

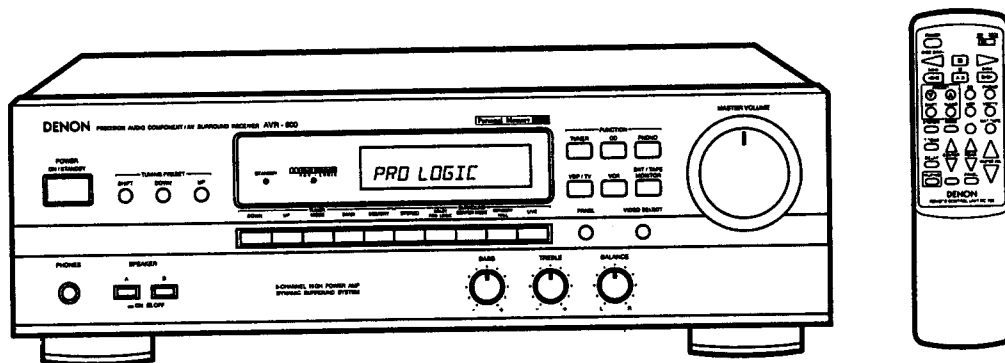


DENO-00279

DENON

Hi-Fi AV Surround Receiver

SERVICE MANUAL MODEL AVR-900 AV SURROUND RECEIVER



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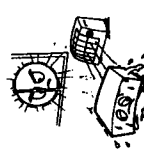



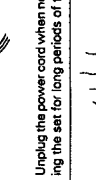
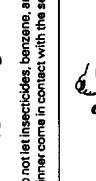
NIPPON COLUMBIA CO., LTD.

■ We greatly appreciate your purchase of the AVR-900.
 ■ To be sure you take maximum advantage of all the features the AVR-900 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.

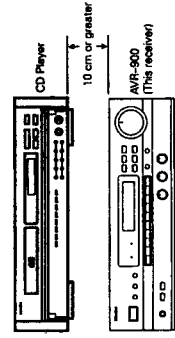
**"SERIAL NO. _____"
 PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE
 CABINET FOR FUTURE REFERENCE"**

1 INTRODUCTION

NOTE ON USE

| | | |
|---|--|---|
|  |  |  |
| <ul style="list-style-type: none"> Avoid high temperatures. Allow for sufficient heat dispersion when installed on a rack. | <ul style="list-style-type: none"> Keep the set free from moisture, water, and dust. | <ul style="list-style-type: none"> Do not let foreign objects in the set. |
|  |  |  |
| <ul style="list-style-type: none"> Handle the power cord carefully. Hold the plug when unplugging the cord. | <ul style="list-style-type: none"> Unplug the power cord when not using the set for long periods of time. | <ul style="list-style-type: none"> Do not let insecticides, benzene, and thinner come in contact with the set. |
| | | <ul style="list-style-type: none"> Never disassemble or modify the set in any way. |

A note on stacking



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

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.

If this should happen, take the following steps:

- 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.
- This problem is especially frequent when using indoor antennas. We recommend using outdoor antennas and 75 Ω/ohms coaxial cables.

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

- ① Operating instructions
- ② Remote unit (RC-195)
- ③ Warranty (for North American model only)
- ④ R6P/AA batteries
- ⑤ AM loop antenna
- ⑥ FM indoor antenna

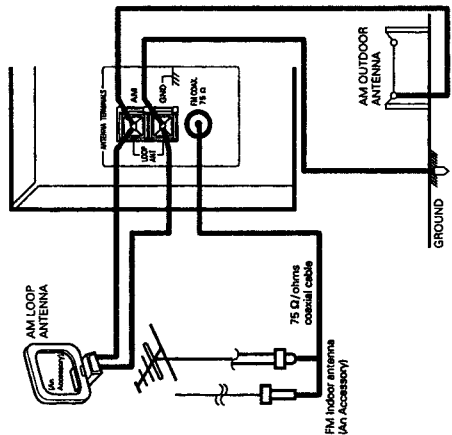
ACCESSOIRES Vérifier que les articles suivants sont inclus dans le carton en plus de l'unité principale:

- ① Mode d'emploi
- ② Télécommande (RC-195)
- ③ Garantie (uniquement pour modèle nord-américain)
- ④ Piles R6P/AA
- ⑤ Antenne-câble AM
- ⑥ Antenne intérieure FM

附件 下列附件應隨主機附送

- ① 操作說明書
- ② 遙控器 (RC-195)
- ③ 保用証 (只限北美洲機型)
- ④ R6P/AA 電池
- ⑤ AM 環形天線
- ⑥ FM 室內天線

2-4 Connecting the antenna terminals



ANTENNA INSTALLATION

- The supplied FM antenna can be used inside wooden houses for receiving local FM stations and other strong FM signals. However, it is not recommended for use in areas with a lot of metal bars or on the wall or ceiling where optimum reception is achieved. A indoor FM antenna may not consistently ensure stable reception, due to environment changes. In such cases, the indoor FM antenna should only be used temporarily until an outdoor antenna is available.
- When connecting an outdoor FM antenna, the use of 75 Ω/ohms coaxial cable (CC-2V, SC-2V) is strongly recommended.
- AM ANTENNA: An AM loop antenna even 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. When making such a connection do not disconnect the antenna from the power source.
- Add the loop antenna to obtain optimum reception. Where broadcast stations are distant and only weak signals are received, or where signals are blocked, it is best to install an outdoor AM antenna.
- This receiver has a full back-up system. When the power is turned on, the INPUT SELECTOR buttons are set to the last mode set before the power was turned off.
- When using this receiver in close proximity to video equipment, the video signal may be generated in AM broadcasts. To avoid this, when possible, or place the AM loop antenna from the antenna holder and adjust the AM loop antenna from the antenna holder and adjust it when noise is reduced. If the noise is not reduced, turn the power of the video components when listening to AM broadcasts.

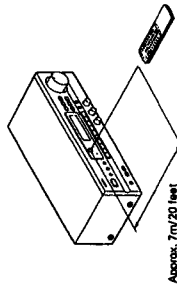
Connection of AM antennas

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



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:

- 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 operated 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.

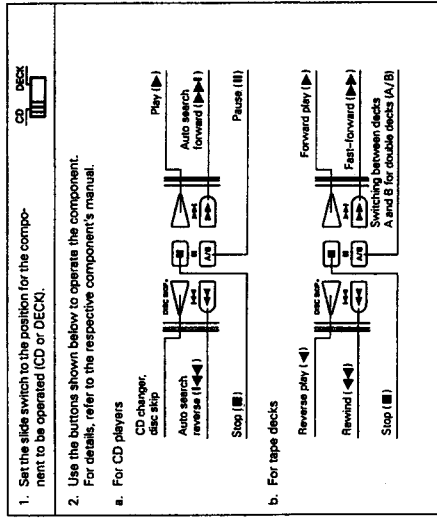
Point the remote control unit at the remote control sensor as shown on the diagram at the left.

NOTES

- Use only AA, R6P UM-3 batteries for replacement.
- Be sure the polarities 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.

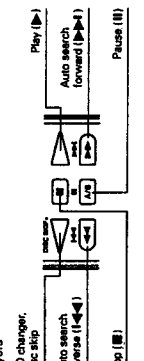
System code buttons

NOTE: 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.

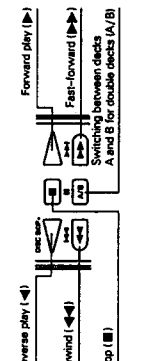


1. Set the slide switch to the position for the component to be operated (CD or DECK).
2. Use the buttons shown below to operate the component. For details, refer to the respective component's manual.

a. For CD players



b. For tape decks



4 OPERATIONS

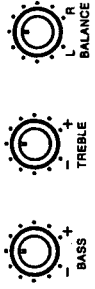
4-1 Preparations for Play Back

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

MASTER VOLUME



- 3 Set to the center position.



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

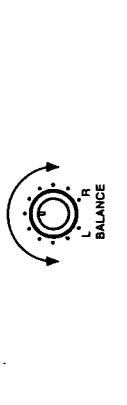


- 5 Select the front speakers. Press the speaker A or B switch to turn the speaker on.



4-2 Playing the program source (Stereo play back)

- Select the source to be played.
 - FUNCTION: TUNER, CD, VIDEO, VCR, TV
 - VIDEO: VIDEO, VCR, TV
 - STEREO: STEREO, MONITOR
- Select the STEREO mode.
 - STEREO: STEREO, MONITOR
- Adjust the MASTER VOLUME control.
 - MASTER VOLUME: MASTER VOLUME, MONITOR
- Adjust the front left/right BALANCE.
 - BALANCE: BALANCE, MONITOR



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: VIDEO SELECT, MONITOR
- * Cancelling simulcast playback
- Press the VIDEO SELECT button temporarily.
 - Select the VIDEO function.

4-4 Using the muting function

- Use this to turn off the audio output temporarily.
- Press the MUTING button.
 - MUTING: MUTING, MONITOR
- * Cancelling the MUTING mode. 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.

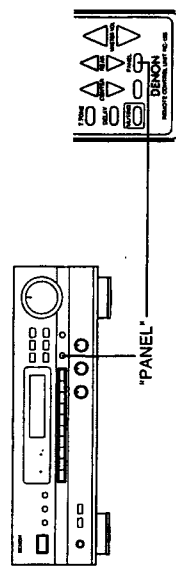
4-6 Recording the program source (Recording the source currently being monitored)

- Follow steps 1 to 3 under "Playing the program source".
- Start recording on the tape or video deck. For instructions, refer to the component's operating instructions.

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 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. |

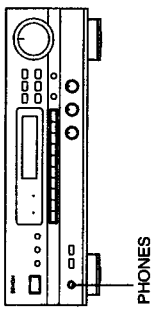
Before using the surround function

Make the following adjustments before using the surround function.

- Set the Dolby Pro Logic mode.
 - MODE: MODE, MONITOR
 - Select the center mode.
 - MODE: MODE, MONITOR
 - Adjust the center and rear levels to set the volume of the speakers to the same level.
 - LEVEL: LEVEL, MONITOR
 - Adjust the delay time and setting position as necessary.
 - DELAY: DELAY, MONITOR
 - Turn the test tone off.
 - T.TONE: T.TONE, MONITOR
- Test tones are produced from the speakers in the order shown below, at 4 second intervals for the first two cycles, 2 second intervals thereafter.
- Test tones: L → R → C → RR → S

4-5 Listen with headphones

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



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 depth of the sound.

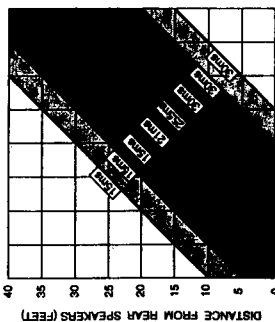
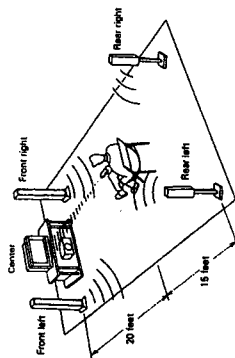
Wide mode: This mode is suited for an arrangement in which the center channel speaker is of the same grade as the left and right speakers. The entire sound band from low region to high is output to the center channel to provide an exciting sound field for your enjoyment.

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.



- PREFERRED
- ACCEPTABLE
- NOT RECOMMENDED

USABLE SPEAKER PLACEMENT RANGE WITH DELAY TIME

Personal Memory Plus function . . . for EASY TO USE

The AVR-900 automatically stores the surround mode adding 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.



2 If necessary, adjust the levels.



3 Adjust the parameters to the desired settings.



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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 ranges.

| | NORMAL | PHANTOM | WIDE | CONCERT HALL | LIVE |
|--------------|----------------|---------|----------------|--------------|----------------|
| OUTPUT | ○ | ○ | ○ | ○ | ○ |
| CENTER LEVEL | ○ 10 -- 24dB | x | ○ 10 -- 24dB | x | ○ 10 -- 24dB |
| REAR LEVEL | ○ 10 -- 24dB | ○ | ○ 10 -- 24dB | ○ | ○ 10 -- 24dB |
| CENTER MODE | ○ | ○ | ○ | △ *1 | ○ |
| TEST TONE | ○ | ○ | ○ | x | x |
| DELAY TIME | ○ (15 -- 30ms) | ○ | ○ (15 -- 30ms) | ○ | ○ (10 -- 32ms) |

*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.

○: Operation possible △: Operation possible x: Operation not possible

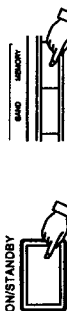
The sound may be distorted for some sources if the rear level is raised during surround playback. If this happens, lower the rear level.

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.



1 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.

- 2 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 A8, B1 to B8, C1 to C8, D1 to D8 and E1 to E8, 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).

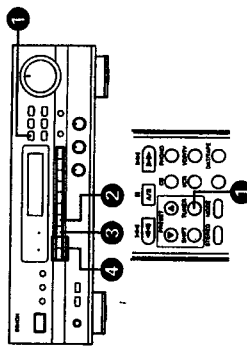
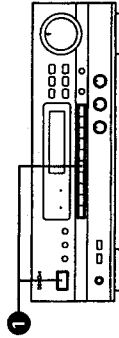


- 3 Press the MODE button to set the auto tuning mode.



"AUTO" appears on the display.

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



- 4 Press the TUNING UP or DOWN button.



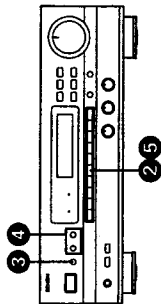
Automatic searching begins, then stops when a station is tuned in.

5-3 Manual tuning

- 1. Press the input function to "TUNER".
 - 2. Watching the display, press the BAND button to select the desired band (AM or FM).
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 frequencies, 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 mono 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).

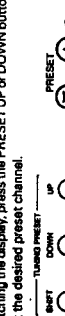
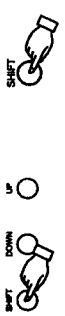


- 4. Press the PRESET UP or DOWN button to select the desired preset channel (1 to 8).



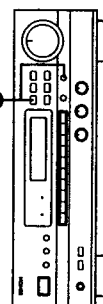
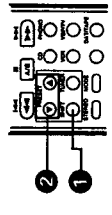
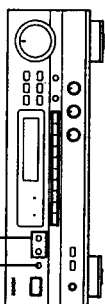
5-5 Recalling preset stations

- 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.



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 reasonable 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 VIDEO SELECT button, and plug the power cord into the outlet.
 3. Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons.
 4. Switch on the unit and the microprocessor will be initialized.



7 LAST FUNCTION MEMORY

- 1. This receiver is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off.
- 2. This function eliminates the need to perform complicated resettings when the power is switched on.
- 3. 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. Are 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 insertion of the power cord plug. | 6 |
| DISPLAY lit but sound not produced. | Speaker cords not securely connected. Improper 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. Once the set is 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 cards | Connect securely. Connect securely. | 6, 7 6, 7 |
| Positions of instruments reversed during stereo playback. | Reverse connections of left and right speakers or left and right input/output cords. | Adjust left and right connections. | 6, 7 |
| Sound seems distorted. | Rear level is too high. | Set the rear 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 |
| 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 equipped with insulators, use audio insulators (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. | MC 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. ⊕ and ⊖ of battery inserted in reverse. | Replace with new batteries. Move back. Remove obstacle. Press the proper button. Insert batteries properly. | 8, 9 8, 9 8, 9 8, 9 8, 9 |

9 SPECIFICATIONS

- Audio Section (Power amplifier)**

| | |
|--|--|
| Rated output: (All properties shown are only for the power amplifier stage.) | FRONT (main 2ch driven) 60 W + 60 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08% THD) 90 W + 90 W (6 Ω/ohms, EIAJ) CENTER (center 1ch driven) 60 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08% THD) 90 W (6 Ω/ohms, EIAJ) REAR (rear 2ch driven) 15 W + 15 W (8 Ω/ohms, 1 kHz with 0.3% THD) 25 W + 25 W (6 Ω/ohms, EIAJ) |
|--|--|
- Output terminals:**

| | |
|--------------------------|--|
| Output terminals: | Front: 6 to 16 Ω/ohms (for North America model) 8 to 16 Ω/ohms (for Asia model) 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: Frequency response: Tone control range: | 150 mV/47 kΩ/kohms PHONO (MM): 2.5 mV/47 kΩ/kohms 10 Hz to 50 kHz: ±3 dB BASS: ±10 dB at 100 Hz TREBLE: ±10 dB at 10 kHz |
| Signal-to-noise ratio: Phono equalizer (PHONO input – REC OUT) | 92 dB (STEREO) ±1 dB (20 Hz to 20 kHz) |
| RIAA deviation: Signal-to-noise ratio: Rated output / Maximum output: Distortion factor: | 74 dB (A weighting, with 5 mV input) 150 mV / 8 V 0.03% (1 kHz, 1 V) |
- Tuner Section**

| | | |
|--|---|---|
| Receiving Range: Usable Sensitivity: 50 dB Quieting Sensitivity: Signal to Noise Ratio (IHF-A): Total Harmonic Distortion (at 1 kHz): | [FM] (note: μV at 75 Ω/ohms, 0 dBf = 1×10^{-15} W) 87.5 MHz ~ 107.9 MHz (for North America model) 87.50 MHz ~ 108.00 MHz (for Asia and Taiwan R.O.C. models) 1.0 μV (11.2 dBf) MONO 1.6 μV (15.3 dBf) STEREO 23 μV (38.5 dBf) MONO 80 dB STEREO 75 dB MONO 0.15% STEREO 0.3% | [AM] 520 kHz ~ 1710 kHz (for North America model) 522 kHz ~ 1611 kHz (for Asia and Taiwan R.O.C. models) 18 μV 50 dB |
|--|---|---|
- Video Section**

| | |
|---|---|
| Standard video jacks Input and output level / impedance: Frequency response: | 1 Vp-p/75 Ω/ohms 2 Hz to 8 MHz +0, -3 dB |
|---|---|
- General**

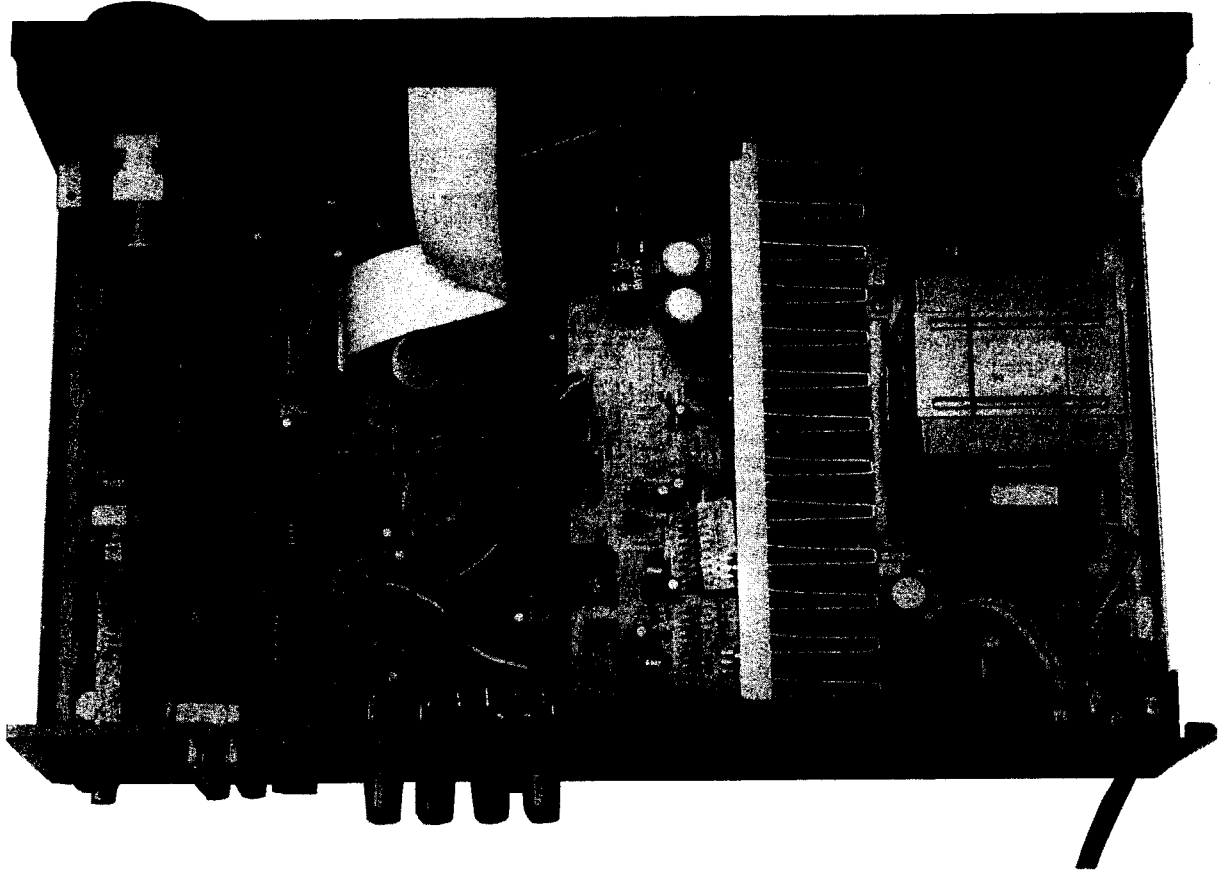
| | |
|--|--|
| Power supply: Power consumption: Maximum external dimensions: Weight: | AC 120 V, 60 Hz (for North America and Taiwan R.O.C. models) AC 230 V, 50 Hz (for Asia model) 4.0 A (for North America model) 200 W (for Asia model) 434 (W) × 142 (H) × 303 (D) mm (17-3/32" × 5-19/32" × 11-15/16") 7.7 kg (17 lbs) |
|--|--|
- Remote control unit**

| | |
|--------------------------------------|--|
| System remote control RC-195: | Total buttons: 28 DENON system code CD player: 6 buttons } (SWITCHED) Cassette deck: 6 buttons } AVR-900 fixed codes: 22 buttons Batteries: R6P/AA Type (two batteries) External dimensions: 51 (W) × 175 (H) × 18.5 (D) mm (2" × 6-57/64" × 47/64") Weight: 100 g (Approx. 3.5 oz) (including batteries) |
|--------------------------------------|--|

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

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.

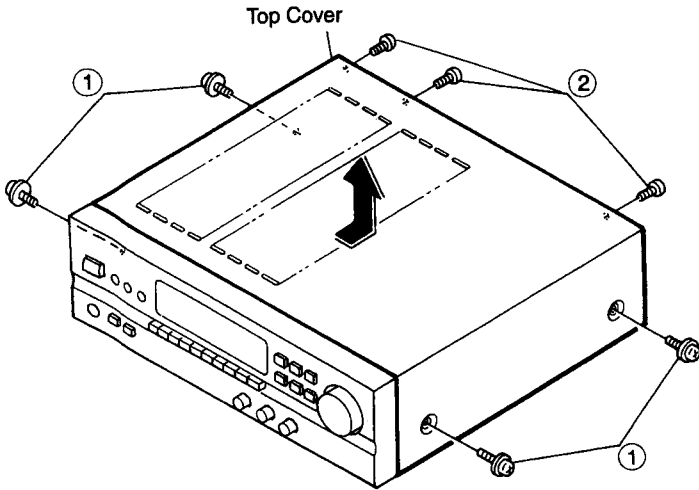


DISASSEMBLY

(To reassemble reverse disassembly)

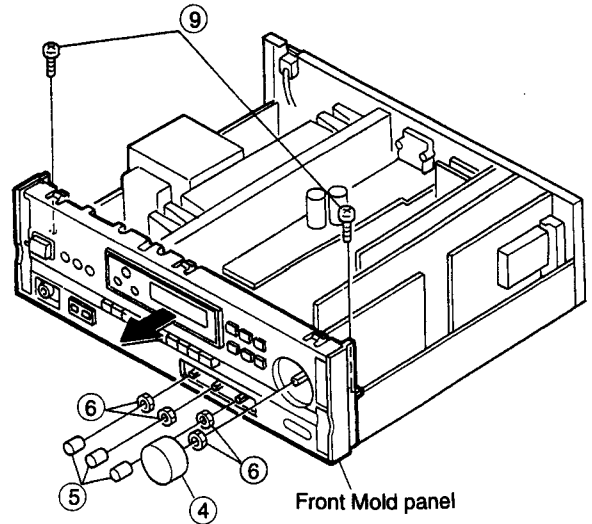
1. Top Cover

Remove 4 screws ① and 3 screws ② .



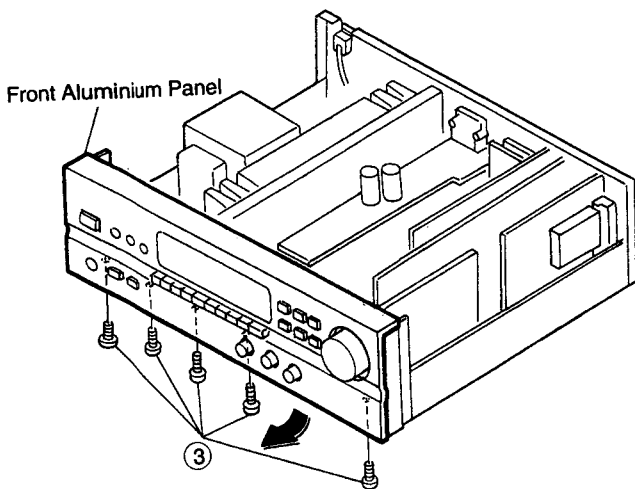
3. Front Mold Panel

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



2. Front Aluminium Panel

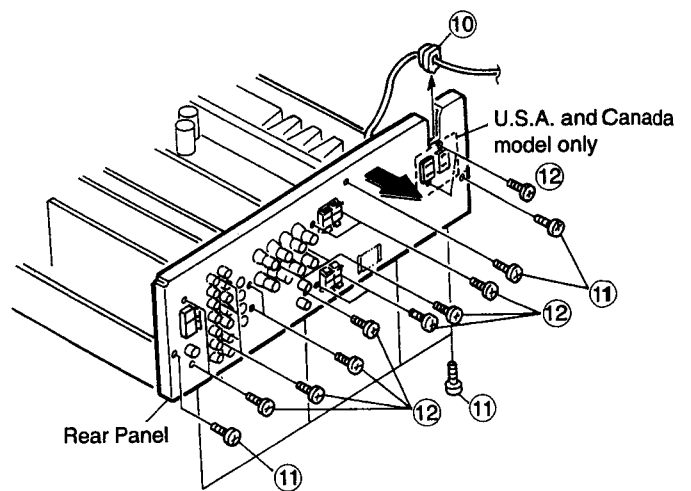
Remove 5 screws ③ .



4. Rear Panel

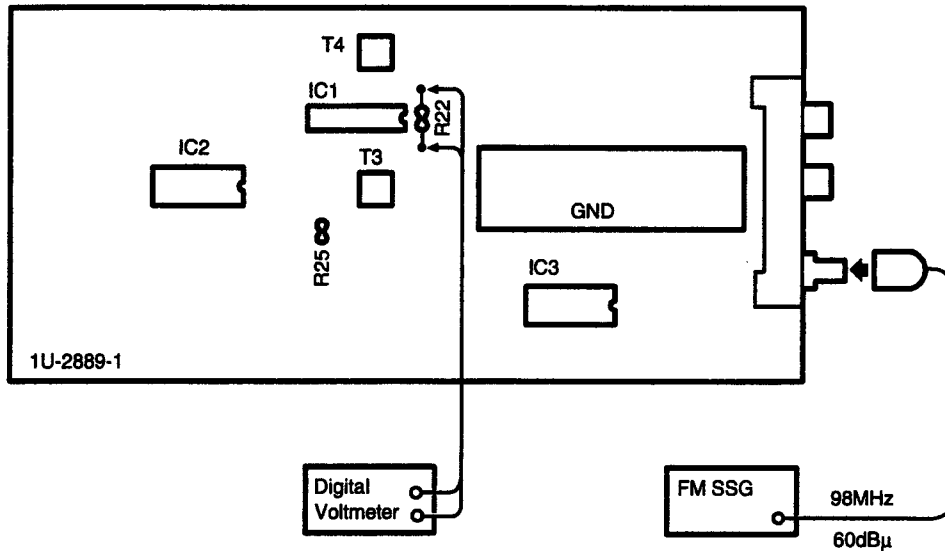
- (1) Disconnect cord bush ⑩ .
- (2) Remove 7 screws ⑪ , and 17 screws ⑫ .

* 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 VIDEO SELECT.
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

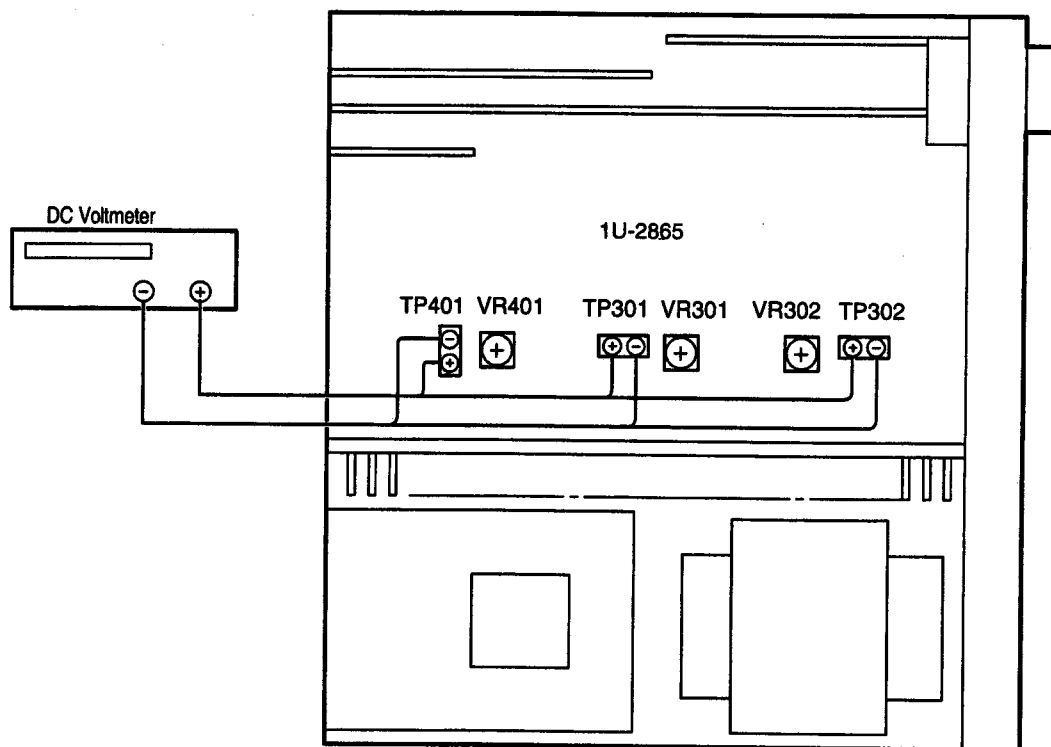
- POWER (Power source switch) → ON
- MODE (Mode button) → STEREO
- FUNCTION (Function button) → CD
- VOLUME (Volume control) → 0: fully counterclockwise (⚙ min.)
- BASS, TREBLE (Tone control) → 0: (Controls to center)
- SPEAKERS (Speaker terminal) → No load (Do not connect speaker, dummy resistor, etc.)

Adjustment

- (1) Remove top cover and set VR401, VR301 and VR302 of 1U-2865-1 or 1U-2865A-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 (⚙) 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.

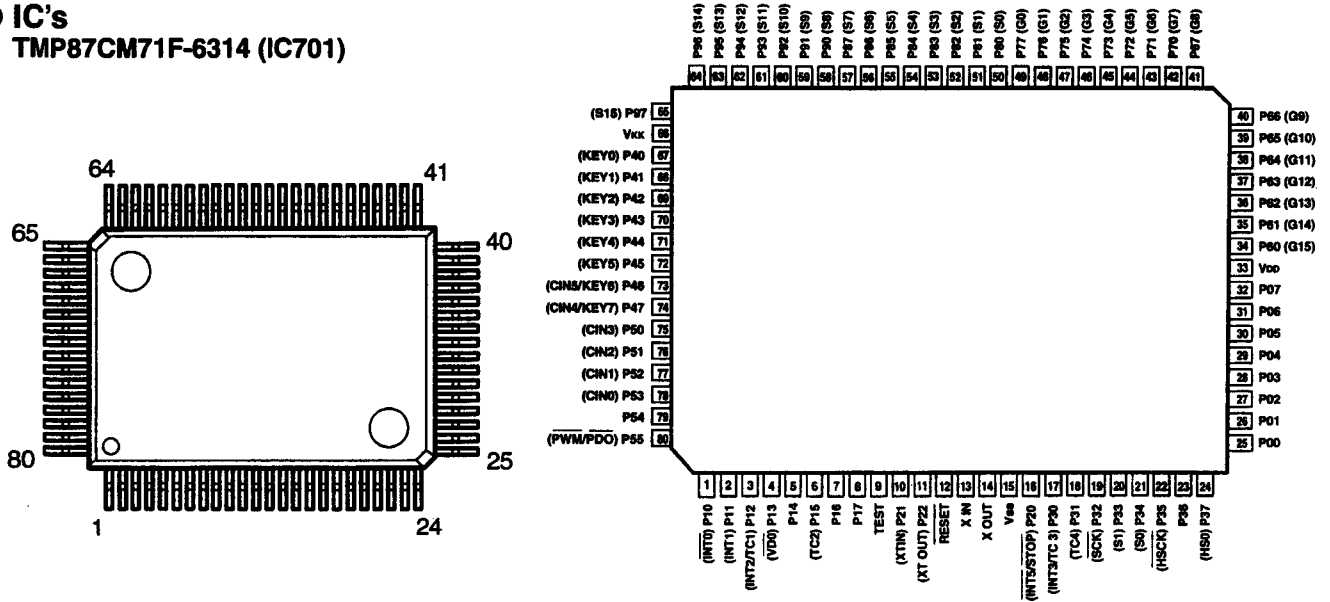
1U-2865-1 Main Unit (Component Side)

| | |
|--------------------|----------|
| | UNIT No. |
| U.S.A. and CANADA | 1U-2865 |
| EUROPE, U.K., Asia | 1U-2865A |



SEMICONDUCTORS

● IC's TMP87CM71F-6314 (IC701)



TMP87CM71F-6314 Terminal Function

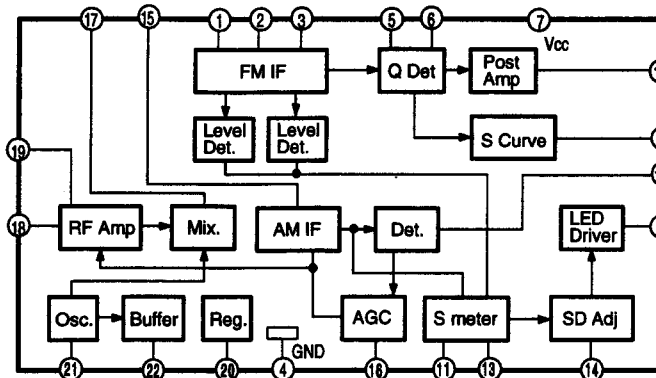
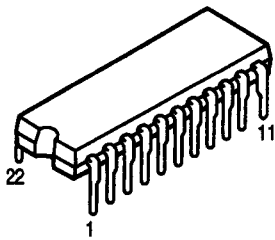
| Pin No. | Symbol | I/O | Type | Op | Det | Res | Ini | Function |
|---------|------------|-----|------|-----|-----|-----|-----|---|
| 1 | STOP | I | — | Eu | Lv | Z | — | Detect power stop ("L" at power stop) |
| 2 | PROTECTION | I | — | Eu | E&L | Z | — | Protection input ("H" at protection) |
| 3 | 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 | | O | — | — | — | Z | L | Fixed output on "L" |
| 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 | RDS START | I | — | Eu | Ed | Z | — | RDS data, Start signal input (LC704)* |
| 17 | REMOCON | I | — | Eu | E&L | Z | — | Remote control signal input |
| 18 | STEREO | I | — | Eu | — | Z | L | "L" at TUNER stereo receive |
| 19 | RDS. CK | I | — | Eu | S | Z | — | RDS clock input (LC7074)* |
| 20 | RDS. DATA | I | — | Eu | S | Z | — | RDS data input (LC7074)* |
| 21 | RDS. RESET | O | N | Eu | — | Z | L | RDS reset signal output (LC7074)* |
| 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 | LC7822 (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 (BA6208S) |

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

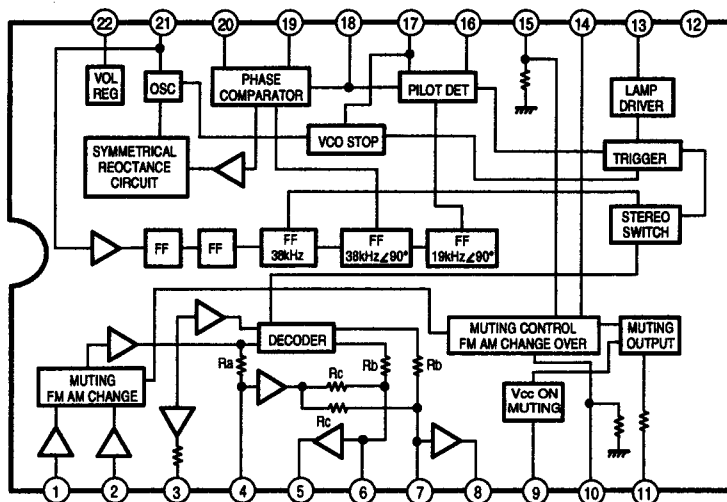
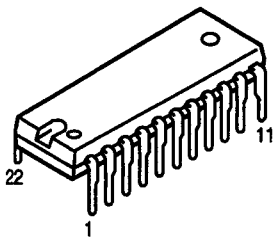
| Pin No. | Symbol | I/O | Type | Op | Det | Res | Ini | Function |
|---------|-----------|-----|------|----|-----|-----|-----|--|
| 31 | VOL UP | O | C | — | — | Z | L | Electrically-driven volume control output (BA6208S) |
| 32 | SP-FRONT | O | C | Ed | — | Z | H | Front speaker relay control output |
| 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 | | O | N | Eu | — | Z | H | Fixed output on "H" |

* port is in active software pull down mode.

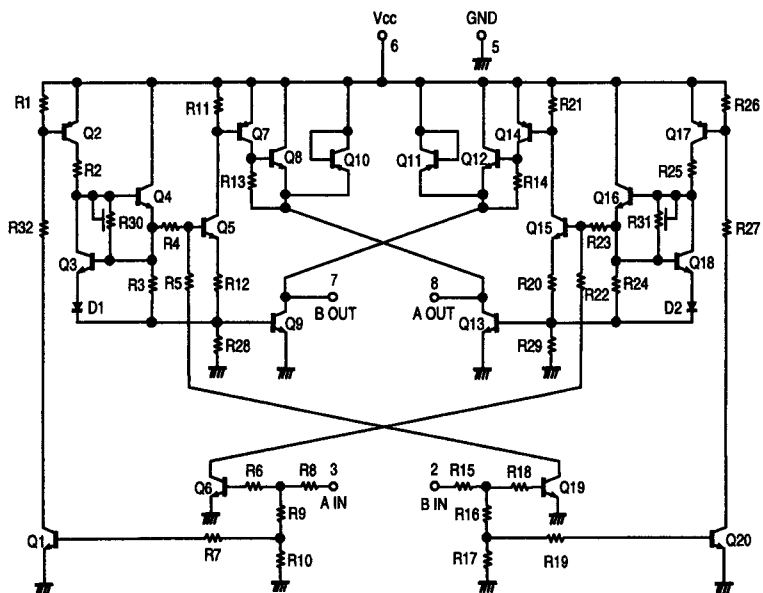
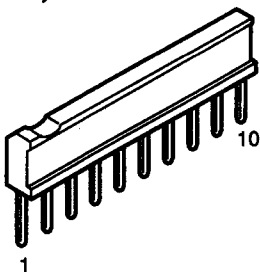
LA1265 (S)
(IC001)



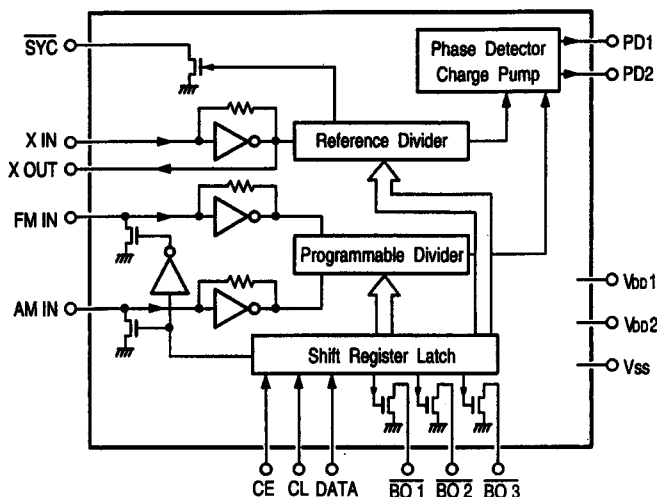
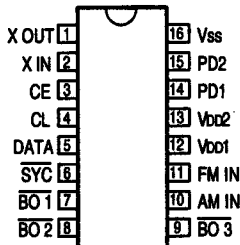
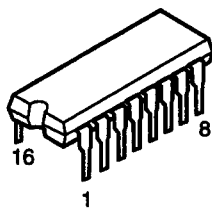
LA3401
(IC002)



BA6208S
(IC264)



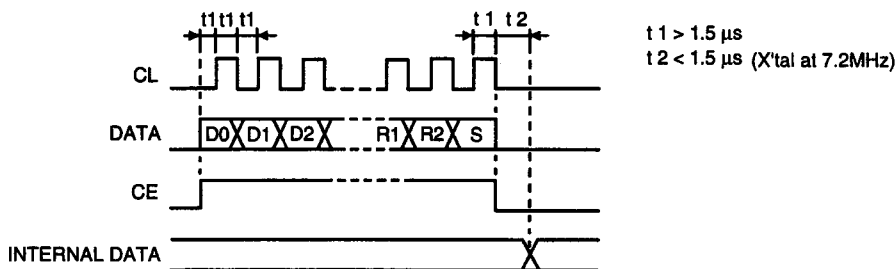
LM7001 (IC003)



Terminal Description

- SYC : Clock for controller (400 kHz).
- XIN, XOUT : X'tal OSC (7.2 MHz).
- FMIN, AMIN : Station oscillation signal input.
- CE, CL, DATA : Data input.
- BO1, BO2, BO3 : Band data output. 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

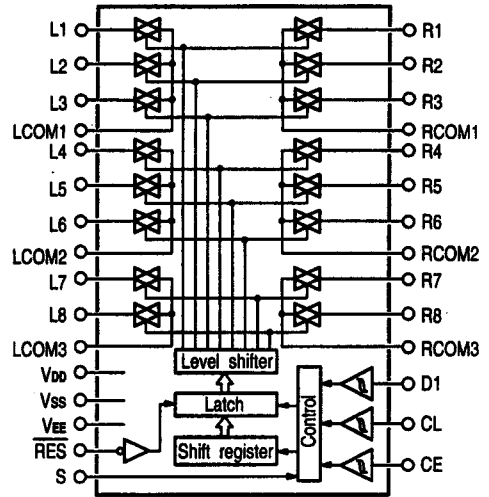
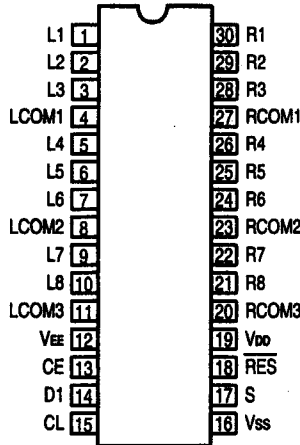
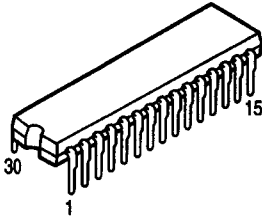
LSB MSB

x x x x 0 0 0 0 0 1 0 1 1 1 → FMIN Frequency dividend nnumber = 928

LSB MBS

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

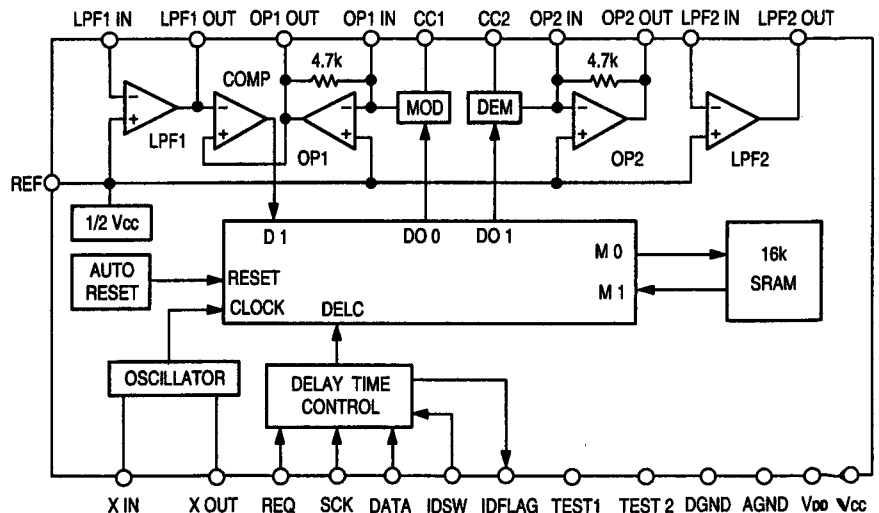
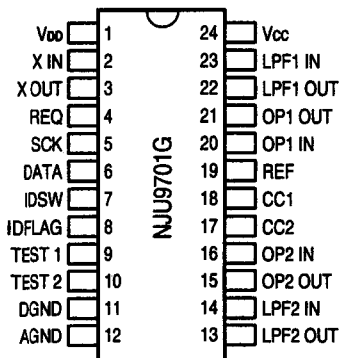
LC7822 (IC102)



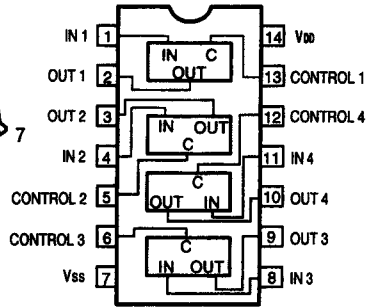
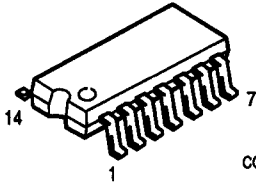
LC7822 Terminal Function

| 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. | | | | | | | | | | | | | | | | | | | | | |

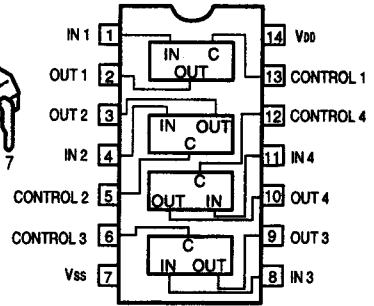
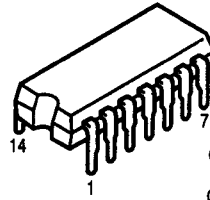
NJU9701G (IC202)



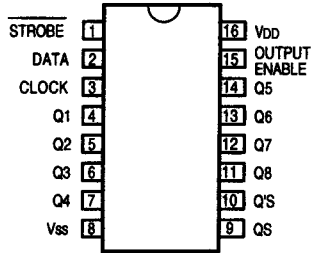
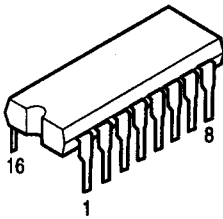
BU4066BCF
(IC203, 205)



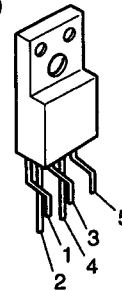
BU4066BC
(IC601)



μPD4094BC
(IC913, 914)

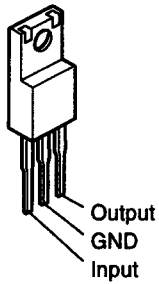


SI-18751
(IC501, 502)

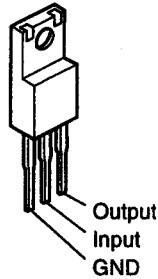


- 1: +IN
- 2: - IN
- 5: -VEE
- 4: OUTPUT
- 5: +Vcc

NJM7806FA (S) (IC551)
NJM7812FA (S) (IC503)

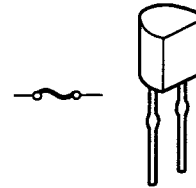


NJM7912FA
(IC504)



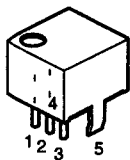
● **IC PROTECTORS**

ICP-N15 (IC552)
ICP-N20 (IC505, 506)

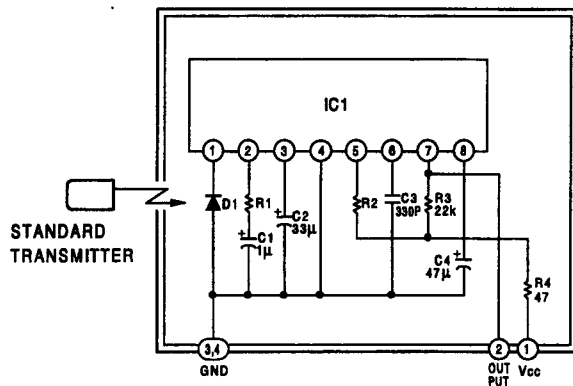


● **OTHERS**

SBX1610-52 (Remote Control Sensor)



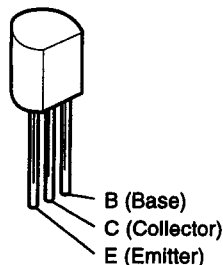
- 1. Vcc
- 2. Output
- 3. GND
- 4. Case Fin
- 5. Case Fin



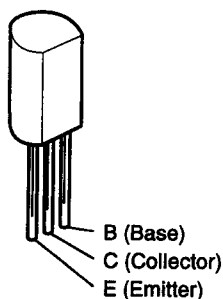
- IC1 : CX20106A Chip
- D1 : PIN Photo Diode Chip
- C1, C2, C4 : Aluminum Electrolytic Capacitor
- C3 : SL Characteristic ±5%
- R1 : Gain Adjuster
- R2 : fo Adjuster ±1% USE
- R3, R4 : ±5%

● TRANSISTORS

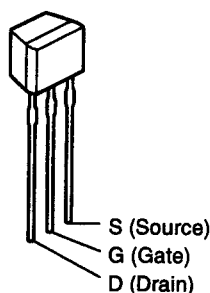
2SA970 (BL)
 2SA988 (E/F)
 2SC1015 (GR)
 2SC1815 (Y),(BL)
 2SC1841 (E/F)
 2SC2058 (Q)
 2SC2878 (A/B)



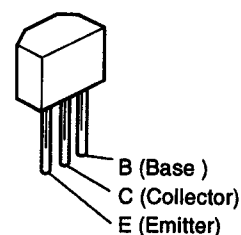
2SB647A (C)
 2SB1041 (R)
 2SD667A (C)
 2SD1292 (R)



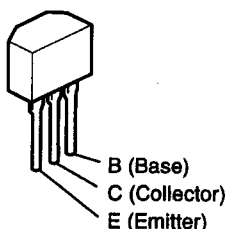
2SK365 (BL/RG)
 (FET)



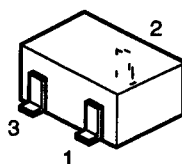
2SA933S (S)
 2SC1740S (S)



DTA114ES
 DTA114TS
 DTA143ES
 DTC114ES
 DTC143ES
 DTC144TS
 DTC323TS

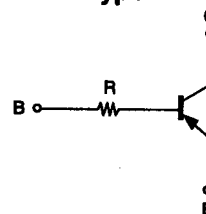


DTA144EK
 DTC143EK
 DTC144EK



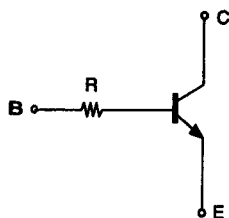
1: GND/Emitter
 2: Out/Collector
 3: In/Base

PNP Type



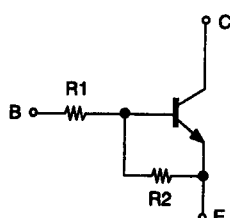
| | |
|----------|--------|
| | R |
| DTA114TS | 10kohm |

NPN Type



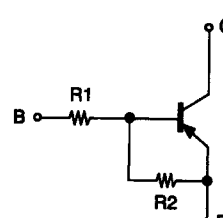
| | |
|----------|---------|
| | R |
| DTC144TS | 4.7kohm |
| DTC323TS | 2.2kohm |

NPN Type



| | | |
|----------|---------|---------|
| | R1 | R2 |
| DTC114ES | 10kohm | 10kohm |
| DTC143ES | 4.7kohm | 4.7kohm |
| DTC143EK | 4.7kohm | 4.7kohm |
| DTC144EK | 47kohm | 47kohm |

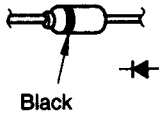
PNP Type



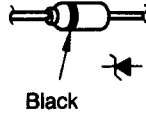
| | | |
|----------|---------|---------|
| | R1 | R2 |
| DTA114ES | 10kohm | 10kohm |
| DTA143ES | 4.7kohm | 4.7kohm |
| DTA144EK | 47kohm | 47kohm |

● DIODES (included LED)

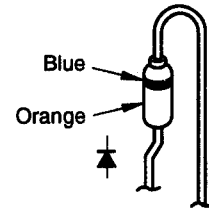
1SS252
1S2471



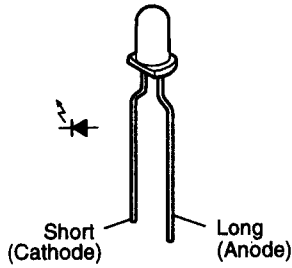
MTZJ3.3A MTZJ8.2B
MTZJ6.2A MTZ27D
MTZJ7.5A



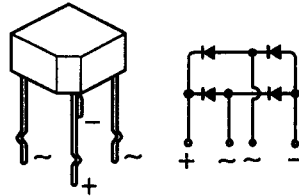
1SR35-200A



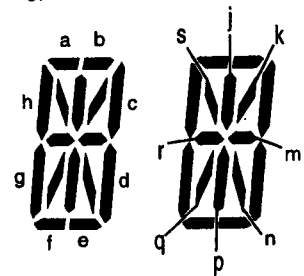
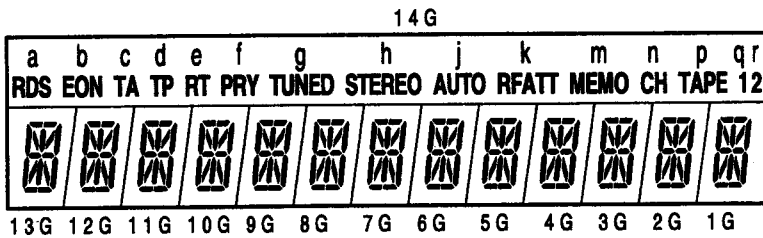
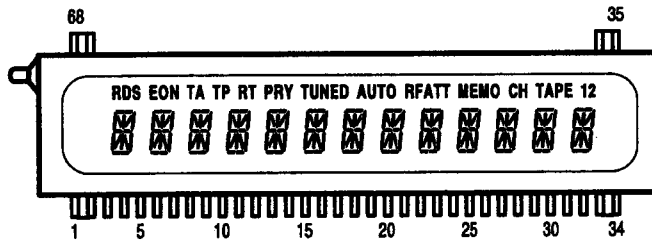
SEL1210S (Red)



S4VB20



FL (FIP14AM7R)
(FL701)



TERMIAL 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 | 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 | n | m | k | j | h | g | f | e | d | c | b | | | |

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 | |
| CC : 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 P.W.B. name | U.S.A. & Canada | Europe | Multi-Voltage | U.K. |
|------------------------|-----------------|----------|---------------|----------|
| Main amp | 1U-2865 | | 1U-2865A | |
| Rear amp | 1U-2866 | | 1U-2866A | |
| Input & Surround | 1U-2867 | | 1U-2867A | |
| FLD & Video | 1U-2883 | | 1U-2883A | |
| Tuner & Volume | 1U-2889 | 1U-2889A | 1U-2889B | 1U-2889A |

PARTS LIST OF P. W. BOARD

1U-2865 MAIN AMP P.W.B. UNIT ASS'Y

for U.S.A. and Canada models

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|-----------------------------|--------------|--------------------------------|-------------------|-----------------------------|--------------|---------------------------|-------------------|
| SEMICONDUCTORS GROUP | | | | SEMICONDUCTORS GROUP | | | |
| IC451 | 263 0565 007 | IC BA15218 | | D352 | 276 0616 907 | Diode 1SS252 | |
| IC551 | 263 0793 002 | IC NJM7806FA(S) | | D401 | 276 0616 907 | Diode 1SS252 | |
| IC552 | 268 0073 905 | IC ICP-N15 | | D403 | 276 0616 907 | Diode 1SS252 | |
| IC913,914 | 262 1295 001 | IC UPD4094BC | | D405 | 276 0616 907 | Diode 1SS252 | |
| TR301~304 | 271 0094 919 | Transistor 2SA970(BL) | | D407 | 276 0619 904 | Diode 1S2471 | |
| TR305,306 | 271 0131 924 | Transistor 2SA988(E/F) | | D409 | 276 0619 904 | Diode 1S2471 | |
| TR307~312 | 273 0235 923 | Transistor 2SC1841(E/F) | | D411 | 276 0616 907 | Diode 1SS252 | |
| TR313,314 | 273 0198 002 | Transistor 2SC1815(Y) | | D441 | 276 0616 907 | Diode 1SS252 | |
| TR315,316 | 274 0060 900 | Transistor 2SD667A(C) | | D481,482 | 276 0616 907 | Diode 1SS252 | |
| TR317,318 | 271 0053 908 | Transistor 2SB647A(C) | | D801 | 276 0553 905 | Diode 1SR35-200A | |
| TR323,324 | 273 0235 923 | Transistor 2SC1841(E/F) | | D802~804 | 276 0616 907 | Diode 1SS252 | |
| TR325 | 271 0131 924 | Transistor 2SA988(E/F) | | D912 | 276 0616 907 | Diode 1SS252 | |
| TR351,352 | 271 0131 924 | Transistor 2SA988(E/F) | | ZD351 | 276 0632 907 | Zener diode MTZJ27D | |
| TR353 | 273 0303 910 | Transistor 2SC1740S(S) | | ZD551 | 276 0644 911 | Zener diode MTZJ7.5A | |
| TR354 | 271 0192 905 | Transistor 2SA933S(S) | | ZD801 | 276 0634 905 | Zener diode MTZJ3.3A | |
| TR355 | 272 0131 901 | Transistor 2SB1041(R) | | RESISTORS GROUP | | | |
| TR401 | 271 0094 919 | Transistor 2SA970(BL) | | VR301,302 | 211 6064 048 | Semi fixed resistor 5kohm | V06PB502 |
| TR403 | 271 0094 919 | Transistor 2SA970(BL) | | VR401 | 211 6064 048 | Semi fixed resistor 5kohm | V06PB502 |
| TR405 | 271 0131 924 | Transistor 2SA988(E/F) | | VR451 | 211 0798 103 | Variable resistor 100kohm | V14V20FW104K |
| TR407 | 273 0235 923 | Transistor 2SC1841(E/F) | | VR452 | 211 0797 117 | Variable resistor 30kohm | V14V20FC303K |
| TR409 | 273 0235 923 | Transistor 2SC1841(E/F) | | VR453 | 211 0797 133 | Variable resistor 10kohm | V14V20FC103K |
| TR411 | 273 0235 923 | Transistor 2SC1841(E/F) | | △R315~318 | 241 2380 963 | Carbon 2.2kohm 1/4W | RD14B2E22JNBS |
| TR413 | 273 0198 002 | Transistor 2SC1815(Y) | | △R319,320 | 241 2315 967 | Carbon 68ohm 1/4W | RD14B2E68JGFRS |
| TR415 | 274 0060 900 | Transistor 2SD667A(C) | | △R321~324 | 241 2377 976 | Carbon 130ohm 1/4W | RD14B2E13JNBS |
| TR417 | 271 0053 908 | Transistor 2SB647A(C) | | △R331~332 | 241 2378 920 | Carbon 220ohm 1/4W | RD14B2E22JNBS |
| TR423 | 273 0235 923 | Transistor 2SC1841(E/F) | | △R333~340 | 244 2043 982 | Metallic 0.22ohm 1W | RS14B3AR22JNBS(S) |
| TR441 | 273 0253 918 | Transistor 2SC2878(A/B) | | △R345,346 | 244 2051 987 | Metallic 4.7ohm 1W | RS14B3A47JNBS(S) |
| TR442 | 269 0022 904 | Transistor DTA143ES(4.7k-4.7k) | | △R371~374 | 244 2043 982 | Metallic 0.22ohm 1W | RS14B3AR22JNBS(S) |
| TR443 | 269 0018 905 | Transistor DTC143ES(4.7k-4.7k) | | △R384 | 241 2387 940 | Carbon 4.7ohm 1/4W | RD14B2E47JNBS |
| TR481~483 | 273 0303 910 | Transistor 2SC1740S(S) | Built in resistor | △R408,409 | 241 2380 963 | Carbon 2.2kohm 1/4W | RD14B2E22JNBS |
| TR484,485 | 273 0303 910 | Transistor 2SC1740S(S) | Built in resistor | △R410 | 241 2315 967 | Carbon 68ohm 1/4W | RD14B2E68JGFRS |
| TR487 | 271 0192 905 | Transistor 2SA933S(S) | Built in resistor | △R411,412 | 241 2377 976 | Carbon 130ohm 1/4W | RD14B2E13JNBS |
| TR488 | 273 0303 910 | Transistor 2SC1740S(S) | Built in resistor | △R416 | 241 2378 920 | Carbon 220ohm 1/4W | RD14B2E22JNBS |
| TR551 | 273 0303 910 | Transistor 2SC1740S(S) | Built in resistor | △R417~420 | 244 2043 982 | Metallic 0.22ohm 1W | RS14B3AR22JNBS(S) |
| TR801 | 269 0018 905 | Transistor DTC143ES(4.7k-4.7k) | Built in resistor | △R423 | 244 2051 987 | Metallic 4.7ohm 1W | RS14B3A47JNBS(S) |
| TR802 | 273 0303 910 | Transistor 2SC1740S(S) | Built in resistor | △R481,482 | 241 2387 909 | Carbon 1ohm 1/4W | RD14B2E01JNBS |
| TR803 | 269 0022 904 | Transistor DTA143ES(4.7k-4.7k) | | CAPACITORS GROUP | | | |
| TR902~904 | 269 0022 904 | Transistor DTA143ES(4.7k-4.7k) | | C301,302 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C10M |
| D301~306 | 276 0616 907 | Diode 1SS252 | | C305,306 | 253 1179 945 | Ceramic 220pF/50V | CK45B1H221K |
| D307~310 | 276 0619 904 | Diode 1S2471 | | C307,308 | 255 1264 966 | Film 3300pF/50V | CQ93M1H3CZJ(B) |
| D311,312 | 276 0616 907 | Diode 1SS252 | | C309,310 | 253 4536 909 | Ceramic 10pF/50V | CC45SL1H10D |
| D351 | 276 0305 001 | Diode S4VB20 | | | | | |

| Ref. No. | Part No. | Part Name | Remarks |
|----------|--------------|--------------------------|-----------------|
| C311,312 | 254 4256 952 | Electrolytic 220µF/25V | CE04W1E221M |
| C313-316 | 255 1264 908 | Film 1000pF/50V | CQ93M1H102J(B) |
| C317,318 | 253 4476 904 | Ceramic 18pF/500V | CC45SL2H180J |
| C319,320 | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010M |
| C321,322 | 255 1265 936 | Film 0.01µF/50V | CQ93M1H103J(B) |
| C323,324 | 256 1042 903 | Metalizde 0.1µF/250V | CF93A2E104K |
| C325,326 | 253 1128 909 | Ceramic 220pF/500V | CK45B2H221K |
| C327 | 255 1265 936 | Film 0.01µF/50V | CQ93M1H103J(B) |
| C331-334 | 254 4262 904 | Electrolytic 4.7µF/63V | CE04W1J4R7M |
| C351,352 | 254 4493 003 | Electrolytic 8200µF/50V | CE04W1H822M(DL) |
| C355 | 256 1042 903 | Metalizde 0.1µF/250V | CF93A2E104K |
| 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 |
| C403 | 253 1179 945 | Ceramic 220pF/50V | CK45B1H221K |
| C404 | 255 1264 966 | Film 3300pF/50V | CQ93M1H332J(B) |
| C405 | 253 4536 909 | Ceramic 10pF/50V | CC45SL1H100D |
| C406 | 254 4256 952 | Electrolytic 220µF/25V | CE04W1E221M |
| C407,408 | 255 1264 908 | Film 1000pF/50V | CQ93M1H102J(B) |
| C409 | 253 4476 904 | Ceramic 18pF/500V | CC45SL2H180J |
| C410 | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010M |
| C411 | 255 1265 936 | Film 0.01µF/50V | CQ93M1H103J(B) |
| C412 | 256 1042 903 | Metalizde 0.1µF/250V | CF93A2E104K |
| 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 |
| C432 | 253 1181 904 | Ceramic 0.01µF/50V | CK45F1H103Z |
| 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 940 | Film 2200pF/50V | CQ93M1H222J(B) |
| C461,462 | 256 1035 907 | Metalizde 0.18µF/50V | CF93A1H184J |
| C463,464 | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010M |
| C467,468 | 255 1265 949 | Film 0.012µF/50V | CQ93M1H123J(B) |
| C469,470 | 256 1034 940 | 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 1148 905 | 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 |

| Ref. No. | Part No. | Part Name | Remarks |
|----------|--------------|-------------------------|-------------|
| 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 |

OTHERS PARTS GROUP

| Ref. No. | Part No. | Part Name | Remarks |
|------------|--------------|---------------------------|---------------|
| | EP- 5667 H2 | Terminal | |
| | 451 0309 071 | PVC tube (L=10) | TR313,314,413 |
| CN10A | 205 0967 007 | 10P TXC base (P) | |
| CN11A | 205 0275 016 | 11P EH connector base | |
| CN13A | 205 0974 032 | 13P TXC base (P) | |
| CN25A | 205 0736 089 | 25P FFC connector base | |
| CN4A | 205 0233 045 | 4P EH connector base | |
| CN4B | 205 0969 047 | 4P TAC-L 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) | |
| CN9B | 205 0343 090 | 9P connector base (KR-PH) | |
| 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 | |
| R-BR | 203 0632 077 | 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-2865A MAIN AMP P.W.B. UNIT ASS'Y
for Europe, Asia and U.K. models
(Same as 1U-2865 except the followings)**

| Ref. No. | Part No. | Part Name | Remarks |
|-------------------------|--------------|-----------------|---------|
| CAPACITORS GROUP | | | |
| C428 | 255 1264 982 | Film 4700pF/50V | Add |

1U-2867 INPUT & SURROUND P.W.B. UNIT ASS'Y
for U.S.A. and Canada models

| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------------|--------------|--------------------------------|-------------------|
| SEMICONDUCTORS GROUP | | | |
| IC101 | 263 0672 903 | IC BA4558F | |
| IC102 | 262 1228 007 | IC LC7822 | |
| IC103 | 263 0672 903 | IC BA4558F | |
| IC201 | 263 0938 003 | IC DDSC-A | |
| IC202 | 262 1874 008 | IC NJU9701G | |
| IC203 | 262 1875 900 | IC BU4066BCF | |
| IC205 | 262 1875 900 | IC BU4066BCF | |
| TR201 | 269 0055 900 | Transistor DTA144EK(47k-47k) | Built in resistor |
| TR202,203 | 269 0054 901 | Transistor DTC144EK(47k-47k) | Built in resistor |
| TR205 | 269 0054 901 | Transistor DTC144EK(47k-47k) | Built in resistor |
| TR206 | 269 0048 904 | Transistor DTC143EK(4.7k-4.7k) | Built in resistor |
| TR207-209 | 269 0054 901 | Transistor DTC144EK(47k-47k) | Built in resistor |
| TR210 | 274 0169 908 | Transistor 2SD1292(R) | |
| D202-205 | 276 0616 907 | Diode 1SS252 | |
| ZD201 | 276 0637 902 | Zener diode MTZJ6.2A | |
| RESISTORS GROUP | | | |
| R101,102 | 247 0006 946 | Chip 390ohm 1/10W | RM73B--391J |
| R103,104 | 247 0011 986 | Chip 68kohm 1/10W | RM73B--683J |
| R105,106 | 247 0012 969 | Chip 150kohm 1/10W | RM73B--154J |
| R107,108 | 247 0004 922 | Chip 47ohm 1/10W | RM73B--470J |
| R109,110 | 247 0007 945 | Chip 1kohm 1/10W | RM73B--102J |
| R111,112 | 247 0014 909 | Chip 560kohm 1/10W | RM73B--564J |
| R113,114 | 247 0011 944 | Chip 47kohm 1/10W | RM73B--473J |
| R115,116 | 247 0003 949 | Chip 22ohm 1/10W | RM73B--220J |
| R117,118 | 247 0005 905 | Chip 100ohm 1/10W | RM73B--101J |
| R119,120 | 247 0013 984 | Chip 470kohm 1/10W | RM73B--474J |
| R121-128 | 247 0015 966 | Chip 2.7Mohm 1/10W | RM73B--275J |
| R133-144 | 247 0006 962 | Chip 470ohm 1/10W | RM73B--471J |
| R145 | 247 0014 925 | Chip 680kohm 1/10W | RM73B--684J |
| R151,152 | 247 0006 962 | Chip 470ohm 1/10W | RM73B--471J |
| R153,154 | 247 0011 986 | Chip 68kohm 1/10W | RM73B--683J |
| R155,156 | 247 0012 969 | Chip 150kohm 1/10W | RM73B--154J |
| R157-160 | 247 0005 905 | Chip 100ohm 1/10W | RM73B--101J |
| R201 | 247 0009 956 | Chip 7.5kohm 1/10W | RM73B--752J |
| R202 | 247 0011 944 | Chip 47kohm 1/10W | RM73B--473J |
| R203 | 247 0010 929 | Chip 15kohm 1/10W | RM73B--153J |
| R204 | 247 0009 956 | Chip 7.5kohm 1/10W | RM73B--752J |
| R205 | 247 0011 944 | Chip 47kohm 1/10W | RM73B--473J |
| R206 | 247 0010 929 | Chip 15kohm 1/10W | RM73B--153J |
| R207 | 247 0016 923 | Chip 4.7Mohm 1/10W | RM73B--475K |
| R208,209 | 247 0011 960 | Chip 56kohm 1/10W | RM73B--563J |
| R210 | 247 0012 927 | Chip 100kohm 1/10W | RM73B--104J |
| R211 | 247 0019 988 | Chip 100kohm 1/10W | RM73B--104F |

| Ref. No. | Part No. | Part Name | Remarks |
|-------------------------|-------------------------|-----------------------------|------------------------|
| R212 | 247 0010 929 | Chip 15kohm 1/10W | RM73B--153J |
| R213 | 247 0009 969 | Chip 8.2kohm 1/10W | RM73B--822J |
| R214 | 247 0010 929 | Chip 15kohm 1/10W | RM73B--153J |
| R215 | 247 0013 942 | Chip 330kohm 1/10W | RM73B--334J |
| R218-220 | 247 0011 944 | Chip 47kohm 1/10W | RM73B--473J |
| R221-223 | 247 0009 969 | Chip 8.2kohm 1/10W | RM73B--822J |
| R224 | 247 0014 967 | Chip 1Mohm 1/10W | RM73B--105J |
| R225 | 247 0010 929 | Chip 15kohm 1/10W | RM73B--153J |
| R226 | 247 0010 945 | Chip 18kohm 1/10W | RM73B--183J |
| R227 | 247 0010 929 | Chip 15kohm 1/10W | RM73B--153J |
| R228,229 | 247 0003 936 | Chip 20ohm 1/10W | RM73B--200J |
| R230 | 247 0009 956 | Chip 7.5kohm 1/10W | RM73B--752J |
| R231 | 247 0009 927 | Chip 5.6kohm 1/10W | RM73B--562J |
| R232 | 247 0010 945 | Chip 18kohm 1/10W | RM73B--183J |
| R233-235 | 247 0011 944 | Chip 47kohm 1/10W | RM73B--473J |
| R236 | 247 0007 945 | Chip 1kohm 1/10W | RM73B--102J |
| R237 | 247 0007 945 | Chip 1kohm 1/10W | RM73B--102J |
| R239,240 | 247 0005 905 | Chip 100ohm 1/10W | RM73B--101J |
| R241,242 | 247 0006 962 | Chip 470ohm 1/10W | RM73B--471J |
| R251,252 | 247 0008 928 | Chip 2.2kohm 1/10W | RM73B--222J |
| R253,254 | 247 0009 901 | Chip 4.7kohm 1/10W | RM73B--472J |
| CAPACITORS GROUP | | | |
| C101,102 | 257 0005 944 | Ceramic 220pF/50V | CC73SL1H221J |
| C103,104 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1C100M |
| C107,108 | 254 4254 925 | Electrolytic 33µF/16V | CE04W1C330M |
| C109,110 | 255 1264 995 | Film 5600pF/50V | CQ93M1H562J(B) |
| C111,112 | 257 0009 908 | Ceramic 1500PF/50V | CK73B1H152K |
| C113,114 | 257 0012 966 | Ceramic 0.01µF/50V | CK73F1H103Z |
| C115,116 | 254 4260 951 | Electrolytic 2.2µF/50V | CE04W1H2R2M |
| C129-131 | 253 9039 906 | Ceramic 0.1µF/25V | CK45-1E104Z |
| C133 | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010M |
| C136-138 | 257 0012 982 | Ceramic 0.022µF/50V | CK73F1H223Z |
| C139 | 257 0009 924 | Ceramic 2200PF/50V | CK73B1H222K |
| C151,152 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1C100M |
| C153,154 | 257 0004 961 | Ceramic 100pF/50V | CC73SL1H101J |
| C155,156 | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010M |
| C201,202 | 256 1034 979 | Metalizde 0.1µF/50V | CF93A1H104J |
| C203 | 257 0006 969 | Ceramic 680pF/50V | CC73SL1H68J |
| C204 | 256 1034 937 | Metalizde 0.047µF/50V | CF93A1H473J |
| C205,206 | 256 1034 979 | Metalizde 0.1µF/50V | CF93A1H104J |
| C207 | 257 0006 969 | Ceramic 680pF/50V | CC73SL1H68J |
| 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) |
| C214 | 254 4254 912 | Electrolytic 22µF/16V | CE04W1C220M |
| C215 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1C100M |

1U-2867A INPUT & SURROUND P.W.B. UNIT ASS'Y
for Europe, Asia and U.K. models
(Same as 1U-2867 except the following)

| Ref. No. | Part No. | Part Name | Remarks |
|--------------------|--------------|--------------------------|----------------|
| C216 | 256 1035 910 | Metalizde 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 | CQ93M1H582J(B) |
| C221 | 254 4250 958 | Electrolytic 470μF/6.3V | CE04W0J471M |
| C222 | 256 1034 937 | Metalizde 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 | Metalizde 0.68μF/50V | CF93A1H684J |
| C227-229 | 256 1035 910 | Metalizde 0.22μF/50V | CF93A1H224J |
| C230,231 | 254 4260 977 | Electrolytic 4.7μF/50V | CE04W1H4R7M |
| C232 | 256 1035 910 | Metalizde 0.22μF/50V | CF93A1H224J |
| C233-236 | 256 1034 979 | Metalizde 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/50V | CK73F1H104Z |
| 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/50V | CK73F1H104Z |
| 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/50V | CK73F1H104Z |
| C252 | 257 0006 927 | Ceramic 470pF/50V | CC73SL1H471J |
| C253,254 | 257 0009 979 | Ceramic 5600PF/50V | CK73B1H562K |
| C255 | 257 0014 935 | Ceramic 0.1μF/50V | CK73F1H104Z |
| 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 |
| C321,322 | 255 1265 936 | Film 0.01μF/50V | CQ93M1H103J(B) |
| C403 | 253 1179 945 | Ceramic 220pF/50V | CK45B1H221K |
| C404 | 255 1264 966 | Film 3300pF/50V | CQ93M1H332J(B) |
| C412 | 256 1042 903 | Metalizde 0.1μF/250V | CF93A2E104K |
| C432 | 253 1181 904 | Ceramic 0.01μF/50V | CK45F1H103Z |
| C806 | 254 4250 932 | Electrolytic 220μF/6.3V | CE04W0J221M |
| OTHERS PARTS GROUP | | | |
| CN10A | 205 0966 008 | 10P TXC socket(X) | |
| CN13A | 205 0968 035 | 13P TXC socket(X) | |
| CN6B | 205 0970 065 | 6P TAC-L socket | |
| 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 | Add |
| IC103 | 263 0672 903 | IC BA4558F | Change |
| RESISTORS GROUP | | | |
| R726 | 241 2396 999 | Carbon 200ohm 1/4W | Change |
| R733 | 241 2396 999 | Carbon 200ohm 1/4W | Change |
| J101,102 | 241 2400 911 | Carbon 4.7kohm 1/4W | Add |
| CAPACITORS GROUP | | | |
| C121-128 | 257 0004 903 | Ceramic 56pF/50V | Add |
| C147,148 | 257 0004 961 | Ceramic 100pF/50V | Add |
| C281,282 | 255 1264 908 | Film 0.001μF/50V | Add |
| OTHERS PARTS GROUP | | | |
| LF101,102 | 235 9003 002 | FTZ choke coil | Add |

1U-2889 TUNER & VOLUME P.W.B. UNIT ASS'Y
for U.S.A and Canada 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 | |

| Ref. No. | Part No. | Part Name | Remarks |
|--|--------------|---------------------------|--------------------|
| RESISTORS GROUP (Not included carbon film ±5% 1/4W) | | | |
| VR261 | 211 0858 001 | Variable resistor 100kohm | V1640V30F=104R(MG) |
| 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 | Metalizde 0.056µF/50V | CF93A1H563J |
| C025 | 254 4254 912 | Electrolytic 22µF/16V | CE04W1C220M |
| 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 | Metalizde 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 |
| C060 | 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 |

| Ref. No. | Part No. | Part Name | Remarks |
|---------------------------|--------------|-----------------------|---------------|
| 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 | | | |
| | 205 0973 004 | 3P ANT.terminal | |
| BL001 | 231 2096 001 | MW ANT-OSC coil | |
| CF001 | 261 0145 007 | Ceramic filter | FMCFSK107M1-A |
| CF002 | 261 0146 006 | Ceramic filter | FMCFSK107M2-A |
| CF003 | 261 0031 001 | Ceramic filter | BFU450C4 |
| CF004 | 261 0079 005 | Ceramic filter | CBS456F11 |
| CF005 | 261 0116 007 | Ceramic filter | SFU450B3 |
| CN6A,6C | 205 0970 065 | 6P TAC-L socket | |
| 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-2889A TUNER & VOLUME P.W.B. UNIT ASS'Y
for Europe and U.K. models
(Same as 1U-2889 except the following)

| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------------|--------------|-----------------------|---------|
| SEMICONDUCTORS GROUP | | | |
| IC004 | 261 0079 005 | IC FM front end (U) | Change |
| TR001 | 275 0051 909 | Transistor 2SK161(GR) | Add |
| RESISTORS GROUP | | | |
| R002 | 241 2400 937 | Carbon 5.6kohm 1/4W | Change |
| R004 | 241 2400 995 | Carbon 10kohm 1/4W | Add |
| R005 | 241 2397 969 | Carbon 390ohm 1/4W | Change |
| R006 | 241 2397 943 | Carbon 330ohm 1/4W | Change |
| R008 | 241 2397 943 | Carbon 330ohm 1/4W | Change |
| R011 | 241 2397 943 | Carbon 330ohm 1/4W | Change |
| R014 | 241 2396 928 | Carbon 100ohm 1/4W | Change |
| R023 | 241 2399 909 | Carbon 1.6kohm 1/4W | Add |
| R024 | 241 2400 953 | Carbon 6.8kohm 1/4W | Change |
| R032 | 241 2403 976 | Carbon 150kohm 1/4W | Add |
| R033,034 | 241 2404 904 | Carbon 200kohm 1/4W | Change |
| R035 | 241 2403 976 | Carbon 150kohm 1/4W | Add |
| R037,038 | 241 2403 934 | Carbon 100kohm 1/4W | Change |
| R041,042 | 241 2399 970 | Carbon 3.3kohm 1/4W | Change |
| R048 | 241 2400 937 | Carbon 5.6kohm 1/4W | Change |

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

| Ref. No. | Part No. | Part Name | Remarks |
|---------------------------|--------------|-----------------------|---------|
| R267,268 | 241 2399 970 | Carbon 3.3kohm 1/4W | Change |
| R274 | 241 2400 937 | Carbon 5.6kohm 1/4W | Change |
| R275 | 241 2396 928 | Carbon 100ohm 1/4W | Change |
| R281 | 241 2400 937 | Carbon 5.6kohm 1/4W | Change |
| R282 | 241 2396 928 | Carbon 100ohm 1/4W | Change |
| CAPACITORS GROUP | | | |
| C006,007 | 253 1181 904 | Ceramic 0.01μF/50V | Change |
| C016 | 253 4538 949 | Ceramic 100PF/50V | Change |
| C025-027 | 254 4254 912 | Electrolytic 22μF/16V | Change |
| C053,054 | 253 4448 903 | Ceramic 330PF/50V | Change |
| OTHERS PARTS GROUP | | | |
| CF001 | 261 0146 006 | FMCFSK107M2-A | Change |
| LF001 | 232 9010 009 | Anti birdie filter | Add |
| LF002,003 | 232 0085 004 | .LPF | Add |

| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------------|--------------|------------------------------|-------------------|
| SEMICONDUCTORS GROUP | | | |
| IC601 | 262 1873 009 | IC BU4066BC | |
| IC701 | 262 2190 011 | IC TMP87CM71F-6314 | |
| IC702 | 499 0150 008 | IC SBX1610-52 | |
| TR601,602 | 273 0198 918 | Transistor 2SC1815(BL) | |
| TR603,604 | 271 0102 924 | Transistor 2SC1015(GR) | |
| TR701,702 | 269 0020 906 | Transistor DTC114ES(10k-10k) | Built in resistor |
| D616 | 276 0616 907 | Diode 1SS252 | |
| D617 | 276 0616 907 | Diode 1SS252 | |
| D701 | 276 0636 903 | Diode MTZJ8.2B | |
| D701,702 | 276 0616 907 | Diode 1SS252 | |
| LD701,702 | 393 9434 906 | LED SEL1210S | |

| RESISTORS GROUP | | | |
|------------------------|--------------|-------------------|----------------|
| RA R610 | 241 2375 907 | Carbon 15ohm 1/4W | RD1482E100JNB5 |

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 | Change |
| CAPACITORS GROUP | | | |
| C266 | 253 1180 934 | Ceramic 1200PF/50V | Change |

| CAPACITORS GROUP | | | |
|-------------------------|--------------|-------------------------|--------------|
| C601,602 | 254 4252 927 | Electrolytic 47μF/10V | CE04W1A470M |
| C604 | 254 4254 776 | Electrolytic 470μF/16V | CE04W1C471M |
| C605,606 | 253 4535 955 | Ceramic 5pF/50V | CC45SL1H050C |
| C607,608 | 254 4252 778 | Electrolytic 1000μF/10V | CE04W1A102MC |
| C703 | 254 4260 977 | Electrolytic 4.7μF/50V | CE04W1H4R7M |
| C705 | 254 4250 929 | Electrolytic 100μF/6.3V | CE04W0J101M |
| C706 | 253 1181 904 | Ceramic 0.01μF/50V | CK45F1H103Z |

| OTHERS PARTS GROUP | | | |
|---------------------------|--------------|---------------------------|--|
| CN25A | 205 0736 089 | 25P FFC connector base | |
| CN2A | 205 0075 025 | 2P terminal | |
| CN3B | 203 5080 019 | 3P SCN-SCN connector cord | |
| CN4B | 205 0970 049 | 4P TAC-L socket | |
| CN9B | 204 2751 001 | 9P PH-SAN connector cord | |
| FL701 | 393 4155 002 | FLD (FIP14AM7R) | |
| JK601,602 | 204 8468 000 | 2P pin jack | |
| SW701-704 | 212 4789 001 | Tact switch | |
| SW708-713 | 212 4789 001 | Tact switch | |
| SW719-730 | 212 4789 001 | Tact switch | |
| XT701 | 399 0261 901 | Crystal (CO.DCRHTP4.00M) | |

1U-2866 REAR AMP P.W.B. UNIT ASS'Y
for U.S.A. and Canada models

| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------------|-------------------------|-----------------------------------|------------------------------|
| SEMICONDUCTORS GROUP | | | |
| IC501,502 | 263 0985 001 | IC SI-18751 | |
| IC503 | 263 0801 004 | IC NJM7812FA(S) | |
| IC504 | 263 0641 002 | IC NJM7912FA | |
| IC505,506 | 268 0074 904 | IC ICP-N20 | |
| TR531 | 273 0303 910 | Transistor 2SC1740S(S) | |
| 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 | PTH9M04BB222TS2F333 |
| RESISTORS GROUP | | | |
| △R361-364 | 244 2052 960 | Metallic 220ohm 1W | RS14B3A221JNBS(S) |
| △R503,510 | 244 2051 987 | Metallic 4.7ohm 1W | RS14B3A4R7JNBS(S) |
| △R513 | 241 2387 906 | Carbon 1ohm 1/4W | RD14B2E010JNBS |
| △R556 | 241 2375 976 | Carbon 20ohm 1/4W | RD14B2E200JNBS |
| △R557 | 242 0073 000 | Metallic 2.2Mohm 1/2W | RC050F241225K |
| CAPACITORS GROUP | | | |
| 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 |
| C517,518 | 254 4257 702 | Electrolytic 3300µF/25V | CE04W1E332MC |
| 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 |
| 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 6014 702 | Ceramic 0.01µF/400V AC | CK45F2GAC103MC |
| C561 | 254 4254 938 | Electrolytic 47µF/16V | CE04W1C470M |
| C565,566 | 253 1181 904 | Ceramic 0.01µF/50V | CK45F1H103Z |
| OTHERS PARTS GROUP | | | |
| △ | 203 3941 008 | AC outlet (2P) | |
| | 203 0632 035 | 1P SIN cord Ass'y | |
| | 203 0632 048 | 1P SIN cord Ass'y | |
| | 415 0309 039 | PVC tube | TH531 |

| Ref. No. | Part No. | Part Name | Remarks |
|----------------------|-------------------------|------------------------------|---------|
| | 203 0632 064 | 1P SIN cord Ass'y | |
| | 203 0633 021 | 1P contact Ass'y | |
| | 202 0040 909 | Fuse clip | |
| | EP- 5667 H2 | Terminal | |
| | 203 0524 062 | 1P SIN cord Ass'y | |
| | 204 8503 004 | :Headphone jack | |
| | 203 0524 075 | 1P SIN cord Ass'y | |
| | 415 0496 036 | UL tube (12.7) BK | |
| △ | 233 6073 000 | Power trans | |
| | 203 0633 018 | 1P contact Ass'y | |
| | 203 0524 033 | 1P SIN cord Ass'y | |
| | 203 0632 051 | 1P SIN cord Ass'y | |
| | 203 0640 014 | 1P SIN cord Ass'y | |
| | 205 0952 009 | 4P SP terminal | |
| | 203 0640 001 | 1P SIN cord Ass'y | |
| CN11A | 204 6552 002 | 11P EH-SCN connector cord | |
| CN4B | 203 6475 018 | 4P EH-SCN connector cord | |
| △F001 | 206 1046 014 | Fuse 8A | |
| △F002 | 206 1046 001 | Fuse 0.3A UL 20MM | |
| △F011,012 | 206 1046 027 | Fuse 5A | |
| 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) | |
| SP005 | 205 0972 005 | 4P push terminal | |
| SW001 | 212 4778 009 | 2P push switch | |

1U-2866A REAR AMP P.W.B. UNIT ASS'Y
for Europe, Asia and U.K. models
(Same as 1U-2866 except the followings)

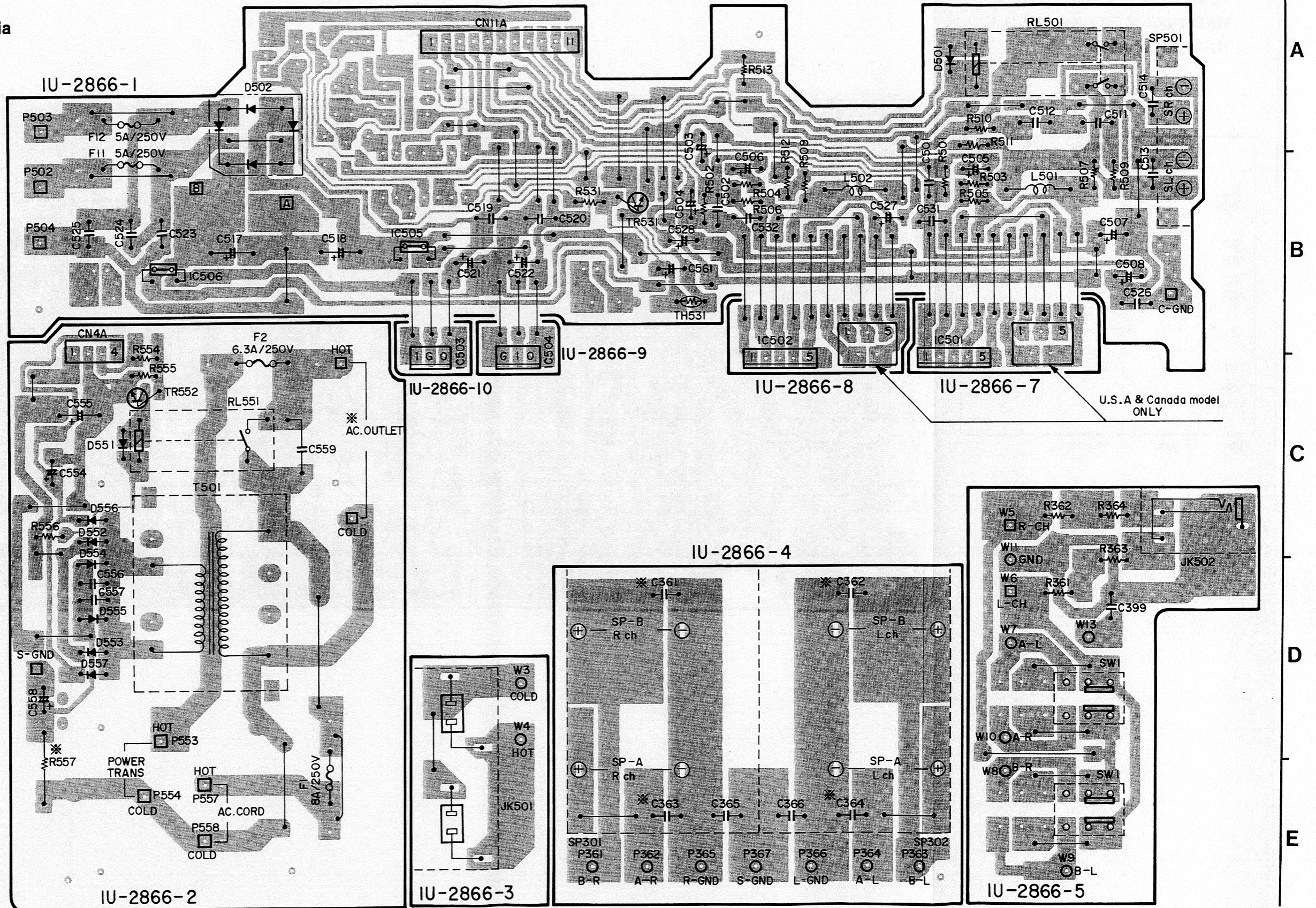
| Ref. No. | Part No. | Part Name | Remarks |
|---------------------------|-------------------------|----------------------------------|-------------------|
| RESISTORS GROUP | | | |
| △R557 | 242 0073 000 | Metallic 2.2Mohm 1/2W | Delete |
| CAPACITORS GROUP | | | |
| C361-364 | 255 1264 982 | Film 4700pF/50V | Add |
| C513,514 | 255 1264 982 | Film 4700pF/50V | Add |
| OTHERS PARTS GROUP | | | |
| △ | 203 3941 008 | AC outlet (2P) | Delete |
| △ | 233 6178 002 | Power trans | Change |

1 2 3 4 5 6 7 8

REAR AMP. P. W. B. UNIT ASS'Y
1U-2866 for U. S. A. and Canada
1U-2866A for Europe, U. K. and Asia

| * | 1U-2866 | 1U-2866A |
|-----------|-------------------|-----------------------|
| | U.S.A. and Canada | Europe, U.K. and Asia |
| R557 | ○ | × |
| C361 | × | ○ |
| C362 | × | ○ |
| C363 | × | ○ |
| C364 | × | ○ |
| AC outlet | ○ | × |

Note: ○ : Used × : Not used



A
B
C
D
E

1 2 3 4 5 6 7 8

TUNER AND VOLUME P. W. B. UNIT ASS'Y
 1U-2889 for U. S. A. and Canada
 1U-2889A for Europe, and U. K.
 1U-2889B for Asia

A

| * | 1U-2889 | 1U-2889A | 1U-2889B |
|-------|-------------------|-----------------|----------|
| | U.S.A. and Canada | Europe and U.K. | Asia |
| TR001 | x | o | x |
| R004 | x | o | x |
| R023 | x | o | x |
| R032 | x | o | x |
| R035 | x | o | x |
| C055 | x | x | x |
| LF001 | x | o | x |
| LF002 | x | o | x |
| LF003 | x | o | x |

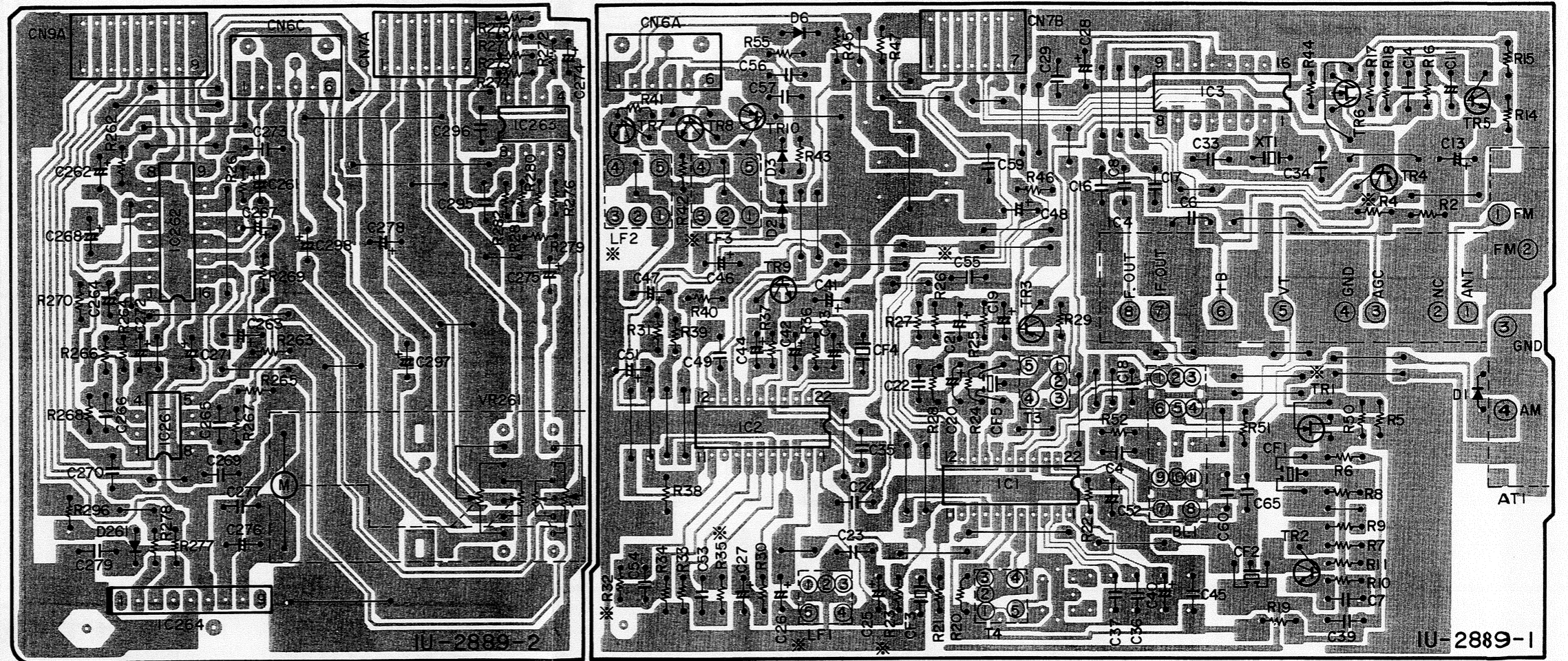
Note: o : Used x : Not used

B

C

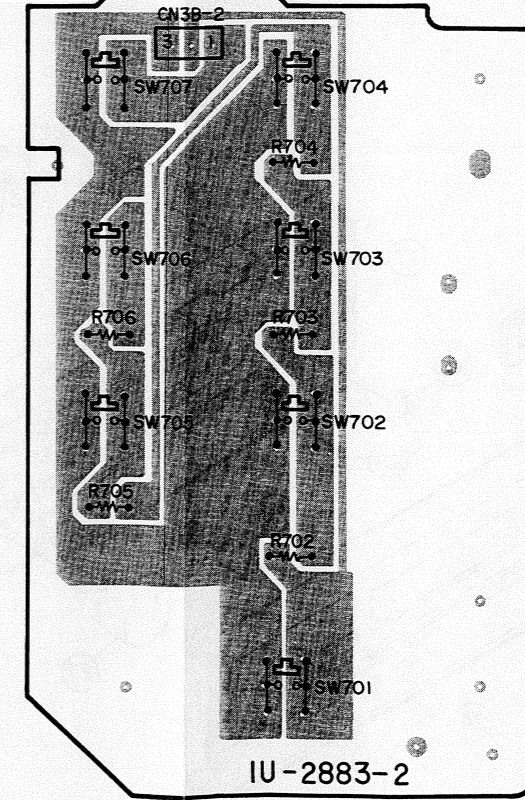
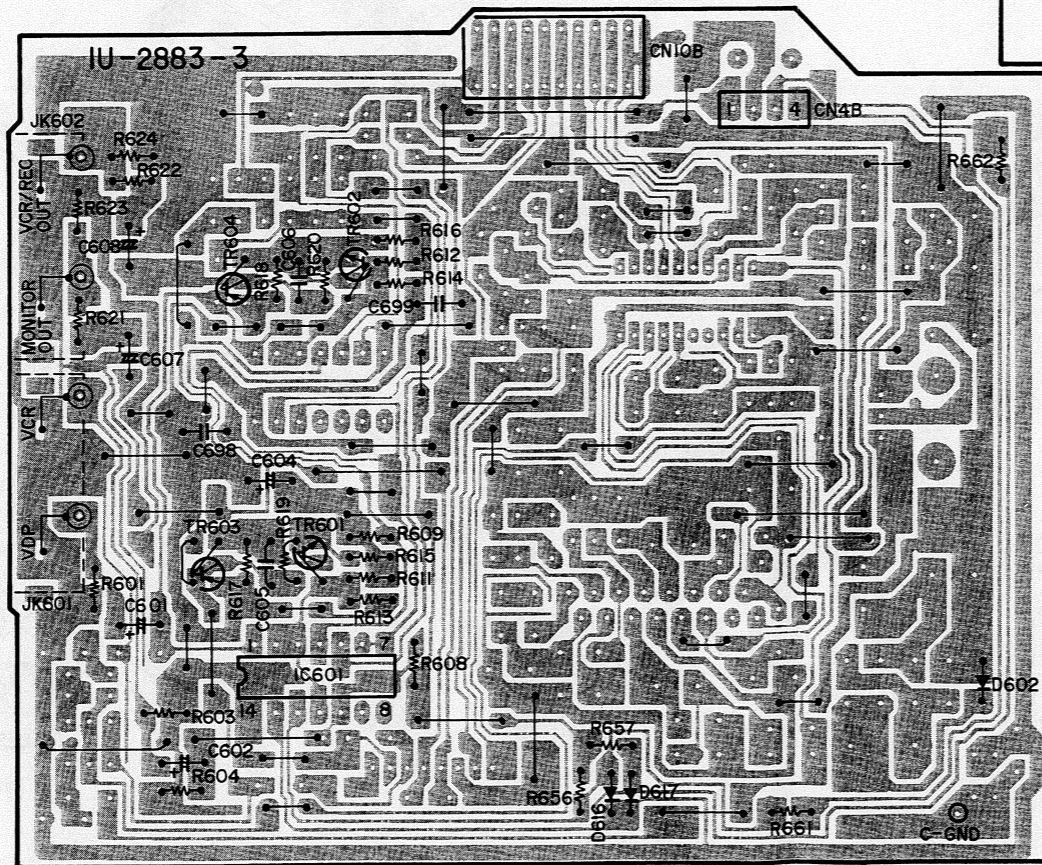
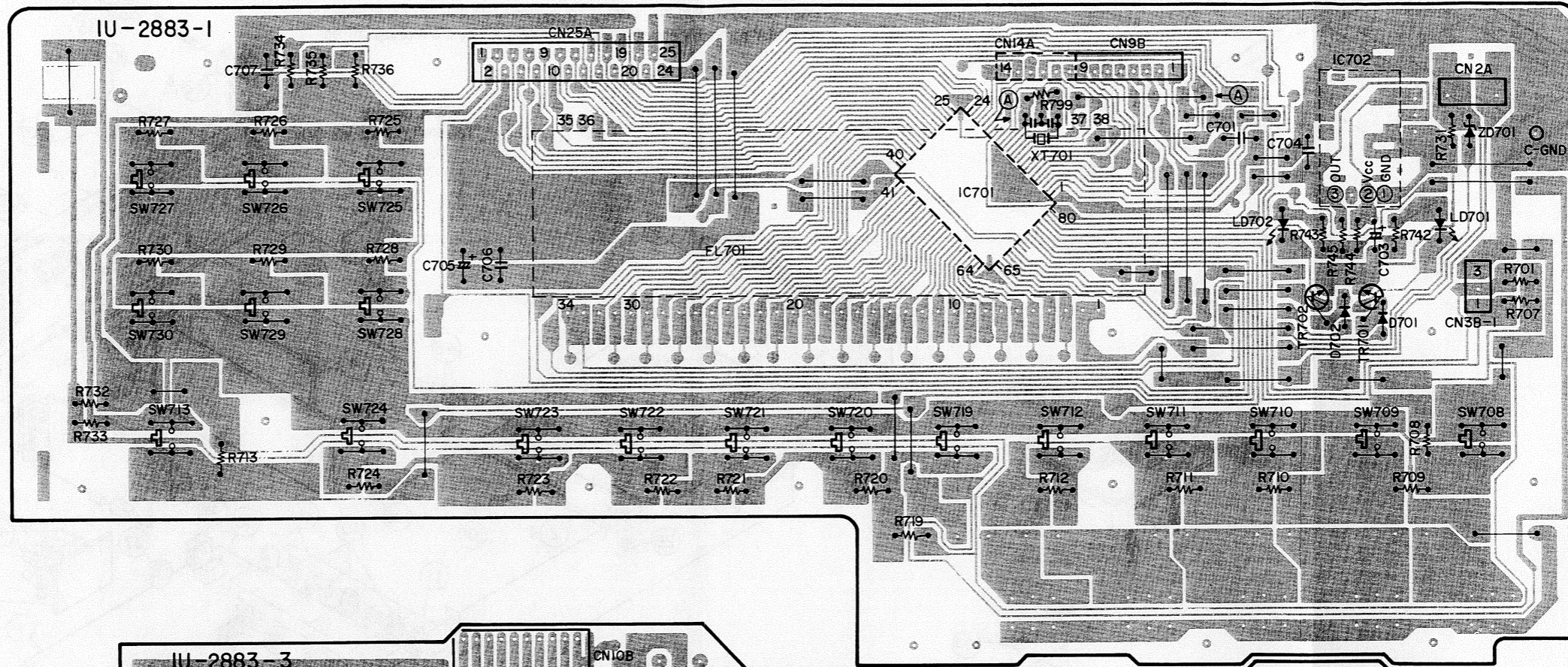
D

E



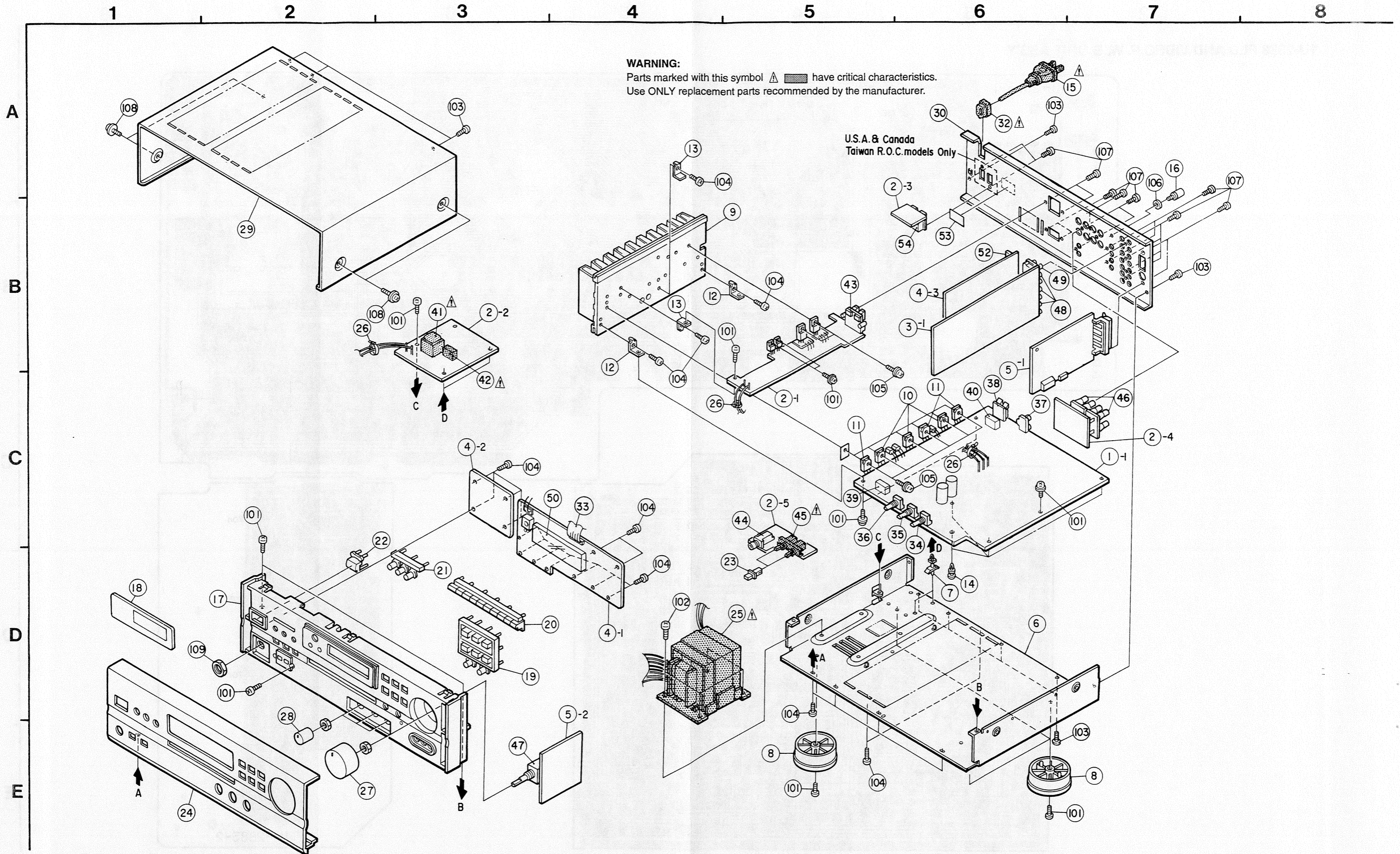
1 2 3 4 5 6 7 8

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



A
B
C
D
E

EXPLODED VIEW



PARTS LIST OF EXPLODED VIEW

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|--------------------------------------|---------|------|
| 1 | Note | Main amp. P.W.B. unit Ass'y | | 1 |
| 1-1 | — | Main amp. P.W.B. unit | | |
| 2 | Note | Rear amp. P.W.B. unit Ass'y | | 1 |
| 2-1 | — | Rear amp. P.W.B. unit | | |
| 2-2 | — | Power supply P.W.B. unit | | |
| 2-3 | — | AC outlets P.W.B. unit | | |
| 2-4 | — | Front SP. P.W.B. unit | | |
| 2-5 | — | H/P and SW. P.W.B. unit | | |
| 3 | Note | Input and surround P.W.B. unit Ass'y | | 1 |
| 3-1 | — | Input and surround P.W.B. unit | | |
| 4 | Note | FLD and video P.W.B. unit Ass'y | | 1 |
| 4-1 | — | FLD P.W.B. unit | | |
| 4-2 | — | Tact S.W P.W.B. unit | | |
| 4-3 | — | Video P.W.B. unit | | |
| 5 | Note | Tuner and Volume P.W.B. unit Ass'y | | 1 |
| 5-1 | — | Tuner P.W.B. unit | | |
| 5-2 | — | Volume P.W.B. unit | | |
| 6 | 411 1334 108 | Main chassis | | 1 |
| 7 | 443 0518 016 | P.W.B. holder | | 2 |
| 8 | 104 0282 007 | *Foot Ass'y | | 4 |
| 9 | 417 0513 009 | *Power radiator | | 1 |
| 10 | 273 0443 003 | 2SC4278(E/F) | | 3 |
| 11 | 271 0283 005 | 2SA1633(E/F) | | 3 |
| 12 | 412 4000 005 | *P.W.B.bracket(A) | | 2 |
| 13 | 412 3766 007 | *L bracket | | 2 |
| 14 | 412 2814 002 | Card spacer (L=8) | | 4 |
| 15 | Note | AC cord (with plug) | | 1 |
| 16 | 205 0071 016 | Terminal Ass'y | | 1 |
| 17 | 146 1574 103 | Inner panel | | 1 |
| 18 | 143 0942 009 | Window | | 1 |
| 19 | 113 1753 005 | Tact knob (A) | | 1 |
| 20 | 113 1692 001 | *Function knob | | 1 |
| 21 | 113 1743 002 | Tact knob (3 Key) | | 1 |
| 22 | 113 1636 106 | *Push knob (P) | | 1 |
| 23 | 113 1558 006 | Push knob (KAKU) | | 2 |
| 24 | 144 2451 106 | Front panel | | 1 |
| 25 | Note | Power trans. | | 1 |
| 26 | 445 8004 007 | Wire clasper | | 5 |
| 27 | 112 0761 008 | *Volume knob | | 1 |
| 28 | 112 0762 007 | *Knob | | 3 |
| 29 | 102 0565 003 | Top cover | | 1 |
| 30 | Note | Back panel | | 1 |
| ★ | 001 0198 009 | VinylWire | | 1 |
| 31 | Note | 220 push | | 1 |
| 32 | 445 0023 008 | 220 push | | 1 |
| 33 | 009 0105 012 | 25P FFC cable | | 1 |
| 34 | 211 0798 103 | Variable resistor 100kohm | VR451 | 1 |
| 35 | 211 0797 117 | Variable resistor 30kohm | VR452 | 1 |
| 36 | 211 0797 133 | Variable resistor 10kohm | VR453 | 1 |
| 37 | 204 8509 011 | 2P pin jack (C-GND) | JK301 | 1 |
| 38 | 205 0971 006 | 2P push terminal | SP003 | 1 |
| 39 | 214 0129 001 | Relay (DH2TU) | RL481 | 1 |

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|----------------------------|-------------------------------|------|
| 40 | 214 0187 001 | Relay (DH24D2-OS(M)-2) | RL482 | 1 |
| △ 41 | Note | Power trans (mini) | | 1 |
| △ 42 | 214 0188 000 | Relay (NS-12MNR-SM2)(TV-8) | RL551 | 1 |
| 43 | 205 0972 005 | 4P push terminal | | 1 |
| 44 | 204 8503 004 | :Headphone jack | | 1 |
| △ 45 | 212 4778 009 | 2P push switch | SW001 | 1 |
| 46 | 205 0952 009 | 4P speaker terminal | | 2 |
| 47 | 211 0858 001 | Variable resistor 100kohm | VR261 | 1 |
| 48 | 204 8497 000 | 4P pin jack (GND)(K) | JK101-103 | 3 |
| 49 | 204 8509 008 | 2P pin jack (C-GND) | JK104 | 1 |
| 50 | 393 4155 002 | FLD (FIP14AM7R) | FL701 | 1 |
| ★ | 212 4789 001 | Tact switch | SW701-704, 708-713,719-730 | 22 |
| 52 | 204 8468 000 | 2P pin jack | JK601,602 | 2 |
| 53 | 513 2404 029 | Fuse caution label | | 1 |
| 54 | Note | AC outlet (2P) | | 1 |
| ★ | 513 2236 006 | Label | | |
| ★ | 513 2377 004 | CUL label (1270) | | |
| ★ | 513 2433 003 | Serial No.sheet | | |

SCREWS

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|-------------------|---------|------|
| 101 | 473 7002 018 | Screw 3x8 (S) | | 14 |
| 102 | 473 7004 016 | Screw 4x6 (S) | | 4 |
| 103 | 473 7015 005 | Screw 3x6 (S) BK | | 10 |
| 104 | 473 7500 044 | Screw 3x8 (P) BK | | 22 |
| 105 | 473 8007 009 | Screw 3x12 cup | | 8 |
| 106 | 477 0018 001 | Washer(P-87) | | 1 |
| 107 | 477 0064 107 | Fixing screw | | 17 |
| 108 | 477 0263 005 | 3P swelling screw | | 4 |
| 109 | 475 6124 003 | 12 Nut | | 1 |

PACKING & ACCESSORIES

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|---------------------|--------------|------|
| | 504 0092 086 | Stylen paper | (700x600xT1) | 1 |
| | 505 0075 006 | Cabinet cover | (750x350) | 1 |
| | 503 1190 007 | Cushion | | 2 |
| | 505 8006 019 | Envelope | | 1 |
| | Note | Instructions manual | | 1 |
| | 515 0671 122 | S.S.list | | 1 |
| | 399 0292 006 | Remoto control unit | RC195 | 1 |
| | 231 0922 009 | AM lobe antenne | | 1 |
| | 395 0023 008 | :FM antenne Ass'y | | 1 |
| | Note | Carton case | | 1 |
| | Note | UPC label | | 1 |
| | 513 1389 006 | Control card base | | 1 |
| | 513 1349 004 | Thermal carbon film | | 1 |
| | Note | DELWarranty home | | 1 |
| | 394 0038 003 | Battery (GER6M) | | 2 |

**ADDENDUM PARTS LIST
PARTS LIST OF EXPLODED VIEW**

| Ref.No. | Part Name | Part NO. | | | |
|---------|--------------------------------------|---------------|--------------|---------------|--------------|
| | | U.S.A./Canada | Europe | Multi-Voltage | U.K |
| 1 | Main amp. P.W.B. unit Ass'y | 1U-2865 | 1U-2865 A | 1U-2865 A | 1U-2865 A |
| 2 | Rear amp. P.W.B. unit Ass'y | 1U-2866 | 1U-2866 A | 1U-2866 A | 1U-2866 A |
| 3 | Input and surround P.W.B. unit Ass'y | 1U-2867 | 1U-2867 A | 1U-2867 A | 1U-2867 A |
| 4 | FLD and video P.W.B. unit Ass'y | 1U-2883 | 1U-2883 A | 1U-2883 A | 1U-2883 A |
| 5 | Tuner and volume P.W.B. unit Ass'y | 1U-2889 | 1U-2889 A | 1U-2889 B | 1U-2889 A |
| △ 15 | AC cord | 205 2083 009 | 205 2083 009 | 205 2083 009 | 205 2131 009 |
| △ 25 | Power trans. | 233 6178 004 | 233 6178 002 | 233 6178 002 | 233 6178 002 |
| 30 | Back panel | 105 1167 001 | 105 1167 014 | 105 1167 014 | 105 1167 014 |
| △ 41 | Power trans (mini) | 233 6073 000 | 233 6085 001 | 233 6085 001 | 233 6085 001 |
| △ 54 | AC outlet (2P) | 203 3041 008 | | | |

PACKING AND ACCESSORIES

| Ref.No. | Part Name | Part NO. | | | |
|---------|--------------|---------------|--------------|---------------|--------------|
| | | U.S.A./Canada | Europe | Multi-Voltage | U.K |
| | Inst. manual | 511 2791 008 | 511 2800 009 | 511 2791 008 | 511 2801 008 |
| | Carton case | 501 1887 000 | 501 1887 000 | 501 1887 013 | 501 1887 000 |
| | UPC label | 517 0109 027 | — | — | — |
| | DELWarranty | 515 0690 006 | — | — | — |