

DENON

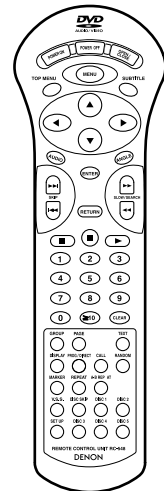
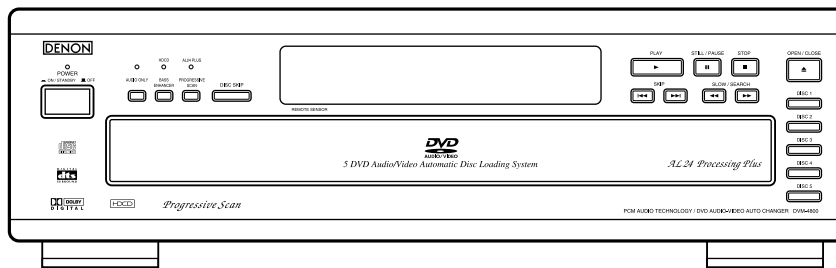
For U.S.A. & Canada model

Digital Player

SERVICE MANUAL

MODEL DVM-4800

DVD VIDEO AUTO CHANGER



- Some illustrations using in this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

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SPECIFICATIONS

Signal system:	NTSC	
Applicable discs:	(1) DVD-video/audio discs 1-layer 12 cm single-sided discs, 2-layer 12 cm single-sided discs, 2-layer 12 cm double-sided discs (1 layer per side) 1-layer 8 cm single-sided discs, 2-layer 8 cm single-sided discs, 2-layer 8 cm double-sided discs (1 layer per side) (2) Compact discs (CD-DA, Video CD) 12 cm discs, 8 cm discs	
S-Video output:	Y output level: 1 Vp-p (75 Ω /ohms) Output connectors: S connectors, two sets	C output level: 0.286 Vp-p
Video output:	Output level: 1 Vp-p (75 Ω /ohms)	Output connector: Pin-plug jacks, two sets
Component output:	Y output level: 1 Vp-p (75 Ω /ohms) Cb/Cr output level: 0.650 Vp-p (75 Ω /ohms) Output connector: Pin jack, 1 set	Pb/Pr output level: 0.700 Vp-p (75 Ω /ohms)
Audio output:	Fixed output level: 2 Vrms (1 kHz, 0 dB)	
Number of connectors:	1 set (2 ch mixed output) 1 set (6 ch discrete output)	
Audio output properties:	(1) Frequency response • DVDs (linear PCM) : 2 Hz to 22 kHz (48 kHz sampling) : 2 Hz to 44 kHz (96 kHz sampling) : 2 Hz to 88 kHz (192 kHz sampling) • CDs : 2 Hz to 20 kHz (2) S/N ratio • DVDs : 115 dB • CDs : 115 dB (3) Total harmonic distortion • DVDs : 0.0025 % • CDs : 0.0030 % (4) Dynamic range • DVDs : 108 dB • CDs : 100 dB	
Digital audio output:	Optical digital output: Coaxial digital output:	Optical connector, 1 set Pin jack, 1 set
Power supply:	AC 120 V, 60 Hz	
Power consumption:	22 W	
Maximum external dimensions:	434 (width) x 131 (height) x 415 (depth) mm (not including protruding parts)	
Mass:	7.2 kg	
Remote Control Unit:	RC-548	
Type:	Infrared pulse	
Power Supply:	DC 3 V, two batteries ("AAA" (R03))	

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

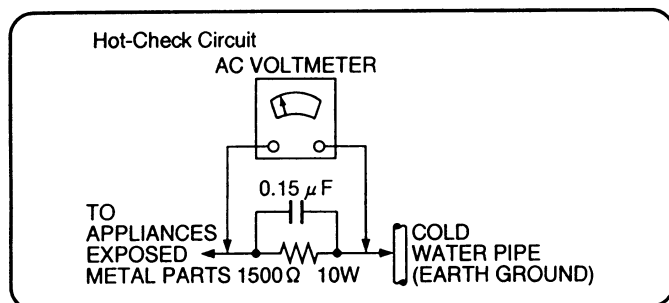


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\ \mu\text{F}$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety.

These parts are marked by Δ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

1. COUNTERMEASURES AGAINST ELECTROSTATIC DISCHARGE (ESD)

The laser diode in the traverse unit (laser pickup) may be damaged by static electricity charged in your cloth or body. Be careful not to damage it by ESD when handling for servicing.

1.1 Grounding for Electrostatic Breakdown Prevention

Components using an optical pickup (laser diode) such as DVD players etc. are liable to breakdown by static electricity under the working environment.

Perform repair work in the working condition having proper grounding for preventing static electricity.

1.1.1 Work table grounding

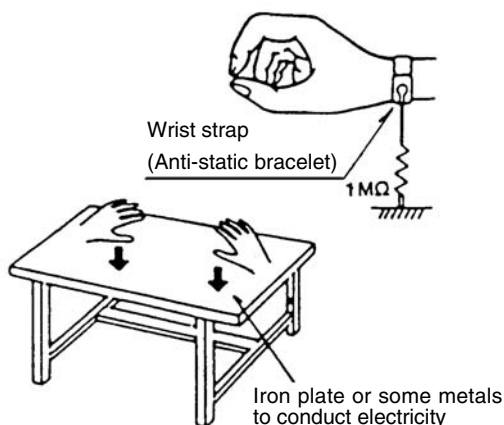
Put a conductive material (sheet) or steel sheet on the area where the optical pickup is placed and ground the sheet.

1.1.2 Human body grounding

Use an anti-static wrist strap to discharge the static electricity from your body.

1.1.3 Handling of optical pickup

- 1) The optical pickup for spare parts is supplied with its laser diode shorted to ensure quality during transportation. After the parts replacement, return to normal by proper procedures. (refer to the pages related)
- 2) Do not use a tester or etc. for checking the laser diode since the laser diode may be damaged easily by the voltage of the tester inside battery.



1.2 Handling of Traverse Unit (laser pickup)

- 1.2.1 Do not apply a strong shock to the traverse unit (laser pickup) since it is made of precise structure.
- 1.2.2 To prevent the breakdown of the laser diode, install the flexible cable after removing the short pin for preventing a electrical charge. When removing or connecting the short pin, finish the job in as short time as possible. Also, cut out the short land of the flexible cable using nippers and etc. after replacing the optical pickup. Refer to TRAVERSE UNIT DISASSEMBLY" in this manual for the handling of the traverse unit.
- 1.2.3 Be careful not to apply excessive stress to the flexible board (FPC Board) since it may cause cutting.
- 1.2.4 Do not turn the variable resistor of the laser power since it is not adjustable.

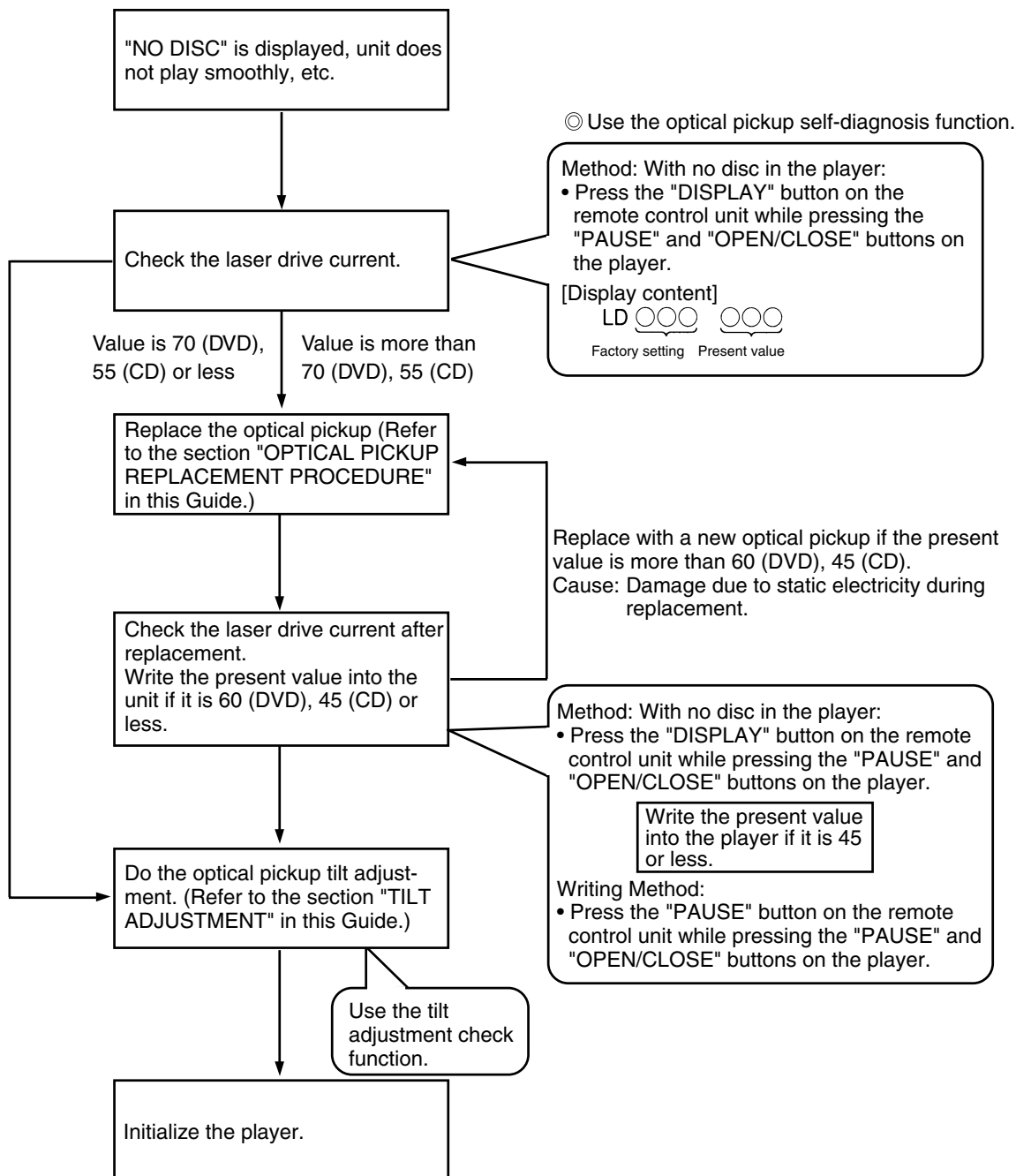
2. OPTICAL PICKUP SELF-DIAGNOSIS AND REPLACEMENT PROCEDURE

2.1 Self-diagnosis

The optical pickup self-diagnosis function and tilt adjustment check function have been included in this unit. When repairing, use the following procedure for effective Self-diagnosis and tilt adjustment. Be sure to use the self-diagnosis function before replacing the optical pickup when "NO DISC" is displayed. As a guideline, you should replace the optical pickup when the value of the laser drive current is more than 55.

Note:

Press the power button to turn on the power, and check the value within three minutes before the unit warms up. (Otherwise, the result will be incorrect.)



2.2 Cautions to Be Used Before Replacing the Optical Pickup Unit and Spindle Motor Assembly

Before replacing the optical pickup unit and spindle motor assembly, check the total using hours for each of them. The checking method is as follow:

	Operating state & Key operation	Display
Using hours of CD laser	Press "PAUSE, FWD-SKIP" and "5" on the remote control in this order while the unit is stopped	T1_xxxx_yyyy: total hours are displayed by 4-digit figures (unit: 10 hours). yyyy: CD laser Time
Using hours of DVD laser	Press "PAUSE, FWD-SKIP" and "5" on the remote control in this order while the unit is stopped	T1_xxxx_yyyy: total hours are displayed by 4-digit figures (unit: 10 hours). xxxx: DVD laser Time
Using hours of SP motor	Press "PAUSE, FWD-SKIP" and "6" on the remote control in this order while the unit is stopped	T2_xxxx: total hours are displayed by 4-digit figures (unit: 10 hours).
Resetting using hours of CD and DVD lasers (Simultaneous resetting)	While displaying Timer 1 data, press STOP and FWD-SKIP buttons on the player, and "5" button on the remote control unit	T1_0000_0000
Resetting using hours of the motor	While displaying Timer 2 data, press STOP and FWD-SKIP buttons on the player, and "6" button on the remote control unit	T2_0000

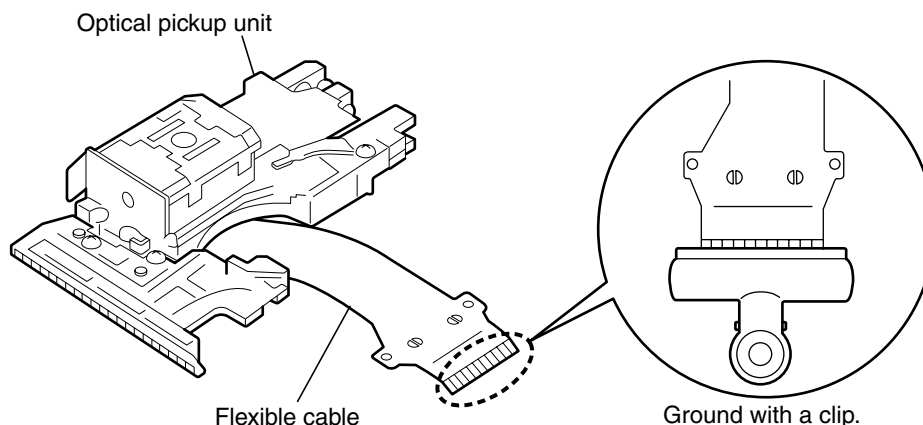
Cautions to be taken when replacing the optical pickup

The optical pickup may break down due to the static electricity of human body. Take proper protection measures against static electricity before repairing the parts around the optical pickup. (See the page describing the PREVENTION OF STATIC ELECTRICITY DISCHARGE.)

1. Do not touch the areas around the laser diode and actuator.
2. Do not judge the laser diode with a tester. (The tester will be damaged easily.)
3. It is recommended to use a destaticized soldering iron for short-circuiting or removing the laser diode.
(Recommended soldering iron) HAKKO ESD Product.
4. Solder the land of the flexible cable in the optical pickup.

Note:

- When using a soldering iron which is not destaticized, short-circuit the terminal face of the flexible case with a clip. After that, short-circuit the land.
- After the repairing work is completed, remove the solder according to the correct procedure shown in this Technical Guide.



3. SELF-DIAGNOSIS FUNCTION AND SERVICE MODES

3.1 Self-diagnosis Function and Service Modes

Improving the self-diagnosis function

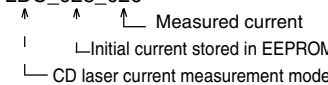
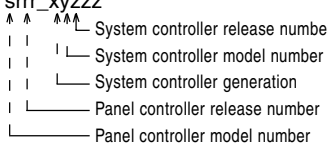
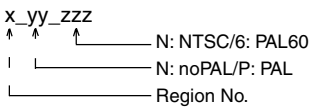
The self-diagnosis function in our DVD player currently in use is improved as follows:

Our DVD player currently in use	Our new DVD	
UHF error display The latest error storage function n=1	UHF error display The latest error storage n=20	The storage capacity is increased.
Jitter/read error display	Jitter/read error display Focus drive value display	The focus drive current value can be displayed.
Laser drive current display For DVD	laser drive current display For DVD/CD	
	ADSC internal RAM data display	The servo learning value stored in the RAM data inside the ADSC (servo controller) IC is displayed.
	Servo process display	Mainly in the initial starting operation period of the player, a number is allotted to the servo process of each step, and the process of the starting operation can be displayed.
	Total operation time display SP motor Laser (DVD/CD)	The operation times of SP motor and the laser (both for the DVD and CD) can be displayed.

3.2 Service mode table

Pressing various button combinations on the player and remote control unit can activate the service modes.

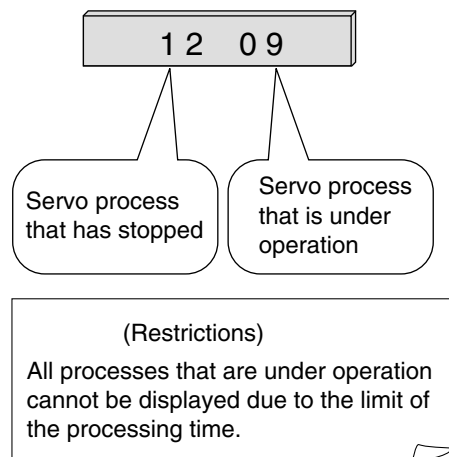
Item	Player mode and button combination	Function	Display	Cancellation method
Jitter check	In PLAY mode, press PAUSE and OPEN buttons on the player, and "5" button on the remote control unit.	Jitter check Jitter rate is measured and displayed. Measurement is repeatedly done in the cycle of one second. Read error counter starts from zero upon mode setting. When target block data failed to be read out, the counter advances by one increment. When the failure is caused by minor error, it may be corrected when retried to enable successful reading. In this case, the counter advances by one. When the error persists even after retry, the counter may jump by two or more.	Jitter rate is shown in decimal notation to one place of decimal. Focus drive value is shown in hexadecimal notation.	Press STOP or OPEN button.
Error code check	In ** mode, press PAUSE and OPEN buttons on the player, and "0" button on the remote control unit. * With pointing of cursor up and down on diplay, panel controller switches the serial number of history and sends out the command accordingly.	Error code check The latest error code stored in EEPROM is displayed.	Error code (play_err) is expressed in the following convention. Error code=0 x DAXX is expressed: → nn UXX Error code=0 x DBXX is expressed: → nn HXX Error code=0 x DXXX is expressed: → nn FXX Error code=0 x 0000 is expressed: → nn F-- * "nn" denotes the serial number of history.	Cancelled automatically 5 seconds later.
Initial setting of laser drive current	In STOP mode, press PAUSE and OPEN buttons on the player, and PAUSE button on the remote control unit.	Initial setting of laser drive current Initial current value for each of DVD laser and CD laser is separately saved in EEPROM.	The value denotes the current in decimal notation. The above example shows the initial current is 34mA and 28mA for DVD laser and CD laser respectively when the laser is switched on.	Cancelled automatically 5 seconds later.
DVD laser drive current measurement	In STOP mode, press PAUSE and OPEN buttons on the player, and DISPLAY button on the remote control unit.	DVD laser drive current measurement DVD laser drive current is measured and the result is displayed together with the initial value stored in EEPROM. After the measurement, DVD laser emission is kept on. It is turned off when POWER key is switched off. (It is also turned off when the primary power is switched off.)	The value denotes the current in decimal notation. The above example shows the initial current is 34mA and the measured value is 32mA.	Cancelled automatically 5 seconds later.
ADSC internal RAM data check	In ** mode, press PAUSE and OPEN buttons on the player, and RETURN button on the remote control unit.	ADSC internal RAM data check ADSC internal RAM data is read out and displayed. Change the address with CLEAR key operation to show the data for 11 addresses.	The value is shown in hexadecimal notation. The above example shows the data in ADSC address DFAh is 6901h.	Press STOP or OPEN button.
Servo process display	In STOP mode, press PAUSE and FWD-SKIP buttons on the player, and "7" button on the remote control unit.	Servo process display The servo process from STOP to ACCESS is displayed.		Turn off the primary power.

Item	Player mode and button combination	Function	Display	Cancellation method
CD laser drive current measurement	In STOP mode, press PAUSE and FWD-SKIP buttons on the player, and DISPLAY button on the remote control unit.	CD laser drive current measurement CD laser drive current is measured and the result is displayed together with the initial value stored in EEPROM. After the measurement, CD laser emission is kept on. It is turned off when POWER key is switched off. (It is also turned off when the primary power is switched off.)	LDC_028_026  The value denotes the current in decimal notation The above example shows the initial current is 28mA and the measured value is 26mA.	
Version display	In STOP mode, press PAUSE and OPEN buttons on the player, and "7" button on the remote control unit.	Version display	srrr_xyzzz 	Cancelled automatically 5 seconds later.
Lighting of display tube	In ** mode, press PAUSE and OPEN buttons on the player, and "9" button on the remote control unit.	Lighting of display tube		Press STOP or OPEN button.
Dealer's lock	In STOP mode, press STOP button on the player, and POWER button on the remote control unit.	Dealer's lock The lock is switched ON or OFF. When dealer's lock is ON, it prohibits switching off of the secondary power and tray opening. When the lock is switched, its ON/OFF status is stored in EEPROM.	"LOCKED" sign appears when dealer's lock is switched on, or when secondary power key or tray opening key is pressed while the lock is on. "UNLOCKED" sign appears when dealer's lock is switched off.	Repeat the same operation.
Initializaiton	In STOP mode, press PAUSE, BWD-SKIP and OPEN buttons on the player for 3 seconds or longer.	Initialization User settings are cancelled and player is initialized to factory setting.	"INITIALIZED"	
Region display	In STOP mode, press PAUSE and OPEN buttons on the player, and "6" button on the remote control unit.	Region display	x_yy_zzz 	Cancelled automatically 5 seconds later.

Item	Player mode and button combination	Function	Display	Cancellation method
Timer 1 check	In STOP mode, press PAUSE and FWD-SKIP buttons on the player, and "5" button on the remote control unit.	Timer 1 check Laser operation timer Operation time is measured separately for DVD laser and CD laser.	T1_1234_5678 Shown to the left is DVD laser time, and to the right CD laser time. Time is shown in 4 digits of decimal notation in a unit of 10 hours. "0000" will follow "9999".	Cancelled automatically 5 seconds later.
Timer 1 reset	While displaying Timer 1 data, press STOP and FWD-SKIP buttons on the player, and "5" button on the remote control unit.	Timer 1 reset Laser operation timer Operation time of both DVD laser and CD laser is reset all at once.	T1_0000_0000	Cancelled automatically 5 seconds later.
Timer 2 check	In STOP mode, press PAUSE and FWD-SKIP buttons on the player, and "6" button on the remote control unit.	Timer 2 check Spindle motor operation timer	T2_1234 Time is shown in 4 digits of decimal notation in a unit of 10 hours. "0000" will follow "9999".	Cancelled automatically 5 seconds later.
Timer 2 reset	While displaying Timer 2 data, press STOP and FWD-SKIP buttons on the player, and "6" button on the remote control unit.	Timer 2 reset Spindle motor operation timer	T2_0000	Cancelled automatically 5 seconds later.

3.3 Servo Process Flow

Specification of the servo process display in the starting flow



Starting flow	Range of the servo process numbers	Processing items	
		Number	Contents of each process
START			
Initial setting Tray control	00	00	Each initial setting
TRV initial movement	01	01	TRV initial movement
Disc detection	02~08	02	Initial setting in FE system
		05	Detecting LD ON HALF
		08	Detecting CD LD ON
Disc type distinction	02~08	02	Initial setting in FE system
Focus servo	10~13	12	Focus ON
		13	FBAL adjustment
Tracking servo	14~15	15	Tracking ON
Gain learning	17	17	Gain adjustment in ADSC focus system
ID read	18~1A	19	DBAL/equalizer adjustment
		1A	ID read

3.4 Servo Process Display Mode

In starting operation of the player, a number is allotted to each servo process so that the operation of each step can be seen. The relation between the process and the displayed number are as follows:

Number allotment to the servo process

Process classification	Each processing item	Description	Process number
Initial start process	Initial start	The process starts after the tray is loaded. (The state is changed to "READY" or "PREPARE".)	0~40
	Secondary learning	Servos for the DVD-DL 1st layer and the CD-DA double speed are learned in this step.	50~7F
Restart process	Restart	When a user operates in the "READY" state, each servo is turned on.	80~9F
Seek process	Seek	The optical pickup is moved to the disc destination in this process.	A0~BF
Repair process	Recover		
	(Error check)	An error is searched in the PLAY/SEEK state.	C1~C3
	(Attention)	An error is recovered following the attention error interrupt from the S-ODC.	C4~C6
	(Q code read)	If any Q code is improperly read, reset and retry.	C7~C9
Stop process	Stop	A servo is controlled in response to the user's operation to stop the disc completely.	F0~FF

3.5 ADSC Internal Ram Data Display

The servo learning value in the RAM data inside the servo processor ADSC is displayed.

The value is useful for the servo operation/disc quality judge including the OPU.

The concrete contents are shown below:

Address

Contents of display

4B4	Focus gain learning value for DVD-S, DVD-D(L0), CD, and VCD
4BC	Focus gain learning value for DVD-D(L1)
4B6	Focus balance learning value for DVD-S, DVD-D(L0), CD, and VCD
4BE	Focus balance learning value for DVD-D(L1)
4B5	Tracking gain value for DVD-S, DVD-D(L0), CD, and VCD
4BD	Tracking gain value for DVD-D(L1)
TB0	Tracking balance value for DVD-S, DVD-D(L0), CD, and VCD
TB1	Tracking balance value for DVD-D(L1)
DBD	DSL offset learning value for DVD-S and DVD-D
DBC	DSL offset learning value for CD and VCD
FC0	Equalizer FC value for DVD-S, DVD-D(L0), CD, and VCD
BT0	Equalizer BOOST value for DVD-S, DVD-D(L0), CD, and VCD
FC1	Equalizer FC value for DVD-D(L1)
BT1	Equalizer BOOST value for DVD-D(L1)

3.6 Sales demonstration lock function

This function prevents discs from being lost when the unit is used for sales demonstrations by disabling the disc eject function. "LOCKED" is displayed on the unit, and ordinary operation is disabled.

Setting

The sales demonstration lock is set by simultaneously pressing STOP button on the player and POWER button on the remote control unit.

Cancellation

The lock can be cancelled by the same procedure as used in setting. ("UNLOCKED" is displayed on cancellation. Disconnecting the power cable from power outlet does not cancel the lock.)

3.7 Service Precautions

3.7.1 Recovery after the DVD player is repaired

When an FROM or an EEPROM in and on the module P.C.B. has replaced, carry out the recovery disc processing to optimize the drive.

Playback the disc above to process the recovery automatically.

Recovery disc (Product number: RFKZD5TR001)

Note:

This unit requires no initialization process carried out after the traditional DVD players were repaired.

When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item of "Initialization" in 2.2 is carried out. Write down the contents of the setting before recovery processing, and reset the player.

3.7.2 Firmware version-up of the DVD player

The firmware of the DVD player may be renewed to improve the quality including operationability and playerbility to the substandard discs processing to optimize the drive.

The version-up disc has also a recovery function so that you don't need use the recovery disc again.

Note:

If the AC power supply is shut out during version-up due to a power failure, the version-up is improperly carried out.

In such a case, replace the FROM and carry out the version-up again.

The product number of the version-up disc will be noticed when it is supplied.

3.7.3 Initialization of DVD Player

Initialize the DVD player when replacing CPU and its peripheral parts, and Mother P.W.B., etc.

How to Initialize

Pressing the "STILL/PAUSE" + "SKIP REW" + "OPEN/CLOSE" buttons at once makes DVD player initialization (factory setting condition). "INITIALIZED" is indicated on the screen and "INITIALIZE" on the display of the main unit.

Note

When the initialization has been made, the contents of user setting is lost.

Therefore, memorize the contents of user setting prior to the initialization and re-set them again after the initialization.

3.7.4 Setting after Repair

After finishing the repair work, follow the steps below.

Setting Condition

At the power on state,

- 1) Press the "OPEN/CLOSE" button to close the tray.
- 2) Turn the power off.
- 3) Unplug the power cord from the wall outlet.

Note

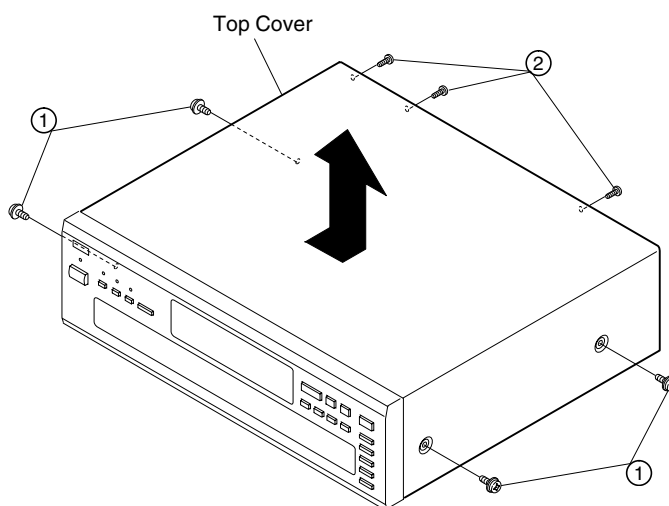
Do not close the tray manually after disconnecting the power cord from the wall outlet in tray open condition.

4. DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

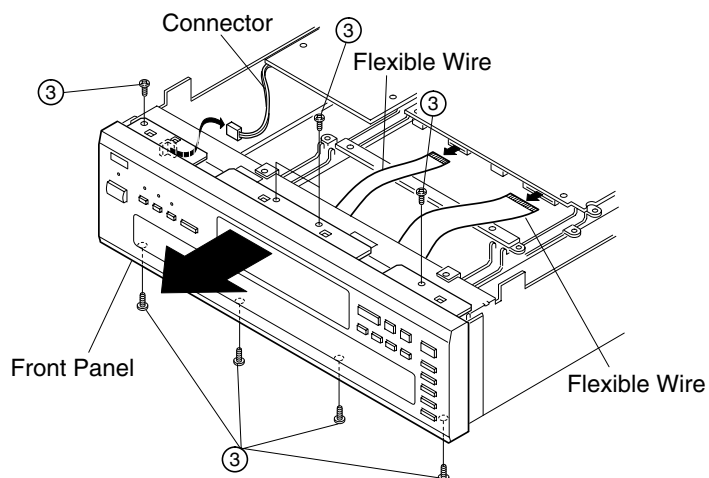
4.1 Top Cover

Remove 4 screws ① on both sides and 3 screws ② on the rear, then detach the Top Cover as shown to the arrow direction.



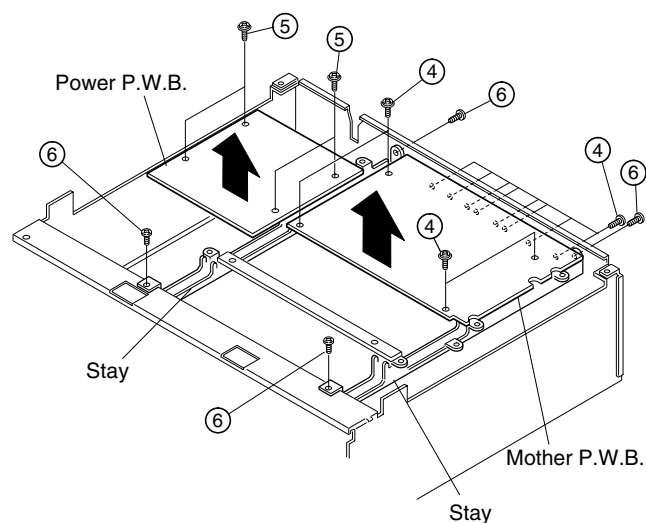
4.2 Front Panel

- (1) Remove 8 screws ③ from the top and bottom edges of the Front Panel.
- (2) Detach the Front Panel to the arrow direction, together with its Inner Panel.



4.3 Mother & Power P.W.B., Stay

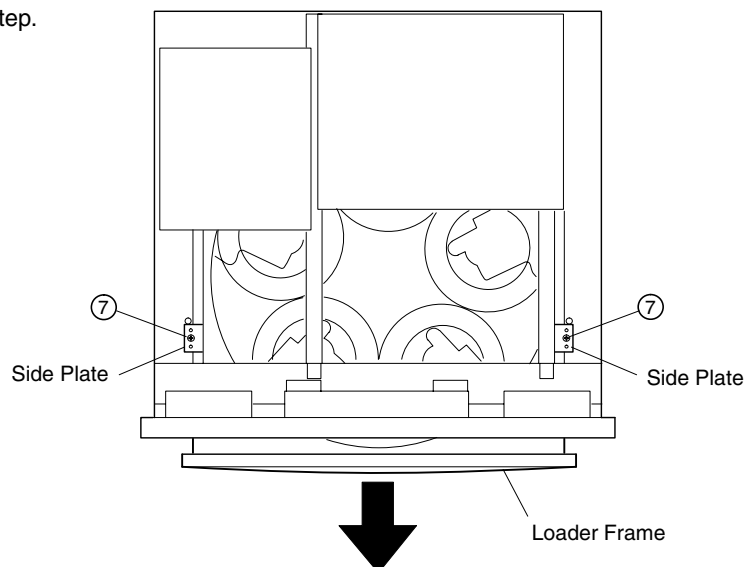
- (1) Remove 12 screws ④ to detach the Mother P.W.B.
- (2) Remove 4 screws ⑤, to detach the Power P.W.B.
- (3) Remove 4 screws ⑥ to detach 2 Stays.



4.4 Loader Frame Ass'y

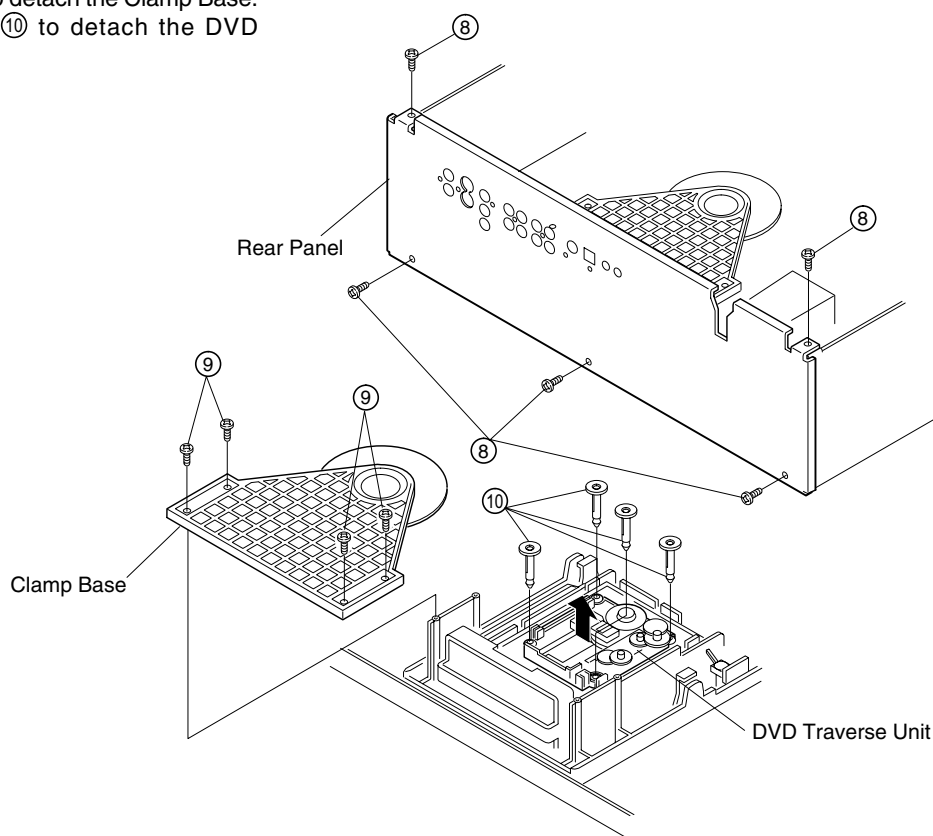
Remove 2 screws ⑦ to detach 2 Side Plates, then pull out the Loader Frame in the arrow direction.

Note: Draw out the Loader Frame 1 ~ 2 cm and turn the power off, before performing this step.



4.5 DVD Mecha.

- (1) Remove 5 screws ⑧ to detach the Rear Panel.
- (2) Remove 4 screws ⑨ to detach the Clamp Base.
- (3) Remove 4 fixed pin ⑩ to detach the DVD Traverse Unit.



5. ADJUSTMENT PROCEDURES

5.1. Service Tools and Equipment

Application	Name	Number
Tilt adjustment	DVD test disc	DVDT-S15 or DVDT-S01
	Hex wrench	
Inspection	Extension cable (module P.W.B. to mother P.W.B.)	JGS0098
	Extension cable (module P.W.B. to mother P.W.B.)	VUC8026
	Extension cable (module P.W.B. to mother P.W.B.)	RFKZ0097
	Extension cable (module P.W.B. to mother P.W.B.)	VUC8026
Others	Screw lock	RZZ0L01
	Grease	RFKXGAK152
	Oil	RFKXGA1280, JZS0648
Confirmation	CD test disc	PVCD-K06 or any other commercially available disc
	VCD test disc	PVCD-K06 or any other commercially available disc
	Recovery disc	RFKZD5TR001

5.2. Important points in adjustment

5.2.1. Important points in optical adjustment

- Before starting optical adjustment, be sure to take anti-static measures.
- Optical pickup tilt adjustment is needed after replacement of the following components.
 1. Optical pickup unit
 2. Spindle motor unit
 3. Optical pickup peripheral parts (such as rail)

Notes

Adjustment is generally unnecessary after replacing other parts of the traverse unit. However, make adjustment if there is a noticeable degradation in picture quality. Optical adjustments cannot be made inside the optical pickup. Adjustment is generally unnecessary after replacing the traverse unit.

5.2.2. Important points in electrical adjustment

- Follow the adjustment procedures described in this Manual.

5.3. Storing and Handling Test Discs

- Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.
 1. Do not place discs directly onto the workbench, etc., after use.
 2. Handle discs carefully in order to maintain their flatness. Place them into their case after use and store them vertically. Store discs in a cool place where they are not exposed to direct sunlight or air from air conditioners.
 3. Accurate adjustment will not be possible if the disc is warped when placed on a surface made of glass, etc. If this happens, use a new test disc to make optical adjustments.
 4. If adjustment is done using a warped disc, the adjustment will be incorrect and some discs will not be playable.

5.4. Optical adjustment

5.4.1. Optical pickup tilt adjustment

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw Tilt adjustment screw	T01 (inner periphery) play T43 (outer periphery) play	DVDR-S15 or DVDT-S01
Measuring equipment	Adjustment value		
None (Main unit display for servicing is used.)	Adjust to the minimum jitter value.		

5.4.1.1. Adjustment procedure

1. While pressing PAUSE and OPEN/CLOSE buttons on the main unit, press "5" on the remote control unit.
2. Confirm that "J_xxx_yyy_zz" is shown on the front display.

For your information:

"yyy" and "zz" shown to the right have nothing to do with the jitter value. "yyy" is the error counter, while "zz" is the focus drive value.

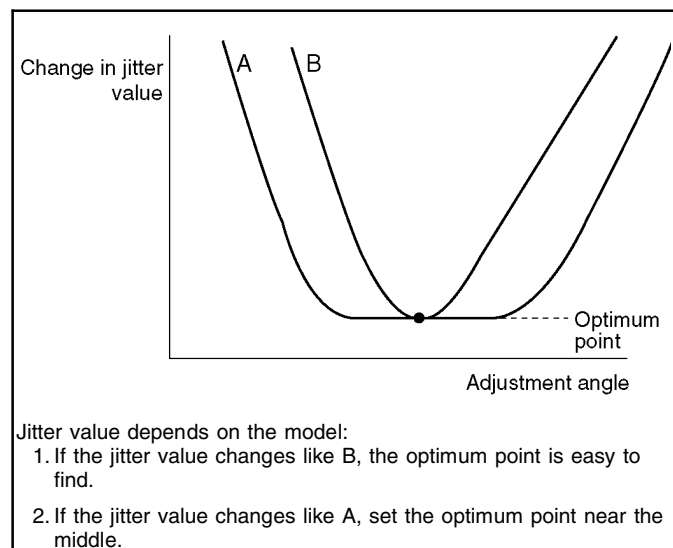
Note:

Jitter value appears on the front display.

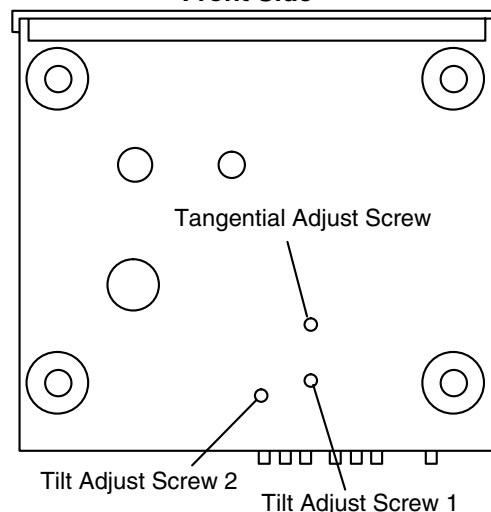
3. Play test disc T01 (inner periphery).
4. Adjust tangential adjustment screw so that the jitter value is minimized.
5. Play test disc T43 (outer periphery).
6. Adjust tilt adjustment screw 1 so that the jitter value is minimized.
7. Play test disc T43 (outer periphery).
8. Adjust tilt adjustment screw 2 so that the jitter value is minimized.
9. Repeat adjusting tilt adjustment screws 1 and 2 alternately until the jitter value is minimized.

5.4.1.2. Important points

1. Make tangential adjustment first, and then make tilt adjustment.
2. Repeat adjusting two or three times to find the optimum point.
3. Finish the procedure with tilt adjustment.



Front Side

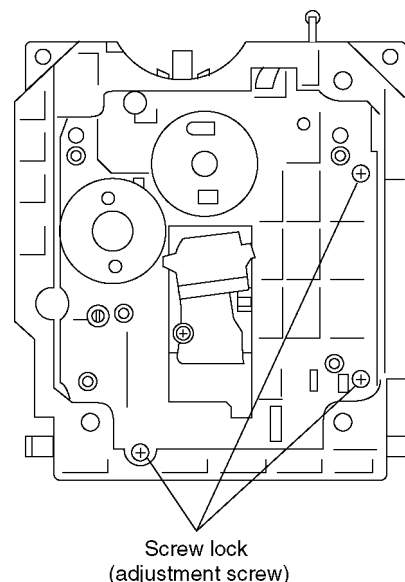


5.4.1.3. Check after adjustment

Play test disc or any other disc to make sure there is no picture degradation in the inner, middle and outer peripheries, and no audio skipping. After adjustment is finished, lock each adjustment screw in position using screw lock.

5.4.1.4. Procedure for screw lock

1. After adjustment, remove top cover, tray, clamper base and traverse unit in this sequence.
2. Lay the traverse unit upside down, and fix adjustment screw with screw lock.
3. After fixing, reassemble traverse unit, clamper base, tray and top cover.



5.5. Electrical Adjustment

Do this confirmation after replacing a P.W.B.

5.5.1. Video Output (Luminance Signal) Adjustment

Measurement Point	Adjustment Point	Mode	Disc
Video Output Pin Terminal GND: Chassis	VR3225	Playback (Color Bar)	DVDT-S20 (title 9)
Measuring Device		Adjustment Value	
Oscilloscope 500 mV/div, 10 μ s/div		1000 $\pm$ 20mV p-p	

For compatibility of video signal output.

1. Connect the monitor TV to the video output terminal and terminate at 75 Ohms.
2. Play back the color bar part title 9 (DVDT-S20) of the DVD Test Disc title.
3. Adjust the VR3225 so that the luminance signal output is as shown below.

Adjustment Value = 1000 $\pm$ 20 mV p-p

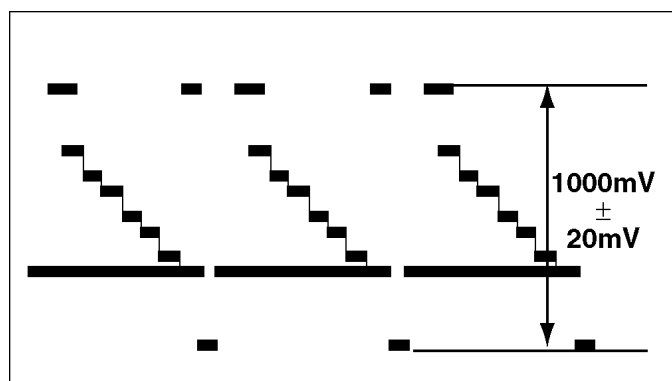


Fig. 5-5-1 Luminance Signal Output

5.5.2. Video Output (Chrominance Signal) Adjustment

Measurement Point	Adjustment Point	Mode	Disc
Video Output Pin Terminal GND: Chassis	VR3221	Playback (Color Bar)	DVDT-S20 (title 9)
Measuring Device		Adjustment Value	
Oscilloscope 500 mV/div, 10 μ s/div		624 $\pm$ 12mV p-p	

For compatibility of video signal output.

1. Connect the monitor TV to the video output terminal and terminate at 75 Ohms.
2. Play back the color bar part title 9 (DVDT-S20) of the DVD Test Disc title.
3. Adjust the VR3221 so that the chrominance (CYAN) signal output is as shown below.

Adjustment Value = 624 $\pm$ 12 mV p-p

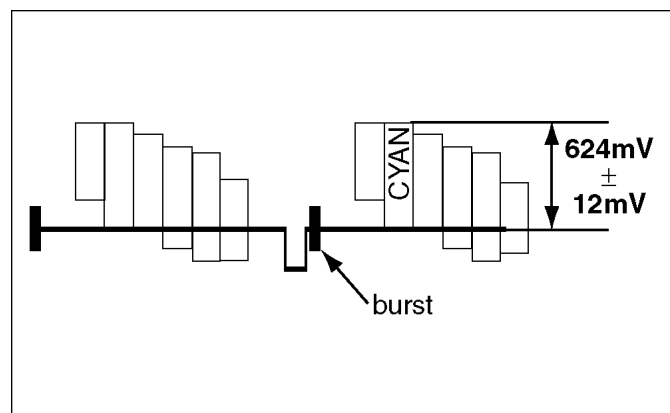


Fig. 5-5-2 Chrominance Signal Output

5.5.3. Video Output (CB Signal) Adjustment

Measurement Point	Adjustment Point	Mode	Disc
CB Output Pin Terminal	VR3201	Playback (Color Bar)	DVDT-S20 (title 9)
Measuring Device		Adjustment Value	
Oscilloscope 200 mV/div, 10 μ s/div		486 $\pm$ 10mV p-p	

NOTE:

CB/CR Output should be 75 Ω terminate.

For compatibility of video signal output.

1. Connect the monitor TV to the video output terminal and terminate at 75 Ohms.
2. Play back the color bar part title 9 (DVDT-S20) of the DVD Test Disc title.
3. Adjust the VR3201 so that the CB signal output is as shown below.

Adjustment Value = 486 $\pm$ 10 mV p-p

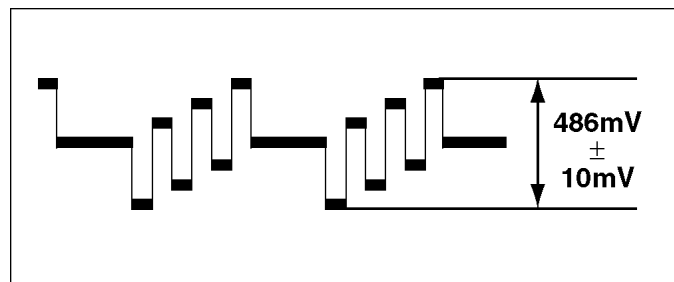


Fig. 5-5-3 CB Signal Output

5.5.4. Progressive Video Output (Y Signal) Adjustment

Measurement Point	Adjustment Point	Mode	Disc
Progressive Terminal GND: Chassis	VR3771	Playback (Color Bar)	DVDT-S20 (title 9)
Measuring Device		Adjustment Value	
Oscilloscope 200 mV/div, 5 μ s/div		1000 $\pm$ 20mV p-p	

NOTE:

Progressive Output should be 75 Ω terminate.

For compatibility of video signal output.

1. Connect the monitor TV to the Y (Progressive) output terminal and terminate at 75 Ohms.
2. Play back the color bar part title 9 (DVDT-S20) of the DVD Test Disc title.
3. Adjust the VR3771 so that the Y (Progressive) signal output is as shown below.

Adjustment Value = 1000 $\pm$ 20 mV p-p

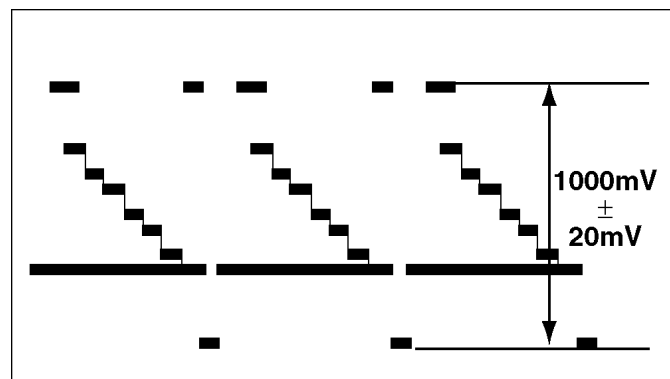


Fig. 5-5-4 Y Signal Output

5.5.5. Progressive Video Output (PB Signal) Adjustment

Measurement Point	Adjustment Point	Mode	Disc
Progressive Terminal	VR3751	Playback (Color Bar)	DVDT-S20 (title 9)
Measuring Device		Adjustment Value	
Oscilloscope 100 mV/div, 5 μ s/div		525 $\pm$ 10mV p-p	

NOTE:

Progressive Output should be 75 Ω terminate.

For compatibility of video signal output.

1. Connect the monitor TV to the video output terminal and terminate at 75 Ohms.
2. Play back the color bar part title 9 (DVDT-S20) of the DVD Test Disc title.

3. Adjust the VR3751 so that the PB signal output is as shown below.

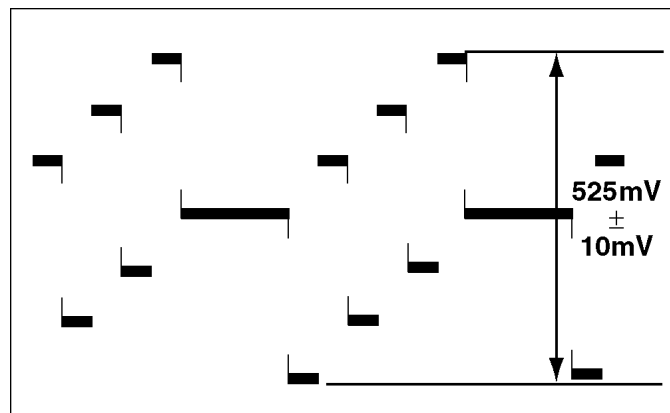
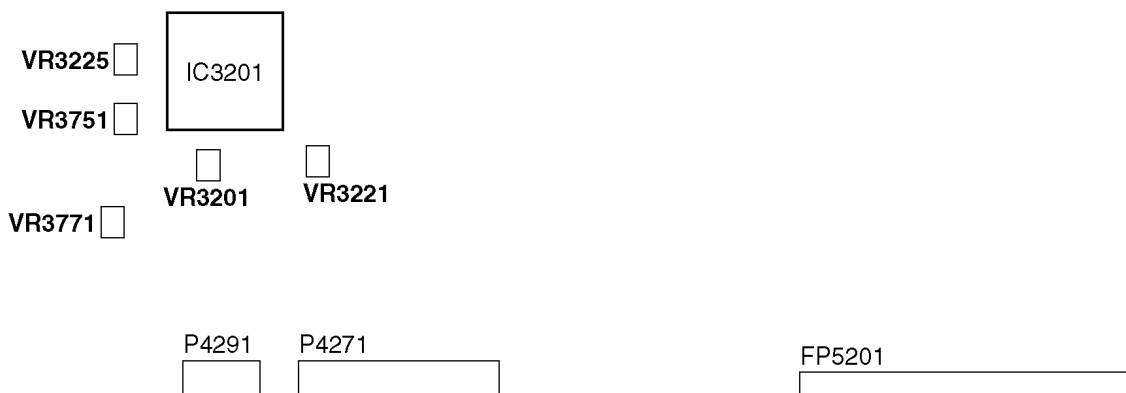


Fig. 5-5-5 PB Signal Output

5.5.6. Test Point & Controls Location

MODULE P.W.B. (COMPONENT SIDE)



6. ABBREVIATIONS

INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS		DSC	DIGITAL SERVO CONTROLLER
	ACLK	AUDIO CLOCK		DSLIF	DATA SLICE LOOP FILTER
	AD0~UP	ADDRESS BUS		DVD	DIGITAL VIDEO DISC
	ADATA	AUDIO PES PACKET DATA	E	EC	ERROR TORQUE CONTROL
	ALE	ADDRESS LATCH ENABLE		ECR	ERROR TORQUE CONTROL REFERENCE
	AMUTE	AUDIO MUTE		ENCSEL	ENCODER SELECT
	AREQ	AUDIO PES PACKET REQUEST		ETMCLK	EXTERNAL M CLOCK (81MHz/40.5MHz)
	ARF	AUDIO RF		ETSCLK	EXTERNAL S CLOCK (54MHz)
	ASI	SERVO AMP INVERTED INPUT	F	FBAL	FOCUS BALANCE
	ASO	SERVO AMP OUTPUT		FCLK	FRAME CLOCK
B	ASYN	AUDIO WORD DISTINCTION SYNC		FE	FOCUS ERROR
	BCK	BIT CLOCK (PCM)		FFI	FOCUS ERROR AMP INVERTED INPUT
	BCKIN	BIT CLOCK INPUT		FEO	FOCUS ERROR AMP OUTPUT
	BDO	BLACK DROP OUT		FG	FREQUENCY GENERATOR
	BLKCK	SUB CODE BLOCK CLOCK		FSC	FREQUENCY SUB CARRIER
	BOTTOM	CAP. FOR BOTTOM HOLD		FSCK	FS (384 OVER SAMPLING) CLOCK
	BYP	BYPATH			
	BYTCK	BYTE CLOCK			
C	CAV	CONSTANT AUGULAS VELOCITY	G	GND	COMMON GROUNDING (EARTH)
	CBDO	CAP. BLACK DROP OUT			
	CD	COMPACT DISC	H	HA0~UP	HOST ADDRESS
	CDSCK	CD SERIAL DATA CLOCK		HD0~UP	HOST DATA
	CDSRDATA	CD SERIAL DATA		HINT	HOST INTERRUPT
	CDRF	CD RF (EFM) SIGNAL		HRXW	HOST READ/WRITE
	CDV	COMPACT DISC-VIDEO	I	IECOUT	IEC958 FORMAT DATA OUTPUT
	CHNDATA	CHANNEL DATA		IPFLAG	INTERPOLATION FLAG
	CKSL	SYSTEM CLOCK SELECT		IREF	I (CURRENT) REFERENCE
	CLV	CONSTANT LINEAR VELOCITY	L	ISEL	INTERFACE MODE SELECT
	COFTR	CAP. OFF TRACK		LDON	LASER DIODE CONTROL
	CPA	CPU ADDRESS		LPC	LASER POWER CONTROL
	CPCS	CPU CHIP SELECT	M	LRCK	L CH/R CH DISTINCTION CLOCK
	CPDT	CPU DATA		MA0~UP	MEMORY ADDRESS
	CPUADR	CPU ADDRESS LATCH		MCK	MEMORY CLOCK
	CPUADT	CPU ADDRESS DATA BUS		MCKI	MEMORY CLOCK INPUT
	CPUIRQ	CPU INTERRUPT REQUEST		MCLK	MEMORY SERIAL COMMAND CLOCK
	CPRD	CPU READ ENABLE		MDATA	MEMORY SERIAL COMMAND DATA
	CPWR	CPU WRITE ENABLE		MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	CS	CHIP SELECT		MDQM	MEMORY DATA I/O MASK
	CSYNIN	COMPOSITE SYNC IN		MLD	MEMORY SERIAL COMMAND LOAD
	CSYNOUT	COMPOSITE SYNC OUT		MPEG	MOVING PICTURE EXPERTS GROUP
D	DACCK	D/A CONVERTER CLOCK	O	ODC	OPTICAL DISC CONTROLLER
	DEEMP	DEEMPHASIS BIT ON/OFF		OFTR	OFF TRACKING
	DEMPH	DEEMPHASIS SWITCHING		OSCI	OSCILLATOR INPUT
	DIG0~UP	FL DIGIT OUTPUT		OSCO	OSCILLATOR OUTPUT
	DIN	DATA INPUT		OSD	ON SCREEN DISPLAY
	DMSRCK	DM SERIAL DATA READ CLOCK	P	P1~UP	PORT
	DMUTE	DIGITAL MUTE CONTROL		PCD	CD TRACKING PHASE DIFFERENCE
	DO	DROP OUT		PCK	PLL CLOCK
	DOUT0~UP	DATA OUTPUT			
	DRF	DATA SLICE RF (BIAS)			
	DRPOUT	DROP OUT SIGNAL			
	DREQ	DATA REQUEST			
	DRESP	DATA RESPONSE			

INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO		ABBREVIATIONS
	PDVD	DVD TRACKING PHASE DIFFERENCE		TRON	TRACKING ON
	PEAK	CAP. FOR PEAK HOLD		TRSON	TRAVERSE SERVO ON
R	PLLCLK	CHANNEL PLL CLOCK	V	VBANK	V BLANKING
	PLLOK	PLL LOCK		VCC	COLLECTOR POWER SUPPLY VOLTAGE
	PWMCTL	PWM OUTPUT CONTROL		VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	PWMDA	PULSE WAVE MOTOR DRIVE A		VDD	DRAIN POWER SUPPLY VOLTAGE
	PWMOA, B	PULSE WAVE MOTOR OUT A, B		VFB	VIDEO FEED BACK
				VREF	VOLTAGE REFERENCE
				VSS	SOURCE POWER SUPPLY VOLTAGE
	RE	READ ENABLE	W	WAIT	BUS CYCLE WAIT
	RFENV	RF ENVELOPE		WDCK	WORD CLOCK
	RFO	RF PHASE DIFFERENCE OUTPUT		WEH	WRITE ENABLE HIGH
	RS	(CD-ROM) REGISTER SELECT		WSR	WORD SELECT RECEIVER
	RSEL	RF POLARITY SELECT	X	X	X'TAL
	RST	RESET		XALE	X ADDRESS LATCH ENABLE
	RSV	RESERVE		XAREQ	X AUDIO DATA REQUEST
				XCDROM	X CD ROM CHIP SELECT
S	SBI0, 1	SERIAL DATA INPUT		XCS	X CHIP SELECT
	SBO0	SERIAL DATA OUTPUT		XCSYNC	X COMPOSITE SYNC
	SBT0, 1	SERIAL CLOCK		XDS	X DATA STROBE
	SCK	SERIAL DATA CLOCK		XHSYNCO	X HORIZONTAL SYNC OUTPUT
	SCKR	AUDIO SERIAL CLOCK RECEIVER		XHINT	XH INTERRUPT REQUEST
	SCL	SERIAL CLOCK		XI	X'TAL OSCILLATOR INPUT
	SCLK	SERIAL CLOCK		XINT	X INTERRUPT
	SDA	SERIAL DATA		XMW	X MEMORY WRITE ENABLE
	SEG0-UP	FL SEGMENT OUTPUT		XO	X'TAL OSCILLATOR OUTPUT
	SELCLK	SELECT CLOCK		XRE	X READ ENABLE
	SEN	SERIAL PORT ENABLE		XSRMCE	X SRAM CHIP ENABLE
	SIN1, 2	SERIAL DATA IN		XSRMOE	X SRAM OUTPUT ENABLE
	SOUT1, 2	SERIAL DATA OUT		XSRMWE	X SRAM WRITE ENABLE
	SPDI	SERIAL PORT DATA INPUT		XVCS	X V-DEC CHIP SELECT
	SPDO	SERIAL PORT DATA OUTPUT		XVDS	X V-DEC CONTROL BUS STROBE
	SPEN	SERIAL PORT R/W ENABLE		XVSYNCO	X VERTICAL SYNC OUTPUT
	SPRCLK	SERIAL PORT READ CLOCK			
	SPWCLK	SERIAL PORT WRITE CLOCK			
	SQCK	SUB CODE Q CLOCK			
	SQCX	SUB CODE Q DATA READ CLOCK			
	SRDATA	SERIAL DATA			
	SRMADR	SRAM ADDRESS BUS			
	SRMDT0~7	SRAM DATA BUS 0~7			
	SS	START/STOP			
	STAT	STATUS			
	STCLK	STREAM DATA CLOCK			
	STD0~UP	STREAM DATA			
	STENABLE	STREAM DATA INPUT ENABLE			
	STSEL	STREAM DATA POLARITY SELECT			
	STVALID	STREAM DATA VALIDITY			
	SUBC	SUB CODE SERIAL			
	SBCK	SUB CODE CLOCK			
	SUBQ	SUB CODE Q DATA			
	SYSCLK	SYSTEM CLOCK			
T	TE	TRACKING ERROR			
	TIBAL	BALANCE CONTROL			
	TID	BALANCE OUTPUT 1			
	TIN	BALANCE INPUT			
	TIP	BALANCE INPUT			
	TIS	BALANCE OUTPUT 2			
	TPSN	OP AMP INPUT			
	TPSO	OP AMP OUTPUT			
	TPSP	OP AMP INVERTED INPUT			
	TRCRS	TRACK CROSS SIGNAL			

7. VOLTAGE CHART

Main P.W.B.

Ref No.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	3.3	3.3	0	3.3	3.3	0	0	1.9	2.3	2.2	2.2	2.3	2.4	2.3	2.2	2.4	1.8	0	1.8
PLAY	0	3.3	3.3	0	3.3	3.3	0	0	1.9	2.1	0	0	0	0	3.3	1.8	2.2	1.8	0	1.8
Ref No.	IC2001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.3	2.2	3.0	2.5	3.0	2.6	3.3	3.3	3.3	3.3	0	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2
PLAY	0	1.9	2.0	2.7	2.2	2.6	2.6	1.7	2.5	1.4	3.3	0	3.3	3.3	3.3	3.3	2.8	2.8	2.7	2.7
Ref No.	IC2001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	3.2	3.2	3.2	2.0	1.5	0	3.2	0	3.3	3.3	3.3	0	0	0	3.3	3.3	3.3	1.8	0	0
PLAY	2.6	2.7	2.6	2.6	1.5	0	3.2	0	3.3	3.3	0	0	0	0	3.3	0	3.3	1.8	0	0
Ref No.	IC2001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	3.2	3.3	0	0	1.8	2.0	1.6	1.6	3.3	0	0	0	3.3	3.3	0	1.8	0	3.3	1.5	1.5
PLAY	3.2	3.3	3.3	0	2.1	1.0	1.6	2.2	1.3	3.3	3.3	0	3.3	3.3	0	1.8	0	3.3	1.5	1.5
Ref No.	IC2001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	0	0	0	1.6	0	1.7	1.7	3.3	0	1.6	1.6	0	0	0	1.7	1.6	1.4	1.6	3.3	1.4
PLAY	0	0	0	1.6	0	1.7	1.7	3.3	0	1.6	1.6	0	0	0	1.7	1.6	1.4	1.6	3.3	1.4
Ref No.	IC2001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	1.4	0	1.5	2.1	2.8	1.7	1.6	1.5	3.3	1.6	1.6	2.7	0	1.7	1.7	3.3	1.7	1.6	1.7	1.7
PLAY	1.4	0	1.5	2.1	2.8	1.7	1.6	1.5	3.3	1.6	1.6	2.2	0	1.7	1.7	3.3	1.7	1.6	2.1	2.5
Ref No.	IC2001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
STOP	2.3	1.7	1.7	0	3.3	0	1.2	1.3	1.3	1.3	3.3	3.3	0	3.3	3.3	1.7	3.3	0	3.3	0
PLAY	2.1	1.7	1.7	0	3.3	0	1.4	1.3	1.3	1.3	3.3	3.3	0	3.3	3.3	1.7	3.3	0	3.3	0
Ref No.	IC2001																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
STOP	0	3.3	3.3	0	0	1.6	3.3	3.3	0	0	3.3	1.8	0	0	0	3.3	0	0	0	3.3
PLAY	0.4	3.3	3.3	0	0	1.6	3.3	3.3	0.9	0	0.6	1.8	0	0	0	3.3	0	1.0	0	0.9
Ref No.	IC2001																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176				
STOP	0	3.3	0	0	0	3.3	0	3.3	3.3	0	0	0	0	3.3	3.3	3.3				
PLAY	0	3.3	0	0.8	0	0.7	0	1.0	3.3	0	0	0.8	0	3.3	3.3	3.3				
Ref No.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	1.7	1.7	1.7	1.7	1.7	0.1	0	5.0	0	0	2.9	2.9	2.9	2.9	4.4	4.4	4.4	4.4	0	3.1
PLAY	1.7	1.7	1.7	1.7	1.7	0.1	0	5.0	3.3	0	2.9	2.9	2.9	2.9	3.6	4.4	5.9	2.5	0	3.1
Ref No.	IC2501																			
MODE	21	22	23	24	25	26	27	28												
STOP	9.2	9.2	1.7	1.6	1.6	1.7	0	3.1												
PLAY	9.2	9.2	1.9	1.6	1.6	1.7	3.3	3.1												
Ref No.	IC2502																			
MODE	1	2	3	4	5															
STOP	1.7	1.7	0	0	4.9															
PLAY	1.7	1.7	0	0	4.9															

Ref No.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.3	0	1.2	0.1	1.8	1.2	0.1	1.0	0	1.2	3.3	3.4	3.3	0	1.7	1.8	3.3	3.4	2.3	0
PLAY	3.3	0	1.6	0.1	1.8	1.7	0.1	1.6	0	1.6	3.3	3.4	3.3	0	0	1.8	2.8	3.4	0	0
Ref No.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	3.3	0	3.4	1.4	3.3	3.3	0	1.5	0	2.5	3.5	2.2	2.3	2.4	1.8	2.3	2.3	3.3
PLAY	3.3	3.3	3.1	3.3	3.4	1.4	0.2	2.6	1.7	3.3	0	2.1	2.7	2.2	1.9	2.2	1.8	1.9	1.8	2.1
Ref No.	IC3001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	3.3	3.3	0	2.2	2.3	2.1	2.9	3.3	3.1	3.1	3.1	3.1	0	3.1	3.1	3.1	1.8	3.1	3.2	3.1
PLAY	1.8	1.7	0	2.0	2.1	1.9	2.8	3.3	2.6	2.8	2.8	2.8	0	2.8	2.8	2.8	1.8	2.6	2.6	2.7
Ref No.	IC3001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	3.4	3.1	3.1	0	3.2	3.1	3.2	3.4	0	1.7	3.4	0	0	3.3	0	3.3	1.8	3.3	3.3	3.3
PLAY	3.4	2.8	2.8	0	2.9	2.9	2.9	3.3	0.5	1.7	3.4	0	0	0.8	0.8	0.8	1.6	1.8	1.1	1.0
Ref No.	IC3001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	3.3	0	1.7	0	3.4	1.6	1.7	1.7	0	0	0	0	3.4	0	1.6	1.7	1.8	0	1.8	1.5
PLAY	0.8	0	1.7	0.8	3.3	1.8	1.7	1.7	0	0.8	0	0	3.4	0	0	1.7	1.8	0	1.8	1.5
Ref No.	IC3001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	3.4	0	0	0	3.4	1.6	1.8	0	3.3	0	0	3.3	0	0	2.9	0	3.4	0	0.1	3.0
PLAY	3.4	0	0.2	0	3.4	1.6	1.8	0	3.3	0	0	3.3	0	0	2.9	0	3.3	0	0	3.3
Ref No.	IC3001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
STOP	0	3.4	0	0.1	3.4	0	0	0	0	3.3	0	0	0	0	0	1.6	0	0	0	0
PLAY	0	0	0	0.1	3.4	0	3.3	0	0	2.9	0	0	0	0	0	1.6	0	0	0	0
Ref No.	IC3001																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
STOP	3.4	0	0	3.3	3.1	1.8	1.3	0.6	0.7	0.7	0	2.0	0.3	0.3	1.3	0	0	2.8	2.9	3.3
PLAY	3.4	0	0	3.3	3.1	1.8	1.3	1.2	1.3	1.3	0	1.6	1.1	1.5	1.2	3.3	0	2.2	2.9	3.3
Ref No.	IC3001																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
STOP	2.6	2.8	0	2.7	2.7	3.3	3.0	2.8	0	2.8	3.1	3.3	2.7	1.8	2.9	0	2.8	2.7	3.3	2.9
PLAY	3.1	2.8	0	0	2.7	3.3	3.0	-	0	-	2.6	3.3	0	1.8	2.6	0	2.8	-	3.3	2.6
Ref No.	IC3001																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
STOP	2.8	0	1.7	1.8	1.7	0	3.4	3.4	2.6	0.1	1.8	2.5	3.3	0	3.2	3.2	3.3	1.5	3.0	0
PLAY	2.8	0	1.7	1.8	1.7	0	3.4	3.4	2.2	0.2	1.8	1.9	3.3	0	3.2	3.2	3.3	1.3	3.0	0
Ref No.	IC3001																			
MODE	201	202	203	204	205	206	207	208												
STOP	0	1.8	1.2	0	0	1.1	0	0												
PLAY	0	1.8	1.4	0	0	3.3	0	1.5	0											
Ref No.	IC3061																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.3	2.8	0	2.7	2.8	0	2.7	3.0	3.3	2.7	2.8	0	2.8	3.3	2.5	0	3.2	3.3	3.1	1.0
PLAY	3.3	2.6	3.1	2.7	2.8	0	2.9	3.0	3.3	2.9	2.8	0	2.8	3.3	2.5	3.3	3.2	3.3	3.1	0
Ref No.	IC3061																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	0	1.1	3.3	0	1.0	1.1	1.1	1.1	0	0	1.4	0	3.3	1.7	2.4	0
PLAY	0.3	0	0	0	0.3	1.6	3.3	0	1.4	1.6	1.6	1.4	0	0	1.4	0	3.3	1.7	1.9	0
Ref No.	IC3061																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
STOP	0	2.9	3.3	2.6	2.6	0	2.6	3.0	3.3	2.4	2.4	0	2.9	0						
PLAY	0	2.9	3.3	2.8	2.7	0	2.8	2.8	3.3	2.9	2.9	0	2.2	0						
Ref No.	IC3091																			
MODE	1	2	3	4	5	6	7	8												
STOP	1.6	1.9	1.9	0	1.5	1.5	2.1	4.8												
PLAY	1.6	1.9	1.9	0	1.5	1.5	2.1	4.8												
Ref No.	IC3201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	1.4	0.6	0.7	0.7	2.0	0.3	0.3	1.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3
PLAY	1.4	1.3	1.3	1.1	1.6	1.2	1.6	1.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3
Ref No.	IC3201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	3.3	0	0	0	3.0	3.0	0	0	1.3	1.6	0.5	0.4	3.3	0	0	0.8	0.4	3.3	0	0
PLAY	3.3	0	0	0	3.3	0	1.6	0	3.3	3.0	3.0	0	0	1.3	0.5	0.5	0.6	3.3	0	0
Ref No.	IC3201																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0.8	0	3.3	0.8	0	1.6	1.3	1.3	3.2	3.1	3.3	0	0	3.3	0	0	0	0	0	0
PLAY	0.8	0	3.3	0.8	0	1.6	1.3	1.3	3.2	3.1	3.3	0	0	3.3	0	0	0	0	0	0
Ref No.	IC3201																			
MODE	61	62	63	64																
STOP	0	0	3.3	0																
PLAY	0	0	3.3	0																
Ref No.	IC3251																			
MODE	1	2	3																	

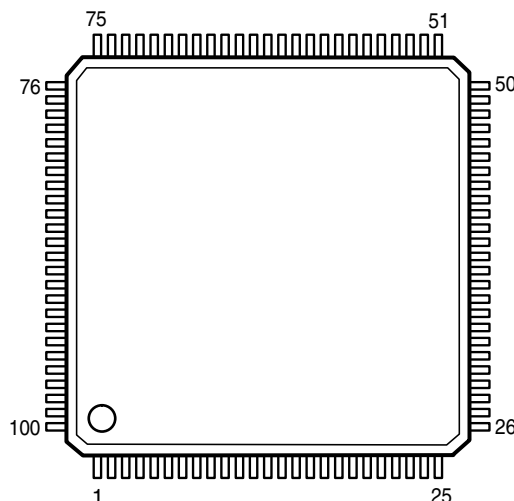
Ref No.	IC4231																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	1.7	0	1.6	1.9	1.5	3.6	0	4.7	4.7	0	2.3	0	2.4	0	4.7	2.4	0	2.3	0	4.7
PLAY	1.7	0	1.6	1.9	1.5	3.6	0	4.7	4.7	0	2.3	0	2.4	0	4.7	2.4	0	2.3	0	4.7
Ref No.	IC4231																			
MODE	21	22	23	24	25	26	27	28												
STOP	0	3.2	0	4.7	4.7	3.3	2.8	3.3												
PLAY	0	3.2	0	4.7	4.7	3.3	2.8	3.3												
Ref No.	IC4241																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	1.7	0	1.6	1.9	1.5	3.6	0	4.7	4.7	0	2.3	0	2.4	0	4.7	2.4	0	2.3	0	4.7
PLAY	1.7	0	1.6	1.9	1.5	3.6	0	4.7	4.7	0	2.3	0	2.4	0	4.7	2.4	0	2.3	0	4.7
Ref No.	IC4241																			
MODE	21	22	23	24	25	26	27	28												
STOP	0	3.2	0	4.7	4.7	3.3	2.8	3.3												
PLAY	0	3.2	0	4.7	4.7	3.3	2.8	3.3												
Ref No.	IC4261																			
MODE	1	2	3	4	5	6	7	8												
STOP	0	0	0	0	0	0	0	5.0												
PLAY	4.9	0	4.9	0	0	4.9	4.9	4.9												
Ref No.	IC5201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	4.4	0	4.4	0	1.7	1.7	1.7	3.3	0	3.2	3.3	0	0	1.2	1.7	1.7	1.7	1.7	1.7
PLAY	0.5	3.2	0	4.4	0	1.7	1.7	2.0	3.3	0	3.2	3.3	0	0	1.2	1.7	1.7	1.7	1.7	2.1
Ref No.	IC5201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	1.7	1.7	2.7	0	1.7	0	2.2	4.8	1.7	1.8	1.8	2.1	0	2.1	1.5	3.3	1.2	0	3.3	0
PLAY	1.7	1.7	2.7	0	1.7	0	2.2	4.8	1.7	1.8	1.8	2.1	0	2.1	1.5	3.3	1.2	0	0	0
Ref No.	IC5201																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.7	1.6	1.6	1.1	1.7	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.3	4.8	2.2	2.2	2.2	2.2	2.2
PLAY	2.5	1.4	1.8	2.2	1.9	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.3	4.8	2.2	2.2	2.2	2.2	2.2
Ref No.	IC5201																			
MODE	61	62	63	64																
STOP	0	2.2	2.2	0																
PLAY	0	2.2	2.2	0																
Ref No.	IC5262																			
MODE	1	2	3	4	5	6	7	8												
STOP	2.2	2.2	2.2	0	2.2	2.2	2.2	4.9												
PLAY	2.2	2.2	2.2	0	2.2	2.2	2.2	4.9												
Ref No.	IC5263																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	1.7	2.2	2.2	2.2	0	0	0	3.3	0	0.2	1.1	1.1	1.7	4.9	4.9				
PLAY	0	0	0	0	0	0	0	0	3.3	0	0	2.2	0.1	2.2	2.0	4.9				
Ref No.	IC5266										IC5267									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	1.7	4.2	0	0	1.1	0	0	4.8			1.7	0	0	0	1.0	0	0	4.9		
PLAY	0	0	0	0	0	0	0	4.8			1.9	1.8	0	0	0	0	0	0		
Ref No.	IC6201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.3	3.1	3.3	3.3	3.3	3.3	3.3	3.0	3.3	0	0	3.3	2.1	3.0	3.0	2.8	3.3	3.3	0	0
PLAY	3.3	2.7	3.3	3.3	3.3	3.3	3.3	2.5	0	0	0	0.1	1.4	2.6	1.7	1.4	3.3	3.3	0	0
Ref No.	IC6201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	3.3	3.3	1.5	1.8	3.3	3.0	2.5	3.0	2.2	2.3	2.4	2.2	2.2	3.3	2.4	2.2	1.7	0	0	0
PLAY	3.3	3.3	1.5	1.8	3.3	2.6	2.1	0	0	1.9	2.4	1.9	2.0	3.3	2.2	1.8	1.7	2.0	2.1	1.9
Ref No.	IC6201																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0.5	0	0	0	0	0	0	3.3	3.3	3.3	3.3	2.1	3.3	3.3	3.3	0	0	3.3
PLAY	1.8	1.4	0.5	0	1.4	0	0	0	0	3.0	1.1	2.8	3.0	1.9	3.3	3.0	3.3	0	0	3.3
Ref No.	IC6201																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	0	0	0	3.3	3.3	3.3	0	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.1	0	0
PLAY	0	0	0	0	0	3.3	3.3	0	0	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.9	3.3	3.3
Ref No.	IC6201																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	3.3	3.3	3.3	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
PLAY	3.3	3.3	3.3	3.4	0.4	0.4	0	1.2	0.4	0.4	0.3	0	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Ref No.	IC6211										IC6221									
MODE	1	2	3	4	5						1	2	3	4	5	6	7	8		
STOP	0	0	0	3.3	3.3						0	0	0	0	0	3.0	3.0	0	3.3	
PLAY	0	0	0	3.3	3.3						0	0	0	0	0	3.0	3.0	0	3.3	
Ref No.	IC6301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	2.2	2.2	2.1	2.2	2.4	2.2	2.2	2.5	2.0	2.0	3.3	3.3	0	3.3	2.0	2.0	2.3	2.3	2.2	3.0
PLAY	2.2	2.0	1.7	1.7	2.1	1.9	1.9	2.2	1.4	1.4	2.6	3.3	0	3.3	3.3	1.3	1.7	1.9	2.2	2.7
Ref No.	IC6301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	2.5	3.0	2.8	3.0	3.0	3.0	0	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.0	3.3	3.0	3.1	3.0
PLAY	2.1	2.6	2.6	2.5	2.5	2.8	0	2.7	2.7	2.6	2.6	2.6	2.7	2.7	2.7	2.7	3.3	2.7		

Ref No. MODE STOP PLAY	IC6501						IC6511						IC6521							
	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5			
	0	1.6	0	1.6	3.2		0	1.6	0	1.6	3.2		0	1.6	0	1.6	3.2			
	0	1.6	0	1.6	3.2		0	1.6	0	1.6	3.2		0	1.6	0	1.6	3.2			
Ref No. MODE STOP PLAY	IC6531						IC6541													
	1	2	3	4	5		1	2	3	4	5	6	7	8						
	0	1.6	0	1.6	3.2		1.5	1.5	1.5	0	1.5	3.2	3.2	3.2						
	0	1.6	0	1.6	3.2		1.5	1.5	1.5	0	1.5	3.2	3.2	3.2						
Ref No. MODE STOP PLAY	IC6551								IC6561											
	1	2	3	4	5	6	7	8		1	2	3	4	5						
	1.5	1.5	1.6	0	1.4	0	0	3.2		0	1.6	0	1.6	3.2						
	1.5	1.5	1.6	0	1.4	0	0	3.2		0	1.6	0	1.6	3.2						
Ref No. MODE STOP PLAY	IC6571						IC6581						IC6591							
	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5			
	0	1.6	0	1.6	3.2		0	1.6	0	1.6	3.2		0	1.6	0	1.5	3.2			
	0	1.6	0	1.6	3.2		0	1.6	0	1.6	3.2		0	1.6	0	1.5	3.2			
Ref No. MODE STOP PLAY	IC6801																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	3.4	2.5	1.6	0	0	3.3	0	0	3.1	3.0	0	0	3.4	3.1	3.4	0	3.3	3.4	0	0
	3.4	2.5	1.5	0	0	3.3	0	0	2.7	2.7	0	0	0	2.7	3.4	0	3.3	3.4	0	0
Ref No. MODE STOP PLAY	IC6801																			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	3.1	0	3.1	3.4	3.4	3.1	3.2	2.1	3.3	2.5	3.2	1.7	1.6	0	3.3	3.4	3.3	0	3.3	3.4
	2.8	0	2.8	3.4	3.4	2.8	2.2	1.6	2.6	2.5	2.0	1.7	1.6	0	1.7	3.4	3.3	0	0.8	3.4
Ref No. MODE STOP PLAY	IC6801																			
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	3.1	3.3	3.3	0	0	3.4	3.3	0	0	0	1.6	0	1.7	1.7	0	2.5	0	0	3.4	1.6
	0.6	3.3	3.3	0	0	3.4	0.8	0	0	0	1.6	0	1.7	1.7	0	2.5	0	0	3.4	1.6
Ref No. MODE STOP PLAY	IC6801																			
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
	3.4	0	0	0	3.4	0	0	0	0	0	3.4	3.4	0	0	0	0	0	3.4	0	0
	3.4	0	0	0	3.4	0	0	0	0	0	3.4	0	3.3	3.3	0	0	0	3.4	1.4	0
Ref No. MODE STOP PLAY	Q2001				Q3221				Q3226				Q3231				Q3236			
	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
	1.5	2.1	4.8		1.1	0.5	0		1.0	0.4	0		1.5	0.8	0		1.5	0.8	0	
	1.5	2.1	4.8		1.1	0.5	0		1.2	0.6	0		1.5	0.8	0		1.5	0.8	0	
Ref No. MODE STOP PLAY	Q3761				Q3766				Q3771				Q5211				Q5215			
	E	C	B		E	C	B		E	C	B		1	2	3		1	2	3	
	1.3	0.6	0		1.3	0.6	0		1.2	0.4	0		4.3	4.8	1.7		4.4	4.8	1.1	
	1.3	0.6	0		1.3	0.6	0		1.4	0.6	0		3.2	3.8	2.2		4.4	4.8	1.1	
Ref No. MODE STOP PLAY	Q5261				Q5262				Q5263				Q5264				Q5271			
	E	C	B		E	C	B		E	C	B		E	C	B		1	2	3	
	1.1	1.8	4.8		1.1	1.8	4.8		1.6	0.9	0		0.5	1.1	4.8		0	3.3	0	
	1.1	1.8	4.8		1.1	1.8	4.8		1.8	1.1	0		0.3	1.1	4.8		0	3.3	0	
Ref No. MODE STOP PLAY	Q6215																			
	E	C	B																	
	0	0	3.2																	
	0	0	3.2																	
Ref No. MODE STOP PLAY	QR5221				QR5241															
	1	2	3		1	2	3													
	3.3	3.3	0.4		3.3	3.3	0													
	3.3	0.1	3.3		3.3	0.1	3.3													

8. SEMICONDUCTORS

● IC's

MN101C35DCA (IC601)

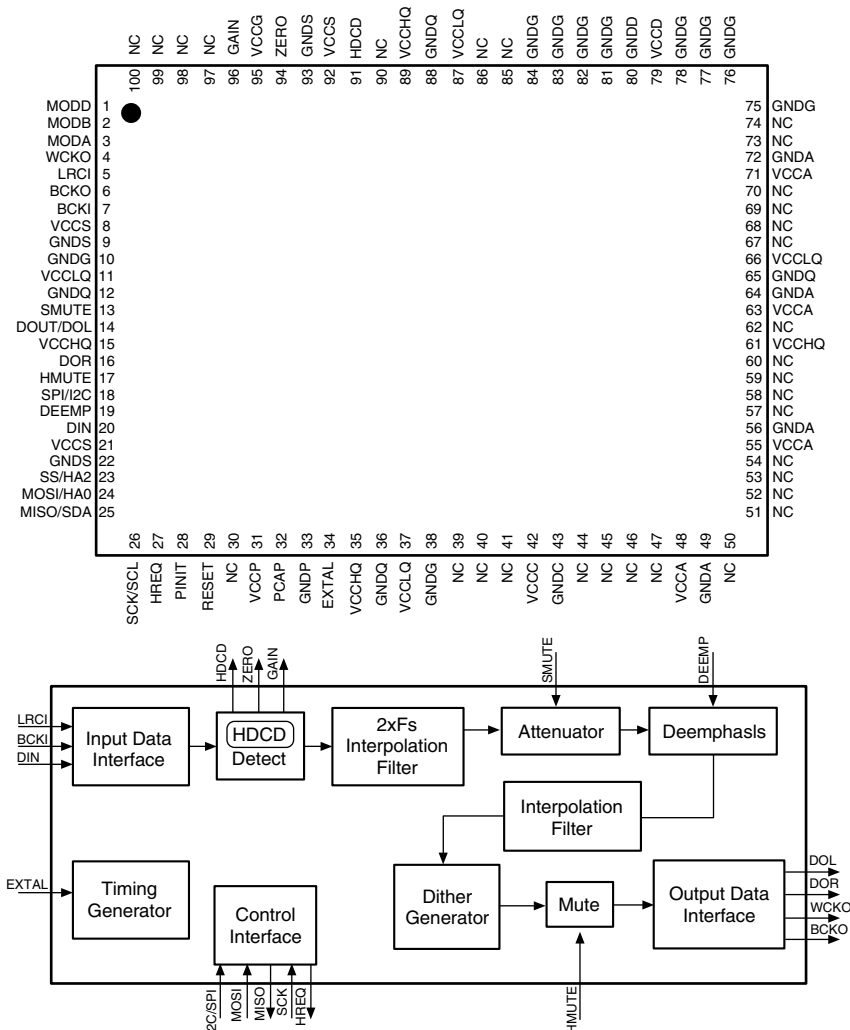


● MN101C35DCA Terminal Function

Pin No.	Pin Name	Symbol	I/O	Function
1	P00	ST-BY LED	O	ST-BY LED
2	P01	R-SPEED	O	Roulette rotation slow down, H: Down
3	P02	FL DRIVE	O	FL light off, L: Off
4	P03	CMD	O	Serial output
5	P04	STATUS	I	Serial input
6	P05	DSPCLK	I	Serial clock
7	P06	AUDIO ONLY LED	O	Audio Only LED
8	VDD	5V	—	+5V
9	OSC2	XI	O	Clock
10	OSC1	XO	I	Clock
11	VSS	GND	—	GND
12	XI	GND	I	Not used
13	XO	NC	O	Not used
14	MMOD	GND	I	Memory mode
15	VREF-	GND	I	A/D reference L
16	PA0	KEYIN0	I	A/D key input
17	PA1	KEYIN1	I	A/D key input
18	PA2	KEYIN2	I	A/D key input
19	PA3	SWOP	I	Tray open detect, L: Open
20	PA4	SWCL	I	Tray close detect, L: Close
21	PA5	PA5	I	Model set jumper 1
22	PA6	PA6	I	Model set jumper 2
23	PA7	PA7	I	Model set jumper 3
24	VREF+	5V	I	A/D reference H
25	P07	POWERMUT	O	Power mute, H: Mute
26	P27	/RST	I	Reset
27	P10	SWDN	I	Chucking down detect, L: Down
28	P11	SWUP	I	Chucking up detect, L: Up
29	P12	OPEN	O	Tray open, H: Open
30	P13	CLOSE	O	Tray close, H: Close
31	P14	ROULETTE-L	O	Roulette left-turn, H: Left-turn
32	P15	ROULETTE-R	O	Roulette right turn, H: Right turn
33	P20 (IRQ0)	REM	I	Remote-control input
34	P21	VSYNC	I	V-Sync (IRQ)
35	P22	W.REMIN	I	Wired remote-control input
36	P23	RFF	I	RFF
37	P24	R.SENS	I	Roulette sensor, H: detect slit
38	P25	D.SENS	I	Disc sensor, L: detect disc
39	P30	SDA	O	I ² C SDA
40	P31	POWER-OFF	O	Main power control, L: On

Pin No.	Pin Name	Symbol	I/O	Function
41	P32	SCV	O	I2C SCL
42	P50	D.F.2.I	I	D.F.2 detect
43	P51	DEEMPH	O	Emphasis control
44	P52	RSTN	O	Reset output for D.F.1, L: Reset
45	P53	CKDV1	O	Master clock switching sig.1
46	P54	CKDV2	O	Master clock switching sig.2
47	P67	G17	O	FL-DGT
48	P66	G16	O	FL-DGT
49	P65	G15	O	FL-DGT
50	P64	G14	O	FL-DGT
51	P63	G13	O	FL-DGT
52	P62	G12	O	FL-DGT
53	P61	G11	O	FL-DGT
54	P60	G10	O	FL-DGT
55	P41	G9	O	FL-DGT
56	P40	G8	O	FL-DGT
57	P77	G7	O	FL-DGT
58	P76	G6	O	FL-DGT
59	P75	G5	O	FL-DGT
60	P74	G4	O	FL-DGT
61	P73	G3	O	FL-DGT
62	P72	G2	O	FL-DGT
63	P71	G1	O	FL-DGT
64	P70	S1	O	FL-SEG
65	P87	S2	O	FL-SEG
66	P86	S3	O	FL-SEG
67	P85	S4	O	FL-SEG
68	P84	S5	O	FL-SEG
69	P83	S6	O	FL-SEG
70	P82	S7	O	FL-SEG
71	P81	S8	O	FL-SEG
72	P80	S8	O	FL-SEG
73	P97	S10	O	FL-SEG
74	P96	S11	O	FL-SEG
75	P95	S12	O	FL-SEG
76	P94	S13	O	FL-SEG
77	P93	S14	O	FL-SEG
78	P92	S15	O	FL-SEG
79	P91	S16	O	FL-SEG
80	P90	S17	O	FL-SEG
81	PC2	S18	O	FL-SEG
82	PC1	S19	O	FL-SEG
83	PC0	S20	O	FL-SEG
84	PB7	S21	O	FL-SEG
85	PB6	S22	O	FL-SEG
86	PB5	S23	O	FL-SEG
87	PB4	S24	O	FL-SEG
88	PB3	S25	O	FL-SEG
89	PB2	S26	O	FL-SEG
90	PB1	S27	O	FL-SEG
91	PB0	S28	O	FL-SEG
92	PD7	S29	O	FL-SEG
93	PD6	S30	O	FL-SEG
94	PD5	S31	O	FL-SEG
95	PD4	S32	O	FL-SEG
96	PD3	S33	O	FL-SEG
97	PD2	S34	O	FL-SEG
98	PD1	S35	O	FL-SEG
99	PD0	S36	O	FL-SEG
100	V _{PP}	-29V	I	-29V

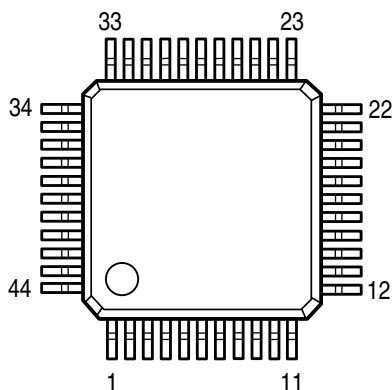
PMD200 (IC101)



● PMD200 Terminal Function

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	MODD	26	SCK/SCL	51	NC	76	GNDG
2	MODB	27	HREQ	52	NC	77	GNDG
3	MODA	28	PINIT	53	NC	78	GNDG
4	WCKO	29	RESET	54	NC	79	VCCD
5	LRCI	30	NC	55	VCCA	80	GNDD
6	BCKO	31	VCCP	56	GNDA	81	GNDG
7	BCKI	32	PCAP	57	NC	82	GNDG
8	VCCS	33	GNDP	58	NC	83	GNDG
9	GNDS	34	EXTAL	59	NC	84	GNDG
10	GNDG	35	VCCHQ	60	NC	85	NC
11	VCCLQ	36	GNDQ	61	VCCHQ	86	NC
12	GNDQ	37	VCCLQ	62	NC	87	VCCLQ
13	SMUTE	38	GNDG	63	VCCA	88	GNDQ
14	DOUT/DOL	39	NC	64	GNDA	89	VCCHQ
15	VCCHQ	40	NC	65	GNDQ	90	NC
16	DOR	41	NC	66	VCCLQ	91	HDCC
17	HMUTE	42	VCCC	67	NC	92	VCCS
18	SPI/I2C	43	GNDC	68	NC	93	GNDS
19	DEEMP	44	NC	69	NC	94	ZERO
20	DIN	45	NC	70	NC	95	VCCG
21	VCCS	46	NC	71	VCCA	96	GAIN
22	GNDS	47	NC	72	GNDA	97	NC
23	SS/HA2	48	VCCA	73	NC	98	NC
24	MOSI/HA0	49	GNDA	74	NC	99	NC
25	MISO/SDA	50	NC	75	GNDG	100	NC

DXP7001AF (IC201)



● DXP7001AF Terminal Function

Pin No.	Pin Name	I/O	Description													
1	MDT	Ip	Microcomputer Interface Data													
2	MCK	Ip	Microcomputer Interface Clock													
3	MLEN	Ip	Microcomputer Interface Latch Enable													
4	RSTN	Ip	Reset Terminal													
5	DLRCK	Ip	Audio Serial Input Data L/R Clock													
6	VSS	—	Ground Terminal													
7	DBCK	Ip	Audio Serial Input Bit Clock													
8	DDT	Ip	Audio Serial Input Data													
9	TEST2N	Ip	Test Setting Terminal 2 (Alpha-processor 1 Output shifts 12-bit.)													
10	TEST3N	Ip	Test Setting Terminal 3 (Alpha-processor 2 Output stops.)													
11	TEST4N	Ip	Test Setting Terminal 4 (Lambda-processor Output stops.)													
12	DFBCK	Ip	Lambda-processor Input Bit Clock													
13	DFWCK	Ip	Lambda-processor Input Word Clock													
14	DOL	Ip	Lambda-processor Input Data L-channel													
15	DOR	Ip	Lambda-processor Input Data R-channel													
16	LMOD	Ip	Lambda-processor Operation Mode Set													
17	OMOD1	Ip	Output Mode Setting Terminal 1													
18	OMOD2	Ip	Output Mode Setting Terminal 2 <table border="1"> <tr> <th colspan="2" rowspan="2"></th><th colspan="2">OMOD1</th></tr> <tr> <th>L</th><th>H</th></tr> <tr> <td rowspan="2">OMOD2</td><td>L</td><td>18bit Alternate</td><td>24bit Alternate</td></tr> <tr> <td>H</td><td>20bit Parallel</td><td>24bit Parallel</td></tr> </table>			OMOD1		L	H	OMOD2	L	18bit Alternate	24bit Alternate	H	20bit Parallel	24bit Parallel
		OMOD1														
		L	H													
OMOD2	L	18bit Alternate	24bit Alternate													
	H	20bit Parallel	24bit Parallel													
19	INVIN	Ip	Lambda-processor Input Reversed Polarity Terminal													
20	BCKO	O	Lambda-processor Output Bit Clock													
21	WCKO	O	Lambda-processor Output Word Clock													
22	WCKO2	O	Lambda-processor Output Word Clock 2 (for Canceling OFFSET on 1DAC)													

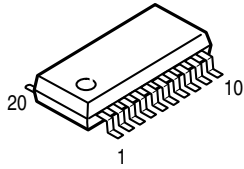
Pin No.	Pin Name	I/O	Description															
23	-P24L	O	-/Lambda-processor Lch 24 th bit Output *1, *2															
24	-P23L	O	-/Lambda-processor Lch 23 rd bit Output *1, *2															
25	-P22L	O	-/Lambda-processor Lch 22 nd bit Output *1, *2															
26	-P21L	O	-/Lambda-processor Lch 21 st bit Output *1															
27	-P20L	O	-/Lambda-processor Lch 20 th bit Output *1															
28	VDD	—	Power Supply Terminal															
29	SO2L/P19L	O	Lambda-processor Lch(-) Output /19 th bit Output *1															
30	SO1L	O	Lambda-processor Lch(+) Output															
31	SO1R	O	Lambda-processor Rch(+) Output															
32	SO2R/P19R	O	Lambda-processor Rch(-) Output/19 th bit Output *1															
33	-P20R	O	-/Lambda-processor Rch 20 th bit Output *1															
34	-P21R	O	-/Lambda-processor Rch 21 st bit Output *1, *2															
35	-P22R	O	-/Lambda-processor Rch 22 nd bit Output *1, *2															
36	-P23R	O	-/Lambda-processor Rch 23 rd bit Output *1, *2															
37	-P24R	O	-/Lambda-processor Rch 24 th bit Output *1, *2															
38	TEST1N	Ip	Test Terminal 1 (Alpha-processor 1 stops)															
39	CKSLN	Ip	System Clock Select (384fs system / 256fs system)															
40	CKDV1	Ip	System Clock Divider Select Terminal 1															
41	CKDV2	Ip	System Clock Divider Select Terminal 2 <table border="1"> <tr> <th colspan="2" rowspan="2"></th><th colspan="2">CKDV1</th></tr> <tr> <th>L</th><th>H</th></tr> <tr> <td rowspan="4">CKDV2</td><td rowspan="2">L</td><td>192fs (CKSLN=H)</td><td rowspan="2">768fs</td></tr> <tr> <td>256fs (CKSLN=H)</td></tr> <tr> <td rowspan="2">H</td><td>192fs (CKSLN=H)</td><td rowspan="2">384fs</td></tr> <tr> <td>256fs (CKSLN=H)</td></tr> </table>			CKDV1		L	H	CKDV2	L	192fs (CKSLN=H)	768fs	256fs (CKSLN=H)	H	192fs (CKSLN=H)	384fs	256fs (CKSLN=H)
		CKDV1																
		L	H															
CKDV2	L	192fs (CKSLN=H)	768fs															
		256fs (CKSLN=H)																
	H	192fs (CKSLN=H)	384fs															
		256fs (CKSLN=H)																
42	XTI	I	X-TAL Oscillator Input Terminal															
43	XTO	O	X-TAL Oscillator Output Terminal															
44	CKO	O	Clock Output Terminal															

(Ip = Input Terminal with pull-up)

*1: Outputted on OMOD1=L (18-bit Alternate Output or 20bit Parallel Output)

*2: Internal Signal is outputted on OMOD1=H (24-bit Alternate Output or 24bit Parallel Output) and one of TEST1N, TEST2N, TEST3N or TEST4N is set to L.

PCM1704U (IC301, 302)



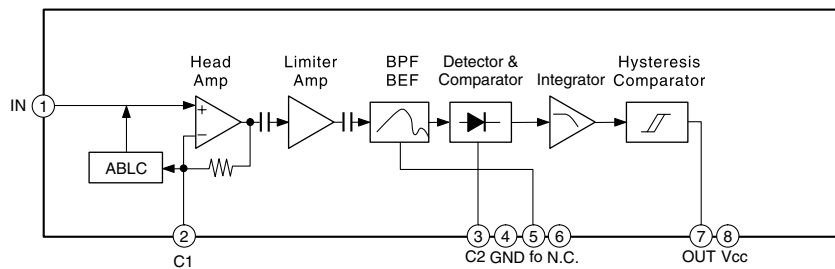
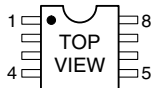
Pin No.	Pin Name	I/O	Description
1	DATA	IN	Serial Audio Input
2	BCLK	IN	Bit Clock Input for Serial Audio Data Input
3	NC	-	NC (1)
4	-V _{DD}	-	Digital Power Supply -5V
5	DGND	-	Digital GND
6	+V _{DD}	-	Digital Power Supply +5V
7	WCLK	IN	Data Latch Accept Input
8	NC	-	NC (1)
9	$\overline{20BIT}$	IN	INPUT Data Language Select (2)
10	$\overline{INVERT}$	IN	INPUT Data Polarity Select (2)
11	+V _{CC}	-	Analog Power Supply +5V
12	BPO DC	-	Bipolar Offset De-Coupling Capacitor
13	NC	-	NC (1)
14	I _{OUT}	OUT	Audio Signal Analog Current Output
15	AGND	-	Analog GND
16	AGND	-	Analog GND
17	SERVO DC	-	Servo Amp De-coupling Capacitor
18	NC	-	NC (1)
19	REF DC	-	Band Cap. Reference De-coupling Capacitor
20	-V _{CC}	-	Analog Power Supply -5V

Remarks)

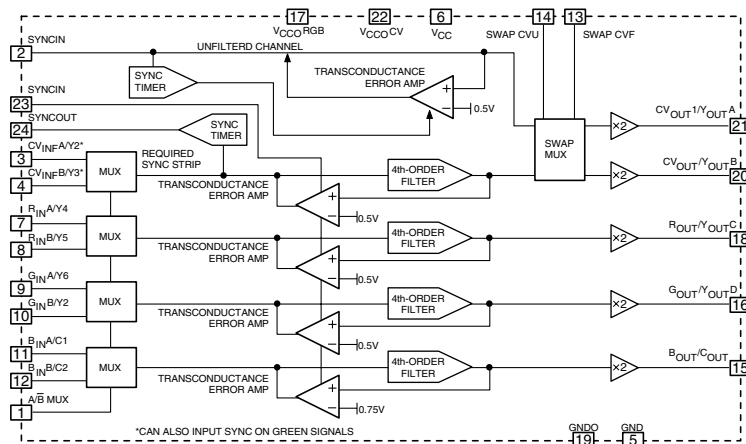
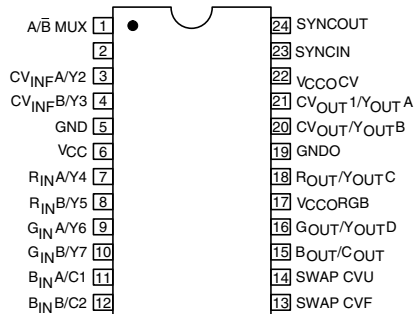
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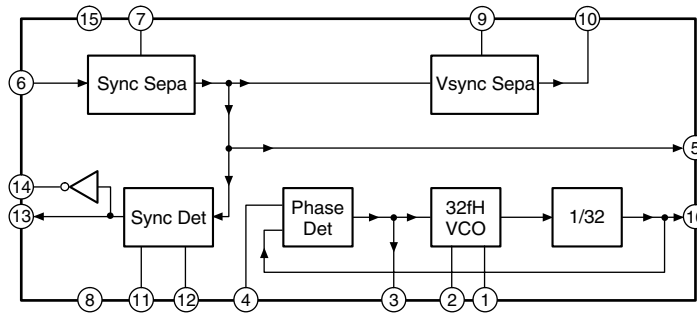
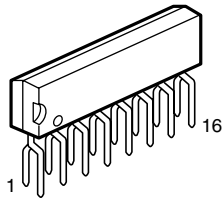
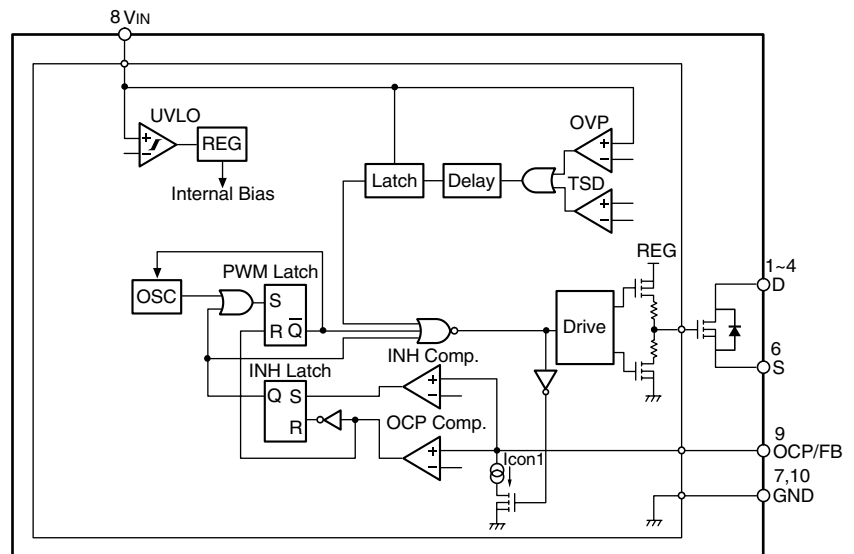
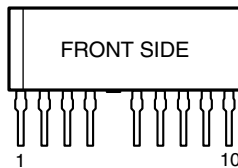
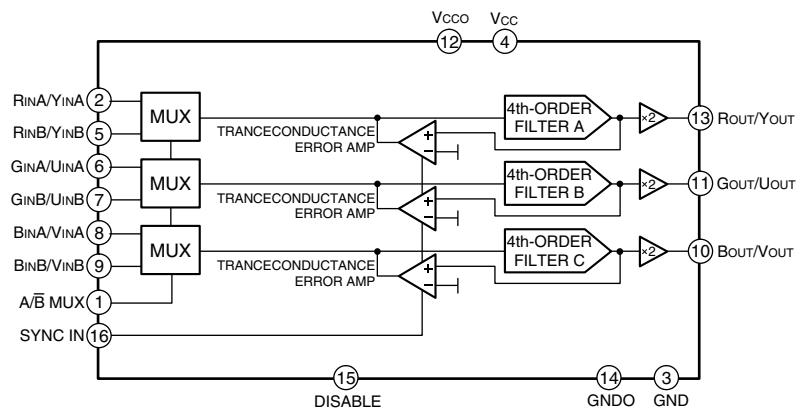
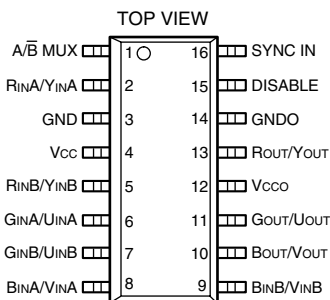
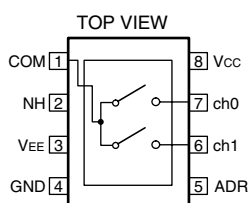
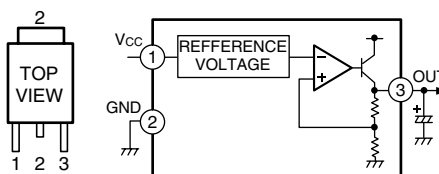
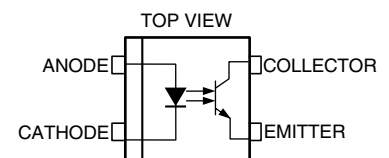
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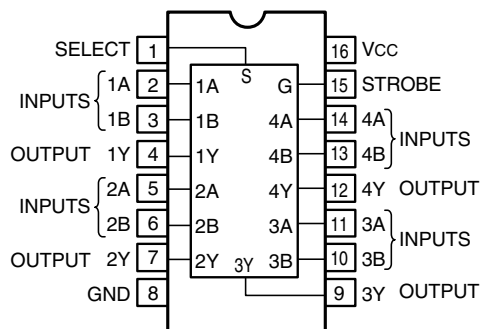
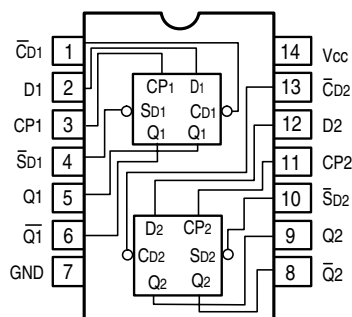
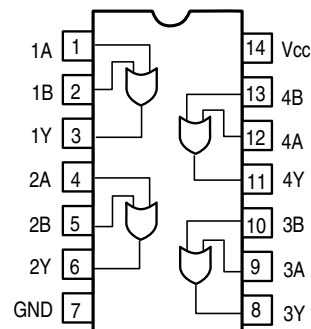
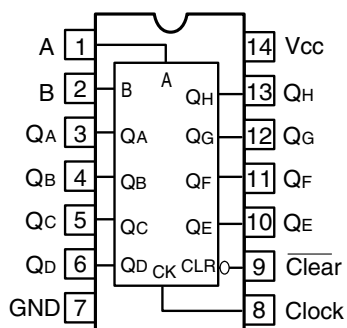
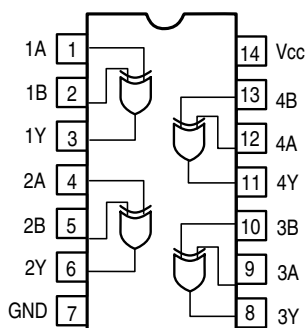
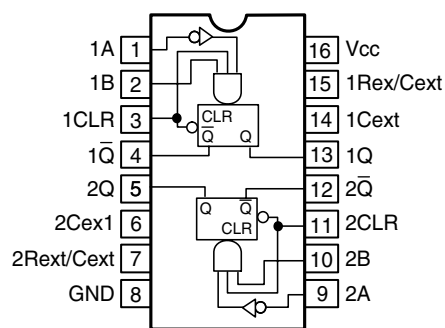
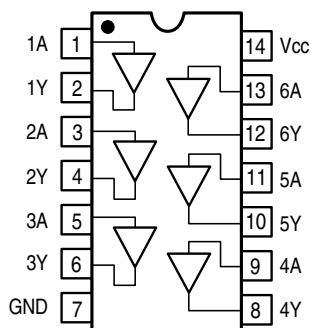
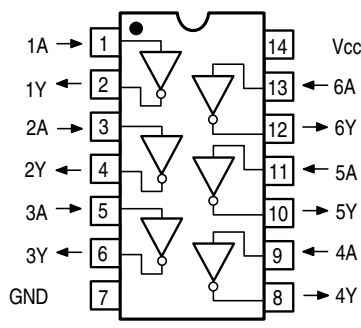
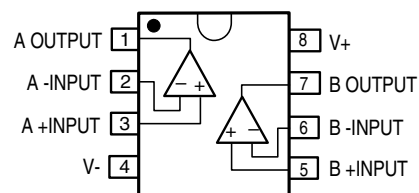
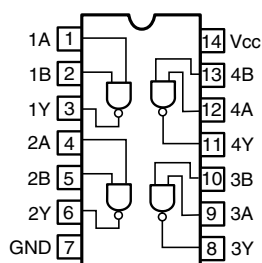
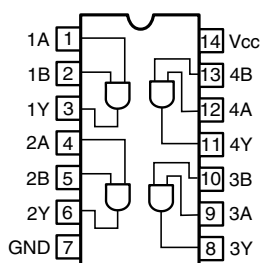
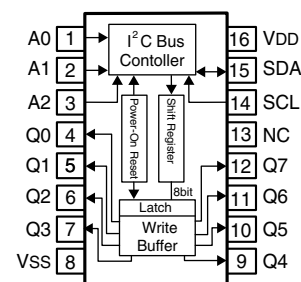
CXA1511M (IC252)

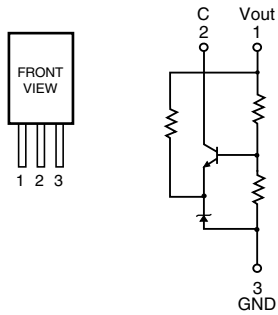
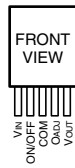
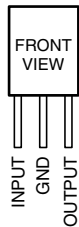
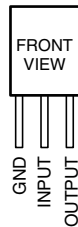
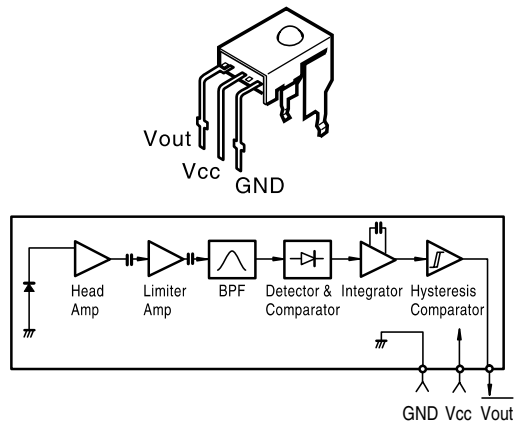
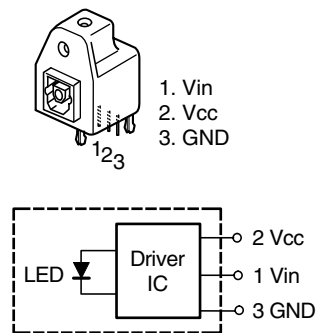
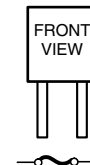
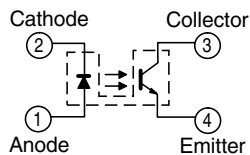
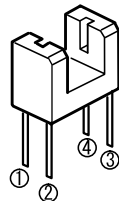


ML6247 (IC501)



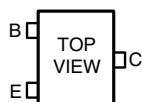
NJM2229S (IC504)**STR-L422 (IC901)****ML6426 (IC502)****TC4W53F (IC406)****BA033FP (IC605)**
BA18BC0FP (IC803)**TLP521-1 (IC902)**

SN74LV157APW (IC219)**SN74LV74ANS (IC215, IC217)****SN74LV32ANS (IC207)****SN74LV164ANS (IC205, 214, 218)****SN74LV86ANS (IC206)****74VHC123AMTCX (IC503)****TC74HCT7007AF (IC103, 202, 203)****TC74HCU04AF (IC210, 251)
TC74HCT04AF (IC301)****BA15218F (IC408, 409, 410)
NJM4558D (IC105)
NJM2068MD (IC303, 304, 321,
322, 401, 402, 403, 404, 405)****SN74LV00APW (IC505)****SN74LV08APW (IC216)****BU2098F (IC102)**

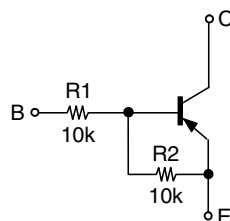
SE005N (IC903)**PQ070VK01FZ (IC906)****PST600C (IC603)****NJM7805FA (IC801)****NJM7809FA (IC904, 908)****BA033T (IC907)****NJM7905FA (IC802)****NJM7909FA (IC905)****● REMOTE CONTROL SENSOR****GP1U271X (IC604)****● OPTICAL****GP1F38T2 (JK201)****● IC PROTECTOR****ICP-N25 (IC909, 910)****PT491F
(Photo Transistor)****ON1021
(Photo Interrupter)**

● TRANSISTORS

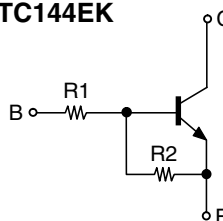
2SC2412K
2SC3326
2SD601A
KTC2875B
DTA114EK
DTC114EK
DTC124EK
DTC144EK



DTA114EK

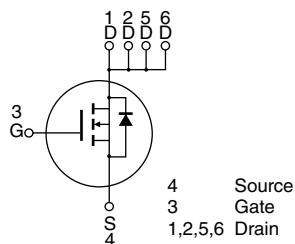
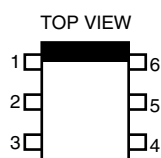


DTC114EK
DTC124EK
DTC144EK

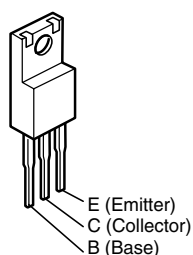


	R1	R2
DTC114EK	10 kohm/Ω	10 kohm/Ω
DTC124EK	22 kohm/Ω	22 kohm/Ω
DTC144EK	47 kohm/Ω	47 kohm/Ω

HAT2053M



2SD1913



2SB1274

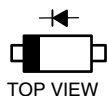


2SB562
2SC2878
2SD468

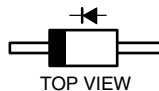


● DIODES (including LED)

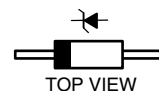
1SS355
RB161L-40



1SS270A
AG01ZT(V1)
AL01ZT(V1)
EM01AT(V1)
RJ43 LF015-305
RK39 LF-C4
SARS01T(V1)



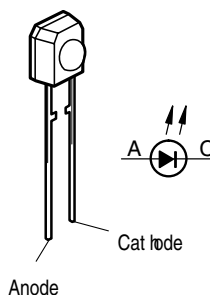
HZS4B-1



RB411DT



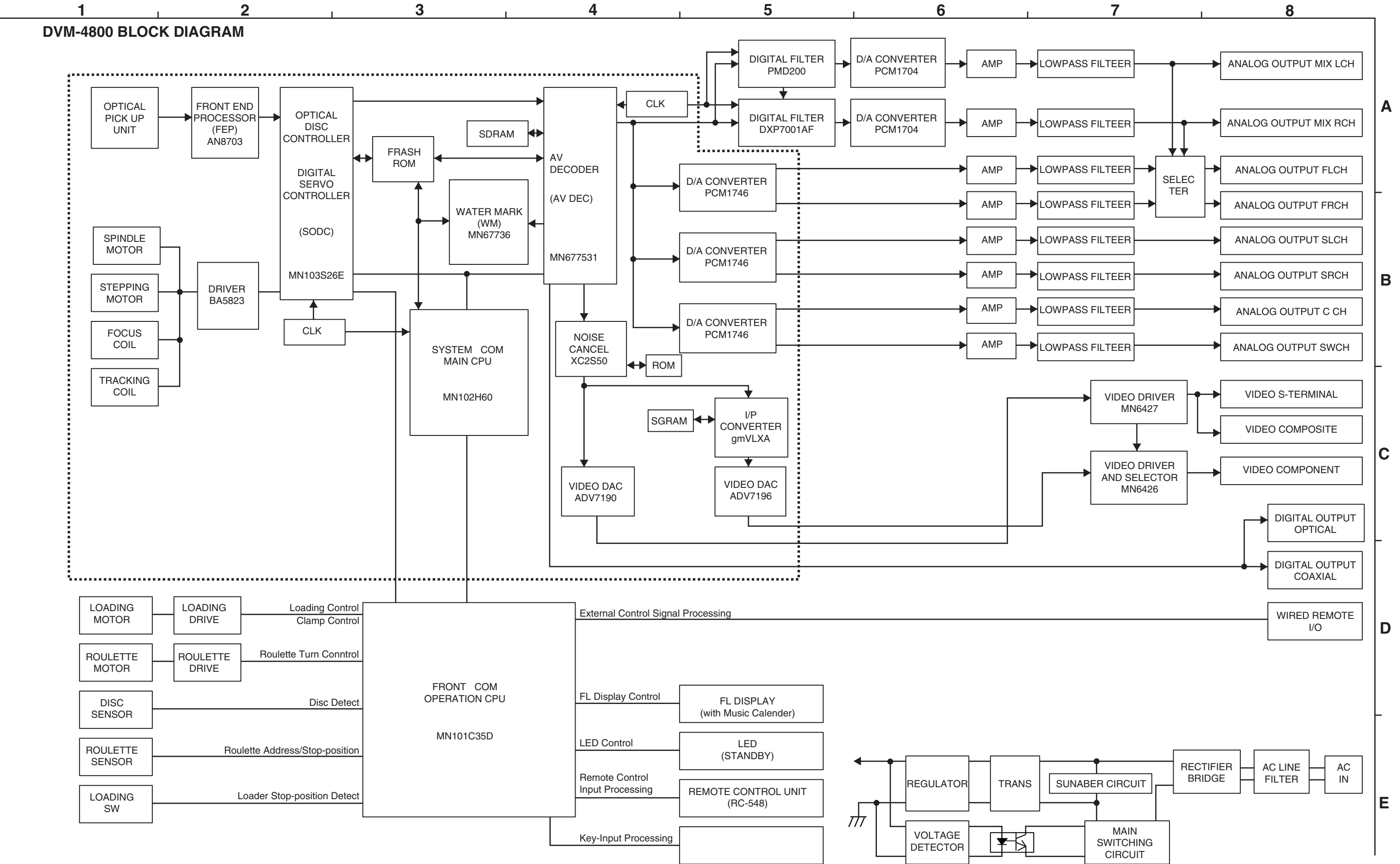
GL-450



SEL1210S (Red)
SEL1810A (Amber)
SELU1E10CXM-002 (Blue)

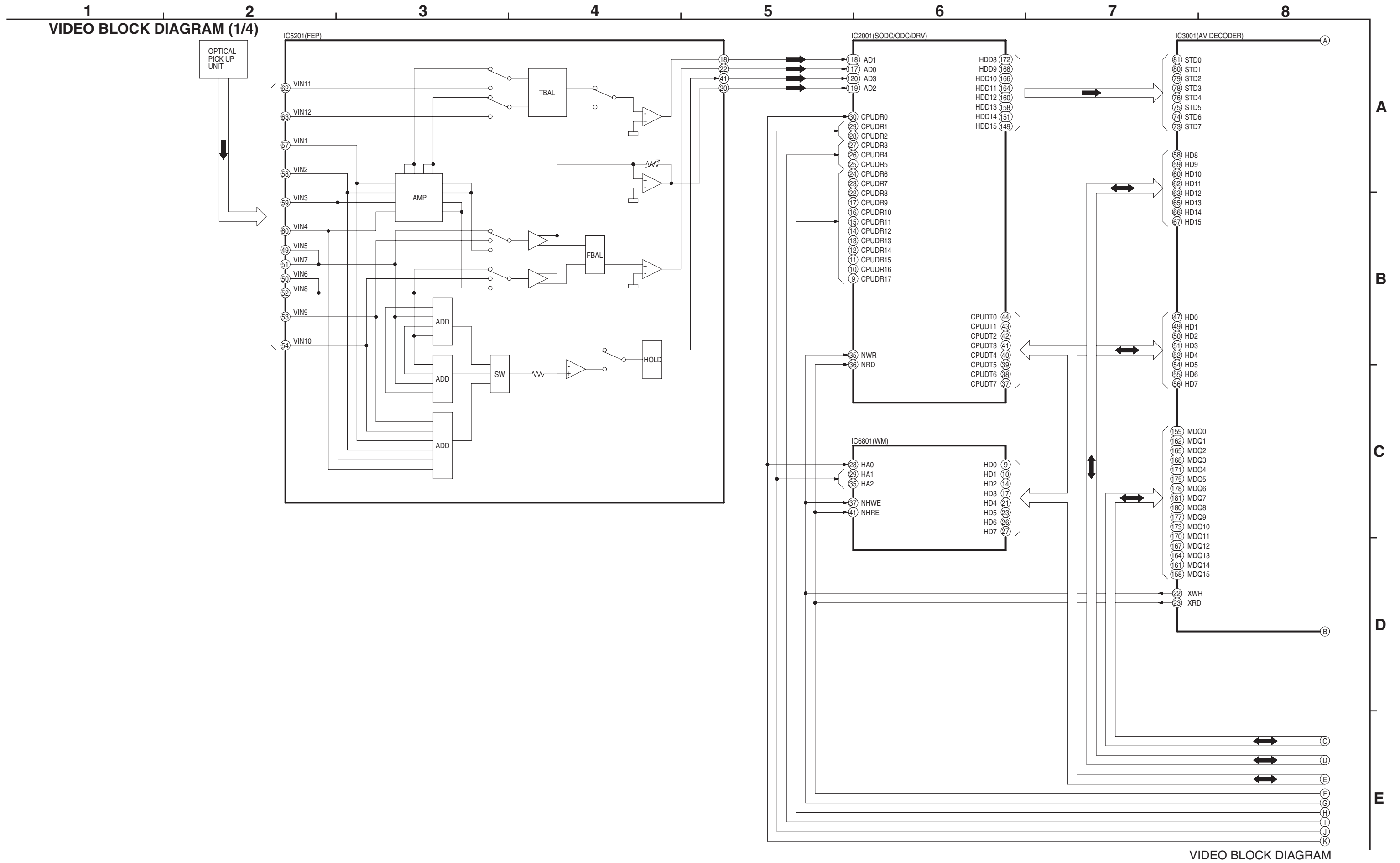


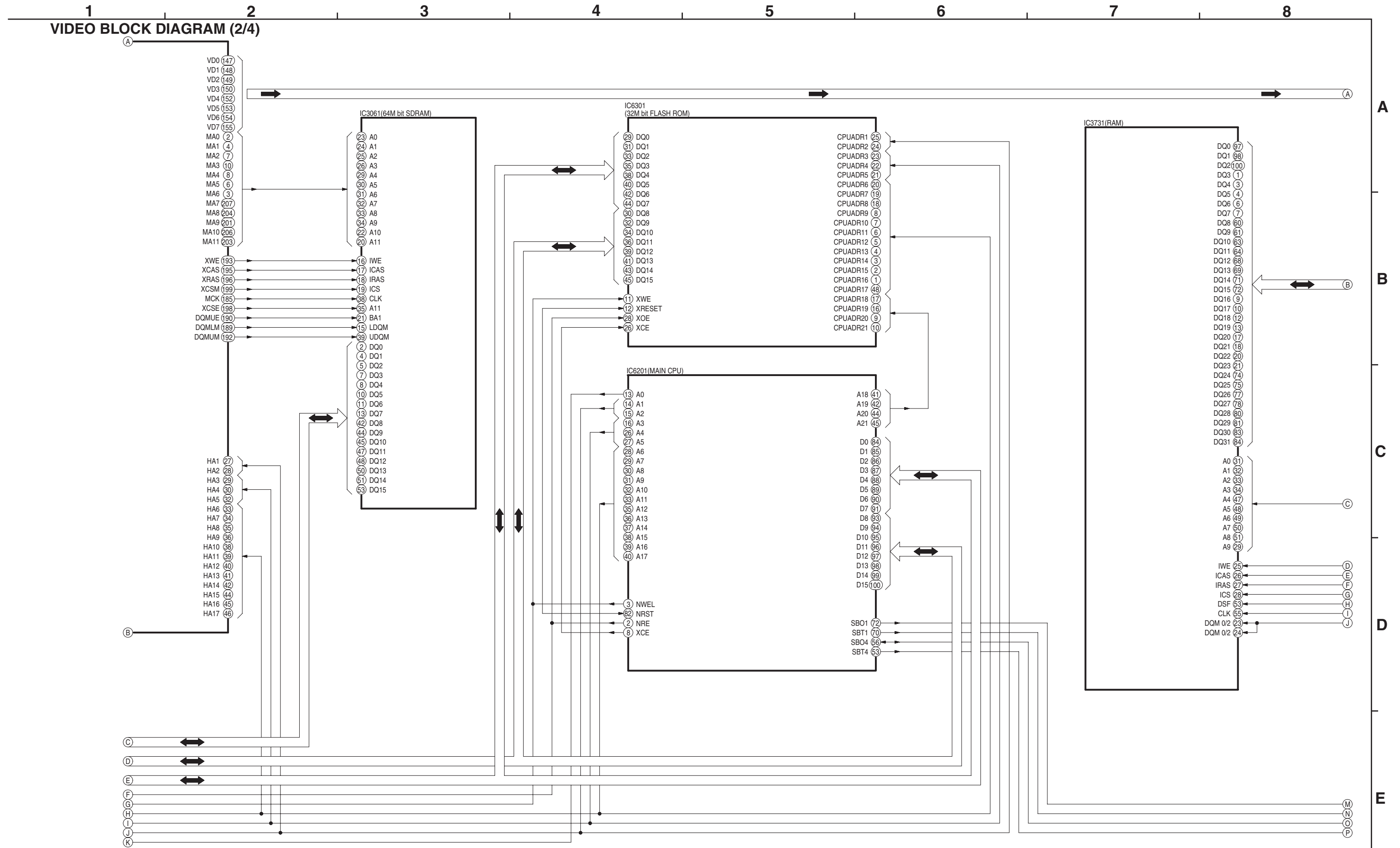
9. BLOCK DIAGRAMS







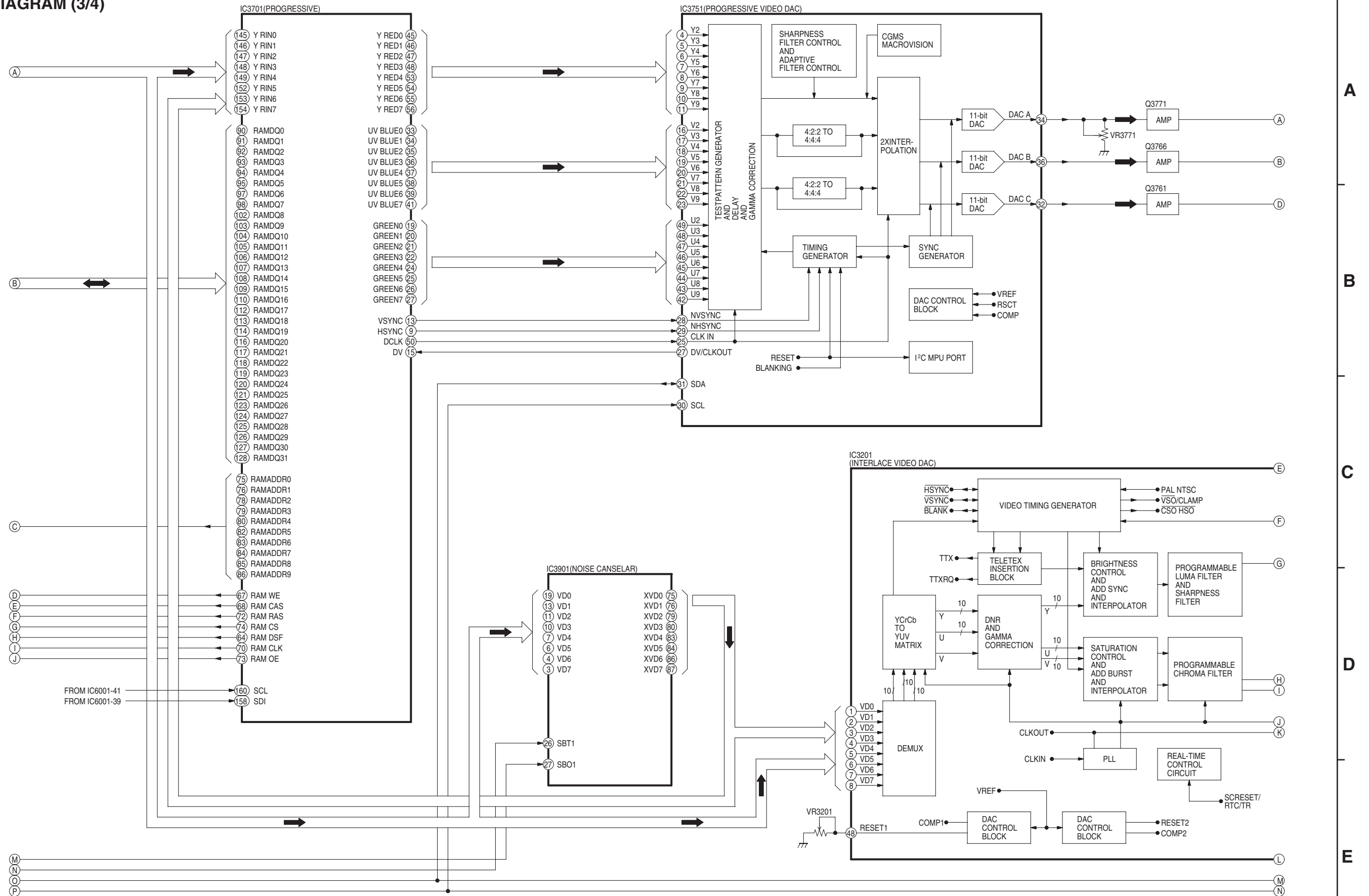




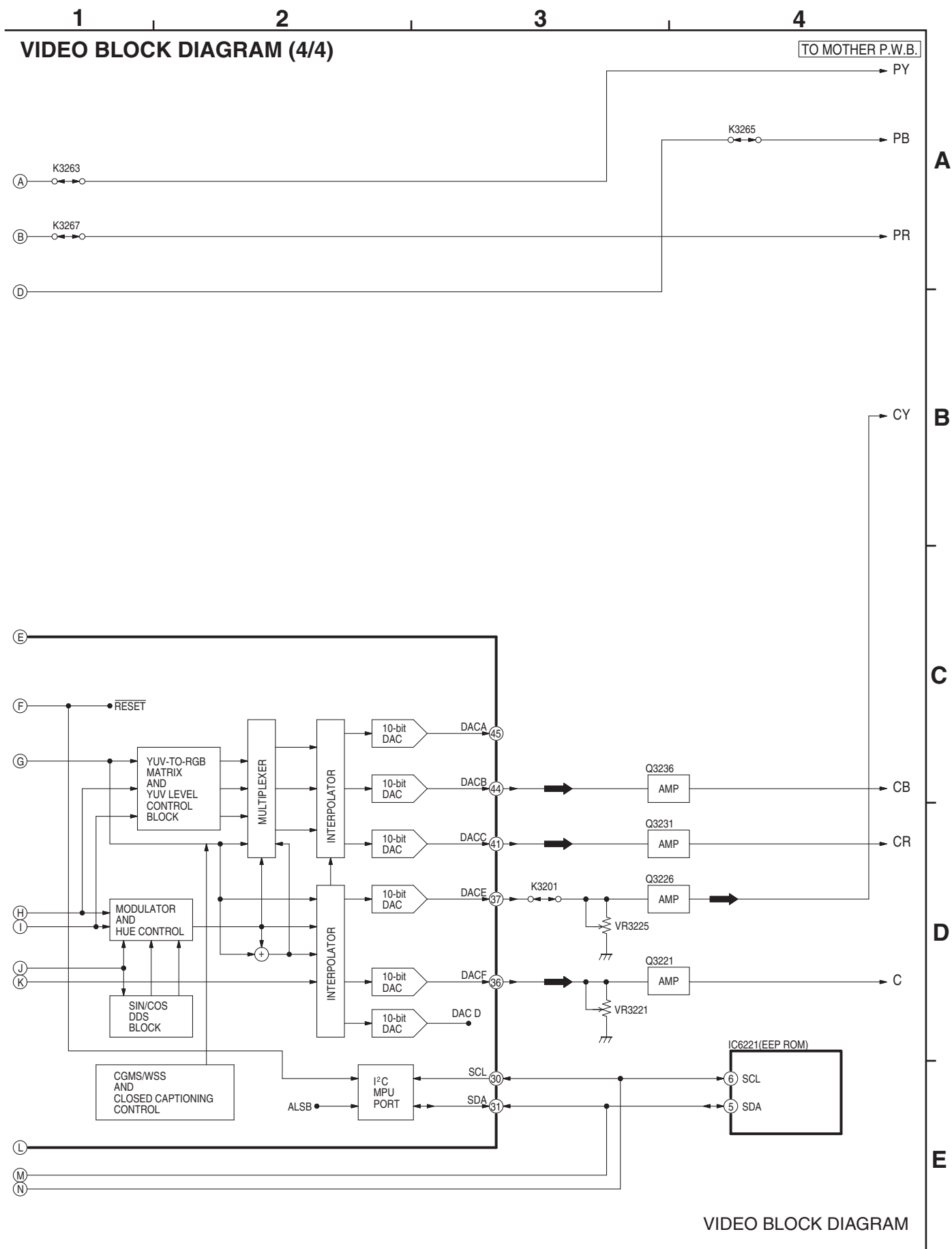
VIDEO BLOCK DIAGRAM

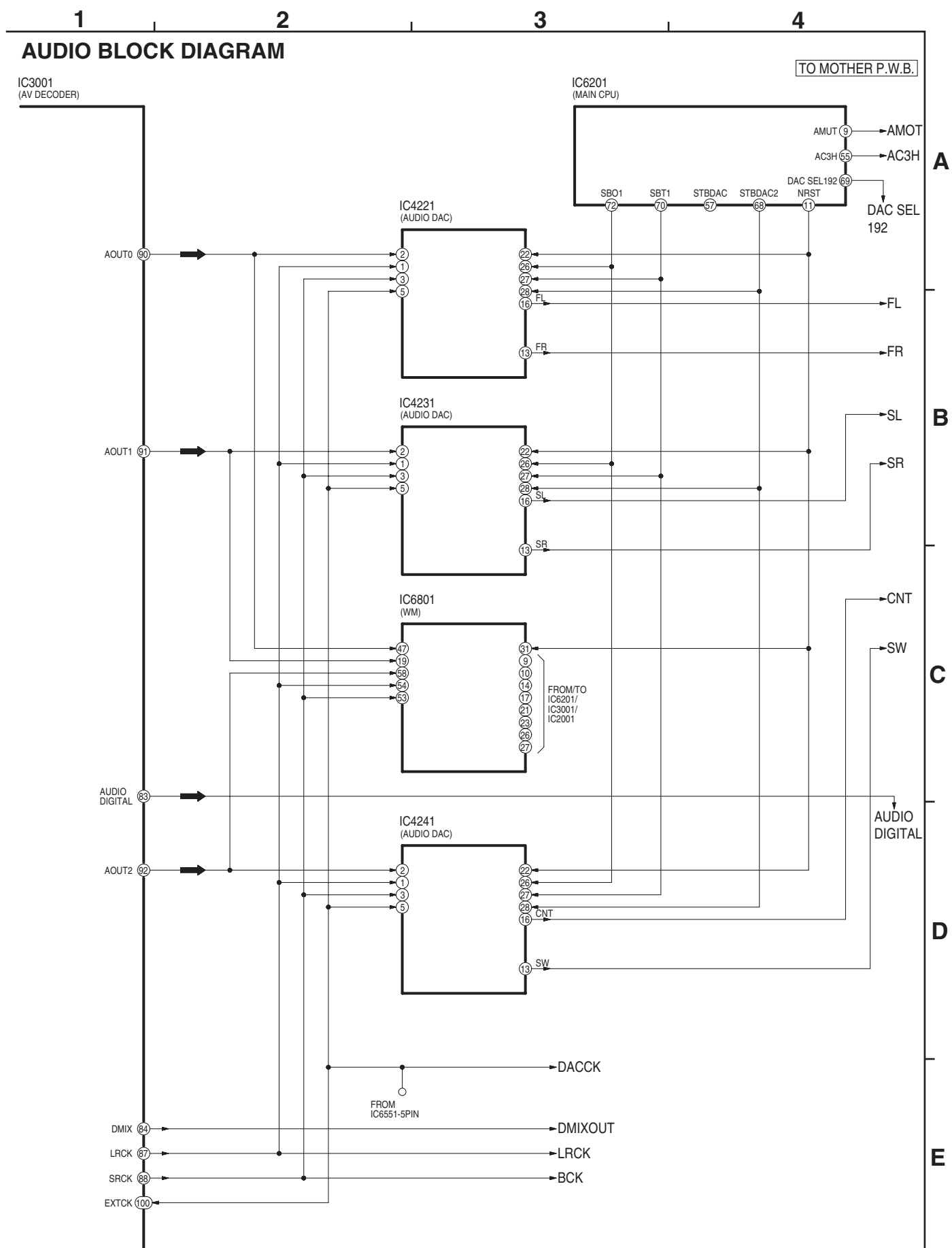
1 2 3 4 5 6 7 8

VIDEO BLOCK DIAGRAM (3/4)

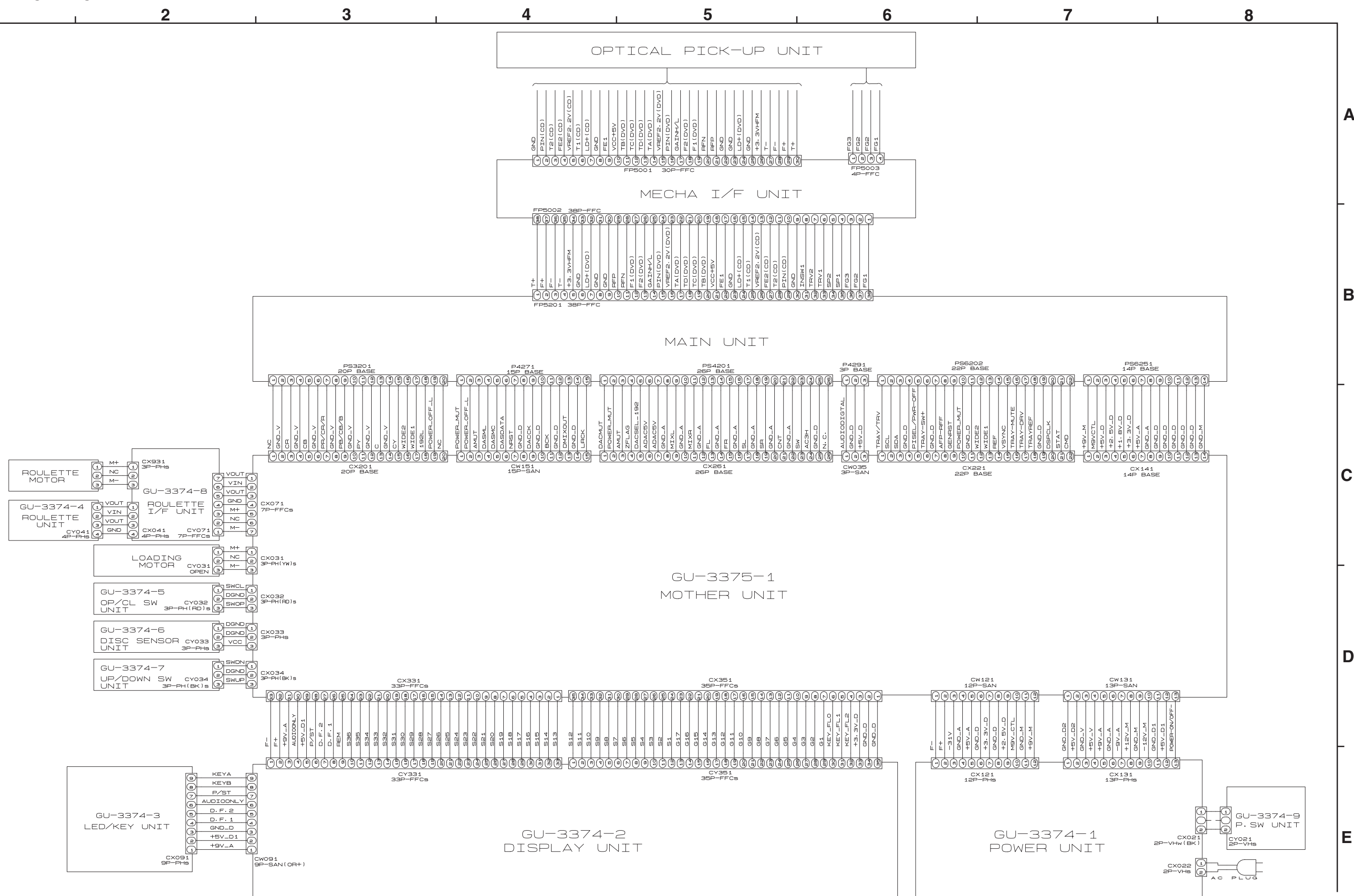


VIDEO BLOCK DIAGRAM





10. WIRING DIAGRAM

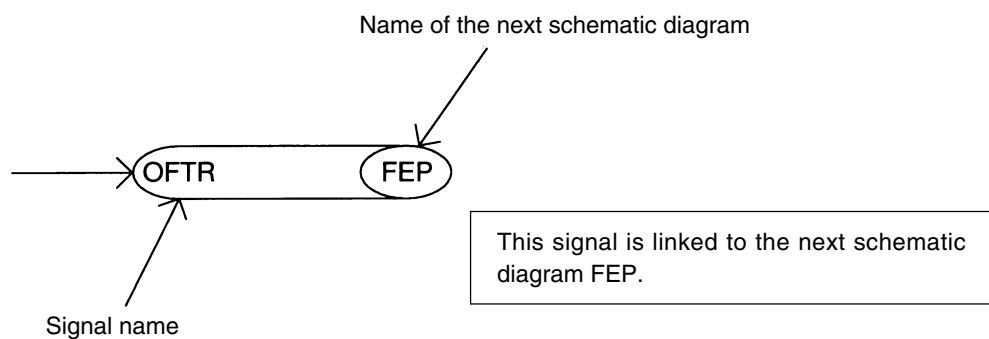


11. NOTES ON SCHEMATIC DIAGRAM

⚠ WARNING

Parts marked with this symbol ⚠ have critical characteristics.
Use only replacement parts specified to ensure safety and performance.

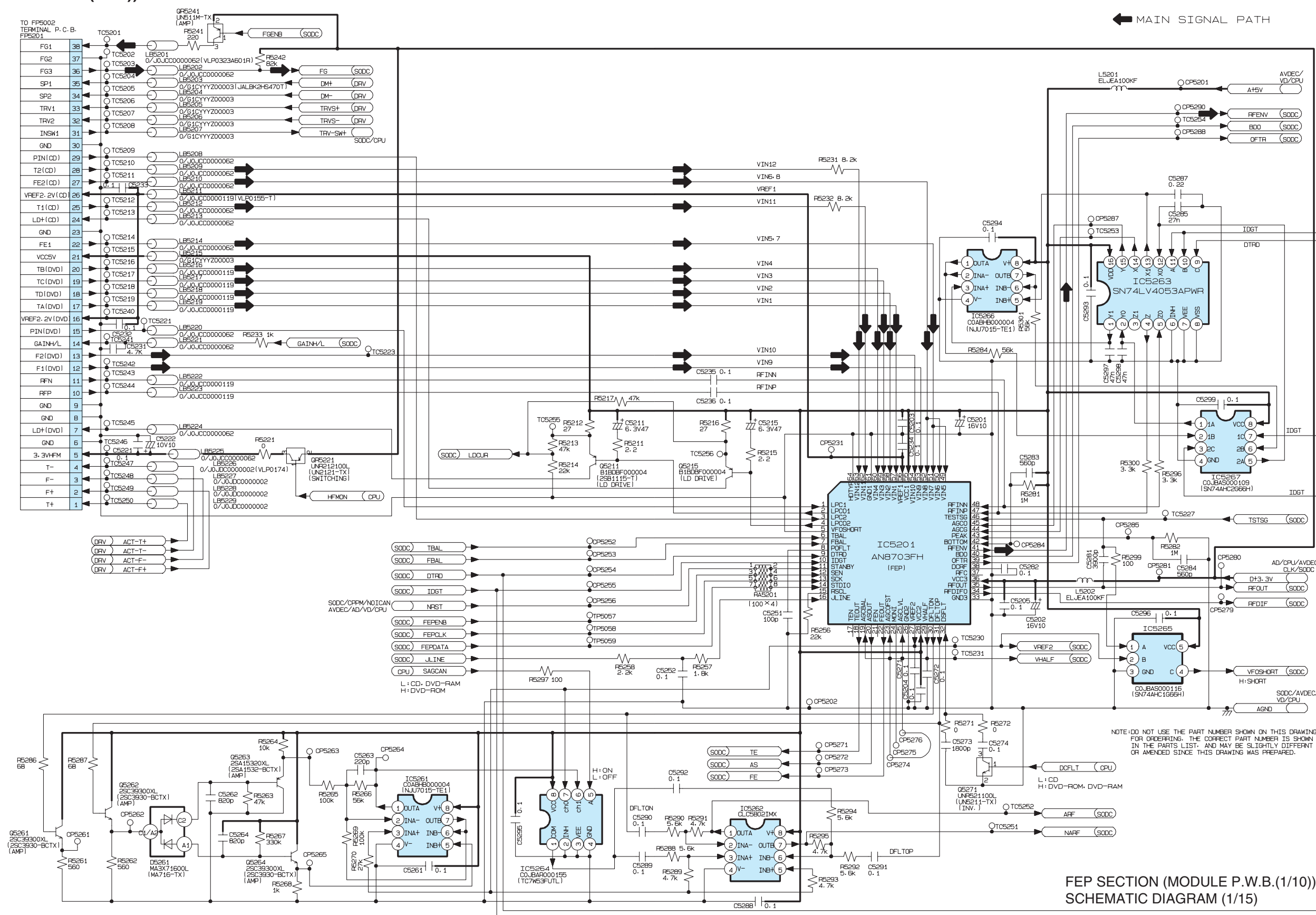
- Refer to Parts Price List for the parts number of resistors, capacitors, and other electrical components.
- How to trace the schematic diagram:



- Be noted that information for various versions is included in this schematic diagram.
- The figure 20000 in the parts number is omitted, so add 20000 in actual as follows.
(Example: R1001 → R21001)

12. SCHEMATIC DIAGRAMS (1/15)

FEP SECTION (MODULE P.W.B. (1/10))



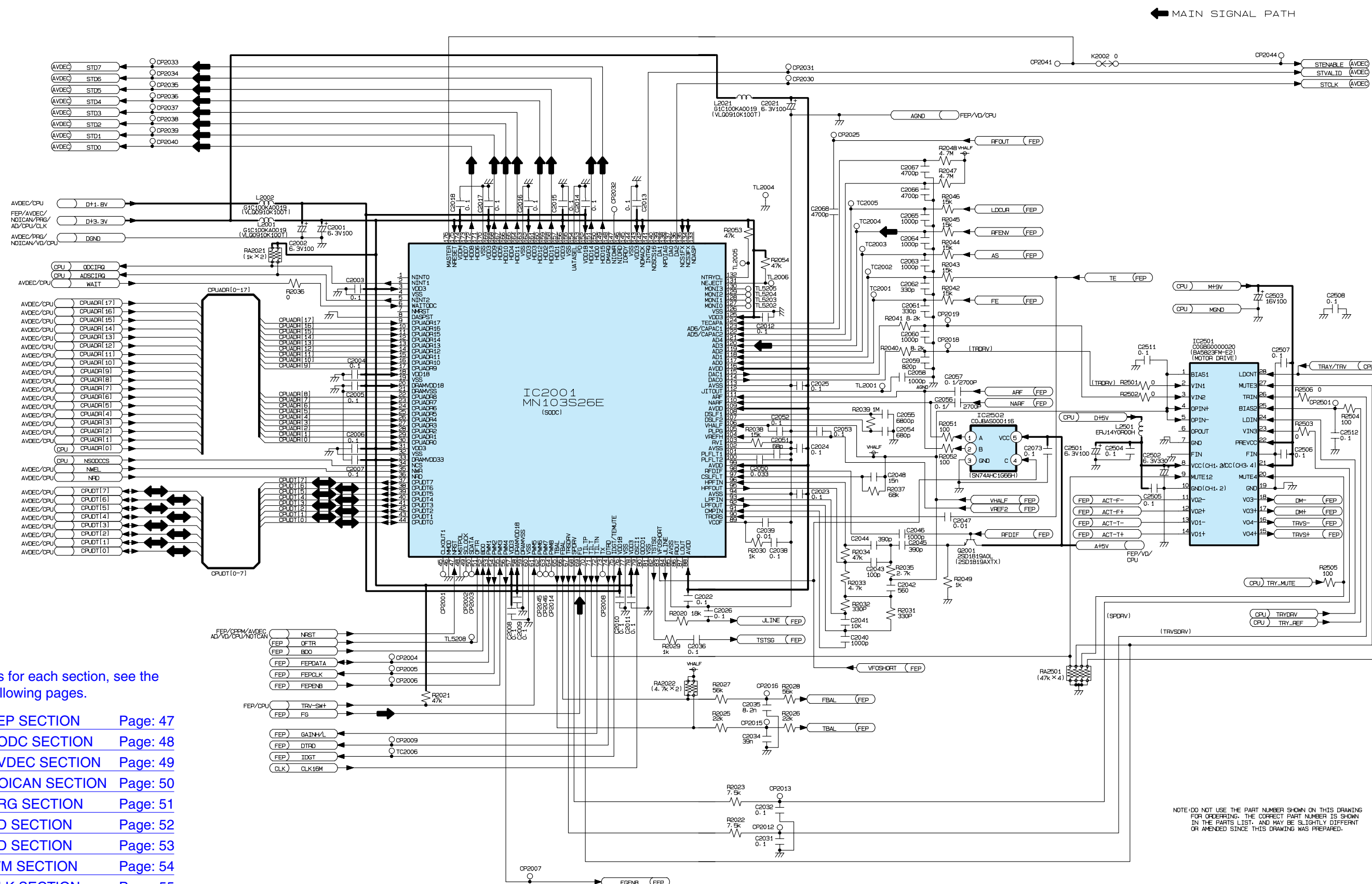
■ As for each section, see the following pages.

- | | |
|-------------------------|----------|
| ▶ <u>FEP SECTION</u> | Page: 47 |
| ▶ <u>SODC SECTION</u> | Page: 48 |
| ▶ <u>AVDEC SECTION</u> | Page: 49 |
| ▶ <u>NOICAN SECTION</u> | Page: 50 |
| ▶ <u>PRG SECTION</u> | Page: 51 |
| ▶ <u>VD SECTION</u> | Page: 52 |
| ▶ <u>AD SECTION</u> | Page: 53 |
| ▶ <u>WM SECTION</u> | Page: 54 |
| ▶ <u>CLK SECTION</u> | Page: 55 |
| ▶ <u>CPU SECTION</u> | Page: 56 |

FEP SECTION (MODULE P.W.B.(1/10))
SCHEMATIC DIAGRAM (1/15)

SCHEMATIC DIAGRAMS (2/15)

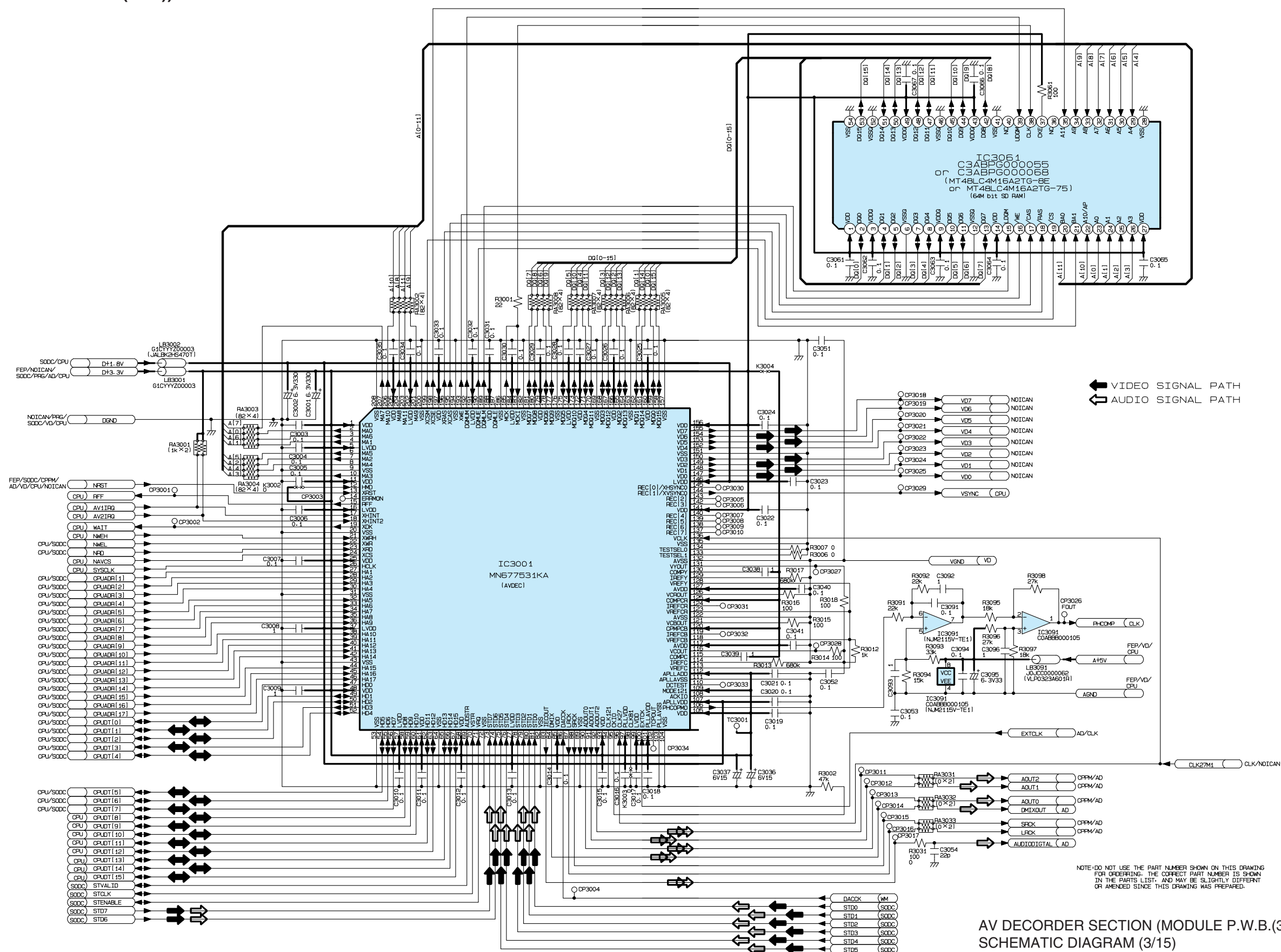
1	2
SODC SECTION (MODULE P.W.B. (2/10))	



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING
FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT
OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SODC SECTION (MODULE P.W.B.(2/10))
SCHEMATIC DIAGRAM (2/15)

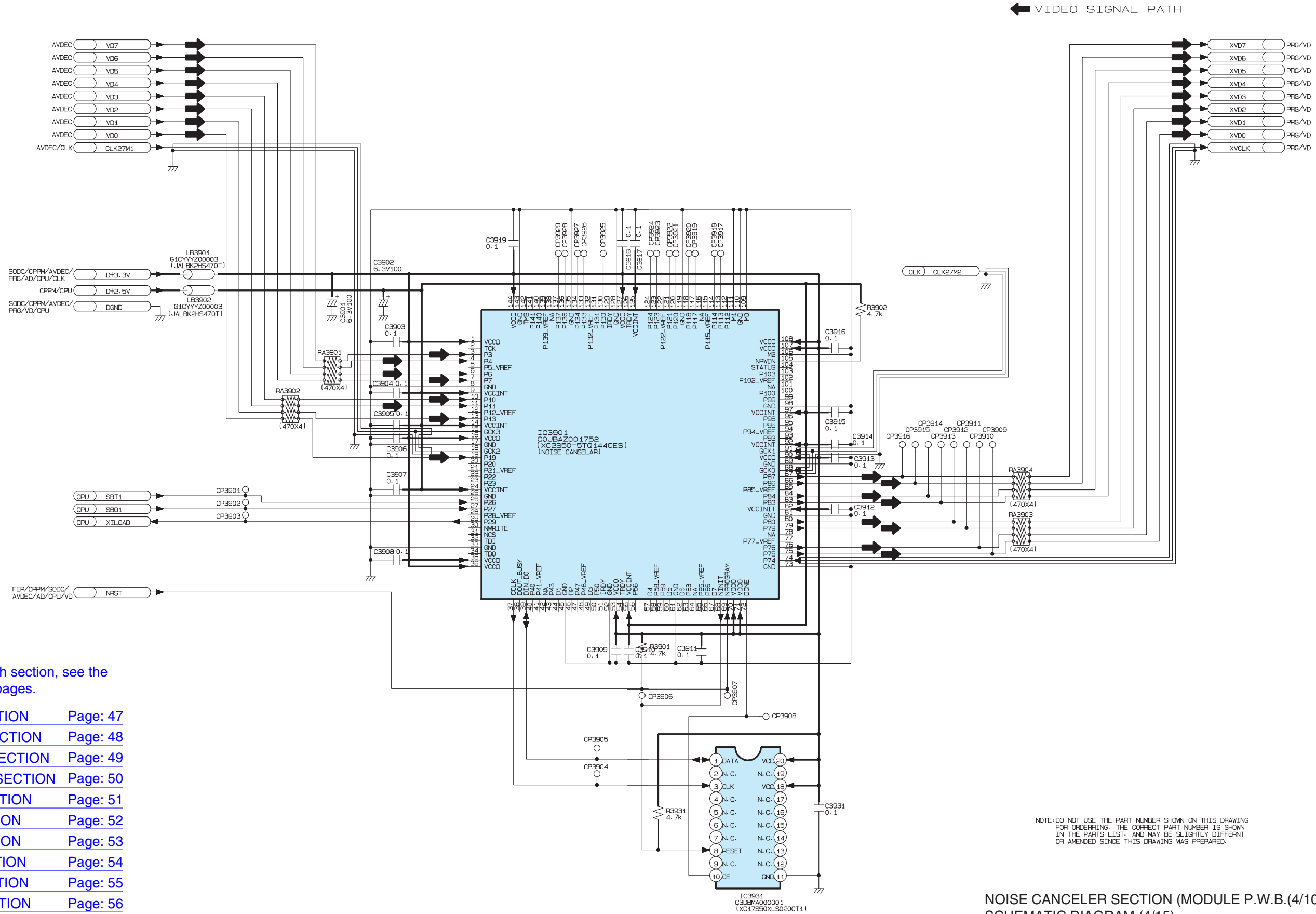
AV DECORDER SECTION (MODULE P.W.B. (3/10))



AV DECORDER SECTION (MODULE P.W.B.(3/10))
SCHEMATIC DIAGRAM (3/15)

SCHEMATIC DIAGRAMS (4/15)

NOISE CANCELER SECTION (MODULE P.W.B. (4/10))

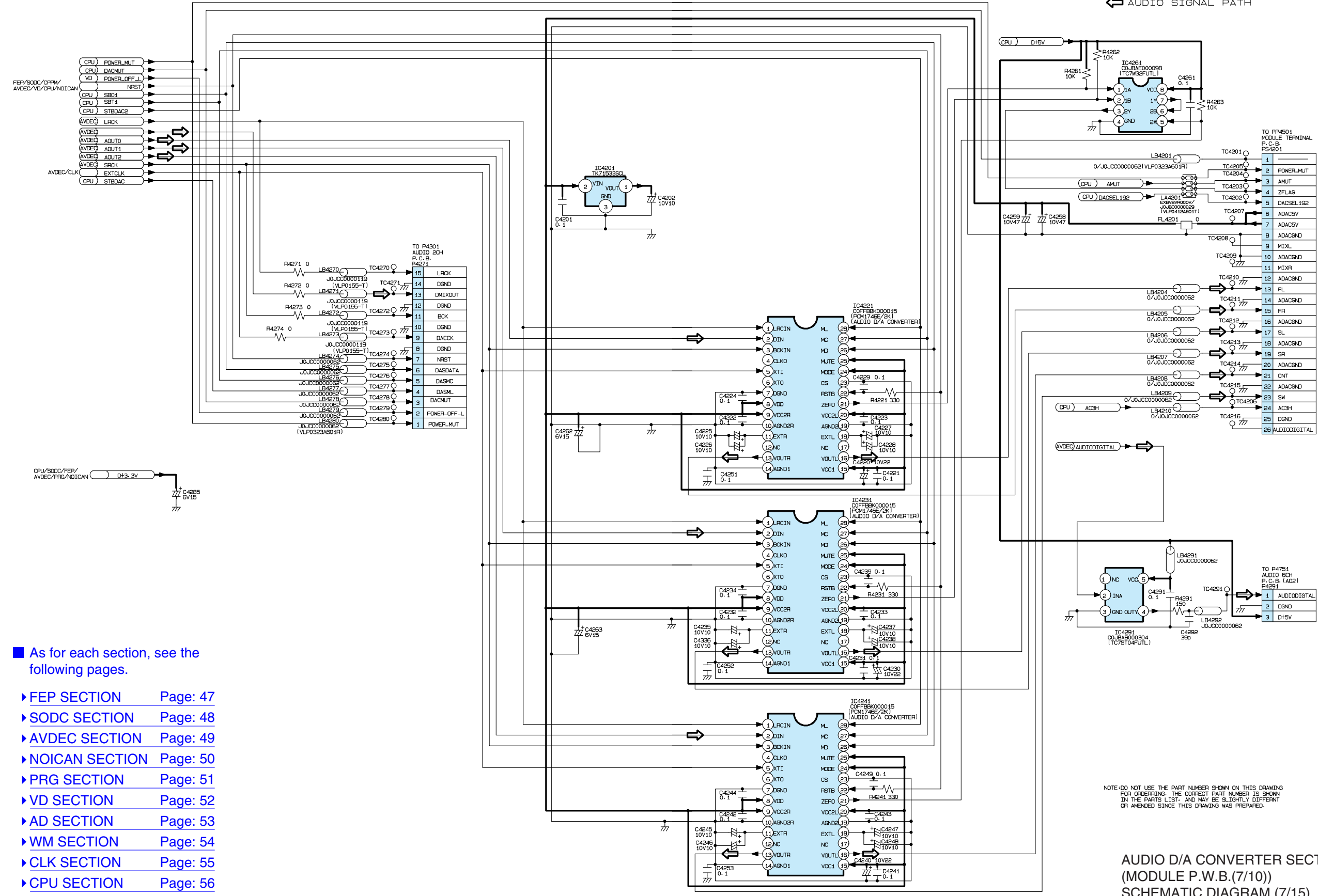


- As for each section, see the following pages.
- ▶ FEP SECTION Page: 47
- ▶ SODC SECTION Page: 48
- ▶ AVDEC SECTION Page: 49
- ▶ NOICAN SECTION Page: 50
- ▶ PRG SECTION Page: 51
- ▶ VD SECTION Page: 52
- ▶ AD SECTION Page: 53
- ▶ WM SECTION Page: 54
- ▶ CLK SECTION Page: 55
- ▶ CPU SECTION Page: 56

NOISE CANCELER SECTION (MODULE P.W.B.(4/10))
SCHEMATIC DIAGRAM (4/15)

SCHEMATIC DIAGRAMS (7/15)

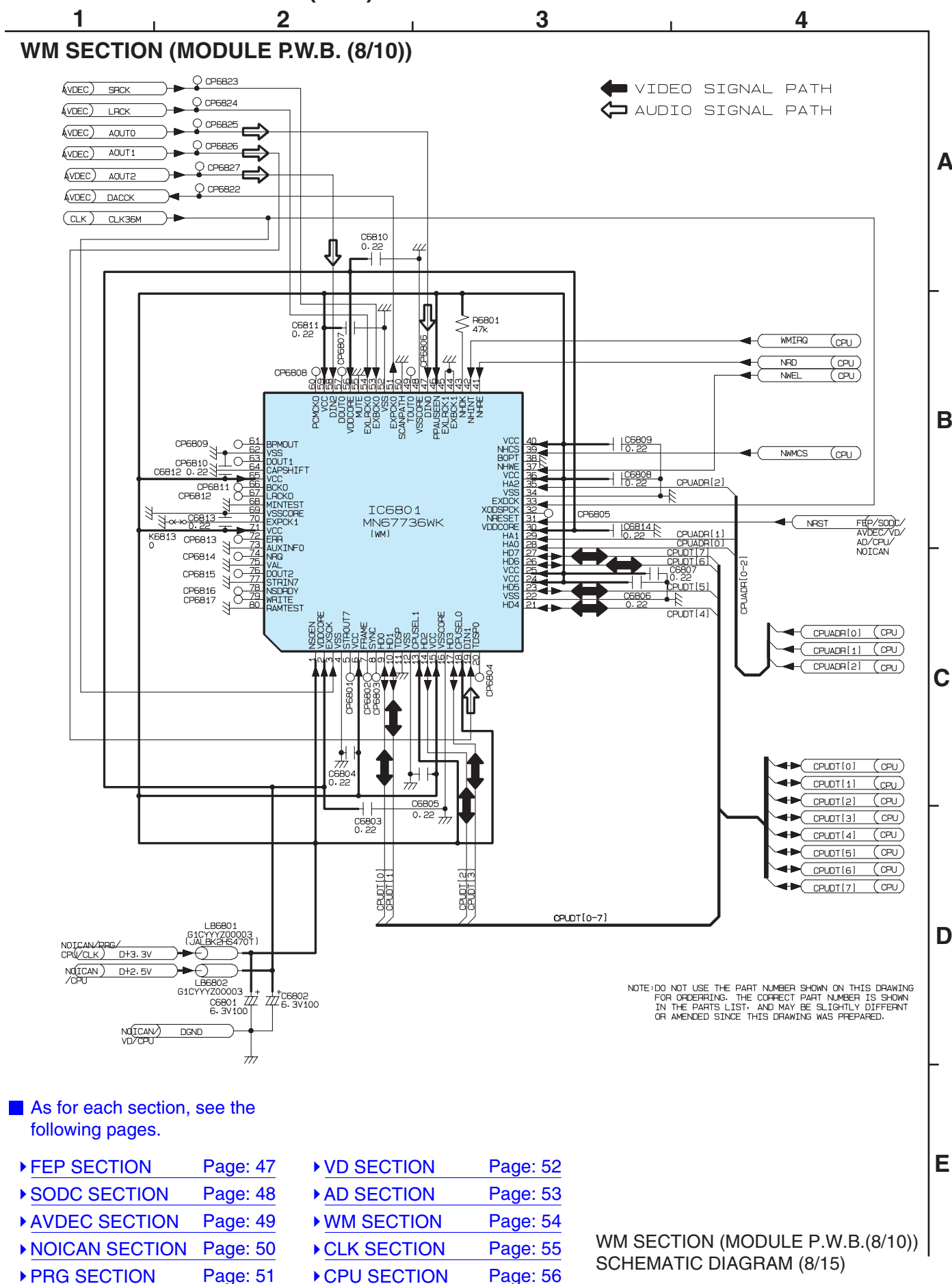
AUDIO D/A CONVERTER SECTION (MODULE P.W.B. (7/10))



- As for each section, see the following pages.
- ▶ FEP SECTION Page: 47
 - ▶ SODC SECTION Page: 48
 - ▶ AVDEC SECTION Page: 49
 - ▶ NOICAN SECTION Page: 50
 - ▶ PRG SECTION Page: 51
 - ▶ VD SECTION Page: 52
 - ▶ AD SECTION Page: 53
 - ▶ WM SECTION Page: 54
 - ▶ CLK SECTION Page: 55
 - ▶ CPU SECTION Page: 56

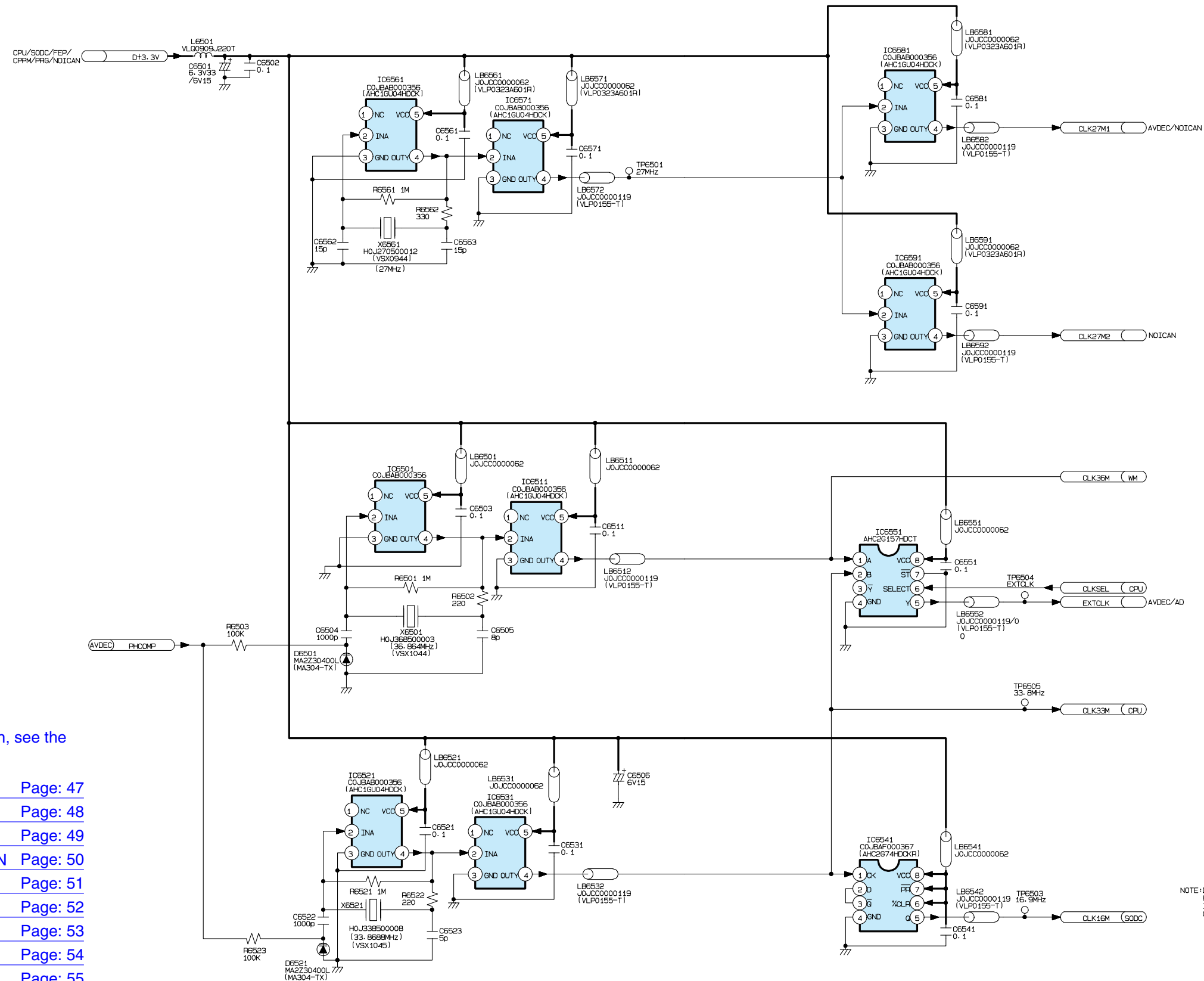
AUDIO D/A CONVERTER SECTION (MODULE P.W.B.(7/10)) SCHEMATIC DIAGRAM (7/15)

SCHEMATIC DIAGRAMS (8/15)



SCHEMATIC DIAGRAMS (9/15)

CLOCK SECTION (MODULE P.W.B. (9/10))



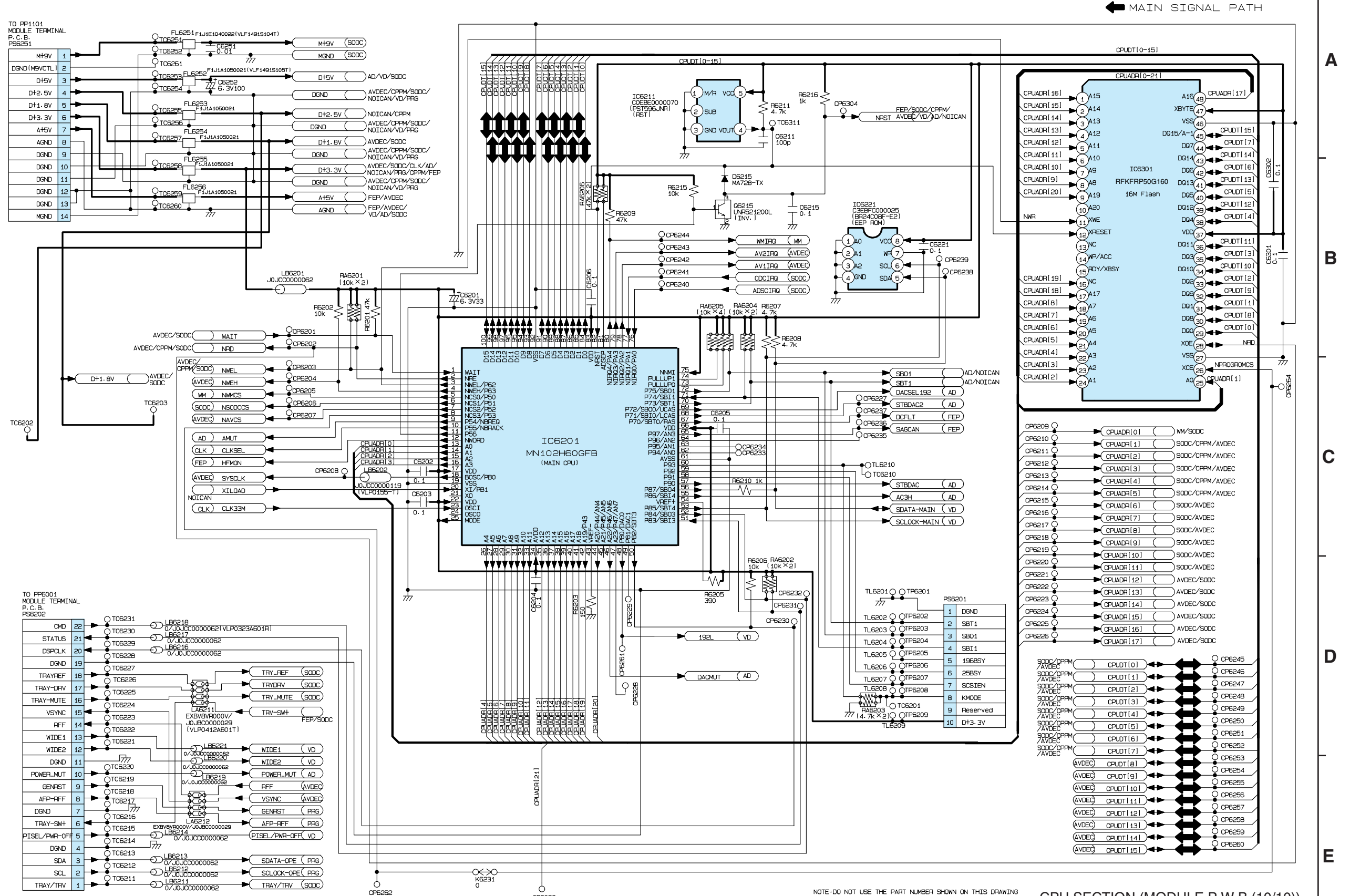
■ As for each section, see the following pages.

- ▶ FEP SECTION Page: 47
- ▶ SODC SECTION Page: 48
- ▶ AVDEC SECTION Page: 49
- ▶ NOICAN SECTION Page: 50
- ▶ PRG SECTION Page: 51
- ▶ VD SECTION Page: 52
- ▶ AD SECTION Page: 53
- ▶ WM SECTION Page: 54
- ▶ CLK SECTION Page: 55
- ▶ CPU SECTION Page: 56

CLOCK SECTION (MODULE P.W.B.(9/10))
SCHEMATIC DIAGRAM (9/15)

SCHEMATIC DIAGRAMS (10/15)

CPU SECTION (MODULE P.W.B. (10/10))



- As for each section, see the following pages.

- | | |
|------------------|----------|
| ► FEP SECTION | Page: 47 |
| ► SODC SECTION | Page: 48 |
| ► AVDEC SECTION | Page: 49 |
| ► NOICAN SECTION | Page: 50 |
| ► PRG SECTION | Page: 51 |
| ► VD SECTION | Page: 52 |
| ► AD SECTION | Page: 53 |
| ► WM SECTION | Page: 54 |
| ► CLK SECTION | Page: 55 |
| ► CPU SECTION | Page: 56 |

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING
FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT
OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CPU SECTION (MODULE P.W.B.(10/10))
SCHEMATIC DIAGRAM (10/15)

SCHEMATIC DIAGRAMS (11/15)

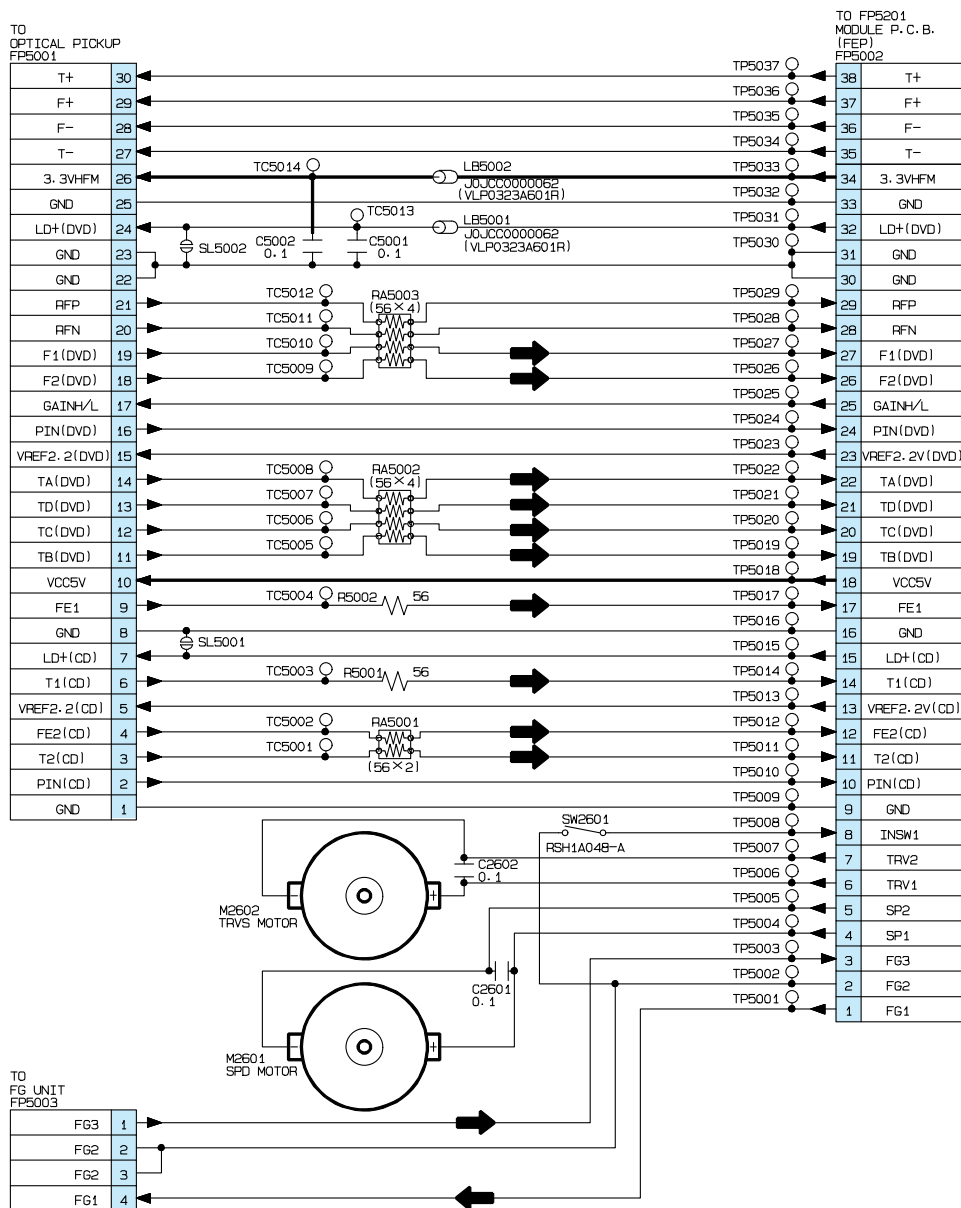
1
TERMINAL

2

3

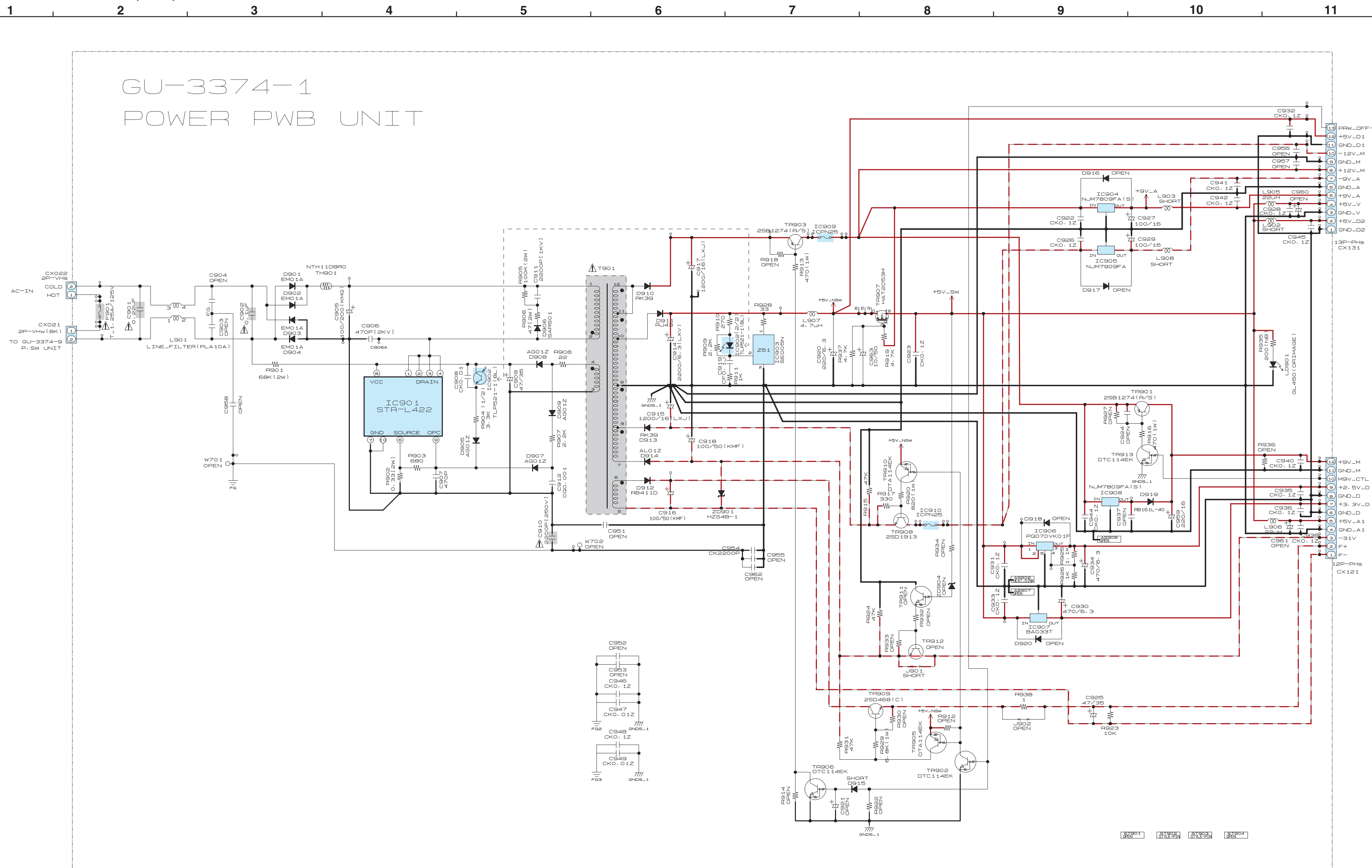
4

← MAIN SIGNAL PATH



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SCHEMATIC DIAGRAMS (12/15)



NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT MO SIGNAL INPUT
 CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
 NOTICE.

WARNING

Parts marked with this symbol Δ have critical characteristics.
 Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

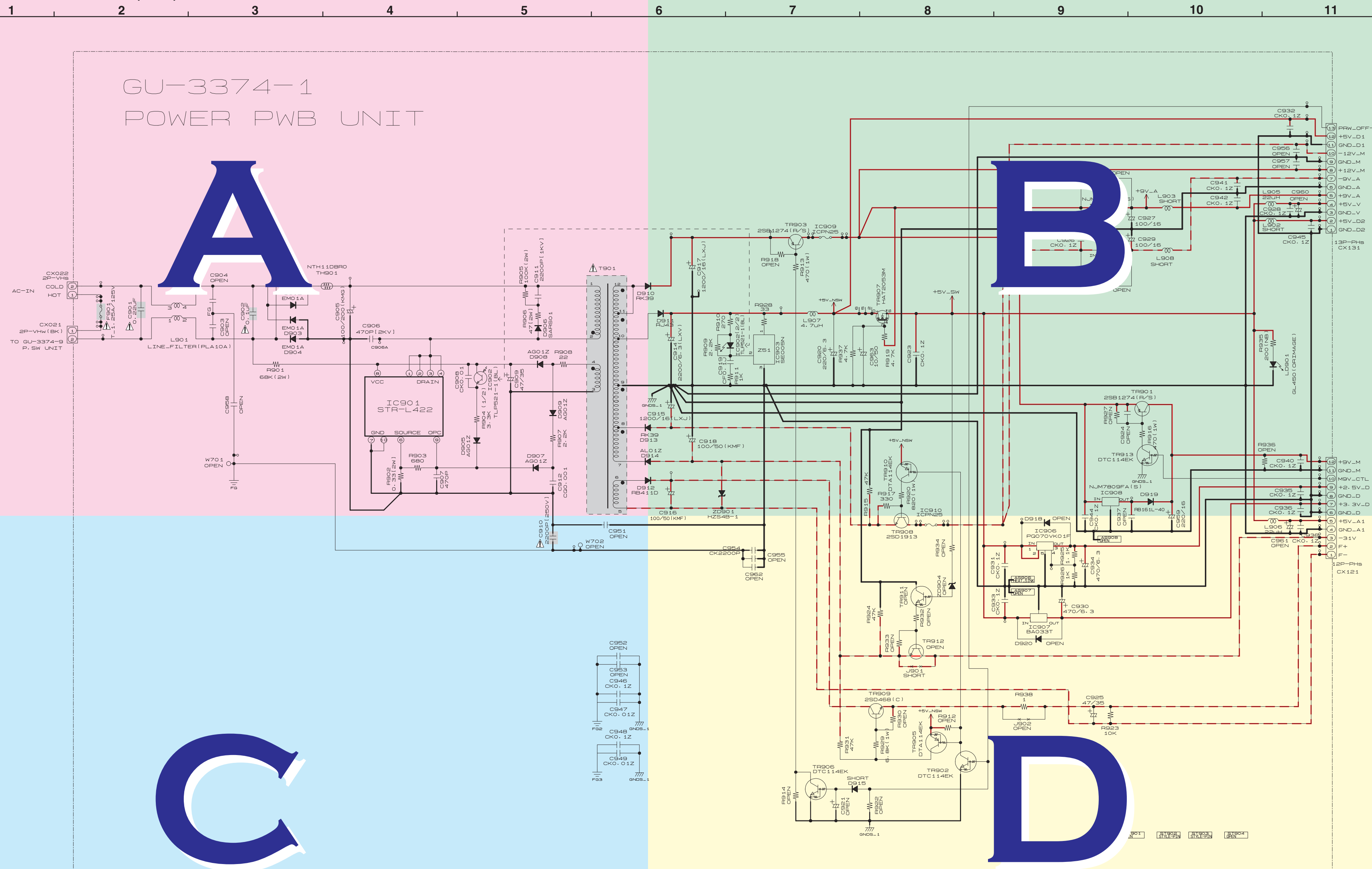
Before returning the unit to the customer, make sure you make either (1) a
 leakage current check or (2) a line to chassis resistance check. If the leakage
 current exceeds 0.5 milliamperes, or if the resistance from chassis to either side
 of the power card is less than 460kohms, the unit is defective.

WARNING

DO NOT return the unit to the customer until the problem is located and
 corrected.

— + B LINE
 - - - - -B LINE

SCHEMATIC DIAGRAMS (12/15)
 GU-3374-1 POWER UNIT



NOTICE

ALL RESISTANCE VALUES IN OHM. K=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

WARNING

Parts marked with this symbol  have critical characteristics. Use ONLY replacement parts recommended by the manufacture.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

WARNING

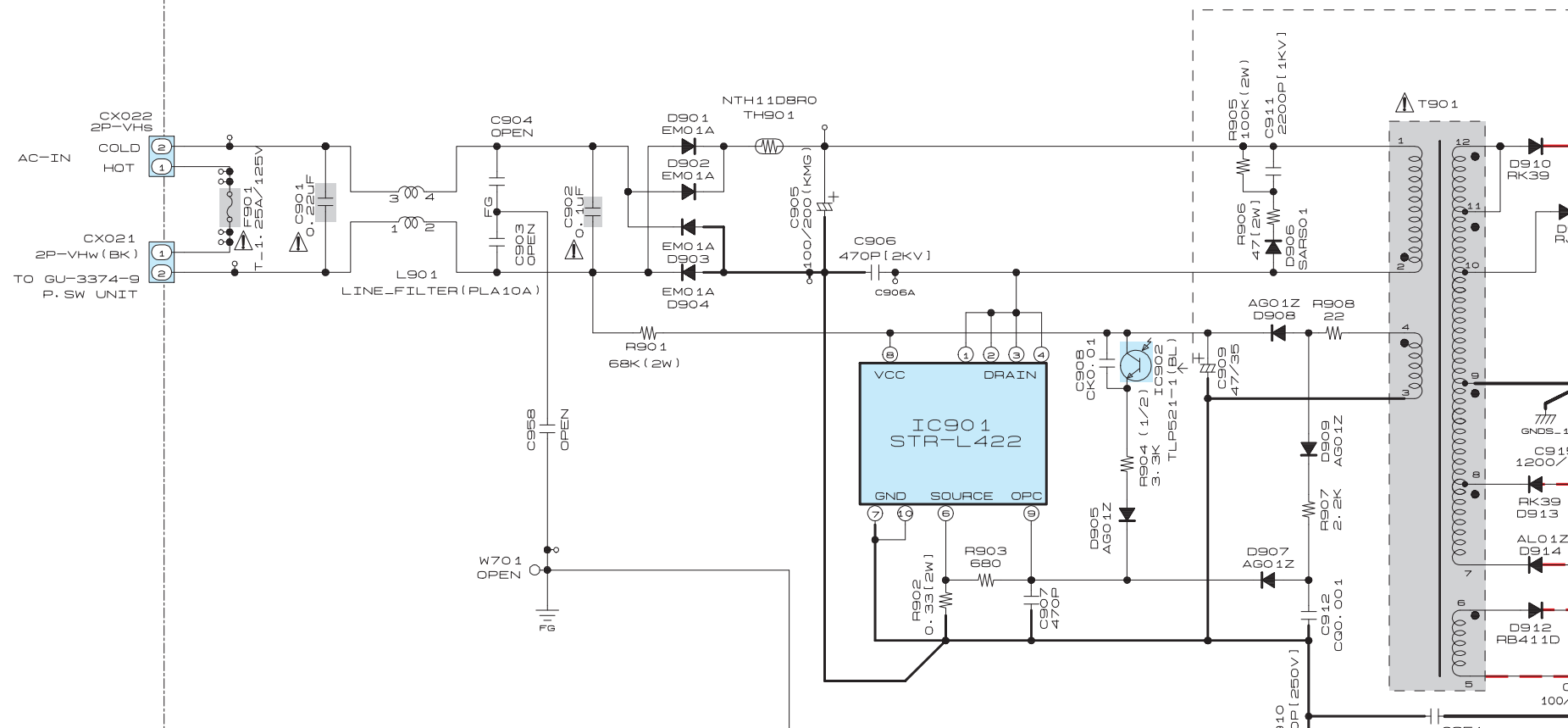
WARNING
DO NOT return the unit to the customer until the problem is located and corrected.

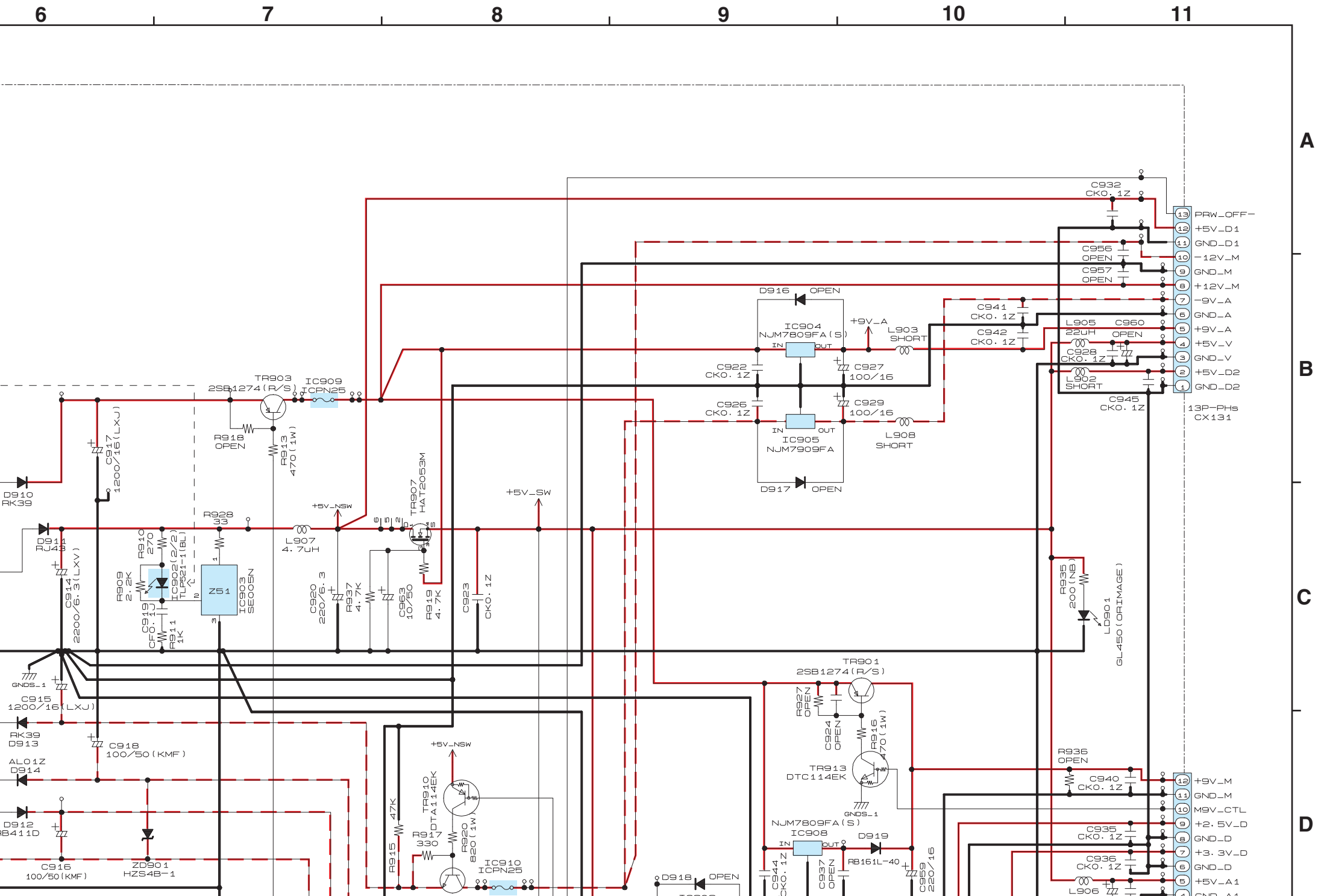
 + B LINE

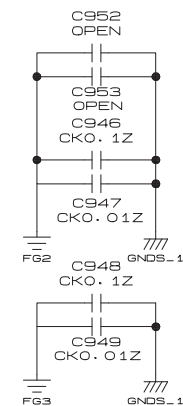
 - B LINE

SCHEMATIC DIAGRAMS (12/15)
GU-3374-1 POWER UNIT

1 | **2** | **3** | **4** | **5** | **6**







NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
 EACH VOLTAGE AND CURRENT ARE MEASUERD AT MO SIGNAL INPUT
 CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
 NOTICE.

WARNING

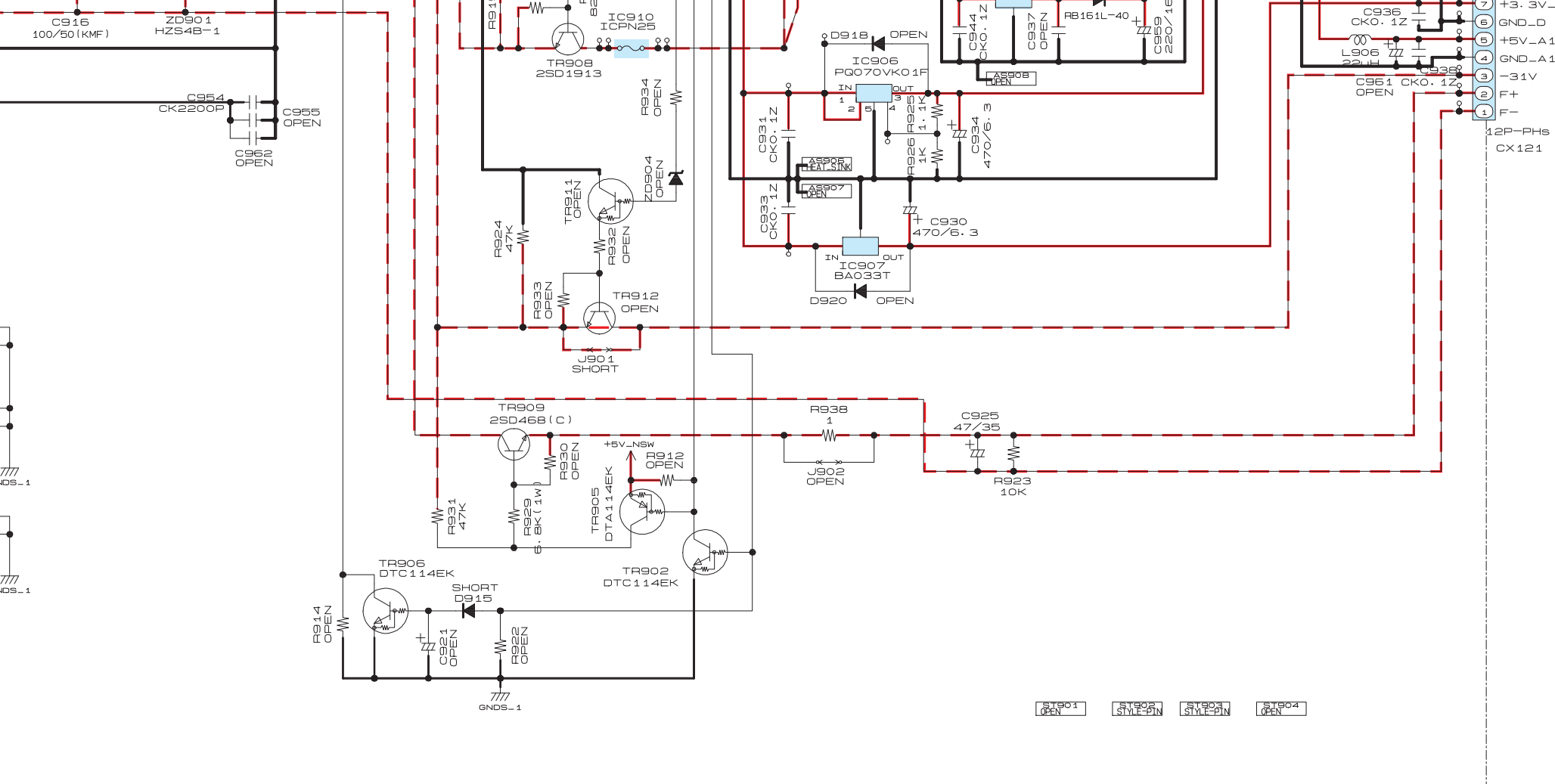
Parts marked with this symbol  have a leakage current. Use ONLY replacement parts recommended.

CAUTION:

Before returning the unit to the customer, make a (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance of the power card is less than 460kohms, the unit must be repaired.

WARNING

DO NOT return the unit to the customer until the leakage current is corrected.



have critical characteristics.
 mended by the manufacture.

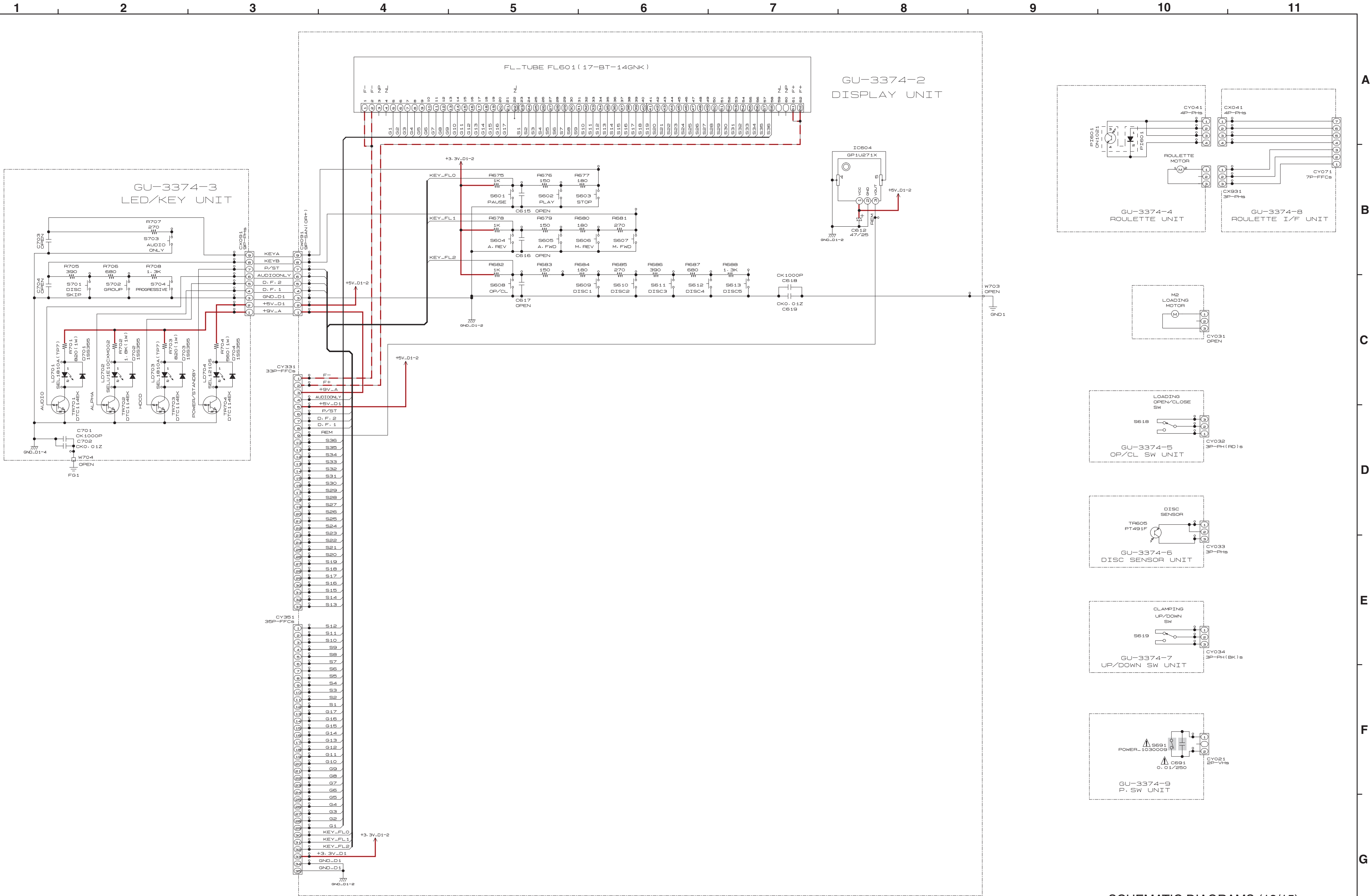
mer, make sure you make either (1) a
 chassis resistance check. If the leakage
 he resistance from chassis to either side
 nms, the unit is defective.

ner until the problem is located and

— + B LINE
 - - - - - B LINE

SCHEMATIC DIAGRAMS (12/15) GU-3374-1 POWER UNIT

SCHEMATIC DIAGRAMS (13/15)



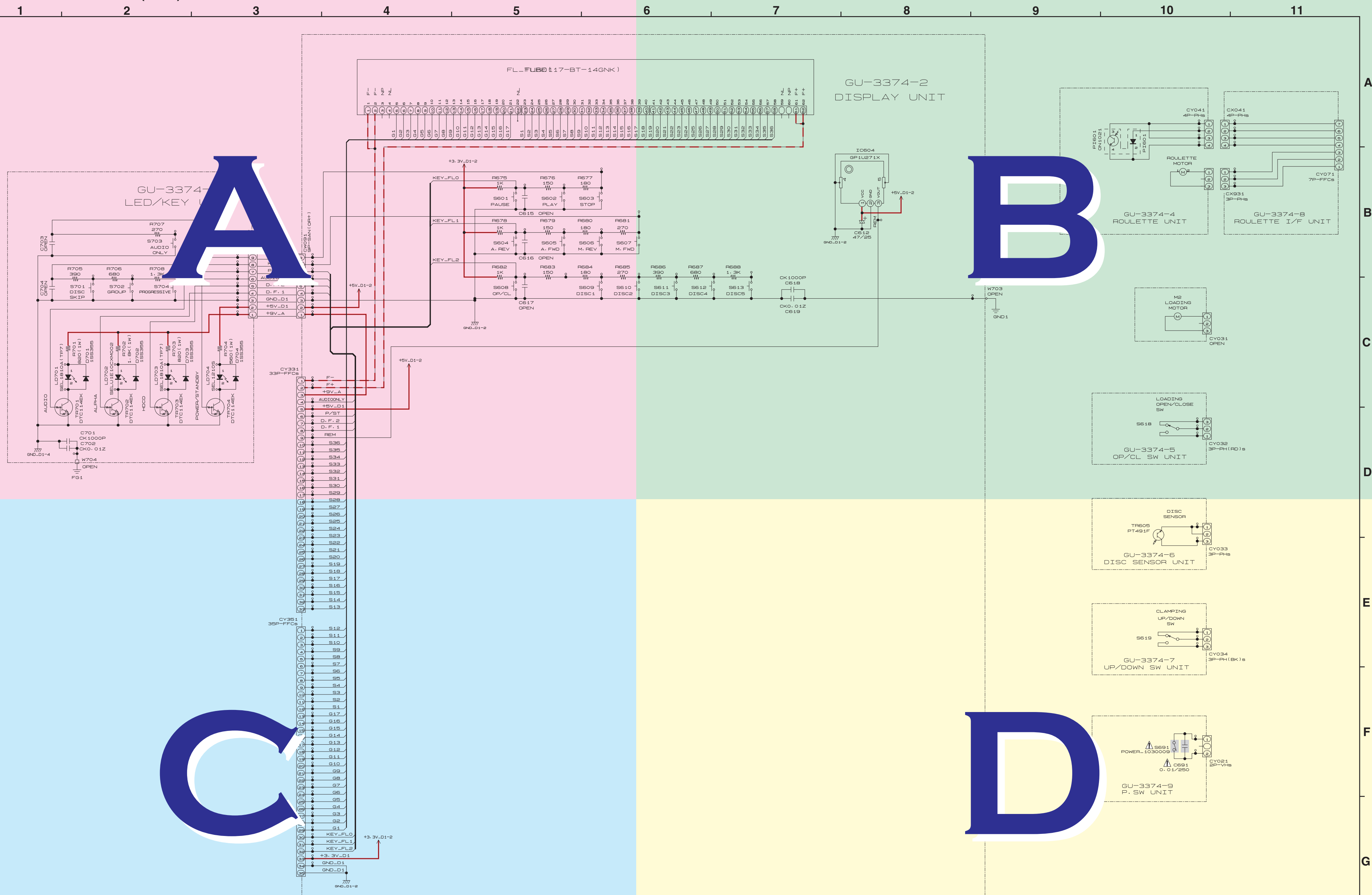
NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

WARNING
Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a
leakage current check or (2) a line to chassis resistance check. If the leakage
current exceeds 0.5 milliamps, or if the resistance from chassis to either side
of the power card is less than 460kohms, the unit is defective.
WARNING
DO NOT return the unit to the customer until the problem is located and
corrected.

— + B LINE
- - - - - B LINE

SCHEMATIC DIAGRAMS (13/15)
GU-3374-2 DISPLAY UNIT
GU-3374-3 LED/KEY UNIT
GU-3374-4 ROULETTE UNIT
GU-3374-5 OP/CL SW UNIT
GU-3374-6 DISC SENSOR UNIT
GU-3374-7 UP/DOWN SW UNIT
GU-3374-8 ROULETTE I/F UNIT
GU-3374-9 P. SW UNIT

SCHEMATIC DIAGRAMS (13/15)



NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

WARNING

Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacture.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 millamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

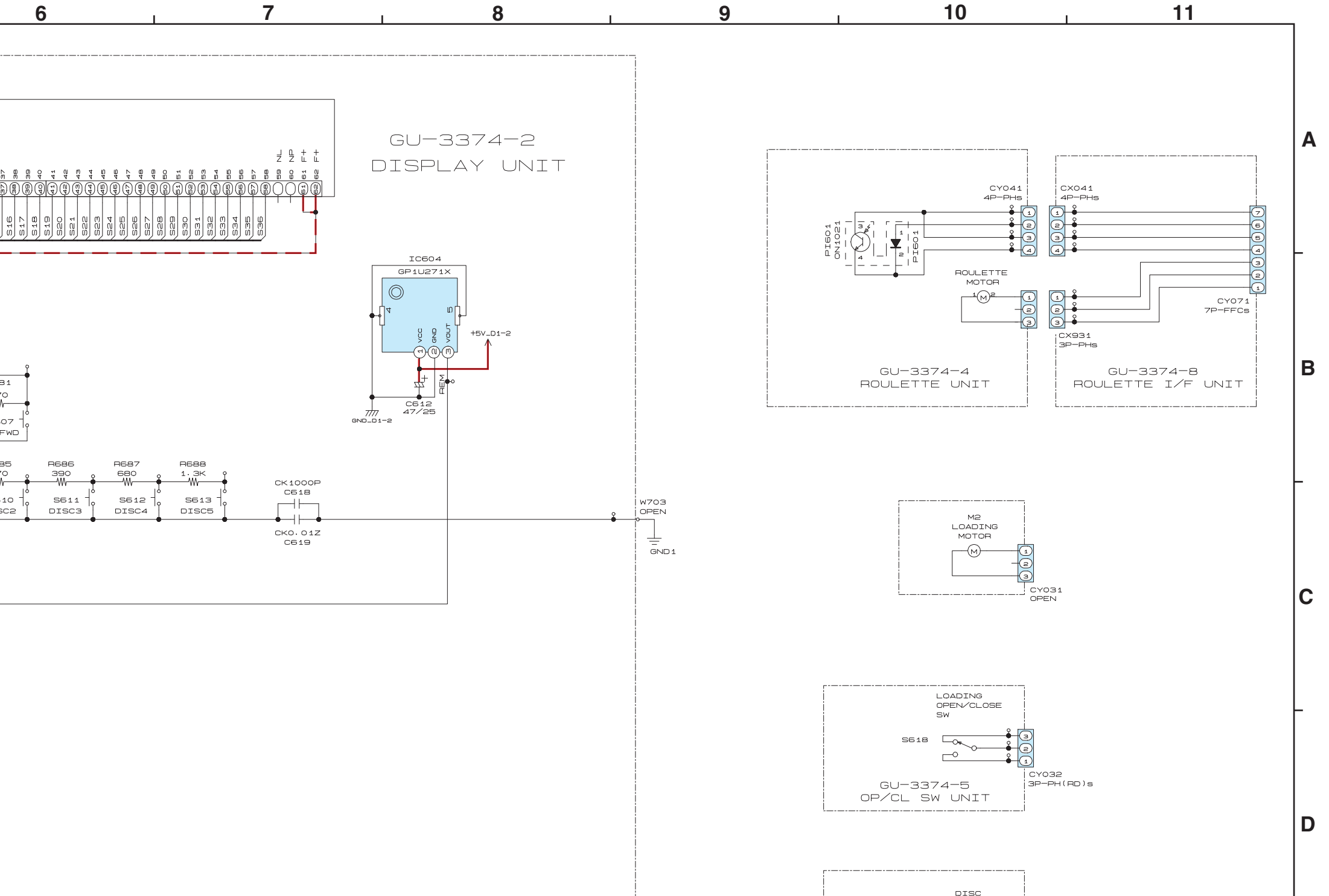
WARNING

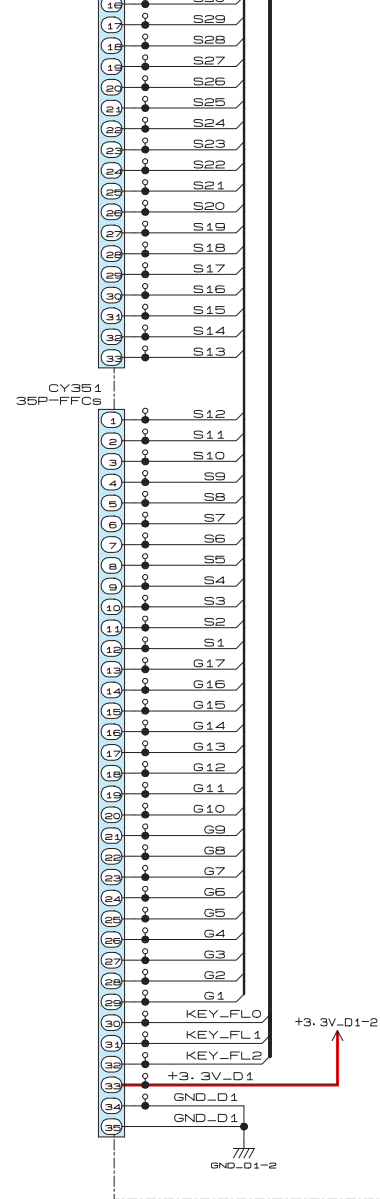
DO NOT return the unit to the customer until the problem is located and corrected.

— + B LINE
- - - - - B LINE

SCHEMATIC DIAGRAMS (13/15)

GU-3374-2 DISPLAY UNIT
GU-3374-3 LED/KEY UNIT
GU-3374-4 ROULETTE UNIT
GU-3374-5 OP/CL SW UNIT
GU-3374-6 DISC SENSOR UNIT
GU-3374-7 UP/DOWN SW UNIT
GU-3374-8 ROULETTE I/F UNIT
GU-3374-9 P.SW UNIT





NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

WARNING

Parts marked with this symbol  have a
Use ONLY replacement parts recommended

CAUTION:

Before returning the unit to the customer, make a
leakage current check or (2) a line to chassis
current exceeds 0.5 milliamps, or if the resistance
of the power card is less than 460kohms, the

WARNING

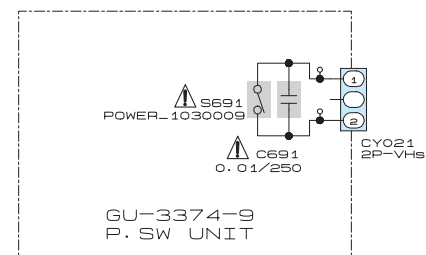
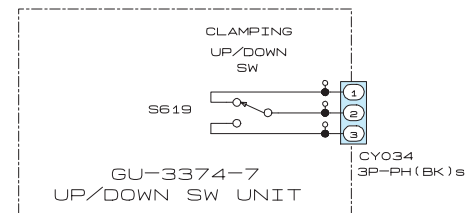
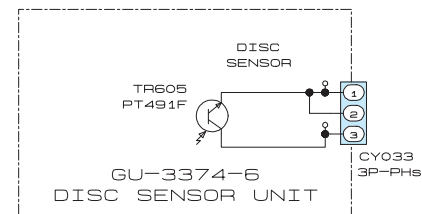
DO NOT return the unit to the customer until
corrected.

have critical characteristics.
recommended by the manufacture.

mer, make sure you make either (1) a
chassis resistance check. If the leakage
he resistance from chassis to either side
hms, the unit is defective.

ner until the problem is located and

————— + B LINE
- - - - - - - - - - - B LINE



SCHEMATIC DIAGRAMS (13/15)

GU-3374-2 DISPLAY UNIT

GU-3374-3 LED/KEY UNIT

GU-3374-4 ROULETTE UNIT

GU-3374-5 OP/CL SW UNIT

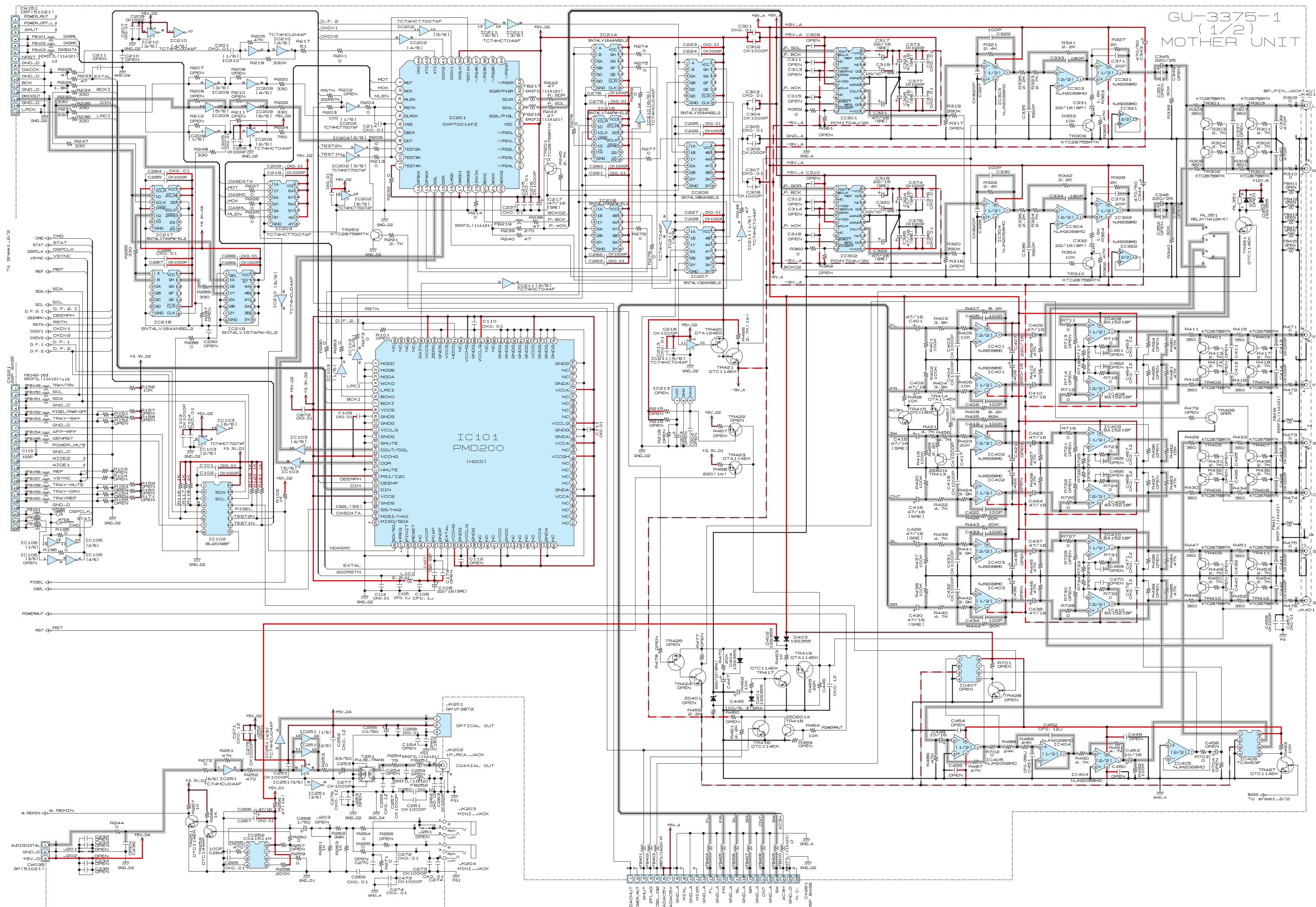
GU-3374-6 DISC SENSOR UNIT

GU-3374-7 UP/DOWN SW UNIT

GU-3374-8 ROULETTE I/F UNIT

GU-3374-9 P.SW UNIT

SCHEMATIC DIAGRAMS (14/15)



NOTICE

ALL RESISTANCE VALUES IN OHM. K=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT MO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

WARNING

Parts marked with this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacture.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

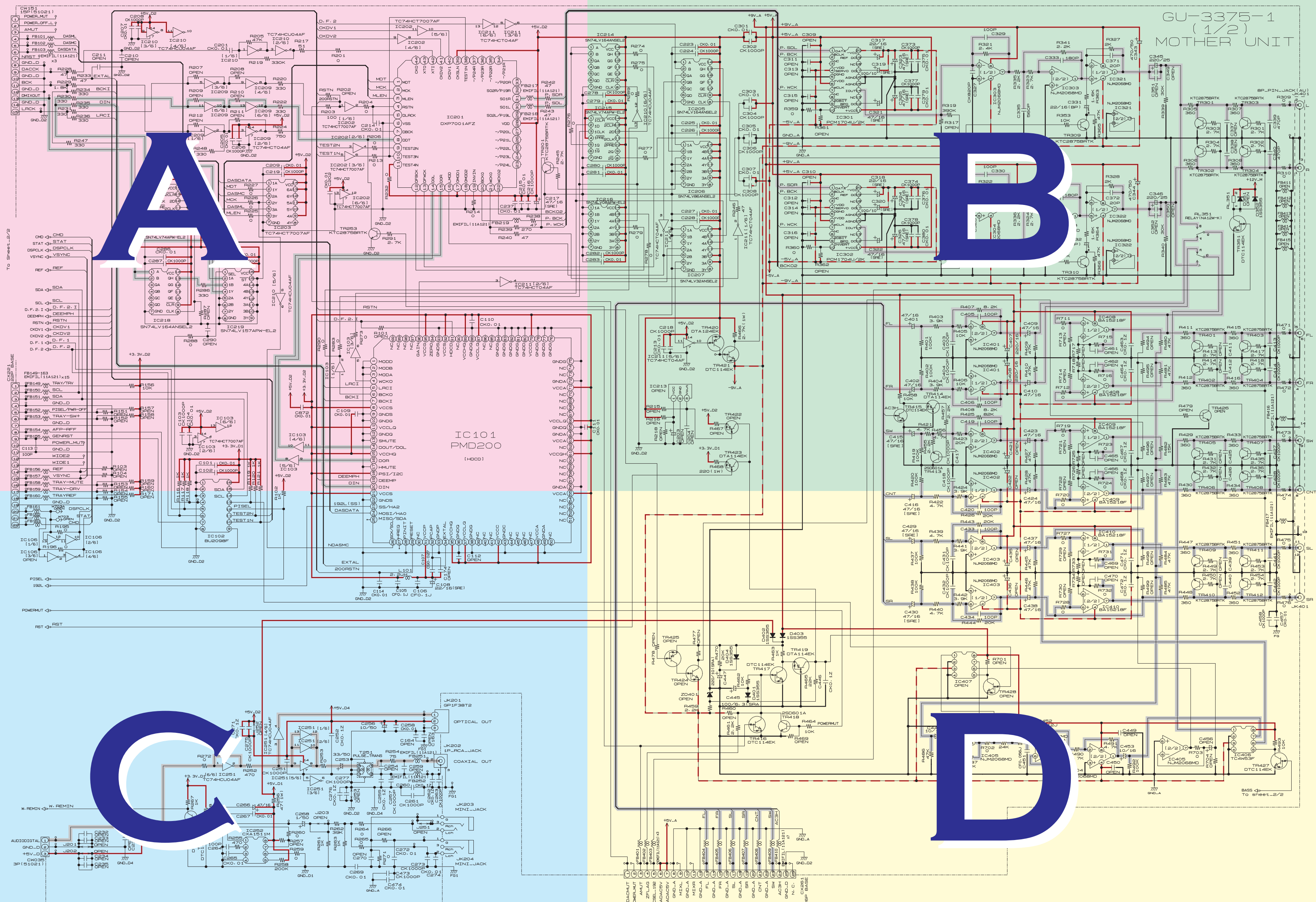
WARNING

DO NOT return the unit to the customer until the problem is located and corrected.

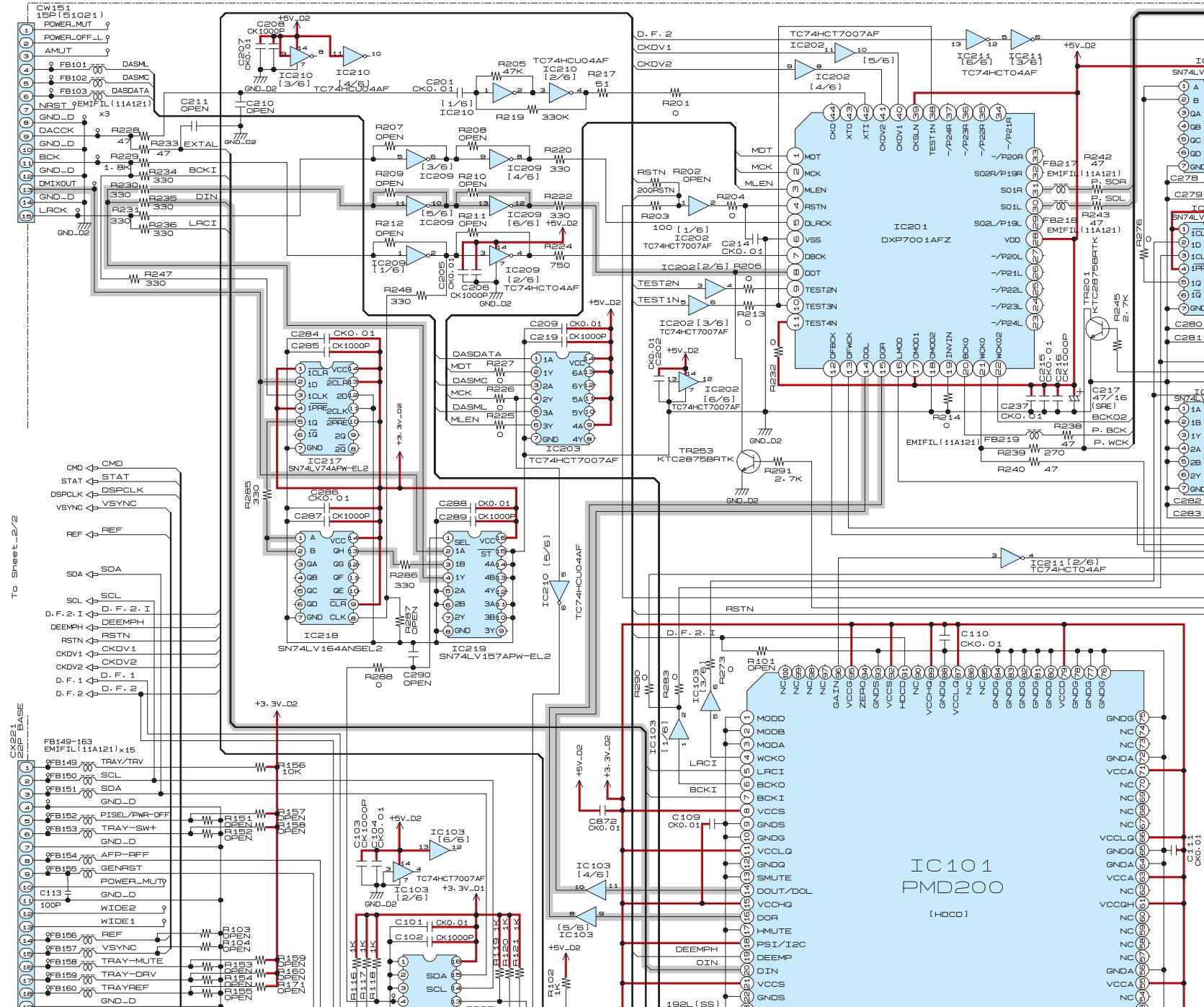
 + B LINE
 - B LINE
 SIGNAL LINE

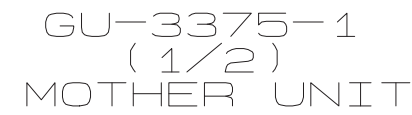
SCHEMATIC DIAGRAMS (14/15)
GU-3375-1 MOTHER UNIT(1/2)

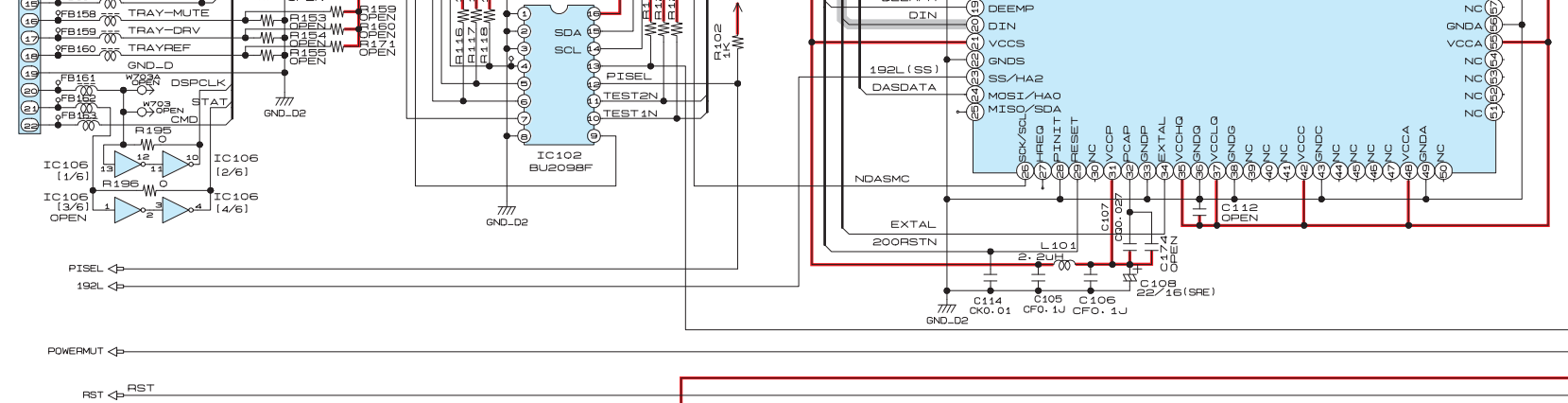
SCHEMATIC DIAGRAMS (14/15)

SCHEMATIC DIAGRAMS (14/15)
GU-3375-1 MOTHER UNIT(1/2)

A horizontal timeline with six numbered segments: 1, 2, 3, 4, 5, and 6.





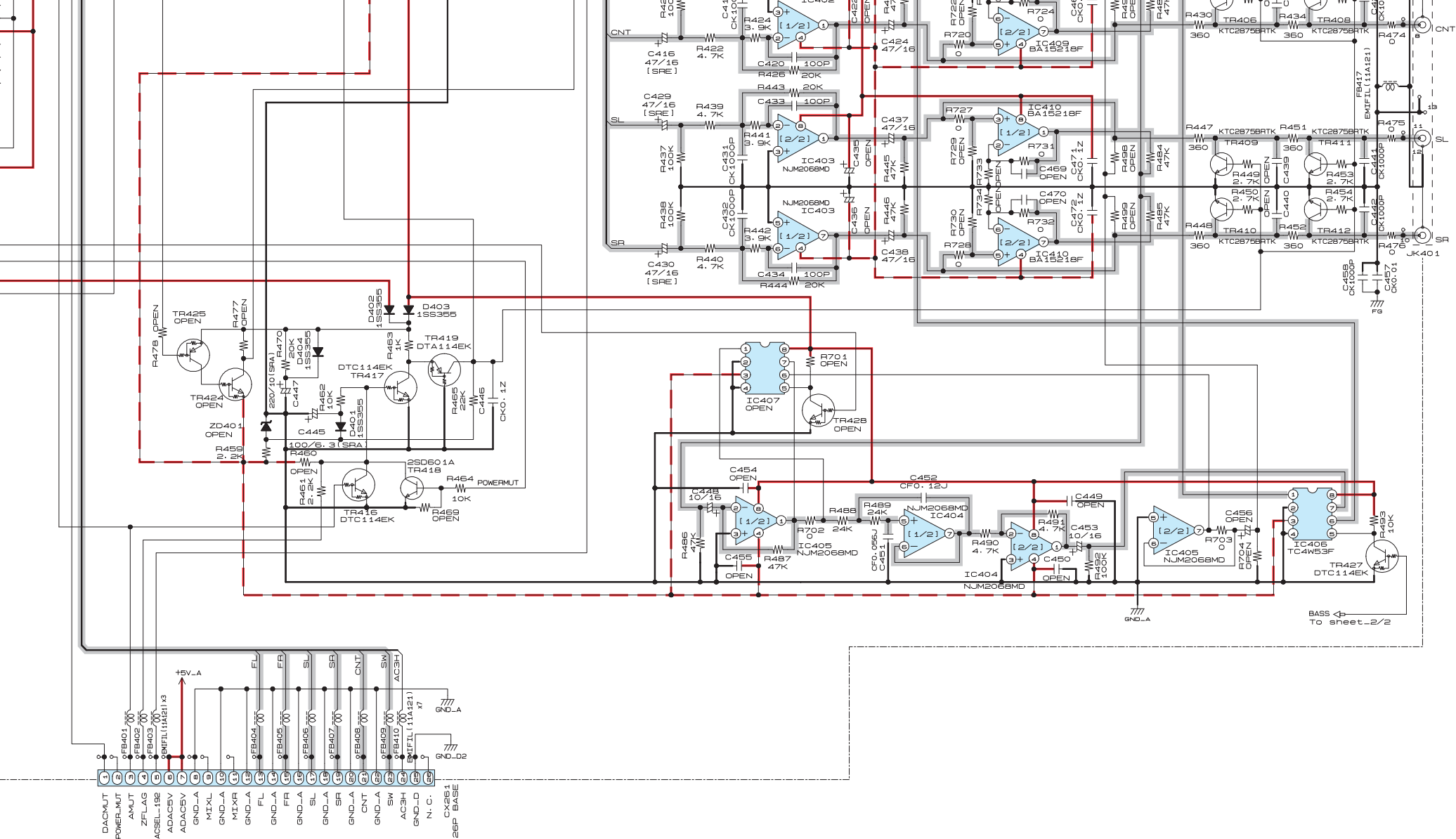


NOTICE

WARNING

CAUTION:

WARNING



have critical characteristics.
recommended by the manufacture.

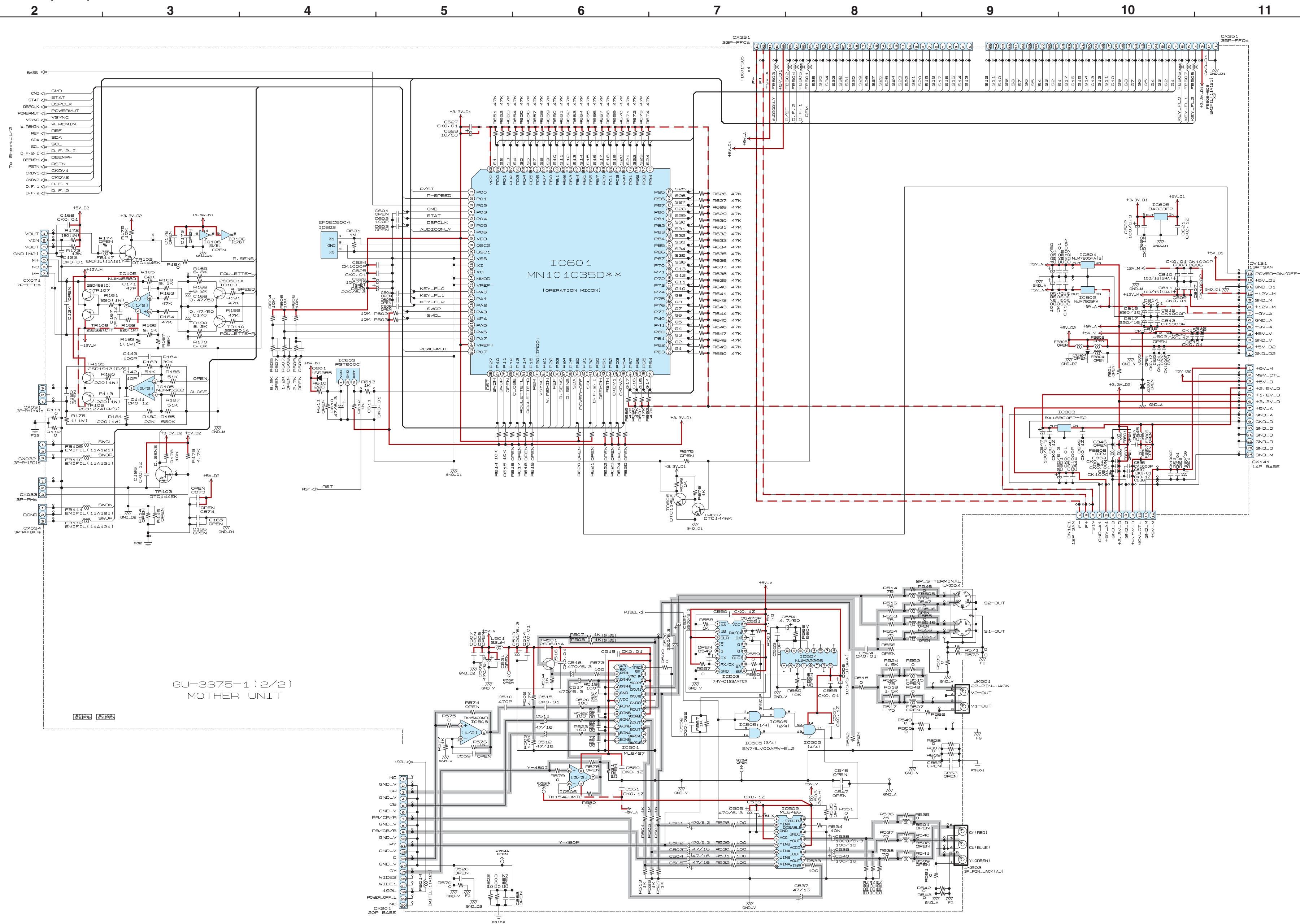
mer, make sure you make either (1) a
chassis resistance check. If the leakage
the resistance from chassis to either side
nms, the unit is defective.

ner until the problem is located and

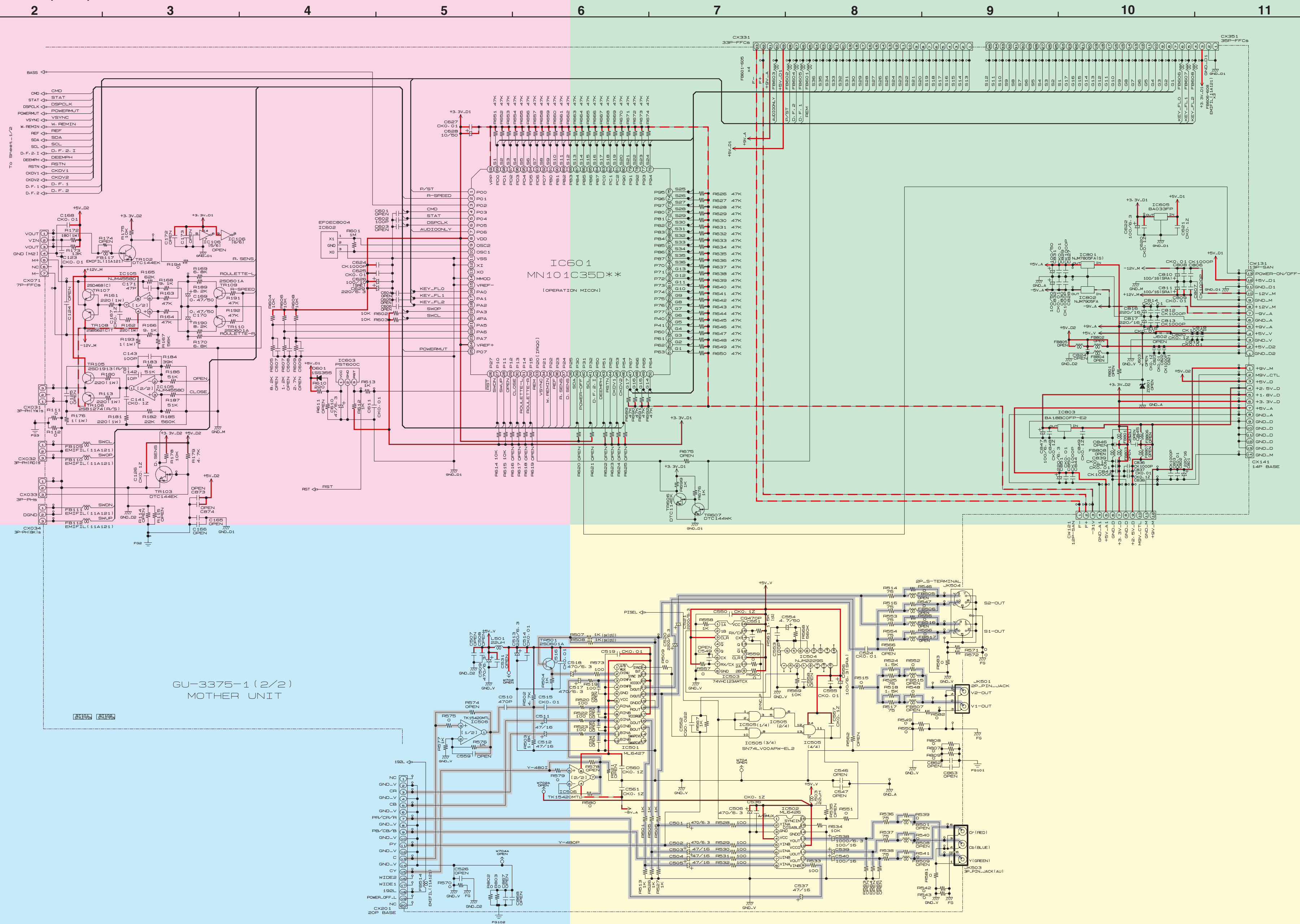
— + B LINE
- - - - -B LINE
— SIGNAL LINE

SCHEMATIC DIAGRAMS (14/15) GU-3375-1 MOTHER UNIT(1/2)

SCHEMATIC DIAGRAMS (15/15)

SCHEMATIC DIAGRAMS (15/15)
GU-3375-1 MOTHER UNIT(2/2)

SCHEMATIC DIAGRAMS (15/15)



NOTICE

ALL RESISTANCE VALUES IN OHM. K=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

WARNING

Parts marked with this symbol  have critical characteristics. Use ONLY replacement parts recommended by the manufacture.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460kohms, the unit is defective.

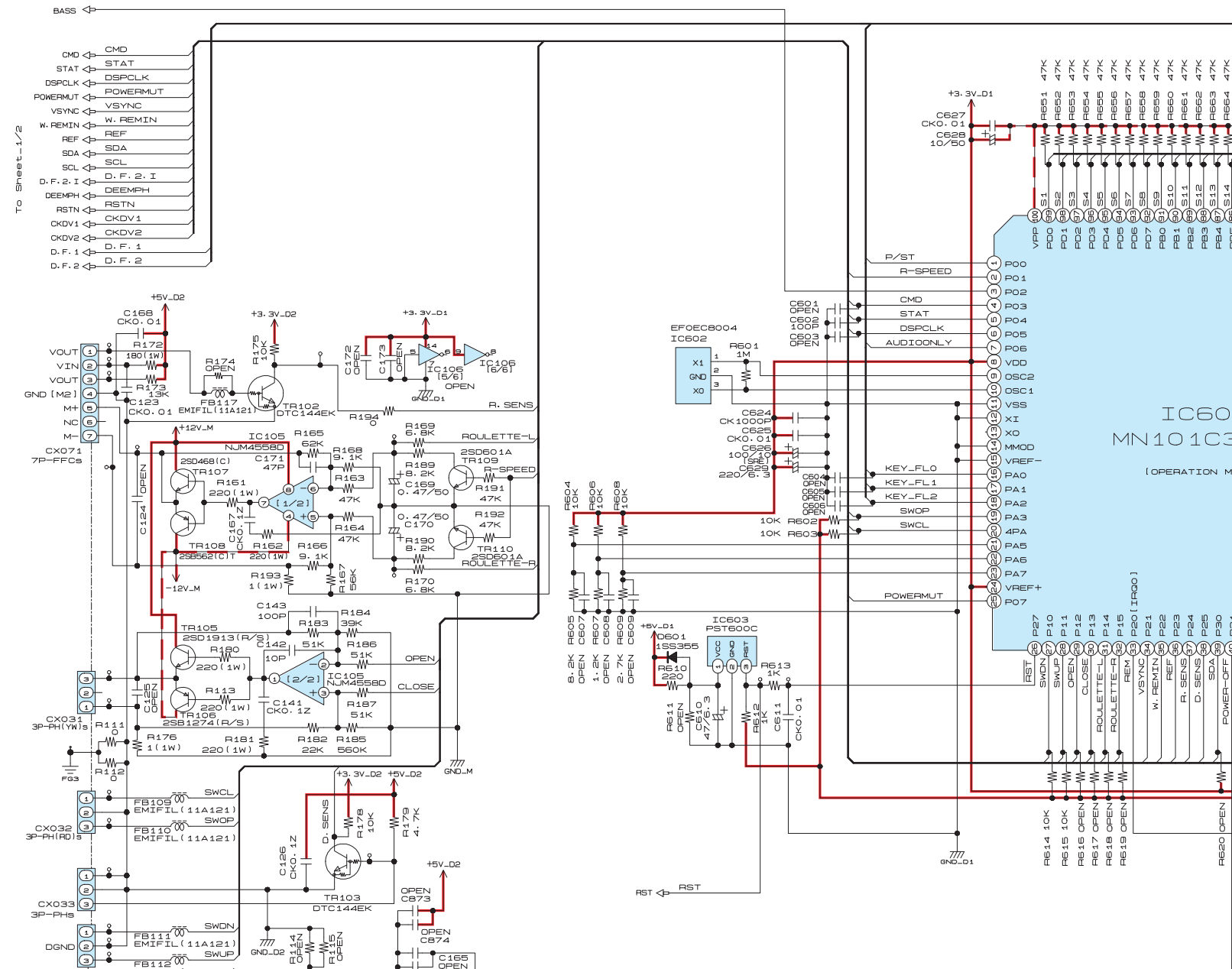
WARNING

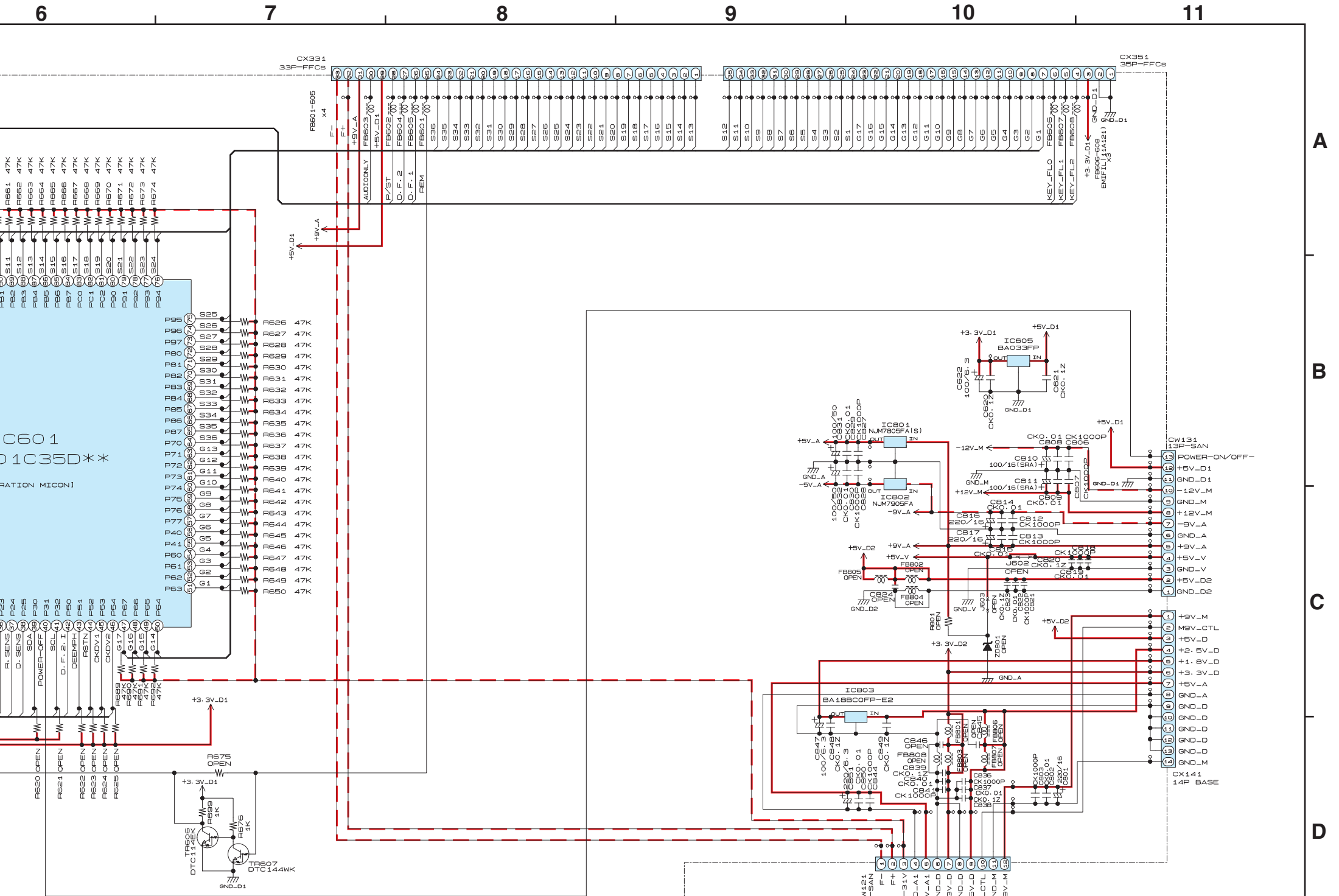
DO NOT return the unit to the customer until the problem is located and corrected.

 + B LINE
 - B LINE
 SIGNAL LINE

SCHEMATIC DIAGRAMS (15/15)

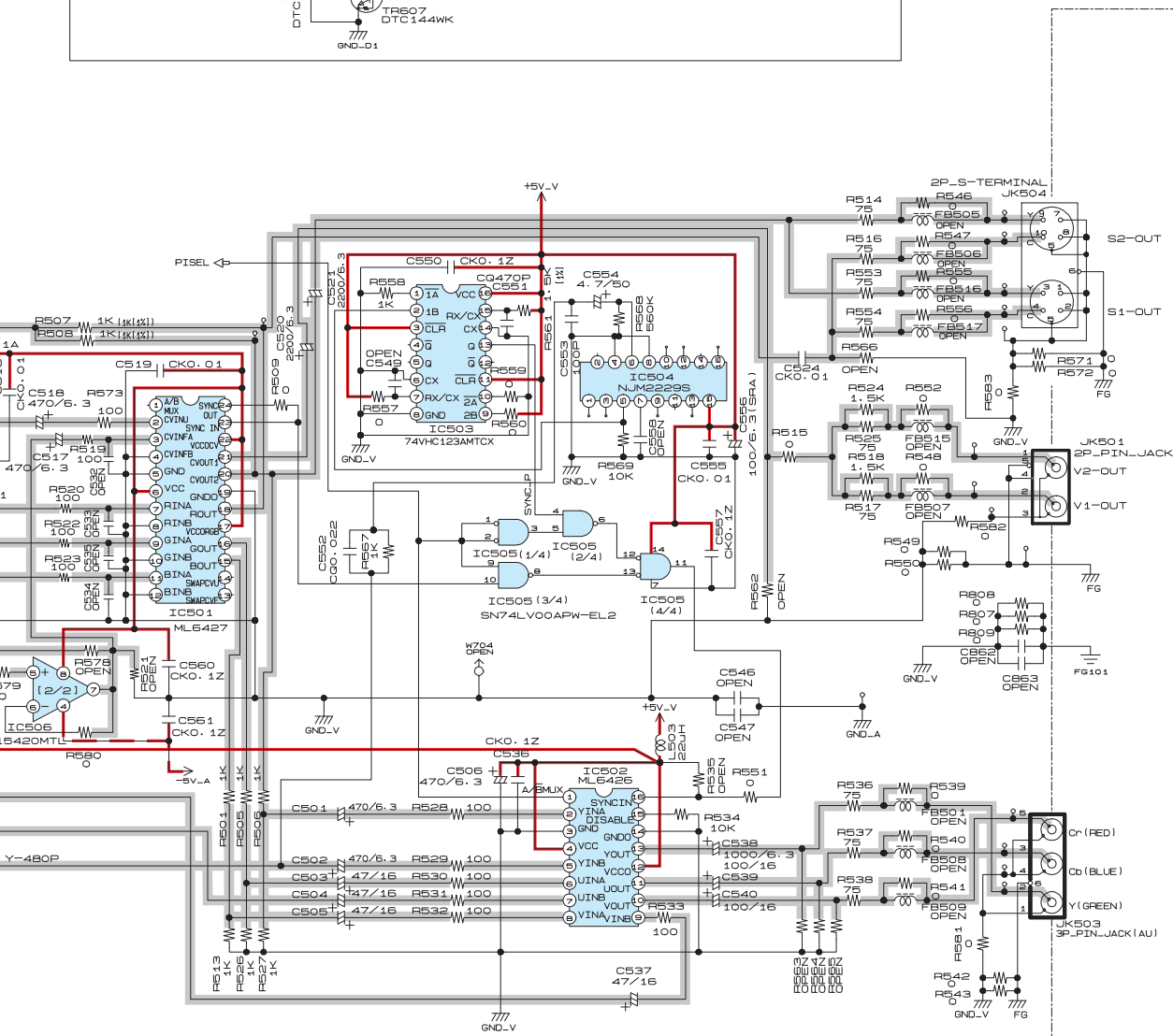
A horizontal number line with arrows at both ends. It has six major tick marks labeled 1, 2, 3, 4, 5, and 6 from left to right. There are also smaller, unlabeled tick marks between each pair of major tick marks, representing the midpoints between integers.







DO NOT return the unit to the customer until corrected.



SCHEMATIC DIAGRAMS (15/15)
GU-3375-1 MOTHER UNIT(2/2)

E

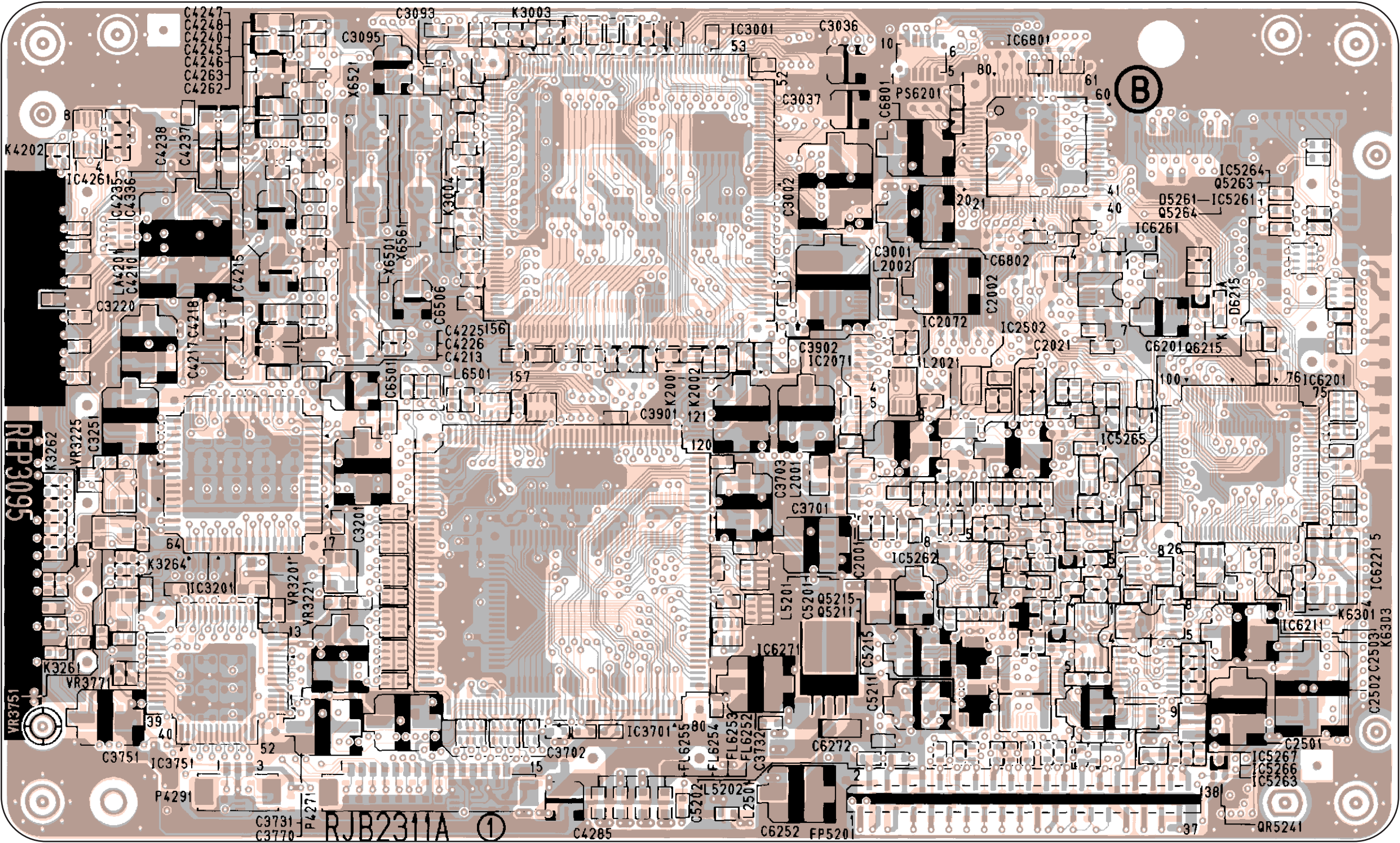
F

G

H

13. PRINTED WIRING BOARDS

MAIN P.W.B. UNIT Ass'y



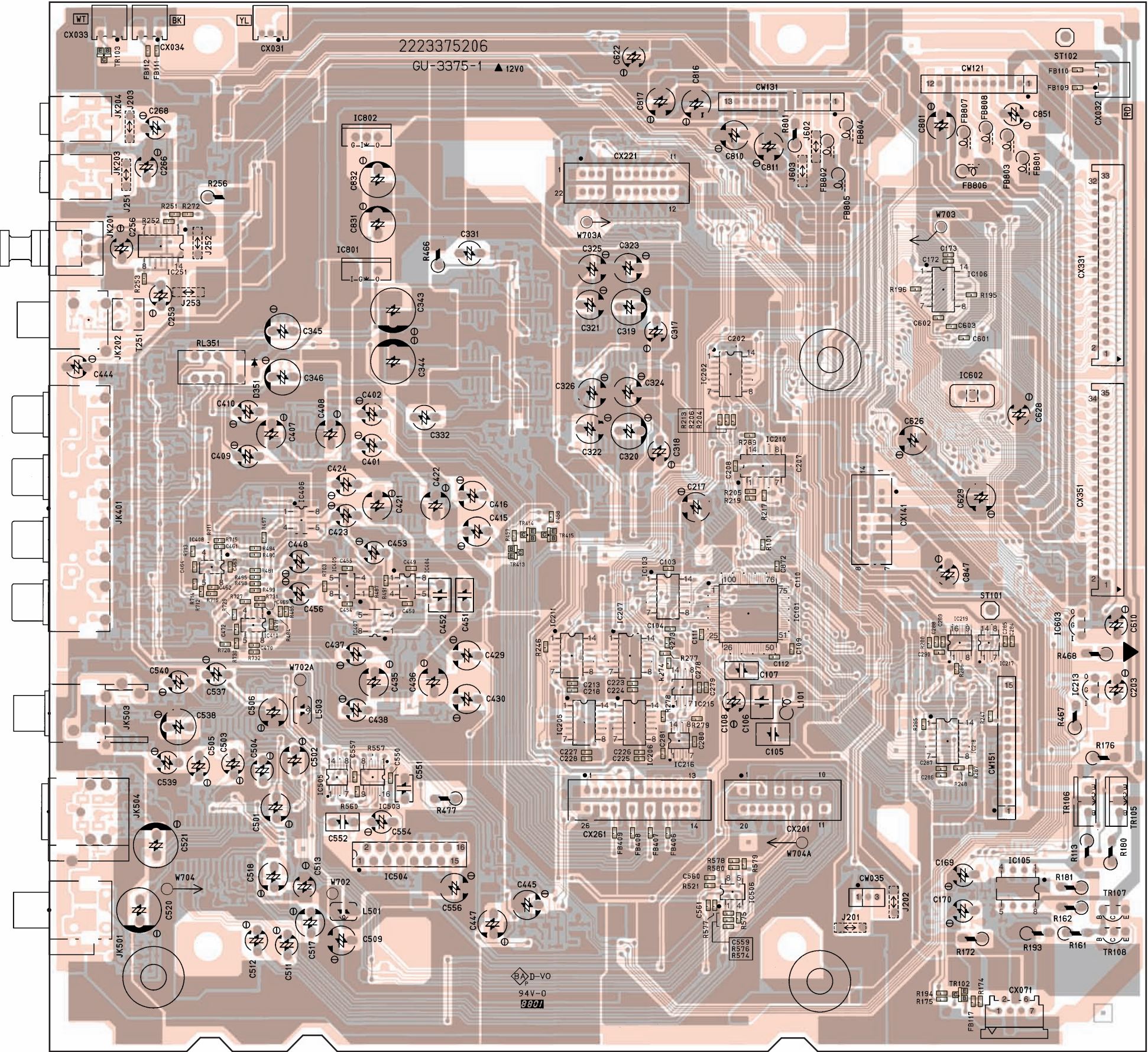
A
B
C
D
E

COMPONENT SIDE

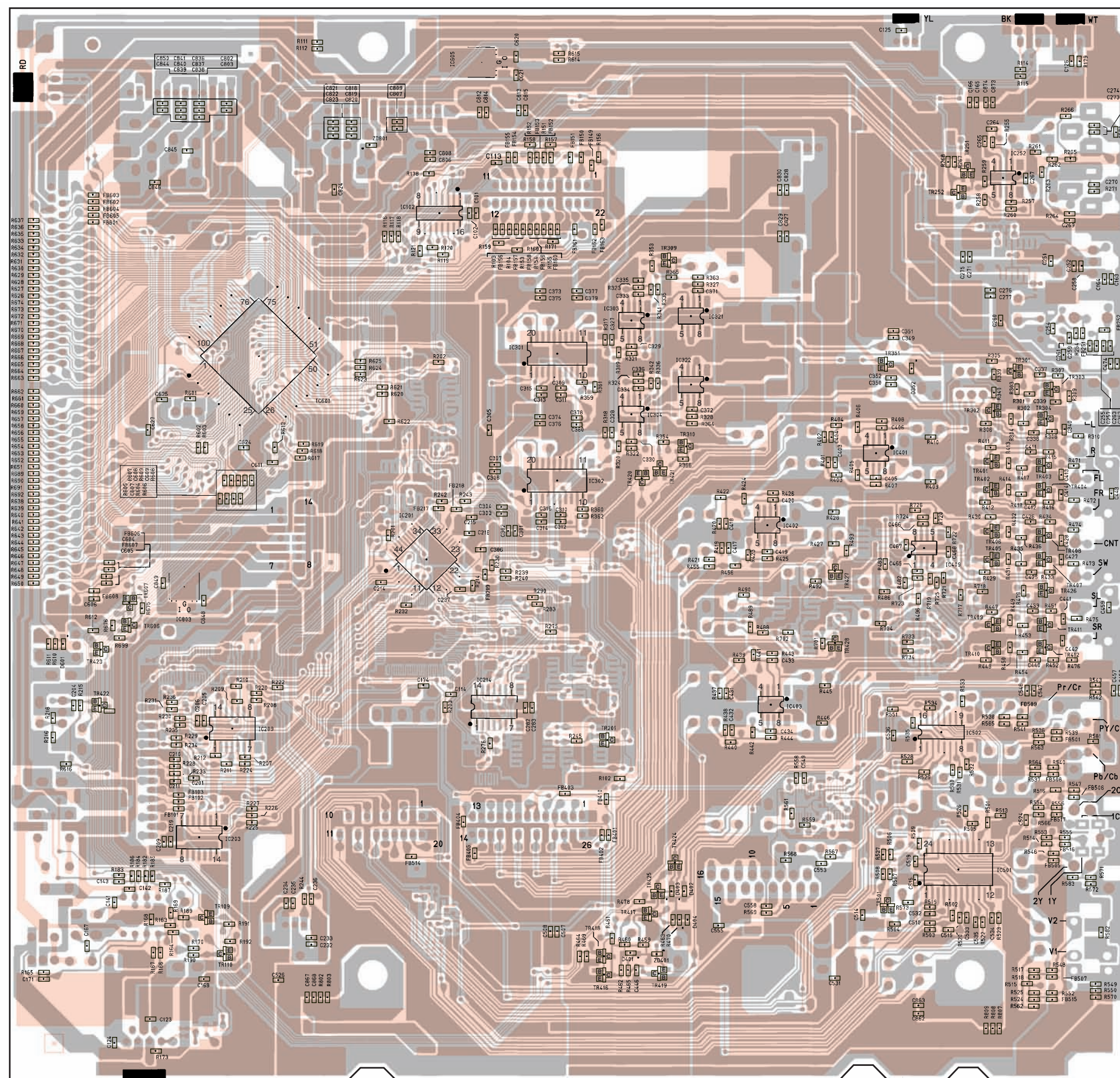


63

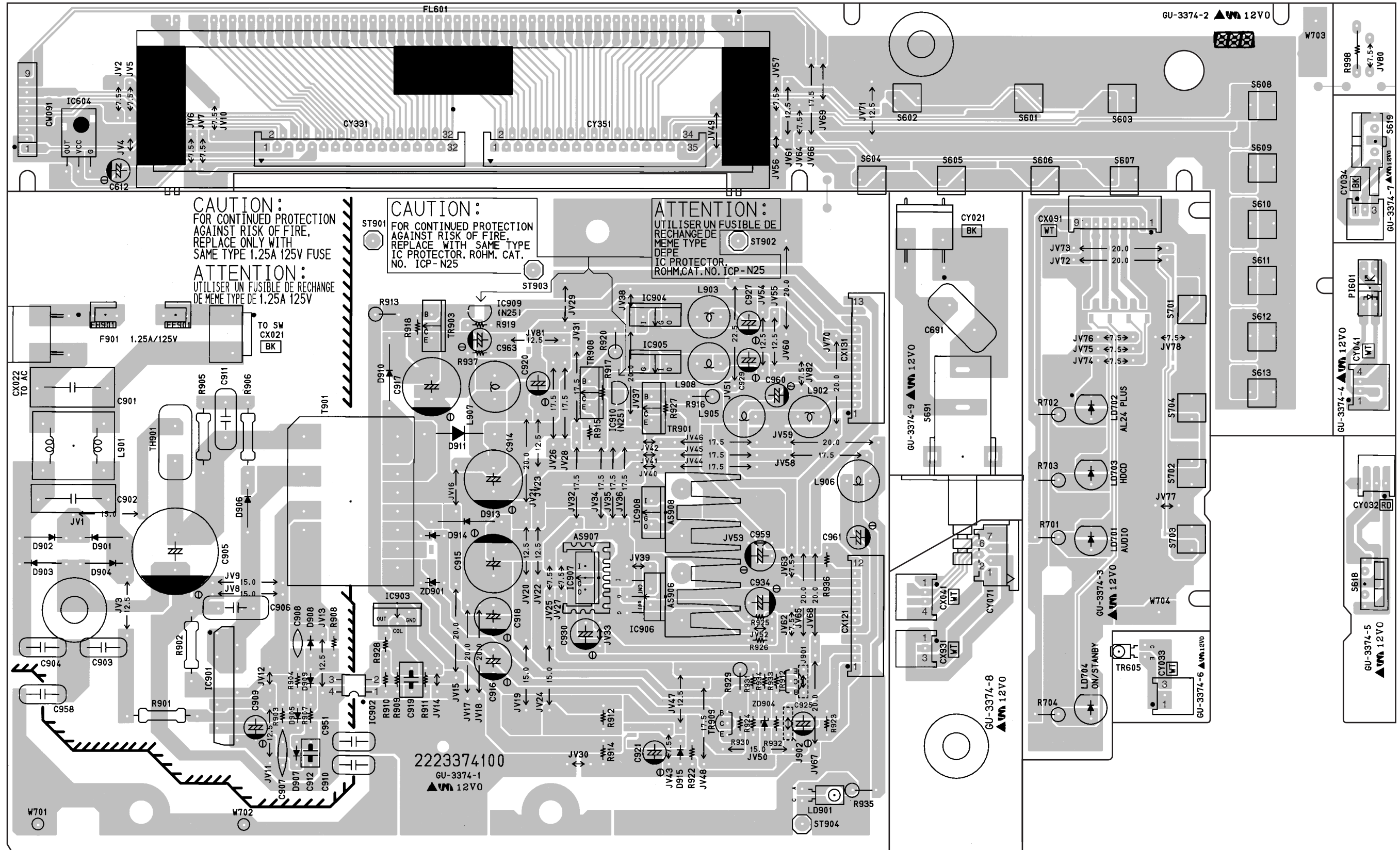
GU-3375 MOTHER P.W.B. UNIT Ass'y



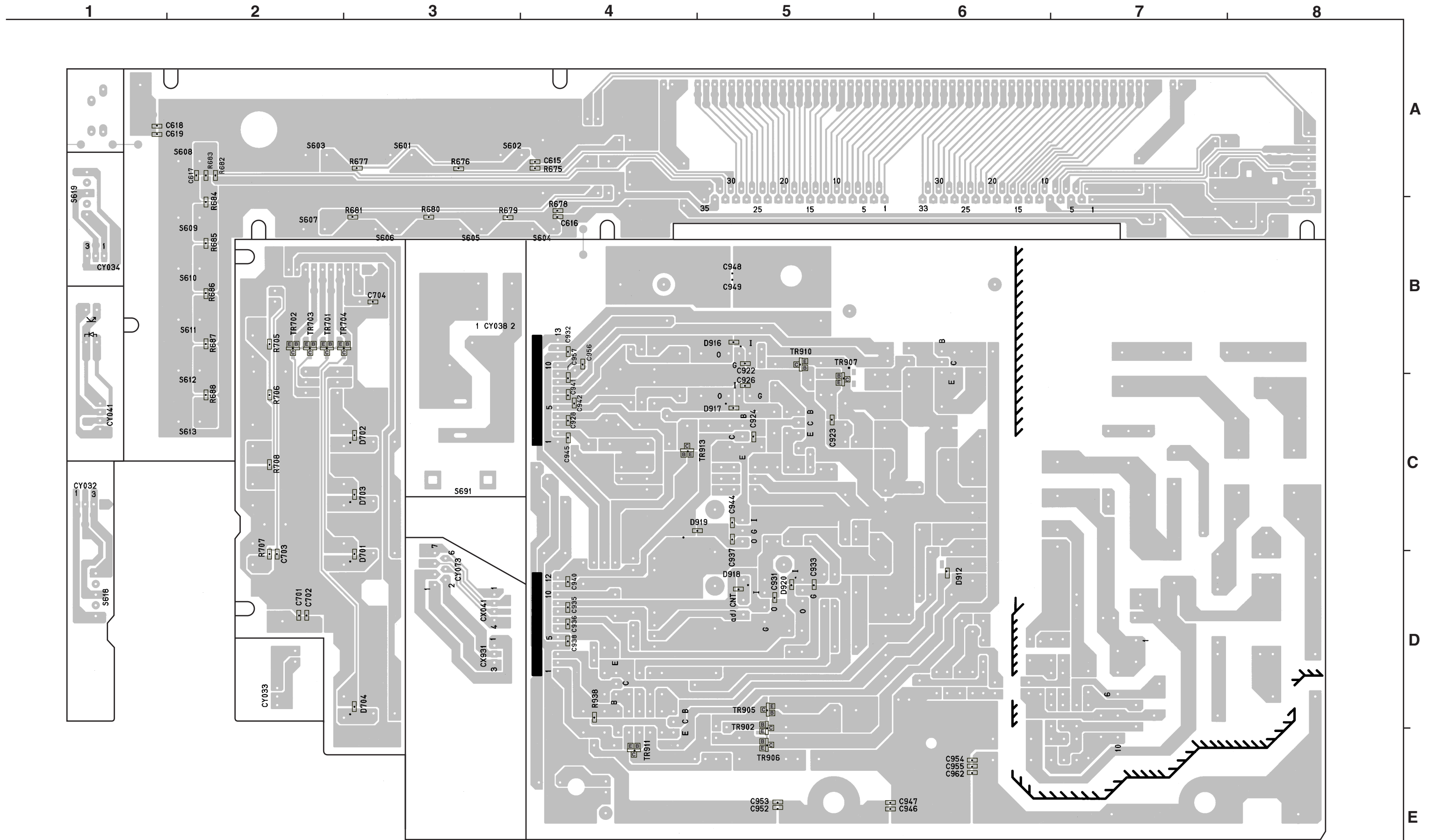
COMPONENT SIDE

**FOIL SIDE**

GU-3374 DISPLAY P.W.B. UNIT Ass'y

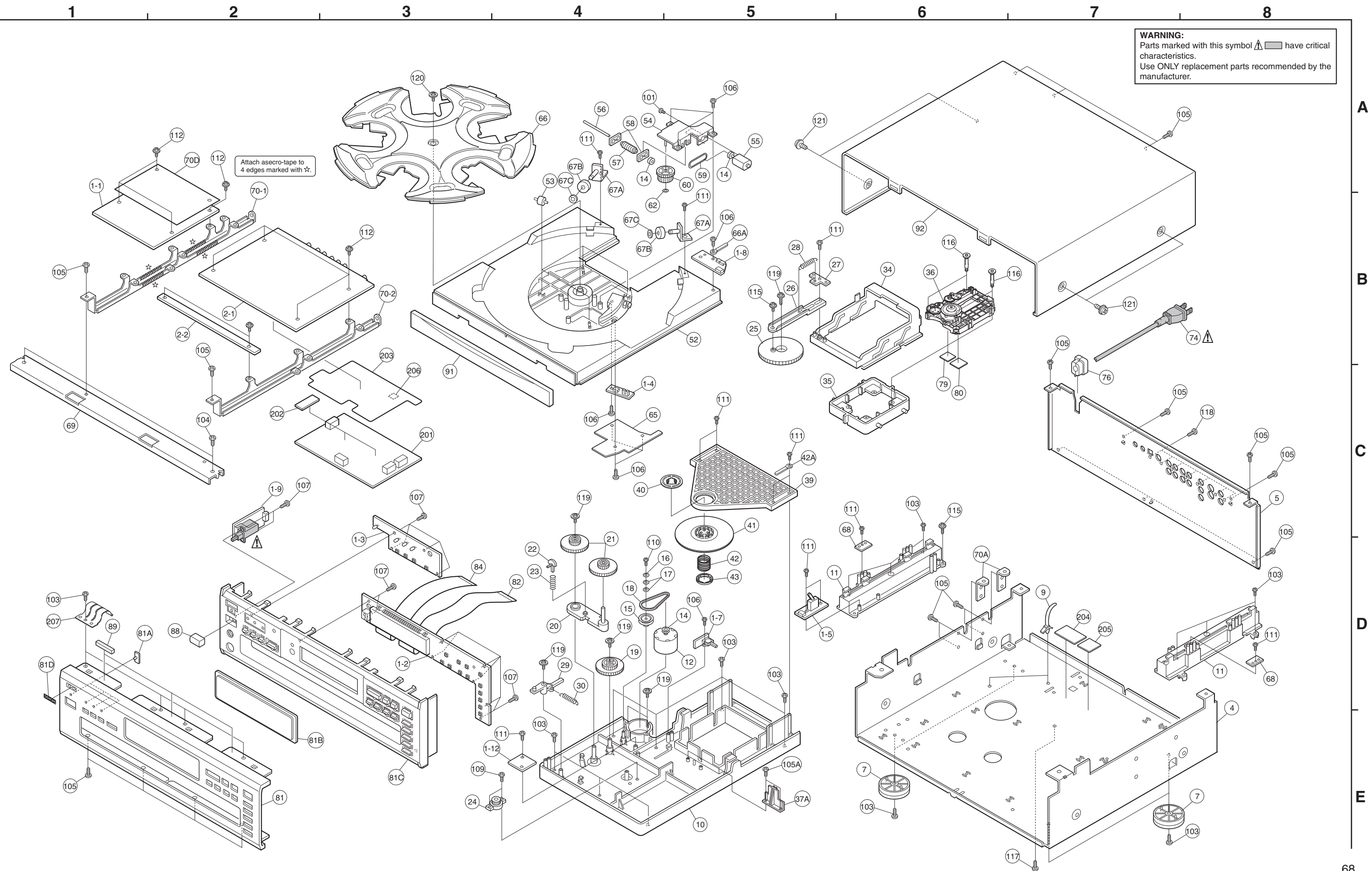


COMPONENT SIDE



FOIL SIDE

14. EXPLODED VIEW



PARTS LIST OF EXPLODED VIEW

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|---------------------------|---------|------|----------|--------------|--------------------------|--------------------|------|
| 1 | GU-3374 | Display unit Ass'y | | 1 | 52 | 431 0421 401 | Loader frame | | 1 |
| 1-1 | | Power unit | | | 53 | 421 0758 009 | Roller | | 4 |
| 1-2 | | Display unit | | | 54 | 441 1913 106 | Gear bracket Ass'y | | 1 |
| 1-3 | | LED/Key unit | | | 55 | 217 0172 002 | Power motor | | 1 |
| 1-4 | | Roulette unit | | | 56 | 422 0641 009 | Shaft | | 1 |
| 1-5 | | Open/Close switch unit | | | 57 | 424 0264 204 | Worm gear | | 1 |
| 1-7 | | Up/Down switch unit | | | 58 | 425 0246 102 | Holder | | 2 |
| 1-8 | | Roulette I/F unit | | | 59 | 423 0076 004 | Belt | | 1 |
| 1-9 | | Power switch unit | | | 60 | 424 0265 009 | Helical gear | | 1 |
| 1-12 | | Disc sensor unit | | | 62 | 475 1157 017 | Slit washer t0.5 | | 1 |
| 2 | GU-3375 | Mother unit Ass'y | | 1 | ★ 63 | 203 5062 079 | 3P PH connector cord | CN931 | 1 |
| 2-1 | | Mother unit | | | ★ 64 | 203 6232 031 | 4P PH connector cord | CN041 | 1 |
| 2-2 | | FFC fixed PWB | | | 65 | 415 0835 008 | Motor cover | | 1 |
| 4 | 411 1920 606 | Chassis | | 1 | 66 | 421 0776 007 | Roulette Ass'y | | 1 |
| 5 | 105 1378 104 | Rear panel | | 1 | 66A | 445 8028 009 | Cord holder | | 1 |
| 7 | 104 0313 015 | Foot Ass'y | | 4 | ★ 67 | 009 0211 003 | 7P FFC cable (1.25) | CN071 | 1 |
| 9 | 449 0113 008 | Snap band (SG-110) | | 2 | 67A | 441 1933 005 | Roller bracket Ass'y | | 2 |
| 10 | 449 0161 607 | Mecha. base | | 1 | 67B | 421 0764 006 | Roulette roller | | 2 |
| 11 | 439 0022 309 | Side base | | 2 | 67C | 475 1157 059 | Slit washer t0.5 | | 2 |
| 12 | 217 0158 000 | Loading motor | | 1 | 68 | 412 4532 007 | Side plate | | 2 |
| ★ 13 | 203 5062 095 | 3P PH connector cord | CN031 | 1 | 69 | 411 1318 247 | Front angle | | 1 |
| 14 | 421 0379 103 | Motor pulley | | 3 | 70-1 | 441 1909 000 | Stay | | 1 |
| 15 | 424 0221 001 | Pully gear | | 1 | 70-2 | 441 1909 013 | Stay | | 1 |
| 16 | 475 1133 015 | 2 washer-B | | 1 | 70A | 441 1942 009 | Power bracket | | 2 |
| 17 | 477 0070 078 | Washer | | 2 | ★ 70B | 203 5215 059 | 3P VH-VH connector cord | CN021 | 1 |
| 18 | 423 0069 011 | Belt | | 1 | ★ 70C | 445 0033 005 | Wire clamp band | | 2 |
| 19 | 424 0261 003 | Helical gear | | 1 | 70D | 414 0915 006 | Power shield | | 1 |
| 20 | 433 0639 105 | YUSEI base | | 1 | ⚠ 74 | 206 2188 007 | AC cord with connector | | 1 |
| 21 | 424 0266 008 | YUSEI gear | | 2 | 76 | 445 0056 008 | Cord bush | | 1 |
| 22 | 431 0422 002 | Lock pin | | 1 | ★ 78 | 204 2812 018 | 9P PH-SAN connector cord | CN091 | 1 |
| 23 | 463 0922 208 | Spring (Y) | | 1 | 79 | 461 1109 011 | PWB rubber | D-Face single side | 1 |
| 24 | 421 0759 008 | Mini damper | | 1 | 80 | 461 1109 008 | PWB rubber | D-Face both sides | 1 |
| 25 | 424 0263 108 | Cam gear | | 1 | 81 | 144 2737 011 | Front panel | | 1 |
| 26 | 435 0135 003 | Crank | | 1 | 81A | 143 1073 003 | Lens | | 1 |
| 27 | 441 1912 000 | Spring hook | | 1 | 81B | 143 1068 005 | Window | | 1 |
| 28 | 463 0923 003 | Spring (C) | | 1 | 81C | 146 2215 319 | Inner panel | | 1 |
| 29 | 421 0755 002 | Loader lock pin | | 1 | 81D | 131 9004 013 | DENON mark | | 1 |
| 30 | 463 0924 002 | Spring (L) | | 1 | 82 | 009 0194 023 | 35P FFC cable (1.25) | CN351 | 1 |
| ★ 31 | 203 4986 033 | 3P PH-PH connector cord | CN032 | 1 | 84 | 009 0194 010 | 33P FFC cable (1.25) | CN331 | 1 |
| 34 | 435 0136 206 | Slider | | 1 | 88 | 113 1689 001 | P. switch knob | | 1 |
| 35 | 431 0425 009 | PU frame | | 1 | 89 | 461 0598 050 | Insulating rubber | | 3 |
| 36 | 337 0102 004 | DVD Traverse unit | | 1 | ★ 89A | 445 0120 002 | Wire clamber (L=165) | | 1 |
| ★ 37 | 203 4986 020 | 3P PH-PH connector cord | CN034 | 1 | 91 | 146 2164 020 | Loader panel Ass'y | | 1 |
| 37A | 449 0186 006 | Spring plate | | 1 | 92 | 102 0605 015 | Top cover | | 1 |
| 38 | 203 4986 033 | 3P PH-PH cord | CN033 | | ★ 93 | 513 3685 009 | Rating sheet | | 1 |
| 39 | 449 0186 006 | Clamp base | | 1 | ★ 95 | 513 1381 004 | Manufac. date label | | 1 |
| 40 | 421 0773 000 | Spring hook | | 1 | ★ 98 | 513 3364 003 | Transport screw label | | 1 |
| 41 | 421 0775 008 | Clamper | | 1 | ★ 99 | 513 3406 107 | Label (A) | Laser Radiation | 1 |
| 42 | 463 0942 000 | Clamp SP | | 1 | ★ 99A | 513 3541 004 | Screw label | | 1 |
| 42A | 445 0048 016 | Cord holder (L50) | | 4 | | 513 3363 004 | Caution label | | |
| 43 | 421 0074 009 | Spring holder | | 1 | 201 | 221 2123 003 | Main unit Ass'y | | 1 |
| ★ 46 | 009 0221 006 | 38P FFC (1.0) | CN381 | 1 | 202 | 461 1109 024 | PWB rubber | | 2 |
| 47 | 204 6695 008 | 12P PH-SAN connector cord | CW121 | 1 | 203 | 414 0939 008 | Shield plate | | 1 |
| 48 | 204 6696 007 | 13P PH-SAN connector cord | CW131 | 1 | 204 | 461 1083 001 | FFC pad | | 1 |

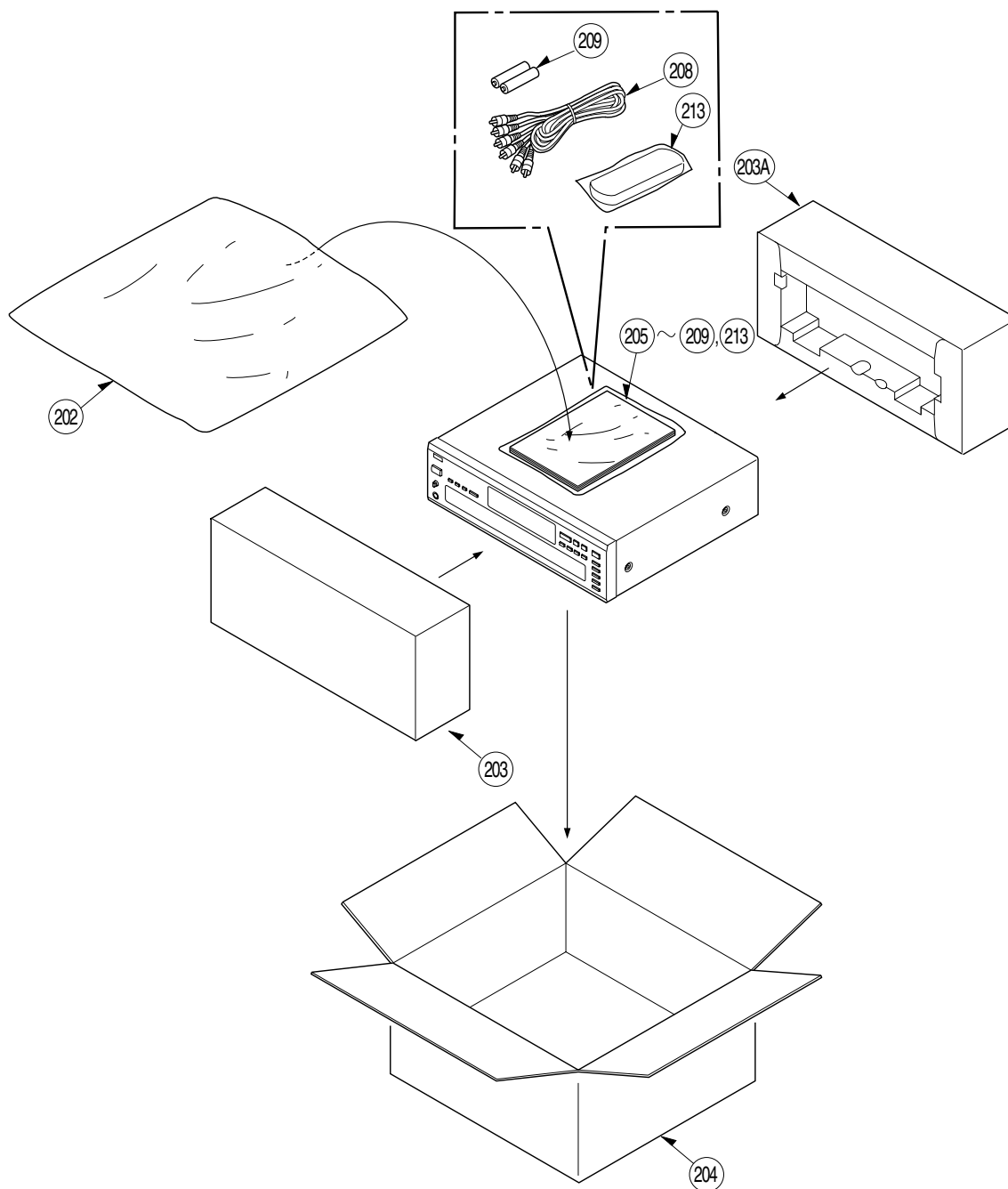
| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|----------------------------|---------|------|
| 205 | 461 1109 037 | PWB rubber | | 1 |
| 206 | 001 0212 037 | Vinyl wire | | 1 |
| 207 | 461 1111 009 | Earth plate | | 3 |
| 208 | 203 5268 006 | 3P connector cord (51021) | CW035 | 1 |
| 209 | 204 6697 006 | 15P connector cord (51021) | CW151 | 1 |
| SCREWS | | | | |
| 101 | 471 1810 019 | Screw 2×3 CPS | | 2 |
| 103 | 473 7002 021 | Screw 3×8 CBTS(S)-B | | 19 |
| 104 | 473 7007 000 | Screw 4×8 CBTS(S)-B | | 2 |
| 105 | 473 7015 018 | Screw 3×8 CBTS(S)-B | | 22 |
| 105A | 473 7500 044 | Screw 3×8 CBTS(P)-B | | 2 |
| 106 | 473 7505 007 | Screw 2.6×8 CBTS(P)-Z | | 11 |
| 107 | 473 7505 023 | Screw 2.6×10 CBTS(P)-Z | | 14 |
| 110 | 473 7507 005 | Screw 2×8 CBTS(P)-B | | 3 |
| 111 | 473 7508 017 | Screw 3×10 CBTS(P)-B | | 10 |
| 112 | 473 8007 025 | Cup screw 3×8 | | 13 |
| 115 | 473 8044 017 | Special screw | | 2 |
| 116 | 412 4821 006 | Fixed pin | | 3 |
| 117 | 473 8068 006 | Special screw | | 1 |
| 118 | 477 0064 123 | Fixing screw | | 8 |
| 119 | 477 0262 006 | Special screw | | 6 |
| 120 | 477 0262 035 | Special screw | | 1 |
| 121 | 477 0263 005 | 3P. swelling screw | | 4 |



PARTS LIST OF TRAVERSE MECHANISM UNIT

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|-----------------------|-----------------|------|
| 201 | 9MR XQ07 42 | Spindle motor ass'y | | 1 |
| 203 | 9MR MS07 12 | Fixed pin | | 3 |
| 204 | 928 0159 002 | Intermediate P.C.B. | | 1 |
| 205 | 928 9019 499 | Screw | | 1 |
| 206 | 928 0151 204 | Floating rubber | | 4 |
| 207 | 9MR DG04 99 | Traverse gear(A) | | 1 |
| 209 | 9MR MC04 15 | Adjust spring holder1 | | 2 |
| 210 | 9MR MC04 16 | Adjust spring holder2 | | 1 |
| 211 | 9MR ME03 20 | Adjust spring | | 3 |
| 212 | 9MR MM02 34 | Traverse drive rack | | 1 |
| 213 | 9MR MS07 10 | Drive shaft | | 1 |
| 214 | 9MR MS07 11 | Guide shaft | | 1 |
| 215 | 9MR HD17 028 | Screw | | 2 |
| 216 | 9MV HD12 24 | Screw | | 4 |
| 217 | 9MR DG05 00 | Traverse gear(B) | | 1 |
| 218 | 9MR DG05 01 | Traverse gear(C) | | 1 |
| 219 | 9MR ME03 19 | Traverse gear spring | | 1 |
| 220 | 928 0151 301 | PCB rubber | | 1 |
| △ | 232 | 928 0159 109 | Optical pick-up | 1 |
| | 233 | 9MR JB23 08A | Interface FPC | 1 |
| | 234 | 9MR MC04 18 | Shaft spring | 1 |
| | 235 | 9MV HD10 57 | Screw | 2 |
| | 236 | 928 0152 106 | Cushion rubber | 2 |
| | 237 | 9MR EP30 81A | FG P.C.B. | 1 |

16. PACKING & ACCESSORIES



PARTS LIST OF PACKING & ACCESSORIES

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|--------------------|---------|------|----------|--------------|---------------------------|---------|------|
| ★ 201 | 504 0092 060 | Stylen paper | | 1 | 207 | 515 0867 101 | Service station list (EX) | | 1 |
| 202 | 505 0131 076 | Cabinet cover | | 1 | 208 | 203 5224 008 | 3P pin cord | | 1 |
| 203 | 503 1356 100 | Cushion (Front) | | 1 | 209 | — | Battery (R6P,AA) | | 1 |
| 203A | 503 1357 002 | Cushion (Rear) | | 1 | 213 | 399 0745 003 | Remote controller RC-548 | | 1 |
| 204 | 501 2145 000 | Carton case | | 1 | ★ 214 | 513 1389 006 | Control card base | | 1 |
| 205 | 505 0038 030 | Poly. cover | | 1 | ★ 215 | 517 1430 012 | UPC label | | 1 |
| 206 | 511 3789 006 | Instruction manual | | 1 | ★ 216 | 515 0690 404 | DEL warranty home | | 1 |

18. PARTS LIST OF P.W.B. UNIT ASS'Y MAIN UNIT ASS'Y

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|----------------------|--------------|------------------------|------------|-----------------|---------------------------------|-----------------------------|-------------|
| SEMICONDUCTORS GROUP | | | | RESISTORS GROUP | | | |
| IC2001 | 928 0159 808 | IC MN103S26EGA | 64M SDRAM | Q5263 | 928 0162 400 | Transistor 2SA1532-BC | |
| IC2501 | 928 0159 905 | IC BA5823FP | | Q5264 | 928 0162 507 | Transistor 2SC3930-BC | |
| IC2502 | 928 0160 004 | IC SN74AHC1G66H | | Q5271 | 928 0162 604 | Transistor UN5211 | |
| IC3001 | 928 0160 101 | IC MN677531KA | | Q6215 | 928 0158 508 | Transistor UN5212-TX | |
| IC3061 | 928 0160 208 | IC MT48LC4M16A2TG-8/75 | | QR5221 | 928 0158 401 | Transistor UN2121-TX | |
| IC3091 | 928 0126 909 | IC NJM2115V | | QR5241 | 928 0162 701 | Transistor UN511M-TX | |
| IC3201 | 928 0160 305 | IC ADV7190 | | D3251,3781 | 928 0147 904 | Diode MA111-TX | |
| IC3251 | 928 0160 402 | IC PQ1K333M | | D5261 | 928 0162 808 | Diode MA716 | |
| IC3701 | 928 0160 509 | IC GMVLX1A-X | | D6215 | 928 0162 905 | Diode MA728-TX | |
| IC3731 | 928 0160 606 | IC M54V25632A10 | | D6501,6521 | 928 0110 009 | Diode MA304 | |
| IC3751 | 928 0160 703 | IC ADV7196AKS | | RESISTORS GROUP | | | |
| IC3781 | 928 0160 800 | IC PQ1K333M | | K2002,3002 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 |
| IC3901 | 928 0160 907 | IC XC2S50 | | K3003,3004 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 |
| IC3931 | 928 0161 003 | IC XC17S50XLS | | K3201,3203 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 |
| IC4221,4231 | 928 0142 501 | IC PCM1746 | K3263,3265 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | |
| IC4241 | 928 0142 501 | IC PCM1746 | K3267,6231 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | |
| IC4261 | 928 0163 001 | IC TC7W32FUTL | K6813 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | |
| IC4291 | 928 0163 108 | IC TC7ST04FUTL | R2020 | | Metal film chip 18 kohm 1/16W | ERJ3GEYJ183 | |
| IC5201 | 928 0161 100 | IC AN8703FH | R2021 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 | |
| IC5261 | 928 0161 207 | IC NJU7015 | R2022,2023 | | Metal film chip 7.5 kohm 1/16W | ERJ3GEYJ752 | |
| IC5262 | 928 0161 304 | IC CLC58021MX | R2025,2026 | | Metal film chip 22 kohm 1/16W | ERJ3GEYJ223 | |
| IC5263 | 928 0161 401 | IC SN74LV4053APW | R2027,2028 | | Metal film chip 56 kohm 1/16W | ERJ3GEYJ563 | |
| IC5264 | 928 0161 508 | IC TC7W53FUTL | R2029,2030 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | |
| IC5265 | 928 0160 004 | IC SN74AHC1G66H | R2031,2032 | | Ceramic chip 330pF/50V | ECUV1H331JCV | |
| IC5266 | 928 0161 207 | IC NJU7015 | R2033 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 | |
| IC5267 | 928 0161 605 | IC AHC2G66HDCTR | R2034 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 | |
| IC6201 | 928 0161 702 | IC MN102H60GFB | R2035 | | Metal film chip 2.7 kohm 1/16W | ERJ3GEYJ272 | |
| IC6211 | 928 0128 208 | IC PST596JNR | R2036 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | |
| IC6221 | 928 0161 809 | IC BR24C08F | R2037 | | Metal film chip 68 kohm 1/16W | ERJ3GEYJ683 | |
| IC6301 | 928 0162 002 | IC RFKFRP50G160 | R2038 | | Metal film chip 15 kohm 1/16W | ERJ3GEYJ153 | |
| IC6501,6511 | 928 0128 703 | IC AHC1GU04HDCK | R2039 | | Metal film chip 1 Mohm 1/16W | ERJ3GEYJ105 | |
| IC6521,6531 | 928 0128 703 | IC AHC1GU04HDCK | R2040,2041 | | Metal film chip 8.2 kohm 1/16W | ERJ3GEYJ822 | |
| IC6541 | 928 0161 906 | IC AHC2G74HDCTR | R2042-2046 | | Metal film chip 15 kohm 1/16W | ERJ3GEYJ153 | |
| IC6551 | 928 0162 109 | IC AHC2G157HDCT | R2047,2048 | | Metal film chip 4700 kohm 1/16W | ERJ3GEYJ475 | |
| IC6561,6571 | 928 0128 703 | IC AHC1GU04HDCK | R2049 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | |
| IC6581,6591 | 928 0128 703 | IC AHC1GU04HDCK | R2051,2052 | 928 0155 404 | Metal film chip 100 ohm 1/16W | ERJ3GEYJ101 | |
| IC6801 | 928 0162 206 | IC MN67736WK | R2053,2054 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 | |
| Q2001 | 928 0162 303 | Transistor 2SD1819ATX | R2501-2503 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | |
| Q3221,3226 | 928 0094 604 | Transistor 2SB1218A-R | R2504,2505 | 928 0155 404 | Metal film chip 100 ohm 1/16W | ERJ3GEYJ101 | |
| Q3231,3236 | 928 0094 604 | Transistor 2SB1218A-R | R2506 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | |
| Q3761,3766 | 928 0162 400 | Transistor 2SA1532-BC | R3001 | | Metal film chip 22 ohm 1/16W | ERJ3GEYJ220 | |
| Q3771 | 928 0162 400 | Transistor 2SA1532-BC | R3002 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 | |
| Q5211,5215 | 928 0072 600 | Transistor 2SB1115-T | | | | | |
| Q5261,5262 | 928 0162 507 | Transistor 2SC3930-BC | | | | | |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|------------|--------------|--------------------------------|-------------|------------|--------------|--------------------------------|-------------|
| R3006,3007 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | R3901,3902 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 |
| R3012 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | R3931 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 |
| R3013 | | Metal film chip 680 kohm 1/16W | ERJ3GEYJ684 | | | | |
| R3014-3016 | 928 0155 404 | Metal film chip 100 ohm 1/16W | ERJ3GEYJ101 | R4221 | | Metal film chip 10 ohm 1/16W | ERDAS3G100 |
| R3017 | | Metal film chip 680 kohm 1/16W | ERJ3GEYJ684 | R4231,4241 | | Metal film chip 330 ohm 1/16W | ERJ3GEYJ331 |
| R3018 | 928 0155 404 | Metal film chip 100 ohm 1/16W | ERJ3GEYJ101 | R4261-4263 | | Metal film chip 10 kohm 1/16W | ERJ3GEYJ103 |
| R3031 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | R4271-4274 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 |
| R3061 | 928 0155 404 | Metal film chip 100 ohm 1/16W | ERJ3GEYJ101 | R4291 | | Metal film chip 150 ohm 1/16W | ERJ3GEYJ151 |
| R3091,3092 | | Metal film chip 22 kohm 1/16W | ERJ3GEYG223 | | | | |
| R3093 | | Metal film chip 33 kohm 1/16W | ERJ3GEYJ333 | R5211 | | Metal film chip 2.2 ohm 1/16W | ERJ3GEYJ2R2 |
| R3094 | | Metal film chip 15 kohm 1/16W | ERJ3GEYJ153 | R5212 | 928 9019 460 | Metal film chip 27 ohm 1/2W | ERJ12YJ270 |
| R3095 | | Metal film chip 18 kohm 1/16W | ERJ3GEYJ183 | R5213 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 |
| R3096 | | Metal film chip 27 kohm 1/16W | ERJ3GEYJ273 | R5214 | | Metal film chip 22 kohm 1/16W | ERJ3GEYJ223 |
| R3097 | | Metal film chip 18 kohm 1/16W | ERJ3GEYJ183 | R5215 | | Metal film chip 2.2 ohm 1/16W | ERJ3GEYJ2R2 |
| R3098 | | Metal film chip 27 kohm 1/16W | ERJ3GEYJ273 | R5216 | 928 9019 460 | Metal film chip 27 ohm 1/2W | ERJ12YJ270 |
| R3201,3202 | 928 0155 404 | Metal film chip 100 ohm 1/16W | ERJ3GEYJ101 | R5217 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 |
| R3203 | | Metal film chip 820 ohm 1/16W | ERJ3GEYJ821 | R5221 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 |
| R3204 | | Metal film chip 220 ohm 1/16W | ERJ3GEYJ221 | R5231,5232 | | Metal film chip 8.2 kohm 1/16W | ERJ3GEYJ822 |
| R3205 | | Metal film chip 200 ohm 1/16W | ERJ3RBD201 | R5233 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 |
| R3221 | | Metal film chip 82 ohm 1/16W | ERJ3GEYJ820 | R5241 | | Metal film chip 220 ohm 1/16W | ERJ3GEYJ221 |
| R3222 | | Metal film chip 220 ohm 1/16W | ERJ3GEYJ221 | R5242 | | Metal film chip 82 kohm 1/16W | ERJ3GEYJ823 |
| R3223 | | Metal film chip 33 ohm 1/16W | ERJ3GEYJ330 | R5256 | | Metal film chip 22 kohm 1/16W | ERJ3GEYF223 |
| R3224 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | R5257 | | Metal film chip 1.8 kohm 1/16W | ERJ3GEYJ182 |
| R3226 | | Metal film chip 150 ohm 1/16W | ERJ3GEYJ151 | R5258 | | Metal film chip 2.2 kohm 1/16W | ERJ3GEYJ222 |
| R3227 | | Metal film chip 220 ohm 1/16W | ERJ3GEYJ221 | R5261,5262 | | Metal film chip 560 ohm 1/16W | ERJ3GEYJ561 |
| R3228 | | Metal film chip 33 ohm 1/16W | ERJ3GEYJ330 | R5263 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 |
| R3229 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | R5264 | | Metal film chip 10 kohm 1/16W | ERJ3GEYJ103 |
| R3231 | | Metal film chip 220 ohm 1/16W | ERJ3RBD221 | R5265 | | Metal film chip 100 kohm 1/16W | ERJ3GEYJ104 |
| R3232 | | Metal film chip 33 ohm 1/16W | ERJ3GEYJ330 | R5266 | | Metal film chip 56 kohm 1/16W | ERJ3GEYJ563 |
| R3233 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | R5267 | | Metal film chip 330 kohm 1/16W | ERJ3GEYJ334 |
| R3236 | | Metal film chip 220 ohm 1/16W | ERJ3RBD221 | R5268 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 |
| R3237 | | Metal film chip 33 ohm 1/16W | ERJ3GEYJ330 | R5269 | | Metal film chip 100 kohm 1/16W | ERJ3GEYJ104 |
| R3238 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | R5270 | | Metal film chip 27 kohm 1/16W | ERJ3GEYJ273 |
| R3241 | | Metal film chip 220 ohm 1/16W | ERJ3RBD221 | R5271,5272 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 |
| R3701 | | Metal film chip 10 kohm 1/16W | ERJ3GEYJ103 | R5281,5282 | | Metal film chip 1 Mohm 1/16W | ERJ3GEYJ105 |
| R3702 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 | R5284 | | Metal film chip 56 kohm 1/16W | ERJ3GEYJ563 |
| R3703,3704 | 928 0155 404 | Metal film chip 100 ohm 1/16W | ERJ3GEYJ101 | R5286,5287 | | Metal film chip 68 ohm 1/16W | ERJ3GEYJ680 |
| R3731-3733 | | Metal film chip 10 kohm 1/16W | ERJ3GEYJ103 | R5288 | | Metal film chip 5.6 kohm 1/16W | ERJ3GEYJ562 |
| R3738-3740 | | Metal film chip 10 kohm 1/16W | ERJ3GEYJ103 | R5289 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 |
| R3751,3752 | 928 0155 404 | Metal film chip 100 ohm 1/16W | ERJ3GEYJ101 | R5290 | | Metal film chip 5.6 kohm 1/16W | ERJ3GEYJ562 |
| R3753 | | Metal film chip 1.5 kohm 1/16W | ERJ3RBD152 | R5291 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 |
| R3754,3755 | | Metal film chip 1 kohm 1/16W | ERJ3RBD102 | R5292 | | Metal film chip 5.6 kohm 1/16W | ERJ3GEYJ562 |
| R3761 | | Metal film chip 220 ohm 1/16W | ERJ3RBD221 | R5293 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 |
| R3762 | | Metal film chip 33 ohm 1/16W | ERJ3GEYJ330 | R5294 | | Metal film chip 5.6 kohm 1/16W | ERJ3GEYJ562 |
| R3763 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | R5295 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 |
| R3766 | | Metal film chip 220 ohm 1/16W | ERJ3RBD221 | R5296 | | Metal film chip 3.3 kohm 1/16W | ERJ3GEYJ332 |
| R3767 | | Metal film chip 33 ohm 1/16W | ERJ3GEYJ330 | R5297,5299 | 928 0155 404 | Metal film chip 100 ohm 1/16W | ERJ3GEYJ101 |
| R3768 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | R5300 | | Metal film chip 3.3 kohm 1/16W | ERJ3GEYJ332 |
| R3771 | | Metal film chip 150 ohm 1/16W | ERJ3GEYJ151 | R5301 | | Metal film chip 56 kohm 1/16W | ERJ3GEYJ563 |
| R3772 | | Metal film chip 220 ohm 1/16W | ERJ3GEYJ221 | | | | |
| R3773 | | Metal film chip 33 ohm 1/16W | ERJ3GEYJ330 | R6201 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 |
| R3774 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | R6202,6203 | | Metal film chip 10 kohm 1/16W | ERJ3GEYJ103 |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|-------------|--------------|--------------------------------|--------------|-------------------------|--------------|-------------------------------|--------------|
| R6205,6206 | | Metal film chip 10 kohm 1/16W | ERJ3GEYJ103 | CAPACITORS GROUP | | | |
| R6207,6208 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 | C2001,2002 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 |
| R6209 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 | C2003-2018 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| R6210 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | C2021 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 |
| R6211 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 | C2022-2025 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| R6215 | | Metal film chip 10 kohm 1/16W | ERJ3GEYJ103 | C2026,2031 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| R6216 | | Metal film chip 1 kohm 1/16W | ERJ3GEYJ102 | C2032 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| R6501 | | Metal film chip 1 Mohm 1/16W | ERJ3GEYJ105 | C2034 | | Ceramic chip 0.039uF/16V | ECUV1C393KBV |
| R6502 | | Metal film chip 220 ohm 1/16W | ERJ3RBD221 | C2035 | | Ceramic chip 8200pF/50V | ECUV1H822KBV |
| R6503 | | Metal film chip 100 kohm 1/16W | ERJ3GEYJ104 | C2036,2038 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| R6521 | | Metal film chip 1 Mohm 1/16W | ERJ3GEYJ105 | C2039 | | Ceramic chip 0.01uF/16V | ECUV1C103KBV |
| R6522 | | Metal film chip 220 ohm 1/16W | ERJ3RBD221 | C2040 | | Ceramic chip 0.001uF/50V | ECUX1H102JCV |
| R6523 | | Metal film chip 100 kohm 1/16W | ERJ3GEYJ104 | C2041 | | Metal film chip 10 kohm 1/16W | ERJ3GEYJ103 |
| R6561 | | Metal film chip 1 Mohm 1/16W | ERJ3GEYJ105 | C2042 | | Metal film chip 560 ohm 1/16W | ERJ3GEYJ561 |
| R6562 | | Metal film chip 330 ohm 1/16W | ERJ3RBD331 | C2043 | | Ceramic chip 100pF/50V | ECUV1H101JCV |
| R6801 | | Metal film chip 47 kohm 1/16W | ERJ3GEYJ473 | C2044-2046 | | Ceramic chip 390pF/50V | ECUV1H391JCV |
| RA2021 | 928 9020 019 | Resistor-Resistor 1 kohm | EXBV4V102J | C2047 | | Ceramic chip 0.01uF/16V | ECUV1C103KBV |
| RA2022 | 928 9019 431 | Resistor-Resistor 4.7 kohm | EXBV4V472J | C2048 | | Ceramic chip 0.015uF/16V | ECUV1C153KBV |
| RA2501 | 928 9018 102 | Resistor-Resistor 47 kohm | EXBV8V473J | C2050 | | Ceramic chip 0.033uF/16V | ECUV1C333KBV |
| RA3001 | 928 9020 019 | Resistor-Resistor 1 kohm | EXBV4V102J | C2051 | | Ceramic chip 68pF/50V | ECUV1H680JCV |
| RA3002-3008 | 928 0138 201 | Resistor-Resistor 82 ohm | EXBV8V820J | C2052,2053 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| RA3031-3033 | 928 0143 403 | Resistor-Resistor 0 ohm | EXBV4VR000 | C2054 | | Ceramic chip 680pF/50V | ECUV1H681JCV |
| RA3201,3202 | 928 9020 006 | Resistor-Resistor 10 kohm | EXBV8V103J | C2055 | | Ceramic chip 6800pF/50V | ECUV1H682KBV |
| RA3701 | 928 9019 431 | Resistor-Resistor 4.7 kohm | EXBV4V472J | C2056,2057 | | Ceramic chip 2700pF/50V | ECUV1H272KBV |
| RA3702 | 928 9018 131 | Resistor-Resistor 10 kohm | EXBV4V103J | C2058 | | Ceramic chip 0.001uF/50V | ECUX1H102JCV |
| RA3703-3705 | 928 9020 006 | Resistor-Resistor 10 kohm | EXBV8V103J | C2059 | | Ceramic chip 820pF/50V | ECUV1H821JCV |
| RA3751,3752 | 928 9018 157 | Resistor-Resistor 470 ohm | EXBV8V471J | C2060 | | Ceramic chip 0.001uF/50V | ECUX1H102JCV |
| RA3753 | 928 9018 160 | Resistor-Resistor 470 ohm | EXBV4V471J | C2061,2062 | | Ceramic chip 330pF/50V | ECUV1H331JCV |
| RA3754,3755 | 928 9018 157 | Resistor-Resistor 470 ohm | EXBV8V471J | C2063-2065 | | Ceramic chip 0.001uF/50V | ECUX1H102JCV |
| RA3756 | 928 9018 160 | Resistor-Resistor 470 ohm | EXBV4V471J | C2066-2068 | | Ceramic chip 4700pF/50V | ECUV1H472KBV |
| RA3757,3758 | 928 9018 157 | Resistor-Resistor 470 ohm | EXBV8V471J | C2073 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| RA3759,3760 | 928 9018 160 | Resistor-Resistor 470 ohm | EXBV4V471J | C2501 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 |
| RA3901-3904 | 928 9018 157 | Resistor-Resistor 470 ohm | EXBV8V471J | C2502 | 928 9020 103 | Electrolytic 330uF/6.3V | ECEV0JA331 |
| RA5201 | 928 9019 457 | Resistor-Resistor 100 ohm | EXBV8V101J | C2503 | 928 9020 116 | Electrolytic 100uF/16V | ECEV1CA101W |
| RA6201,6202 | 928 9018 131 | Resistor-Resistor 10 kohm | EXBV4V103J | C2504-2508 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| RA6203 | 928 9019 431 | Resistor-Resistor 4.7 kohm | EXBV4V472J | C2511,2512 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| RA6204 | 928 9018 131 | Resistor-Resistor 10 kohm | EXBV4V103J | C3001,3002 | 928 9020 103 | Electrolytic 330uF/6.3V | ECEV0JA331 |
| RA6205 | 928 9020 006 | Resistor-Resistor 10 kohm | EXBV8V103J | C3003-3007 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| RA6206 | 928 9018 115 | Resistor-Resistor 47 kohm | EXBV4V473J | C3008,3009 | 928 9019 198 | Ceramic chip 1uF/10V | ECUV1A105ZFV |
| VR3201 | 928 0096 806 | Semi fixed resistor 1 kohm | VRV0293B102T | C3010-3035 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| VR3221,3225 | 928 0096 903 | Semi fixed resistor 200 ohm | VRV0293B201T | C3036,3037 | 928 9020 035 | Electrolytic 15uF/6V | VCE0215B156 |
| VR3751 | 928 0096 806 | Semi fixed resistor 1 kohm | VRV0293B102T | C3038,3039 | | Ceramic chip 1uF/10V | ECUZ1A105KBN |
| VR3771 | 928 0096 903 | Semi fixed resistor 200 ohm | VRV0293B201T | C3040-3053 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| | | | | C3054 | | Ceramic chip 22pF/50V | ECUV1H220JCV |
| | | | | C3061-3067 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| | | | | C3091 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| | | | | C3092 | | Ceramic chip 1uF/6.3V | ECUV0J105KBV |
| | | | | C3093 | | Ceramic chip 1uF/10V | ECUZ1A105KBN |
| | | | | C3094 | | Ceramic chip 0.1uF/16V | ECUX1C104ZFV |
| | | | | C3095 | 928 9020 048 | Electrolytic 33uF/6.3V | EEVHB0J330 |
| | | | | C3096 | | Ceramic chip 1uF/10V | ECUZ1A105KBN |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|------------|--------------|-------------------------|--------------|------------|--------------|--------------------------------|--------------|
| C3201 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 | C5201,5202 | 928 9020 093 | Electrolytic 10uF/16V | EEVHB1C100 |
| C3202-3206 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5203-5205 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C3207 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV | C5211,5215 | 928 9020 064 | Electrolytic 47uF/6.3V | EEVHB0J470 |
| C3208,3209 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5221 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C3210 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV | C5222 | 928 9020 051 | Electrolytic 10uF/10V | RCST1AY106RC |
| C3211,3212 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5231 | | Metal film chip 4.7 kohm 1/16W | ERJ3GEYJ472 |
| C3220 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 | C5232-5234 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C3221,3226 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5235,5236 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| C3231,3236 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5251 | | Ceramic chip 100pF/50V | ECUV1H101JCV |
| C3251 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 | C5252 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| C3252 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5261 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C3253 | 928 9020 051 | Electrolytic 10uF/10V | RCST1AY106RC | C5262 | | Ceramic chip 820pF/50V | ECUV1H821JCV |
| C3254 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5263 | | Ceramic chip 220pF/50V | ECUV1H221JCV |
| C3701-3703 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 | C5264 | | Ceramic chip 820pF/50V | ECUV1H821JCV |
| C3711-3724 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5271,5272 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C3731,3732 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 | C5273 | | Ceramic chip 1800pF/50V | ECUV1H182KBV |
| C3733-3744 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5274 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| C3751 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 | C5281 | | Ceramic chip 3900pF/50V | ECUV1H392KBV |
| C3752-3755 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5282 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C3756 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV | C5283,5284 | | Ceramic chip 560pF/50V | ECUV1H561JCV |
| C3757 | 928 9020 129 | Ceramic chip 1uF/10V | ECUZ1A105KBN | C5285 | | Ceramic chip 0.027uF/16V | ECUV1C273KBV |
| C3758,3759 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5287 | | Ceramic chip 0.22uF/10V | ECUV1A224KBV |
| C3761,3766 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5288 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C3770 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 | C5289 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| C3771,3781 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5290-5292 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| C3782 | 928 9020 051 | Electrolytic 10uF/10V | RCST1AY106RC | C5293-5296 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C3783 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C5297,5298 | | Ceramic chip 0.047uF/16V | ECUV1C473KBV |
| C3901,3902 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 | C5299 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C3903-3919 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | | | | |
| C3931 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | | | | |
| C4220 | 928 9020 077 | Electrolytic 22uF/10V | RCST1AX226RC | C6201 | 928 9020 048 | Electrolytic 33uF/6.3V | EEVHB0J330 |
| C4221-4224 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C6202-6206 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C4225-4228 | 928 9020 051 | Electrolytic 10uF/10V | RCST1AY106RC | C6211 | | Ceramic chip 100pF/50V | ECUV1H101JCV |
| C4229 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C6215 | | Ceramic chip 0.1uF/16V | ECUX1C104KBV |
| C4230 | 928 9020 077 | Electrolytic 22uF/10V | RCST1AX226RC | C6221 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C4231-4234 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C6251 | | Ceramic chip 0.01uF/50V | ECUV1H103KBV |
| C4235 | 928 9020 051 | Electrolytic 10uF/10V | RCST1AY106RC | C6252 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 |
| C4237,4238 | 928 9020 051 | Electrolytic 10uF/10V | RCST1AY106RC | C6301,6302 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C4239 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C6501 | 928 9020 035 | Electrolytic 15uF/6V | VCE0215B156 |
| C4240 | 928 9020 077 | Electrolytic 22uF/10V | RCST1AX226RC | C6502,6503 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C4241-4244 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C6504 | | Ceramic chip 0.001uF/50V | ECUX1H102JCV |
| C4245-4248 | 928 9020 051 | Electrolytic 10uF/10V | RCST1AY106RC | C6505 | | Ceramic chip 8pF/50V | ECUV1H080DCV |
| C4249 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C6506 | 928 9020 035 | Electrolytic 15uF/6V | VCE0215B156 |
| C4251-4253 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C6511,6521 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C4258,4259 | 928 9020 080 | Electrolytic 47uF/16V | RCST1CC476RC | C6522 | | Ceramic chip 0.001uF/50V | ECUX1H102JCV |
| C4261 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C6523 | | Ceramic chip 5pF/50V | ECUV1H050DCV |
| C4262,4263 | 928 9020 035 | Electrolytic 15uF/6V | VCE0215B156 | C6531,6541 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C4285 | 928 9020 035 | Electrolytic 15uF/6V | VCE0215B156 | C6551,6561 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C4291 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV | C6562,6563 | | Ceramic chip 15pF/50V | ECUV1H150JCV |
| C4292 | | Ceramic chip 39pF/50V | ECUV1H390JCV | C6571,6581 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| C4336 | | Electrolytic 0.1uF/50V | ECUM1H104ZFN | C6591 | | Ceramic chip 0.1uF/16V | ECUX1C104ZfV |
| | | | | C6801,6802 | 928 9020 022 | Electrolytic 100uF/6.3V | EEVHB0J101 |
| | | | | C6803-6814 | | Ceramic chip 0.22uF/16V | ECUX1C224ZfV |

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|--------------------------|--------------|-----------------------------|--------------|------|-------------|--------------|------------------------|--------------|------|
| OTHER PARTS GROUP | | | | | LB6561,6571 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 2 |
| FL4201 | 928 0143 607 | Filter | VLF1491S105T | 1 | LB6572 | 928 0078 219 | Coil | VLP0155-T | 1 |
| FL6251 | 928 0143 704 | Filter | VLF1491S104T | 1 | LB6581 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 1 |
| FL6252-6256 | 928 0143 607 | Filter | VLF1491S105T | 5 | LB6582 | 928 0078 219 | Coil | VLP0155-T | 1 |
| FP5201 | 928 0159 206 | 38P connector | K1MN38A00005 | 1 | LB6591 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 1 |
| L2001,2002 | 928 0148 505 | Coil 10uH | VLQ0910K100 | 2 | LB6592 | 928 0078 219 | Coil | VLP0155-T | 1 |
| L2021 | 928 0148 505 | Coil 10uH | VLQ0910K100 | 1 | LB6801,6802 | 928 0078 303 | Coil | JALBK2HS470T | 2 |
| L2501 | 928 9018 186 | Metal film chip 0 ohm 1/4W | ERJ14Y0R00 | 1 | P4271 | 928 0159 303 | 15P Connector(MALE) | VJP3904C015 | 1 |
| L3251,3751 | 928 0138 007 | Coil 10uH | ELJEA100KF | 2 | P4291 | 928 0159 400 | 3P Connector (MALE) | K1KA03A00234 | 1 |
| L5201,5202 | 928 0138 007 | Coil 10uH | ELJEA100KF | 2 | PS3201 | 928 0159 507 | 20P Connector (FEMALE) | K1KB20A00101 | 1 |
| L6501 | 928 0148 709 | Coil 22uH | VLQ0909J220T | 1 | PS4201 | 928 0159 604 | 26P Connector (FEMALE) | VJS4222C026B | 1 |
| LA4201 | 928 0146 303 | Coil - Coil | VLP0412A601 | 1 | PS6201 | 928 0149 449 | 10P Connector (FEMALE) | VJS2961C010 | 1 |
| LA6211,6212 | 928 0146 303 | Coil - Coil | VLP0412A601 | 2 | PS6202 | 928 0144 101 | 22P Connector (FEMALE) | VJS4222C022B | 1 |
| LB3001,3002 | 928 0078 303 | Coil | JALBK2HS470T | 2 | PS6251 | 928 0159 701 | 14P Connector (FEMALE) | VJS4222C014B | 1 |
| LB3091 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 1 | X6501 | 9MV SX10 44 | Crystal oscillator | VSX1044 | 1 |
| LB3201-3207 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | 7 | X6521 | 9MV SX10 45 | Crystal oscillator | VSX1045 | 1 |
| LB3208-3210 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 3 | X6561 | 9MV SX09 44 | Crystal oscillator | VSX0944 | 1 |
| LB3213 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 1 | | | | | |
| LB3214 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | 1 | | | | | |
| LB3701 | 928 0078 303 | Coil | JALBK2HS470T | 1 | | | | | |
| LB3901,3902 | 928 0078 303 | Coil | JALBK2HS470T | 2 | | | | | |
| LB4201-4210 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 10 | | | | | |
| LB4270-4273 | 928 0078 219 | Coil | VLP0155-T | 4 | | | | | |
| LB4274-4280 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 7 | | | | | |
| LB4291,4292 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 2 | | | | | |
| LB5201,5202 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 2 | | | | | |
| LB5203-5207 | 928 0078 303 | Coil | JALBK2HS470T | 5 | | | | | |
| LB5208-5210 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 3 | | | | | |
| LB5211 | 928 0078 219 | Coil | VLP0155-T | 1 | | | | | |
| LB5212-5214 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 3 | | | | | |
| LB5215 | 928 0078 303 | Coil | JALBK2HS470T | 1 | | | | | |
| LB5216-5219 | 928 0078 219 | Coil | VLP0155-T | 4 | | | | | |
| LB5220,5221 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 2 | | | | | |
| LB5222,5223 | 928 0078 219 | Coil | VLP0155-T | 2 | | | | | |
| LB5224,5225 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 2 | | | | | |
| LB5226-5229 | 9MV LP01 74 | Coil | VLP0174 | 4 | | | | | |
| LB6201 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 1 | | | | | |
| LB6202 | 928 0078 219 | Coil | VLP0155-T | 1 | | | | | |
| LB6211-6214 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 4 | | | | | |
| LB6216-6221 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 6 | | | | | |
| LB6501,6511 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 2 | | | | | |
| LB6512 | 928 0078 219 | Coil | VLP0155-T | 1 | | | | | |
| LB6521,6531 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 2 | | | | | |
| LB6532 | 928 0078 219 | Coil | VLP0155-T | 1 | | | | | |
| LB6541 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 1 | | | | | |
| LB6542 | 928 0078 219 | Coil | VLP0155-T | 1 | | | | | |
| LB6551 | 928 0129 401 | Chip solid inductor | VLP0323A601R | 1 | | | | | |
| LB6552 | 928 9018 005 | Metal film chip 0 ohm 1/16W | ERJ3GEY0R00 | 1 | | | | | |

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| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|-----------------------------|--------------|-------------------------------|---------|------------------------|--------------|----------------------------|---------------------|
| SEMICONDUCTORS GROUP | | | | RESISTORS GROUP | | | |
| IC101 | 262 2974 004 | IC PMD200 | | TR109,110 | 274 0163 904 | Transistor 2SD601A | |
| IC102 | 262 2975 906 | IC BU2098F | | TR201 | 273 0460 905 | Transistor KTC2875B | |
| IC103 | 262 2376 903 | IC TC74HCT7007AF(TP1) | | TR251 | 269 0082 902 | Transistor DTC114EK | |
| IC105 | 263 0081 002 | IC NJM4558D | | TR252 | 269 0122 901 | Transistor DTC144WK | |
| | | | | TR253 | 273 0460 905 | Transistor KTC2875B | |
| IC201 | 262 2978 000 | IC DXP7001AF | | TR301-304 | 273 0460 905 | Transistor KTC2875B | |
| IC202,203 | 262 2376 903 | IC TC74HCT7007AF(TP1) | | TR309,310 | 273 0460 905 | Transistor KTC2875B | |
| IC205 | 262 2699 907 | IC SN74LV164ANS-EL2 | | TR351 | 269 0082 902 | Transistor DTC114EK | |
| IC206 | 262 2698 908 | IC SN74LV86ANS-EL2 | | | | | |
| IC207 | 262 2696 900 | IC SN74LV32ANS-EL2 | | TR401-412 | 273 0460 905 | Transistor KTC2875B | |
| IC209 | 262 1421 901 | IC TC74HCT04AF(TAPE1) | | TR413 | 274 0163 904 | Transistor 2SD601A | |
| IC210 | 262 1205 907 | IC TC74HCU04AF(TP1) | | TR414 | 269 0083 901 | Transistor DTA114EK | |
| IC211 | 262 1421 901 | IC TC74HCT04AF(TAPE1) | | TR415-417 | 269 0082 902 | Transistor DTC114EK | |
| IC214 | 262 2699 907 | IC SN74LV164ANS-EL2 | | TR418 | 274 0163 904 | Transistor 2SD601A | |
| IC215 | 262 2518 907 | IC SN74LV74APW-EL2 | | TR419 | 269 0083 901 | Transistor DTA115EK | |
| IC216 | 262 2517 908 | IC SN74LV08APW-EL2 | | TR420 | 269 0119 901 | Transistor DTA124EK | |
| IC217 | 262 2518 907 | IC SN74LV74APW-EL2 | | TR421 | 269 0082 902 | Transistor DTC115EK | |
| IC218 | 262 2699 907 | IC SN74LV164ANS-EL2 | | TR423 | 269 0083 901 | Transistor DTA116EK | |
| IC219 | 262 2669 908 | IC SN74LV157APW | | TR427 | 269 0082 902 | Transistor DTC116EK | |
| IC251 | 262 1205 907 | IC TC74HCU04AF(TP1) | | | | | |
| IC252 | 262 2580 906 | IC CXA1511M | | TR501 | 274 0163 904 | Transistor 2SD601A | |
| IC301,302 | 262 2530 914 | IC PCM1704U/2K | | TR606 | 269 0082 902 | Transistor DTC117EK | |
| IC303,304 | 263 0896 909 | IC NJM2068MD-T1 | | TR607 | 269 0122 901 | Transistor DTC144WK | |
| IC321,322 | 263 0896 909 | IC NJM2068MD-T1 | | | | | |
| IC401-405 | 263 0896 909 | IC NJM2068MD-T1 | | D352 | 276 0717 903 | Diode 1SS355 | |
| IC406 | 262 1793 901 | IC TC4W53F | | D401-404 | 276 0717 903 | Diode 1SS355 | |
| IC408-410 | 263 0615 902 | IC BA15218F-DXE2 | | D601 | 276 0717 903 | Diode 1SS355 | |
| IC501 | 262 2829 900 | IC ML6427 | | | | | |
| IC502 | 262 2976 905 | IC ML6426 | | | | | |
| IC503 | 262 2861 900 | IC 74VHC123AMTCX | | | | | |
| IC504 | 263 0682 003 | IC NJM2229S | | | | | |
| IC505 | 262 2519 906 | IC SN74LV00APW-EL2 | | | | | |
| IC506 | 263 1082 903 | IC TK15420MTL | | | | | |
| IC601 | 262 2979 009 | IC MN101C35DAG | | | | | |
| IC602 | 399 0195 909 | Ceramic oscillator EROEC8004T | | | | | |
| IC603 | 263 0913 905 | IC PST600C TP | | | | | |
| IC605 | 263 1079 903 | IC BA033FP | | | | | |
| IC801 | 263 0809 006 | IC NJM7805FA(S) | | | | | |
| IC802 | 263 0554 005 | IC NJM7905FA | | | | | |
| IC803 | 262 2977 904 | IC BA18BC0FP-E2 | | | | | |
| TR102,103 | 269 0054 901 | Transistor DTC144EK | | | | | |
| TR105 | 274 0136 012 | Transistor 2SD1913 (R/S) | | | | | |
| TR106 | 272 0093 010 | Transistor 2SB1274 (R/S) | | | | | |
| TR107 | 274 0036 905 | Transistor 2SD468(C) | | | | | |
| TR108 | 272 0025 907 | Transistor 2SB562(C) | | | | | |
| | | | | R102 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT |
| | | | | R111,112 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| | | | | R113 | 244 2052 960 | Metal oxide 220 ohm 1W(NB) | RS14B3A221JNBST(S) |
| | | | | R116-121 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT |
| | | | | R156 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |
| | | | | R161,162 | 244 2052 960 | Metal oxide 220 ohm 1W(NB) | RS14B3A221JNBST(S) |
| | | | | R163,164 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT |
| | | | | R165 | 247 2011 971 | Carbon chip 62 kohm 1/16W | RM73B--623JT |
| | | | | R166 | 247 2009 970 | Carbon chip 9.1 kohm 1/16W | RM73B--912JT |
| | | | | R167 | 247 2011 968 | Carbon chip 56 kohm 1/16W | RM73B--563JT |
| | | | | R168 | 247 2009 970 | Carbon chip 9.1 kohm 1/16W | RM73B--912JT |
| | | | | R169,170 | 247 2009 941 | Carbon chip 6.8 kohm 1/16W | RM73B--682JT |
| | | | | R172 | 244 2050 933 | Metal oxide 180 ohm 1W(NB) | RS14B3A181JNBST(S) |
| | | | | R173 | 247 2010 914 | Carbon chip 13 kohm 1/16W | RM73B--133JT |
| | | | | R175 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |
| | | | | R176 | 244 2051 945 | Metal oxide 1 ohm 1W(NB) | RS14B3A010JNBST(S) |
| | | | | R178 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |
| | | | | R179 | 247 2009 909 | Carbon chip 4.7 kohm 1/16W | RM73B--472JT (1608) |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|----------|--------------|----------------------------|---------------------|----------|--------------|----------------------------|---------------------|
| R180,181 | 244 2052 960 | Metal oxide 220 ohm 1W(NB) | RS14B3A221JNBST(S) | R285,286 | 247 2006 902 | Carbon chip 330 ohm 1/16W | RM73B--331JT (1608) |
| R182 | 247 2010 969 | Carbon chip 22 kohm 1/16W | RM73B--223JT | R288-290 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R183 | 247 2011 955 | Carbon chip 51 kohm 1/16W | RM73B--513JT | R291 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| R184 | 247 2011 926 | Carbon chip 39 kohm 1/16W | RM73B--393JT | | | | |
| R185 | 247 2014 907 | Carbon chip 560 kohm 1/16W | RM73B--564JT | R301-304 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| R186,187 | 247 2011 955 | Carbon chip 51 kohm 1/16W | RM73B--513JT | R305-308 | 247 2006 931 | Carbon chip 360 ohm 1/16W | RM73B--361JT |
| R189,190 | 247 2009 967 | Carbon chip 8.2 kohm 1/16W | RM73B--822JT | R309,310 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R191,192 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT | R319,320 | 247 2013 966 | Carbon chip 390 kohm 1/16W | RM73B--394JT |
| R193 | 244 2051 945 | Metal oxide 1 ohm 1W(NB) | RS14B3A010JNBST(S) | R321,322 | 247 2008 939 | Carbon chip 2.4 kohm 1/16W | RM73B--242JT |
| R194-196 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R323,324 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| | | | | R327,328 | 247 2008 913 | Carbon chip 2 kohm 1/16W | RM73B--202JT |
| R201 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R335,336 | 247 2008 926 | Carbon chip 2.2 kohm 1/16W | RM73B--222JT |
| R203 | 247 2005 903 | Carbon chip 100 ohm 1/16W | RM73B--101JT | R339,340 | 247 2010 998 | Carbon chip 30 kohm 1/16W | RM73B--303JT |
| R204 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R341,342 | 247 2008 926 | Carbon chip 2.2 kohm 1/16W | RM73B--222JT |
| R205 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT | R353,354 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |
| R206 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R359,360 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R213,214 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R363,364 | 247 2007 998 | Carbon chip 1.6 kohm 1/16W | RM73B--162JT |
| R217 | 247 2004 933 | Carbon chip 51 ohm 1/16W | RM73B--510JT | R365,366 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT |
| R219 | 247 2013 940 | Carbon chip 330 kohm 1/16W | RM73B--334JT | | | | |
| R220 | 247 2006 902 | Carbon chip 330 ohm 1/16W | RM73B--331JT (1608) | R401,402 | 247 2012 925 | Carbon chip 100 kohm 1/16W | RM73B--104JT |
| R222 | 247 2006 902 | Carbon chip 330 ohm 1/16W | RM73B--331JT (1608) | R403,404 | 247 2008 984 | Carbon chip 3.9 kohm 1/16W | RM73B--392JT |
| R224 | 247 2007 914 | Carbon chip 750 ohm 1/16W | RM73B--751JT | R405,406 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |
| R225-227 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R407,408 | 247 2009 967 | Carbon chip 8.2 kohm 1/16W | RM73B--822JT |
| R228 | 247 2004 920 | Carbon chip 47 ohm 1/16W | RM73B--470JT | R409,410 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT |
| R229 | 247 2008 900 | Carbon chip 1.8 kohm 1/16W | RM73B--182JT | R411,412 | 247 2006 931 | Carbon chip 360 ohm 1/16W | RM73B--361JT |
| R230,231 | 247 2006 902 | Carbon chip 330 ohm 1/16W | RM73B--331JT (1608) | R413,414 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| R232 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R415,416 | 247 2006 931 | Carbon chip 360 ohm 1/16W | RM73B--361JT |
| R233 | 247 2004 920 | Carbon chip 47 ohm 1/16W | RM73B--470JT | R417,418 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| R234-236 | 247 2006 902 | Carbon chip 330 ohm 1/16W | RM73B--331JT (1608) | R419,420 | 247 2012 925 | Carbon chip 100 kohm 1/16W | RM73B--104JT |
| R238 | 247 2004 920 | Carbon chip 47 ohm 1/16W | RM73B--470JT | R421,422 | 247 2009 909 | Carbon chip 4.7 kohm 1/16W | RM73B--472JT (1608) |
| R239 | 247 2006 915 | Carbon chip 270 ohm 1/16W | RM73B--271JT | R423 | 247 2010 956 | Carbon chip 20 kohm 1/16W | RM73B--203JT |
| R240 | 247 2004 920 | Carbon chip 47 ohm 1/16W | RM73B--470JT | R424 | 247 2008 984 | Carbon chip 3.9 kohm 1/16W | RM73B--392JT |
| R242,243 | 247 2004 920 | Carbon chip 47 ohm 1/16W | RM73B--470JT | R425 | 247 2012 909 | Carbon chip 82 kohm 1/16W | RM73B--823JT |
| R244 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R426 | 247 2010 956 | Carbon chip 20 kohm 1/16W | RM73B--203JT |
| R245 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT | R427,428 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT |
| R246 | 247 2004 920 | Carbon chip 47 ohm 1/16W | RM73B--470JT | R429,430 | 247 2006 931 | Carbon chip 360 ohm 1/16W | RM73B--361JT |
| R247,248 | 247 2006 902 | Carbon chip 330 ohm 1/16W | RM73B--331JT (1608) | R431,432 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| R251 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT | R433,434 | 247 2006 931 | Carbon chip 360 ohm 1/16W | RM73B--361JT |
| R252 | 247 2006 960 | Carbon chip 470 ohm 1/16W | RM73B--471JT | R435,436 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| R253 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R437,438 | 247 2012 925 | Carbon chip 100 kohm 1/16W | RM73B--104JT |
| R254 | 247 2019 928 | Carbon chip 75 ohm 1/16W | RM73B--750FT | R439,440 | 247 2009 909 | Carbon chip 4.7 kohm 1/16W | RM73B--472JT (1608) |
| R255 | 247 2006 960 | Carbon chip 470 ohm 1/16W | RM73B--471JT | R441,442 | 247 2008 984 | Carbon chip 3.9 kohm 1/16W | RM73B--392JT |
| R256 | 244 2052 928 | Metal oxide 47 ohm 1W(NB) | RS14B3A470JNBST(S) | R443,444 | 247 2010 956 | Carbon chip 20 kohm 1/16W | RM73B--203JT |
| R258 | 247 2012 996 | Carbon chip 200 kohm 1/16W | RM73B--204JT | R445,446 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT |
| R259,260 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R447,448 | 247 2006 931 | Carbon chip 360 ohm 1/16W | RM73B--361JT |
| R261 | 247 2019 902 | Carbon chip 1 kohm 1/16W | RM73B--102FT | R449,450 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| R262 | 247 2011 926 | Carbon chip 39 kohm 1/16W | RM73B--393JT | R451,452 | 247 2006 931 | Carbon chip 360 ohm 1/16W | RM73B--361JT |
| R263 | 247 2019 902 | Carbon chip 1 kohm 1/16W | RM73B--102FT | R453,454 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| R264,265 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R455 | 247 2008 926 | Carbon chip 2.2 kohm 1/16W | RM73B--222JT |
| R267,268 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | R456 | 247 2009 909 | Carbon chip 4.7 kohm 1/16W | RM73B--472JT (1608) |
| R271-279 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R457 | 247 2008 926 | Carbon chip 2.2 kohm 1/16W | RM73B--222JT |
| R283 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R458 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|----------|--------------|-----------------------------|---------------------|-------------------------|--------------|----------------------------|----------------------|
| R459 | 247 2008 926 | Carbon chip 2.2 kohm 1/16W | RM73B--222JT | R579-583 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R461 | 247 2008 926 | Carbon chip 2.2 kohm 1/16W | RM73B--222JT | R601 | 247 2014 965 | Carbon chip 1 Mohm 1/16W | RM73B--105JT |
| R462 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT | R602-604 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |
| R463 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | R605 | 247 2009 967 | Carbon chip 8.2 kohm 1/16W | RM73B--822JT |
| R464 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT | R606 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |
| R465 | 247 2010 969 | Carbon chip 22 kohm 1/16W | RM73B--223JT | R607 | 247 2007 969 | Carbon chip 1.2 kohm 1/16W | RM73B--122JT |
| R466 | 244 2052 902 | Metal oxide 2.7 kohm 1W(NB) | RS14B3A272JNBST(S) | R608 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |
| R468 | 244 2052 960 | Metal oxide 220 ohm 1W(NB) | RS14B3A221JNBST(S) | R609 | 247 2008 942 | Carbon chip 2.7 kohm 1/16W | RM73B--272JT |
| R470 | 247 2010 956 | Carbon chip 20 kohm 1/16W | RM73B--203JT | R610 | 247 2005 987 | Carbon chip 220 ohm 1/16W | RM73B--221JT |
| R471-476 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R612,613 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT |
| R480,481 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT | R614,615 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT |
| R482 | 247 2010 927 | Carbon chip 15 kohm 1/16W | RM73B--153JT | R626-674 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT |
| R483-487 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT | R676 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT |
| R488,489 | 247 2010 972 | Carbon chip 24 kohm 1/16W | RM73B--243JT | R689-692 | 247 2011 942 | Carbon chip 47 kohm 1/16W | RM73B--473JT |
| R490,491 | 247 2009 909 | Carbon chip 4.7 kohm 1/16W | RM73B--472JT (1608) | R699 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT |
| R492 | 247 2012 925 | Carbon chip 100 kohm 1/16W | RM73B--104JT | R702,703 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R493 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT | R711,712 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R501 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | R715,716 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R502 | 247 2009 909 | Carbon chip 4.7 kohm 1/16W | RM73B--472JT (1608) | R719,720 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R503 | 247 2008 900 | Carbon chip 1.8 kohm 1/16W | RM73B--182JT | R723,724 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R504 | 247 2019 902 | Carbon chip 1 kohm 1/16W | RM73B--102FT | R727,728 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R505,506 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | R731,732 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R507,508 | 247 2019 902 | Carbon chip 1 kohm 1/16W | RM73B--102FT | R802,803 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R509 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | R807-809 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT |
| R513 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | CAPACITORS GROUP | | | |
| R514 | 247 2019 928 | Carbon chip 75 ohm 1/16W | RM73B--750FT | C101 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| R515 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | C102,103 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| R516,517 | 247 2019 928 | Carbon chip 75 ohm 1/16W | RM73B--750FT | C104 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| R518 | 247 2019 915 | Carbon chip 1.5 kohm 1/16W | RM73B--152FT | C105,106 | 256 1058 971 | Metalized 0.1uF/50V | CF93A1H104JT (JL) |
| R519,520 | 247 2005 903 | Carbon chip 100 ohm 1/16W | RM73B--101JT | C107 | 255 1265 981 | Mylar film 0.027uF/50V | CQ93M1H273JT(B) |
| R522,523 | 247 2005 903 | Carbon chip 100 ohm 1/16W | RM73B--101JT | C108 | 254 4299 919 | Electrolytic 22uF/16V | CE04W1C220MT(SRE) |
| R524 | 247 2019 915 | Carbon chip 1.5 kohm 1/16W | RM73B--152FT | C109-111 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| R525 | 247 2019 928 | Carbon chip 75 ohm 1/16W | RM73B--750FT | C113 | 257 0506 951 | Ceramic chip 100pF/50V | CC73CH1H101JT |
| R526,527 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | C114 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| R528-533 | 247 2005 903 | Carbon chip 100 ohm 1/16W | RM73B--101JT | C123 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| R534 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT | C126 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R536-538 | 247 2019 928 | Carbon chip 75 ohm 1/16W | RM73B--750FT | C141 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R539-543 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | C142 | 257 0503 925 | Ceramic chip 10pF/50V | CC73CH1H100DT |
| R546-552 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | C143 | 257 0506 951 | Ceramic chip 100pF/50V | CC73CH1H101JT |
| R553,554 | 247 2019 928 | Carbon chip 75 ohm 1/16W | RM73B--750FT | C167 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R555-557 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | C168 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| R558 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | C169,170 | 254 4524 930 | Electrolytic 0.47uF/50V | CE04W1HR47MT SMG/RE3 |
| R559,560 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | C171 | 257 0504 982 | Ceramic chip 47pF/50V | CC73CH1H470JT |
| R561 | 247 2019 915 | Carbon chip 1.5 kohm 1/16W | RM73B--152FT | C201,202 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| R567 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | C205 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| R568 | 247 2014 907 | Carbon chip 560 kohm 1/16W | RM73B--564JT | C206 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| R569 | 247 2009 983 | Carbon chip 10 kohm 1/16W | RM73B--103JT | C207 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| R570-572 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | | | | |
| R573 | 247 2005 903 | Carbon chip 100 ohm 1/16W | RM73B--101JT | | | | |
| R575 | 247 2018 903 | Carbon chip 0 ohm 1/16W | RM73B--0R0KT | | | | |
| R576,577 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | | | | |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|----------|--------------|-------------------------|----------------------|----------|--------------|-------------------------|----------------------|
| C208 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C305 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C209 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C306 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C213-215 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C307 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C216 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C308 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C217 | 254 4299 964 | Electrolytic 47uF/16V | CE04W1C470MT(SRE) | C317,318 | 254 4299 919 | Electrolytic 22uF/16V | CE04W1C220MT(SRE) |
| C218,219 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C319,320 | 254 4302 974 | Electrolytic 100uF/10V | CE04W1A101MT(SRE) |
| C223 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C321-326 | 254 4299 964 | Electrolytic 47uF/16V | CE04W1C470MT(SRE) |
| C224 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C327,328 | 257 0509 903 | Ceramic chip 820pF/50V | CK73B1H821KT |
| C225 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C329,330 | 257 0506 951 | Ceramic chip 100pF/50V | CC73CH1H101JT |
| C226 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C331,332 | 254 3053 910 | Electrolytic 22uF/16V | CE04D1C220MBPT(SME) |
| C227 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C333,334 | 257 0507 918 | Ceramic chip 180pF/50V | CC73CH1H181JT |
| C228 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C335,336 | 257 0508 933 | Ceramic chip 560pF/50V | CC73CH1H561JT |
| C237 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C339,340 | 257 0508 917 | Ceramic chip 470pF/50V | CC73CH1H471JT |
| C251 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C343,344 | 254 4525 751 | Electrolytic 470uF/50V | CE04W1H471MC SMG/RE3 |
| C252 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | C345,346 | 254 4541 955 | Electrolytic 220uF/25V | CE04W1E221MT SMG/RE3 |
| C253 | 254 4525 900 | Electrolytic 33uF/50V | CE04W1H330MT SMG/RE3 | C371,372 | 257 0503 996 | Ceramic chip 20pF/50V | CC73CH1H200JT |
| C255 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | C373,374 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C256 | 254 4524 985 | Electrolytic 10uF/50V | CE04W1H100MT SMG/RE3 | C375,376 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C257 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C377,378 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C258 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C379,380 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C260 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | C401,402 | 254 4538 939 | Electrolytic 47uF/16V | CE04W1C470MT SMG/RE3 |
| C261 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C403,404 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C262 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | C405,406 | 257 0506 951 | Ceramic chip 100pF/50V | CC73CH1H101JT |
| C263 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C407,408 | 254 4538 955 | Electrolytic 220uF/16V | CE04W1C221MT SMG/RE3 |
| C264 | 257 0506 951 | Ceramic chip 100pF/50V | CC73CH1H101JT | C409,410 | 254 4538 939 | Electrolytic 47uF/16V | CE04W1C470MT SMG/RE3 |
| C265 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C413,414 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C266 | 254 4538 939 | Electrolytic 47uF/16V | CE04W1C470MT SMG/RE3 | C415,416 | 254 4299 964 | Electrolytic 47uF/16V | CE04W1C470MT(SRE) |
| C267 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C417,418 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C268 | 254 4524 943 | Electrolytic 1uF/50V | CE04W1H010MT SMG/RE3 | C419,420 | 257 0506 951 | Ceramic chip 100pF/50V | CC73CH1H101JT |
| C269 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C423,424 | 254 4538 939 | Electrolytic 47uF/16V | CE04W1C470MT SMG/RE3 |
| C271 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | C427,428 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C272 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C429,430 | 254 4299 964 | Electrolytic 47uF/16V | CE04W1C470MT(SRE) |
| C273 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C431,432 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C274 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C433,434 | 257 0506 951 | Ceramic chip 100pF/50V | CC73CH1H101JT |
| C275 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C437,438 | 254 4538 939 | Electrolytic 47uF/16V | CE04W1C470MT SMG/RE3 |
| C276 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | C441,442 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C277,278 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C445 | 254 4213 937 | Electrolytic 100uF/6.3V | CE04W0J101MT(SRA) |
| C279 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C446 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| C280 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C447 | 254 4192 948 | Electrolytic 220uF/10V | CE04W1A221MT(SRA) |
| C281 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C448 | 254 4538 900 | Electrolytic 10uF/16V | CE04W1C100MT SMG/RE3 |
| C282 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C451 | 256 1058 942 | Metalized 0.056uF/50V | CF93A1H563JT (JL) |
| C283,284 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C452 | 256 1058 984 | Metalized 0.12uF/50V | CF93A1H124JT (JL) |
| C285 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C453 | 254 4538 900 | Electrolytic 10uF/16V | CE04W1C100MT SMG/RE3 |
| C286 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C457 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C287 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C458 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C288 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C463,464 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| C289 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C467,468 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| C301 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C471,472 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| C302 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | C473 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C303 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C474 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C304 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | | | | |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|----------|--------------|--------------------------|----------------------|--------------------------|--------------|------------------------------|----------------------|
| C501,502 | 254 4533 950 | Electrolytic 470uF/6.3V | CE04W0J471MT SMG/RE3 | C823 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| C503-505 | 254 4538 939 | Electrolytic 47uF/16V | CE04W1C470MT SMG/RE3 | C827,828 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C506 | 254 4533 950 | Electrolytic 470uF/6.3V | CE04W0J471MT SMG/RE3 | C829,830 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C509 | 254 4533 950 | Electrolytic 470uF/6.3V | CE04W0J471MT SMG/RE3 | C831,832 | 254 4525 926 | Electrolytic 100uF/50V | CE04W1H101MT SMG/RE3 |
| C510 | 257 0508 917 | Ceramic chip 470pF/50V | CC73CH1H471JT | C836 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C511,512 | 254 4538 939 | Electrolytic 47uF/16V | CE04W1C470MT SMG/RE3 | C837 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C513 | 254 4533 934 | Electrolytic 220uF/6.3V | CE04W0J221MT SMG/RE3 | C838,839 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| C514-516 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C840 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C517,518 | 254 4533 950 | Electrolytic 470uF/6.3V | CE04W0J471MT SMG/RE3 | C841 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C519 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C844 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT |
| C520,521 | 254 4425 709 | Electrolytic 2200uF/6.3V | CE04W0J222MC(SMG) | C847 | 254 4533 921 | Electrolytic 100uF/6.3V | CE04W0J101MT SMG/RE3 |
| C524 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | C848,849 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| C536 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | C850 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C537 | 254 4538 939 | Electrolytic 47uF/16V | CE04W1C470MT SMG/RE3 | C851 | 254 4533 934 | Electrolytic 220uF/6.3V | CE04W0J221MT SMG/RE3 |
| C538 | 254 4327 904 | Electrolytic 1000uF/6.3V | CE04W0J102MT(SMG) | C872 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) |
| C539,540 | 254 4538 942 | Electrolytic 100uF/16V | CE04W1C101MT SMG/RE3 | OTHER PARTS GROUP | | | Q'ty |
| C550 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | CW35 | 203 5268 006 | 3P connector cord (51021) | 1 |
| C551 | 255 1273 986 | Mylar film 470pF/50V | CQ93M1H471JT(B) | CW121 | 204 6695 008 | 12P PH-SAN connector cord | 1 |
| C552 | 255 1265 978 | Mylar film 0.022uF/50V | CQ93M1H223JT(B) | CW131 | 204 6696 007 | 13P PH-SAN connector cord | 1 |
| C553 | 257 0506 951 | Ceramic chip 100pF/50V | CC73CH1H101JT | CW151 | 204 6697 006 | 15P connector cord (51021) | 1 |
| C554 | 254 4524 972 | Electrolytic 4.7uF/50V | CE04W1H4R7MT SMG/RE3 | CX31 | 205 0687 031 | 3P connector base (YEL) L | 1 |
| C555 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | CX32 | 205 0395 035 | 3P KR connector base (L) RED | 1 |
| C556 | 254 4213 937 | Electrolytic 100uF/6.3V | CE04W0J101MT (SRA) | CX33 | 205 0355 033 | 3P KR connector base (L) | 1 |
| C557 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | CX34 | 205 0685 033 | 3P connector base (BLK) L | 1 |
| C560,561 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | CX71 | 205 0911 008 | 7P FFC connector base (R)1 | |
| C602 | 257 0506 951 | Ceramic chip 100pF/50V | CC73CH1H101JT | CX141 | 205 1205 027 | 14P connector base | 1 |
| C610 | 254 4533 918 | Electrolytic 47uF/6.3V | CE04W0J470MT SMG/RE3 | CX201 | 205 1205 001 | 20P connector base | 1 |
| C611 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | CX221 | 205 1205 030 | 22P connector base | 1 |
| C620,621 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | CX261 | 205 1205 014 | 26P connector base | 1 |
| C622 | 254 4533 921 | Electrolytic 100uF/6.3V | CE04W0J101MT SMG/RE3 | CX331 | 205 0770 058 | 33P FFC base (SIDE) | 1 |
| C624 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | CX351 | 205 0770 074 | 35P FFC base (SIDE) | 1 |
| C625 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | FB101-103 | 235 0130 903 | Chip emifil (11A121) | 3 |
| C626 | 254 4302 974 | Electrolytic 100uF/10V | CE04W1A101MT(SRE) | FB109-112 | 235 0130 903 | Chip emifil (11A121) | 4 |
| C627 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | FB117 | 235 0130 903 | Chip emifil (11A121) | 1 |
| C628 | 254 4524 985 | Electrolytic 10uF/50V | CE04W1H100MT SMG/RE3 | FB149-163 | 235 0130 903 | Chip emifil (11A121) | 15 |
| C629 | 254 4533 934 | Electrolytic 220uF/6.3V | CE04W0J221MT SMG/RE3 | FB217-219 | 235 0130 903 | Chip emifil (11A121) | 3 |
| C801 | 254 4538 955 | Electrolytic 220uF/16V | CE04W1C221MT SMG/RE3 | FB251,252 | 235 0130 903 | Chip emifil (11A121) | 2 |
| C802 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | FB401-410 | 235 0130 903 | Chip emifil (11A121) | 10 |
| C803 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | FB416,417 | 235 0130 903 | Chip emifil (11A121) | 2 |
| C806,807 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | FB514 | 235 0130 903 | Chip emifil (11A121) | 1 |
| C808,809 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | FB601-608 | 235 0130 903 | Chip emifil (11A121) | 8 |
| C810,811 | 254 4193 947 | Electrolytic 100uF/16V | CE04W1C101MT (SRA) | JK201 | 269 0177 008 | Optical connector GP1F38T2 | 1 |
| C812,813 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | JK202 | 204 8597 007 | 1P pin jack | 1 |
| C814,815 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | JK203,204 | 204 8612 005 | Mini jack | 2 |
| C816,817 | 254 4538 955 | Electrolytic 220uF/16V | CE04W1C221MT SMG/RE3 | JK401 | 204 8632 001 | 8P pin jack (AU) | 1 |
| C818 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | JK501 | 204 8631 002 | 2P pin jack (AU) | 1 |
| C819 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | JK503 | 204 8630 003 | 3P pin jack (AU) | 1 |
| C820 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT | JK504 | 204 8633 000 | 2P S-terminal (AU) | 1 |
| C821 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | | | | |
| C822 | 257 0501 901 | Ceramic chip 0.01uF/50V | CK73B1H103KT (1608) | | | | |

GU-3374 DISPLAY UNIT ASS'Y

| Ref. No. | Part No. | Part Name | Remarks | Q'ty | Ref. No. | Part No. | Part Name | Remarks |
|-----------|--------------|--------------------|---------|------|-----------------------------|--------------|----------------------------------|-------------|
| L101 | 235 0060 905 | Inductor 2.2uH | | 1 | SEMICONDUCTORS GROUP | | | |
| L501 | 235 0134 909 | Inductor ELES220KA | | 1 | IC604 | 499 0290 007 | IC GP1U271X | |
| L503 | 235 0134 909 | Inductor ELES220KA | | 1 | IC901 | 265 0111 004 | IC STR-L422 | |
| RL351 | 214 0203 008 | Relay (NA12W-K) | | 1 | IC902 | 262 0874 009 | IC TLP521-1(BL) | |
| ST101,102 | — | Style pin | | 2 | IC903 | 263 1113 005 | IC SE005N | |
| T251 | 231 8063 009 | Pulse trans. | | 1 | IC904 | 263 0753 000 | IC NJM7809FA(S) | |
| | | | | | IC905 | 263 0878 008 | IC NJM7909FA | |
| | | | | | IC906 | 263 1132 002 | IC PQ070VK01FZ | |
| | | | | | IC907 | 263 1048 002 | IC BA033T | |
| | | | | | IC908 | 263 0753 000 | IC NJM7809FA(S) | |
| | | | | | IC909,910 | 268 0075 903 | IC ICP-N25T | |
| | | | | | TR605 | 278 0009 002 | Photo transistor PT491F | |
| | | | | | TR701-704 | 269 0082 902 | Transistor DTC118EK | |
| | | | | | TR901 | 272 0093 010 | Transistor 2SB1274 (R/S) | |
| | | | | | TR902 | 269 0082 902 | Transistor DTC119EK | |
| | | | | | TR903 | 272 0093 010 | Transistor 2SB1274 (R/S) | |
| | | | | | TR905 | 269 0083 901 | Transistor DTA117EK | |
| | | | | | TR906 | 269 0082 902 | Transistor DTC120EK | |
| | | | | | TR907 | 275 0106 906 | Transistor HAT2053M | |
| | | | | | TR908 | 274 0136 012 | Transistor 2SD1913 (R/S) | |
| | | | | | TR909 | 274 0036 905 | Transistor 2SD468(C) | |
| | | | | | TR910 | 269 0083 901 | Transistor DTA118EK | |
| | | | | | TR913 | 269 0082 902 | Transistor DTC121EK | |
| | | | | | D701-704 | 276 0717 903 | Diode 1SS355 | |
| | | | | | D901-904 | 276 0729 904 | Rectifier diode EM01AT | |
| | | | | | D905 | 276 0730 906 | Fast recovery diode AG01ZT | |
| | | | | | D906 | 276 0724 909 | Diode SARS01T | |
| | | | | | D907-909 | 276 0730 906 | Fast recovery diode AG01ZT | |
| | | | | | D910 | 276 0725 704 | Shottkey barrier diode RK39 | |
| | | | | | D911 | 276 0726 703 | Shottkey barrier diode RJ43 | |
| | | | | | D912 | 276 0745 904 | Shottkey barrier diode RB411DT | |
| | | | | | D913 | 276 0725 704 | Shottkey barrier diode RK39 | |
| | | | | | D914 | 276 0727 906 | Fast recovery diode AL01ZT | |
| | | | | | D919 | 276 0737 909 | Shottkey barrier diode RB161L-40 | |
| | | | | | ZD901 | 276 0456 905 | Zener diode HZS4B-1TD | |
| | | | | | LD701 | 393 9453 916 | LED SEL1810A | |
| | | | | | LD702 | 393 9576 903 | LED SELU1E10CXM | |
| | | | | | LD703 | 393 9453 916 | LED SEL1810A | |
| | | | | | LD704 | 393 9504 904 | LED SEL1210S | |
| | | | | | LD901 | 278 0010 004 | LED GL450 | |
| | | | | | TH901 | 279 0044 002 | Thermistor NTH11D8R0LA | NTH11D8R0LA |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|-------------------------|--------------|------------------------------|----------------------|----------|--------------|---------------------------|-----------------------|
| RESISTORS GROUP | | | | △C910 | 253 8022 710 | Ceramic 0.0022uF/250V(AC) | CK45F2EAC222MC |
| R675 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | C911 | 253 8028 701 | Ceramic 0.0022uF/1kV | CK45R3A222KC |
| R676 | 247 2005 945 | Carbon chip 150 ohm 1/16W | RM73B--151JT | C912 | 255 1264 908 | Mylar film 1000pF/50V | CQ93M1H102JT(B) |
| R677 | 247 2005 961 | Carbon chip 180 ohm 1/16W | RM73B--181JT | C914 | 254 4595 707 | Electrolytic 2200uF/6.3V | CE04W0J222MC J30(LXV) |
| R678 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | C915 | 254 4596 706 | Electrolytic 1200uF/16V | CE04W1C122MC J30(LXJ) |
| R679 | 247 2005 945 | Carbon chip 150 ohm 1/16W | RM73B--151JT | C916 | 254 4591 905 | Electrolytic 100uF/50V | CE04W1H101MT (KMF) |
| R680 | 247 2005 961 | Carbon chip 180 ohm 1/16W | RM73B--181JT | C917 | 254 4596 706 | Electrolytic 1200uF/16V | CE04W1C122MC J30(LXJ) |
| R681 | 247 2006 915 | Carbon chip 270 ohm 1/16W | RM73B--271JT | C918 | 254 4591 905 | Electrolytic 100uF/50V | CE04W1H101MT (KMF) |
| R682 | 247 2007 943 | Carbon chip 1 kohm 1/16W | RM73B--102JT | C919 | 256 1058 971 | Metalized 0.1uF/50V | CF93A1H104JT (JL) |
| R683 | 247 2005 945 | Carbon chip 150 ohm 1/16W | RM73B--151JT | C920 | 254 4533 934 | Electrolytic 220uF/6.3V | CE04W0J221MT SMG/RE3 |
| R684 | 247 2005 961 | Carbon chip 180 ohm 1/16W | RM73B--181JT | C922,923 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R685 | 247 2006 915 | Carbon chip 270 ohm 1/16W | RM73B--271JT | C925 | 254 4522 945 | Electrolytic 47uF/35V | CE04W1V470MT SMG/RE3 |
| R686 | 247 2006 944 | Carbon chip 390 ohm 1/16W | RM73B--391JT | C926 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R687 | 247 2007 901 | Carbon chip 680 ohm 1/16W | RM73B--681JT | C927 | 254 4538 942 | Electrolytic 100uF/16V | CE04W1C101MT SMG/RE3 |
| R688 | 247 2007 972 | Carbon chip 1.3 kohm 1/16W | RM73B--132JT | C928 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| | | | | C929 | 254 4538 942 | Electrolytic 100uF/16V | CE04W1C101MT SMG/RE3 |
| R701 | 244 2051 929 | Metal oxide 820 ohm 1W(NB) | RS14B3A821JNBST(S) | C930 | 254 4533 950 | Electrolytic 470uF/6.3V | CE04W0J471MT SMG/RE3 |
| R702 | 244 2052 915 | Metal oxide 1.8 kohm 1W(NB) | RS14B3A182JNBST(S) | C931-933 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R703 | 244 2051 929 | Metal oxide 820 ohm 1W(NB) | RS14B3A821JNBST(S) | C934 | 254 4533 950 | Electrolytic 470uF/6.3V | CE04W0J471MT SMG/RE3 |
| R704 | 244 2052 973 | Metal oxide 560 ohm 1W(NB) | RS14B3A561JNBST(S) | C935,936 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R705 | 247 2006 944 | Carbon chip 390 ohm 1/16W | RM73B--391JT | C938 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R706 | 247 2007 901 | Carbon chip 680 ohm 1/16W | RM73B--681JT | C940-942 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R707 | 247 2006 915 | Carbon chip 270 ohm 1/16W | RM73B--271JT | C944-946 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R708 | 247 2007 972 | Carbon chip 1.3 kohm 1/16W | RM73B--132JT | C947 | 257 0511 904 | Ceramic chip 0.01uF/50V | CK73F1H103ZT |
| | | | | C948 | 257 0512 903 | Ceramic chip 0.1uF/25V | CK73F1E104ZT |
| R901 | 244 2675 716 | Metal oxide 68 kohm 2W(NB) | RS14B3D683JNBF(ERG) | C949 | 257 0511 904 | Ceramic chip 0.01uF/50V | CK73F1H103ZT |
| R902 | 244 2674 717 | Metal oxide 0.33 ohm 2W(NB) | RS14B3DR33JNBF(ERX) | C954 | 257 0509 990 | Ceramic chip 2200pF/50V | CK73B1H222KT |
| R905 | 244 2675 732 | Metal oxide 100 kohm 2W(NB) | RS14B3D104JNBF(ERG) | C959 | 254 4538 955 | Electrolytic 220uF/16V | CE04W1C221MT SMG/RE3 |
| R906 | 244 2675 703 | Metal oxide 47 ohm 2W(NB) | RS14B3D470JNBF(ERG) | C963 | 254 4524 985 | Electrolytic 10uF/50V | CE04W1H100MT SMG/RE3 |
| R913 | 244 2043 953 | Metal oxide 470 ohm 1W(NB) | RS14B3A471JNBST(S) | | | | |
| R916 | 244 2043 953 | Metal oxide 470 ohm 1W(NB) | RS14B3A471JNBST(S) | | | | |
| R920 | 244 2051 929 | Metal oxide 820 ohm 1W(NB) | RS14B3A821JNBST(S) | | | | |
| R929 | 244 2050 991 | Metal oxide 6.8 kohm 1W(NB) | RS14B3A682JNBST(S) | | | | |
| R935 | 241 2378 917 | Carbon film 200 ohm 1/4W(NB) | RD14B2E201JNBST | | | | |
| R938 | 247 2018 916 | Carbon chip 1 ohm 1/16W | RM73B--010KT | | | | |
| CAPACITORS GROUP | | | | | | | |
| C612 | 254 4541 939 | Electrolytic 47uF/25V | CE04W1E470MT SMG/RE3 | | | | |
| C618 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | | | | |
| C619 | 257 0511 904 | Ceramic chip 0.01uF/50V | CK73F1H103ZT | | | | |
| △C691 | 253 8022 707 | Ceramic 0.01 uF/250V(AC) | CK45F2EAC103MC | | | | |
| | | | | | | | |
| C701 | 257 0509 929 | Ceramic chip 1000pF/50V | CK73B1H102KT | | | | |
| C702 | 257 0511 904 | Ceramic chip 0.01uF/50V | CK73F1H103ZT | | | | |
| △C901 | 256 8038 017 | Metalized 0.22uF/250V(AC) | CF99--2EAC224M | | | | |
| △C902 | 256 8038 004 | Metalized 0.1uF/250V(AC) | CF99--2EAC104M | | | | |
| C905 | 254 4588 701 | Electrolytic 100uF/200V | CE04W2D101MC(KMG) | | | | |
| C906 | 253 4546 708 | Ceramic 470pF/2kV | CC45SL3D471JC | | | | |
| C907 | 253 4452 902 | Ceramic 470pF/50V | CC45SL1H471JT | | | | |
| C908 | 253 9030 963 | Ceramic 0.01uF/25V | CK45=1E103KT | | | | |
| C909 | 254 4522 945 | Electrolytic 47uF/35V | CE04W1V470MT SMG/RE3 | | | | |

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|--------------------------|--------------|------------------------------|------------|------|
| OTHER PARTS GROUP | | | | |
| AS906 | 417 0621 001 | Heat sink | OSH-1625SP | 1 |
| CW91 | 204 2812 018 | 9P PH-SAN connector cord | | 1 |
| CX21 | 205 0581 056 | 2P VH connector base | | 1 |
| CX22 | 205 0453 003 | 2P VH connector base (L) | | 1 |
| CX41 | 205 0355 046 | 4P KR connector base (L) | | 1 |
| CX91 | 205 0355 091 | 9P KR connector base (L) | | 1 |
| CX121 | 205 0480 021 | 12P KR connector base (L) | | 1 |
| CX131 | 205 0480 034 | 13P KR connector base (L) | | 1 |
| CX931 | 205 0355 033 | 3P KR connector base (L) | | 1 |
| CY21 | 205 0453 016 | 2P VH connector base (L) | | 1 |
| CY32 | 205 0395 035 | 3P KR connector base (L) RED | | 1 |
| CY33 | 205 0355 033 | 3P KR connector base (L) | | 1 |
| CY34 | 205 0685 033 | 3P connector base (BLK) L | | 1 |
| CY41 | 205 0355 046 | 4P KR connector base (L) | | 1 |
| CY71 | 205 0911 008 | 7P FFC connector base (R) | | 1 |
| CY331 | 205 0770 058 | 33P FFC base (SIDE) | | 1 |
| CY351 | 205 0770 074 | 35P FFC base (SIDE) | | 1 |
| △F901 | 206 1039 047 | FUSE 1.25A | | 1 |
| FF901 | 202 0040 909 | Fuse clip | | 1 |
| FH901 | 202 0040 909 | Fuse clip | | 1 |
| FL601 | 393 8053 003 | FL tube (17-BT-14GNK) | | 1 |
| L901 | 235 0141 002 | Line filter (PLA10A) | | 1 |
| L905,906 | 235 0142 904 | Coil LHL08TB220KT | | 2 |
| L907 | 235 0142 917 | Coil LHL08TB4R7MT | | 1 |
| PI601 | 269 0179 006 | ON1021(Inter rupter) | | 1 |
| S601-613 | 212 0431 900 | Tact switch | | 13 |
| S618 | 212 1059 006 | OP/CL switch | | 1 |
| S619 | 212 1072 009 | Detect switch (SSCF21) | | 1 |
| △S691 | 212 1030 009 | Power switch (TV-5) | | 1 |
| S701-704 | 212 0431 900 | Tact switch | | 4 |
| ST902,903 | — | Style pin | | 2 |
| △T901 | 233 0616 007 | SW transformer | | 1 |
| | 461 0862 045 | FL spacer (T=5) | | 2 |
| | 471 3303 016 | Screw 3x6 CBS-Z | | 1 |