34	SCREW	2900-2003-0000	2P+3F(BC)	M31*2		2
M35	GEAR	4154-5991-0	(WHEEL)			1
M36	WASHER	4154-4491-0	(B)	M35*1		1
M37	SCREW	2854-3008-0000	3TTB+8B	M31*2,PCB*1		3
M38	ROLLER	4154-6131-0	DVCP701	M30*4		4
M39	ROULETTE	4154-6021-1				1
M40	SCREW	4135-3301-0	SCREW	M30*1		1
M41	TAPE	9500-9006-0	CLOTH-8U	M30:0.03:MT		1
M50	ARM	4154-6051-0				1
M51	CUSHION	4157-0532-0		M50*1,M52*1		2
M52	RETAINER	4135-3881-0				1
M53	SCREW	2854-3008-0000	3TTB+8B	M52*1		1
M54	CUSHION	4157-0591-0		M1*2		2

! : Safety part

 : Black color model

<S> : Silver color model

<CDD1N> : North American area

<CPA4P> : Australian area

Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

EXPLODED VIEW PARTS LIST

DV-CP702

NO.	PART NAME	PART NO.	DESCRIPTION	REMARK
A1	F PANEL	1466-1803-0		
A1	F PANEL	1466-1804-0	<S>	
A2	KNOB	2446-3901-0	(STBY) 	
A2	KNOB	2446-3701-0	(STBY) <S>	
A3	KNOB	2446-4101-0	(SEL) 	
A3	KNOB	2446-3801-0	(SEL) <S>	
A4	KNOB	2446-4601-0	(EJ) 	
A4	KNOB	2446-4401-0	(EJ) <S>	
A5	KNOB	2446-4301-0	(PLAY) 	
A5	KNOB	2446-4001-0	(PLAY) <S>	
A6	KNOB	2446-4501-0	(DIS) 	
A6	KNOB	2446-4201-0	(DIS) <S>	
A7	RETAINER	4135-3701-0	(BDG) <S>	
A8	BADGE	4154-6151-0	BADGE 	
A8	BADGE	4154-6211-0	BADGE <S>	
A12	CLEAR PLT	3717-1011-0		
A12	CLEAR PLT	3717-1110-0	<S>	
A13	FACET	3716-8306-0	(LIGHT)	
A14	FACET	3716-8511-0	(S)	
A15	DF TAPE	9500-0400-0	W2	0.008MT
A16	TAPE	9500-9006-0	CLOTH-8U	0.05MT
A18	BRACKET	4135-3181-1	(F)	
A19	SCREW	2954-2608-3000	2.6TTB+8B(BC)	
A21	ISO PLT	4154-6191-0		
A22	P RIVET	4154-5341-0-V	P-3055B-8L	
A25	SCREW	2854-3008-0000	3TTB+8B	
A26	SCREW	2950-3008-3010	3TTW+8B(BC)	A001x1
A30	CHASSIS	1404-7621-2		
A31	HOLDER	4154-5291-0	KGLS-10RT	
A32	WS CLAMP	6360-9640-0	CLAMP WS-2W	
A33	RETAINER	4135-3191-0	(R)	
A41	LEG	4154-6171-0	LEG	
A42	CUSHION	4157-0311-0		
A46	CUSHION	4149-0401-0		
A48	BUSHING	! 4152-3851-0	S-RELIEF #2271	
A50	DOOR	4154-6121-2	(TRAY) 	
A50	DOOR	4154-6122-2	(TRAY) <S>	
A53	REAR PANEL	1404-7501-0	<CDD1N>	
A53	REAR PANEL	1404-7503-0	<CPA4P>	
A54	SCREW	2954-3008-3000	3TTB+8B(BC)	A053x11
A56	LABEL(DVD2)	3000-9443-0		
A214	COVER	1404-7401-0		
A214	COVER	1404-7402-0	<S>	
A215	SCREW	2954-3008-3000	3TTB+8B(BC) 	A214(6)
A215	SCREW	4135-3311-0	3TTB+8B(UN) <S>	A214(6)
A216	SHEET	3000-9632-0	(S)	
A217	TAPE	9500-9006-0	CLOTH-8U	0.42MT
E102	WIRE TIE	6360-1371-0		
E821	CORE	1808-0740-0	GM8T25*15*10	
F1	FUSE	! 5120-0130-0	1.6A-UL/T-237 <CDD1N>	
F1 or	FUSE	! 5120-1000-0	1.6A-T/UL-ST2 <CDD1N>	
F1	FUSE	! 5120-0094-0	2.5A-SE-EAK FUSE <CPA4P>	
F1 or	FUSE	! 5120-1010-0	2.5A-SE-TL250V <CPA4P>	
P1001	FFC	7012-6553-0	NCFC5-26003	
P1101	SOCKET AS	7012-6524-0	NSAS-12P0960	
P2001	FFC	7012-6525-0	NCFC5-141522	
P2401	FFC	7012-6526-0	NCFC5-152022	
P2501	SOCKET AS	7012-6795-0	001-0206-H	KR-KR
P2901	SOCKET AS	7012-6528-0	001-0486-H	PH-PH
P702	SOCKET AS	7012-6521-0	NSAS-22P1141	
P707	FFC	7012-6522-0	NCFC6-063012	
P901	AC CORD	! 7012-6533-1	AS-UC-2 <CDD1N>	
P901 or	AC CORD	! 7012-6781-0	AS-UC-2 <CDD1N>	
P901 or	AC CORD	! 7012-6774-0	AS-UC-2 <CDD1N>	
P901	AC CORD	! 7012-6564-0	AS-SAA <CPA4P>	
P901 or	AC CORD	! 7012-6773-0	AS-SAA <CPA4P>	
P901 or	AC CORD	! 7012-6564-0	AS-SAA <CPA4P>	

U1	DVD Main circuit PC board assy	PCB-Q0090C-MPEGA	NADG-7807-1A <CDD1N>	
U1	DVD Main circuit PC board assy	PCB-Q0090C-MPEGB	NADG-7807-1A <CPA4P>	
U2	Display circuit PC board assy	PCB-Q0150C-MAINA	NADIS-7808-1A <CDD1N>	NSP
U2	Display circuit PC board assy	PCB-Q0150C-MAINB	NADIS-7808-1B <CPA4P>	NSP
(U3)	Front disp. PC board assy	1H498508-1A	NADIS-7808-1A <CDD1N>	
(U3)	Front disp. PC board assy	1H498508-1B	NADIS-7808-1B <CPA4P>	
(U4)	Mecha. Control PC board assy	1H498509-1A	NADG-7809-1A <CDD1N>	
(U4)	Mecha. Control PC board assy	1H498509-1B	NADG-7809-1B <CPA4P>	
(U5)	Video output terminal PC board assy	1H498510-1A	NAVD-7810-1A <CDD1N>	
(U5)	Video output terminal PC board assy	1H498510-1B	NAVD-7810-1B <CPA4P>	
(U6)	Audio output terminal PC board assy	1H498511-1A	NAAF-7811-1A <CDD1N>	
(U6)	Audio output terminal PC board assy	1H498511-1B	NAAF-7811-1B <CPA4P>	
(U7)	Disc select switch PC board assy	1H498512-1A	NASW-7812-1A <CDD1N>	
(U7)	Disc select switch PC board assy	1H498512-1B	NASW-7812-1B <CPA4P>	
(U8)	Key operation PC board assy	1H498513-1A	NASW-7813-1A <CDD1N>	
(U8)	Key operation PC board assy	1H498513-1B	NASW-7813-1B <CPA4P>	
(U9)	Standby switch PC board assy	1H498514-1A	NASW-7814-1A <CDD1N>	
(U9)	Standby switch PC board assy	1H498514-1B	NASW-7814-1B <CPA4P>	
(U10)	LED display PC board assy	1H498515-1A	NADIS-7815-1A <CDD1N>	
(U10)	LED display PC board assy	1H498515-1B	NADIS-7815-1B <CPA4P>	
(U11)	Roulette motor PC board assy	1H498516-1A	NAETC-7816-1A <CDD1N>	
(U11)	Roulette motor PC board assy	1H498516-1B	NAETC-7816-1B <CPA4P>	
(U12)	Loading motor PC board assy	1H498517-1A	NAETC-7817-1A <CDD1N>	
(U12)	Loading motor PC board assy	1H498517-1B	NAETC-7817-1B <CPA4P>	
(U13)	Disc sensor PC board assy	1H498518-1A	NAETC-7818-1A <CDD1N>	
(U13)	Disc sensor PC board assy	1H498518-1B	NAETC-7818-1B <CPA4P>	
U30	Power supply unit	! 8910-0740-0	NGPS-0036-100-120V <CDD1N>	
U30	Power supply unit	! 8910-0750-0	NGPS-0037-100-240V <CPA4P>	

PACKING PARTS LIST

DV-CP702

NO.	PART NAME	PART NO. (GPE)	DESCRIPTION	REMARK
A603a	PAD	1490-4401-0	(L)	
A603b	PAD	1490-4411-0	(R)	
A604	SHEET	4154-6221-0	(DR)	
A606	BAG	1497-7542-0		
A608	TAPE	9500-9012-0	(SEROHAN)NITTO NO.29	00.3MT
A610	PP TAPE	9500-0070-0	W48 OPP TAPE	1.5MT
A651	UPC LABEL	3001-0077-0	<B CDD1N>	
A651	EAN LABEL	3001-0078-0	<B CPA4P>	
A651	UPC LABEL	3001-0079-0	<S CDD1N>	
A651	EAN LABEL	3001-0110-0	<S CPA4P>	
A652	WRNTY CARD	3050-2491-1	<CDD1N>	
A653	INST SHEET	3050-2521-0	<CDD1N>	
A655	CARTON	1436-2906-0-1	<B CDD1N>	
A655	CARTON	1436-2908-0-1	<B CPA4P>	
A655	CARTON	1436-2907-0-1	<S CDD1N>	
A655	CARTON	1436-2907-0-1	<S CPA4P>	
A656	LABEL	3001-0102-0	(RE) <S CPA4P>	
A660	POLY BAG	1497-7382-0	350*250	AC CORD
A701	POLY BAG	1497-7382-0	350*250	
E801	PIN CORD AS	7012-6531-0	RCA3P(YWR)	
E801 or	PIN CORD AS	7012-6531-0	RCA-3P(YWR)	
E802	BATTERY	4060-0930-0	R6/AA(UM-3)	
E802 or	BATTERY	4060-0930-0	R6/AA(UM-3)	
E803	PLUG CORD	7012-6539-0	3.5-MINI PLUG (RI)	
E804	CORD AS	7012-6532-0	(S CORD)	
E805	REMO CON	8912-0036-0	RC-542DV	
E810	INS MANUAL	4301-7123-0	En(DVCP702)	
E811	CORD AS	7012-6694-0	RCA-1P(O)	

! : Safety part

 : Black color model

<S> : Silver color model

<CDD1N> : North American area

<CPA4P> : Australian area

Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

ONKYO CORPORATION

Sales & Product Planning Div. : 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN
Tel: 072-831-8023 Fax: 072-831-8124

ONKYO U.S.A. CORPORATION

18 Park Way, Upper Saddle River, N.J. 07458, U.S.A.
Tel: 201-785-2600 Fax: 201-785-2650 <http://www.onkyousa.com>

ONKYO EUROPE ELECTRONICS GmbH

Liegnitzerstrasse 6, 82194 Groebenzell, GERMANY
Tel: +49-8142-4401-0 Fax: +49-8142-4401-555 <http://www.onkyo.net>

ONKYO CHINA LIMITED

Units 2102-2107, Metroplaza Tower I, 223 Hing Fong Road, Kwai Chung,
N.T., HONG KONG Tel: 852-2429-3118 Fax: 852-2428-9039