

1746

DENON

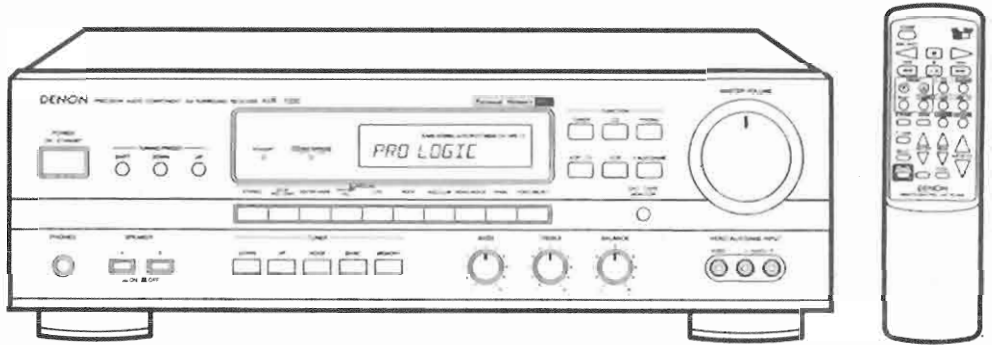
Hi-Fi AV Surround Receiver

SERVICE MANUAL

MODEL AVR-1200

AV SURROUND RECEIVER

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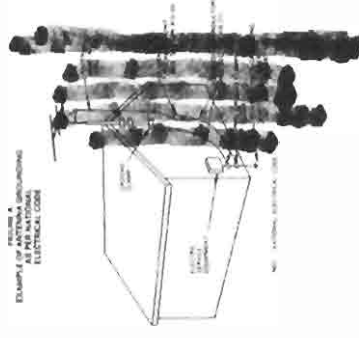
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NIPPON COLUMBIA CO., LTD.




SAFETY INSTRUCTIONS

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A.  An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Grounding or Polarization - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.
12. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
14. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
15. Power Lines - An outdoor antenna should be located away from power lines.
16. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
17. Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
18. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
19. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged, or
 - B. Objects have fallen, or liquid has been spilled into the appliance, or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
20. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

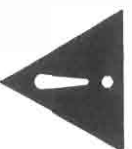


EXAMPLE OF PROPER SERVICING AS PER NATIONAL ELECTRICAL CODE

• SAFETY PRECAUTIONS



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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

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

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

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

• FOR U.S.A. & CANADA MODEL ONLY

CAUTION


TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

• POUR LES MODELE CANADIEN UNIQUEMENT

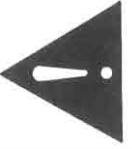
ATTENTION

POUR PREVENIR LES CHOC ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UN AUTRE DISPOSITIF DE COMMANDE SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERTURE.

• 安全事項



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



注意：為減少觸電危險，切勿拆卸機殼（或機背）。機身內並無用戶修理用零件。請交由專業修理人員修理本機。

三角形內有箭頭的閃電符號旨在提醒用戶，本產品機身內有未隔離的“危險電壓”，其幅度足以使人觸電而發生危險。

三角形內有驚嘆號旨在提醒用戶，有重要的操作與維修說明即配合本機。

警告：為減少着火或觸電危險，切勿讓本機受雨淋濕或受潮。

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ACCESSORIES

Check that the following parts are included in addition to the main unit:

- ① Operating instructions
- ② Remote control unit
- ③ RFP (FM) antenna
- ④ AM loop antenna
- ⑤ FM antenna cable

ACCESSOIRES

Vérifiez que les articles suivants sont inclus dans le carton au plus de l'unité principale.

- ① Mode d'emploi
- ② Télécommande
- ③ Pince RFP (AM)
- ④ Bobine d'antenne AM
- ⑤ Antenne intérieure FM

附件








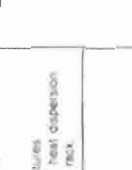

- ① 操作說明書
- ② 遙控器
- ③ AM 迴路天線
- ④ 天線線
- ⑤ FM 天線線

■ We greatly appreciate your purchase of the AVR-1200.
 ■ To be sure you take maximum advantage of all the features the AVR-1200 has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.

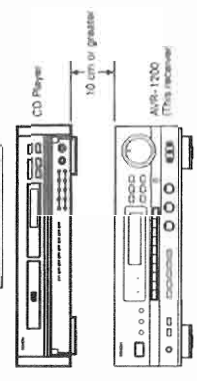
"SERIAL NO. PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

1 INTRODUCTION

NOTE ON USE

A note on stacking



INSTALLATION PRECAUTIONS

- Using this receiver or other electronic equipment containing microprocessors simultaneously with a tuner or TV may result in noise in the sound or picture.
- Install the receiver as far as possible from the tuner or TV set.
- Keep the antenna lines of the tuner or TV as far as possible from the receiver's power cord and connection cables.
- The problem is especially frequent when using indoor antennas. We recommend using outdoor antennas and 75 Ohm coaxial cables.

For stacking purposes, do not place another set component directly on top of the receiver. Be sure to leave a space of at least 10 cm.

2 CONNECTIONS

- Do not plug in the power cord until all connections have been completed.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Insert the plugs securely. Incomplete connections will result in the generation of noise.
- Use the AC OUTLETS for audio equipment only. Do not use them for hair driers, etc.

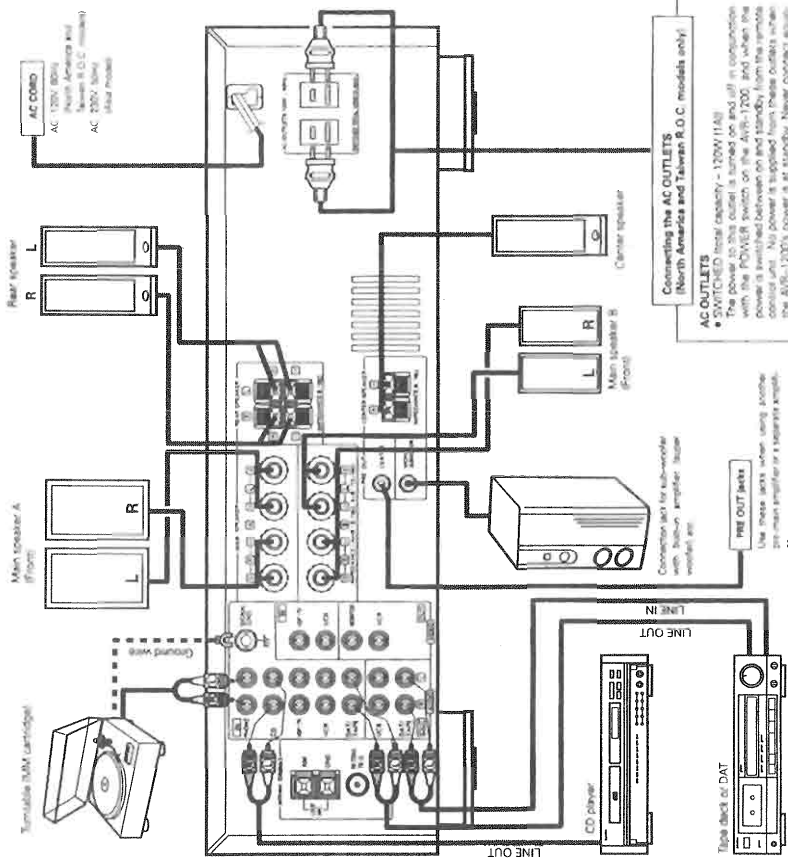
2-1 Connecting the audio components

NOTE:

The receiver cannot be used with a speaker if it is not properly connected. If the speaker is not properly connected, it will be damaged.

Precautions when connecting speakers

If a speaker is placed near a TV or other monitor, the static electricity generated by the speaker may cause the monitor to malfunction. If this occurs, turn the speaker back to its original position.



Connecting the AC OUTLETS (North America and Taiwan R.O.C. models only)

- SWITCHED total capacity ~ 1200W (11A)
- The power line outlet is switched on and off by the remote control unit. No power is supplied from these outlets when the AVR-1200 is at standby. Never connect equipment whose total capacity is above 1200W (11A).

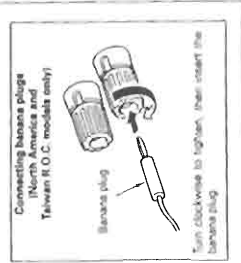
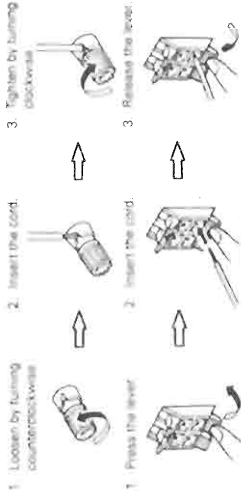
NOTE:

Only use the AC outlets for audio equipment. Never use them for hair driers, TVs or other electrical appliances.

2-2 Speaker System Connections

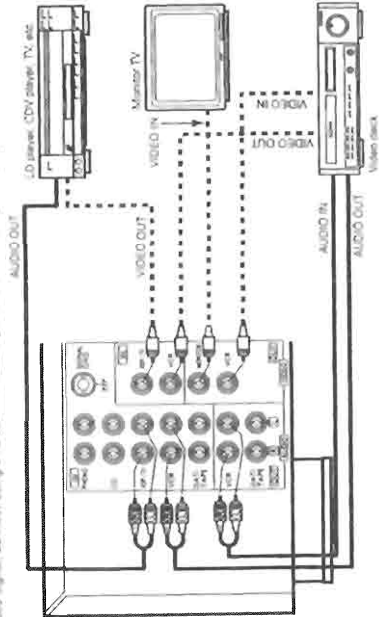
- This receiver can accommodate connections of a total of seven speakers including two sets of front main amplifier speakers (A and B), one set of rear speakers, and one center speaker.
- Connect the speaker terminals with the speakers making sure that the polarities are matched (L with R, R with L). Misconnection of polarities will result in weak central sound, and the connection of the wrong polarity will result in damage to the speaker.
- When making connections, take care that none of the individual conductors of the speaker cord come in contact with adjacent conductors, or with the rear panel.

Connecting the speaker terminals



2-3 Connecting the video components

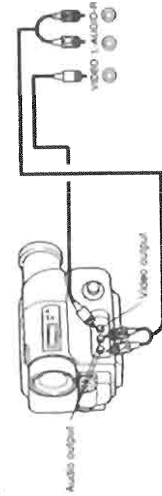
To connect the video signal, connect using a 75 Ω ohms video signal cable cord. Using an improper cable can result in a drop in sound quality.



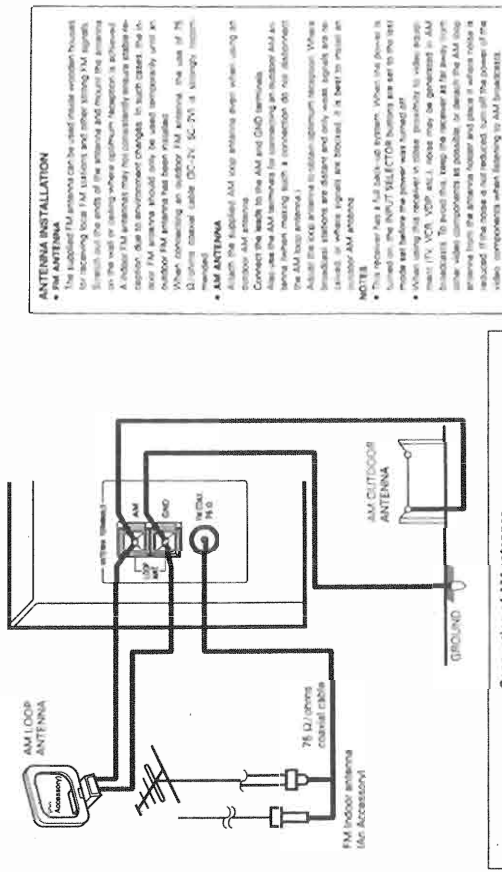
2-4 Connecting camcorder or game (V.AUX / GAME)

This unit is equipped with VIDEO AUX jacks on the front panel for playback of video equipment or playing games.

Camcorder or Game



2-5 Connecting the antenna terminals



ANTENNA INSTALLATION

- **FM ANTENNA**
The subminiature FM antenna can be used inside outdoor housings for receiving local FM stations and other strong FM signals. Search out the ends of the antenna and mount the antenna on the wall or ceiling where optimum reception is achieved. Do not place the antenna near any electrical appliances or other FM antenna should only be used temporarily until an outdoor FM antenna has been installed.
- **AM ANTENNA**
When connecting an outdoor FM antenna the use of 75 Ω coaxial cable (code DC-2V, SC-2V) is strongly recommended.
- **AM ANTENNA**
Attach the subminiature AM loop antenna when using an outdoor AM antenna.
Connect the leads to the AM and GND terminals.
Also use the AM terminals for connecting an outdoor AM antenna. The antenna should be connected to the AM terminal. The AM loop antenna is a variable capacitor. When the broadcast stations are distant and only weak signals are received, or when signals are blocked, it is best to install an outdoor AM antenna.
- This receiver has a full auto-tune system. When the device is turned on, the INPUT SELECTOR buttons are set to the left mode and before the power was turned off.
- When using this receiver in close proximity to video equipment (TV, VCR, VHS, etc.), noise may be generated in AM mode. In this case, the antenna should be connected to the AM terminal. When possible, or when the AM loop antenna from the antenna holder and place it where noise is reduced. If the noise is not reduced, turn off the power of the video components when listening to AM broadcasts.

Note to CATV system installer:
This receiver has a CATV system capability. The antenna is a 75-Ω or 100-Ω CATV antenna. The antenna leads for proper grounding and, in particular, indicates that the cable ground shall be connected to the grounding system of the building. It is best to leave the cable ground empty at practical building.

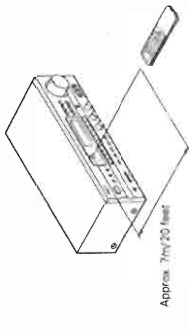
Connection of AM antennas

1. Push the lever.
2. Insert the conductor.
3. Return the lever.

3 REMOTE CONTROL UNIT

Following the procedure outlined below, insert the batteries before using the remote control unit.

Range of operation of the remote control unit



- NOTES:**
- The remote control unit can be used from a straight distance of approximately 7 meters/20 feet, but this distance will shorten or operation will become difficult if there are obstacles between the remote control unit and the remote control sensor. If the remote control sensor is exposed to direct sunlight or other strong light, or if operation is from an angle.
 - Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible.

Inserting the batteries

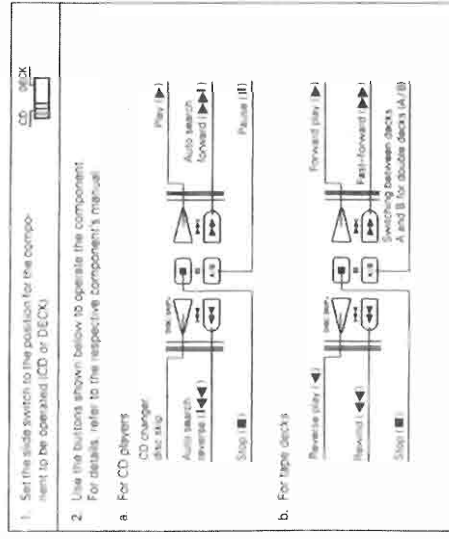
1. Open the bottom cover of the remote control unit and remove the battery cover.
2. Insert the two R6P/AA batteries, matching the + and - marks on the batteries with those in the case.
3. Close the bottom cover until it clicks shut.

NOTES

- Use only AA, R6P/UM-3 batteries for replacement.
- Be sure the batteries are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Have replacement batteries on hand so that the old batteries can be replaced as quickly as possible when the time comes.

System code buttons

DENON remote-controllable audio components can be controlled using this unit's remote control unit. Note that some components, however, cannot be operated with this remote control unit.



4 OPERATIONS

4-1 Preparations for Play Back

- 1 Check that all connections are proper.
- 2 Set to the minimum position.



- 3 Set to the center position.



- 4 Press the power button to turn the power on.



- 5 Select the front speakers. Press the speaker A or B switch to turn the speaker on.



4-2 Playing the program source (Stereo playback)

- Select the source to be played.
 - STEREO
 - VIDEO TV
 - VCR
 - VIDEO GAME

2 Select the STEREO mode.

- STEREO MODE
- STEREO MONITORING
- Adjust the MASTER VOLUME control.
 - MASTER VOLUME

4 Adjust the front left/right BALANCE

- Turn the control clockwise to increase the volume of the right channel, clockwise to reduce the volume of the left channel.
- BALANCE

4-3 Simulcast playback

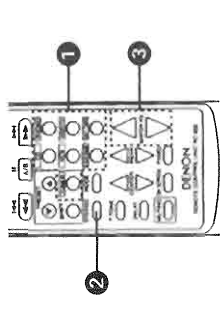
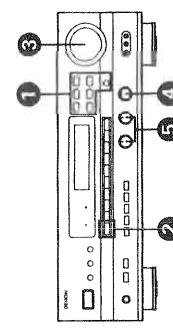
Use this switch to monitor a video source other than the audio source.

- Press and hold the VIDEO SELECT button until the desired source appears on the display.
 - VIDEO SELECT
 - VCR/TV
 - V. AUX/GAME → VCR
- Press the VIDEO SELECT button once more.
- Press the VIDEO SELECT button once more.
- Select the VIDEO function.
 - VIDEO SELECT

4-4 Using the muting function

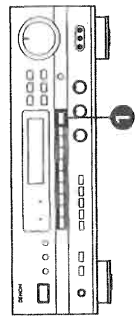
- Use this to turn off the audio output temporarily.
- Press the MUTING button.
 - Press the MUTING button again.

This function can only be set from the remote control unit. The STANDBY LED flashes when the muting function is set.



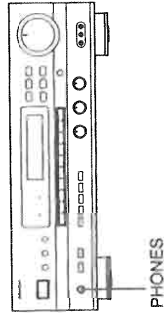
6 Adjust the BASS and TREBLE.

- BASS
 - TREBLE
- Turn the control clockwise to increase the bass, counter-clockwise to decrease it.
- Turn the control clockwise to increase the treble, counter-clockwise to decrease it.



4-5 Listen with headphones

Connect the headphones to the PHONES jacks. When listening with headphones privately set A, B SPEAKER switches and the speaker's power switch to the OFF position and set the stereo surround mode.



4-6 Recording the program source

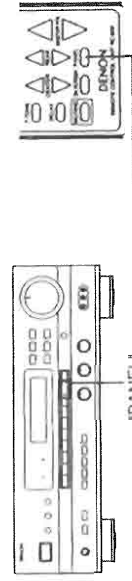
(Recording the source currently being monitored)

- Follow steps 1 to 3 under "Playing the program source".

Simultaneous recording
The signals of the source selected with the function selector button are output simultaneously to the DAT/TAPE and VCR REC OUT jacks. If a total of two tape and/or video decks are connected and set to the recording mode, the same source can be recorded simultaneously on both decks. In addition, if the DAT/TAPE-MONITOR (DAT/TAPE) button is pressed, the audio signals from the tape deck are output to the VCR AUDIO REC OUT jacks.

4-7 Front panel display

Descriptions of the unit's operations are also displayed on the front panel display. In addition, the display can be switched to check the unit's operating status while playing a source by pressing the PANEL button.



4-8 Using the surround function

Types of surround modes and their characteristics

1	Dolby Pro Logic	Use this when playing program sources recorded in Dolby Surround or Dolby Stereo.
2	CONCERT HALL	Use this setting to create the atmosphere of a concert hall. There will be no output from the center speaker.
3	LIVE	Use this setting to create the atmosphere of watching a live performance. There will be no output from the center speaker.
4	ROCK	This mode is best for playing rock, popular music, etc.
5	Jazz Club	This mode creates the sound field of a live house with a low ceiling and hard reverberations. The result is that the artist seems to be performing right before your eyes.
6	Main Movie	In this mode, a sense of expansion is added to monaural audio sources. This mode is best suited for playing old movies or movie clips recorded in monaural.

• Before using the surround function

Make the following adjustments before using the surround function.

- Set the Dolby Pro Logic mode.
 - MODE
- Select the center mode according to the center speaker.
 - PHANTOM CENTER
 - PHANTOM WIDE
 - PHANTOM WIDE

The mode changes as shown above.
- Emitted test tone.
 - T TONE

Adjust the center and rear levels to set the volume of the speakers to the same level.

Test tones are produced from the speakers in the order shown below at 4 second intervals for the first two cycles, 7 second intervals after that.

 - FL → C → FR → S
- Turn the test tone off.
 - T TONE
- Adjust the delay, time and seating position as necessary.
 - DELAY

Operating Possible in the Various Surround Modes

The following is a list of the buttons and functions which can be operated during the different surround modes. Figures in parentheses indicate adjustment range.

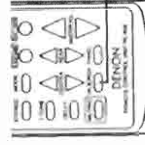
	OUTPUT	CENTER LEVEL	REAR LEVEL	CENTER MODE	TEST PULSE	DELAY TIME
DOLBY PRO LOGIC	NORMAL	○ 0.0 - 24.0dB	○ 0.0 - 24.0dB	○	○	○ 15 - 30ms
	PHANTOM	○	○ 0.0 - 24.0dB	○	○	○ 15 - 30ms
	WIDE	○	○ 0.0 - 24.0dB	○	○	○ 15 - 30ms
CONCERT HALL	○	○	○ 0.0 - 24.0dB	△*	○	○ 0 - 30ms
	○	○	○ 0.0 - 24.0dB	△*	○	○ 0 - 30ms
LIVE	○	○	○ 0.0 - 24.0dB	△*	○	○ 0 - 30ms
ROCK	○	○	○ 0.0 - 24.0dB	△*	○	○ 0 - 30ms
JAZZ CLUB	○	○	○ 0.0 - 24.0dB	△*	○	○ 0 - 30ms
MONO MOVIE	○	○	○ 0.0 - 24.0dB	△*	○	○ 0 - 30ms

*1 Switches to the Dolby Pro Logic from any modes other than Dolby Pro Logic. The level of the center and rear channels can be adjusted by 2 dB step. The delay time can be set by 1.5 ms step.

○ The sound may be distorted for some sources if the rear level is raised during surround playback. If this happens, lower the rear level.

4-9 On-screen display

Each time an operation is performed, a description of that operation appears on the display connected to the unit's VIDEO MONITOR OUT terminal. Also, the unit's operating status can be checked during playback by pressing the remote control unit's ON-SCREEN button. Such information as the position of the input selector and the surround parameter settings is output in sequence. This mode's on-screen function is designed for high-resolution monitor displays. Small characters may be difficult to read on small displays of low-resolution TV.



Center Mode

Set the center mode as described below, according to the type of center speaker being used.

Normal mode This mode is suited for an arrangement in which the center channel speaker is smaller than the left and right speakers. Signals below 100 Hz which have almost no effect on directional orientation are distributed to the left and right channels, whereas the center channel output signals greater than 100 Hz. As a result, the bass of the left and right channels increases the apparent largeness of the sound.

Wide mode This mode is suited for an arrangement in which the center channel speaker is of the same grade as the left and right speakers. The center channel now outputs high-frequency signals to the center channel to provide an exciting sound field for your enjoyment.

Phantom mode Use this mode when center channel speaker is not used. A directional emphasis circuit provides signal reproduction which is electrically oriented to the center and this provides an exciting sound field for your enjoyment.

Delay Time

The optimum delay time will differ depending on the listening position. Referring to the chart at left, set the optimum delay time for your room's space and seating position. For example, when the distance from the front speakers to the listening position is 20 feet and that from the rear speakers to the listening position is 15 feet, the optimum delay time will be 21 ms.

The variable range of the delay time differs depending on the mode.



Personal Memory Plus function ... for EASY TO USE

The AVR-1200 automatically stores the surround mode setting effects for all input sources. The corresponding surround mode is recalled automatically each time an input source is selected.

Using the surround function

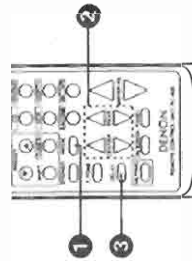
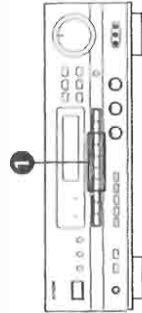
1 Select the surround mode according to the input source.



2 If necessary, adjust the levels.



3 Adjust the parameters to the desired settings.



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5 LISTENING TO THE RADIO

5-1 Auto preset memory

This unit is equipped with a function for automatically searching for FM broadcast stations and storing them in the preset memory.

- 1 Press the POWER button while holding in the MEMORY button. The unit automatically begins searching for FM broadcast stations.



- 2 Channel A1 is tuned in after the auto preset memory operation is completed.

NOTES:

- If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation to tune in the station, then preset it using the manual "Preset memory" operation.
- RDS stations are stored in the memory with priority.
- To interrupt this function, press the POWER button.

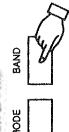
- 3 When the first FM broadcast station is found, that station is stored in the preset memory at channel A1. Subsequent stations are automatically stored in order at preset channels A2 to AB, B1 to B8, C1 to CB, D1 to DE and E1 to EB, for a maximum of 40 stations.

5-2 Auto tuning

- 1 Set the input function to "TUNER".



- 2 Watching the display, press the BAND button to select the desired band (AM or FM).



- 3 Press the MODE button to set the auto tuning mode.



"AUTO" appears on the display.

If tuning does not stop at the desired station, use the "Manual tuning" operation.

5-3 Manual tuning

- 1 Set the input function to "TUNER".
- 2 Watching the display, press the BAND button to select the desired band (AM or FM).
- 3 Press the MODE button to set the manual tuning mode. Check that the display's "AUTO" indicator turns off.

NOTES:

- When in the auto tuning mode on the FM band, the "STEREO" indicator lights on the display when a stereo broadcast is tuned in. At open reception, the noise is muted and the "TUNED" and "STEREO" indicators turn off.
- When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator turns off.

5-4 Preset memory

- 1 Use the "Auto tuning" or "Manual tuning" operation to tune in the station to be preset in the memory.

- 2 Press the MEMORY button.



- 3 Press the SHIFT button and select the desired memory block (A to E).



- 4 Press the PRESET (UP or DOWN) button to select the desired preset channel (1 to 8).



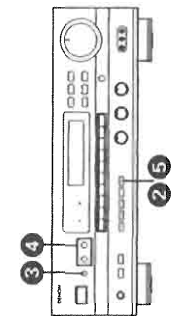
To preset other channels, repeat steps 2 to 4. A total of 40 broadcast stations can be preset — 8 stations (channels 1 to 8) in each of blocks A to E.

5-5 Recalling preset stations

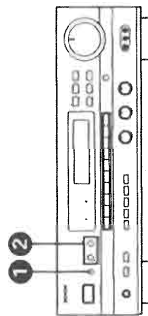
- 1 Watching the display, press the SHIFT button to select the preset memory block.



- 2 Watching the display, press the PRESET (UP or DOWN) button to select the desired preset channel.



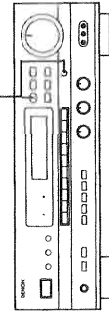
- 5 Press the MEMORY button again to store the station in the preset memory.



6 INITIALIZATION OF THE MICROPROCESSOR

When the indication of the MFD display is not normal or when the operation of the unit does not show the reliable result, the initialization of the microprocessor is required by the following procedure.

- 1 Switch off the unit and remove the AC power cord from the wall outlet.
- 2 Hold the following TUNER button and DAT/TAPE MONITOR button, and plug the power cord into the outlet.
- 3 Check that the entire display is flashing with an interval of about 1 sec.
- 4 Switch on the unit and the microprocessor will be initialized.



9 SPECIFICATIONS

- **Audio Section**
 (Power amplifier)
Rated output:
 FRONT (main 2ch driven) 70 W + 70 W (8 Ω/ohms, 20 Hz - 20 kHz with 0.08% THD)
 100 W + 100 W (8 Ω/ohms, EIAJ)
 CENTER (center 1ch driven) 100 W (8 Ω/ohms, EIAJ)
 only for the power amplifier stage.)
 REAR (rear 2ch driven) 20 W + 20 W (8 Ω/ohms, 1 kHz with 0.3% THD)
 30 W + 30 W (8 Ω/ohms, EIAJ)
Output terminals:
 Front: 6 to 16 Ω/ohms
 Center: 8 to 16 Ω/ohms
 Rear: 8 to 16 Ω/ohms
- **(Pre-amplifier)**
Line input (Each line input - FRONT SP OUT)
 Input sensitivity/impedance: 150 mV/47 kΩ/ohms PHONO (MM): 2.5 mV/47 kΩ/ohms
 10 Hz to 80 kHz ± 3 dB
Frequency response: ± 10 dB at 100 Hz
Tone control range: ± 10 dB at 10 kHz
TREBLE: 92 dB (STEREO)
Signal-to-noise ratio: 92 dB (STEREO)
Phono equalizer (PHONO input - REC OUT)
 RIAA deviation: ± 1 dB (20 Hz to 20 kHz)
Signal-to-noise ratio: 74 dB (A weighting, with 5 mV input)
Rated output / Maximum output: 150 mV/8 V
Distortion factor: 0.03% (1 kHz, 1 V)
- **Tuner Section**
Receiving Range: [FM] (noise: μV at 75 Ω/ohms, 0 dBI) = 1 × 10⁻¹¹ V) 52.0 MHz - 107.9 MHz (for North America model)
 87.50 MHz - 108.00 MHz (for Asia and Taiwan R.O.C. models)
Usable Sensitivity: 1.0 μV (11.2 dBI)
50 dB Quieting Sensitivity: MONO: 1.6 μV (15.3 dBI)
 STEREO: 20 μV (38.5 dBI)
Signal to Noise Ratio (IHF-A): MONO: 90 dB
 STEREO: 75 dB
Total Harmonic Distortion (at 1 kHz): MONO: 0.10%
 STEREO: 0.10%
- **Video Section**
Standby video jacks
 Input and output level/impedance: 1 Vp-p/75 Ω/ohms
Frequency response: 2 Hz to 8 MHz + 0, -3 dB
- **General**
Power supply: AC 120 V, 60 Hz (for North America and Taiwan R.O.C. models)
 AC 230 V, 50 Hz (for Asia model)
 4.5 A (for North America and Taiwan R.O.C. models)
Power consumption: 250 W (for Asia model)
Maximum external dimensions: 434 (W) × 142 (H) × 303 (D) mm (17.07" × 5.59" × 11.93")
Weight: 8.8 kg (19 lbs 7 oz)
- **Remote control unit**
System remote control RC-802:
 Total buttons: 30
 DENON system code
 CD player: 6 buttons } (SWITCHED)
 Cassette deck: 6 buttons
 AVR-1200 fixed codes: 24 buttons
 Batteries: R6P/AA Type (two batteries)
 External dimensions: 51 (W) × 175 (H) × 18.5 (D) mm (2" × 6.87" × 0.73")
 Weight: 100 g (Approx. 3.5 oz) (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice

7 LAST FUNCTION MEMORY

- This receiver is equipped with a last function memory which stores the input and output setting conditions as they vary immediately before the power is switched off.
- This function eliminates the need to perform complicated resettings when the power is switched on.
- This receiver is also equipped with a back-up memory. This function provides approximately one week of memory storage with the power cord disconnected.

8 TROUBLESHOOTING

If a problem should arise, first check the following:
 1. Are the connections correct?
 2. Have you operated the amplifier according to the Operating Instructions?
 3. Are the speakers, turntable, and other components operating properly?
 If the receiver is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

Symptom	Cause	Measures	Page
DISPLAY not lit and sound not produced when power switch set to on.	• Power cord not plugged in securely.	• Check the relation of the power cord plug.	6
DISPLAY lit but sound not produced.	• Speaker cords not securely connected. • Speaker switch is off. • Inproper position of the audio function button. • Volume control set to minimum. • MUTING is on.	• Connect securely. • Turn on speaker switch. • Set to a suitable position. • Turn volume up to suitable level. • Switch off MUTING.	6, 7 9 10 9 10
-PROTECT- display appears	• Speaker terminals are short-circuited. • Block the ventilation holes of the set.	• Switch power off, connect speakers properly, then switch power back on. • Turn off the set's power, then ventilate it well to cool it down. • Once the set is cooled down, turn the power back on. • Turn off the set's power, then ventilate it well to cool it down. • Turn the set's power back on, and let it cooled down, turn the power back on.	6, 7 — —
Sound produced only from one channel.	• Incomplete connection of speaker cords. • Incomplete connection of input/output cables. • Left/right balance is off.	• Connect securely. • Connect securely. • Adjust balance knob properly.	6, 7 8, 7 9
Positions of instruments reversed during stereo playback.	• Reverse connections of left and right speakers or left and right input/output cords.	• Check left and right connections.	6, 7
Sound seems distorted	• Bass level is too high.	• Set the bass level to lower level.	11, 12
Humming noise produced when record is playing	• Ground wire of turntable not connected properly. • Incomplete PHONO jack connection. • TV or radio transmission antenna nearby.	• Connect securely. • Connect securely. • Contact your store of purchase.	6 6
Howling noise produced when volume is high	• Turntable and speaker systems too close together. • Floor is unstable and vibrates easily.	• Separate as much as possible. • Use cushions to absorb speaker vibrations transmitted by floor. If turntable is not level, level it. If necessary, use audio isolation (commonly available).	— —
Sound is distorted	• Stylus pressure too weak. • Dust or dirt on stylus. • Cartridge defective.	• Apply proper stylus pressure. • Check stylus. • Replace cartridge.	— — —
Volume is weak	• MIC cartridge being used.	• Replace with MM cartridge or use a head amplifier or step-up transformer.	6
Receiver does not operate properly when remote control unit is used.	• Batteries dead. • Remote control unit too far from receiver. • Obstacle between receiver and remote control unit. • Different button is being pressed. • On and Off ends of battery inserted in reverse.	• Replace with new batteries. • Move closer. • Remove obstacle. • Press the proper button. • Insert batteries properly.	8, 9 8, 9 8, 9 8, 9 8, 9

Common problems arising when listening to the CD, records, tapes, and FM broadcasts, etc.

WIRE ARRANGEMENT

In case of wires require unclasping or loosening to move the location to perform adjustment or part replacement, be sure to rearrange them neatly to restore properly in the same location as they were originally placed, or causing to produce a noise may occasionally occur.

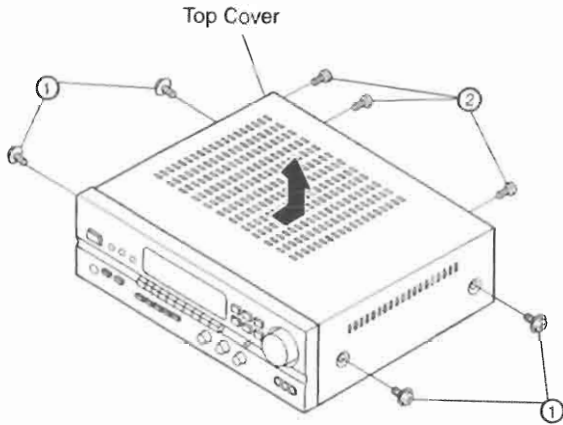


DISASSEMBLY

(To reassemble reverse disassembly)

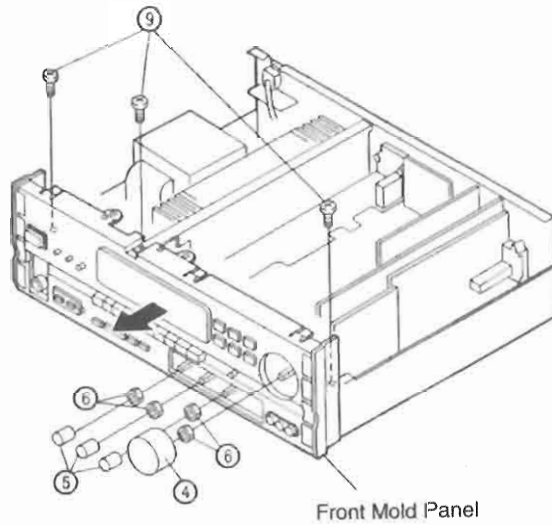
1. Top Cover

Remove 4 screws (1) and 3 screws (2).



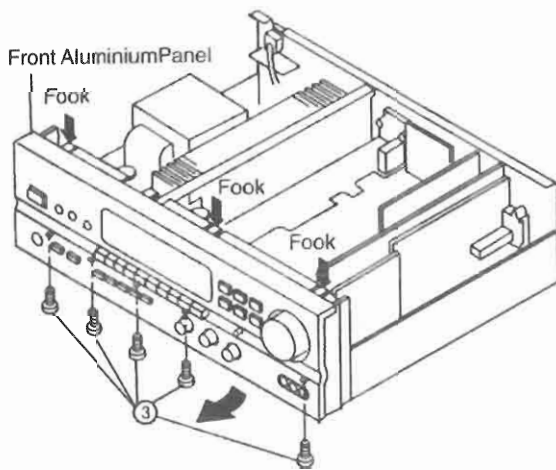
3. Front Mold Panel

- (1) Pull out Volume knob (4) and 3 round knobs (5).
- (2) Remove 4 nuts (6).
- (3) Remove 3 screws (9).



2. Front Aluminium Panel

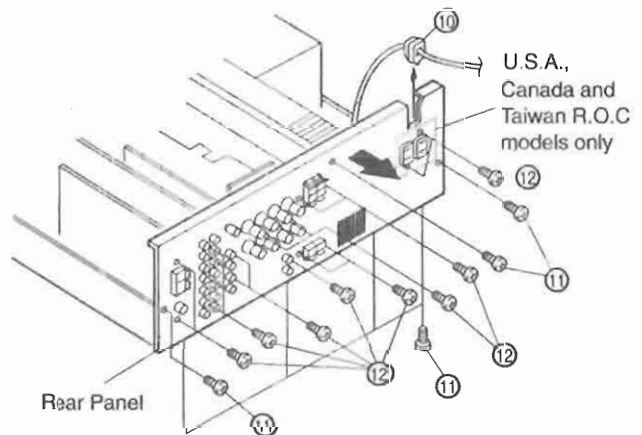
Remove 5 screws (3).



4. Rear Panel

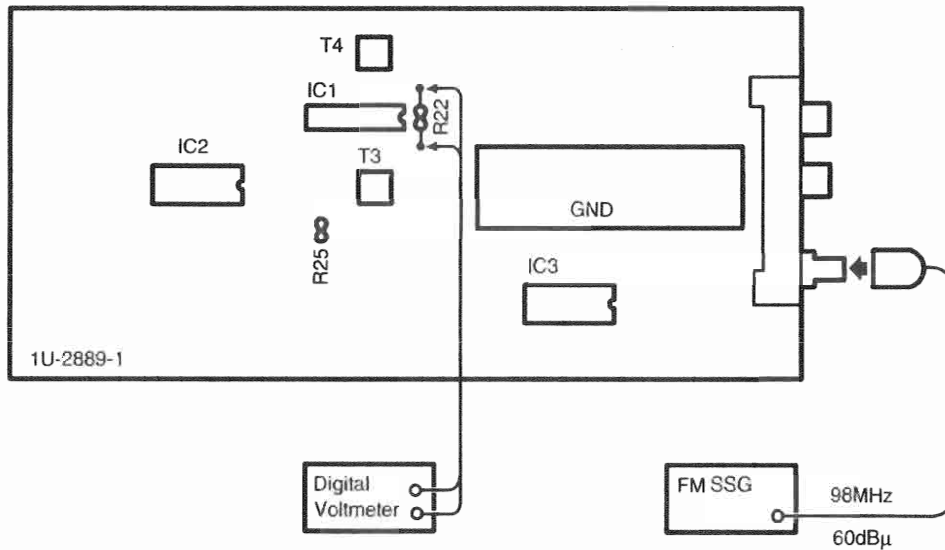
- (1) Disconnect cord bush (10).
- (2) Remove 7 screws (11), and 17 screws (12).

* Screws (12) is tighten.



CONNECTION DIAGRAM OF MEASURING INSTRUMENTS

● FM SECTION



Adjust T4 potential difference across R22 should be within 50mV.

● Initiating (Memory clearing) Method

To clear memory contents of microcomputer and restore to the initial state, take the following steps;

1. Press power switch, turn off power of the unit, and set to standby mode.
2. Pull out power cord from wall outlet temporarily.
3. Insert power cord into outlet while simultaneously pressing two keys of TUNER and DAT/TAPE MONITOR.
4. Press power switch to confirm that memory contents are cleared.

By completion of the above, the initial state is restored. In case the memory can not be cleared due to some reasons, repeat steps 1 through 3.

● AUDIO SECTION

Idling Current (1U-2865-1)

Required measurement equipment: DC Voltmeter

Arrangement

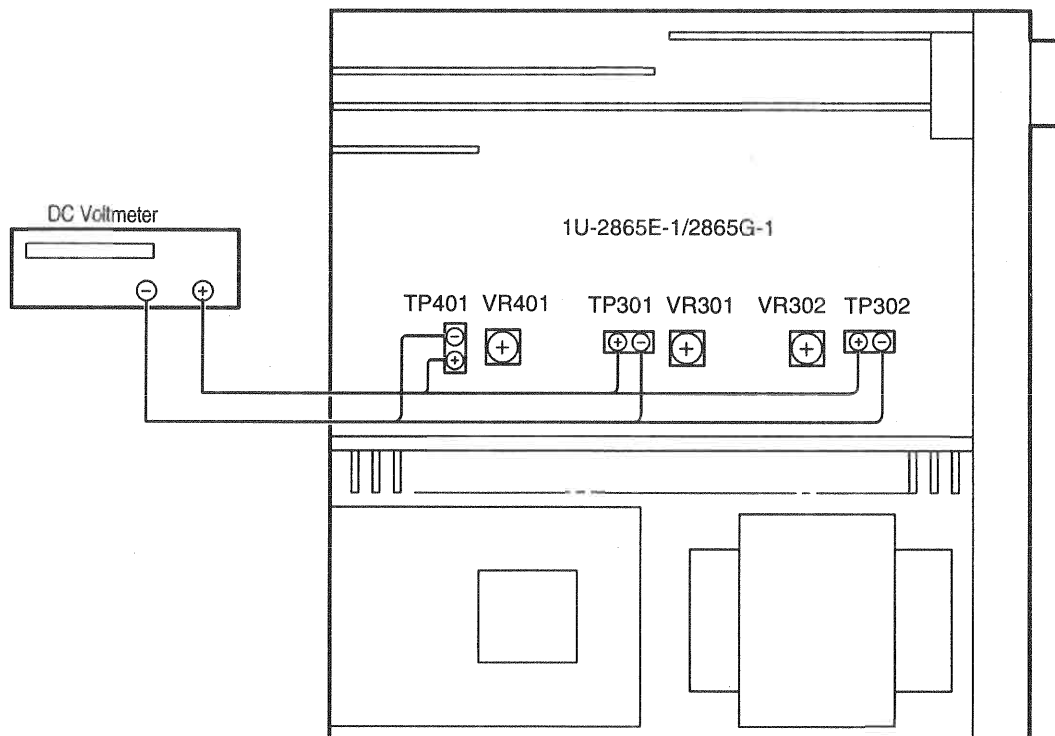
- (1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15°C ~ 30°C. (59°F - 86°F).
- (2) Presetting
 - POWER (Power source switch) → ON
 - MODE (Mode button) → STEREO
 - FUNCTION (Function button) → CD
 - VOLUME (Volume control) → 0: fully counterclockwise (0 min.)
 - BASS, TREBLE (Tone control) → 0: (Controls to center)
 - SPEAKERS (Speaker terminal) → No load (Do not connect speaker, dummy resistor, etc.)

Adjustment

- (1) Remove top cover and set VR401, VR301 and VR302 of 1U-2865E-1 or 1U-2865G-1 (Main Unit) at counterclockwise fully.
- (2) Connect DC Voltmeter to test points (Lch T.P.301, Rch T.P.302, CENTER ch T.P.401).
- (3) Connect power cord to AC Line, and turn power switch "ON".
- (4) Allow 15 minutes, and turn VR301, VR302 and VR401 clockwise (90°) and adjust the TEST POINTS voltage to 1.5 mV ± 0.5 mV DC.
- (5) After 2 minutes from preset, turn VR301, VR302 and VR401 to set the voltage to 3 mV ± 0.5mV DC.

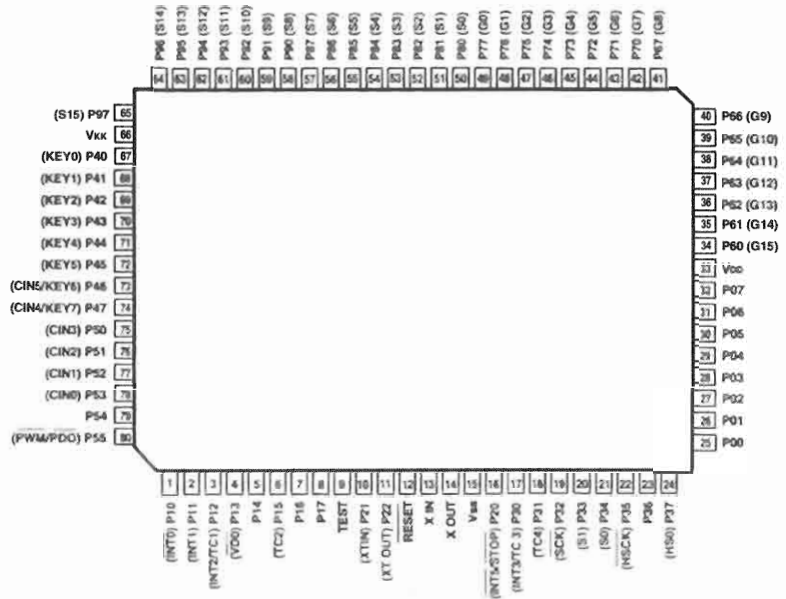
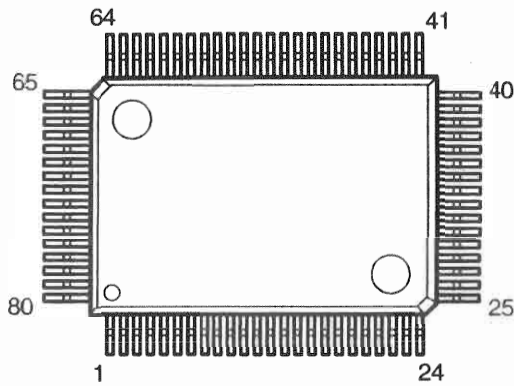
1U-2865-1 Main Unit (Component Side)

	UNIT No.
U.S.A., Canada and Taiwan R.O.C	1U-2865 E
Asia	1U-2865 G



SEMICONDUCTORS

IC's TMP87CM71AF (IC701)



TMP87CM71AF Terminal Function

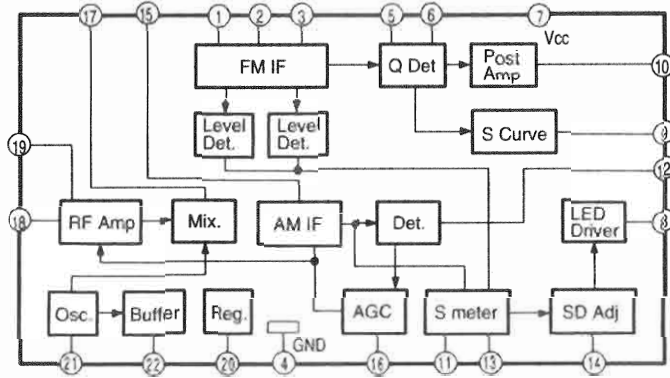
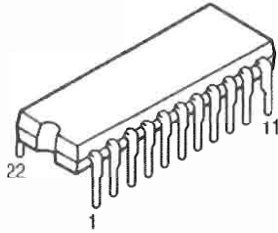
Pin No.	Symbol	I/O	Type	Op	Det	Res	Ini	Function
1	SYNC. DET	I	—	Eu	Lv	Z	—	Detect SYNC signal ("H" at detection)
2	PROTECTION	I	—	Eu	E&L	Z	—	Protection input ("H" at protection)
3	EXP. DATA	O	C	—	—	Z	L	Port expand data output
4	EXP. CK	O	C	—	—	Z	L	Port expand clock output
5	EXP. STB	O	C	—	—	Z	L	Port expand strobe output
6	VR. CK	O	C	—	S	Z	L	TC9176 (electron VR) control clock output
7	VR. DATA	O	C	—	S	Z	L	TC9176 (electron VR) control data output
8	VR. STB	O	C	—	—	Z	L	TC9176 (electron VR) control strobe output
9	TEST	I	—	GND	—	—	—	Connect to ground
10	TUNED	I	—	Eu	Lv	Z	—	"L" at stereo receive
11	OSD. STB	O	N	—	—	Z	H	OSD control output (M35012) ("L" at transmitting OSD data)
12	RESET	I	—	Eu	Lv	Z	—	Reset input
13	X IN	I	—	—	—	—	—	Oscillating circuit (4 MHz)
14	X OUT	O	—	—	—	—	—	Oscillating circuit (4 MHz)
15	GND	I	—	GND	—	—	—	Ground
16	STOP	I	—	Eu	Lv	Z	—	Detect power stop ("L" at power stop)
17	REMOCON	I	—	Eu	E&L	Z	—	Remote control signal input
18	STEREO	I	—	Eu	—	Z	L	"L" at TUNER stereo receive
19	OSD. CLK	O	N	Eu	S	Z	—	OSD clock output (M35012)
20	OSD. RESET	O	N	Eu	—	Z	L	OSD reset signal output (M35012)
21	OSD. DATA	O	N	Eu	S	Z	—	OSD data input (M35012)
22	PLL. CK	O	N	Eu	—	Z	L	LM7001 control clock output
23	PLL. STB	O	N	Eu	—	Z	L	LM7001 control strobe output
24	PLL. DATA	O	N	Eu	—	Z	L	LM7001 control data output
25	FUNC. DATA	O	C	—	—	Z	L	LC7322 (Function IC) control data output
26	FUNC. CK	O	C	—	—	Z	L	LC7822 (Function IC) control clock output
27	FUNC. STB	O	C	—	—	Z	L	LC7822 (Function IC) control strobe output
28	ST/MONO	O	C	—	—	Z	L	TUNER STEREO/MONO control output ("L" at STEREO)
29	POWER OFF	O	C	—	—	Z	L	"L" at ON
30	VOL. DOWN	O	C	—	—	Z	L	Electrically-driven volume control output (BA620BS)

* port is fixed on "L" at RDS non-selection mode.

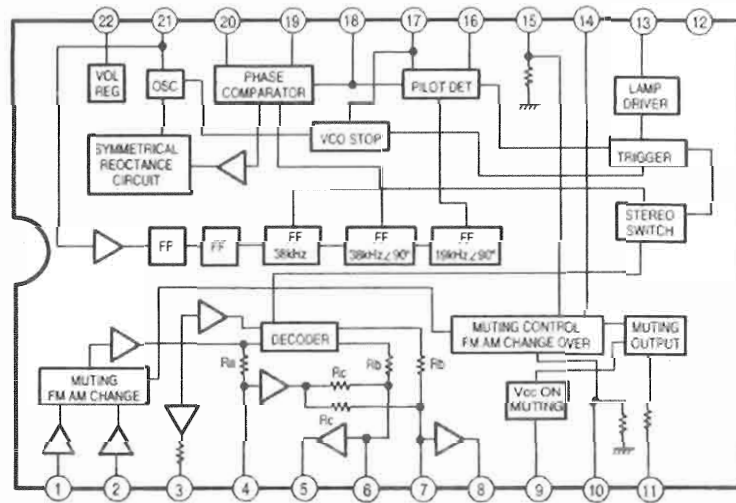
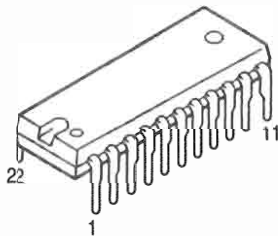
Pin No.	Symbol	I/O	Type	Op	Det	Res	Ini	Function
31	VOL. UP	O	C	—	—	Z	L	Electrically-driven volume control output (BA6208S)
32	SP-FRONT	O	C	Ed	—	Z	H	Front speaker relay control output
33	VDD	I	—	—	—	—	—	Connect to +5V
34	LED. PRO	O	P	Id	—	L	L	DOLBY PROLOIC indicating LED drive output ("H" at light)
35	LED. STBY	O	P	Id	—	L	L	Standby indicating LED drive output ("H" at light)
36	1G	O	P	Id	S	L	L	FLD control output
37	2G	O	P	Id	S	L	L	FLD control output
38	3G	O	P	Id	S	L	L	FLD control output
39	4G	O	P	Id	S	L	L	FLD control output
40	5G	O	P	Id	—	L	L	FLD control output
41	6G	O	P	Id	—	L	L	FLD control output
42	7G	O	P	Id	—	L	L	FLD control output
43	8G	O	P	Id	—	L	L	FLD control output
44	9G	O	P	Id	—	L	L	FLD control output
45	10G	O	P	Id	—	L	L	FLD control output
46	11G	O	P	Id	—	L	L	FLD control output
47	12G	O	P	Id	—	L	L	FLD control output
48	13G	O	P	Id	—	L	L	FLD control output
49	14G	O	P	Id	—	L	L	FLD control output
50	P (a)	O	P	Id	—	L	L	FLD control output
51	P (b)	O	P	Id	—	L	L	FLD control output
52	P (c)	O	P	Id	—	L	L	FLD control output
53	P (d)	O	P	Id	—	L	L	FLD control output
54	P (e)	O	P	Id	—	L	L	FLD control output
55	P (f)	O	P	Id	—	L	L	FLD control output
56	P (g)	O	P	Id	—	L	L	FLD control output
57	P (h)	O	P	Id	—	L	L	FLD control output
58	P (i)	O	P	Id	—	L	L	FLD control output
59	P (k)	O	P	Id	—	L	L	FLD control output
60	P (m)	O	P	Id	—	L	L	FLD control output
61	P (n)	O	P	Id	—	L	L	FLD control output
62	P (p)	O	P	Id	—	L	L	FLD control output
63	P (q)	O	P	Id	—	L	L	FLD control output
64	P (r)	O	P	Id	—	L	L	FLD control output
65	P (s)	O	P	Id	—	L	L	FLD control output
66	VKK	I	—	—	—	—	—	Connect to Vkk
67	DD. CK	O	N	Eu	—	Z	H	NJU9701G (Delay time) control clock output
68	DD. REQ	O	N	Eu	—	Z	H	NJU9701G (Delay time) control request output
69	DD. DATA	O	N	Eu	—	Z	H	NJU9701G (Delay time) control data output
70	MODE2	I	N	Id	—	Z	—	Select occurring or no RDS function ("H" at occurring RDS function)
71	VIDEO A	O	N	Eu	—	Z	H	BU4066 (Video shift) control output ("L" at selecting)
72	VIDEO B	O	N	Eu	—	Z	H	BU4066 (Video shift) control output ("L" at selecting)
73	KEY 5	I	—	Eu	Lv	Z	—	Button input 5
74	KEY 4	I	—	Eu	Lv	Z	—	Button input 4
75	KEY 3	I	—	Eu	Lv	Z	—	Button input 3
76	KEY 2	I	—	Eu	Lv	Z	—	Button input 2
77	KEY 1	I	—	Eu	Lv	Z	—	Button input 1
78	MODE 1	I	—	Eu	Lv	Z	—	Model version change input
79	TU MUTE	O	N	Eu	—	Z	L	Tuner muting output ("L" at muting)
80	VIDEO C	O	N	Eu	—	Z	L	BU4066 (Video shift) control output ("L" at selecting)

* port is in active software pull down mode.

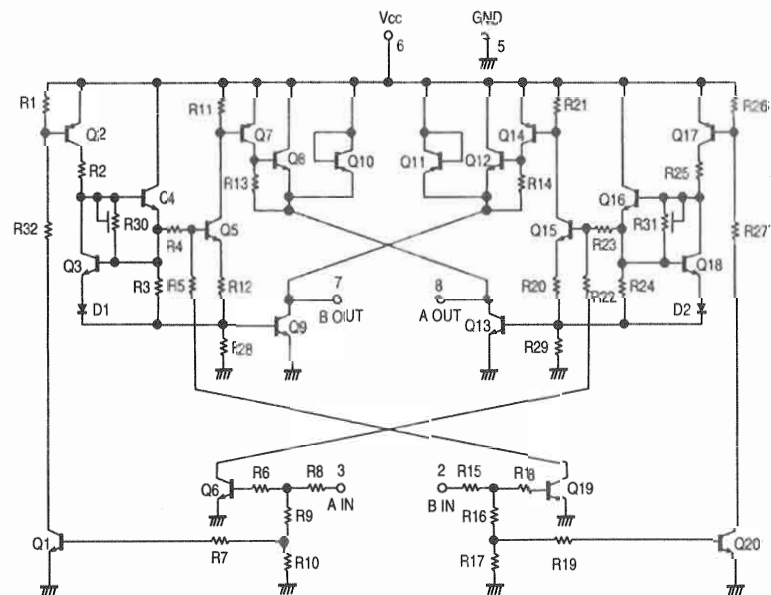
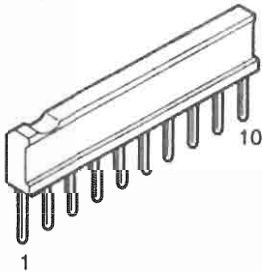
LA1265 (S)
(IC001)



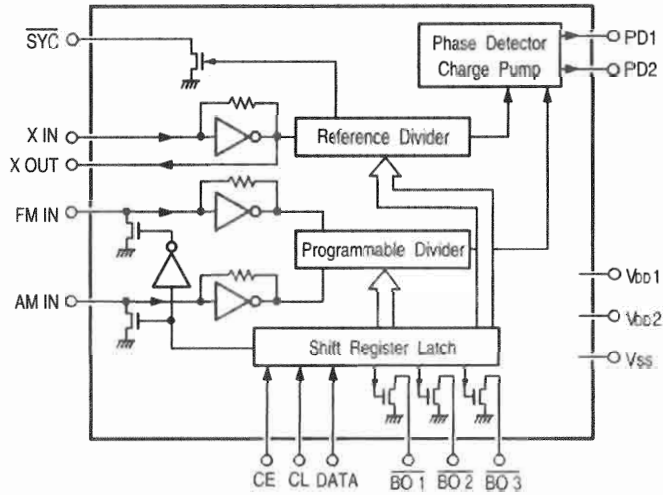
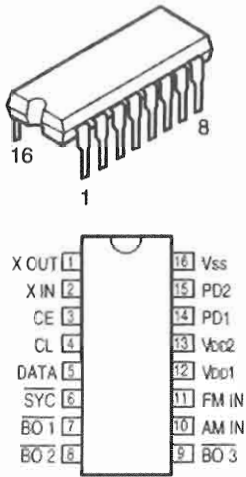
LA3401
(IC002)



BA6208S
(IC264)



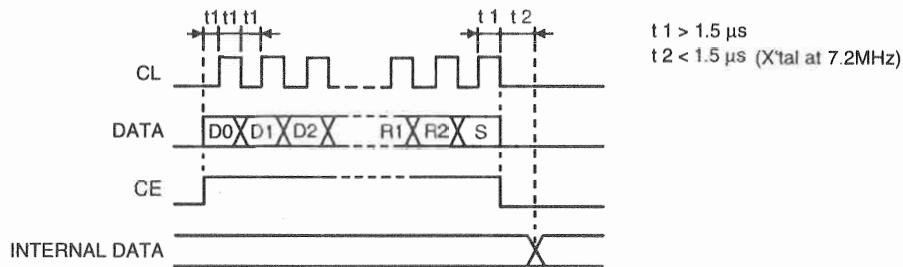
LM7001 (IC003)



Terminal Description

- $\overline{\text{SYC}}$: Clock for controller (400 kHz).
- X IN, X OUT : X'tal OSC (7.2 MHz).
- FMIN, AMIN : Station oscillation signal input.
- CE, CL, DATA : Data input.
- $\overline{\text{BO1}}$, $\overline{\text{BO2}}$, $\overline{\text{BO3}}$: Band data output. $\overline{\text{BO1}}$ is feasible for time base output (8 Hz).
- VDD1, VDD2, VSS : Power supply. (VDD2 is for back-up).
- PD1, PD2 : Charge pump output.

Data input



Input from D0.

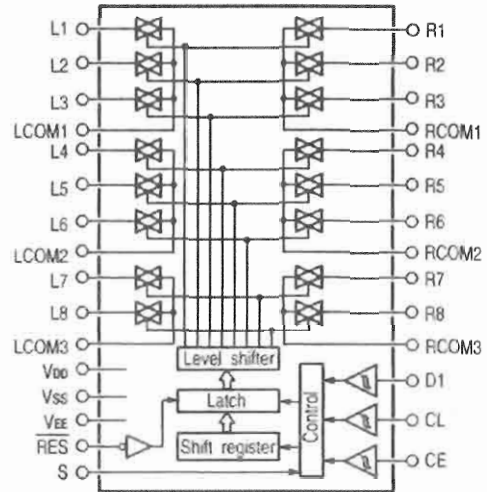
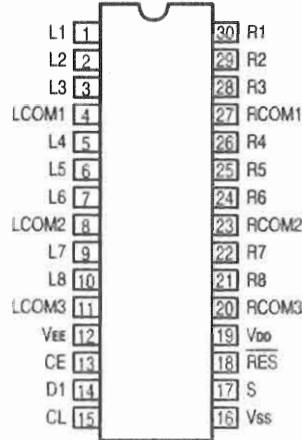
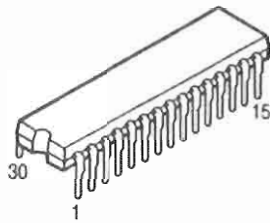
D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	T0	T1	B0	B1	B2	TB	R0	R1	R2	S
----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	----	----	----	----	----	----	----	----	----	---

(1) D0 (LSB)~D13 (MSB): Frequency dividend data
 For FMIN, use D0~D13; for AMIN, use D4~D13.

D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	
1	0	1	0	0	0	0	0	0	1	0	1	1	1	→ FMIN Frequency dividend nnumber = 14853
LSB													MSB	
x	x	x	x	0	0	0	0	1	0	1	1	1		→ FMIN Frequency dividend nnumber = 928
LSB													MBS	

(2) T0, T1: For test of LSI (0, 0)

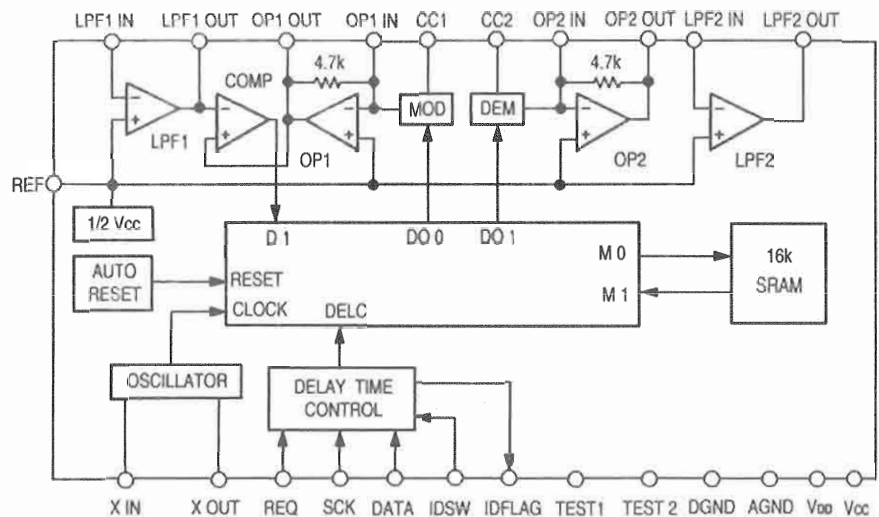
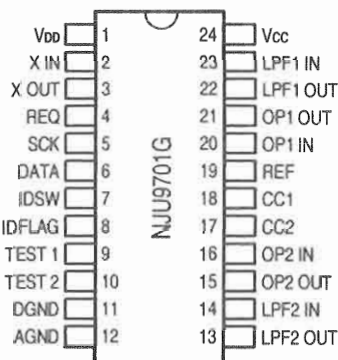
LC7822 (IC102)



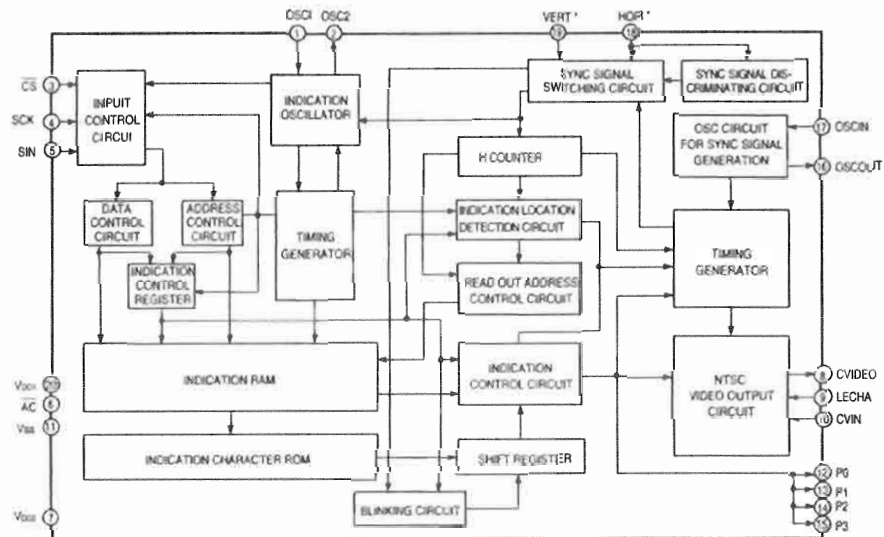
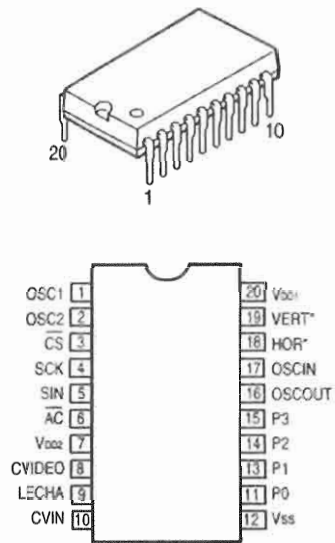
LC7822 Terminal Function

Name of Terminal	I/O	Equivalent Internal Circuit	Function of Terminal																					
VDD, VSS, VEE			Power terminal.																					
L1 - L8, R1 - R8 LCOM1 - LCOM4, BCOM1 - BCOM4		Refer to block diagram	In/Out terminal of analog switch.																					
CL, DI, CE	I		Serial data input terminal (Schmidt buffer). CL = Clock input terminal. DI = Data input terminal. CE = Chip enable terminal.																					
S	I		Selection terminal for using of two. Address will be shifted as per below table when switching S terminal to L or H. <table border="1" style="margin: 10px auto;"> <thead> <tr> <th rowspan="2">Name of Item</th> <th rowspan="2">S Terminal</th> <th colspan="4">Address</th> </tr> <tr> <th>A0</th> <th>A1</th> <th>A2</th> <th>A3</th> </tr> </thead> <tbody> <tr> <td rowspan="2">LC7822</td> <td>L</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>H</td> <td>1</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table>	Name of Item	S Terminal	Address				A0	A1	A2	A3	LC7822	L	0	1	0	1	H	1	1	0	1
Name of Item	S Terminal	Address																						
		A0	A1	A2	A3																			
LC7822	L	0	1	0	1																			
	H	1	1	0	1																			
RES	I		Reset terminal. Condition of analog switch is not fixed at the time of turning on the power. When shift this terminal to L, all analog switches become OFF.																					

NJU9701G (IC202)



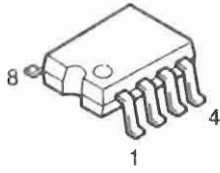
M35012-089SP (IC604)



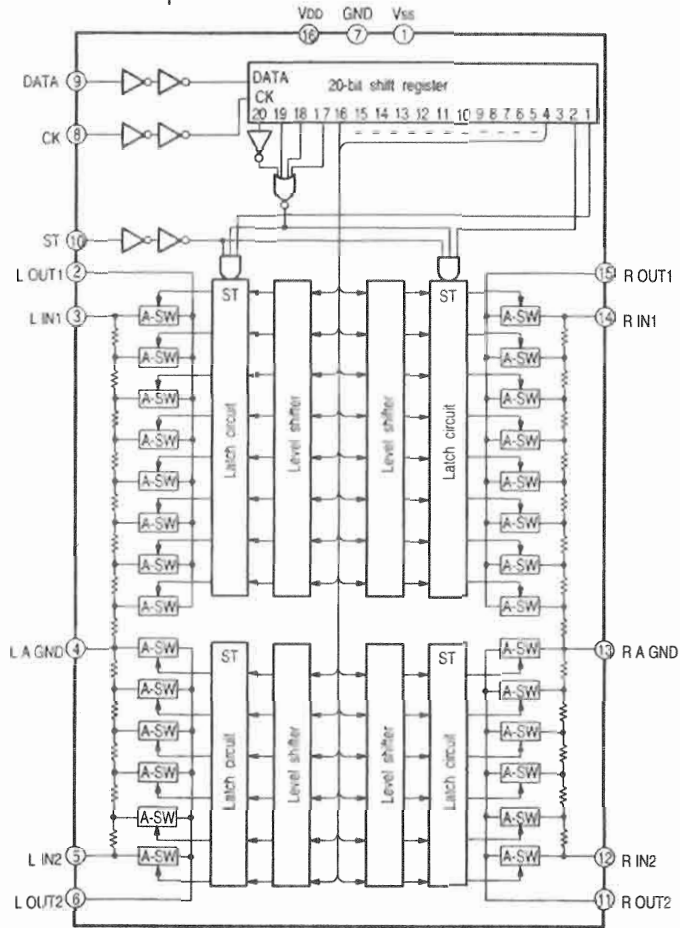
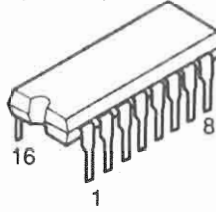
M35012-089SP Terminal Function

Pin No.	Symbol	Name	I/O	Function
1	OSC1	Osc. circuit ext. terminal.	I	External terminal for indication oscillator circuit. Standard OSC. freq. is approx. 7MHz. With this OSC. freq., decides horizontal indication locatin and character width.
2	OSC2		O	
3	CS	Chip select input	I	Chip select terminal and turns to "L" when transfer serial data. Hysteresis input. Pull up resistor is built-in.
4	SCK	Serial clock input	I	Takes in serial data of SIN at SCK rise when CS terminal is in "L". Hysteresis input. Pull up resrist is built-in.
5	SIN	Serial data Input	I	Serial input of register for indication control and data, and address for indication data memoly. hysteresis input. Pull up resistor is built-in.
6	AC	Auto-clear input	I	Resets internal circuit of IC at "L" mode. Hysteresi input, Pull up resistor is built-in.
7	VDD2	Power supply	—	Power supply terminal of analog system. Connect to +5V.
8	CVIDEO	Combined video output	O	Output terminal of combined vidoc signal. Outputs 2Vp-p combined video signal. Character output, etc. Overlap CVIN signal and outputs at superimpose.
9	LECHA	Character level input	I	Input terminal deciding character output level in combined video signal. color of character is white.
10	CVIN	Combined video input	I	Input terminal of external combined video signal. Character output etc. overlap this external combined video signal.
11	VSS	Ground	—	Ground terminal. Connect to GND.
12	P0	Output port P0	O	General output or character background signal BLNK1* output is switchable. Polarity can be selected at ROM mask.
13	P1	Output port P1	O	General output or character background signal CO1* output is switchable. Polarity can be selected at ROM mask.
14	P2	Output port P2	O	General output or character background signal BLNK2* output is switchable. Polarity can be selected at ROM mask.
15	P3	Output port P3	O	General output or character background signal CO2* output is switchable. Polarity can be selected at ROM mask.
16	OSCOU	Ext. terminal for sync sig. OSC. Circuit	O	Terminal for external use of sync signal OSC. circuit. Use the freq.: 14.32MHz at NTSC system, 17.73MHz at PAL. system, 14.30MHz at MPAL system.
17	OSCIN		I	
18	HOR*	Horizontal sync signal	I	inputs horizontal sync signal. Hysteresis input.
19	VERT*	Vertical Sync signal	I	Inputs vertical sync signal. Hysteresis input. Polarity can be selected at ROM mask.
20	VDD1	Power supply	—	Power supply terminal of digital system. Connect to +5V.

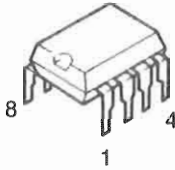
BA4558F (IC101, 103)



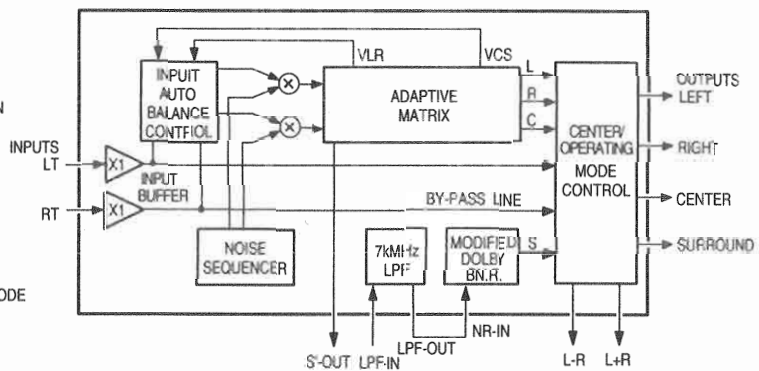
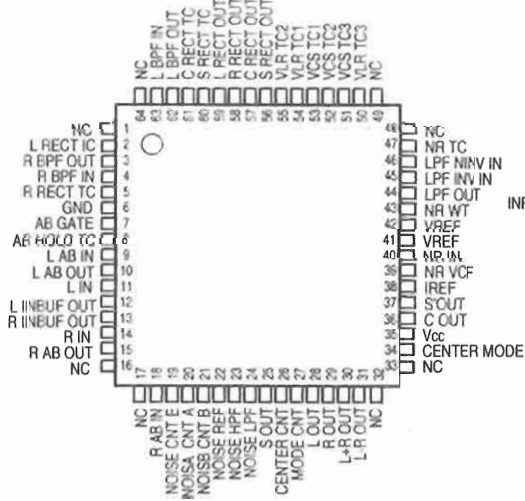
TC9176P (IC262)



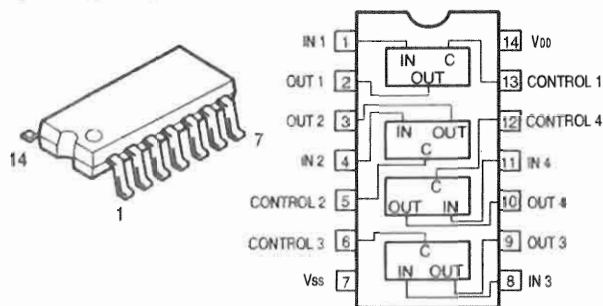
**BA4558 (IC261, 263)
BA15218 (IC451, 512)**



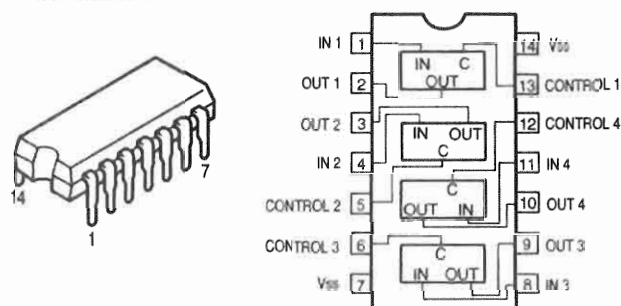
DDSC-A (IC201)



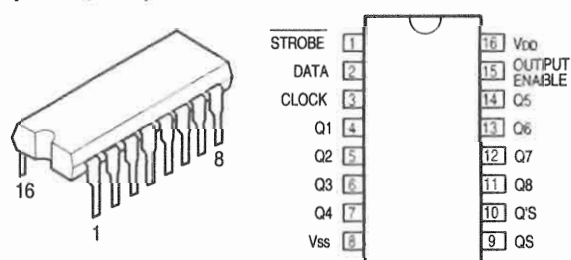
BU4066BCF
(IC203, 205)



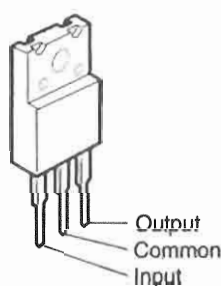
LC4966 (IC110, 511)
BU4066BC (IC601, 602)



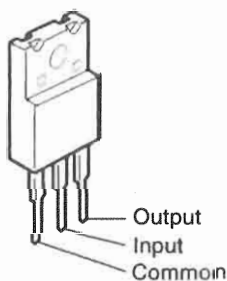
μPD4094BC
(IC913, 914)



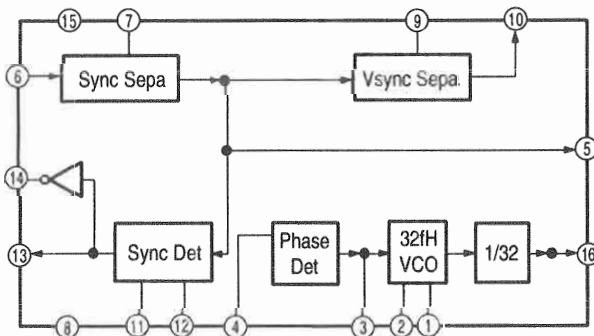
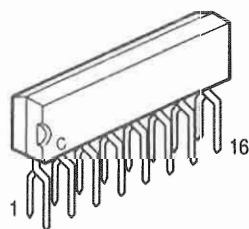
NJM7806FA (S) (IC551, 603)
NJM7812FA (S) (IC503)



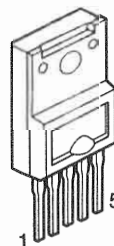
NJM7912FA (IC504)



NJM2229S (IC605)



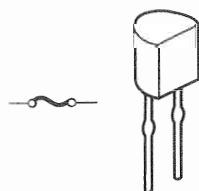
SI-18752
(IC501, 502)



- 1. +IN
- 2. IN
- 3. VEE
- 4. Output
- 5. +Vcc

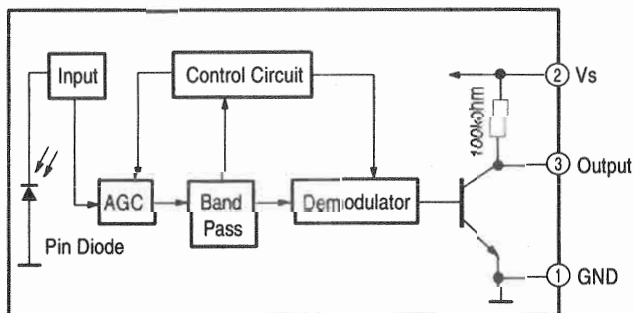
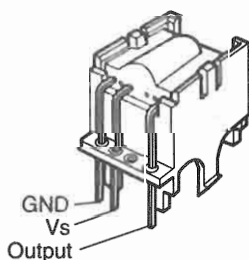
● **IC PROTECTORS**

ICP-N15 (IC606)
ICP-N20 (IC505, 506)



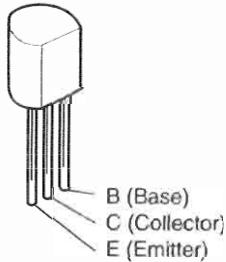
● **OTHERS**

TFMT5380
(IC702)

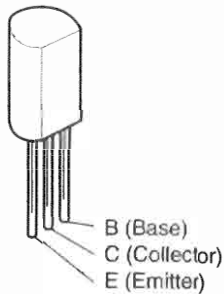


● TRANSISTORS

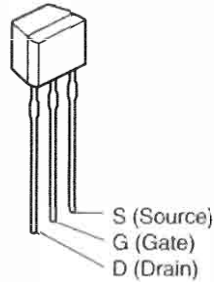
2SA970 (BL)
 2SA988 (E/F)
 2SC1015 (GR)
 2SC1815 (BL)
 2SC1841 (E/F)
 2SC2058 (Q)
 2SC2878 (A/B)



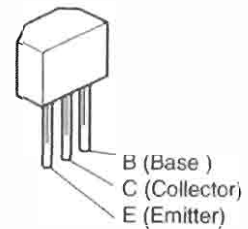
2SB647A (C)
 2SB1041 (R)
 2SD667A (C)
 2SD1292 (R)
 2SC4208A (R)



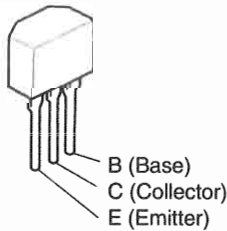
2SK365 (BL/RG)
 (FET)



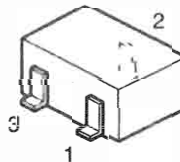
2SA933S (S)
 2SC1740S (S)
 2SC1740SLN (E)



DTA114ES
 DTA114TS
 DTC114ES
 DTC143ES
 DTC144ES
 DTC144TS
 DTC323TS

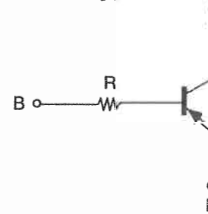


DTC143EK
 DTC144EK



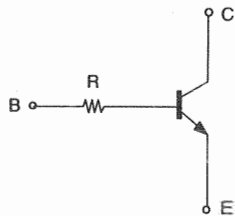
1: GND/Emitter
 2: Out/Collector
 3: In/Base

PNP Type



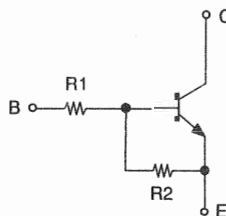
	R
DTA114TS	10kohm

NPN Type



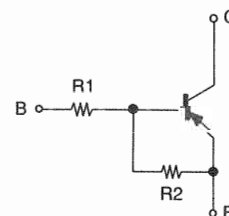
	R
DTC144 TS	4.7kohm
DTC323TS	2.2kohm

NPN Type



	R1	R2
DTC114ES	10kohm	10kohm
DTC143ES	4.7kohm	4.7kohm
DTC144ES	47kohm	47kohm
DTC143EK	4.7kohm	4.7kohm
DTC144EK	47kohm	47kohm

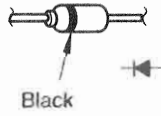
PNP Type



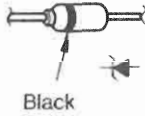
	R1	R2
DTA114ES	10kohm	10kohm

● DIODES (included LED)

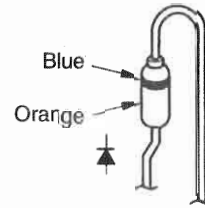
1SS252
1S2471



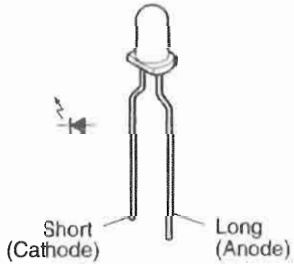
MTZJ3.3A MTZJ8.2B
MTZJ6.2A MTZJ27D
MTZJ6.8A



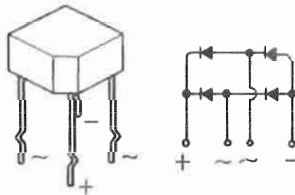
1SR35-200A



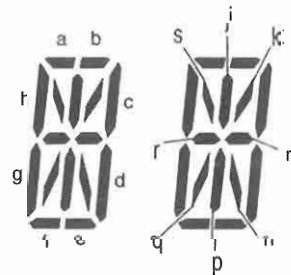
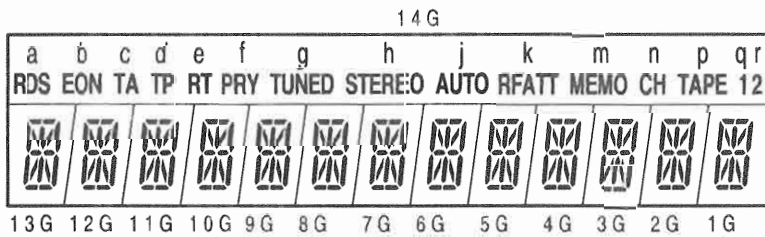
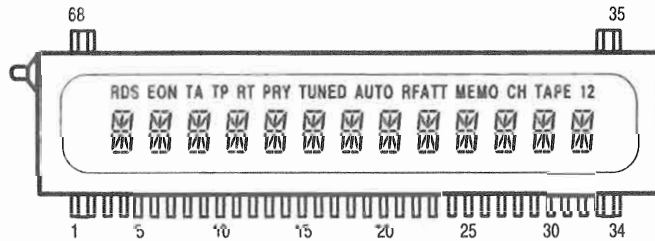
SEL1210S (Red)



S4VB20



FL (FIP14AM7R)
(FL701)



TERMINAL CONNECTION

(UPPER)

TERMINAL No.	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52				
ELECTRODE	F1	F1	F1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP				
TERMINAL No.				51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	
ELECTRODE				NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	F2	F2

(LOWER)

TERMINAL No.				18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
ELECTRODE				P	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	F2	F2	
TERMINAL No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
ELECTRODE	F1	F1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	s	r	q	p

Notes: F: Filament G: Grid P: Anode NP: No-Pin

NOTE FOR PARTS LIST

- Part indicated with the mark " * " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "1" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

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

● **Resistors**

Ex.	RN	14K	2E	182	G	FR	
	Type	Shape and performance	Power	Resistance	Allowable error	Others	
	↓	↓	↓	↓	↓	↓	
RD	Carbon		2B : 1/8W	F : ±1%	P : Pulse-resistant type		
RC	Composition		2E : 1/4W	G : ±2%	NL : Low noise type		
RS	Metal oxide film		2H : 1/2W	J : ±5%	NB : Non-burning type		
RW	Winding		3A : 1W	K : ±10%	FR : Fuse-resistor		
RN	Metal film		3D : 2W	M : ±20%	F : Lead wire forming		
RK	Metal mixture		3F : 3W				
			3H : 5W				

* **Resistance**

1 8 2 ⇒ 1800 ohm = 1.8 kohm
 Indicates number of zeros after effective number.
 2-digit effective number.

• Units: ohm

1 R 2 ⇒ 1.2 ohm
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.

• Units: ohm

● **Capacitors**

Ex.	CE	04W	1H	2R2	M	BP	
	Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others	
	↓	↓	↓	↓	↓	↓	
CE	Aluminum foil electrolytic		0J : 6.3V	F : ±1%	HS : High stability type		
CA	Aluminum solid electrolytic		1A : 10V	G : ±2%	BP : Non-polar type		
CS	Tantalum electrolytic		1C : 16V	J : ±5%	HR : Ripple-resistant type		
CQ	Film		1E : 25V	K : ±10%	DL : For charge and discharge		
CK	Ceramic		1V : 35V	M : ±20%	HF : For assuring high frequency		
CC	Ceramic		1H : 50V	Z : +80%	U : UL part		
CP	Oil		2A : 100V	-20%	C : CSA part		
CM	Mica		2B : 125V	P : +100%	W : UL-CSA type		
CF	Metallized		2C : 160V	-0%	F : Lead wire forming		
CH	Metallized		2D : 200V	C : ±0.25pF			
			2E : 250V	D : ±0.5pF			
			2H : 500V	= : Others			
			2J : 630V				

* **Capacity (electrolyte only)**

2 2 2 ⇒ 2200µF
 Indicates number of zeros after effective number.
 2-digit effective number.

• Units: µF.

2 R 2 ⇒ 2.2µF
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.

• Units: µF.

* **Capacity (except electrolyte)**

2 2 2 ⇒ 2200pF = 0.0022µF
 (More than 2) — Indicates number of zeros after effective number.
 2-digit effective number.

• Units: µF.

2 2 1 ⇒ 220pF
 (0 or 1) — Indicates number of zeros after effective number.
 2-digit effective number.

• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

Version	U.S.A., Canada and Taiwan R.O.C.	Asia
P.W.B. name		
Main amp	1U-2865E	1U-2865G
Rear amp	1U-2866E	1U-2866G
Input & Surround	1U-2867E	1U-2867G
FLD & Video	1U-2883E	1U-2883G
Tuner & Volume	1U-2889	1U-2889B

PARTS LIST OF P. W. BOARD
1U-2865E MAIN AMP P.W.B. UNIT ASS'Y
for U.S.A., Canada and Taiwan R.O.C. models

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				RESISTORS GROUP			
IC451	263 0565 007	IC BA15218		VR301,302	211 6064 048	Semi fixed resistor 5kohm	V06PB502
IC551	263 0793 002	IC NJM7806FA(S)		VR401	211 6064 048	Semi fixed resistor 5kohm	V06PB502
IC913,914	262 1295 001	IC UPD4094BC		VR451	211 0798 103	Variable resistor 100kohm	V14V20FW104K
TR301~304	271 0094 919	Transistor 2SA970(BL)		VR452	211 0797 117	Variable resistor 30kohm	V14V20FC303K
TR305,306	271 0131 924	Transistor 2SA988(E/F)		VR453	211 0797 133	Variable resistor 10kohm	V14V20FC103K
TR307~312	273 0235 923	Transistor 2SC1841(E/F)		△R315~318	241 2380 963	Carbon 2.2kohm 1/4W	RD14B2E222JNBS
TR313,314	273 0380 001	Transistor 2SC4208A(R)		△R319,320	241 2315 967	Carbon 68ohm 1/4W	RD14B2E680GFRS
TR315,316	274 0060 900	Transistor 2SD667A(C)		△R321~324	241 2377 976	Carbon 130ohm 1/4W	RD14B2E131JNBS
TR317,318	271 0053 908	Transistor 2SB647A(C)		△R331,332	241 2378 920	Carbon 220ohm 1/4W	RD14B2E221JNBS
TR323,324	273 0235 923	Transistor 2SC1841(E/F)		△R333~340	244 2043 982	Metallic 0.22ohm 1W	RS14B3AR22JNBS(S)
TR325	271 0131 924	Transistor 2SA988(E/F)		△R371~374	244 2043 982	Metallic 0.22ohm 1W	RS14B3AR22JNBS(S)
TR351,352	271 0131 924	Transistor 2SA988(E/F)		△R384	241 2387 940	Carbon 4.7ohm 1/4W	RD14B2E4R7JNBS
TR353	273 0303 910	Transistor 2SC1740S(S)		△R408,409	241 2380 963	Carbon 2.2kohm 1/4W	RD14B2E222JNBS
TR354	271 0192 905	Transistor 2SA933S(S)		△R410	241 2315 967	Carbon 68ohm 1/4W	RD14B2E680GFRS
TR355	272 0131 901	Transistor 2SB1041(R)		△R411,412	241 2377 976	Carbon 130ohm 1/4W	RD14B2E131JNBS
TR401	271 0094 919	Transistor 2SA970(BL)		△R416	241 2378 920	Carbon 220ohm 1/4W	RD14B2E221JNBS
TR403	271 0094 919	Transistor 2SA970(BL)		△R417~420	244 2043 982	Metallic 0.22ohm 1W	RS14B3AR22JNBS(S)
TR405	271 0131 924	Transistor 2SA988(E/F)		△R431	244 2051 987	Metallic 4.7ohm 1W	RS14B3A4R7JNBS(S)
TR407	273 0235 923	Transistor 2SC1841(E/F)		△R433,434	244 2051 987	Metallic 4.7ohm 1W	RS14B3A4R7JNBS(S)
TR409	273 0235 923	Transistor 2SC1841(E/F)		△R481,482	241 2377 963	Carbon 120ohm 1/4W	RD14B2E121JNBS
TR411	273 0235 923	Transistor 2SC1841(E/F)		CAPACITORS GROUP			
TR413	273 0380 001	Transistor 2SC4208A(R)		C301,302	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
TR415	274 0060 900	Transistor 2SD667A(C)		C303,304	253 1179 945	Ceramic 220pF/50V	CK45B1H221K
TR417	271 0053 908	Transistor 2SB647A(C)		C305,306	253 1179 945	Ceramic 220pF/50V	CK45B1H221K
TR423	273 0235 923	Transistor 2SC1841(E/F)		C307,308	255 1265 907	Film 6800pF/50V	CQ93M1H682J(B)
TR441	273 0253 918	Transistor 2SC2878(A/B)		C309,310	253 1179 903	Ceramic 100pF/50V	CK45B1H101K
TR442	269 0022 904	Transistor DTA143ES(4.7k-4.7k)	Built in Resistor	C311,312	254 4256 952	Electrolytic 220μF/25V	CE04W1E221M
TR443	269 0018 905	Transistor DTC143ES(4.7k-4.7k)	Built in Resistor	C313~316	255 1264 908	Film 1000pF/50V	CQ93M1H102J(B)
TR481~483	273 0303 910	Transistor 2SC1740S(S)		C317,318	253 4476 904	Ceramic 18pF/500V	CC45SL2H180J
TR484~486	273 0303 910	Transistor 2SC1740S(S)		C319,320	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
TR487	271 0192 905	Transistor 2SA933S(S)		C321,322	255 1265 936	Film 0.01μF/50V	CQ93M1H103J(B)
TR488	269 0040 902	Transistor DTC144ES(47k-47k)		C325,326	253 1128 909	Ceramic 220pF/500V	CK45B2H221K
TR551	273 0303 910	Transistor 2SC1740S(S)		C327	255 1265 936	Film 0.01μF/50V	CQ93M1H103J(B)
TR801	269 0018 905	Transistor DTC143ES(4.7k-4.7k)	Built in Resistor	C331~334	254 4262 904	Electrolytic 4.7μF/63V	CE04W1J4R7M
TR802	273 0303 910	Transistor 2SC1740S(S)		C351,352	254 6197 006	Electrolytic 8200μF/56V	CE68W==822MC(DL)
TR803	269 0022 904	Transistor DTA143ES(4.7k-4.7k)	Built in Resistor	C355	256 1042 903	Metalzide 0.1μF/250V	CF93A2E104K
TR901~907	269 0022 904	Transistor DTA143ES(4.7k-4.7k)	Built in Resistor				
D301~306	276 0616 907	Diode 1SS252					
D307~310	276 0619 904	Diode 1S2471					
D311,312	276 0616 907	Diode 1SS252					
D351	276 0305 001	Diode S4VB20					
D352	276 0616 907	Diode 1SS252					
D401	276 0616 907	Diode 1SS252					
D403	276 0616 907	Diode 1SS252					
D405	276 0616 907	Diode 1SS252					
D407	276 0619 904	Diode 1S2471					
D409	276 0619 904	Diode 1S2471					
D411	276 0616 907	Diode 1SS252					

Ref. No.	Part No.	Part Name	Remarks
C356,357	256 1034 979	Metalizde 0.1μF/50V	CF93A1H104J
C358,359	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C360	254 4258 918	Electrolytic 10μF/35V	CE04W1V100M
C401	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C402	255 1264 940	Film 2200pF/50V	CQ93M1H222J(B)
C403	253 1179 945	Ceramic 220pF/50V	CK45B1H221K
C404	255 1265 949	Film 0.012μF/50V	CQ93M1H123J(B)
C405	253 4537 911	Ceramic 30pF/50V	CC45SL1H300J
C406	254 4256 952	Electrolytic 220μF/25V	CE04W1E221M
C407,408	255 1264 908	Film 1000pF/50V	CQ93M1H102J(B)
C409	253 4481 902	Ceramic 30pF/500V	CC45SL2H300J
C410	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C411	255 1265 936	Film 0.01μF/50V	CQ93M1H103J(B)
C421,422	254 4262 904	Electrolytic 4.7μF/63V	CE04W1J4R7M
C425	253 1128 909	Ceramic 220pF/500V	CK45B2H221K
C426,427	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
C429	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C431	256 1042 903	Metalizde 0.1μF/250V	CF93A2E104K
C432	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C433,434	256 1042 903	Metalizde 0.1μF/250V	CF93A2E104K
C441,442	253 1053 003	Ceramic 0.01μF/500V	CK45E2H103P
C451,452	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C455,456	253 1179 903	Ceramic 100pF/50V	CK45B1H101K
C457,458	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M
C459,460	255 1264 94C	Film 2200pF/50V	CQ93M1H222J(B);
C461,462	256 1035 907	Metalizde 0.18μF/50V	CF93A1H184J
C463,464	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C467,466	255 1265 949	Film 0.012μF/50V	CQ93M1H123J(B);
C469,470	256 1034 94C	Metalizde 0.056μF/50V	CF93A1H563J
C471,472	254 4260 922	Electrolytic 0.33μF/50V	CE04W1HR33M
C473	253 9031 904	Ceramic 0.047μF/25V	CK45=1E473K
C474	253 1181 917	Ceramic 0.022μF/50V	CK45F1H223Z
C481	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M
C482	254 4250 945	Electrolytic 330μF/6.3V	CE04W0J331M
C498,499	253 9039 906	Ceramic 0.1μF/25V	CK45=1E104Z
C551	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C552	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C801	254 4250 783	Electrolytic 3300μF/6.3V	CE04W0J332MC
C802,803	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C804	254 4258 905	Electrolytic 4.7μF/35V	CE04W1V4R7M
C805	256 1034 982	Metalizde 0.12μF/50V	CF93A1H124J
C806	254 4250 932	Electrolytic 220μF/6.3V	CE04W0J221M
C807	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C921	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M

Ref. No.	Part No.	Part Name	Remarks
OTHERS PARTS GROUP			
	EP- 5667 H2	Terminal	
	415 0610 016	UL tube (L=10)	TR313,314,413
CN3D	205 0967 036	3P TXC base (P)	
CN4A	205 0233 045	4P EH connector base	
CN4B	205 0969 047	4P TAC-L base	
CN5A	205 0233 058	5P EH connector base	
CN6A,6B,6C	205 0969 063	6P TAC-L base	
CN7A,7B	205 0967 078	7P TXC base (P)	
CN9A	205 0967 094	9P TXC base (P)	
CN10A,10B	205 0967 007	10P TXC base (P)	
CN11A	205 0275 016	11P EH connector base	
CN13A	205 0974 032	13P TXC base (P)	
CN14A	205 0375 042	14P connector base (KR-PH)	
CN25A	205 0736 089	25P FFC connector base	
J-PR	203 0524 046	1P SIN cord Ass'y	
JK301	204 8509 011	2P pin jack(C-GND)	
K-OR	203 0524 059	1P SIN cord Ass'y	
L301,302	235 0104 007	Inductor(1MH)	
L401	235 0104 007	Inductor(1MH)	
Q-BK	203 0632 080	1P SIN cord Ass'y	
RL481	214 0129 001	Relay(DH2TU)	
RL482	214 0187 001	Relay(DH24D2-OS(M)-2)	
SP003	205 0971 006	2P push terminal	
TP301,302	205 0190 036	3P NH connector base	
TP401	205 0190 036	3P NH connector base	

**1U-2865G MAIN AMP P.W.B. UNIT ASS'Y
for Asia model.**

(Same as 1U-2865E except the followings)

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R375	241 2399 925	Carbon 2.0kohm 1/4W	Change
R385	241 2399 938	Carbon 2.2kohm 1/4W	Add
CAPACITORS GROUP			
C428	255 1264 982	Film 4700pF/50V	Add

1U-2867E INPUT & SURROUND P.W.B. UNIT ASS'Y
 for U.S.A., Canada and Taiwan R.O.C. models

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP							
IC101	263 0672 903	IC BA4558F		R212	247 0010 929	Carbon Chip 15kohm 1/10W	RM73B-153J
IC102	262 1228 007	IC LC7822		R213	247 0009 969	Carbon Chip 8.2kohm 1/10W	RM73B-822J
IC103	263 0672 903	IC BA4558F		R214	247 0010 929	Carbon Chip 15kohm 1/10W	RM73B-153J
IC110	263 0359 006	IC LC4966		R215	247 0013 942	Carbon Chip 330kohm 1/10W	RM73B-334J
IC201	263 0938 003	IC DDSC-A		R218-220	247 0011 944	Carbon Chip 47kohm 1/10W	RM73B-473J
IC202	262 1874 008	IC NJU9701G		R221-223	247 0009 969	Carbon Chip 8.2kohm 1/10W	RM73B-822J
IC203	262 1875 900	IC BU4066BCF		R224	247 0014 967	Carbon Chip 1Mohm 1/10W	RM73B-105J
IC205	262 1875 900	IC BU4066BCF		R225	247 0010 929	Carbon Chip 15kohm 1/10W	RM73B-153J
TR151	269 0048 904	Transistor DTC143EK(4.7k-4.7k)	Built in Resistor	R226	247 0010 945	Carbon Chip 18kohm 1/10W	RM73B-183J
TR201	269 0055 900	Transistor DTA144EK(47k-47k)	Built in Resistor	R227	247 0010 929	Carbon Chip 15kohm 1/10W	RM73B-153J
TR202,203	269 0054 901	Transistor DTC144EK(47k-47k)	Built in Resistor	R228,229	247 0003 936	Carbon Chip 20ohm 1/10W	RM73B-200J
TR205	269 0054 901	Transistor DTC144EK(47k-47k)	Built in Resistor	R230	247 0009 956	Carbon Chip 7.5kohm 1/10W	RM73B-752J
TR206	269 0048 904	Transistor DTC143EK(4.7k-4.7k)	Built in Resistor	R231	247 0009 927	Carbon Chip 5.6kohm 1/10W	RM73B-562J
TR207-209	269 0054 901	Transistor DTC144EK(47k-47k)	Built in Resistor	R232	247 0010 945	Carbon Chip 18kohm 1/10W	RM73B-183J
TR210	274 0169 908	Transistor 2SD1292(R)		R233-235	247 0011 944	Carbon Chip 47kohm 1/10W	RM73B-473J
D202-205	276 0616 907	Diode 1SS252		△R236	241 2387 940	Carbon 4.7ohm 1/4W	RD14B2E4R7JNBS
ZD201	276 0637 902	Zener Diode MTZJ6.2A		R237	247 0007 945	Carbon Chip 1kohm 1/10W	RM73B-102J
RESISTORS GROUP (Not included carbon film ±5% 1/4W)							
R101,102	247 0006 946	Carbon Chip 390ohm 1/10W	RM73B-391J	R239,240	247 0005 905	Carbon Chip 100ohm 1/10W	RM73B-101J
R103,104	247 0011 986	Carbon Chip 68kohm 1/10W	RM73B-683J	R241,242	247 0006 962	Carbon Chip 470ohm 1/10W	RM73B-471J
R105,106	247 0012 969	Carbon Chip 150kohm 1/10W	RM73B-154J	R243	247 0012 927	Carbon Chip 100kohm 1/10W	RM73B-104J
R107,108	247 0004 922	Carbon Chip 47ohm 1/10W	RM73B-470J	R251,252	247 0008 928	Carbon Chip 2.2kohm 1/10W	RM73B-222J
R109,110	247 0007 945	Carbon Chip 1kohm 1/10W	RM73B-102J	R253,254	247 0009 901	Carbon Chip 4.7kohm 1/10W	RM73B-472J
R111,112	247 0014 909	Carbon Chip 560kohm 1/10W	RM73B-564J	R291	247 0009 985	Carbon Chip 10kohm 1/10W	RM73B-103J
R113,114	247 0011 944	Carbon Chip 47kohm 1/10W	RM73B-473J	CAPACITORS GROUP			
R115,116	247 0003 949	Carbon Chip 22ohm 1/10W	RM73B-220J	C101,102	257 0005 944	Ceramic 220pF/50V	CC73SL1H221J
R117,118	247 0005 905	Carbon Chip 100ohm 1/10W	RM73B-101J	C103,104	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
R119,120	247 0013 984	Carbon Chip 470kohm 1/10W	RM73B-474J	C107,108	254 4254 925	Electrolytic 33μF/16V	CE04W1C330M
R121-128	247 0015 966	Carbon Chip 2.7Mohm 1/10W	RM73B-275J	C109,110	255 1264 995	Film 5600pF/50V	CQ93M1H562J(B)
R133-144	247 0006 962	Carbon Chip 470ohm 1/10W	RM73B-471J	C111,112	257 0009 908	Ceramic 1500PF/50V	CK73B1H152K
R145	247 0014 925	Carbon Chip 680kohm 1/10W	RM73B-684J	C113,114	257 0012 966	Ceramic 0.01μF/50V	CK73F1H103Z
R151,152	247 0006 962	Carbon Chip 470ohm 1/10W	RM73B-471J	C115,116	254 4260 951	Electrolytic 2.2μF/50V	CE04W1H2R2M
R153,154	247 0011 986	Carbon Chip 68kohm 1/10W	RM73B-683J	C129-131	253 9039 906	Ceramic 0.1μF/25V	CK45-1E104Z
R155,156	247 0012 969	Carbon Chip 150kohm 1/10W	RM73B-154J	C133	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
R157-160	247 0005 905	Carbon Chip 100ohm 1/10W	RM73B-101J	C136-138	257 0012 982	Ceramic 0.022μF/50V	CK73F1H223Z
R201	247 0009 956	Carbon Chip 7.5kohm 1/10W	RM73B-752J	C139	257 0009 924	Ceramic 2200PF/50V	CK73B1H222K
R202	247 0011 944	Carbon Chip 47kohm 1/10W	RM73B-473J	C151,152	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
R203	247 0010 929	Carbon Chip 15kohm 1/10W	RM73B-153J	C153,154	257 0004 961	Ceramic 100pF/50V	CC73SL1H101J
R204	247 0009 956	Carbon Chip 7.5kohm 1/10W	RM73B-752J	C155,156	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
R205	247 0011 944	Carbon Chip 47kohm 1/10W	RM73B-473J	C201,202	256 1034 979	Metalizde 0.1μF/50V	CF93A1H104J
R206	247 0010 929	Carbon Chip 15kohm 1/10W	RM73B-153J	C203	257 0006 969	Ceramic 680pF/50V	CC73SL1H681J
R207	247 0016 923	Carbon Chip 4.7Mohm 1/10W	RM73B-475K	C204	256 1034 937	Metalizde 0.047μF/50V	CF93A1H473J
R208,209	247 0011 960	Carbon Chip 56kohm 1/10W	RM73B-563J	C205,206	256 1034 979	Metalizde 0.1μF/50V	CF93A1H104J
R210	247 0012 927	Carbon Chip 100kohm 1/10W	RM73B-104J	C207	257 0006 969	Ceramic 680pF/50V	CC73SL1H681J
R211	247 0019 988	Carbon Chip 100kohm 1/10W	RM73B-104F	C208	256 1034 937	Metalizde 0.047μF/50V	CF93A1H473J
				C209	254 4254 912	Electrolytic 22μF/16V	CE04W1C220M
				C210,211	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
				C212	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M
				C213	255 1264 982	Film 4700pF/50V	CQ93M1H472J(B)

1U-2867G INPUT & SURROUND P.W.B. UNIT ASS'Y
for Asia model
(Same as 1U-2867E except the followings)

Ref. No.	Part No.	Part Name	Remarks
C214	254 4254 912	Electrolytic 22μF/16V	CE04W1C220M
C215	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C216	256 1035 910	Metalizide 0.22μF/50V	CF93A1H224J
C217,218	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C219	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
C220	255 1264 995	Film 5600pF/50V	CQ93M1H562J(B)
C221	254 4250 958	Electrolytic 470μF/6.3V	CE04W0J471M
C222	256 1034 937	Metalizide 0.047μF/50V	CF93A1H473J
C223	257 0006 927	Ceramic 470pF/50V	CC73SL1H471J
C224	257 0009 924	Ceramic 2200PF/50V	CK73B1H222K
C225	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C226	256 1035 978	Metalizide 0.68μF/50V	CF93A1H684J
C227-229	256 1035 910	Metalizide 0.22μF/50V	CF93A1H224J
C230,231	254 4260 977	Electrolytic 4.7μF/50V	CE04W1H4R7M
C232	256 1035 910	Metalizide 0.22μF/50V	CF93A1H224J
C233-236	256 1034 979	Metalizide 0.1μF/50V	CF93A1H104J
C237,238	255 1265 978	Film 0.022μF/50V	CQ93M1H223J(B)
C239-241	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C242	257 0014 935	Ceramic 0.1μF/25V	CK73F1E104Z
C243,244	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C245	257 0006 927	Ceramic 470pF/50V	CC73SL1H471J
C246	257 0009 940	Ceramic 3300PF/50V	CK73B1H332K
C247	257 0014 935	Ceramic 0.1μF/25V	CK73F1E104Z
C248,249	257 0013 907	Ceramic 0.047μF/50V	CK73F1H473Z
C250	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M
C251	257 0014 935	Ceramic 0.1μF/25V	CK73F1E104Z
C252	257 0006 927	Ceramic 470pF/50V	CC73SL1H471J
C253,254	257 0009 979	Ceramic 5600PF/50V	CK73B1H562K
C255	257 0014 935	Ceramic 0.1μF/25V	CK73F1E104Z
C256	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C257	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M
C259,260	257 0005 944	Ceramic 220pF/50V	CC73SL1H221J
C280	257 0012 982	Ceramic 0.022μF/50V	CK73F1H223Z
C291	257 0012 982	Ceramic 0.022μF/50V	CK73F1H223Z

OTHERS PARTS GROUP

CN3C	205 0966 037	3P TXC Socket(X)	
CN6B	205 0970 065	6P TAC-L Socket	
CN10A	205 0966 008	10P TXC Socket(X)	
CN13A	205 0968 035	13P TXC Socket(X)	
JK101-103	204 8497 000	4P Pin Jack (GND)(K)	
JK104	204 8509 008	2P Pin Jack (C-GND)	
L201	235 0060 989	Inductor (121)	
XT201	399 0223 907	Crystal (CSA2.00MG-TF01)	

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	263 0896 909	IC NJM2068MD	Change
RESISTORS GROUP			
J101,102	241 2400 911	Carbon 4.7kohm 1/4W	Add
CAPACITORS GROUP			
C281,282	255 1264 908	Film 0.001μF/50V	Add
C121-128	257 0004 903	Ceramic 56pF/50V	Add
C147,148	257 0004 961	Ceramic 100pF/50V	Add
C105,106	257 0004 961	Ceramic 100pF/50V	Add
OTHERS PARTS GROUP			
LF101,102	235 9003 002	FTZ Choke Coil	Add

1U-2866E REAR AMP P.W.B. UNIT ASS'Y
for U.S.A., Canada and Taiwan R.O.C. models

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC501,502	263 0855 005	IC SI-18725	
IC503	263 0801 004	IC NJM7812FA(S)	
IC504	263 0641 002	IC NJM7912FA	
IC505,506	268 0074 904	IC ICP-N20	
IC511	263 0359 006	IC LC4966	
IC512	263 0565 007	IC BA15218	
TR531	273 0303 910	Transistor 2SC1740S(S)	
TR532	269 0020 906	Transistor DTC114ES(10k-10k)	
TR533	269 0040 902	Transistor DTC144ES(47k-47k)	
TR552	273 0303 910	Transistor 2SC1740S(S)	
D501	276 0616 907	Diode 1SS252	
D502	276 0305 001	Diode S4VB20	
D551	276 0616 907	Diode 1SS252	
D552-557	276 0553 905	Diode 1SR35-200A	
TH531	279 0034 067	Thermistor	PTH9M04B8222TS2F333

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
△R361-364	244 2052 960	Metallic 220ohm 1W	RS14B3A221JNBS(S)
△R509,510	244 2051 987	Metallic 4.7ohm 1W	RS14B3A4R7JNBS(S)
△R513	241 2377 963	Carbon 120ohm 1/4W	RD14B2E121JNBS
△R556	241 2375 978	Carbon 20ohm 1/4W	RD14B2E200JNBS
△R557	242 0073 000	Metallic 2.2Mohm 1/2W	RC05GF2H225K
CAPACITORS GROUP			
C365,366	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C399	253 9039 906	Ceramic 0.1μF/25V	CK45=1E104Z
C501,502	253 1179 903	Ceramic 100pF/50V	CK45B1H101K
C503,504	254 4260 951	Electrolytic 2.2μF/50V	CE04W1H2R2M
C505,506	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M
C507,508	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C511,512	256 1034 979	Metalizde 0.1μF/50V	CF93A1H104J
C513,514	255 1265 936	Film 0.01μF/50V	CQ93M1H103J(B)
C517,518	254 4259 713	Electrolytic 3300μF/35V	CE04W1V332MC
C519,520	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C521,522	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C524	256 1042 903	Metalizde 0.1μF/250V	CF93A2E104K
C526	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C527,528	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C542	254 4260 951	Electrolytic 2.2μF/50V	CE04W1H2R2M
C554	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C555	254 4256 790	Electrolytic 2200μF/25V	CE04W1E222MC
C556,557	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C558	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
△C559	253 8014 702	Ceramic 0.01μF/400V AC	CK45F2GAC103MC
C561	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M
OTHERS PARTS GROUP			
	513 2492 002	Fuse Label	F001
	513 2492 015	Fuse Label	F002
△	233 6073 000	Power Trans	
	415 0496 036	UL Tube (12.7) BK	
	415 0309 039	PVC Tube	TH531
	202 0040 909	Fuse Clip	
	EP- 5667 H2	Terminal	
CN4A	203 6475 018	4P EH-SCN connector cord	
CN11A	204 6552 002	11P EH-SCN connector cord	
A-YW	203 0534 065	1P SIN Cord Ass'y	
B-WT	203 0534 078	1P SIN Cord Ass'y	
C-RD	203 0632 051	1P SIN Cord Ass'y	
D-BU	203 0632 035	1P SIN Cord Ass'y	
E-BR	203 0632 064	1P SIN Cord Ass'y	
F-GY	203 0632 048	1P SIN Cord Ass'y	
G,H-BK	203 0524 033	1P SIN Cord Ass'y	
L-BR	203 0524 075	1P SIN Cord Ass'y	

Ref. No.	Part No.	Part Name	Remarks
T-GY	203 0524 062	1P SIN Cord Ass'y	
M-BR	203 0633 021	1P Contact Ass'y	
N-BR	203 0633 018	1P contact Ass'y	
△F001	206 1076 039	Fuse 10.0A	
△F002	206 1076 026	Fuse 8.0A	
△F011,012	206 1076 000	Fuse 5.0A	
△JK501	203 3941 008	AC Outlet (2P)	
JK502	204 8503 004	:Headphone Jack	
L501,502	235 0104 007	Inductor(1MH)	
RL501	214 0187 001	Relay(DH24D2-OS(M)-2)	
RL551	214 0188 000	Relay(VS-12MBNR-SM2) (TV-8)	
SP301,302	205 0952 009	4P SP Terminal	
SP501	205 0972 005	4P push Terminal	
SW001	212 4778 009	2P push Switch	

**1U-2866G REAR AMP P.W.B. UNIT ASS'Y
for Asia model
(Same as 1U-2866E except the followings)**

Ref. No.	Part No.	Part Name	Remarks
RESISTOR GROUP			
△R557	242 0073 000	Metallic 2.2Mohm 1/2W	Delete
CAPACITORS GROUP			
C361-364	255 1265 907	Film 6800pF/50V	Add
C531,532	253 1179 903	Ceramic 100pF/50V	Change
OTHERS PARTS GROUP			
△	203 3941 008	AC Outlet (2P)	Delete
△	233 6058 012	Power Trans	Change
	202 0040 909	Fuse Clip	Change
	EP- 5667 H2	Terminal(L=20)	Change
F001	206 1076 039	Fuse 10A	Delete
F002	206 1075 056	Fuse 3.15A	Change
F011,012	206 1076 000	Fuse 5.0A	Delete
	513 2492 031	:Fuse Label	Add
	205 0606 025	2P Wrapping Terminal	Add
	203 0640 001	1P SIN Cord Ass'y	Delete
	203 0640 014	1P SIN Cord Ass'y	Delete

1U-2883E FLD & VIDEO P.W.B. UNIT ASS'Y
for U.S.A., Canada and Taiwan R.O.C. models

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				OTHERS PARTS GROUP			
IC601,602	262 1873 009	IC :BU4066BC		C624	254 4260 977	Electrolytic 4.7μF/50V	CE04W1H4R7M
IC603	263 0793 002	IC NJM7806FA(S)		C625	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
IC604	262 2036 010	IC M35012-089SP		C626	253 1118 906	Ceramic 3300pF/50V	CK45B1H332K
IC605	263 0682 003	IC NJM2229S		C627	253 1179 987	Ceramic 470pF/50V	CK45B1H471K
IC606	268 0073 905	IC ICP-N15		C628	256 1034 953	Metalizde 0.068μF/50V	CF93A1H683J
IC701	262 2241 012	IC TMP87CM71F-****		C629	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
IC702	499 0291 006	IC TFMT5380		C630	253 4440 901	Ceramic 150pF/50V	CC45SL1H151J
TR601,602	273 0198 918	Transistor 2SC1815(BL)		C631	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
TR603-605	271 0102 924	Transistor 2SC1015(GR)		C632	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
TR661,662	273 0198 918	Transistor 2SC1815(BL)		C633	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M
TR701,702	269 0020 906	Transistor DTC114ES(10k-10k)	Built in Resistor	C634	253 1180 921	Ceramic 1000pF/50V	CK45B1H102K
D601-604	276 0553 905	Diode 1SR35-200A		C635	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
D605,606	276 0616 907	Diode 1SS252		C640	253 1180 934	Ceramic 1200pF/50V	CK45B1H122K
D611	276 0616 907	Diode 1SS252		C641	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
D613-617	276 0616 907	Diode 1SS252		C651	254 4260 951	Electrolytic 2.2μF/50V	CE04W1H2R2M
D661	276 0616 907	Diode 1SS252		C652	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M
D701,702	276 0616 907	Diode 1SS252		C653	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
ZD701	276 0636 903	Zener Diode MTZJ8.2B		C703	254 4260 977	Electrolytic 4.7μF/50V	CE04W1H4R7M
LD701,702	393 9434 906	LED SEL1210S		C705	254 4250 929	Electrolytic 100μF/6.3V	CE04W0J101M
RESISTORS GROUP							
R628	241 2387 908	Carbon 1ohm 1/4W	RD14B2E010JNBS		203 0633 018	1P Contact Ass'y	
R630	241 2387 908	Carbon 1ohm 1/4W	RD14B2E010JNBS		203 0524 088	1P SIN Cord Ass'y	
△R699	241 2387 908	Carbon 1ohm 1/4W	RD14B2E010JNBS	CF601	399 0105 009	CSB503F2	
CAPACITORS GROUP				CN2A	205 0075 025	2P Terminal	
C395,396	253 9039 906	Ceramic 0.1μF/25V	CK45=1E104Z	CN3B	203 5080 019	3P SCN-SCN Connector Cord	
C601-603	254 4252 927	Electrolytic 47μF/10V	CE04W1A470M	CN4B	205 0970 049	4P TAC-L Socket	
C604	254 4254 789	Electrolytic 100μF/16V	CE04W1C102MC	CN5A	203 8351 017	5P EH-SCN Cord	
C605,606	253 4535 955	Ceramic 5pF/50V	CC45SL1H050C	CN10B	205 0966 008	10P TXC Socket (X)	
C607,608	254 4252 778	Electrolytic 100μF/10V	CE04W1A102MC	CN14A	204 6554 000	14P PH-SAN Connector Cord	
C609	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M	CN25A	205 0736 089	25P FFC Connector Base	
C610	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z	FL701	393 4155 002	FLD (FIP14AM7R)	
C611	254 4254 792	Electrolytic 2200μF/16V	CE04W1C222MC	JK391	204 8523 000	3P Pin Jack	
C612	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M	JK601,602	204 8468 000	2P Pin Jack	
C613	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z	L601	235 0060 963	Inductor (150)	
C614	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M	SW701-704	212 4788 002	Tact Switch	
C615	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z	SW708-723	212 4788 002	Tact Switch	
C616	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M	SW725-730	212 4788 002	Tact Switch	
C617,618	253 4537 924	Ceramic 33pF/50V	CC45SL1H330J	XT601	399 0153 006	Crystal (14.32MHz-12PF)	
C619	253 4536 925	Ceramic 12pF/50V	CC45SL1H120J	XT701	399 0261 901	Crystal (CO.DCRHTP4.00M)	
C620	253 4536 909	Ceramic 10pF/50V	CC45SL1H100D				
C621	253 4537 924	Ceramic 33pF/50V	CC45SL1H330J				
C622	253 1118 906	Ceramic 3300pF/50V	CK45B1H332K				
C623	255 1265 978	Film 0.022μF/50V	CQ93M1H223J(B)				

1U-2883G FLD & VIDEO P.W.B. UNIT ASS'Y
for Asia model
Same as 1U-2883E except the followings)

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP			
C391,392	253 4537 982	Ceramic 56pF/50V	Add

1U-2889 TUNER & VOLUME P.W.B. UNIT ASS'Y
for U.S.A., Canada Taiwan R.O.C. models

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC001	263 0891 001	IC LA1265(S)	
IC002	263 0439 007	IC LA3401	
IC003	262 0719 009	IC LM7001	
IC004	261 0102 008	IC Front end	
IC261	263 0322 004	IC BA4558	
IC262	262 0625 009	IC TC9176P	
IC263	263 0322 004	IC BA4558	
IC264	263 0927 001	IC BA6208S	
TR002	273 0434 902	Transistor 2SC2058(Q)	
TR003,004	269 0046 906	Transistor DTA114ES(10k-10k)	Built in Resistor
TR005	273 0435 901	Transistor 2SC1740SLN(E)	
TR006	275 0053 907	Transistor 2SK365(BL/GR)	
TR007,008	269 0072 909	Transistor DTC323TS(2.2k)	Built in Resistor
TR009	269 0079 902	Transistor DTC144TS(47k)	Built in Resistor
TR010	269 0080 904	Transistor DTA114TS(10k)	Built in Resistor
D001-003	276 0616 907	Diode 1SS252	
D006	276 0553 905	Diode 1SR35-200A	
D261	276 0616 907	Diode 1SS252	

RESISTORS GROUP			
VR261	211 0858 001	Variable Resistor 100kohm	V1640V30F=104R(MG)
△R296	241 2387 940	Carbon 4.7ohm 1/4W	RD14B2E4R7JNBS

CAPACITORS GROUP			
C004	253 4536 925	Ceramic 12pF/50V	CC45SL1H120J
C007,008	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C011	254 3056 917	Electrolytic 1μF/50V	CE04D1H010MBP
C013	254 4260 906	Electrolytic 0.1μF/50V	CE04W1H0R1M
C014	253 1181 917	Ceramic 0.022μF/50V	CK45F1H223Z
C016	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
C017,018	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C019	254 4260 935	Electrolytic 0.47μF/50V	CE04W1HR47M
C020	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C021	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M
C022	253 1181 917	Ceramic 0.022μF/50V	CK45F1H223Z
C023	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
C024	256 1034 940	Metalizide 0.056μF/50V	CF93A1H563J
C025	254 4254 912	Electrolytic 22μF/16V	CE04W1C220M

Ref. No.	Part No.	Part Name	Remarks
C027	254 4254 912	Electrolytic 22μF/16V	CE04W1C220M
C028	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C029	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C033,034	253 4536 954	Ceramic 16pF/50V	CC45SL1H160J
C035	256 1034 937	Metalizide 0.047μF/50V	CF93A1H473J
C036,037	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C039	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C040	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C041	254 4254 938	Electrolytic 47μF/16V	CE04W1C470M
C042	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C043	254 4260 919	Electrolytic 0.22μF/50V	CE04W1HR22M
C044	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C045	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C046,047	254 4260 951	Electrolytic 2.2μF/50V	CE04W1H2R2M
C048	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C049	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C051	254 4260 951	Electrolytic 2.2μF/50V	CE04W1H2R2M
C052	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C053,054	253 4457 907	Ceramic 750pF/50V	CC45SL1H751J
C056,057	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C059,060	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C065	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C261-264	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C265	253 1179 987	Ceramic 470pF/50V	CK45B1H471K
C266	253 1179 961	Ceramic 330pF/50V	CK45B1H331K
C267,268	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C269,270	253 1181 917	Ceramic 0.022μF/50V	CK45F1H223Z
C271,272	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C273	253 1179 945	Ceramic 220pF/50V	CK45B1H221K
C274,275	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C276	254 3056 917	Electrolytic 1μF/50V	CE04D1H010MBP
C277	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C278	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C279	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C297,298	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M

OTHERS PARTS GROUP			
BL001	205 0973 004	3P ANT.Terminal	
CF001	261 0145 007	MW ANT-OSC Coil	
CF002	261 0146 006	Ceramic Filter	FMCFSK107M1-A
CF003	261 0031 001	Ceramic Filter	FMCFSK107M2-A
CF004	261 0079 005	Ceramic Filter	BFU450C4
CF005	261 0116 007	Ceramic Filter	CSB456F11
CN6A,6C	205 0970 065	6P TAC-L Socket	SFU450B3
CN7A,7B	205 0966 079	7P TXC Socket(X)	
CN9A	205 0966 095	9P TXC Socket(X)	
T003	231 1145 005	AM IFT	
T004	231 2099 008	FM DET Trans	
XT001	399 0075 003	Crystal (7.2MHZ)	

1U-2889B TUNER & VOLUME P.W.B. UNIT ASS'Y

for Asia model

Same as 1U-2889 except the followings)

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R022	241 2402 935	Carbon 39kohm 1/4W	Add
CAPACITORS GROUP			
C266	253 1180 934	Ceramic 1200PF/50V	Change

PRINTED WIRING BOARD

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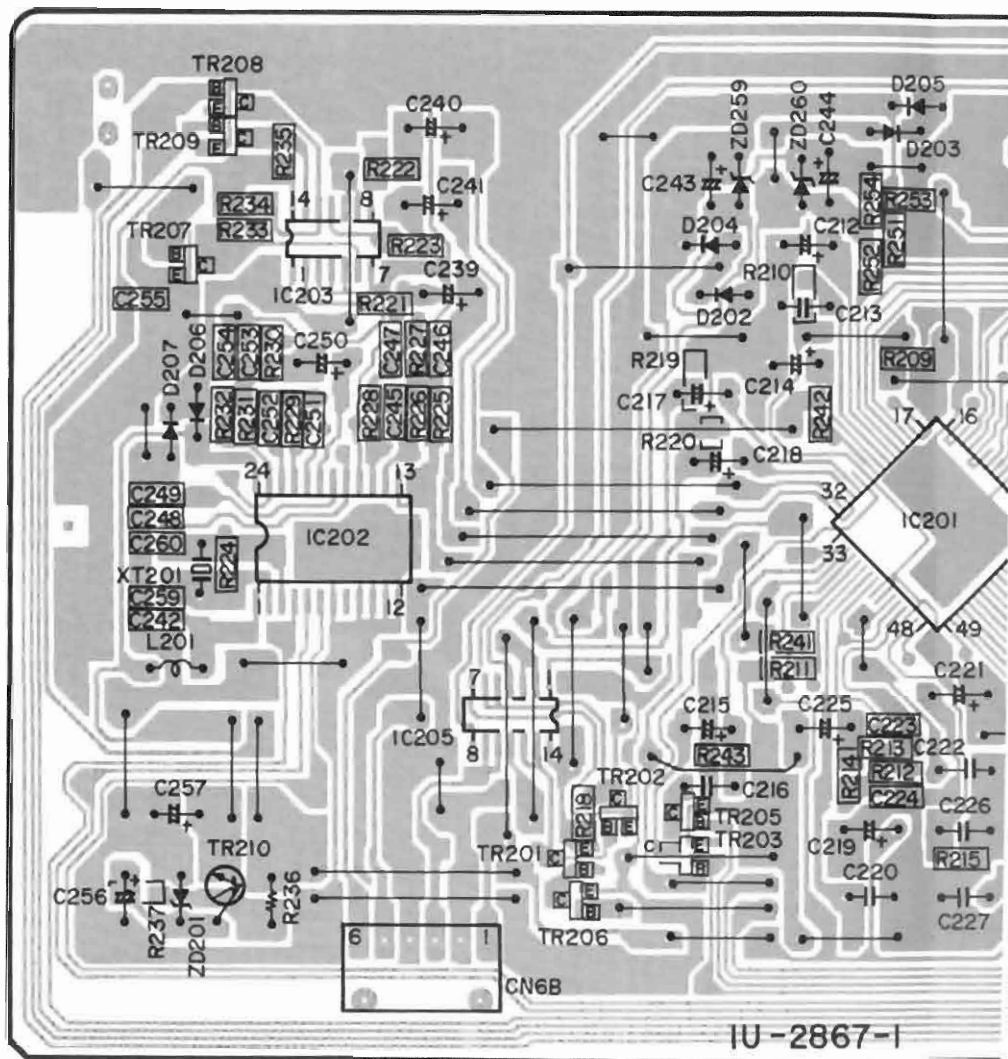
INPUT AND SURROUND P. W. B. ASS'Y

1U-2867E for U. S. A., Canada and Taiwan R.O.C. models

1U-2867G for Asia model

*	1U-2867E	1U-2867G
	U.S.A., Canada and Taiwan R.O.C.	Asia
IC101	○	○
J101	○ (JV)	○ (Resistor)
J102	○ (JV)	○ (Resistor)
C121	X	○
C122	X	○
C123	X	○
C124	X	○
C125	X	○
C126	X	○
C127	X	○
C128	X	○
C147	X	○
C148	X	○
C281	X	○
C282	X	○
LF101	X	○
LF102	X	○

Note: ○ : Used X : Not used



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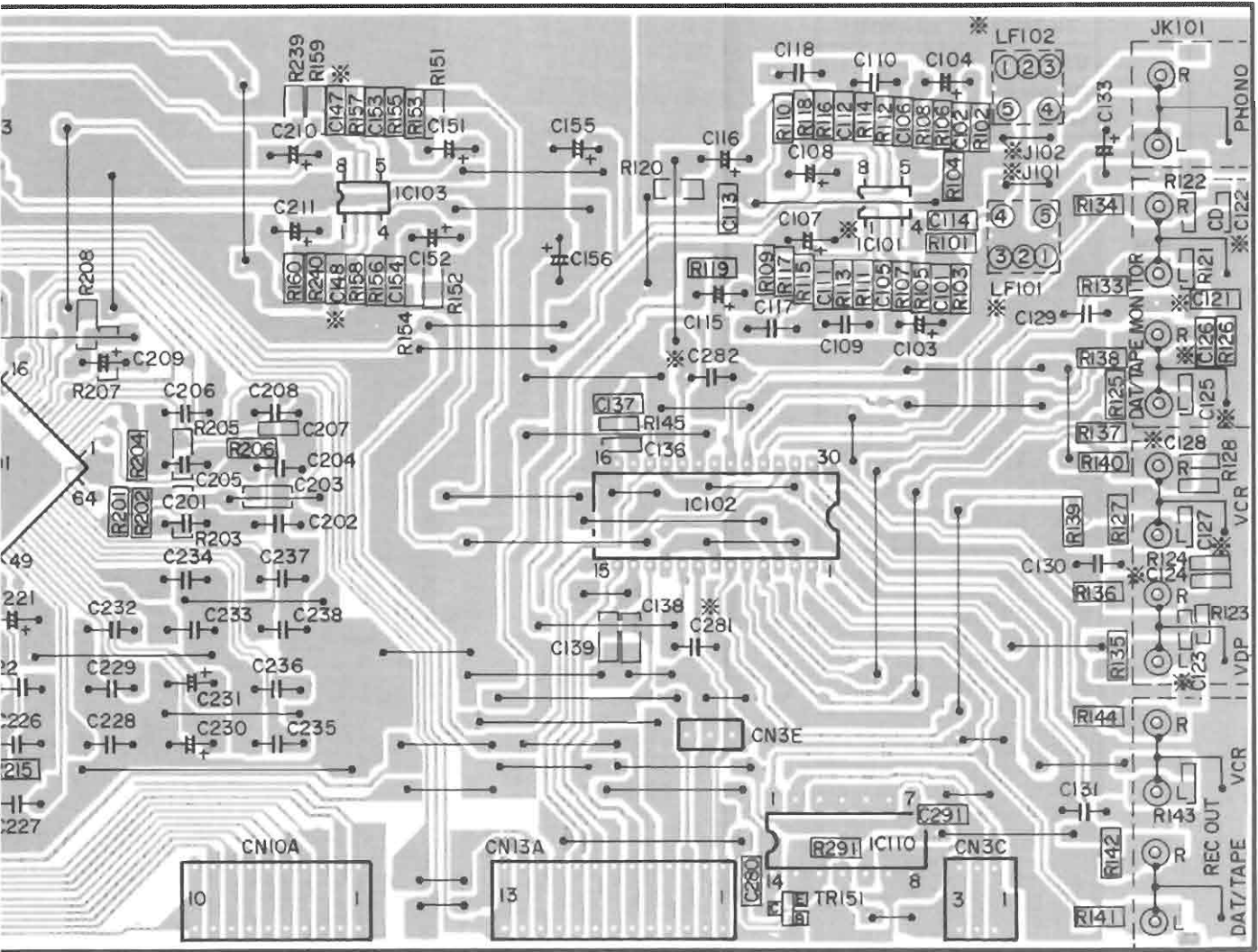
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MAIN AMP. P. W. B. UNIT ASS'Y

1U-2865E for U. S. A., Canada and Taiwan R.O.C. models

1U-2865G for Asia model

A

B

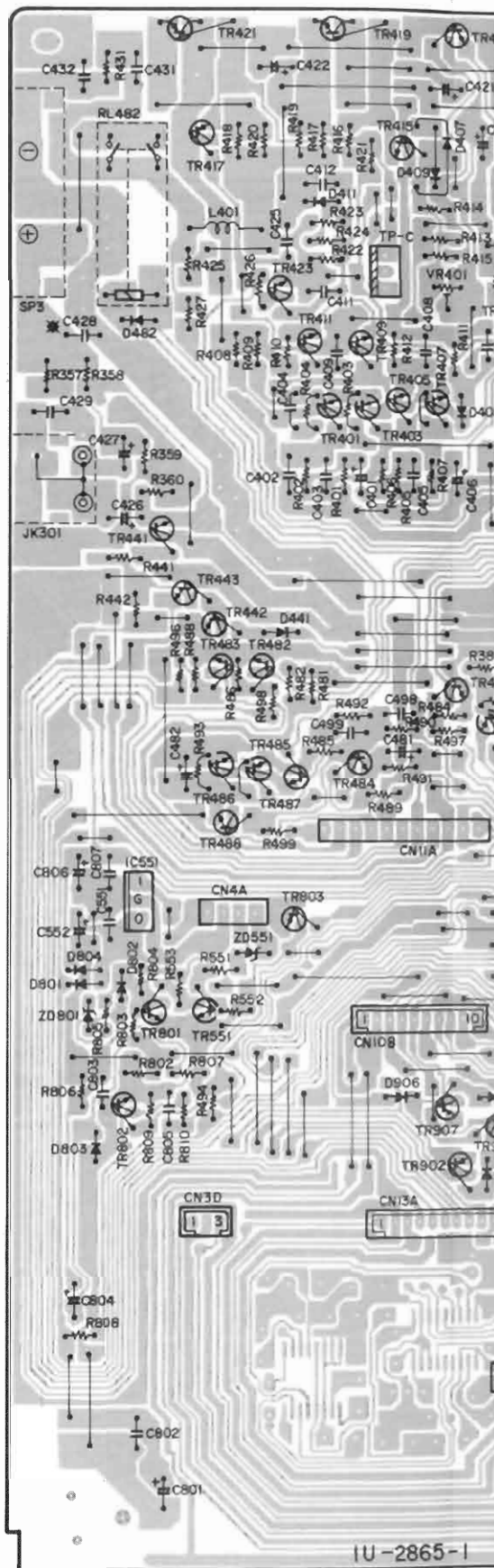
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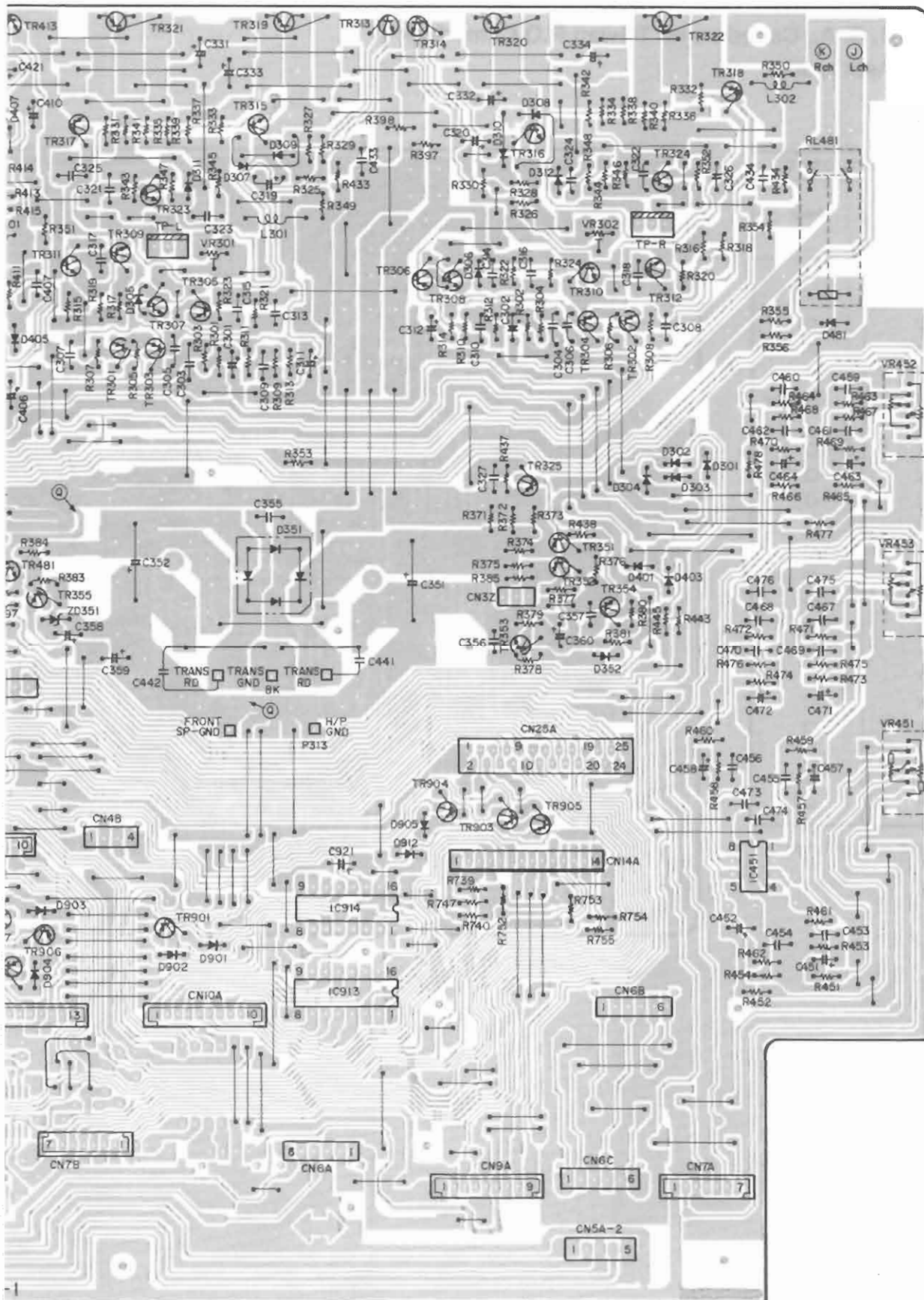
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E

*	1U-2865E	1U-2865G
	U.S.A., Canada and Taiwan R.O.C.	Asia
IC911	X	X
IC912	X	X
R035	X	X
C428	X	O
C911	X	X
C912	X	X
C913	X	X
C914	X	X
C915	X	X
C918	X	X
C919	X	X

Note: O : Used X : Not used





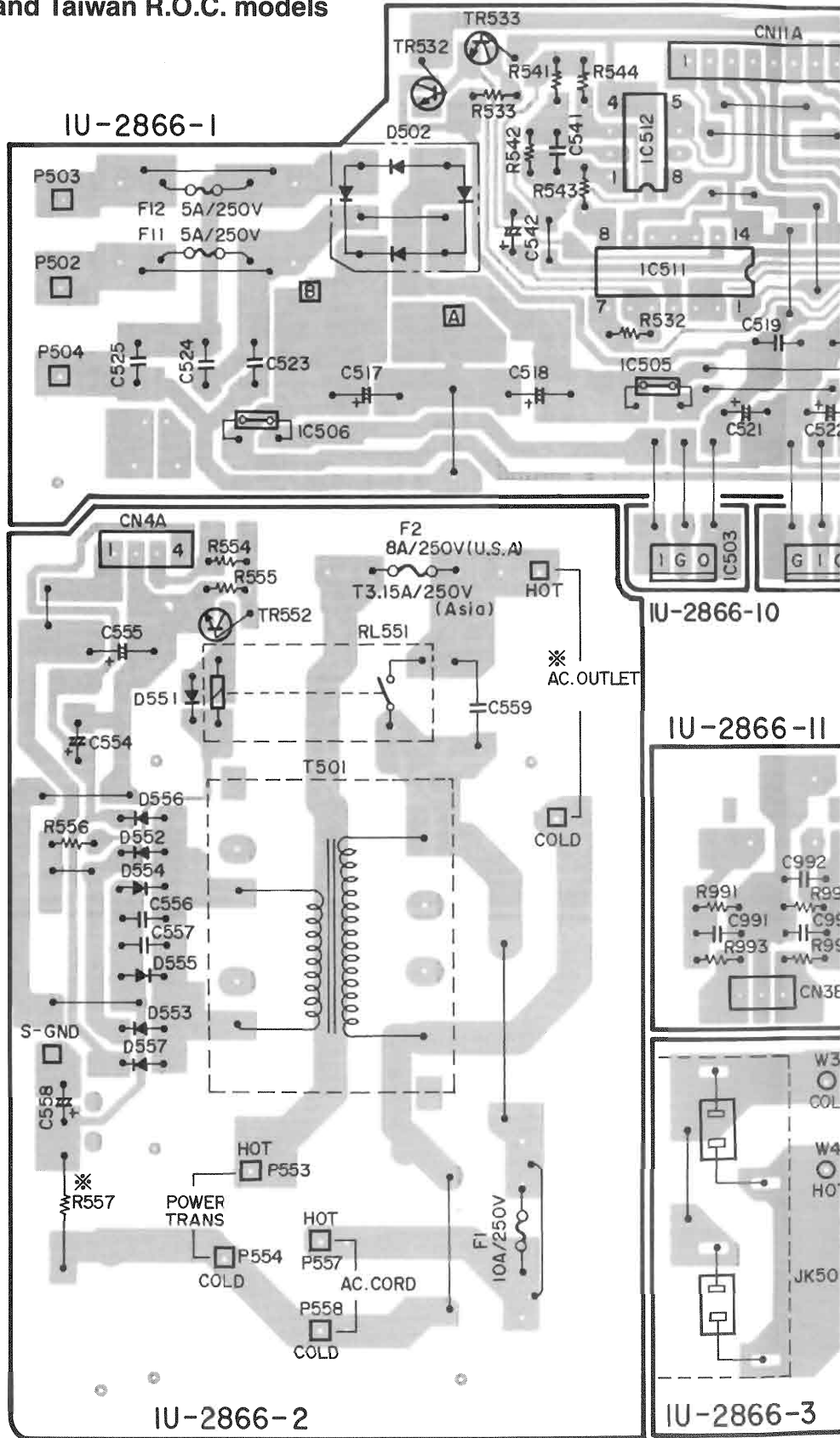
REAR AMP. P. W. B. UNIT ASS'Y

1U-2866E for U. S. A., Canada and Taiwan R.O.C. models

1U-2866G for Asia model

*	1U-2866E	1U-2866G
	U.S.A., Canada and Taiwan R.O.C.	Asia
R557	○	X
C361	X	○
C362	X	○
C363	X	○
C364	X	○
C531	X	○
C532	X	○
AC outlet	○	X
F001	○	X
F011	○	X
F012	○	X

Note: ○ : Used X : Not used



5 6 7 8

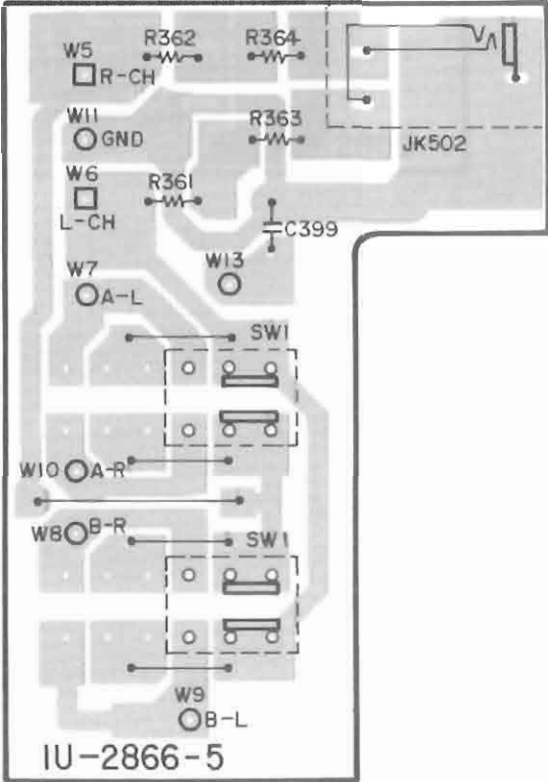
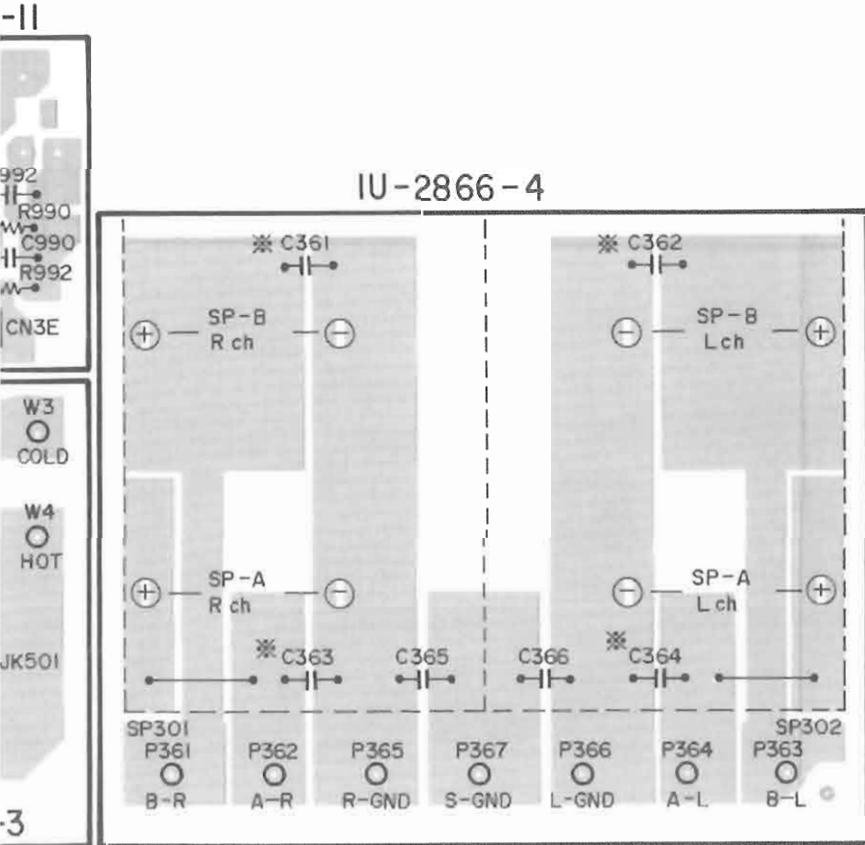
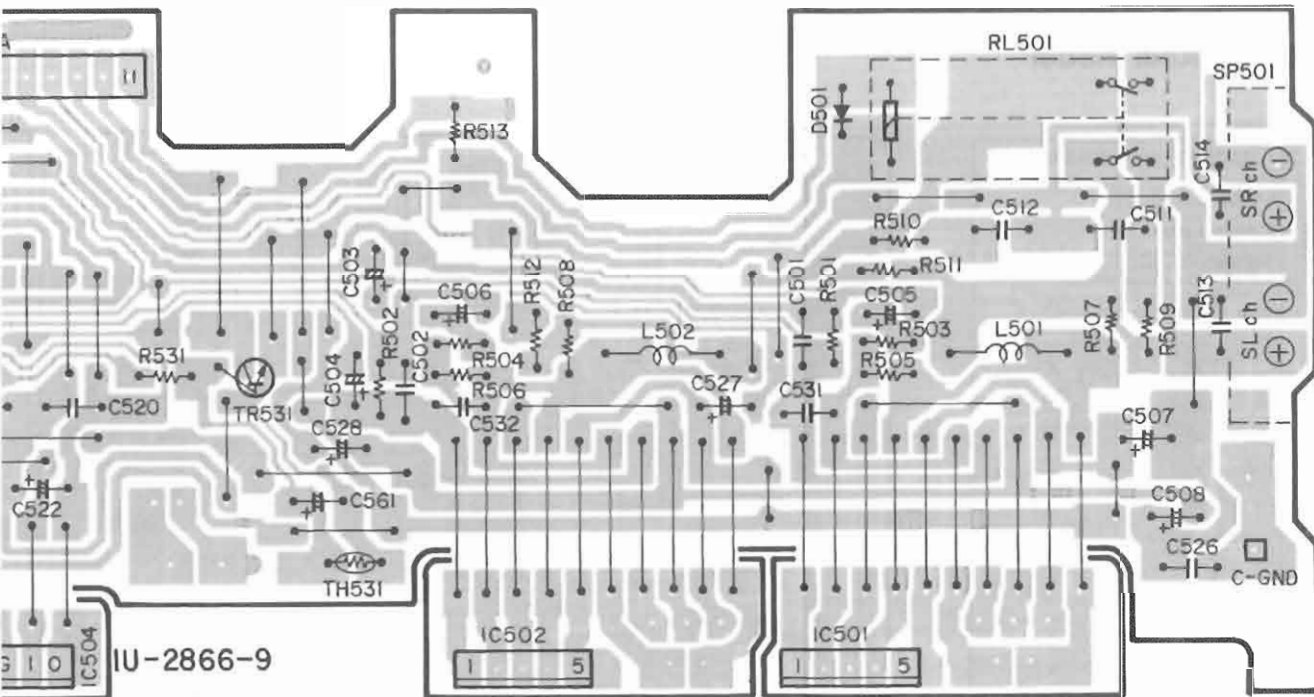
A

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1 2 3 4

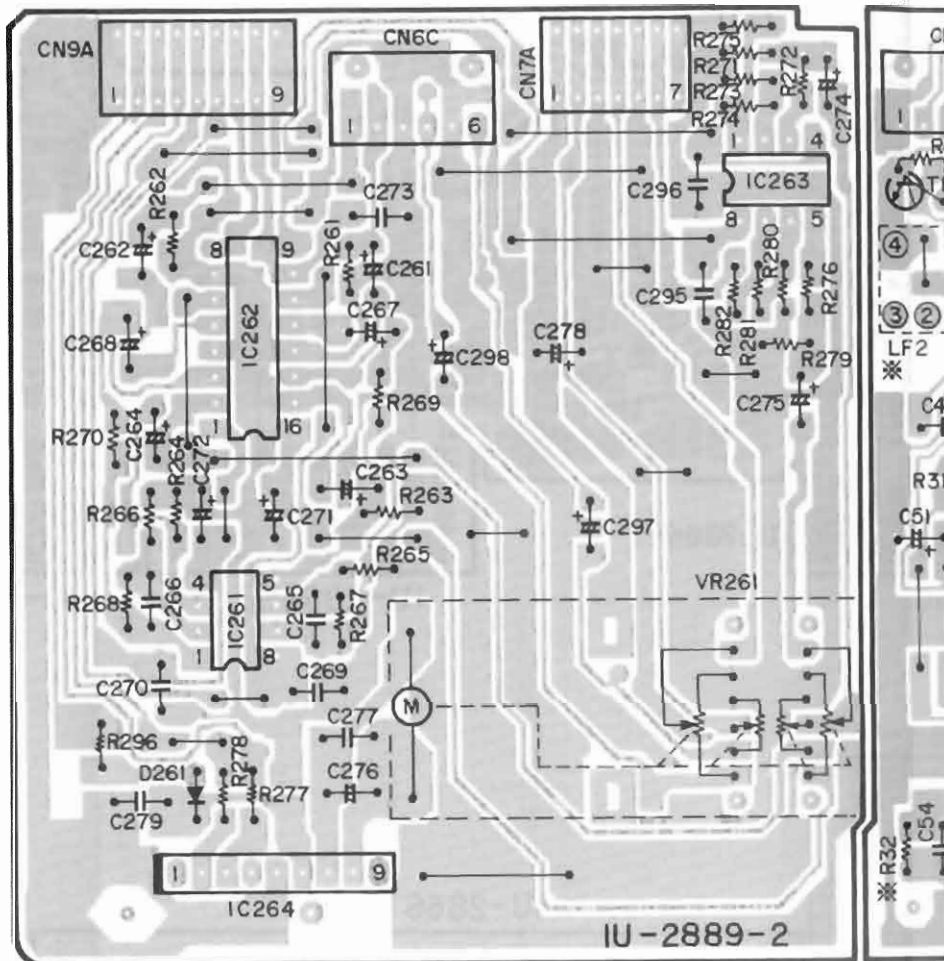
TUNER AND VOLUME P. W. B. UNIT ASS'Y
1U-2889 for U. S. A., Canada and Taiwan R.O.C. models
1U-2889B for Asia model

A

*	1U-2889	1U-2889B
	U.S.A. , Canada and Taiwan R.O.C.	Asia
TR001	X	X
R004	X	X
R022	O	O
R023	X	X
R032	X	X
R035	X	X
C055	X	X
LF001	X	X
LF002	X	X
LF003	X	X

Note: O : Used X : Not used

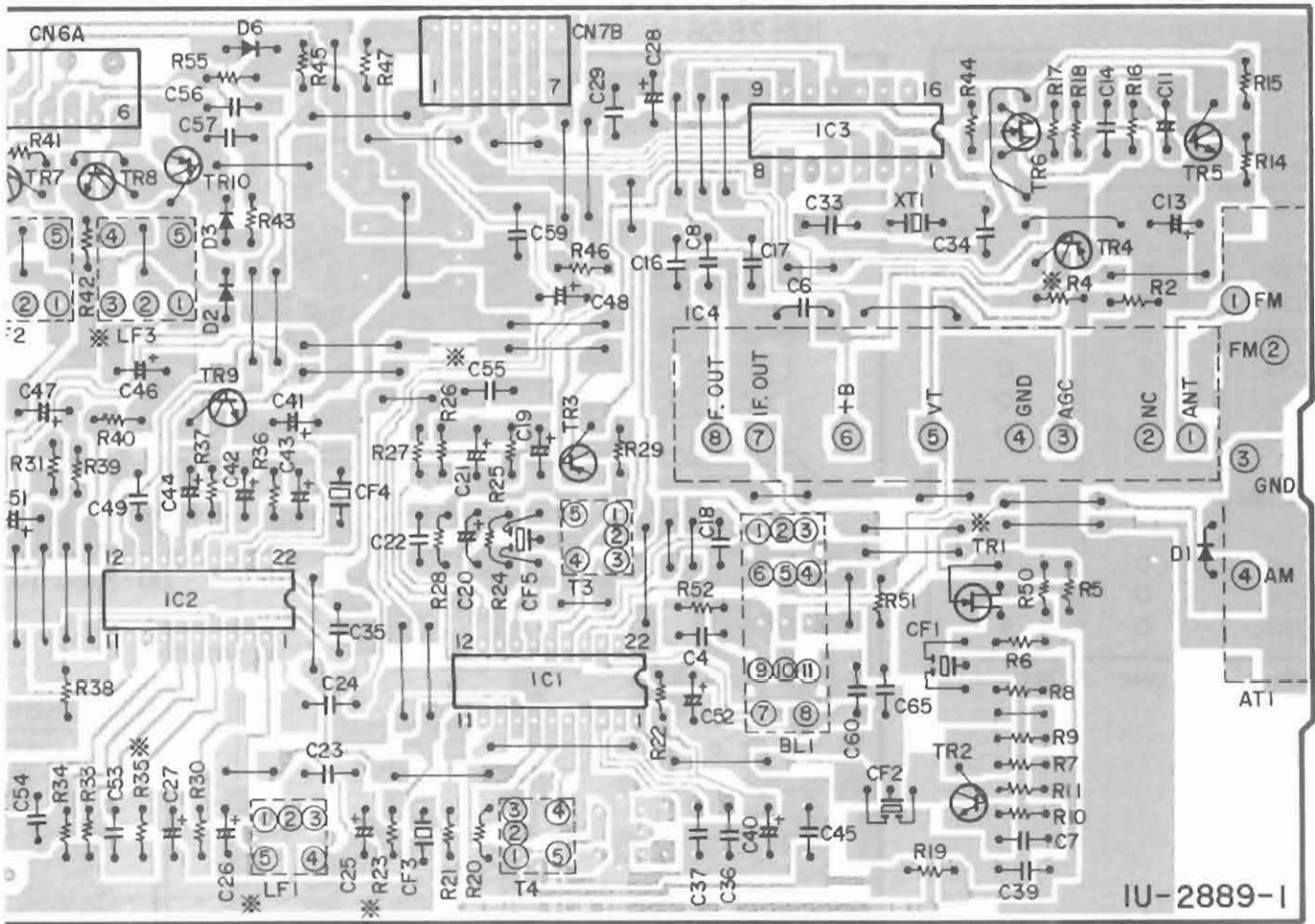
B



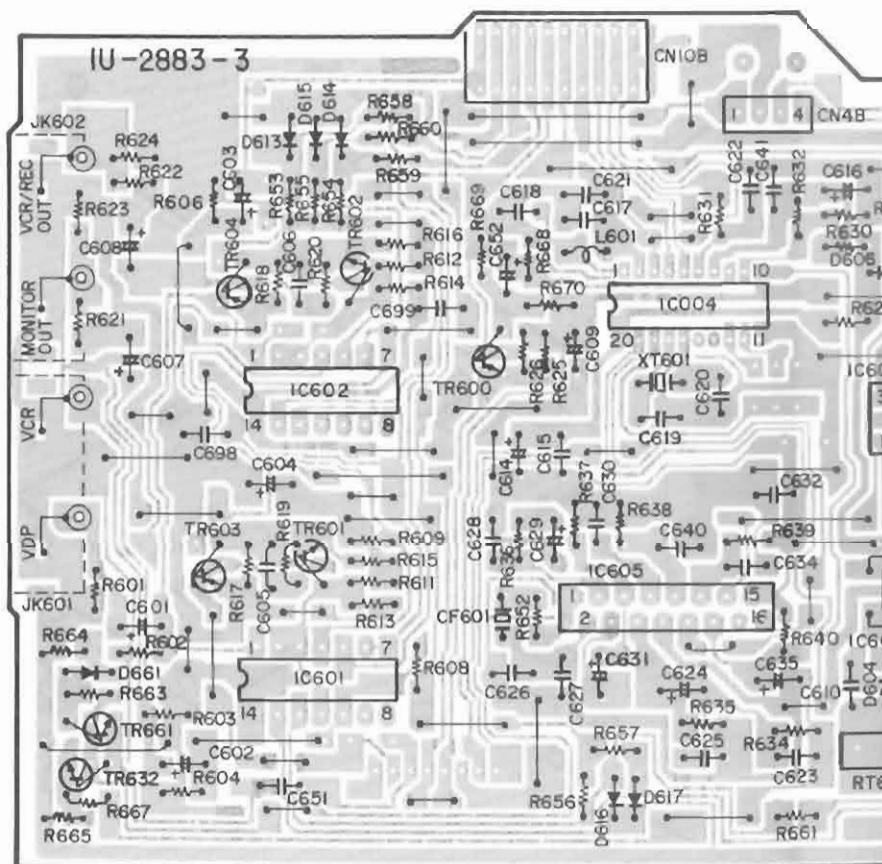
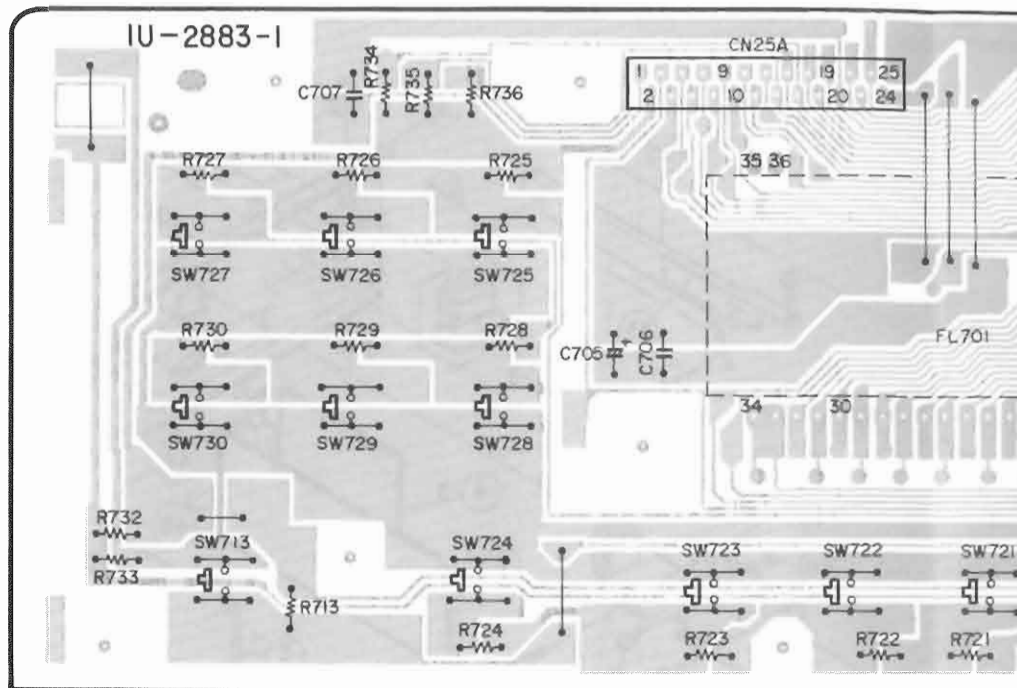
C

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E



1U-2883 FLD VIDEO P.W.B UNIT ASS'Y



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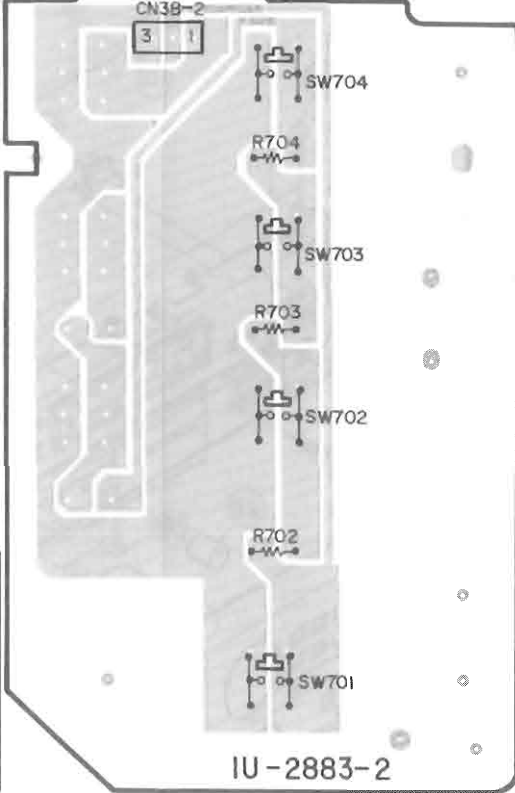
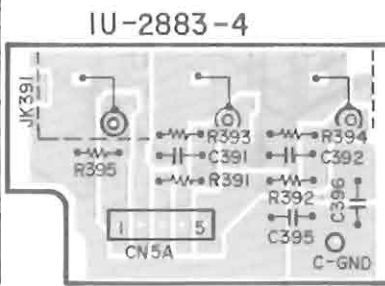
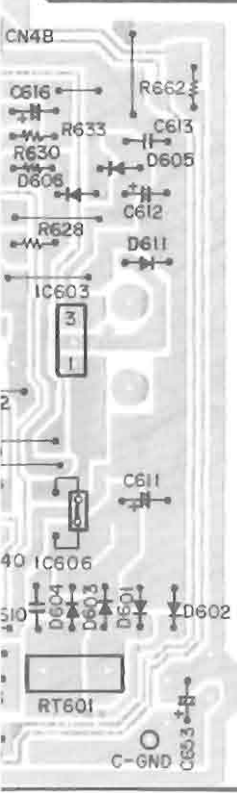
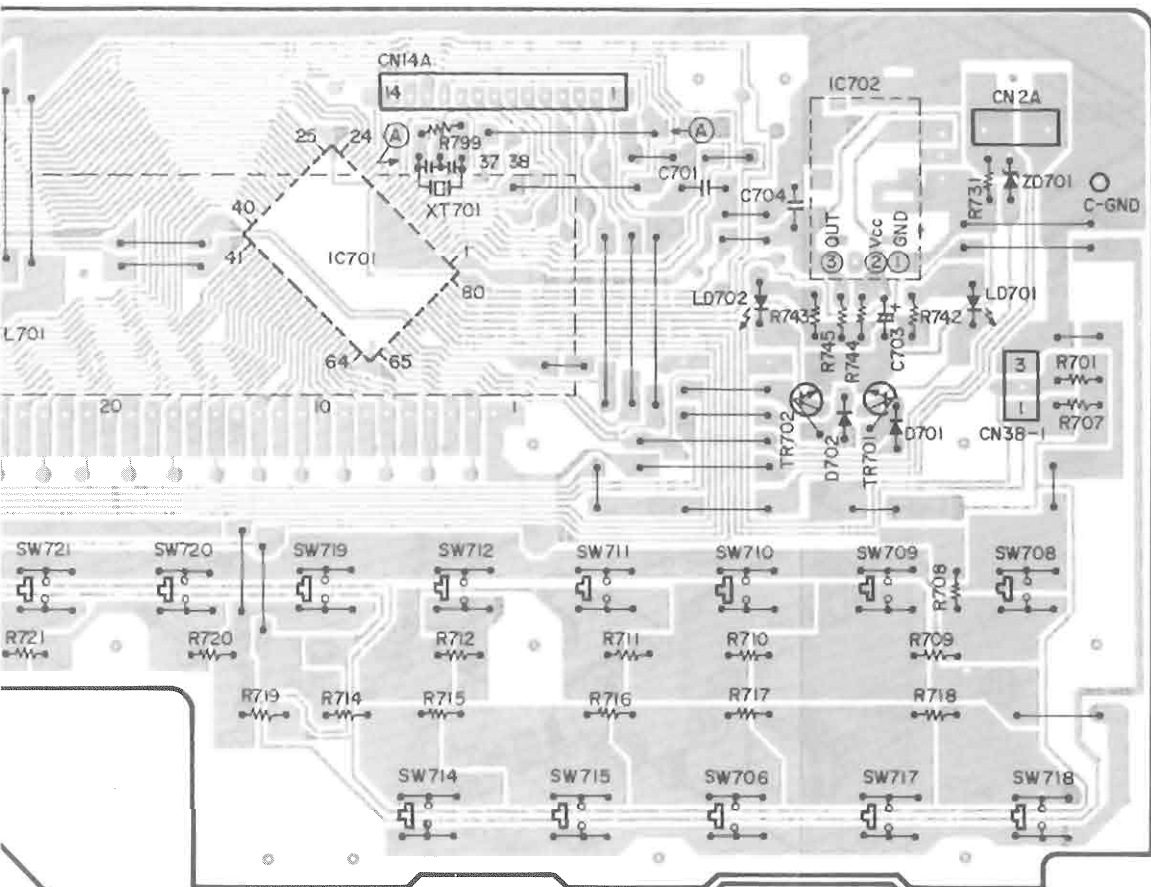
A

B

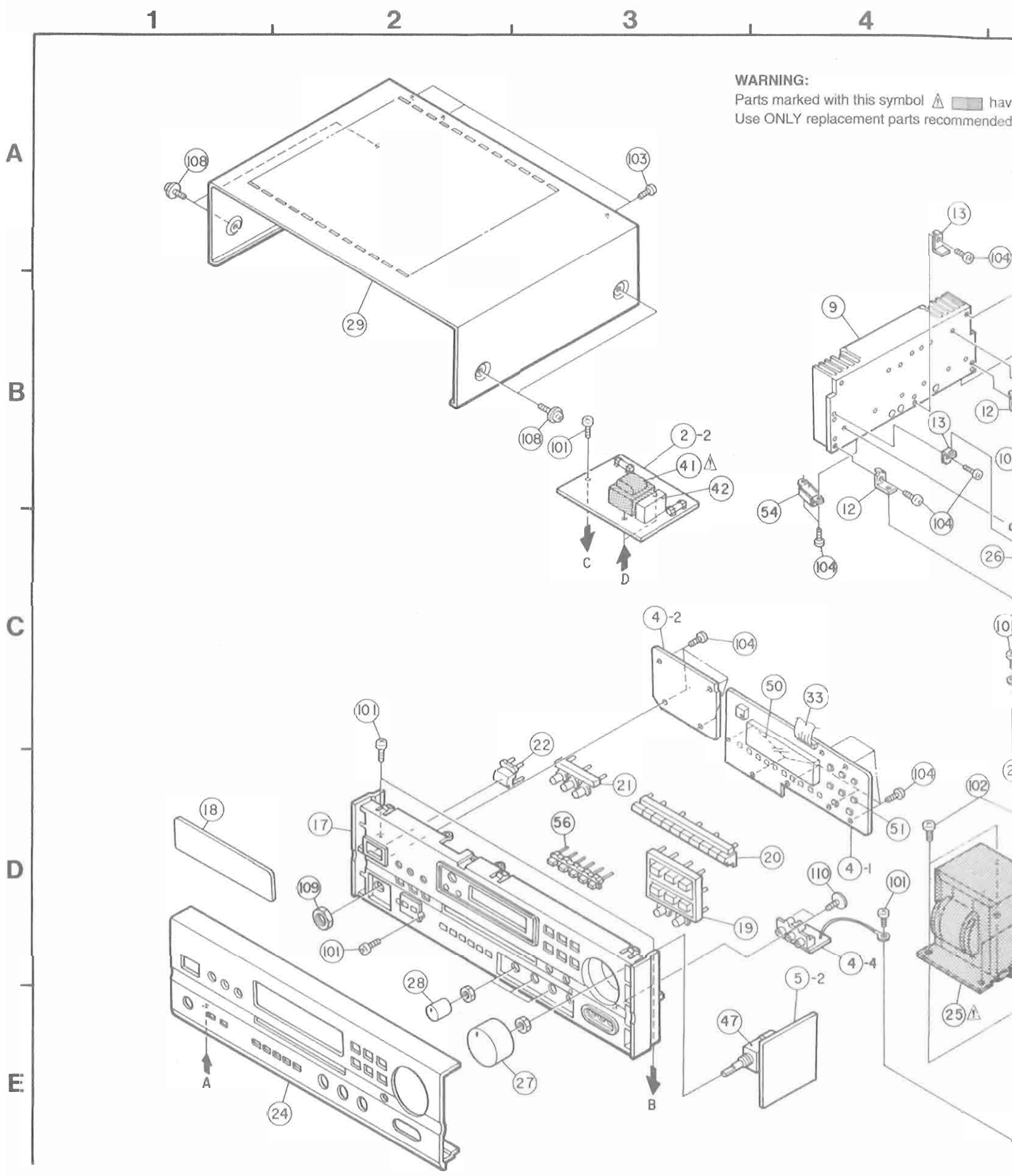
C

D

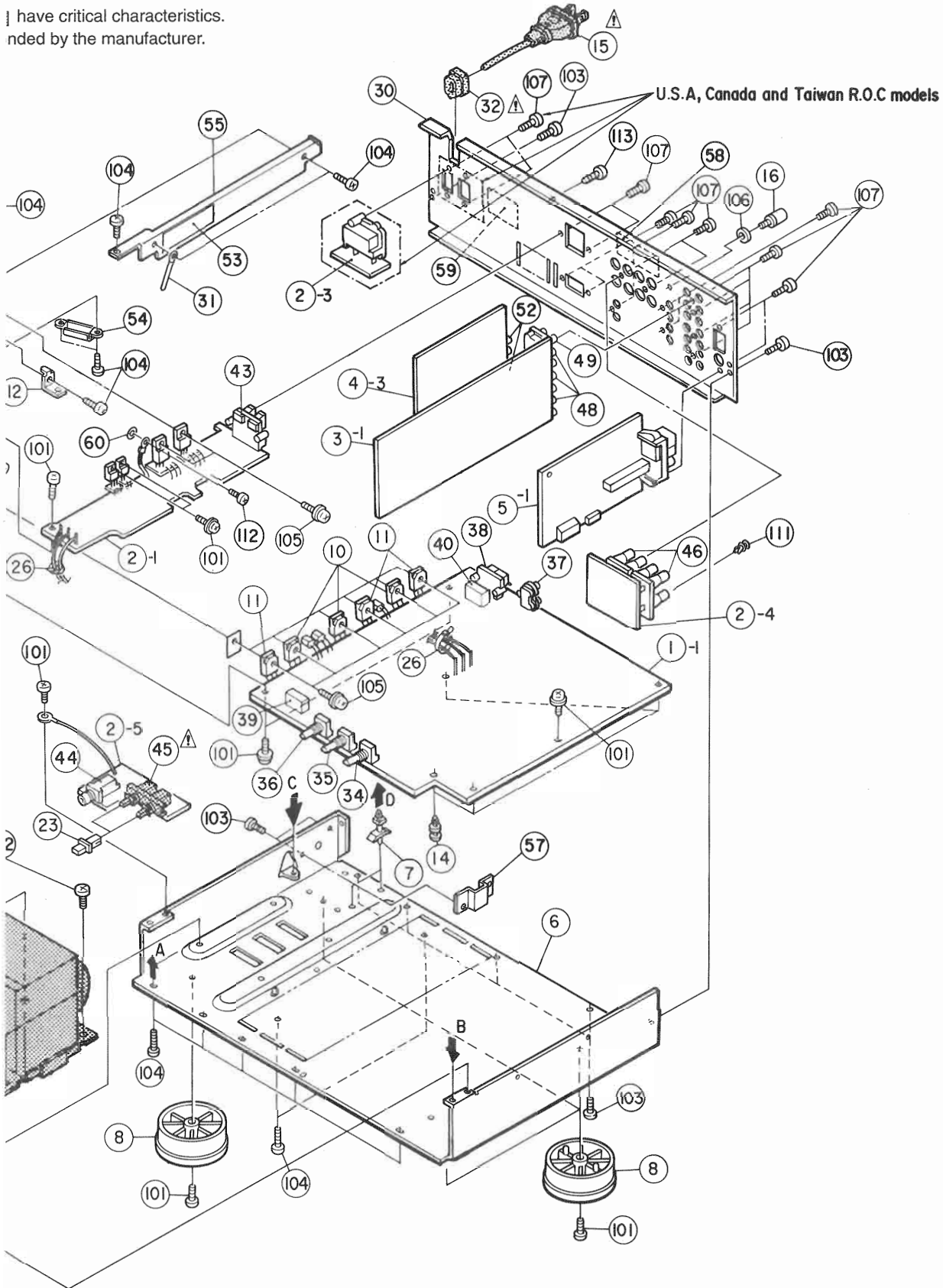
E



EXPLODED VIEW



have critical characteristics.
ned by the manufacturer.



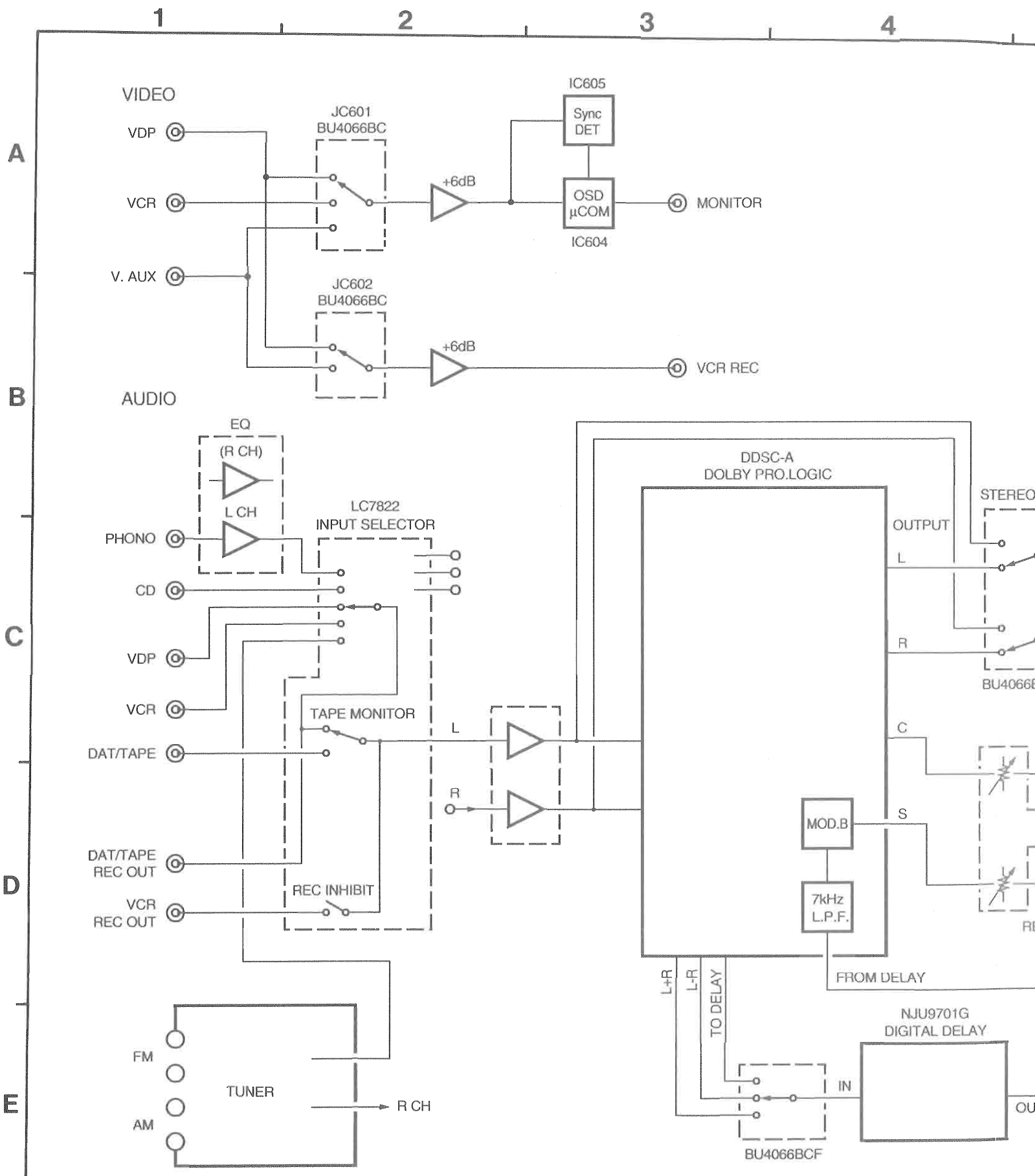
PARTS LIST OF EXPLODED VIEW

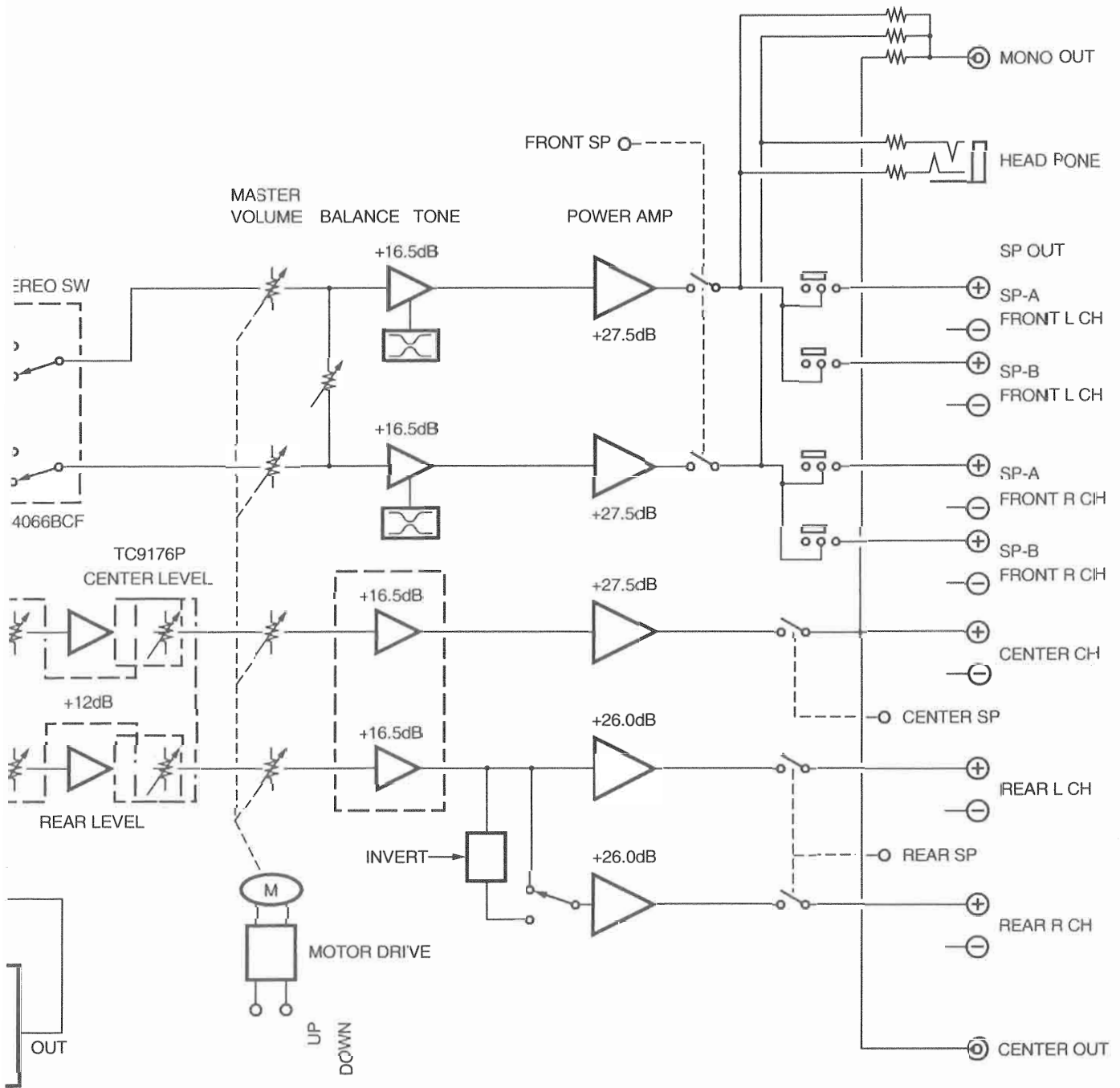
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
● 1	1U-2865 E	Main Amp. P.W.B. Unit Ass'y	U.A.S., Canada and Taiwan R.O.C. models	1	● 29	102 0565 003	Top Cover		1
1	1U-2865 G	Main Amp. P.W.B. Unit Ass'y	Asia model	1	30	105 1167 108	Back Panel	U.A.S., Canada and Taiwan R.O.C. models	1
1-1	—	Main Amp. P.W.B. Unit			30	105 1167 111	Back Panel	Asia model	1
● 2	1U-2866 E	Rear Amp. P.W.B. Unit Ass'y	U.A.S., Canada and Taiwan R.O.C. models	1	31	445 0048 016	Cord Holder (L50)		1
2	1U-2866 G	Rear Amp. P.W.B. Unit Ass'y	Asia model	1	△ 32	445 0056 008	Cord Bush		1
2-1	—	Rear Amp. P.W.B. Unit			33	009 0105 012	25P FFC Cable		1
2-2	—	Power Supply P.W.B. Unit			34	211 0798 103	Variable Resistor 100kohm	VR451	1
2-3	—	AC Outlets P.W.B. Unit	U.A.S., Canada and Taiwan R.O.C. models		35	211 0797 117	Variable Resistor 30kohm	VR452	1
2-4	—	Front SP. P.W.B. Unit			36	211 0797 133	Variable Resistor 10kohm	VR453	1
2-5	—	H/P and SP. P.W.B. Unit			37	204 8509 011	2P Pin Jack (C-GND)	JK301	1
● 3	1U-2867 E	Input and Surround P.W.B. Unit Ass'y	U.A.S., Canada and Taiwan R.O.C. models	1	38	205 0971 006	2P Push Terminal	SP003	1
3	1U-2867 G	Input and Surround P.W.B. Unit Ass'y	Asia model	1	39	214 0129 001	Relay (DH2TU)	RL481	1
3-1	—	Input and Surround P.W.B. Unit			40	214 0187 001	Relay (DH24D2-OS(M)-2)	RL482	1
● 4	1U-2883 E	FLD and Video P.W.B. Unit Ass'y	U.A.S., Canada and Taiwan R.O.C. models	1	△ 41	233 6072 000	Power Trans (mini)		1
4	1U-2883 G	FLD and Video P.W.B. Unit Ass'y	Asia model	1	△ 42	214 0188 000	Relay (VS-12MBNR-SM2)(TV-8)	RL551	1
4-1	—	FLD P.W.B. Unit			43	205 0972 005	4P Push Terminal	SP501	1
4-2	—	Tact S.W P.W.B. Unit			44	204 8503 004	:Headphone Jack	JK502	1
4-3	—	Video P.W.B. Unit			△ 45	212 4778 009	2P Push Switch	SW001	1
4-4	—	Video AUX P.W.B. Unit			46	205 0952 009	4P Speaker Terminal	SP301,302	2
● 5	1U-2889	Tuner and Volume P.W.B. Unit Ass'y	U.A.S., Canada and Taiwan R.O.C. models	1	47	211 0858 001	Variable Resistor 100kohm	VR261	1
5	1U-2889 B	Tuner and Volume P.W.B. Unit Ass'y	Asia model	1	48	204 8497 000	4P Pin Jack (GND)(K)	JK101-103	3
5-1	—	Tuner P.W.B. Unit			49	204 8509 008	2P Pin Jack (C-GND)	JK104	1
5-2	—	Volume P.W.B. Unit			50	393 4155 002	FLD (FIP14AM7R)	FL701	1
● 6	411 1334 108	Main Chassis		1	51	212 4788 002	Tact Switch	SW701-704,708-713 719-730	22
● 7	443 0518 016	P.W.B. Holder		2	52	204 8468 000	2P Pin Jack	JK601,602	2
8	104 0282 007	*Foot Ass'y		4	53	513 2506 008	Fuse Caution Label	U.A.S., Canada and Taiwan R.O.C models	1
9	417 0527 008	*Power Radiator		1	54	412 4055 005	Radiator Support		2
10	273 0389 002	2SC3855(O/P/Y)(Z)		3	55	412 4056 004	Radiator Bracket		1
11	271 0240 006	2SA1491(O/P/Y)(Z)		3	56	113 1760 001	Tact Knob (13x5)-5		1
● 12	412 4000 005	*P.W.B. Bracket(A)		2	57	412 2955 107	Side Bracket	Asia model	1
● 13	412 3766 007	*L Bracket		2	58	513 2511 006	Fuse Caution Label	U.A.S., Canada and Taiwan R.O.C models	1
14	412 2814 002	Card Spacer (L=8)		4	59	513 2469 022	Fuse Caution Label	U.A.S., Canada and Taiwan R.O.C models	1
△ 15	206 2050 009	:AC Cord with Plug	U.A.S., Canada and Taiwan R.O.C. models	1	60	415 0505 008	F.S. Washer		1
△ 15	206 2063 009	:AC Cord with Plug	Asia model	1	★ 513 2236 006	Label (China)	U.A.S., Canada and Taiwan R.O.C models	1	
16	205 0071 016	Terminal Ass'y		1	★ 513 2377 004	CUL Label (1270)	U.A.S., Canada and Taiwan R.O.C models	1	
● 17	146 1574 103	Inner Panel		1	★ 513 2433 003	Serial No. Sheet		1	
● 18	143 0942 009	Window		1	★ 513 2493 085	Rating Label	Asia model	1	
19	113 1753 005	Tact Knob (A)		1	SCREWS				
20	113 1692 001	*Function Knob		1	101	473 7002 018	Screw 3x8 (S)		15
21	113 1743 002	Tact Knob (3 Key)		1	102	473 7004 016	Screw 4x6 (S)		4
22	113 1636 106	*Push Knob (P)		1	103	473 7015 005	Screw 3x6		13
23	113 1558 006	Push Knob (KAKU)		1	104	473 7500 044	Screw 3x8 (P) BK		26
● 24	144 2451 025	Front Panel		1	105	473 8007 009	Screw 3x12 Cup		8
△ 25	233 6186 007	Power Trans	U.A.S., Canada and Taiwan R.O.C. models	1	106	477 0018 001	Washer(P-87)		1
△ 25	233 6187 006	Power Trans	Asia model	1	107	477 0064 107	Fixing Screw		17
26	445 8004 007	Wire Clamper		5	108	477 0263 005	3P Swelling Screw		4
27	112 0761 008	*Volume Knob		1	109	475 6124 003	12 Nut		1
28	112 0762 007	*Knob (MARU)		3	110	477 0263 006	Special Screw		2
					111	477 0096 007	Push Rivet	Asia model	8
					112	473 7006 027	Screw 3x10 (S)		1
					113	473 7003 017	Screw 3x8 (S) BK		1

PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty
	504 0092 086	Stylen Paper	(700×600×T1)	1
	505 0075 006	Cabinet Cover	(750×350)	1
	503 1190 007	Cushion		2
	505 8006 019	Envelope		1
	511 2817 008	Instructions Manual		1
	515 0671 229	S.S. List		1
	399 0292 019	Remoto Control Unit	RC802	1
	231 0922 009	AM Lope Antenne		1
	395 0023 008	:FM Antenne Ass'y		1
	501 1887 026	Carton Case		1
	517 0109 030	UPC Label	U.A.S., Canada and Taiwan R.O.C. models	1
	513 1389 006	Control Card Base		1
	513 1349 004	Thermal Carbon Film		1
	515 0690 006	DEL Warranty Home	U.A.S., Canada and Taiwan R.O.C. models	1
	394 0038 003	Battery (GER6M)		2
	513 2446 003	China Label (E)	U.A.S., Canada and Taiwan R.O.C. models	1
	513 2447 002	China Label (F)	U.A.S., Canada and Taiwan R.O.C. models	1

BLOCK DIAGRAM





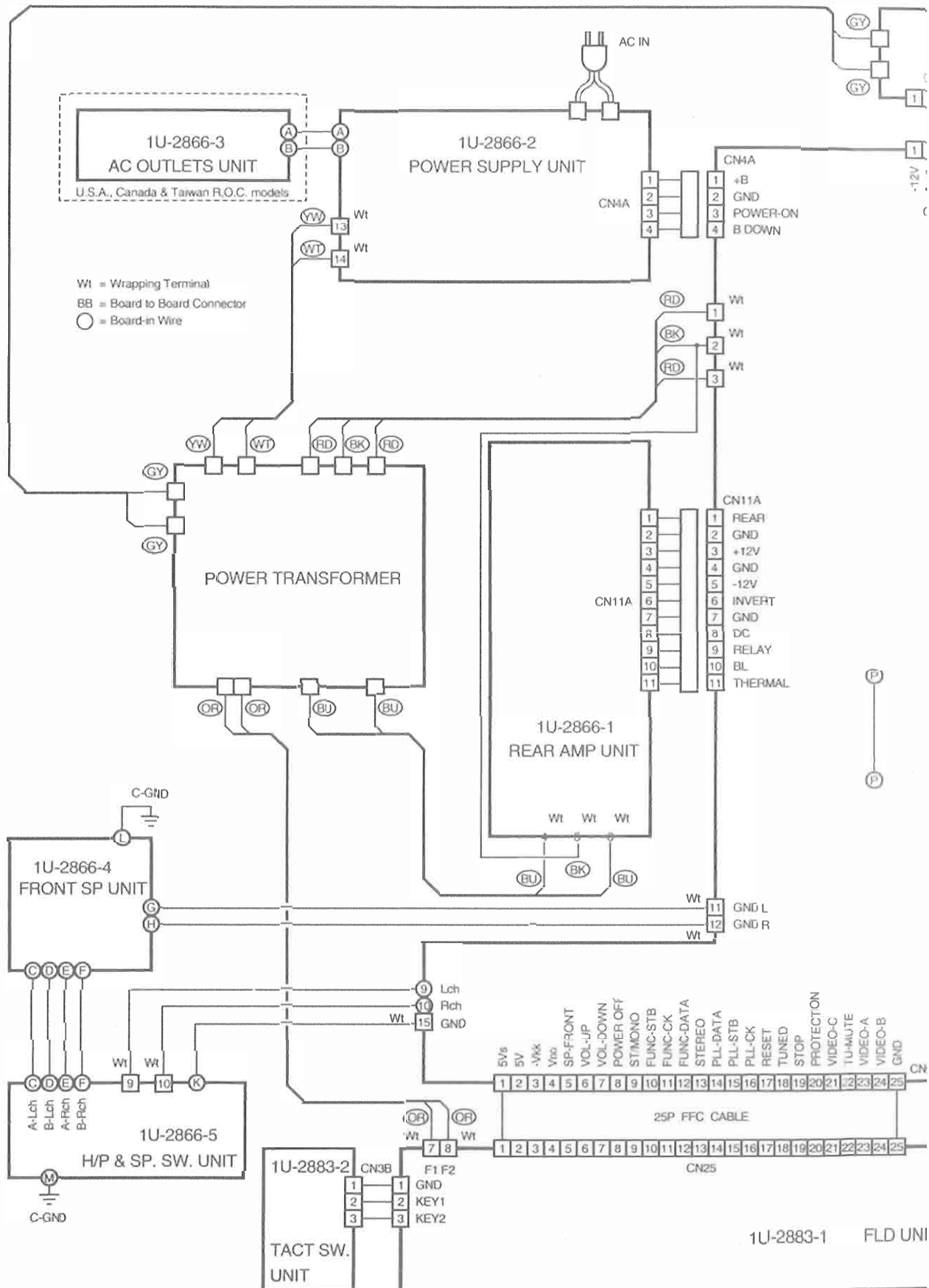
WIRING DIAGRAM

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1U-2883-3
VIDEO UNIT

1U-2867-1
INPUT & SURROUND UNIT

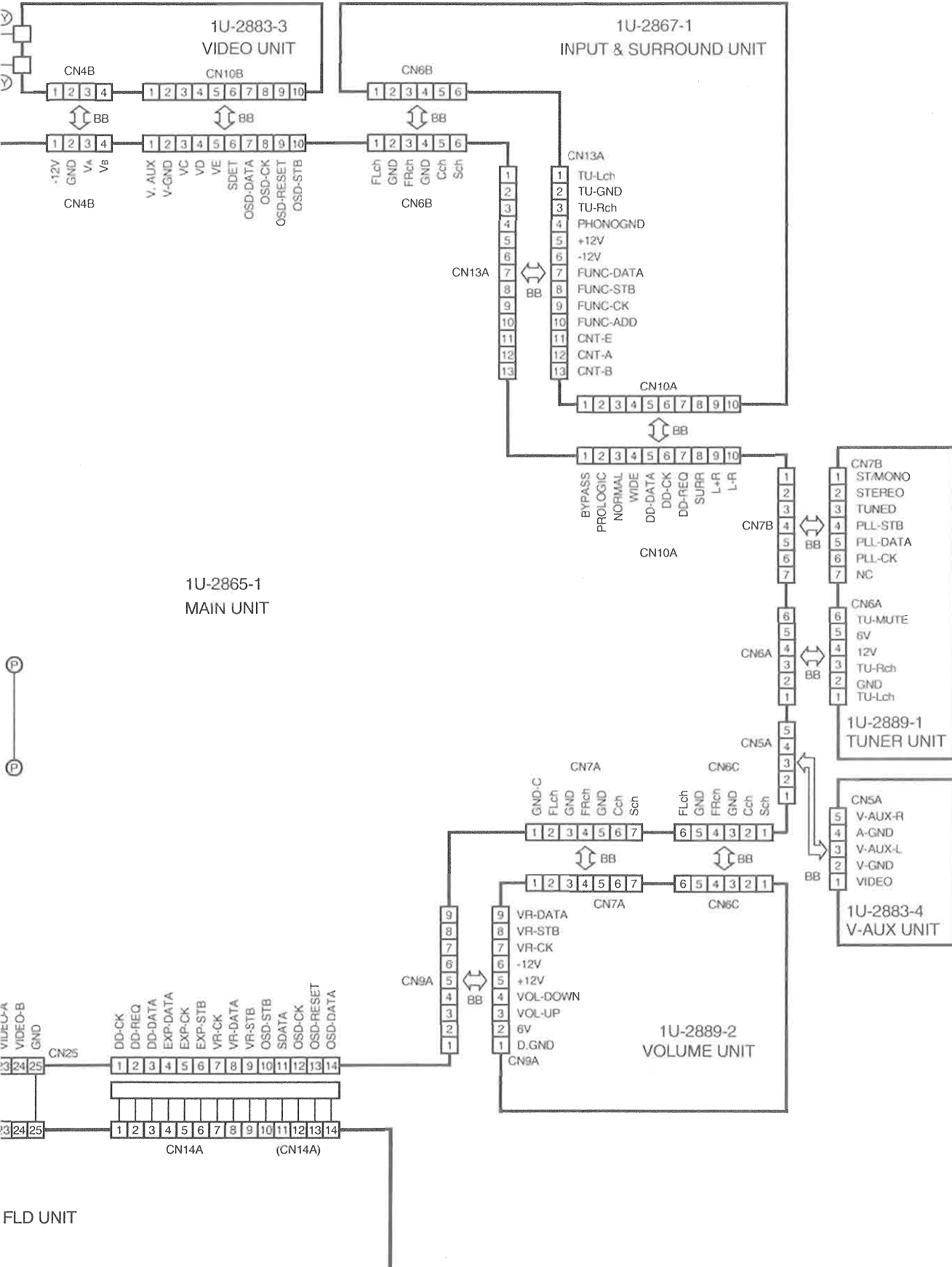
1U-2865-1
MAIN UNIT

1U-2889-1
TUNER UNIT

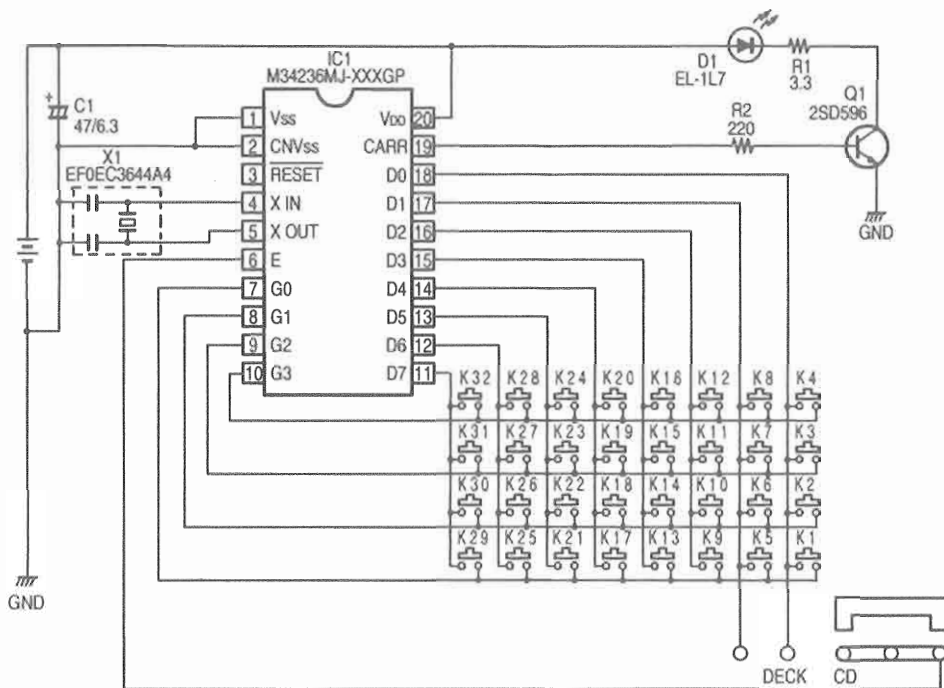
1U-2883-4
V-AUX UNIT

1U-2889-2
VOLUME UNIT

FLD UNIT



REMOTE CONTROL UNIT (RC-802)



RC-195 Transmitting Code Table

CD

KEY No.	Function	Classification	System address					Data code					Extension		Mask	Judge
			C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12		
1	POWER ON/OFF	AV. AMP	0	1	0	0	0	1	0	0	0	0	1	1	0	0
2	DISK SKIP+	CD	0	0	0	1	0	1	1	0	1	0	1	0	0	
3	STOP ■	CD	0	0	0	1	0	0	1	1	1	0	1	0	0	
4	PLAY ►	CD	0	0	0	1	0	0	0	1	1	1	0	1	0	
5	AUTO SEARCH◀◀	CD	0	0	0	1	0	1	0	0	1	1	0	1	0	
6	PAUSE	CD	0	0	0	1	0	1	0	1	1	1	0	1	0	
7	AUTO SEARCH▶▶	CD	0	0	0	1	0	0	0	0	1	1	0	1	0	
8	PRESET. DOWN	TUNER	0	0	1	1	0	1	0	1	0	1	0	1	0	
9	PRESET CH. UP	TUNER	0	0	1	1	0	0	1	1	0	1	0	1	0	
10	CD	AV. AMP	0	1	0	0	0	0	0	1	0	0	0	1	0	
11	PHONO	AV. AMP	0	1	0	0	0	1	1	0	0	0	1	1	0	
12	SHIFT	TUNER	0	0	1	1	0	1	0	1	1	0	0	1	0	
13	TUNER	AV. AMP	0	1	0	0	0	1	0	1	0	0	1	1	0	
14	VCR	AV. AMP	0	1	0	0	0	1	0	1	1	0	0	1	0	
15	VDP/DBS	AV. AMP	0	1	0	0	0	0	1	0	1	0	0	1	0	
16	STEREO	AV. AMP	0	1	0	0	0	1	1	1	0	0	1	1	0	
17	SURR. MODE	AV. AMP	0	1	0	0	0	0	1	1	0	0	1	1	0	
18	V. AUX/GAME	AV. AMP	0	1	0	0	0	0	0	1	1	0	0	1	0	
19	DAT/TAPE MONITOR	AV. AMP	0	1	0	0	0	0	1	0	0	1	0	1	0	
20	T. TONE	AV. AMP	0	1	0	0	0	0	1	0	1	0	1	1	0	
21	DELAY+	AV. AMP	0	1	0	0	0	1	0	0	1	0	1	1	0	
22	MUTING	AV. AMP	0	1	0	0	0	0	0	0	0	1	1	1	0	
23	SCREEN	AV. AMP	0	1	0	0	0	1	1	1	1	1	0	1	0	
24	PANEL	AV. AMP	0	1	0	0	0	0	1	1	1	1	0	1	0	
25	CENTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	1	0	1	1	1	0	
26	CENTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	1	0	1	1	1	0	
27	REAR VOLUME UP	AV. AMP	0	1	0	0	0	1	1	0	0	1	1	1	0	
28	REAR VOLUME DOWN	AV. AMP	0	1	0	0	0	0	0	1	0	1	1	1	0	
29	MASTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	0	0	1	1	1	0	
30	MASTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	0	0	1	1	1	0	

DECK

KEY No.	Function	Classification	System address					Data code						Extension		Mask	Judge
			C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	K
1	POWER ON/OFF	AV. AMP	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0
2	PLAY ◀	DECK	0	0	1	0	0	1	1	1	0	1	0	1	0	0	0
3	STOP ■	DECK	0	0	1	0	0	0	1	1	1	1	0	1	0	0	0
4	PLAY ▶	DECK	0	0	1	0	0	0	0	1	1	1	0	1	0	0	0
5	REW ◀◀	DECK	0	0	1	0	0	1	1	0	1	1	0	1	0	0	0
6	A/B	DECK	0	0	1	0	0	1	1	0	0	1	0	1	0	0	0
7	FF ▶▶	DECK	0	0	1	0	0	0	1	0	1	1	0	1	0	0	0
8	PRESET CH. DOWN	TUNER	0	0	1	1	0	1	0	1	0	1	0	1	1	0	0
9	PRESET CH. UP	TUNER	0	0	1	1	0	0	1	1	0	1	0	1	1	0	0
10	CD	AV. AMP	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0
11	PHONO	AV. AMP	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0
12	SHIFT	TUNER	0	0	1	1	0	1	0	1	1	0	0	1	1	0	0
13	TUNER	AV. AMP	0	1	0	0	0	1	0	1	0	0	0	1	1	0	0
14	VCR	AV. AMP	0	1	0	0	0	1	0	1	1	0	0	1	1	0	0
15	VDP/DBS	AV. AMP	0	1	0	0	0	0	1	0	1	0	0	1	1	0	0
16	STEREO	AV. AMP	0	1	0	0	0	1	1	1	0	0	1	1	1	0	0
17	SURR. MODE	AV. AMP	0	1	0	0	0	0	1	1	0	0	1	1	1	0	0
18	V. AUX/GAME	AV. AMP	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0
19	DAT/TAPE MONITOR	AV. AMP	0	1	0	0	0	0	1	0	0	1	0	1	1	0	0
20	T. TONE	AV. AMP	0	1	0	0	0	0	1	0	1	0	1	1	1	0	0
21	DELAY+	AV. AMP	0	1	0	0	0	1	0	0	1	0	1	1	1	0	0
22	MUTING	AV. AMP	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0
23	SCREEN	AV. AMP	0	1	0	0	0	1	1	1	1	1	0	1	1	0	0
24	PANEL	AV. AMP	0	1	0	0	0	0	1	1	1	1	0	1	1	0	0
25	CENTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	1	0	1	1	1	1	0	0
26	CENTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	1	0	1	1	1	1	0	0
27	REAR VOLUME UP	AV. AMP	0	1	0	0	0	1	1	0	0	1	1	1	1	0	0
28	REAR VOLUME DOWN	AV. AMP	0	1	0	0	0	0	0	1	0	1	1	1	1	0	0
29	MASTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	0	0	1	1	1	1	0	0
30	MASTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	0	0	1	1	1	1	0	0

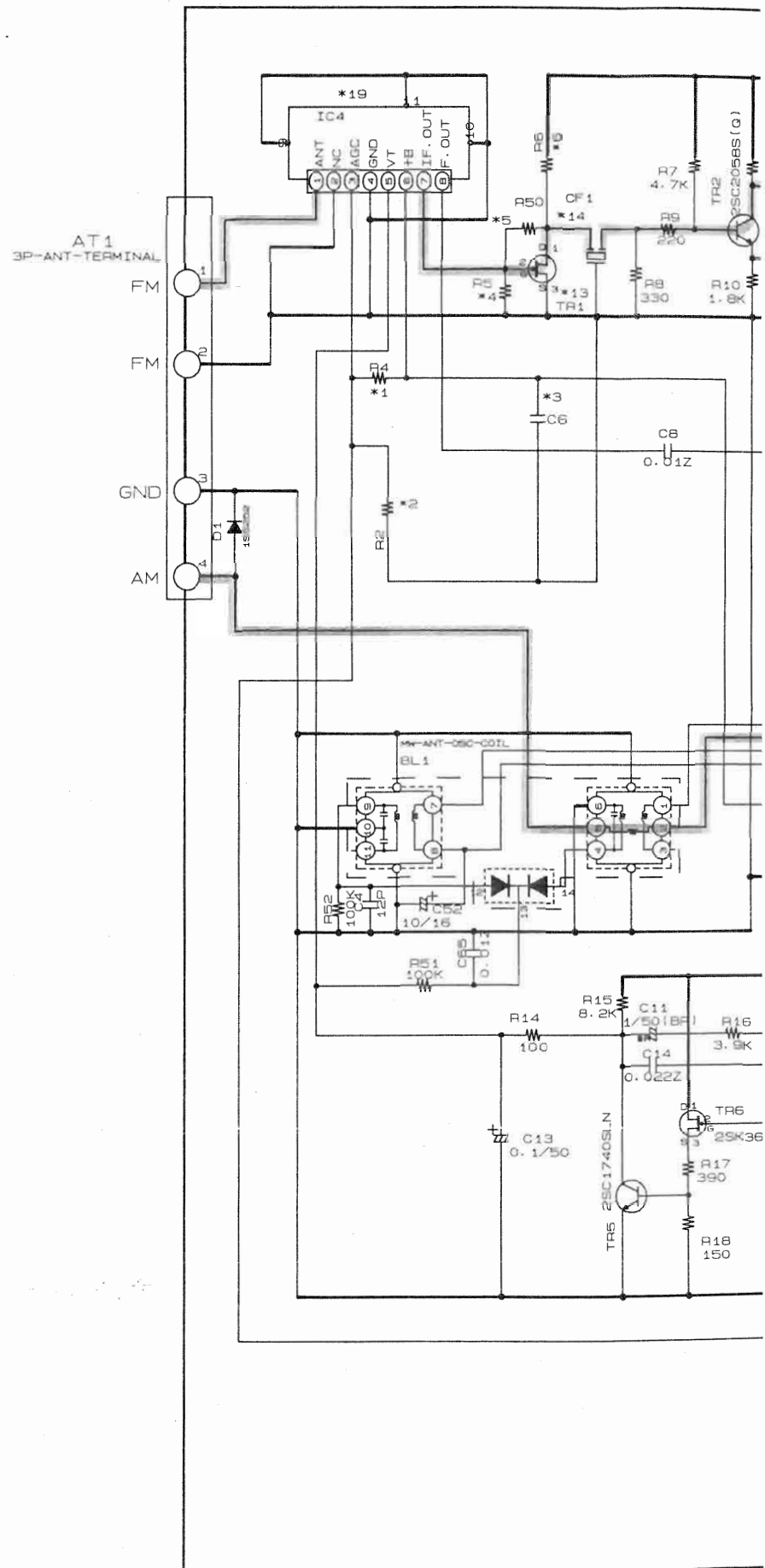
SCHEMATIC DIAGRAM

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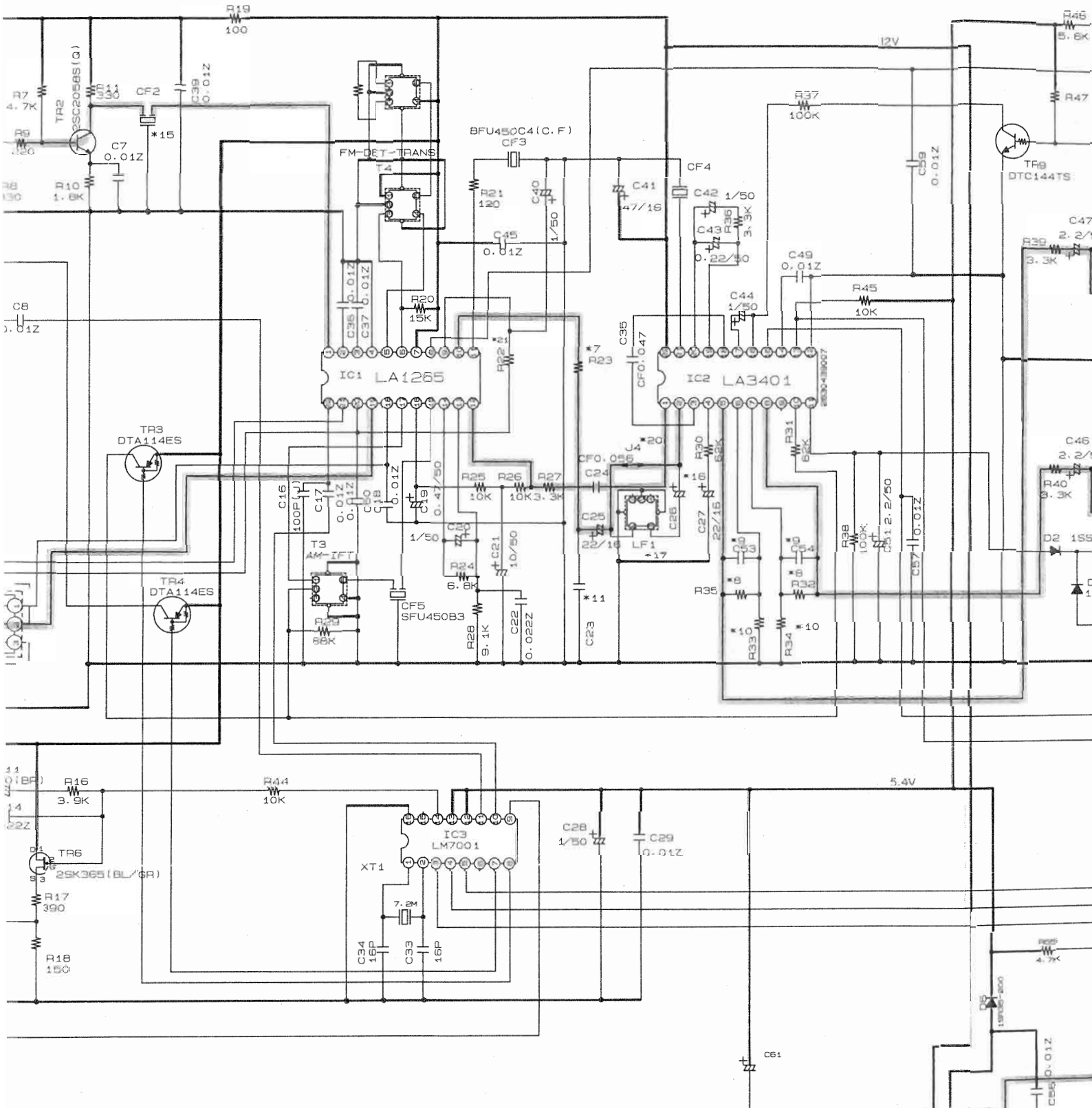


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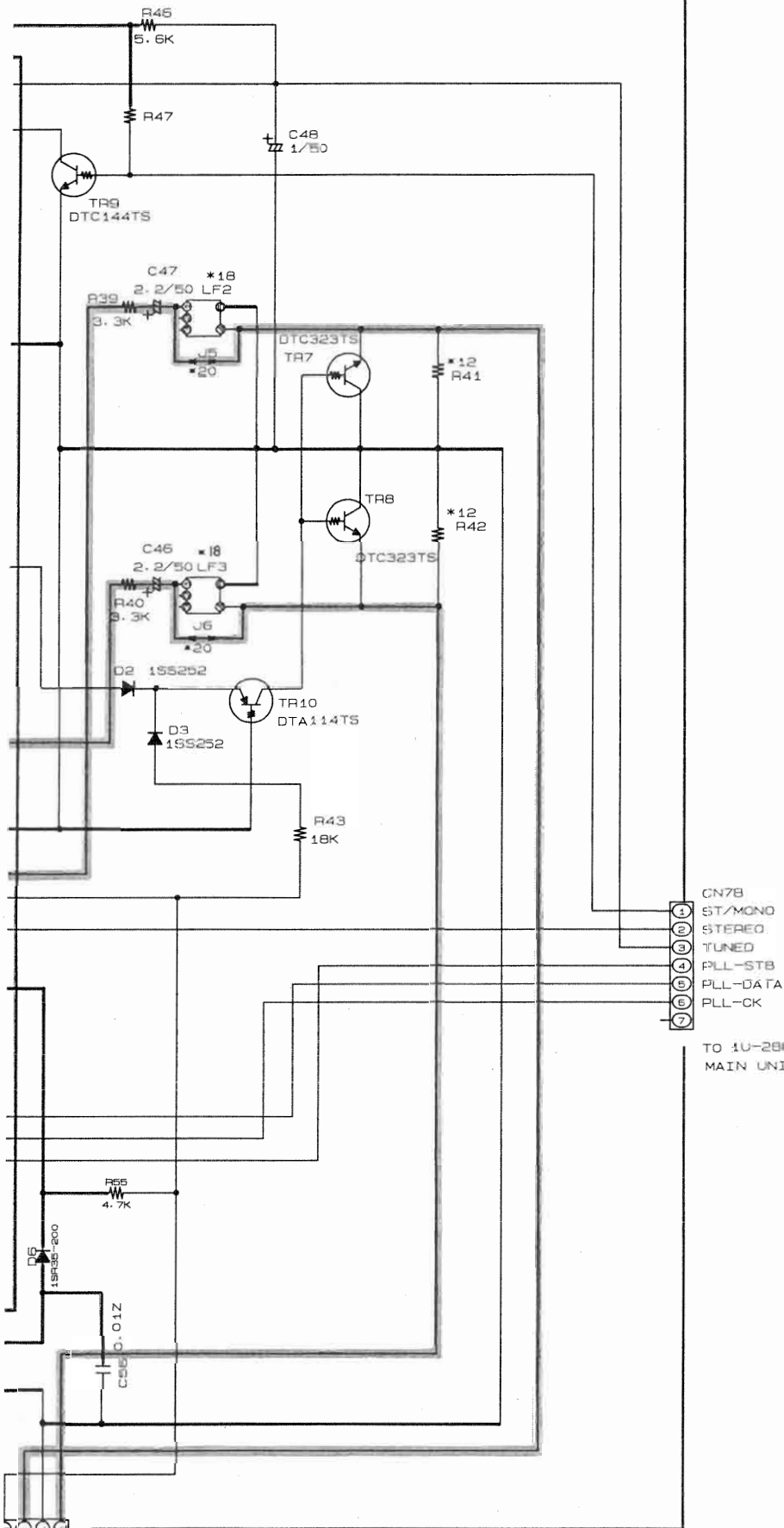
1U-2889-1 TUNER UNIT

(a) (b) (c) (d) (e)

9

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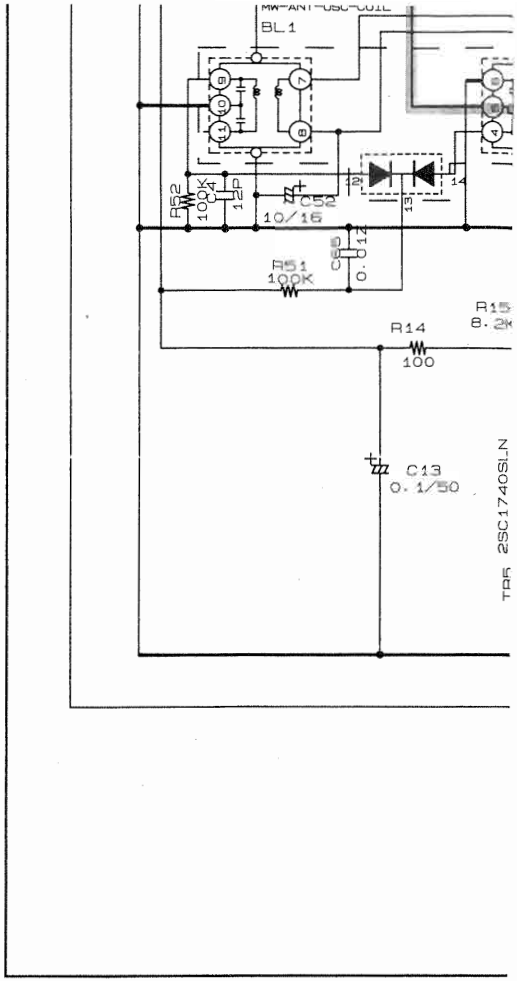
A

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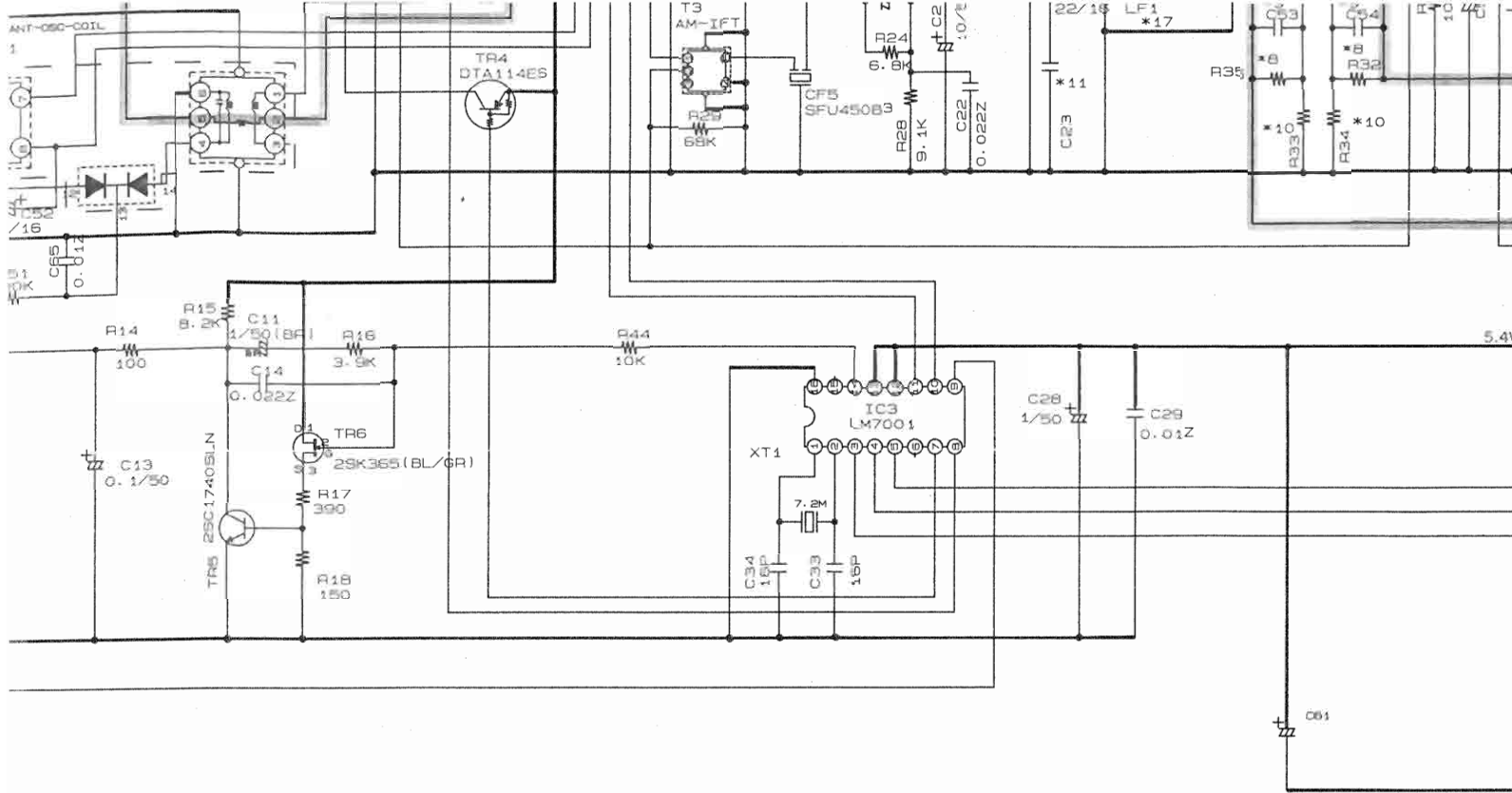
C

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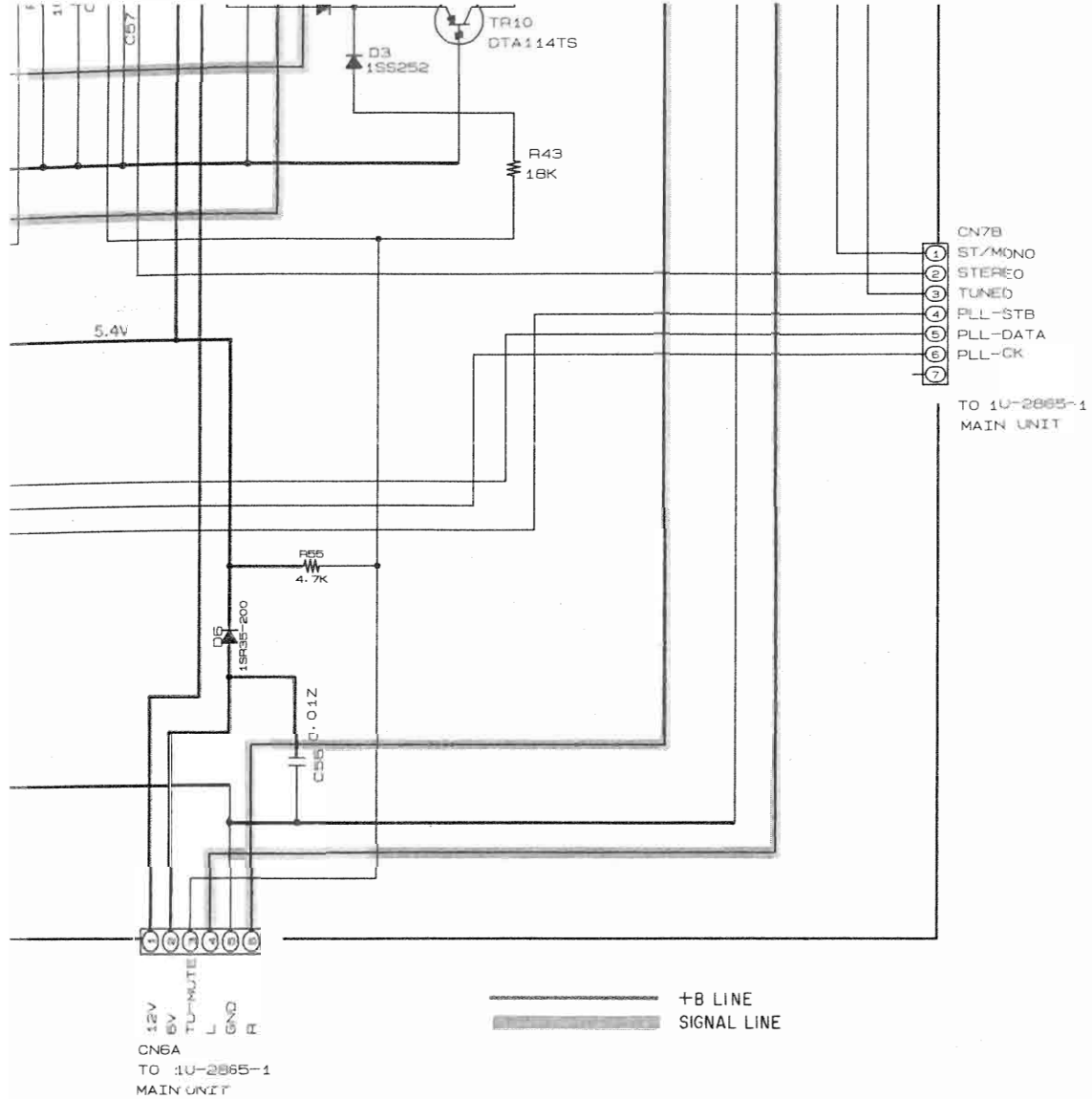


*1	R4
2	R2
3	C6
4	R5
5	R50
6	R6
7	R23
8	R32, 35
9	C53, 54
10	R33, 34
11	C23
12	R41, 42
13	TR1
14	CF1
15	CF2
16	C26
17	LF1
18	LF2, 3
19	IC4
20	J4, 5, 6
21	R22
22	LF4
23	C40



1U-2889-1 TUNER UNIT

		E3	E1
*1	R4	---	---
2	R2	---	---
3	C6	---	---
4	R5	1K	1K
5	R50	100	100
6	R6	---	---
7	R23	JUMPER	JUMPER
8	R32, 35	100K	100K
9	C53, 54	CC750P	CC750P
10	R33, 34	120K	120K
11	C23	CC100P	CC100P
12	R41, 42	6.8K	6.8K
13	TR1	---	---
14	CF1	CFSK107M1-A	CFSK107M1-A
15	CF2	CFSK107M2-A	CFSK107M2-A
16	C26	---	---
17	LF1	---	---
18	LF2, 3	---	---
19	IC4	F/E 2160102008	F/E 2160102008
20	J4, 5, 6	JUMPER	JUMPER
21	R22	18K	39K
22	LF4	---	---
23	C40	1/50	0.33/50



C
D
E
F
G
H

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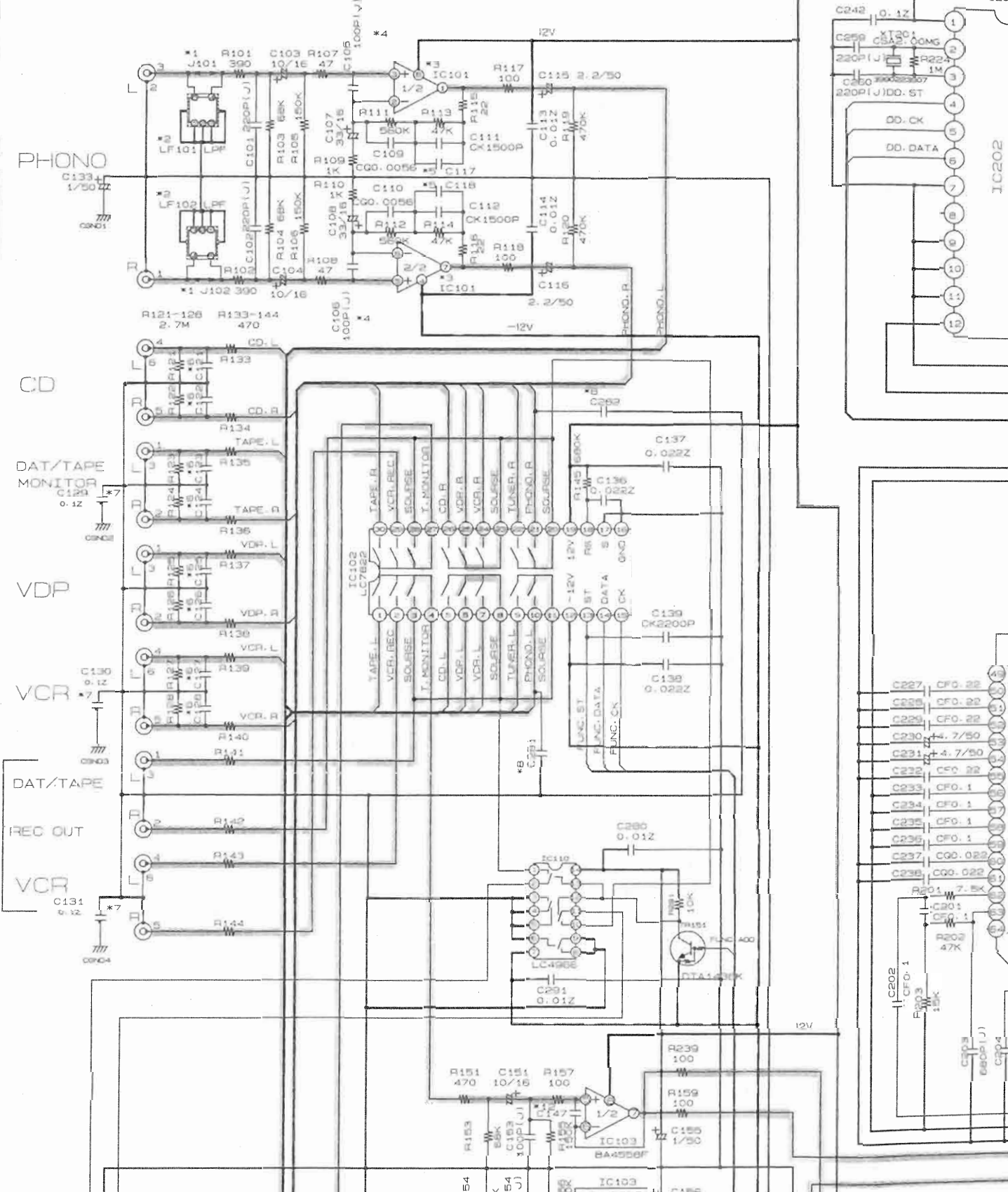
WARNING:
 DO NOT return the unit to the customer until the problem is located and corrected.

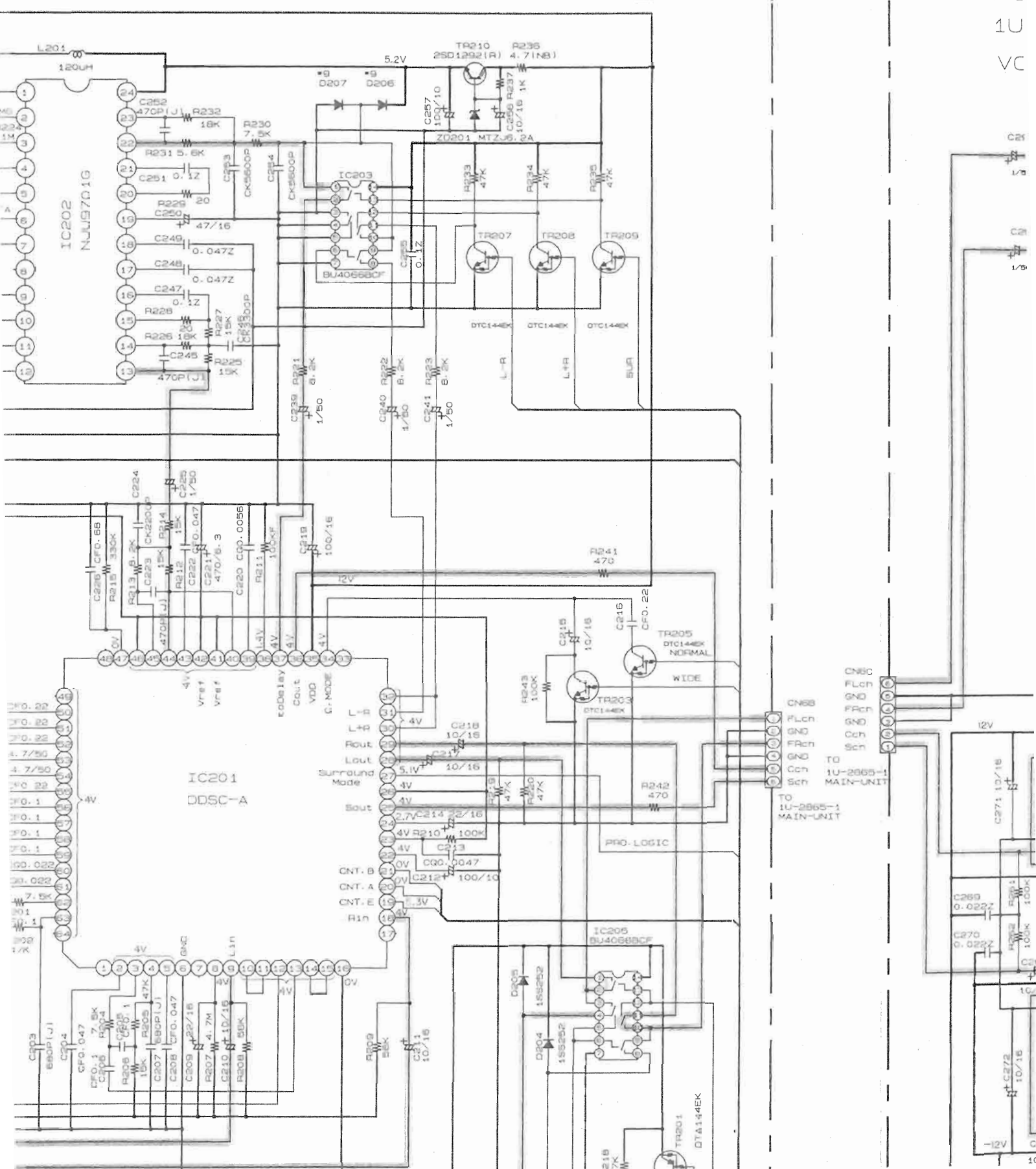
SCHEMATIC DIAGRAM

1 2 3 4

1U-2867-1 SURROUND UNIT

A
B
C
D
E

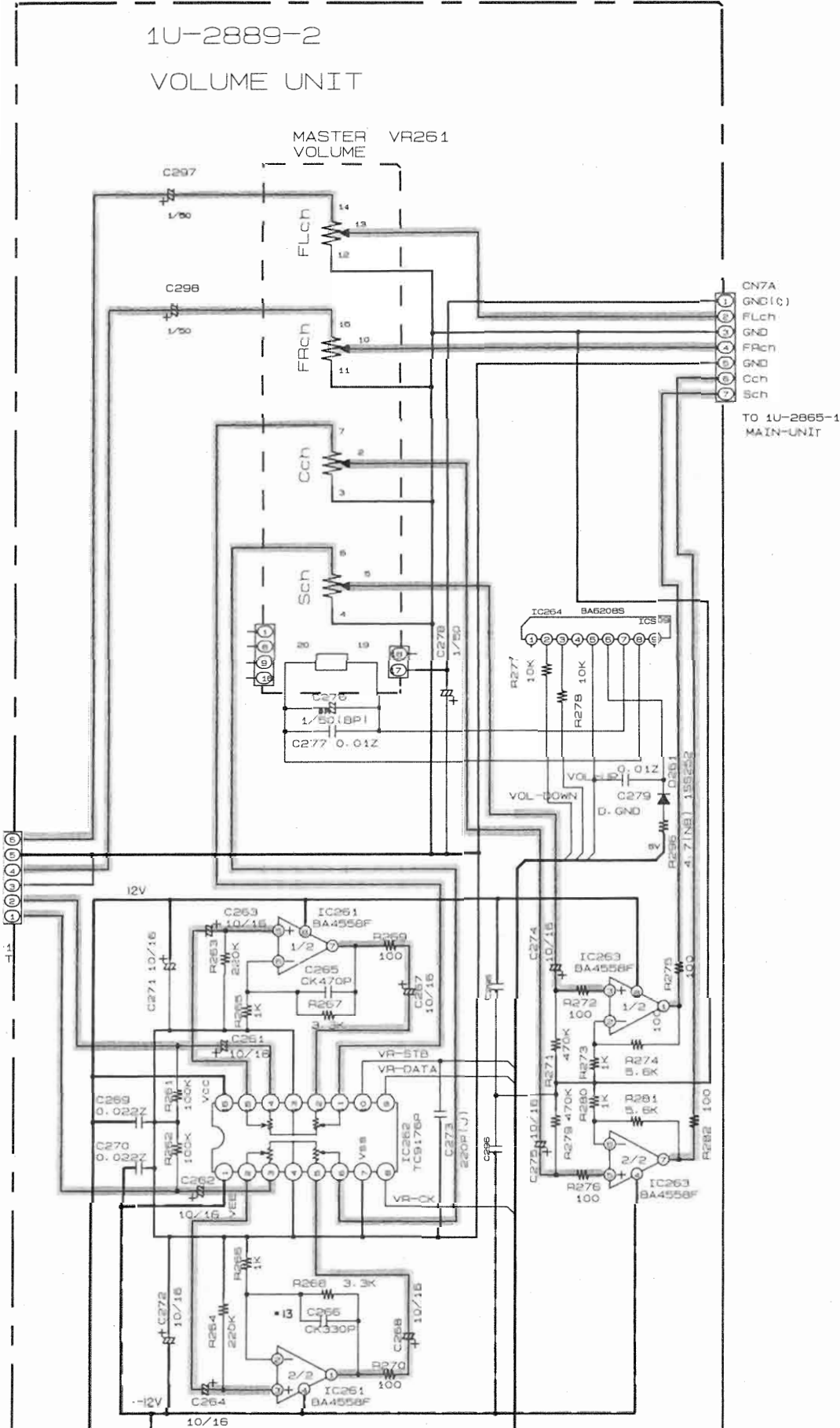




1U
VC

1U-2889-2 VOLUME UNIT

MASTER VOLUME VR261



- CN7A
- GND(C)
- FLch
- GND
- FRch
- GND
- Cch
- Sch

TO 1U-2865-1
MAIN-UNIT

C

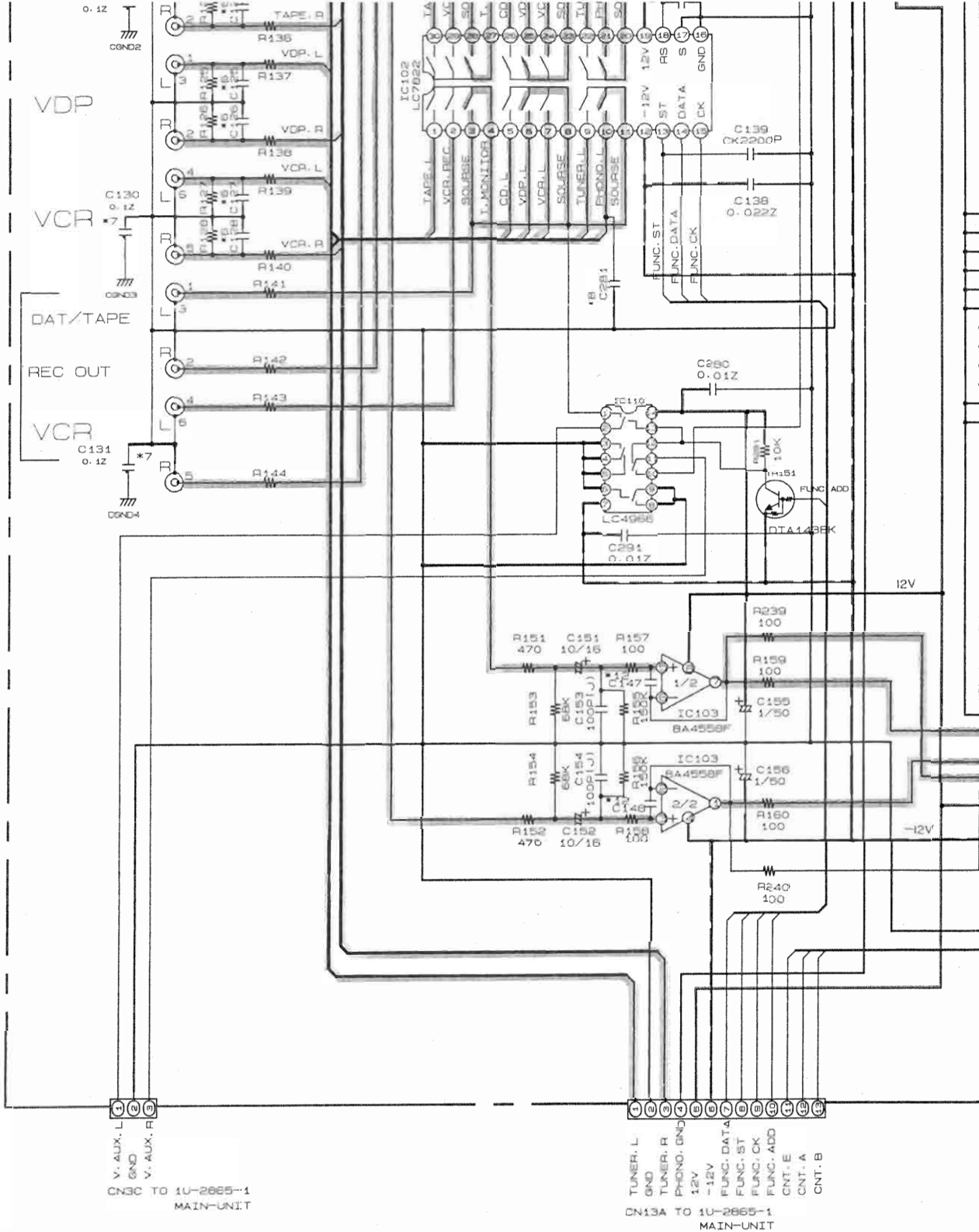
D

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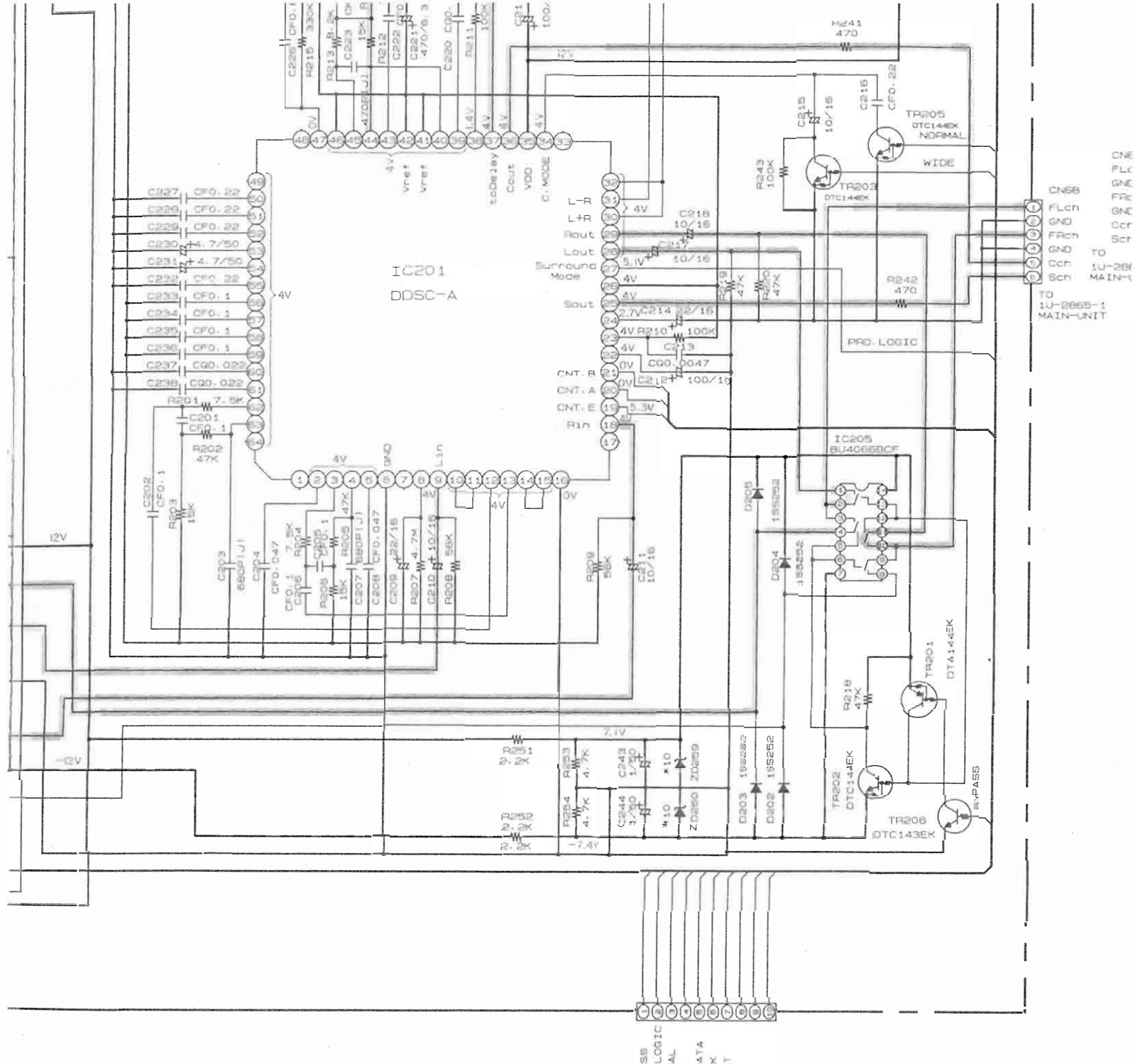


NOTES
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 ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
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 NOTICE.

WARNING:
 Parts marked with this symbol  have critical ch
 Use ONLY replacement parts recommended by the man

CAUTION:
 Before returning the unit to the customer, make sure you
 leakage current check or (2) a line to chassis resistance
 current exceeds 0.5 milliamps, or if the resistance from c
 of the power cord is less than 240 kohms, the unit is def

WARNING:
 DO NOT return the unit to the customer until the problem
 corrected.



ONE
 FLc
 GNE
 FRc
 GNC
 GND
 Gcr
 FRch
 Scr
 TO
 Ccn
 1U-286
 MAIN-1
 TO
 1U-2865-1
 MAIN-UNIT

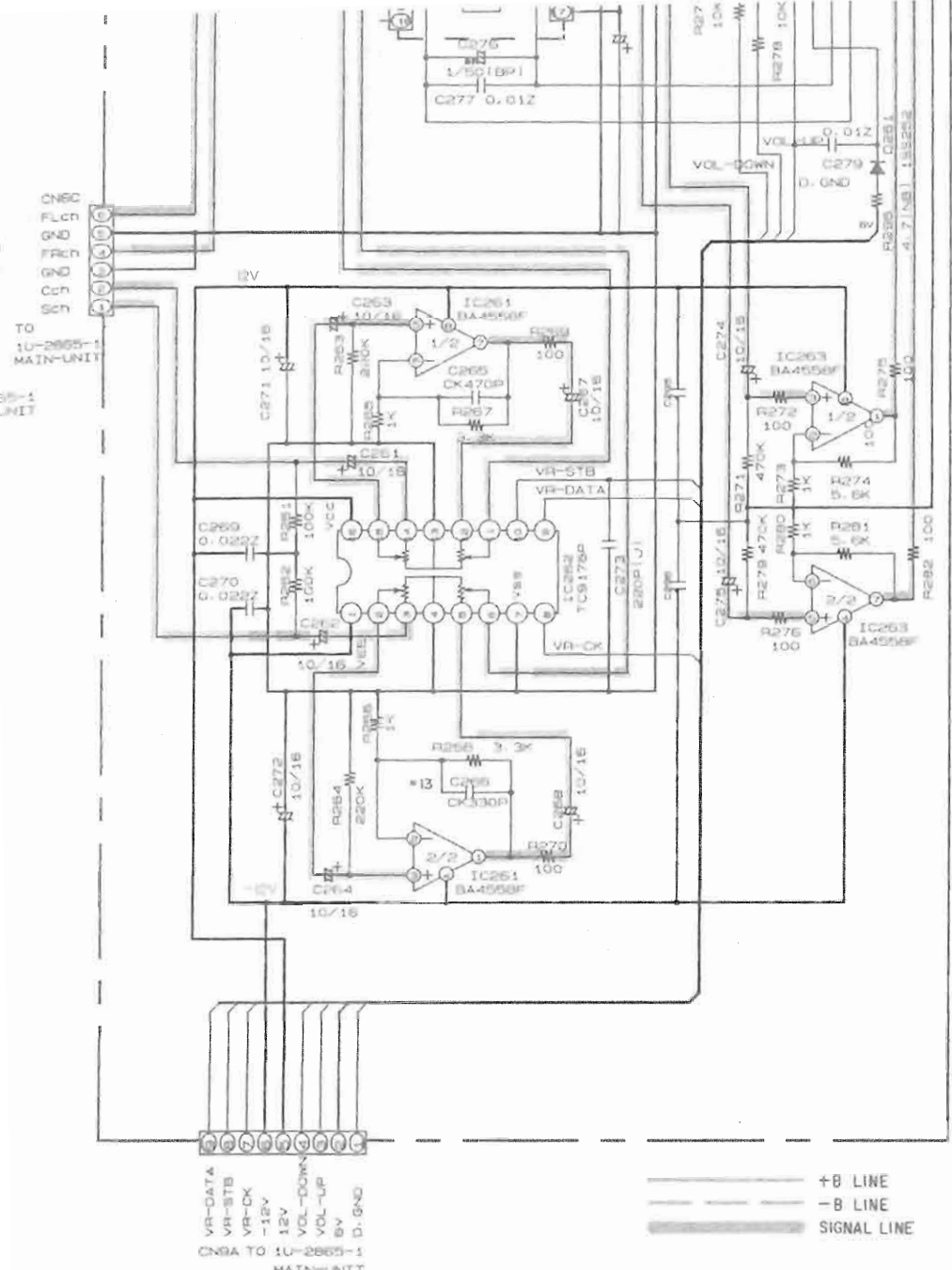
CN10A TO 1U-2865-1
 MAIN-UNIT
 BYPASS
 PRO. LOGIC
 NORMAL
 WIDE
 DD. DATA
 DD. CK
 DD. ST
 SUR
 L4R
 L-R

	#1
	J101
	J102
E3	JW
E1	4.7K

have critical characteristics.
 recommended by the manufacturer.

When making a chassis resistance check, make sure you make either (1) a chassis resistance check. If the leakage resistance from chassis to either side exceeds 100 ohms, the unit is defective.

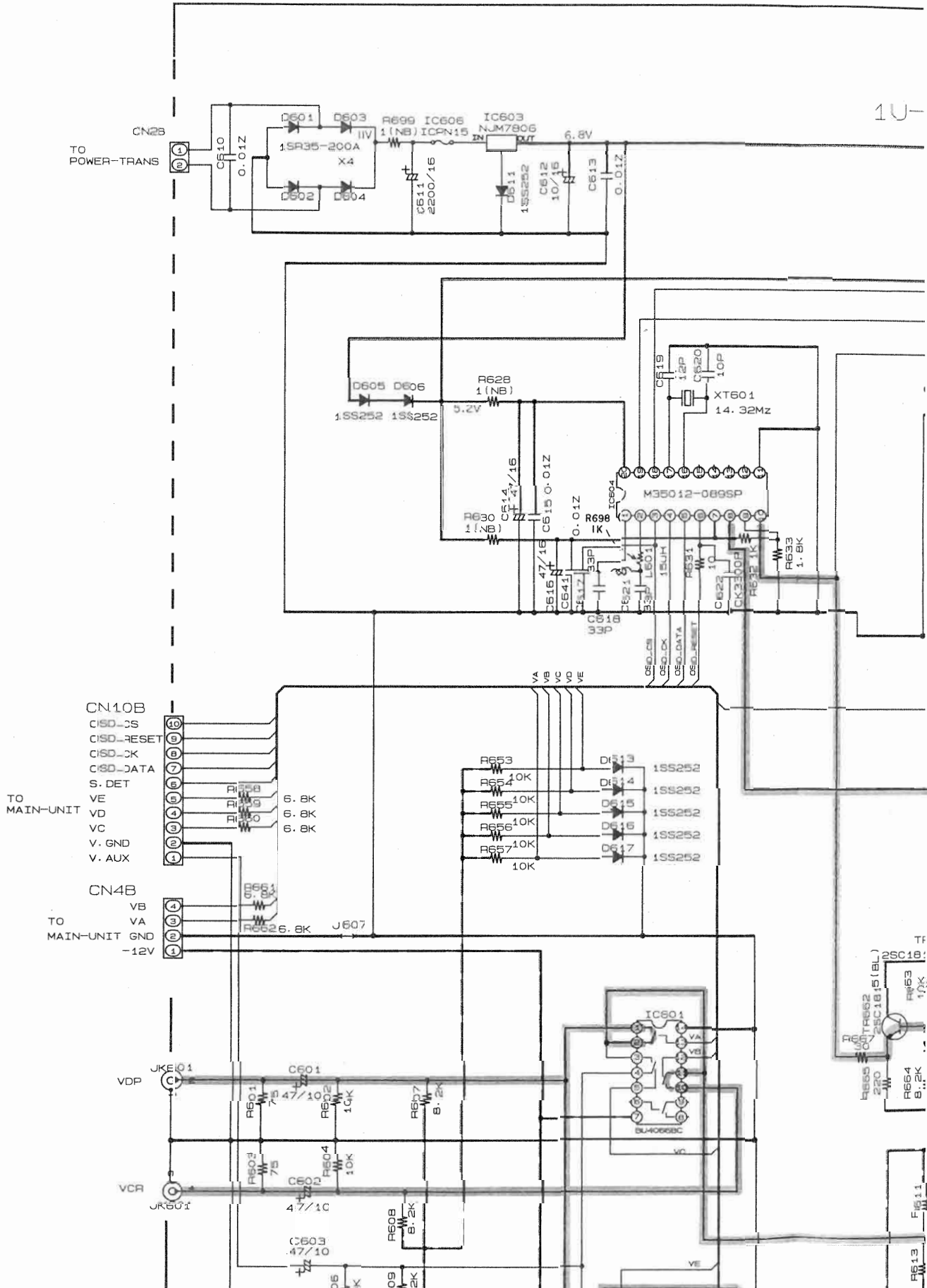
Repair until the problem is located and



#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
101	LF101	IC101	C105	C117	C121-128	C129-131	C261	D208	ZD259	CN3C	C147	C266
102	LF102		C106	C118			C262	D207	ZD260		C148	
1W		BA4556F	100P			0.1						CK330P
7K	FTZ-COIL	NJM-2068MD	100P		CC56p	0.1	CG0.001				CC100p	CK1200P

SCHEMATIC DIAGRAM

1 | 2 | 3 | 4



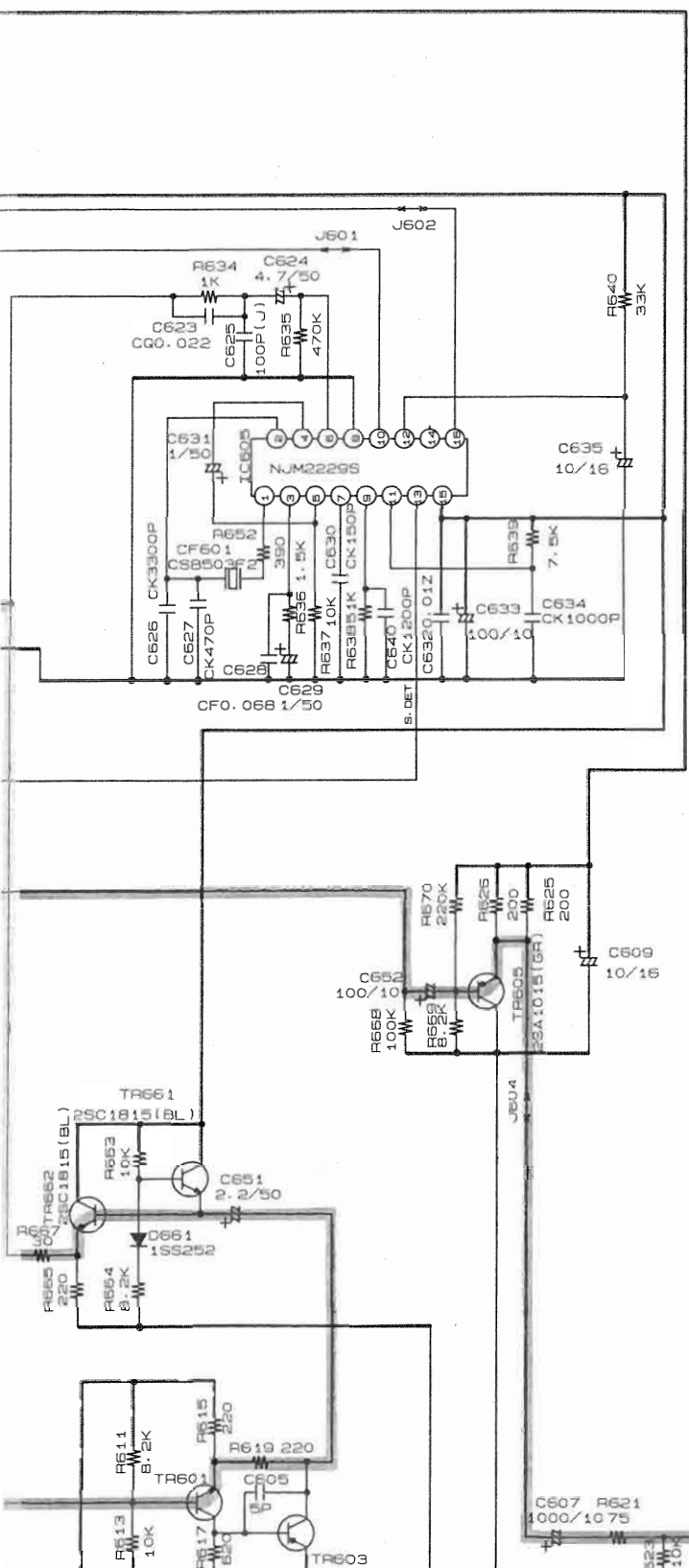
1U-


TF

F611

F613

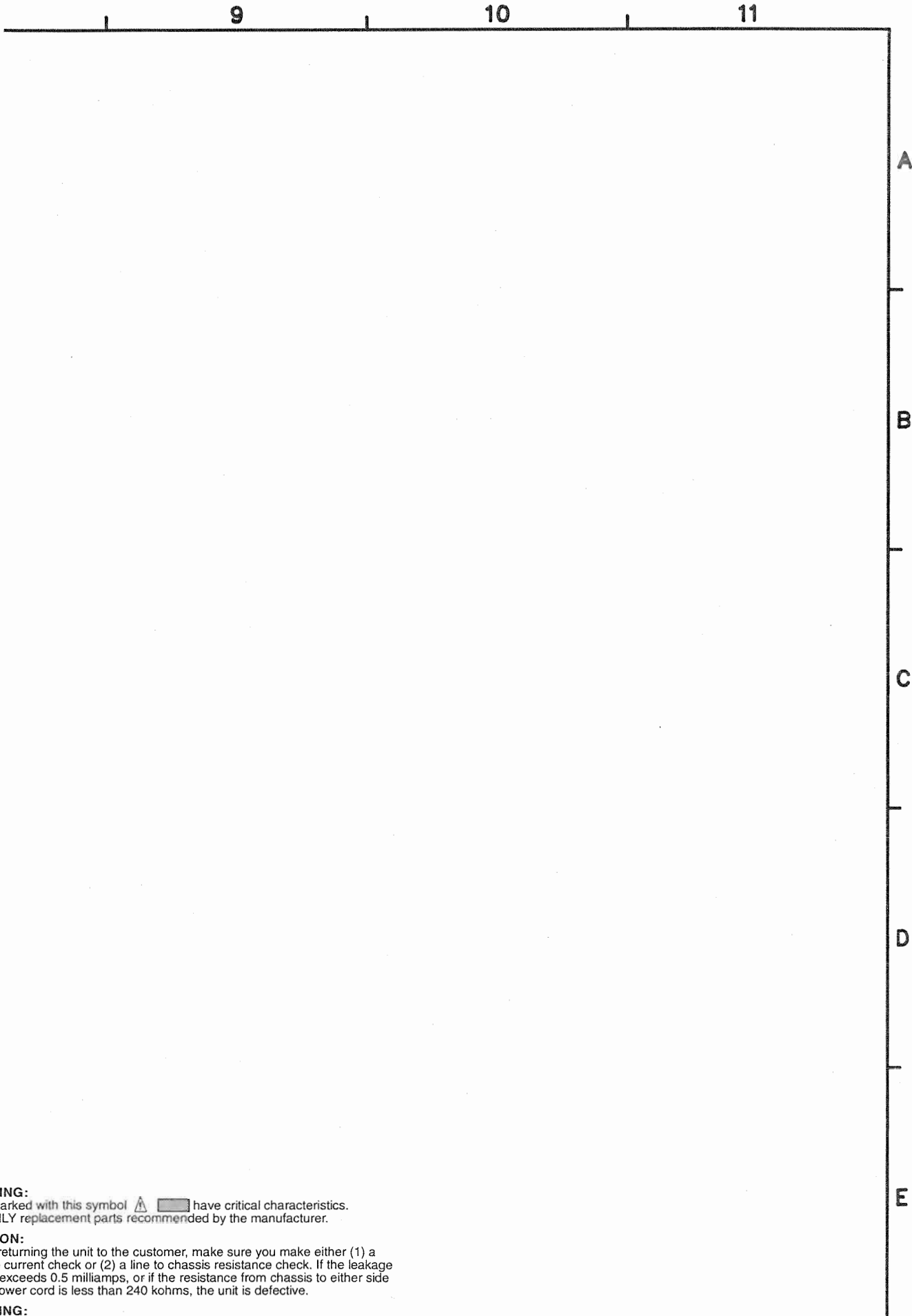
1U-2883-3



WARNING:
 Parts marked with this symbol  Use ONLY replacement parts re

CAUTION:
 Before returning the unit to the c
 leakage current check or (2) a fir
 current exceeds 0.5 milliamps, o
 of the power cord is less than 24

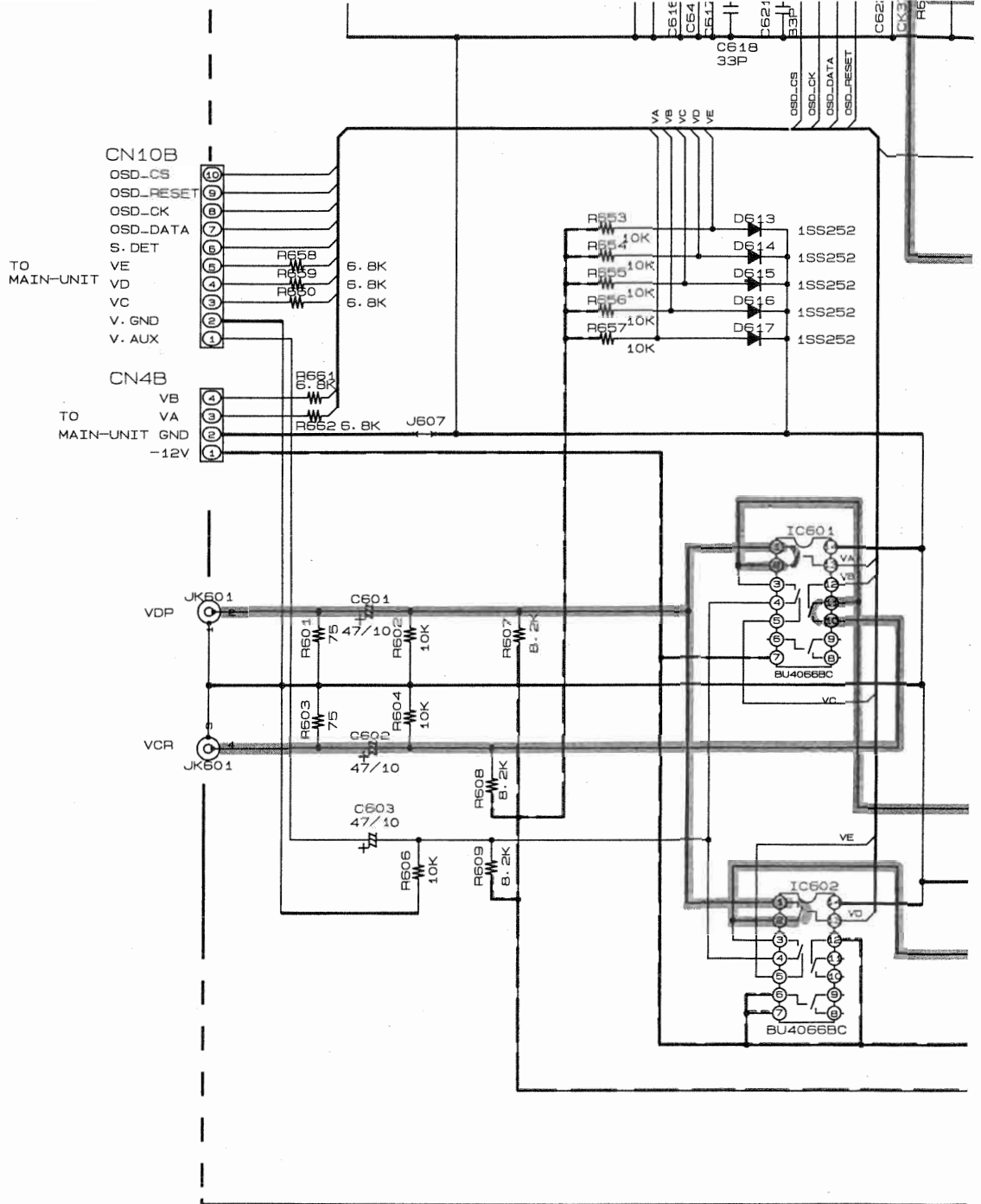
WARNING:
 DO NOT return the unit to the cu



WARNING:
Components marked with this symbol  have critical characteristics. Only replacement parts recommended by the manufacturer.

CAUTION:
When 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 cord is less than 240 kohms, the unit is defective.

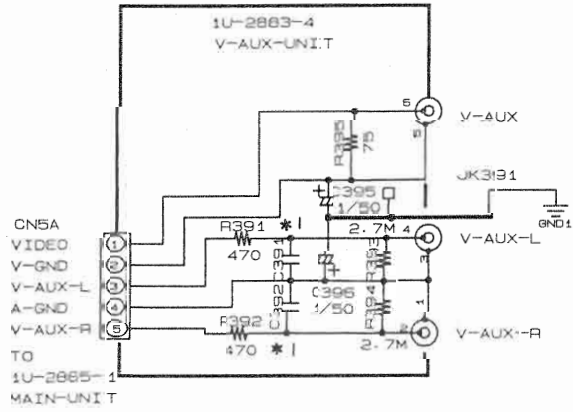
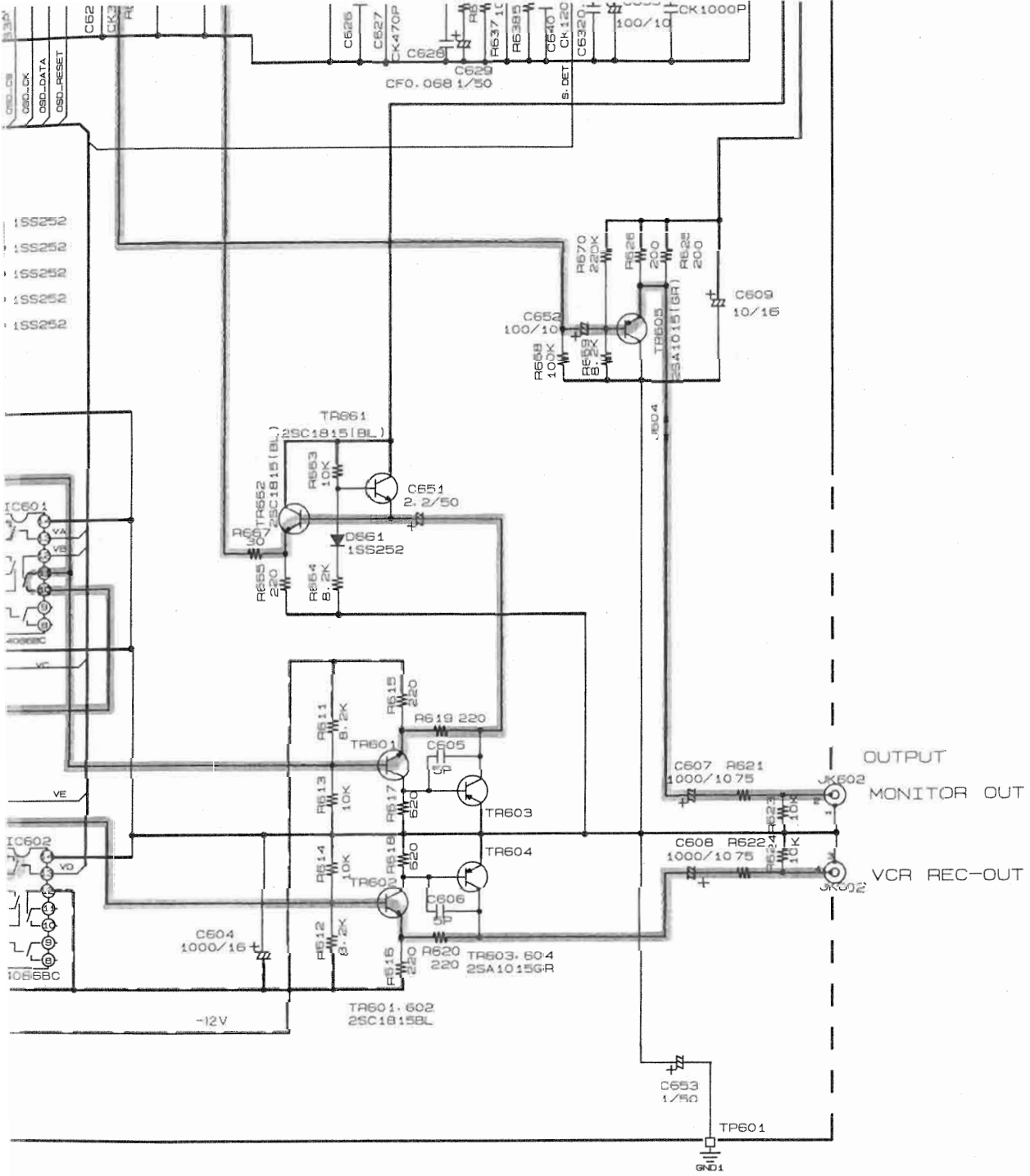
WARNING:



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

	# 1
	C391 C392
E3	—
E1	CC56P

CN5
 VIDI
 V-GI
 V-AI
 A-GI
 V-AI
 TO
 1U-i
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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 cord is less than 240 kohms, the unit is defective.

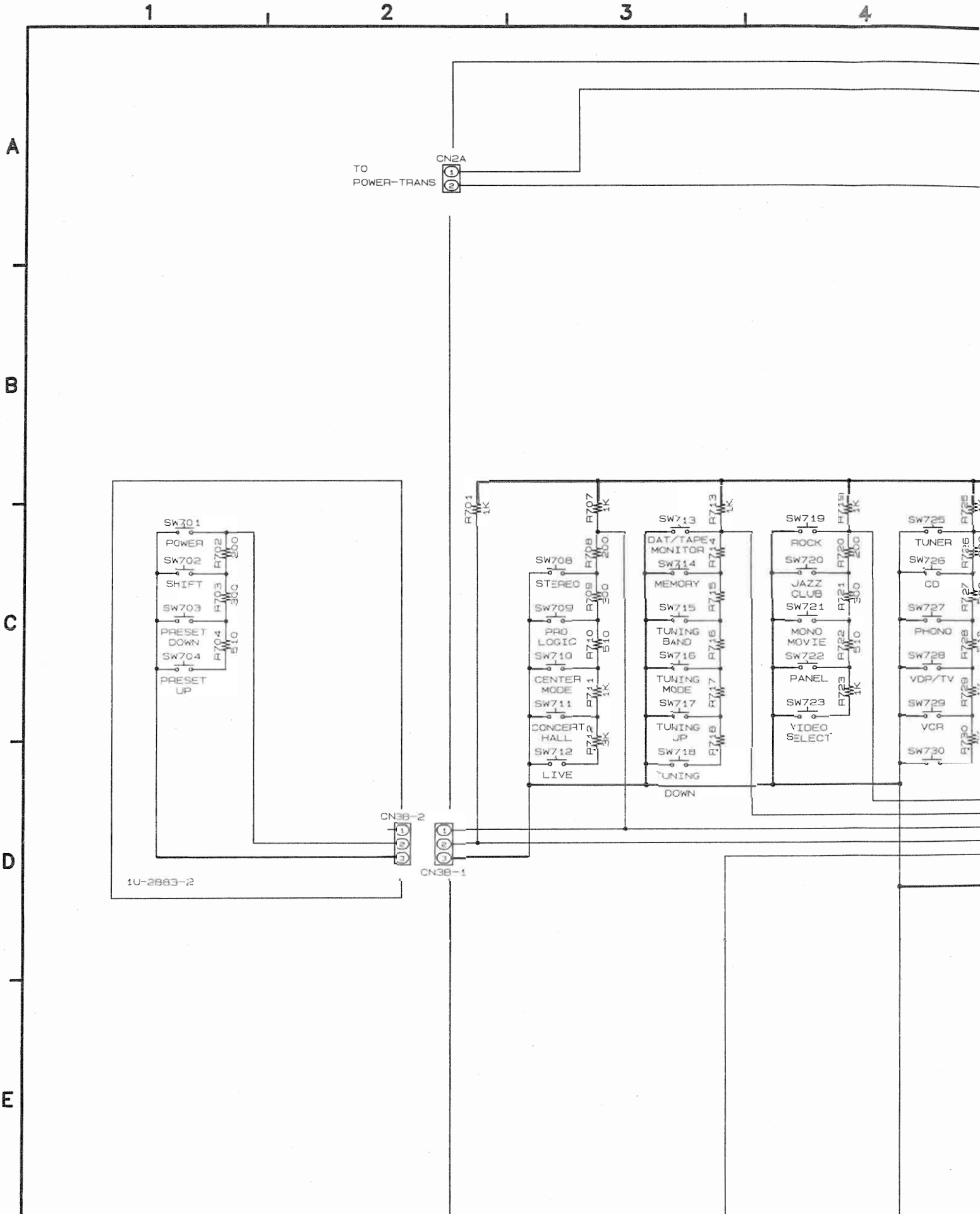
WARNING:

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

NOTES

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CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

SCHEMATIC DIAGRAM

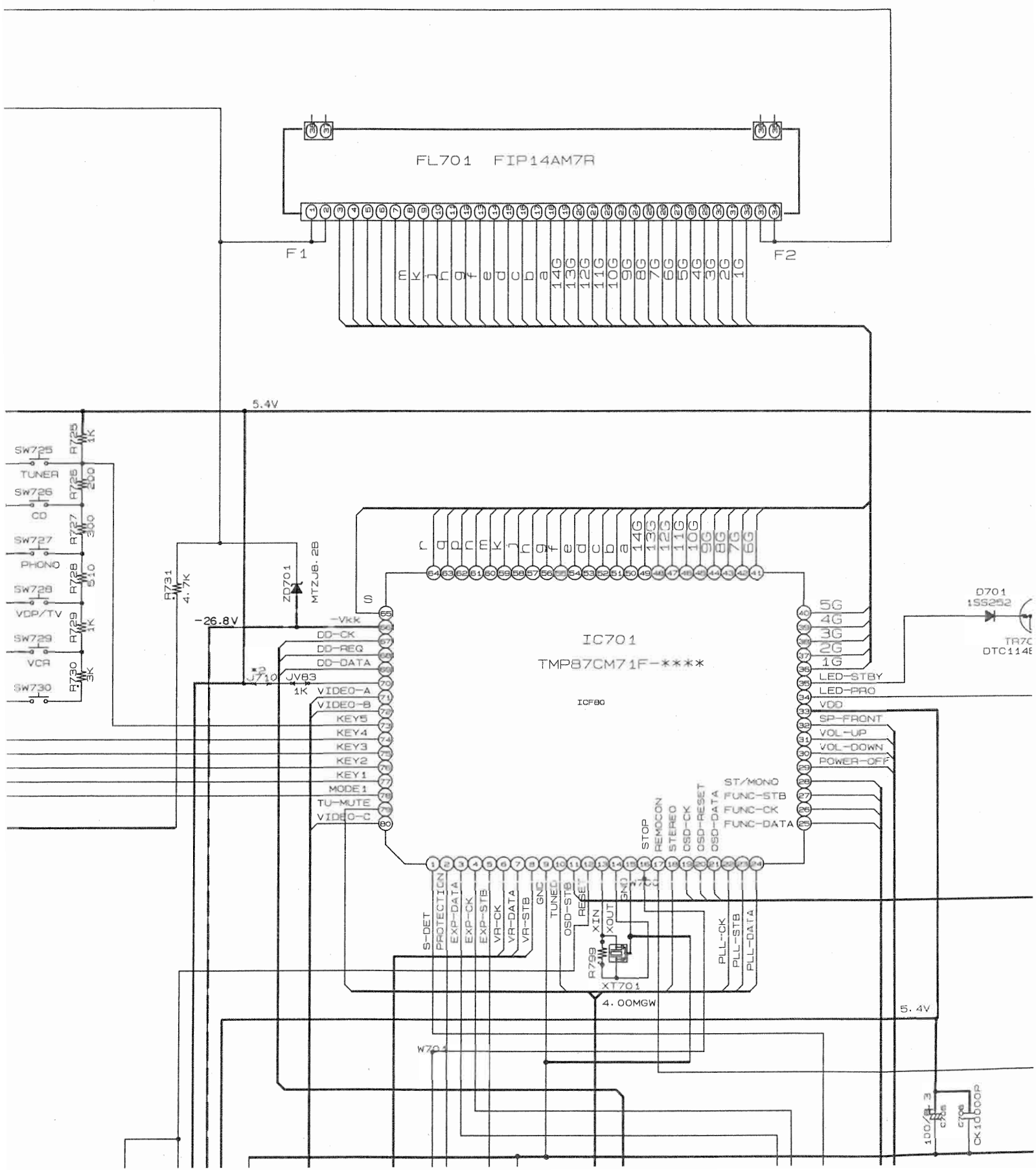


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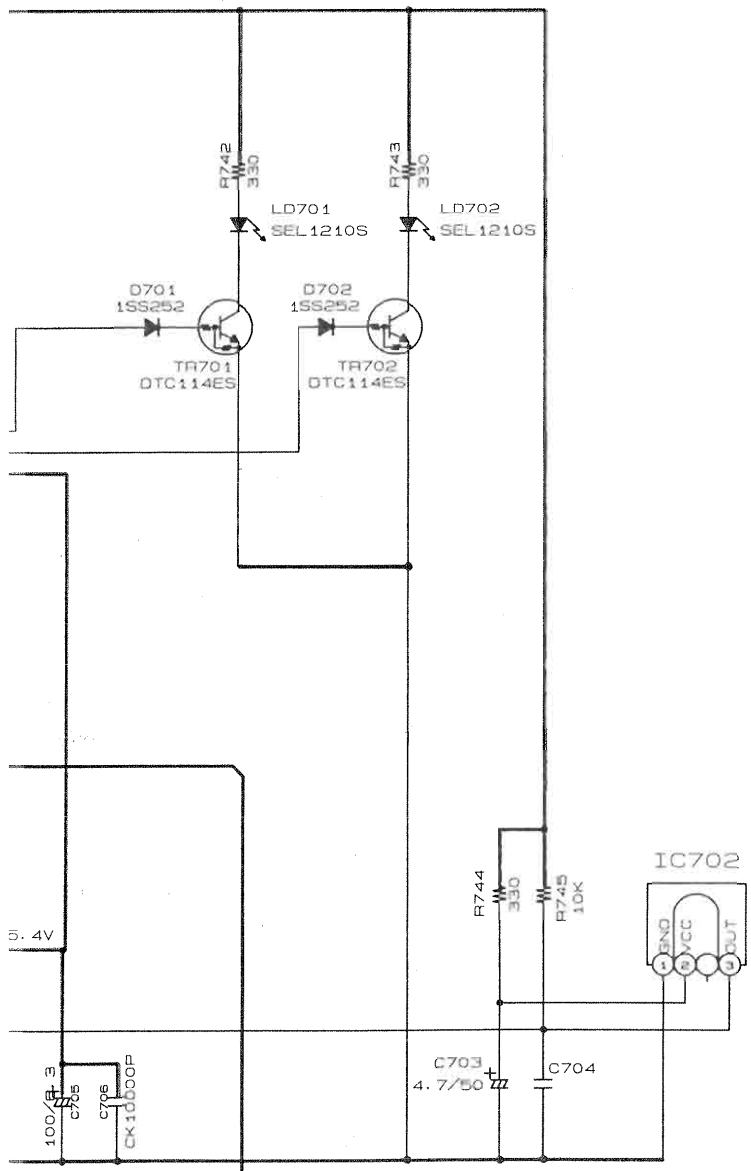
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1U-2883-1

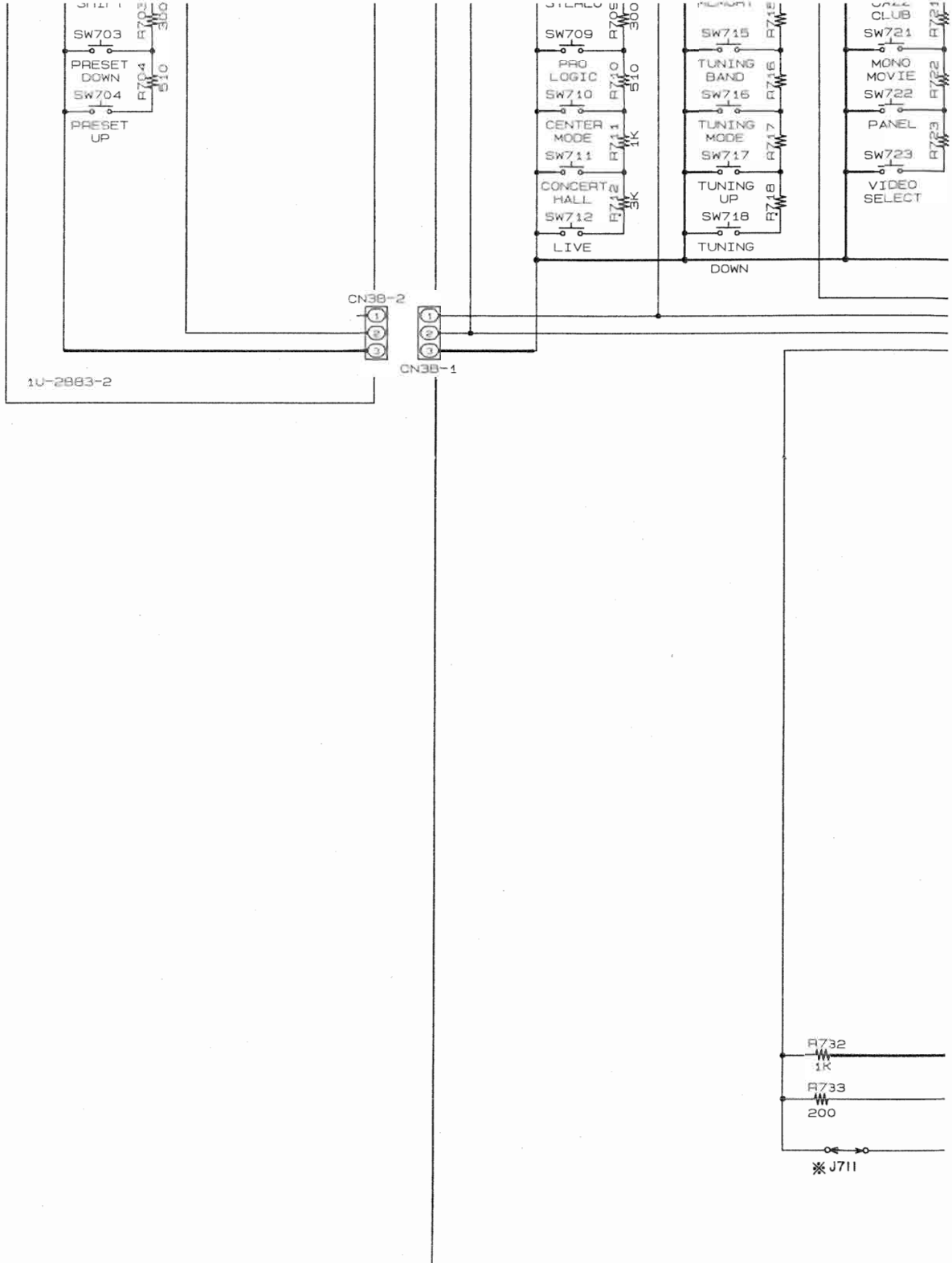


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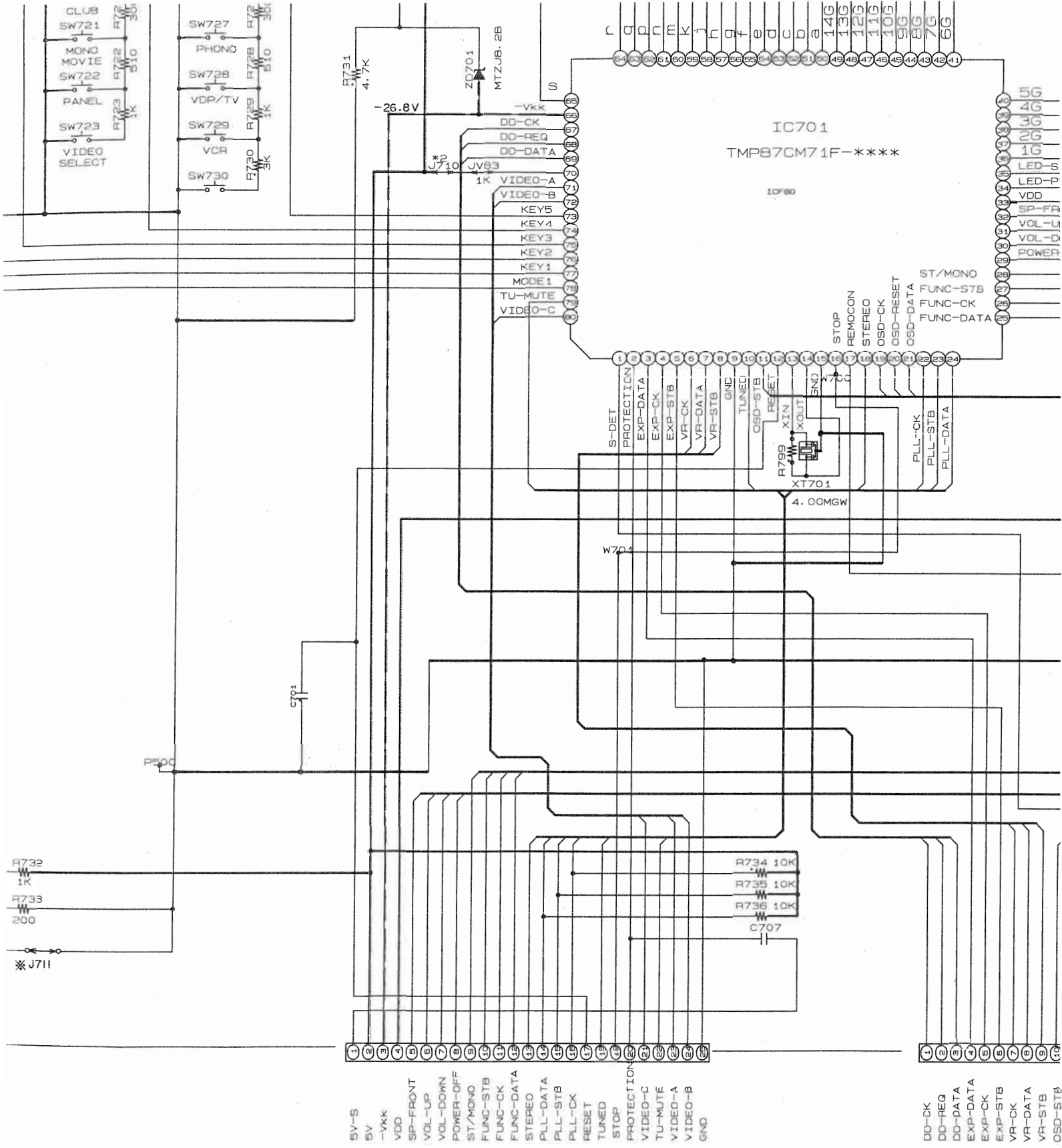


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 NOTICE.

	* 1
	J711
1200 E3	JUMPER
1200 E1	* WARNING: Parts marked with this symbol have critical characteris Use ONLY replacement parts recommended by the manufacturer
1200 E3	

CAUTION:
 Before returning the unit to the customer, make sure you make ei
 leakage current check or (2) a line to chassis resistance check. If
 current exceeds 0.5 milliamps, or if the resistance from chassis to
 of the power cord is less than 240 kohms, the unit is defective.

WARNING:
 DO NOT return the unit to the customer until the problem is locat
 corrected.



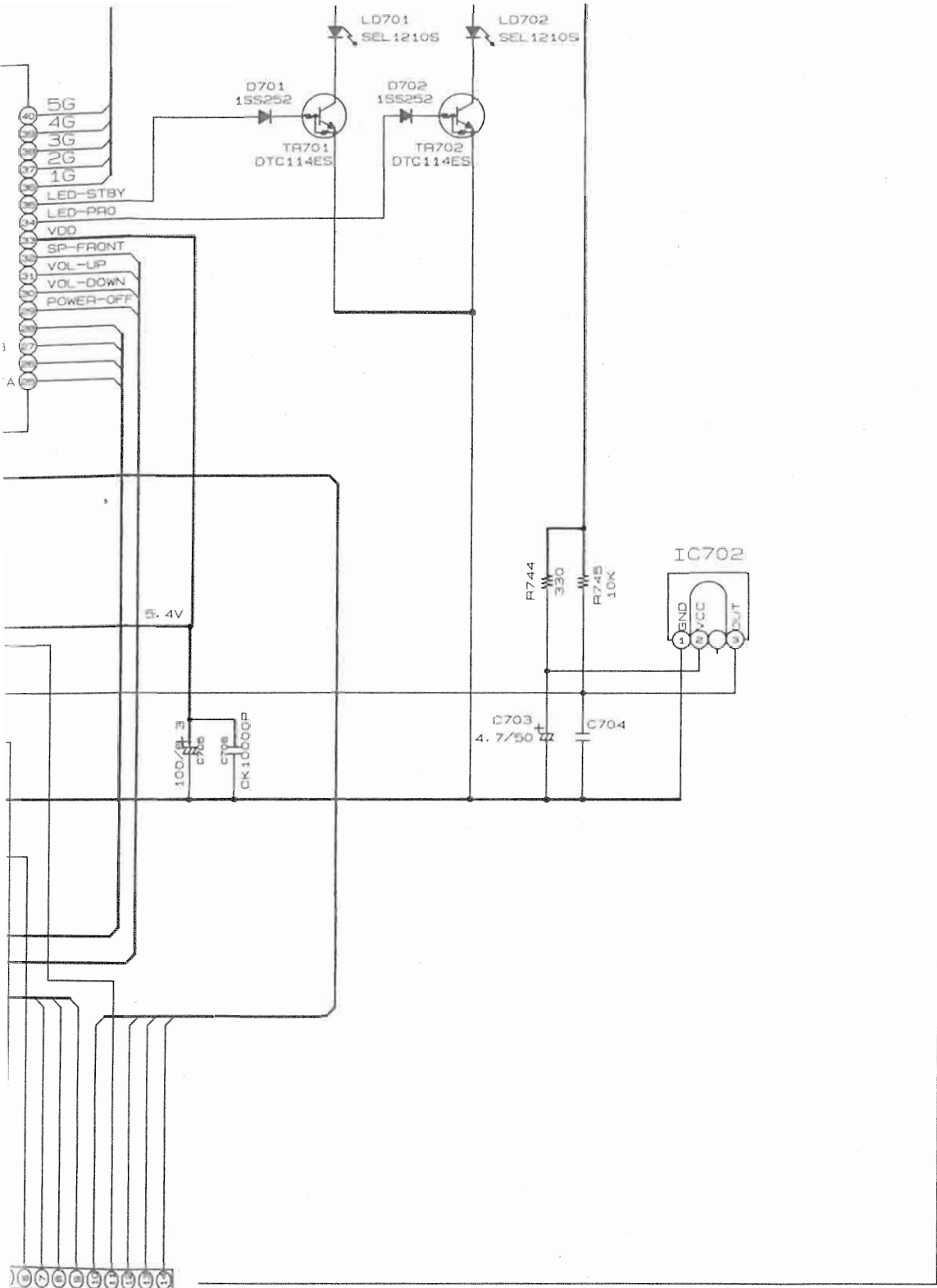
ive critical characteristics.
 1 by the manufacturer.

like sure you make either (1) a
 s resistance check. If the leakage
 tance from chassis to either side
 e unit is defective.

the problem is located and

CN25A
 TO 1U-2865-1
 MAIN-UNIT

CN14A
 TO 1U-2865-1
 MAIN-UNIT



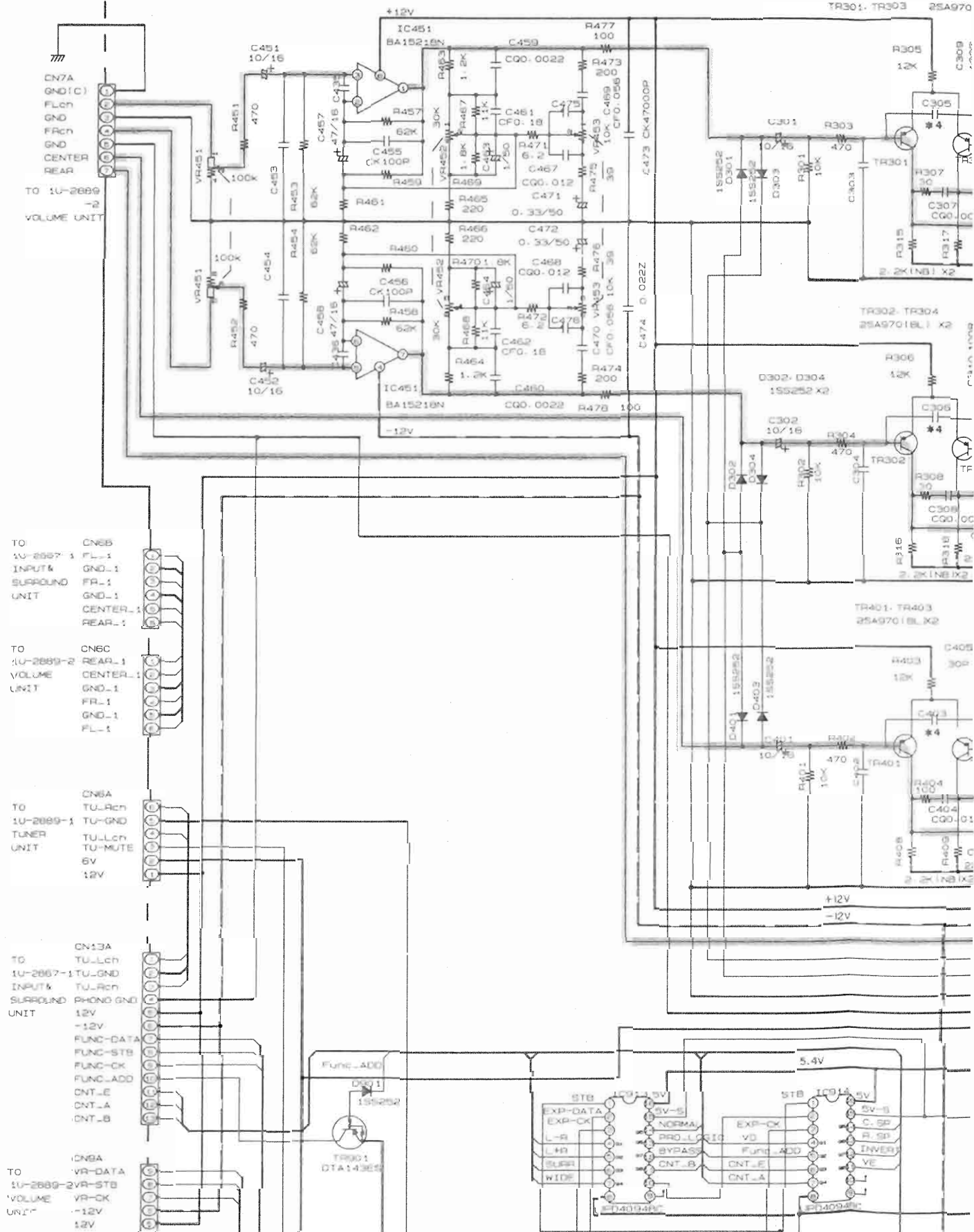
- EXP-STB
- VR-CK
- VR-DATA
- VR-STB
- OSD-STB
- S-DET
- OSD-CK
- OSD-RESET
- OSD-DATA

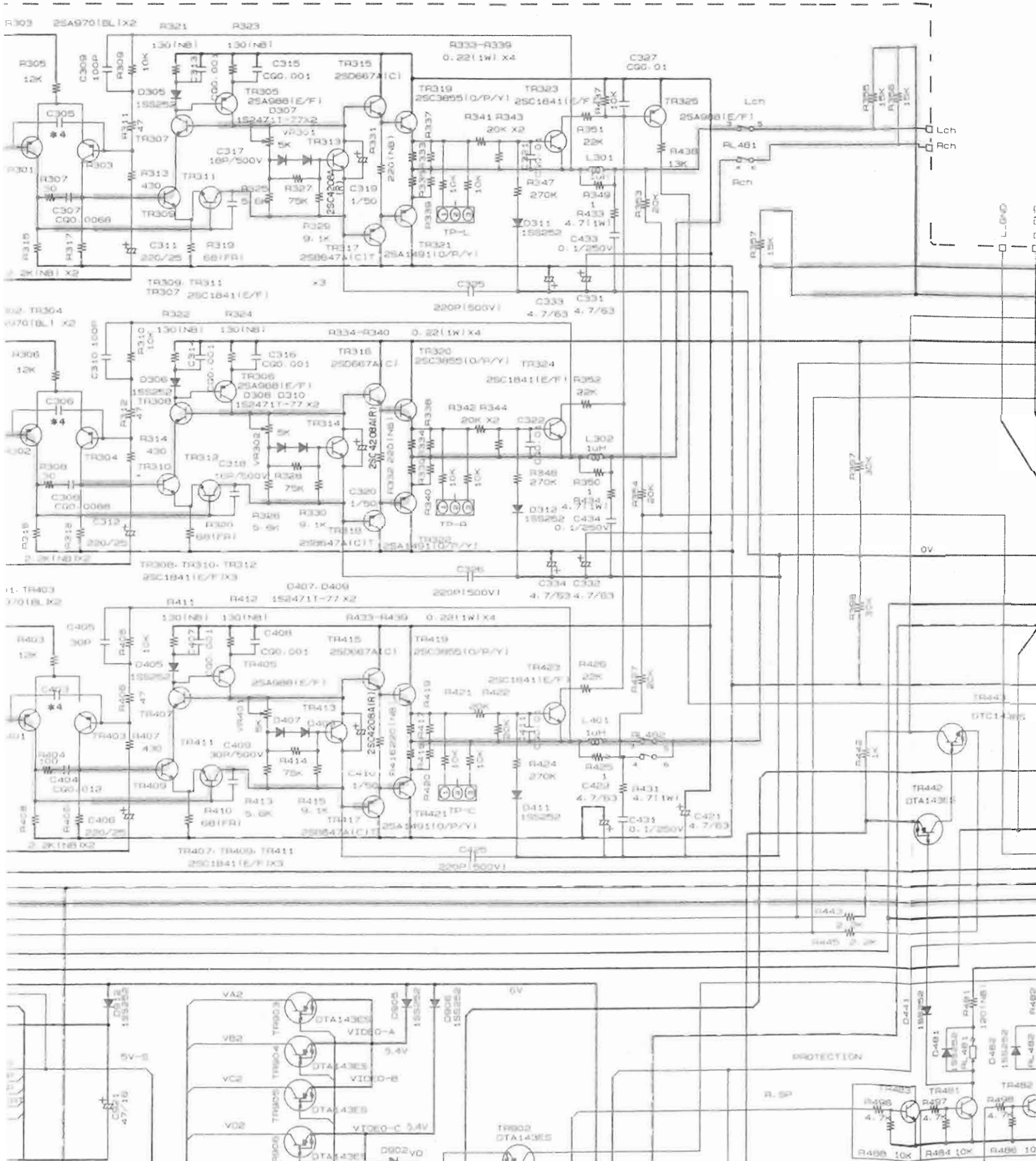
— +B LINE
 - - - -B LINE

SCHEMATIC DIAGRAM

1 | 2 | 3 | 4

1U-2865-1

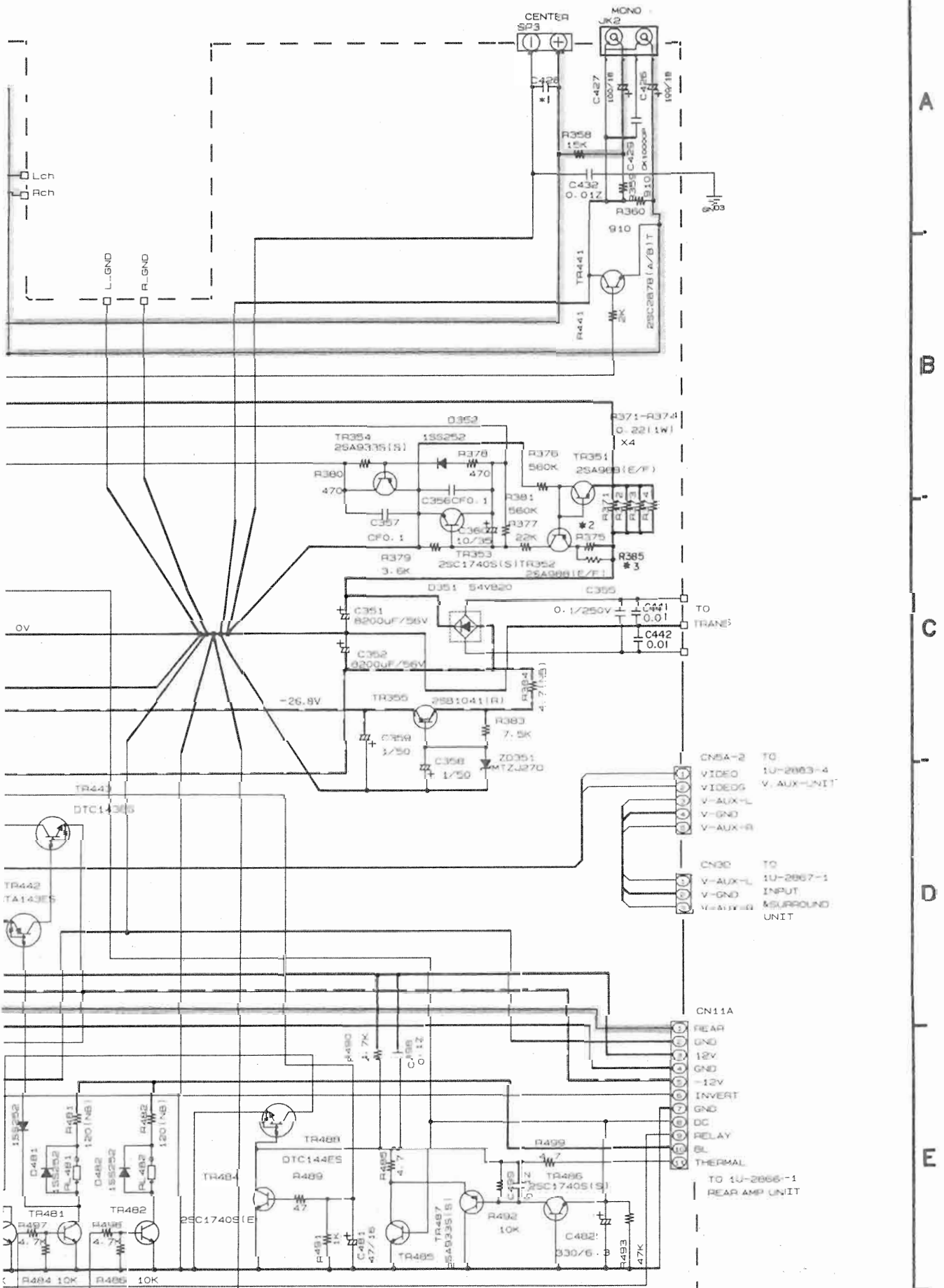




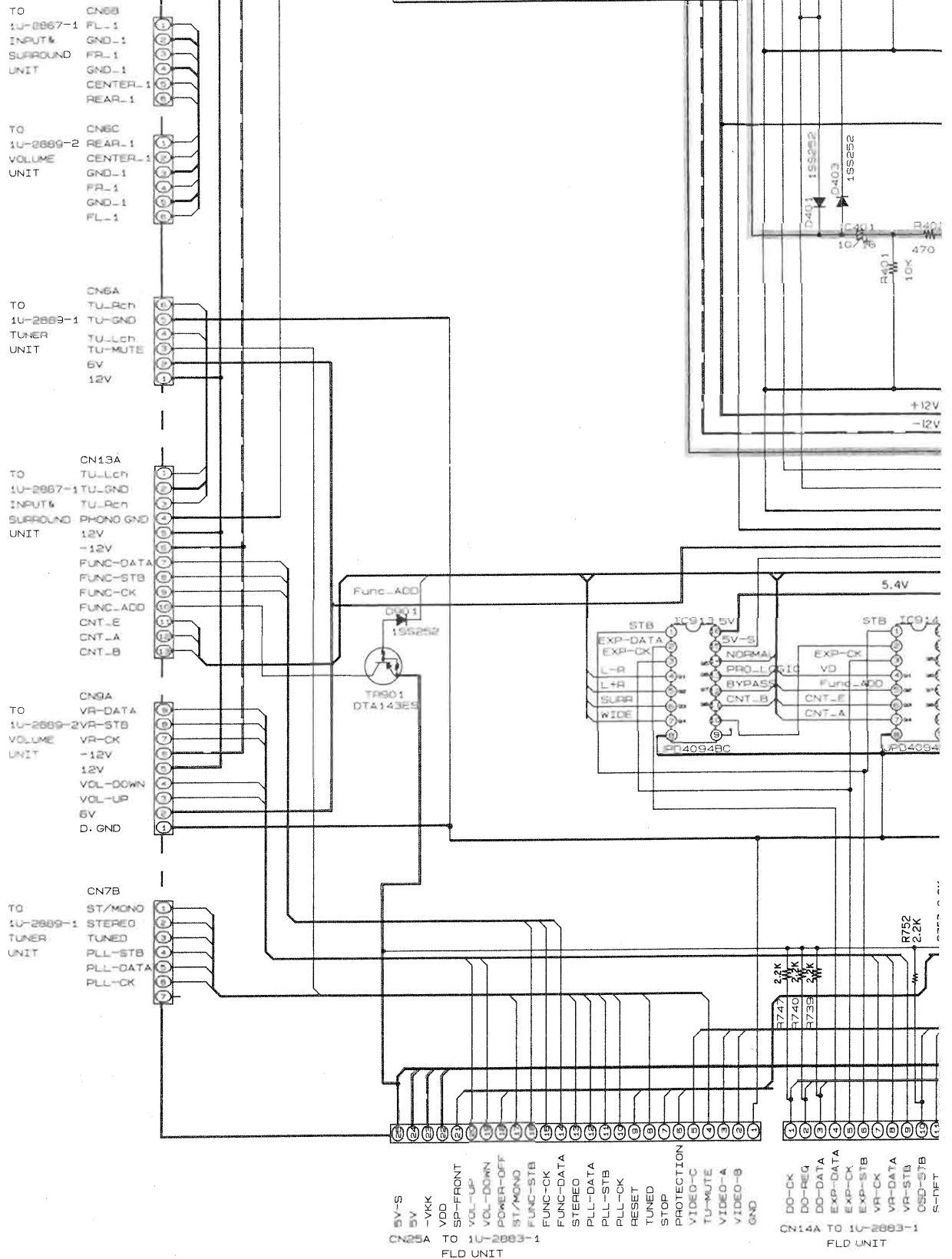
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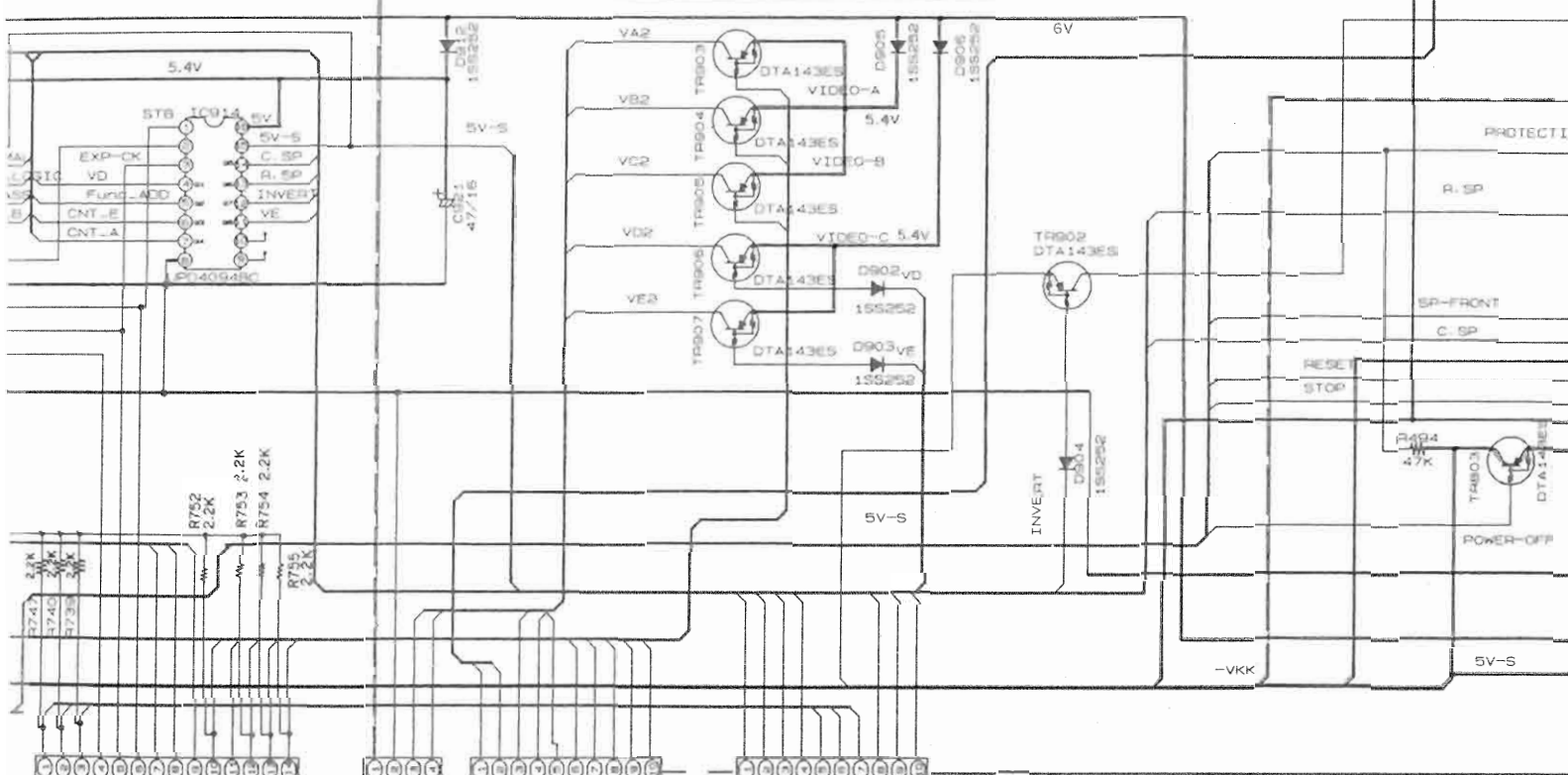
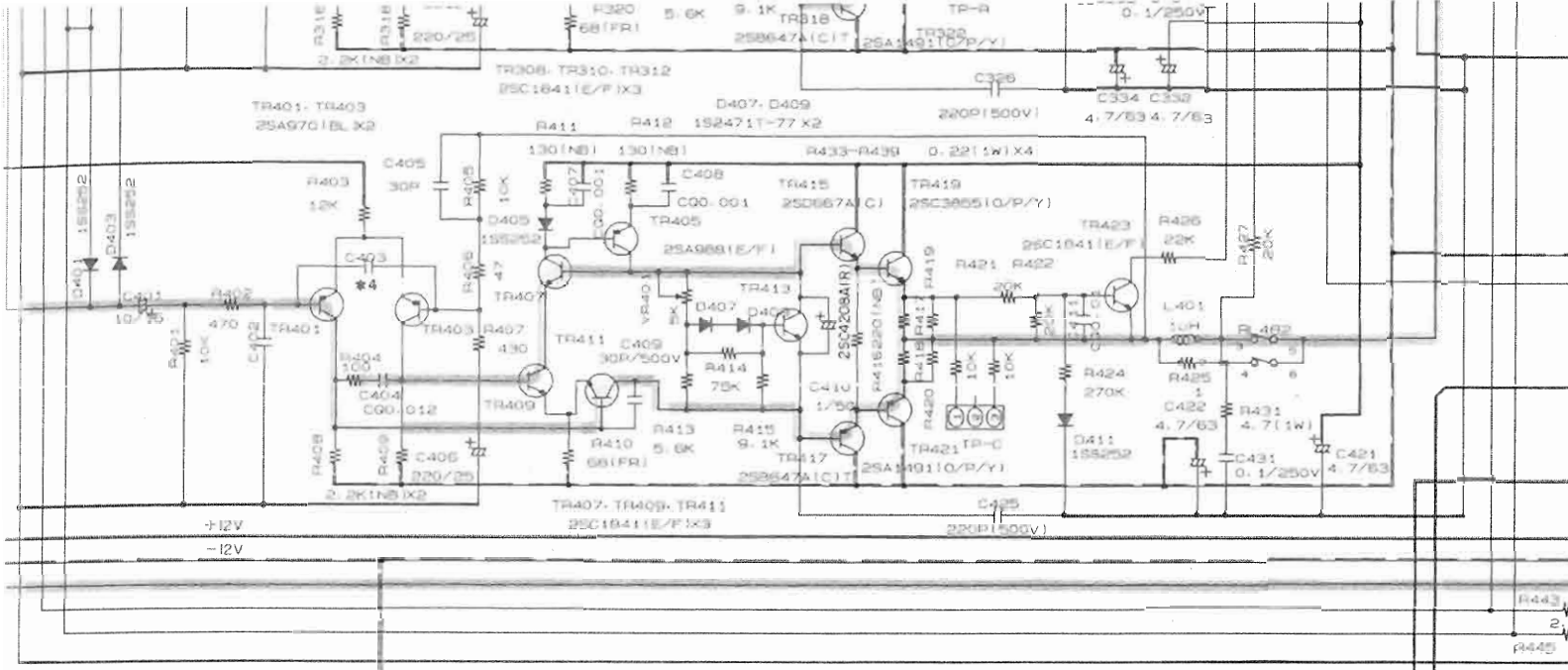
10

11



A
B
C
D
E





CN14A TO 1U-2883-1
FLD UNIT

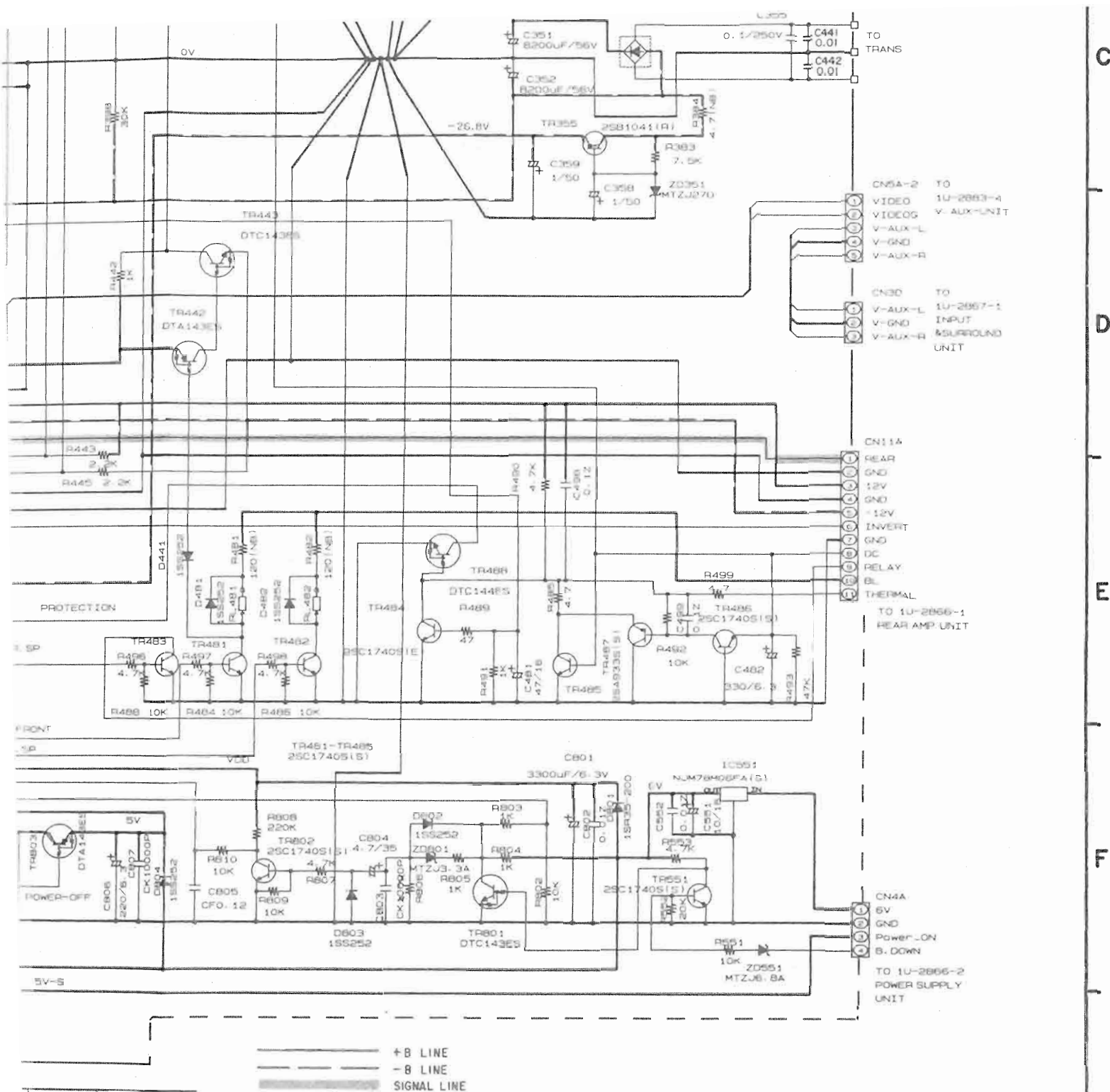
TO 4B
VIDEO UNIT

TO 1U-2883-3
VIDEO UNIT

CN10A TO 1U-2867-1
INPUT SURROUND UNIT

	*1	*2	*3
	C428	R375	R385
E3	—	1.1K	—
E1	0.0047	2.0K	2.2K

NOTES
ALL RE
ALL CA
EACH V
CONDI
CIRCU
NOTICE



————— +B LINE
 - - - - - -B LINE
 [] SIGNAL LINE

* 3	* 4
R385	C305, 306 C403
-	CK220P
2.2K	CK220P

NOTES
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WARNING:
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C
D
E
F
G
H

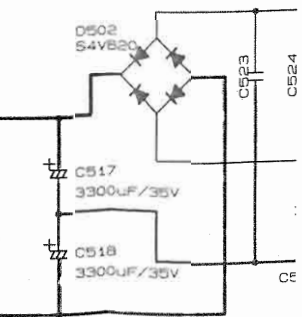
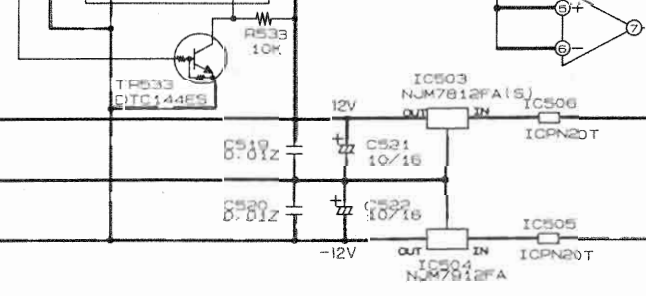
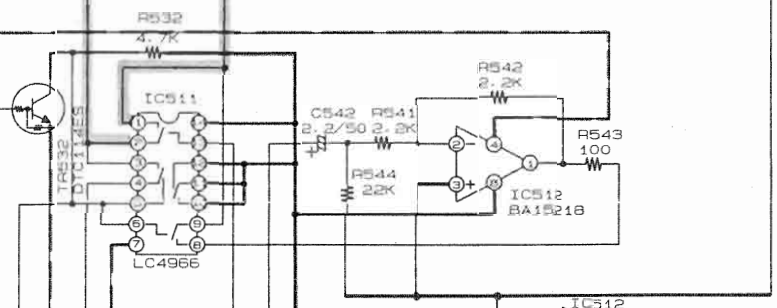
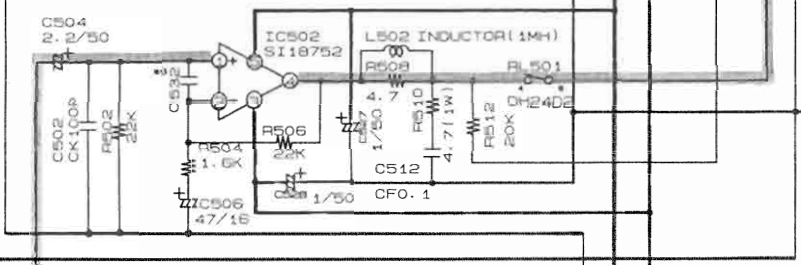
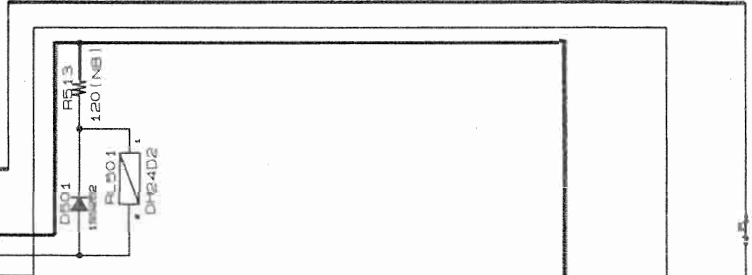
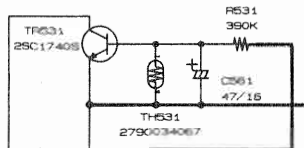
SCHEMATIC DIAGRAM

1 | 2 | 3 | 4

A
B
C
D
E

1U-2866-1
REAR AMP. UNIT

CN11A
TERMAL
BL
RELAY
DC
GND
INVERT
-12V
GND
12V
GND
Sch
TO 1U-2865-1
MAIN-UNIT

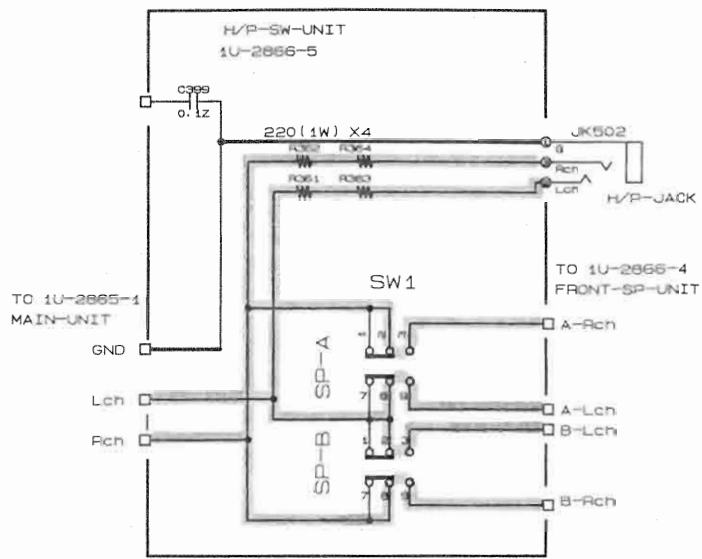
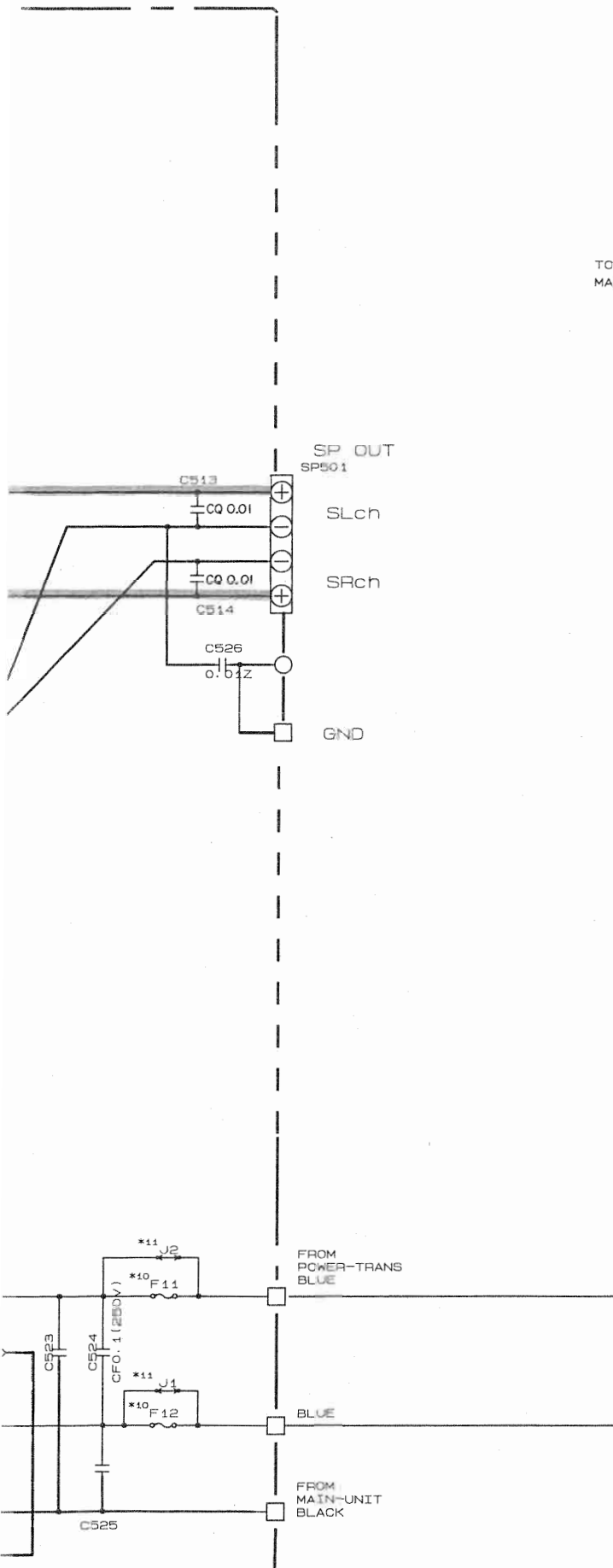


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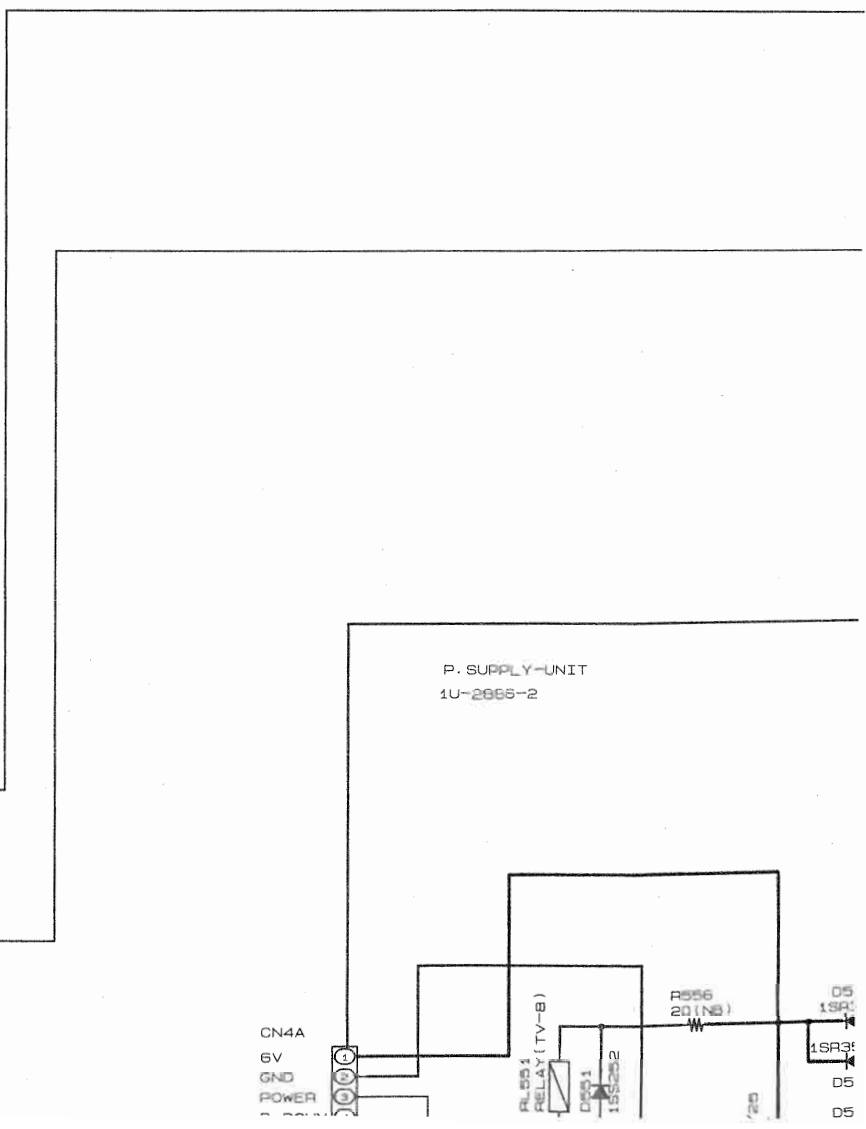
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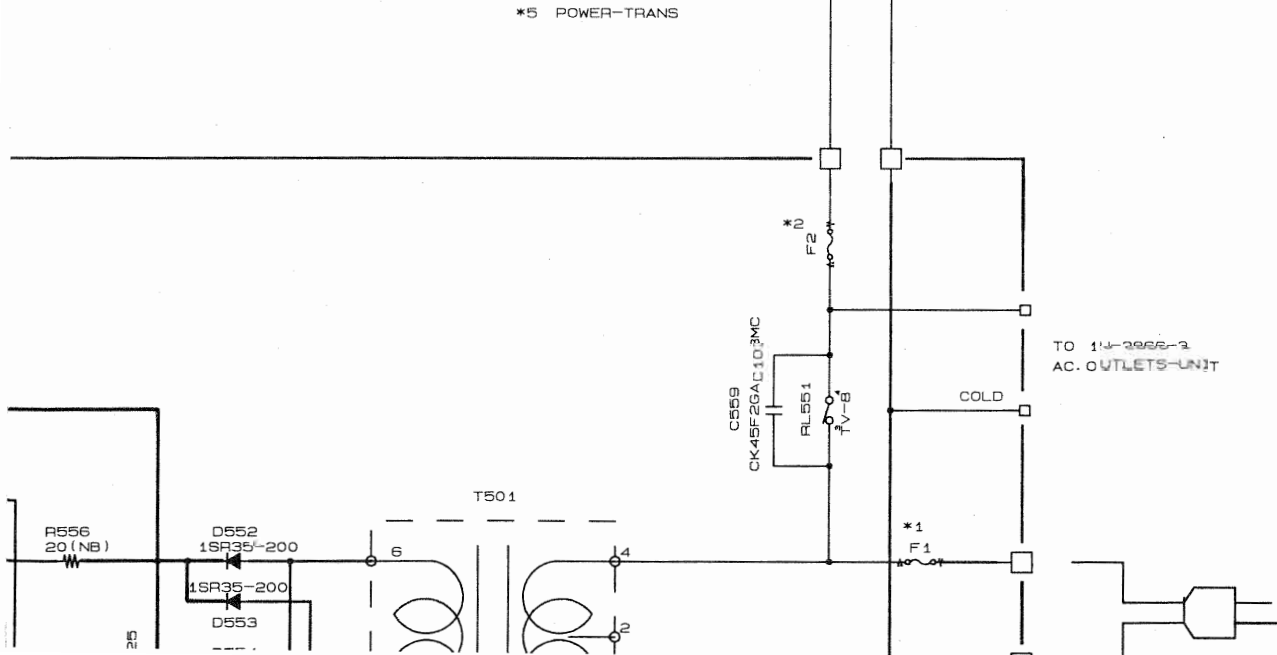
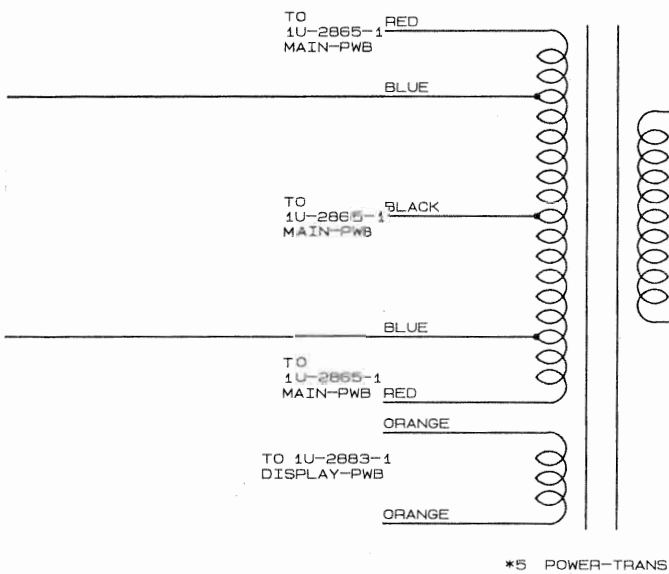
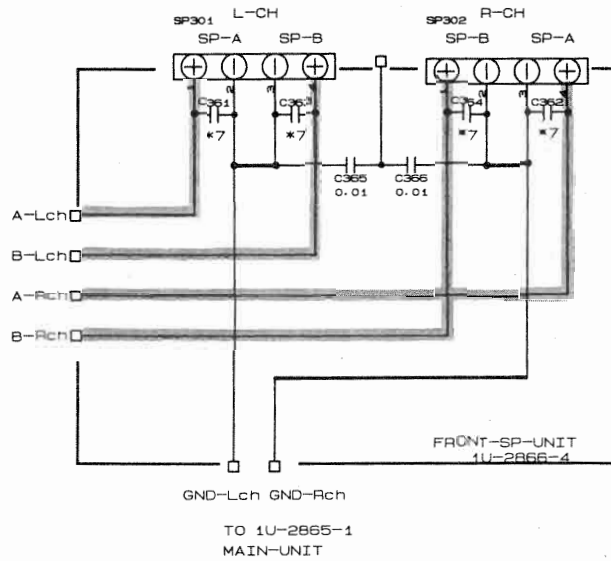
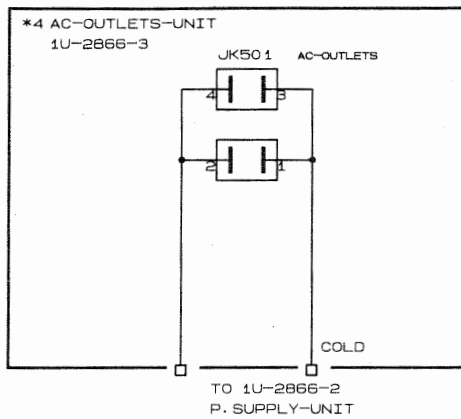
7

8



*4 AC-OUT
1U-2866





C

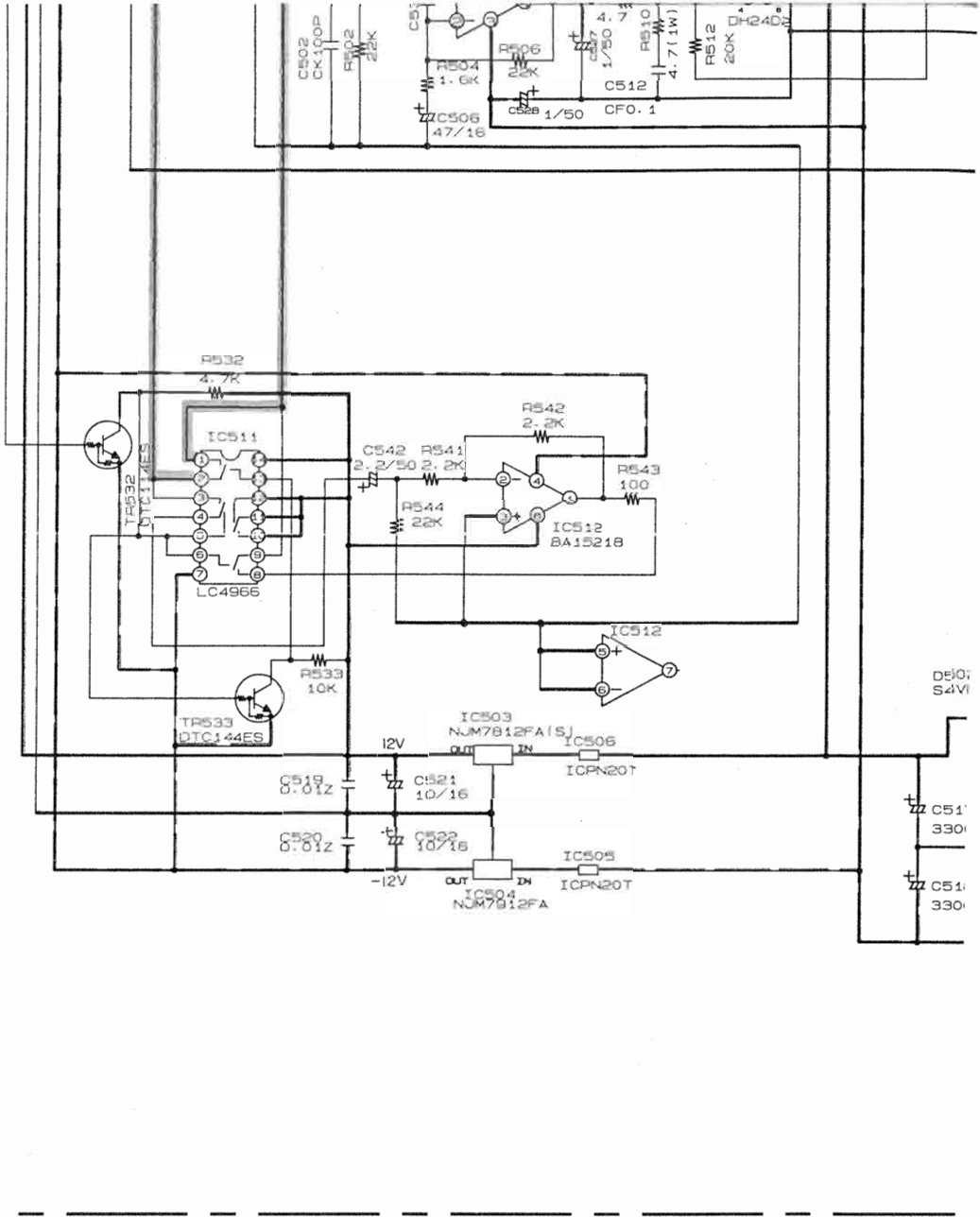
D

E

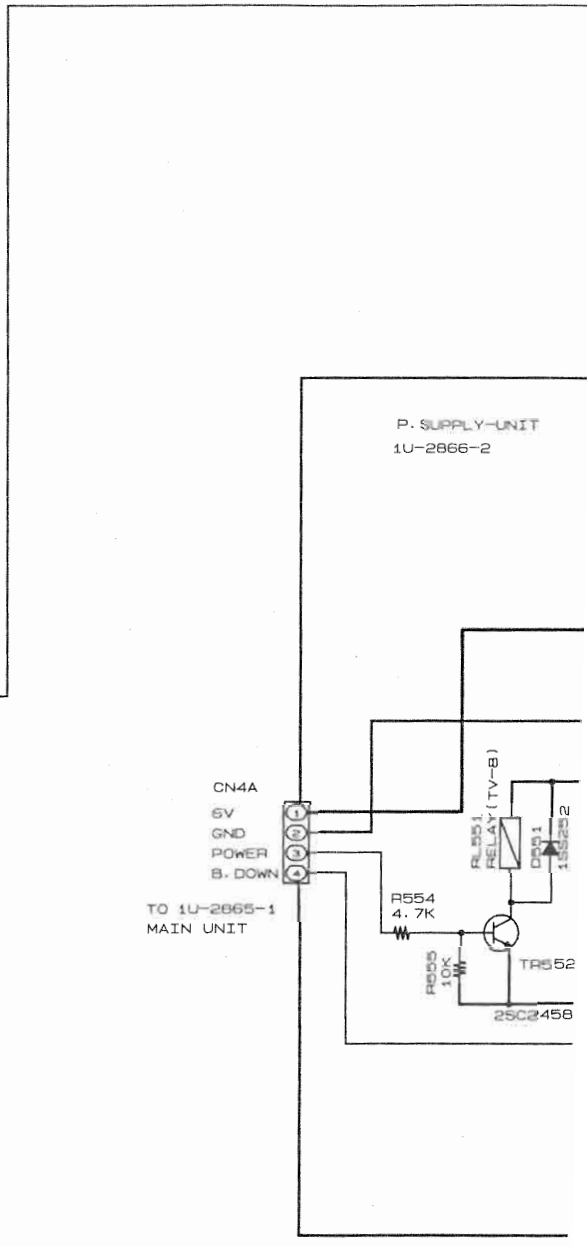
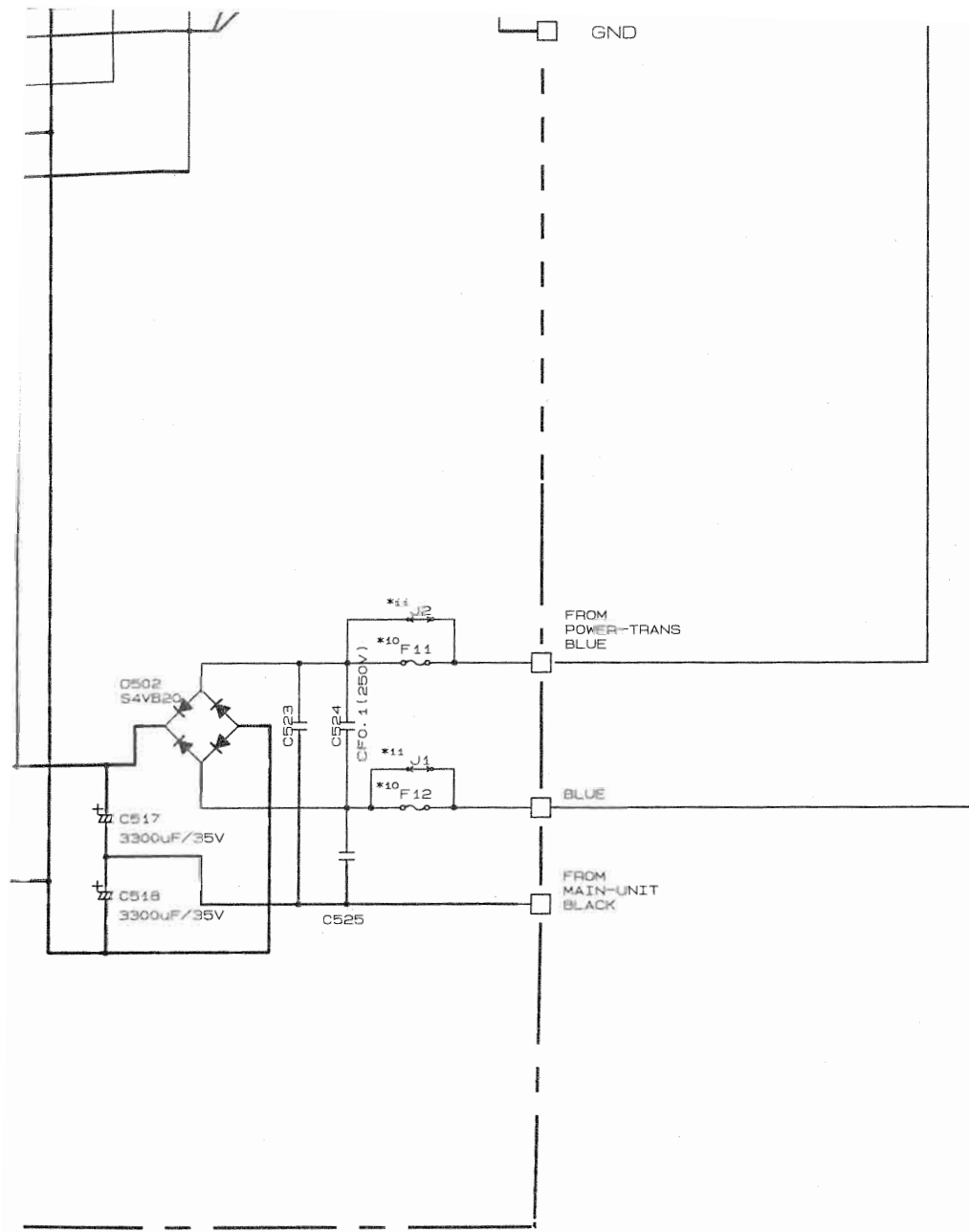
F

G

H



	#9 C53: C532	#10 F11 F12	#11 J1 J2
E3	-	5A /250V	-
E1	CK100P	-	0



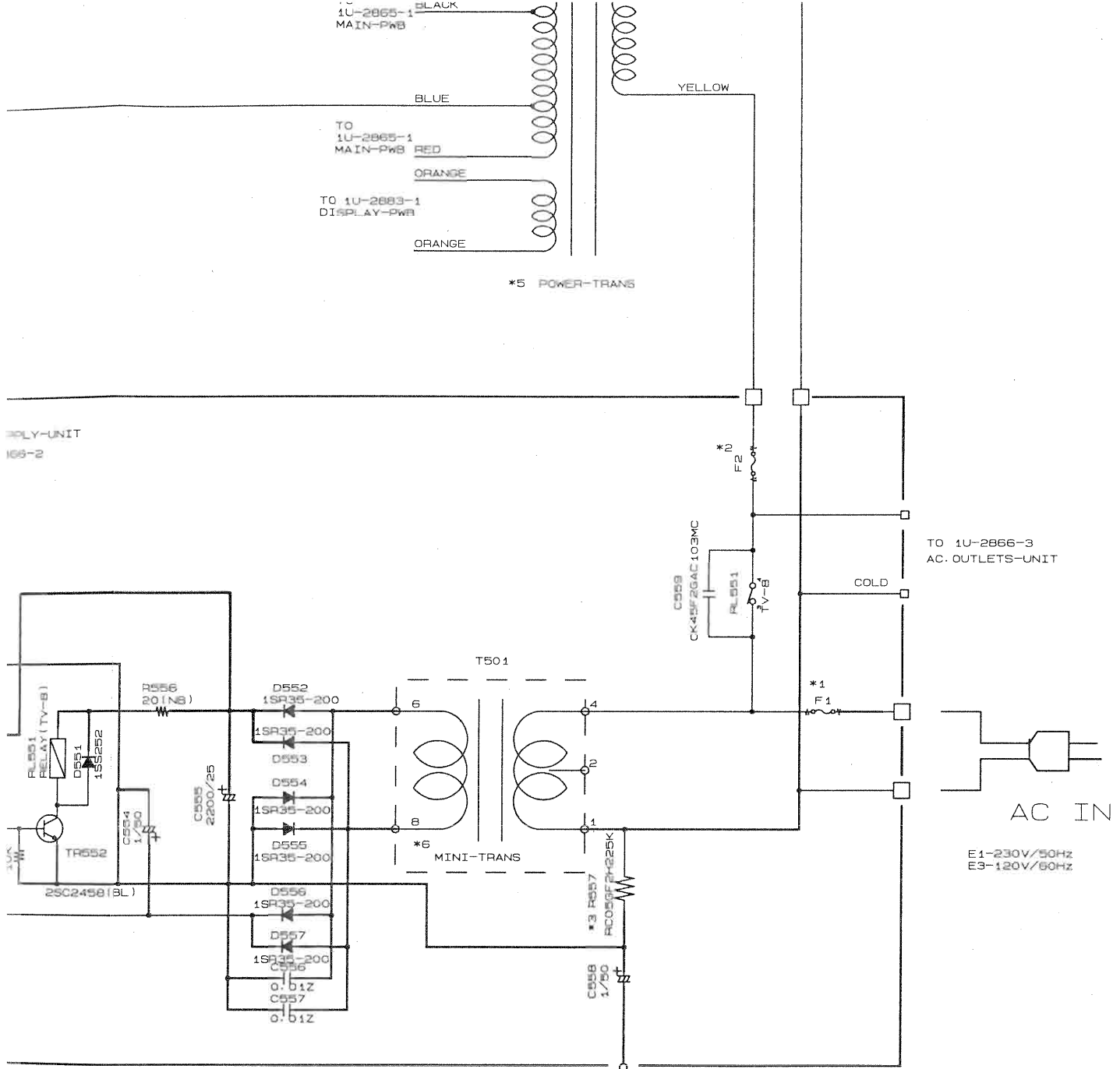
P. SUPPLY-UNIT
1U-2866-2

CN4A
6V
GND
POWER
B. DOWN
TO 1U-2865-1
MAIN UNIT

*10	*11
F11	J1
F12	J2
5A	-
/250V	-
-	0

	*1	*2
	F1	F2
E3	10A	5A
	/250V	/250V
E1	-	3.15A
		/250V

NOTES
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P
EACH VOLTAGE AND CURRENT ARE MEASURED
CONDITION.
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NOTICE.



*1	*2	*3	*4	*5	*6	*7
F1	F2	R557	AC OUTLETS	POWER TRANS	MINI-TRANS	SW361-364
10A / 250V	8A / 250V	2.2M	0	2336186007	2336073000	-
-	3.15A / 250V	-	-	2336187006	2336058012	C06800P

----- +B LINE
 - - - - - -B LINE
 _____ SIGNAL LINE

k=1,000 OHM, M=1,000,000 OHM
 F=100 FARAD, P=MICRO-MICRO FARAD
 E MEASURED AT NO SIGNAL INPUT

* TO CHANGE WITHOUT PRIOR

WARNING:
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CAUTION:
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