

DENON

SERVICE MANUAL

MODEL DRM-550

STEREO CASSETTE TAPE DECK

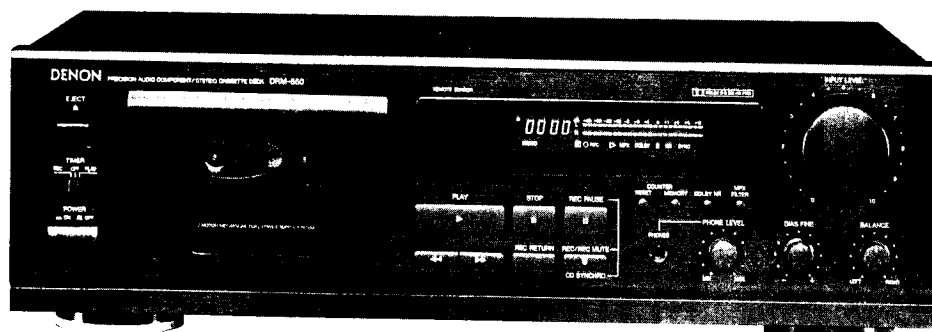


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NIPPON COLUMBIA CO., LTD.

IMPORTANT TO SAFETY

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

1. **Handle the power supply cord carefully**
 Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or malfunction when used. When removing it from wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.
2. **Do not open the top cover**
 In order to prevent electric shock, do not open the top cover. If problems occur, contact your DENON DEALER.
3. **Do not place anything inside**
 Do not place metal objects or spill liquid inside the cassette tape deck. Electric shock or malfunction may result.

Please, record and retain the Model name and serial number of your set shown on the rating label.
 Model No. DRM-550 Serial No. _____

• FOR U.S.A. & CANADA MODEL ONLY

CAUTION

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


• POUR LES MODELES AMERICAINS ET CANADIENS UNIQUEMENT

ATTENTION


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

● **DECLARATION OF CONFORMITY**

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:
 EN55013, EN55020, EN60555-2 and EN60555-3.



CAUTION
 RISK OF ELECTRIC SHOCK
 DO NOT OPEN



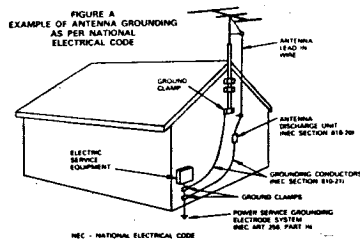
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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

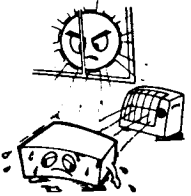


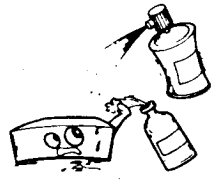
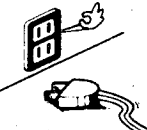
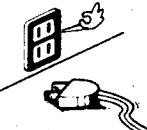
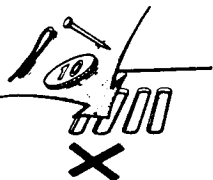
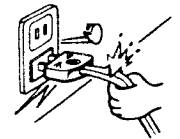
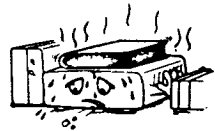
The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

SAFETY INSTRUCTIONS

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



NOTE ON USE

| | | |
|---|--|--|
|  <p>Be careful of high temperatures</p> <ul style="list-style-type: none"> Do not place the set in a location where it will be exposed to direct sunlight or near a heating appliance. <p>Caution on rack/cabinet installation</p> <ul style="list-style-type: none"> Avoid installing the set in a closed-type rack. When installing in a rack or cabinet, provide a sufficiently large ventilation opening to promote heat radiation. |  <p>Caution on humidity, water, and dust</p> <ul style="list-style-type: none"> Do not place the set in a location where there is high humidity or a lot of dust. <p>Flower vases or other items containing water should not be placed on top of the set.</p> |  <p>Do not open the case</p> <ul style="list-style-type: none"> Opening the top cover or the bottom plate of the case and inserting your hand is dangerous. Do not open the case. <p>If some trouble arises with the performance of the set, remove the power plug soon and contact the store where the set was purchased or a nearby dealer.</p> |
|  <p>Care of the case</p> <ul style="list-style-type: none"> Avoid the use of pesticides near the set as well as wiping the case with benzine, thinner or other solvents since they may cause a change in quality or color. Use a soft cloth when wiping away dirt and follow the instructions carefully when using chemically treated cloths. |  <p>During your absence</p> <ul style="list-style-type: none"> When not using the set for an extended period such as when taking a trip, be sure to disconnect the plug from the receptacle. |  |
|  <p>Do not allow foreign matter into the equipment</p> <ul style="list-style-type: none"> Be especially careful of needles, hair pins, and coins getting into the set. |  <p>Care with the power cord</p> <ul style="list-style-type: none"> When removing the plug from the receptacle, do not pull the power cord; be sure to hold the plug when removing it. |  <p>For sets with ventilation holes</p> <p>Do not block the ventilation holes of the set</p> <ul style="list-style-type: none"> Blocking of the ventilation holes will lead to damage of the set. The ventilation holes are very important for heat radiation from within the set. Care must be taken since placing an object against the holes will result in an extreme rise of temperature within the set. |

Thank you very much for purchasing the DENON component. Stereo cassette tape deck. DENON proudly presents this advanced tape deck to audiophiles and music lovers as a further proof of DENON's non-compromising pursuit of the ultimate in sound quality. The high quality performance and easy operation are certain to provide you with many hours of outstanding listening pleasure.

- Please check to make sure the following items are included with the main unit in the carton:**
- (1) Operating Instructions 1
 - (2) Connection Cords 2
 - (3) Mini-Plug Cable 1

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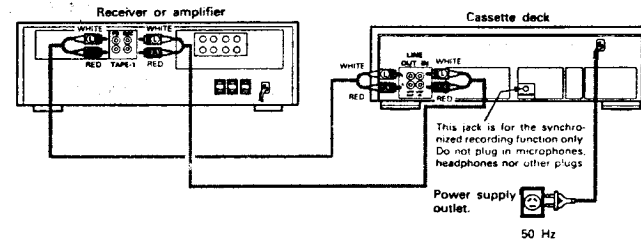
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FEATURES

- Computer Controlled Mechanism
- Non-slip Reel Drive for Stabilizing Tape Tension
- Dual Power Supply
- High Performance R/P Head
- Dolby HX Pro System
- Dolby B & C Noise Reduction System
- Manual Bias Adjustment Control
- REC Return System
- Computing Tape Counter with 4-Digit Readout and Memory Stop
- Music Search System
- FL Peak Level Meters
- Auto Tape Selector
- Synchronized Recording
- Optional Remote Controllable
- DIMMER Adjustment

CONNECTION

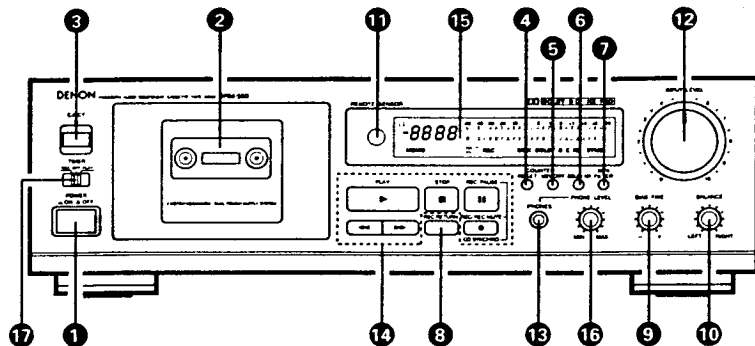
- Leave your entire system (including this cassette deck) turned off until all connections between the deck and other components have been completed.



- **Connecting the Deck to an Amplifier**
 - Before connecting the deck to your amplifier, please review your amplifier's instruction manual.
 - Use the white plugs for the left channel and red plugs for the right channel.
- **Tape Dubbing**
 - Many stereo amplifiers and receivers have tape dubbing circuitry so that tape duplication can be performed between two or more tape decks. Review your amplifier's instruction manual for a full explanation of this mode of operation.

- **Connecting Headphones**
 - To listen through headphones, plug your headphones into the PHONES jack.
- **Installation Precautions**
 - If the deck is placed near an amplifier, TV or tuner, noise (induced hum) or beat interference may result, especially during FM or AM reception. If this occurs, place the deck further away from other components or reorient its position.
- **DIMMER Adjustment**

NAMES AND FUNCTIONS OF PARTS



- 1 Power Switch (POWER)**
Controls the supply of AC power to the deck. One push turns the deck on, a second push turns it off. The deck remains in a stand-by (non-operative) mode for approximately 2 seconds after it is switched on.
- 2 Cassette Compartment Cover**
If this compartment cover is not closed completely, the deck's transport controls will remain inoperative.
- 3 Eject Button (EJECT ▲)**
Press this button to eject the cassette. When the deck is operating (tape is running), press the STOP (■) button first to stop the tape transport, then press the EJECT button.
- 4 Counter Reset Button (COUNTER RESET)**
Operation of the button resets the counter to all zero.
- 5 Memory Button (COUNTER MEMORY)**
During rewinding operations, the tape will stop at the "0000" counter point automatically when this button is pressed in.
- 6 Dolby NR Button (DOLBY NR)**
To record or playback tapes with Dolby B or C-type noise reduction, set this button to "B" or "C". Turn it off when not using the Dolby NR system. If you further press the button during the display, the type will change in the following cycle:
OFF → B → C → OFF
- 7 MPX FILTER Button (MPX FILTER)**
The MPX FILTER button, should be used to prevent interference with the Dolby NR circuit when making Dolby NR encoded recordings of FM stereo programs. When making Dolby NR encoded recordings from any program source other than FM stereo, leave this button in the "OFF" position.

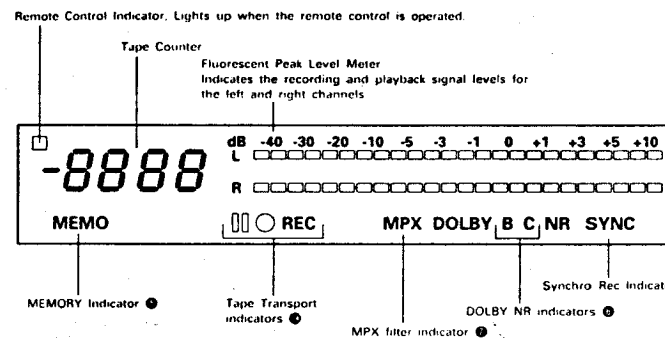
- 8 REC Return Button (REC RETURN)**
When this button is pressed at the recording state, the tape is rewound to the starting point. When the starting point is automatically reached, the record standby mode (rec pause state) comes.
- 9 Bias Fine Control (BIAS FINE)**
(For NORMAL, HIGH and METAL tape)
Adjust the bias according to the tape characteristics. Standard biasing is obtained at the center click-stop position.
- 10 Balance Control (BALANCE)**
This is the knob to adjust the recording level balance between the left and right channels. Turn it counter-clockwise to reduce the right channel's level and clockwise to reduce the left channel's. Usually, put the knob at the center click position.
- 11 Remote Sensor (REMOTE SENSOR)**
With the cassette deck the remote control unit is not included.
Each of "PLAY, FF, REW, STOP, REC PAUSE and REC/REC MUTE" functions can be remote controlled with wireless handset of the receiver (DRA Series receivers). For details refer to the DRA Series operating instructions.
- 12 Input Level Control (INPUT LEVEL)**
The recording input level is adjusted by this knob. The levels in the left and right channels can be changed simultaneously.
- 13 Phones jack (PHONES)**
For private music enjoyment without disturbing others, or for monitoring a recording, a set of headphones may be plugged in. Impedance should be from 8 to 1200Ω/ohms.

Caution:
Whenever the power switch is in the OFF state, the apparatus is still connected on AC line voltage. Please be sure to unplug the cord when you leave home for, say, a vacation.

13 Tape Transport Buttons

| | | |
|----|---------------------|--|
| ▶ | Play Button | Press to playback tape. |
| ■ | Stop Button | Press to stop the tape in any mode. |
| ◀◀ | Fast Rewind Button | Press for fast rewind. |
| ▶▶ | Fast Forward Button | Press for fast forwarding. |
| ● | Rec/Rec Mute Button | Press the REC/REC MUTE (●) button and PLAY button simultaneously to start recording. If only the REC/REC MUTE (●) button is pressed, the deck enters the Recording Pause mode. Pressing this button in the Recording Pause mode will start Auto Rec Mute, and a 5-second silent space is recorded onto the tape. |
| ⏸ | Rec Pause Button | Press this button to enter the recording pause mode from the recording or recording mute mode. This button can only be used during recording. |

15 Display
Indicators with an encircled number light up when the corresponding button is pressed.



16 Phone Level Control (PHONE LEVEL)
Head phone output level is adjusted by this knob. The levels in the left and right channels can be changed simultaneously.

17 Timer Switch (TIMER)
This switch is provided for use with an optional audio timer for unattended recording or morning-alarm playback. For non-timer operation, this switch should be set in the "OFF" position. See page 12.

CASSETTE TAPE

■ Handling Precautions

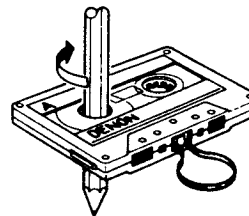
- C120 Cassettes
C120 cassette are not recommended as they use a very thin tape base which may become tangled around the capstan or pinchroller.
- Tape Slack
Before putting a tape into the deck, take up any slack with a pencil or your finger tip. This precaution is also to prevent the tape from becoming entangled around the capstan or pinchroller.

■ Storage Precautions

- Do not store cassette tapes in a place where they will be subject to:
 - Extremely high temperature or excessive moisture
 - Excessive dust
 - Direct sunlight
 - Magnetic fields (near TV set or speakers)
- To eliminate tape slack, store your cassettes in cassette cases with hub stops

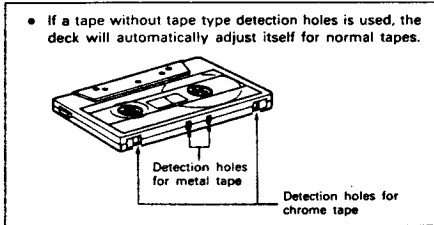
■ Accidental Erasure Prevention

- Every cassette has erasure prevention tabs for each side. To protect your valuable recorded tapes from accidental or inadvertent erasure, remove the tab for the appropriate side with a screwdriver or other tools.
- To record on a tape with the erasure prevention tabs removed, cover the tab holes with plastic tape.



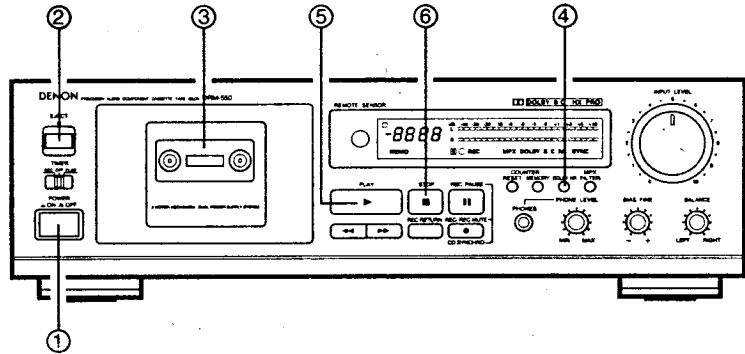
AUTO TAPE SELECT FEATURE

This Stereo Cassette Deck contains an Auto Tape Select feature which automatically selects the optimum bias and equalization for the tape in use. This is accomplished by detection of tape type detection holes in the cassette housing.

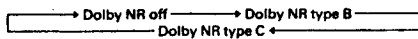


PLAYBACK

- Switch on your amplifier or receiver.
- Set the Tape Monitor switch on your amplifier or receiver to the TAPE position.
- The numbers in the illustration below depict the order in which operation steps are carried out.



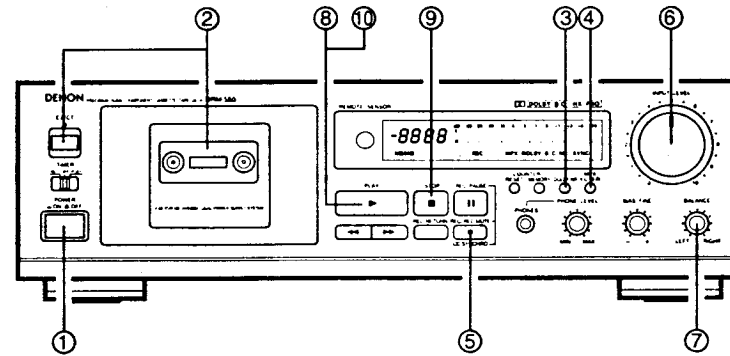
- 1 Press the POWER switch to the ON () position.
- 2 Press the EJECT () button to open the cassette compartment cover.
- 3 Load the cassette tape and close the cassette compartment cover.
- 4 When listening to a tape that has been recorded with Dolby noise reduction, set the DOLBY NR button to match the system used at the time of recording. Pressing the DOLBY NR button selects Dolby noise reduction type B (and the "B" indicator lights up). One more press of the DOLBY NR button selects Dolby noise reduction type C (and the "C" indicator lights up). Pressing the DOLBY NR button once again switches Dolby noise reduction off.



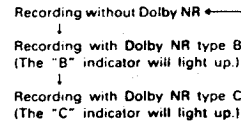
- 5 Press the PLAY () button to begin playback. The "▷" indicator will light during playback.
- 6 Press the STOP () button to stop the playback.
 - If different types of Dolby noise reduction are used for record and playback, playback response will be adversely effected.
 - When power is turned off during tape transport, it may not be possible to remove the cassette by pressing the EJECT () button. In this case, turn on power again before you press the EJECT () button.

RECORDING

- Switch on your amplifier or receiver and the source component.
- Set the Tape Monitor switch on your amplifier or receiver to the SOURCE position.



- 1 Press the POWER switch to the ON () position.
- 2 Load the cassette tape. (Check that the erasure prevention tabs of the cassette housing have not been broken off.)
- 3 Press the DOLBY NR button and select the Dolby NR type that suits the recording.



- 4 Turn the MPX FILTER button on to record FM broadcasts in Dolby NR. The "MPX" filter indicator will light up.
- 5 Press the REC/REC MUTE () button to set the recording pause mode. The "REC" indicator will light up.
- 6 Adjust the recording level with the INPUT LEVEL control while watching the Peak Level Meter.
- 7 Use the BALANCE control knob to adjust the balance of the left and right channel recording input level.
- 8 Press the PLAY () button to start the recording. The "▷" and the "REC" indicator will light during recording.
- 9 To pause the recording, press the REC PAUSE () button. Press the PLAY () button to resume recording.
- 10 To stop recording, press the STOP () button.

Caution:

- Be careful not to erase important recordings by mistake. Inadvertent start of recording will happen in the following cases:
 1. If the PLAY () button is pressed while the "REC" indicator lights, recording starts.
 2. If the PLAY () and REC/REC MUTE () button are pressed at the same time, recording starts.
 The best way to avoid accidental erasure is to break off the two erasure prevention tabs on the cassette housing.
- Always press the STOP button before turning off the power during recording.

PROPER RECORDING LEVEL

A too high recording level can saturate the tape and cause distortion. On the other hand, if the recording level is set too low, soft passages will be marked by residual noise. A proper recording level is the single most important factor for making well balanced recordings.

Guideline for maximum recording level

| | |
|-----------------|----------------------|
| TYPE I (Normal) | +1 dB level on peaks |
| TYPE II (High) | +3 dB level on peaks |
| TYPE IV (Metal) | +5 dB level on peaks |

Note: The optimum recording level differs depending on the program source and the type of tape used.

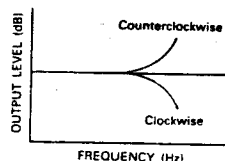
RECORDING BIAS ADJUSTMENT

For best recording results, monitoring during recording and comparing different recordings using your own judgement are essential.

The DENON cassette deck is equipped with a BIAS FINE control to assist you in setting the proper bias for different types and brands of tape. At the center stop-click position, the deck is set to the reference bias level for Normal, High and Metal tape. If the resulting recording in this position has too much or too little high frequency content, adjusting the BIAS FINE control can be useful to achieve better results.



If the high frequencies (treble sounds) are to be boosted, turn the BIAS FINE control counter-clockwise to decrease the bias current. Turn the control clockwise to increase bias current. By the use of this control, you can record tapes with a frequency response that will perfectly match your listening taste.



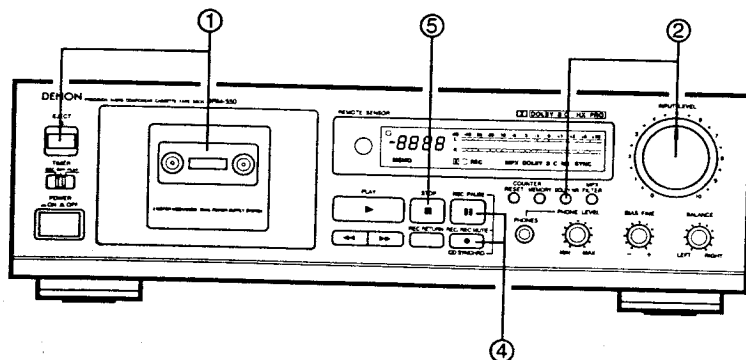
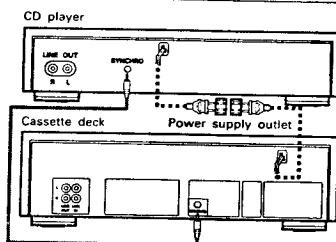
REC/REC MUTE AND REC PAUSE Button

- To record a 5-second blank section during recording:
Press the REC/REC MUTE (●) button. A 5-second blank will be recorded and the deck will enter the recording standby mode.
- To record a 5-second blank section during the recording standby mode:
Press the REC/REC MUTE (●) button from the recording standby mode. A 5 second blank will be recorded and the deck will enter the recording standby mode again.

- To cancel recording of blank space:
Press the REC PAUSE (⏏) button. Blank space recording will be cancelled and the deck enters the recording standby mode.
- To extend the blank section with another 5 seconds or more:
Simply press the REC/REC MUTE (●) button and the blank section will be increased with another 5 seconds.

SYNCHRONIZED RECORDING FUNCTION

- Convenient synchronized recording can be performed when used in combination with a DENON CD player equipped for the synchronized recording function.
- SYNCHRO Jack Connection Connect the SYNCHRO Jack with a DENON CD player which is equipped with a SYNCHRO jack, then make a synchronized recording. Use the connection cord supplied with this cassette deck.
- Switch on your amplifier or receiver and the CD player.
- Set the tape Monitor switch on your amplifier or receiver to the source position.

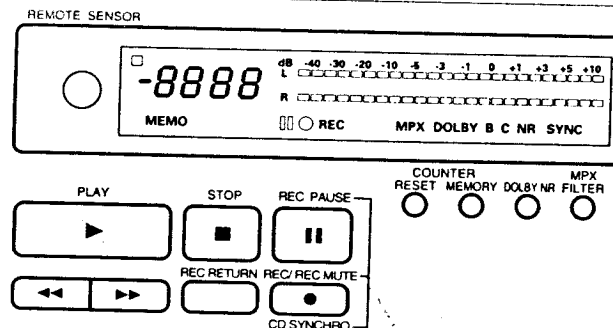


- Load the tape, the disc you want to record into the CD player.
- Following the recording instructions on page 9, set the Dolby NR mode, and the input level.
- Set the CD player to the stop or pause mode.
- Press the REC/REC MUTE (●) button and REC PAUSE (⏏) button simultaneously. The cassette deck and CD player are automatically set to the synchronized recording mode. The "SYNC" indicator flashes on the cassette deck and the synchronized recording mode is indicated on the CD player. (For details, refer to the CD player's operating instructions.)
- To stop synchronized recording, press the stop button. The synchronized recording mode is cancelled for both the cassette deck and CD player.
- To stop synchronized recording temporarily, press the stop button on the CD player. A 5-second blank space is created on the tape, after which the recording pause mode is set. The "SYNC" indicator flashes. To resume synchronized recording, press the PLAY button on the CD player.

Note:

- If synchronized recording is started when the CD player is in a mode other than the stop or pause mode or when no disc is set, the "SYNC" indicator on the cassette deck flashes and the recording pause mode is set until synchronized recording is possible on the CD player.
 - In the synchronized recording mode, only the STOP button will function.
- Caution:**
- Do not set the cassette deck to the synchronized recording mode when the CD player is in the play mode. Also, do not turn off the power of the cassette deck or the CD player during synchronized recording. Doing so can result in malfunction.
 - During the editing operation, when using the editing functions on the CD player, be sure to select a tape with a sufficiently long recording time.

TAPE COUNTER AND MEMORY STOP



- Operation of the Tape Counter**
 - Press the RESET button to reset the counter to "0000".
 - By using the PLAY, FF, or REW functions, the reading of the counter will change to indicate index position.
- MEMORY STOP Operation**
 - During recording or playback, the Memory Stop feature can be used to locate a particular point on the tape. Press the COUNTER MEMORY button at the desired point.

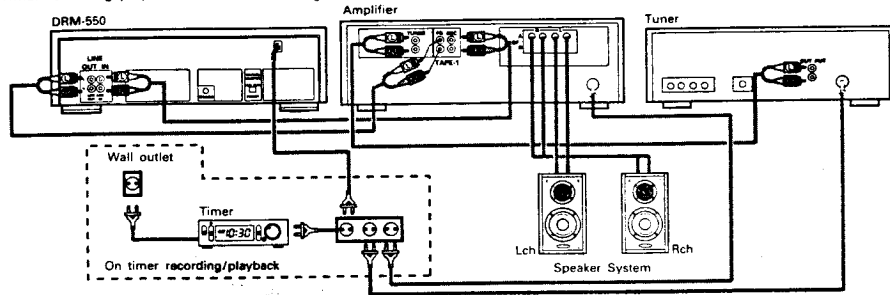
- The "MEMO" indicator lights.
- When the Rewind (⏮) button is pressed, the tape is rapidly rewound until the counter indication of "0000" is reached.
- The Memory Stop feature will rewind the tape to within -5 counts (from "0000" to "-0005"). After this, several seconds are required for corrective operations.

- Display Back-up**
The functions DOLBY NR, MPX FILTER and the counter content are protected by 24-hour memory back-up. After 24 hours DOLBY NR and MPX FILTER are set to "OFF" and the counter content is reset to "0000".

Caution:
If the memory stop operation is performed after repeated fast-forwarding or rewinding, the tape may not stop at the proper position.

TIMER RECORDING / PLAYBACK

Timer recording/playback can be made using any audio timer available on the market.



● Timer recording procedure

1. Make sure the connections are correct, especially the power supply connections.
2. Turn "on" the power switch of each appliance.
3. Tune the desired station on the tuner.
4. Load the tape for recording. (Make sure the erase prevention tab is not broken off; if it is, cover the hole with plastic tape).
5. Set the Dolby NR button to the appropriate position.
6. Make sure the monitor switch of the Amplifier to the SOURCE position.
7. Adjust the recording input level.
8. Set the starting position of the tape.
9. Set the timer switch (TIMER) to the "REC" side.



10. Set the audio timer to the desired time. The audio timer will turn the power supply on at the desired time.

* With the above procedures, timer controlled recording can be made. When the preset time comes, the power is supplied and the FM broadcast can be recorded.

● Timer playback procedure

1. Make sure the connections are correct, especially the power supply connections.
2. Turn "on" the power switch of each appliance.
3. Load the pre-recorded tape to be played back.
4. Set the Dolby NR switches to the appropriate positions.
5. Set the monitor switch of the Amplifier to the TAPE position.
6. Press the PLAY (▶) button and playback the tape; adjust the playback level.
7. Set the timer switch (TIMER) to the "PLAY" side.



8. Set the audio timer to the desired time. The audio timer will turn the power supply on at the desired time.

* With the above procedures, timer playback can be accomplished. When the preset time comes, the power is supplied and playback will start.

Note:

- Please read the operating instructions for the timer before use.
- If the timer recording or playback is not desired, be sure to switch the timer switch (TIMER) to "OFF".
- When using timers that allow several "on/off" operations, timer start functioning can continue an unlimited number of times until the tape in the machine is finished.

DIMMER ADJUSTMENT

With the DRM-550, the brightness of the display can be adjusted in seven steps.

To make the display brighter, press the fast forward (▶▶) button while holding the STOP button.

To make the display dimmer, press the fast rewind (◀◀) button while holding in the STOP button.

The display is initially set to the maximum brightness.

MUSIC SEARCH SYSTEM

This device is a convenient system which detects the non-recorded part of more than 4 seconds between melodies, cues the next melody while the present melody is being reproduced or automatically detects the beginning of the melody now being reproduced and makes it into the reproduceable state.

1. For cueing the next melody while the present melody is being reproduced:
Press the PLAY button, keep it pressed in, and press the Fast Forward (▶▶) button. The tape transport indicator (▶▶) flashes. This device will detect the interval between melodies with the CUE state on, automatically become the PLAY mode and begin performing the next melody.
2. For hearing again the melody now being reproduced:
Press the PLAY button, keep it pressed in, and press the Rewind (◀◀) button. The tape transport indicator (◀◀) flashes. This device will detect the interval between melodies with the REVIEW state on, automatically become the PLAY mode, detect the beginning of the melody now being performed and play it from the first again.

DOLBY B AND C NOISE REDUCTION SYSTEM

- The Dolby noise reduction system substantially reduces the tape background noise (hiss) inherent in the cassette medium. Dolby B NR is most widely in use. However Dolby C NR is a much more recent development and represents significant improvements over Dolby B NR.
- Tape background noise consists primarily of high frequency information, which is particularly annoying during soft passages. The Dolby NR system increases the level of low volume mid- and high-frequency signals during recording and reduces the level of these signals by an identical amount during playback. As a result, the playback signal is identical to the original source, but the level of background noise generated by the tape is greatly reduced.

■ The operating principle of Dolby C NR is similar to that of Dolby B NR except for the encoding/decoding response curves. The noise reduction effect obtained with Dolby C NR is up to 20 dB, compared to 10 dB with Dolby B NR. In addition, Dolby C NR uses an anti-saturation network and spectral skewing circuitry for a significant improvement in the dynamic range of the mid- to high-frequencies.

DOLBY HX-PRO HEADROOM EXTENSION SYSTEM

This deck is equipped with the Dolby HX-PRO headroom extension system. Since the system functions automatically during recording, no switching operation or adjustment is required. The system is effective with any type of Normal, High and Metal tape. The Dolby HX-PRO headroom extension system functions during recording to raise the saturation level in the treble range. Therefore, most of the treble range components distorted or lost during recording on conventional cassette decks are more faithfully recorded on the new DENON cassette deck.

Features of the Dolby HX-PRO Headroom Extension System

- (1) Performance of Normal and High tapes can be improved to very close of that offered by Metal tape.
- (2) The dynamics in the treble range are improved significantly.
- (3) Since no decoding is necessary during playback, the improved sound can be enjoyed on any type of tape deck, including portable players and car audio systems.
- (4) The system functions whether the Dolby B/C NR system is engaged or not.

MAINTENANCE

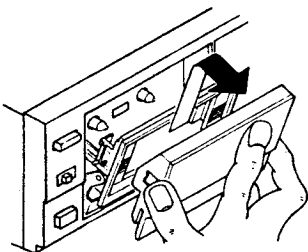
■ Removing the cassette compartment cover

It will be more convenient if the cassette compartment cover is removed during the cleaning of the pinchroller and heads, or during demagnetizing of heads.

Follow these procedures:

1. Press the EJECT button to open the cassette compartment.
2. Hold only the cover of the cassette compartment and pull it up. The compartment cover is removed from the front.

When attaching the cassette compartment cover, reverse the above procedure.

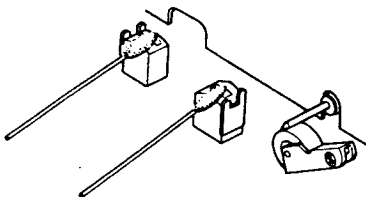


■ Head cleaning

After long usage, tape coating or dust may adhere to the heads, causing deterioration of sound. Clean them regularly. Use a cotton swab moistened with cleaning solution (such as alcohol).

Note:

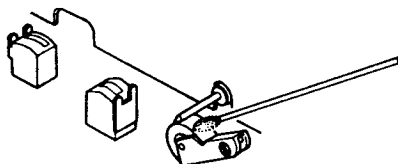
1. Some cleaning cassettes on the market have a strong abrasive effect and scratch the heads. Use cotton swabs instead of cleaning cassettes.
2. Since the use of metal tapes is apt to collect more dust on the heads, clean the heads more often to enjoy optimum sound.



■ Cleaning the pinchrollers and capstans

If the pinchroller or capstans accumulate dust, tape transport may become unstable resulting from slippage during recording or playback. The tape can also be damaged by being rolled up around the capstan.

Clean them with a cotton swab or a soft cloth moistened with cleaning solution (such as alcohol).



■ Demagnetizing the heads

The heads may become magnetized after long usage or by having a strongly magnetized object brought near them. The result is a generation of noise, loss of the high frequency range, or erasing the treble components of pre-recorded tapes and adding noise.

Demagnetize the heads on a regular basis.

■ Procedure

1. Be sure to turn "off" the power supply.
2. Turn the demagnetizer "on" while it is more than 30 cm away from the heads. Bring the demagnetizer near the heads and slowly move it in a small circle four or five times.
3. Slowly move the demagnetizer away from the heads and turn "off" the power of the demagnetizer when it is about 30 cm away from the heads.

TROUBLESHOOTING

Make sure of the following before you consider as any malfunctions.

1. Are all the connections correct?
 2. Is the set being operated correctly in accordance with the operating instructions?
 3. Are the speakers and amplifiers functioning correctly?
- If the tape deck still does not function properly, check it again, using the check list below. If the symptom does not correspond to the check list, please contact your DENON dealer.

| Problem | Cause | Remedy |
|--|--|--|
| Tape does not run. | <ul style="list-style-type: none"> • Power cord is off. • Tape is completely wound up. • Tape is loose. • Cassette is not loaded properly. • Defective cassette. | <ul style="list-style-type: none"> • Check power cord. • Rewind tape. • Tighten tape with a pencil, etc. • Load cassette properly. • Replace cassette. |
| Tape is not recorded when recording button is pressed. | <ul style="list-style-type: none"> • No cassette is loaded. • Erase prevention tab is broken off. | <ul style="list-style-type: none"> • Load cassette. • Cover hole with plastic tape. |
| Sound is warbled or distorted. | <ul style="list-style-type: none"> • Heads, capstan or pinchroller are contaminated. • Tape is wound too tight. • Recording input level is too high. • Tape is worn out and has "drop-outs". | <ul style="list-style-type: none"> • Clean them. • Fast forward or rewind to loosen tape winding. • Adjust recording input level. • Replace tape. |
| Excessive noise. | <ul style="list-style-type: none"> • Tape is worn. • Heads, capstan or pinchroller are contaminated. • Heads are magnetized. • Recording input level is too low. | <ul style="list-style-type: none"> • Replace tape. • Clean them. • Demagnetize heads. • Adjust recording input level. |
| High frequency (treble) is emphasized. | <ul style="list-style-type: none"> • Dolby NR button is set improperly. | <ul style="list-style-type: none"> • Set Dolby NR button properly. |
| High frequency (treble) is lost. | <ul style="list-style-type: none"> • Heads are contaminated. • Tape is worn. | <ul style="list-style-type: none"> • Clean them. • Replace tape. |
| The cassette tape cannot be removed. | <ul style="list-style-type: none"> • If the power switch is turned off in either the recording or playback mode, and the unit is stopped, there may be case when the cassette cannot be removed, even if the EJECT button is pressed. | <ul style="list-style-type: none"> • Turn the power switch ON again, and then press the stop (■) button. • Then, in the stop mode, press the EJECT button to remove the cassette tape. |

SPECIFICATIONS

| | | | |
|-------------------------------------|---|-------------------|--|
| Type | Vertical tape loading; 4-track 2-channel stereo cassette deck | Inputs line | 80 mV (-20 dBm) input level at maximum input impedance: 50 kΩ / kohm unbalanced |
| Heads | Record/Playback (R/P head) × 1 | Outputs line | 775 mV (0 dB) output level at maximum (with 47 kΩ / kohm load, recorded level of 200 pwb/mm) |
| Motors | Erase head (Double-gap ferrite head) × 1 Capstan (DC servo motor) × 1 Reel (DC motor) × 1 | headphones | 1.2 mW output level at maximum (optimum load impedance 8 Ω / ohm ~ 1.2 kΩ / kohm) |
| Tape Speed | 4.8 cm/sec. | Power Supply | 220 V 50 Hz |
| Fast Forward, Rewind Time | Approx. 110 sec. with a C-60 cassette | Power Consumption | 18 W |
| Recording Bias | Approx 105 kHz | Dimensions | 434 (W) × 135 (H) × 270 (D) mm (17-3/32" × 4-59/64" × 10-53/64") |
| Overall S/N Ratio (at 1% THD level) | Dolby C NR on: more than 74 dB (CCIR/ARM) | Weight | 3.8 kg (8 lbs 6 oz) |
| Overall Frequency Response | 25 ~ 18,000 Hz ±3 dB (at -20 dB, Metal tape) | | |
| Channel Separation | More than 40 dB (at 1 kHz) | | |
| Crosstalk | More than 65 dB (at 1 kHz) | | |
| Wow & Flutter | 0.055% WRMS, ±0.14% w. peak | | |

* Design and specifications are subject to change without notice in the course of product improvement.

Best results will be obtained with use of DENON GR Series cassette tapes.

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

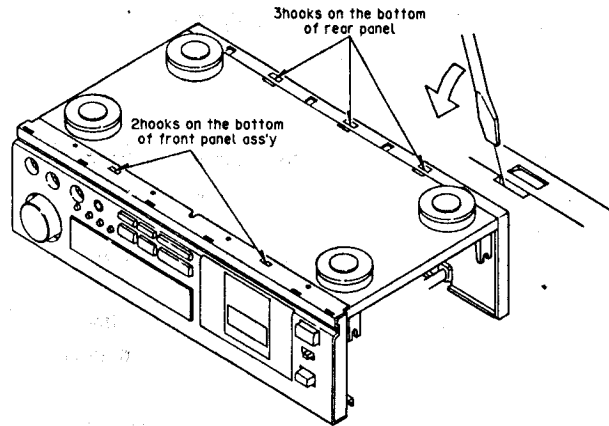
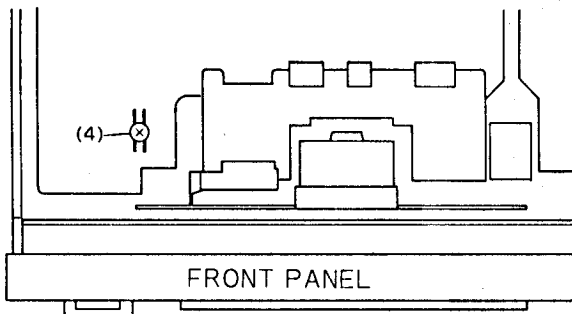
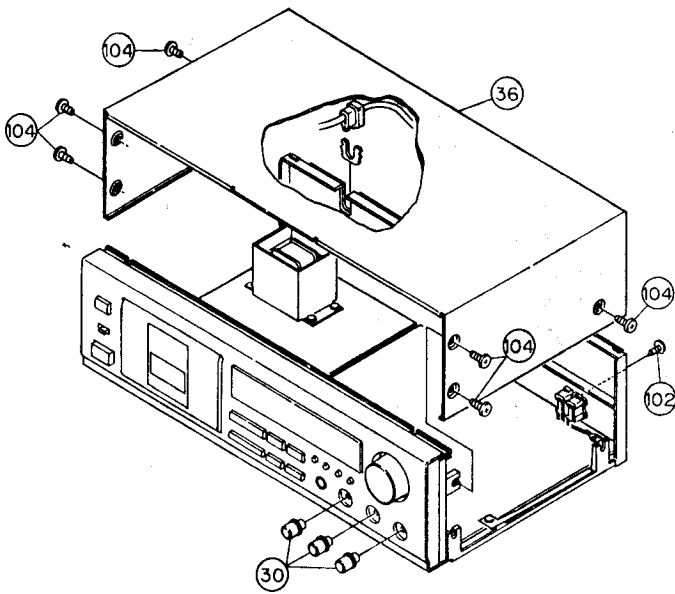
"DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

DISASSEMBLY INSTRUCTIONS

1. How to Remove the Front PANEL A'ssy

- (1) Remove the six screws (4X10CBTS(P)-B) (104) in the side of the top cover (36). Move the top cover to the rear and rise it to remove it.
- (2) Disconnect all lead connectors.

| | | |
|----------|--------------------------|----------|
| C. MECHA | ERASE Head wire → CB143 | POWER |
| | PB/REC Head wire → CB141 | AUDIO |
| DISPLAY | { CW-253 → CB253 | POWER |
| | { CW121 → CB121 | AUDIO |
| | { CW122 → CB122 | AUDIO |
| VR | CW131 → CB131 | |
| SW | CW-254 → CB254 | POWER |
| POWER | { CW191 → CB191 | AUDIO |
| | { CW255 → CB255 | C. MECHA |
- (3) Remove the Volume knob (30).
- (4) Remove the screw (3X8CBTS(S)-B) (101).
- (5) Remove the two Hooks on the bottom, Front Panel Ass'y can be removed towards the front.



2. How to Remove the Cassette Mechanisms

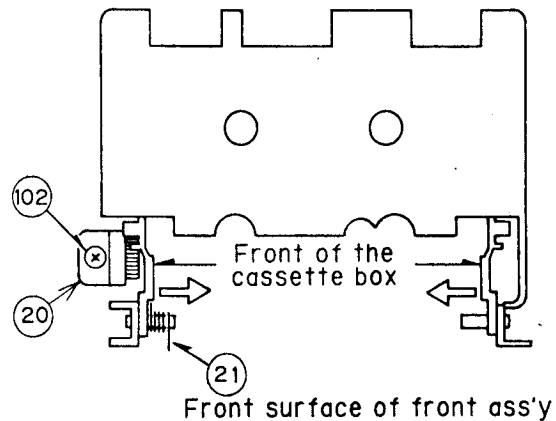
Remove the four mechanism retaining screws (3X8CBTS(P)-B) (102), and take out C. Mechanism.

3. How to Remove the Display P.W. board

- (1) DISPLAY { CW251 → CB251 } C. MECHA
 { CW252 → CB252 }
- (2) Remove the seven Display P.W. board retaining screws (3X8CBTS(P)-B) (102) and take out the Display P.W. board.

4. How to Remove the Cassette Door

- (1) Remove the Mini Damper (20) retaining screw (3X8CBTS(P)-B) (102) and take out the Mini Damper (20).
- (2) Hold the legs of the CASSETTE BOX folded inwards and pull up to remove the CASSETTE BOX (18) and BOX SPRING (21).



5. How to Remove the Rear panel

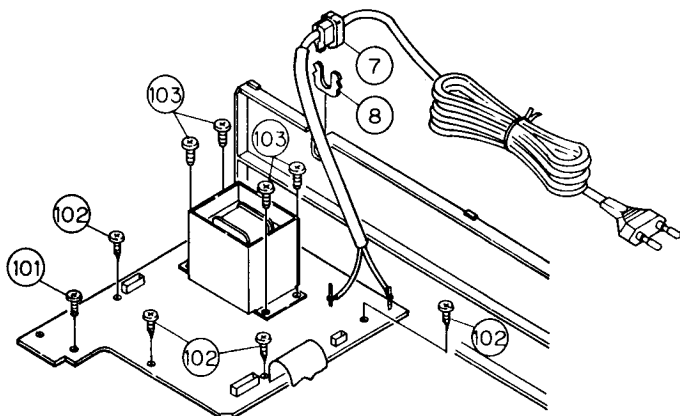
- (1) Remove the top cover (36) and front Panel. Ass'y. (Refer to section 1.)
- (2) Remove the screw (3X8CBTS(P)-B) (102) that is holding the 4P pin jack.
- (3) Remove the busing (7) (8) that is fixing AC cord from rear panel (9).
- (4) Remove the three hooks on the bottom of rear panel (9) and pull the unit back to detach it.

6. How to Remove the Audio P.W. Board

- (1) Remove the top cover (36) and the front esc. Ass'y. (Refer to section 1.)
- (2) Remove the screw (3X8CBTS(P)-B) (102) that is holding the 4P pin jack.
- (3) Remove the connectors from the audio P.W. board and power P.W. board.
power P.W. board CW191 → CB191 audio P.W. board
- (4) Remove the six screws (3X8CBTS(P)-B) (102), the audio P.W. board can be removed by rising it.

7. How to Remove the Power Supply P.W. board

- (1) Remove the top cover (36). (Refer to section 1.)
- (2) Remove the busing (7) (8) that is fixing AC cord from rear panel (9).
- (3) Remove the connectors from the audio P.W. board and power P.W. board.
power P.W. board CW191 → CB191 Audio P.W. board
- (4) Remove the nine screws (4X10CBTS(P)-Z) (103), (3X8CBST(P)-B) and (3X8CBTS(S)-B) (102) that are holding the power transformer and P.W. board. The power P.W. board can be removed by rising it.



ADJUSTING AND CHECKING THE MECHANISM SECTION

1. Replacing the Pinch Roller (31)

Before replacing the pinch roller, clean the tape contact surface of the pinch roller and the capstan shaft.

Most causes of poor tape transport can be traced to dirty pinch roller and capstan shaft.

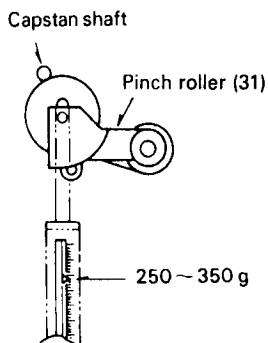
Remove the clips that press the pinch roller and pull the pinch roller forward to remove it.

After replacing, run a padless C-90 tape to check for tape curls at the tape guide section of the head.

2. Checking the Pressure Force of the Pinch Roller (31)

In the playback mode, hook a spring weight onto the bracket at the center of the pinch roller. After separating the pinch roller from the capstan shaft, allow the pinch roller to contact the capstan shaft again. Check to make sure the spring weight reads between 250 ~ 350 g when the pinch roller starts to rotate.

Replace the pinch roller (36) when it does not conform to the standard specification values.



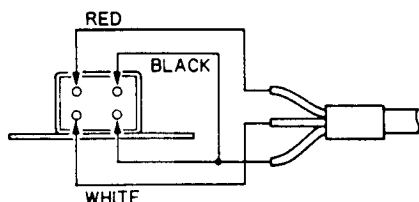
3. Replacing the Record/Playback Head (3-9)

- (1) How to remove the R/P HEAD.
 - 1) Remove securing screw and azimuth adjusting screw (1) from the record/playback head.
 - 2) Remove the soldered head wire and disassemble the mechanical unit to remove the record/playback head.
- (2) How to assemble the R/P HEAD.
 - Reverse the above (1) procedures for removing the R/P HEAD.

* Solder the HEAD WIRE according to the diagram.

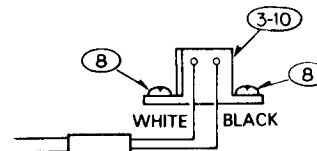
mechanism (recording/playback head)

- (2) Remove the three retaining screws 3 × 10 CBTS-(P)-B (51) holding the Front Escutcheon at the front.



4. Replacing the ERASE HEAD (3-10)

- (1) Unscrew the erase head holding screws (8).
- (2) By unsoldering the HEAD WIRES can be taken off the mechanism unit.
- (3) When the replacement is completed, secure the screws with the screw lock.



5. Checking the Take-up Torque

Load the cassette type torque meter (SONY TW2111). Check to make sure that the average torque meter reading is within 30-70 g-cm during playback. If it is not within this range, check the voltage (approx. 4V) of the reel motor. If the voltage is low, the torque will be weak; if it is high, the torque will be strong.

6. Checking the FF and REW Torques

Load the cassette type torque meter (SONY TW2231). Check to make sure the torque meter indicates within 90 ~ 180 g-cm at the end of FF and REW.

7. Checking the Back Tension Torque During Record/Playback

Load the cassette type torque meter (SONY TW2111); check to make sure the torque meter reads between 2 ~ 6 g-cm during playback and that there is no unevenness. If it is not within this range, replace the reel ass'y (5) or Washer.

8. Checking the FF and REW Times

Load a C-60 cassette tape (DENON GR-2/60); check to make sure the tape is fast forwarded or rewound within 110 seconds. If it is not within this range, check sections 5 and 6.

9. Checking the Existence of a Cassette Housing and the Operation of the Erase Prevention, Metal and Chrome Switch

Confirm that the sensor arm properly detecting the tape type detection holes on the cassette housing.

ADJUSTING AND CHECKING THE ELECTRICAL SECTION

• Caution on adjusting

- (1) Before adjusting, clean the head surface, capstan and the pinch roller with a gauze or a cotton swab moistened with alcohol.
- (2) Demagnetize the R/P HEAD and the E. HEAD with a head eraser.
- (3) Completely demagnetize the adjustment screwdriver.
- (4) Unless instructed otherwise, set the various controls as follows.
 - INPUT volume maximum
 - DOLBY NR switch OFF
 - BIAS FINE volume Center click position
 - BALANCE volume Center click position

1. Tape Transport Check

Load the transport check cassette. In the operational mode, illuminate the fixing guides of the R/P HEAD with a lamp and check to make sure the tape edge does not come in contact with the tape guide section.

The tape transport is the most important element in determining the performance of a cassette deck.

Avoid moving the various adjustment screws, nuts, etc., as much as possible. Refer to the pages on "Adjusting and Checking the Mechanism Section" when replacing or adjusting the R/P HEAD.

2. Adjusting the Azimuth

- (1) After completing the tape transport check, load the test tape (A-BEX TCC-153). Fig. 2-1
- (2) Playback the test tape; adjust the azimuth screw so that section A of the resurge wave form is maximum and section B is minimum. Fig. 2-2

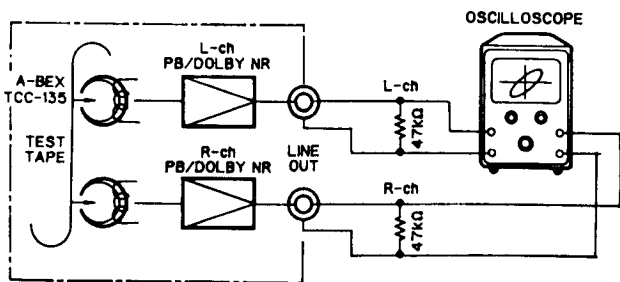


Fig. 2-1

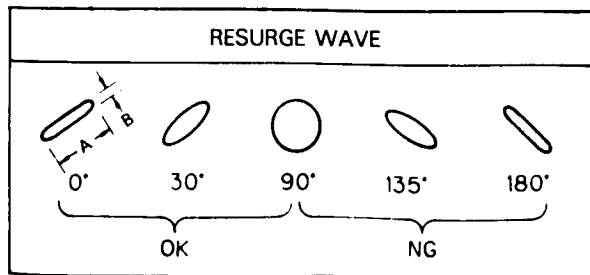


Fig. 2-2

EQUIPMENT FOR ADJUSTING AND CHECKING

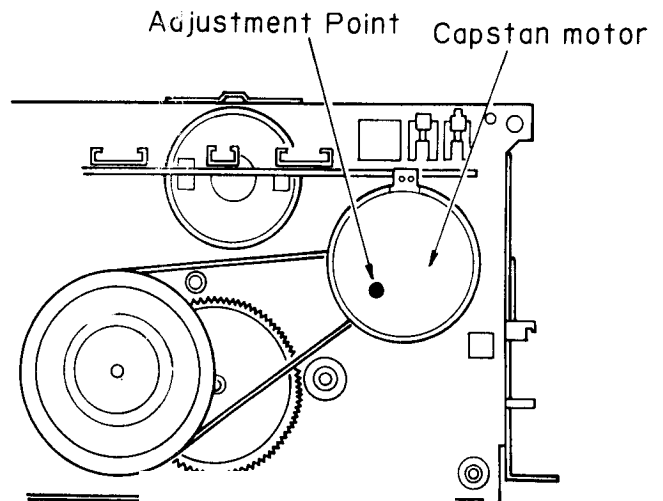
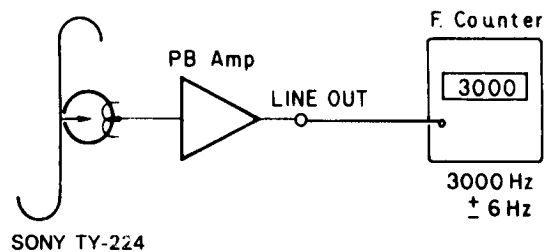
| 1) MEASURING TAPE | | TYPE NAME, BRAND AND USES |
|-------------------|-------|---|
| TYPE NAME | BRAND | USES |
| TW-2111A/2121A | SONY | Checking the Take-up Torque and Back Tension. |
| TW-2231 | SONY | Checking the FF and REW Torque. |
| GR-2/60 | DENON | Checking the FF and REW Tirhes. |
| TCC-153 | A-BEX | Adjusting the Azimuth. |
| TY-224 | SONY | Checking and Adjusting the Tape Speed. |
| TCC-130 | A-BEX | Adjusting the Playback Level. |
| TCC-162/262B | A-BEX | Checking the Playback Frequency Response. |
| TCC-902 | A-BEX | Transport checking cassette tape. |

2) MEASURING INSTRUMENT

Tension gauge
 Audio signal generator
 Variable resistance attenuator
 Electronic voltmeter
 Oscilloscope
 Frequency counter
 Adjustment screwdriver
 Trap coil adjustment square stick

3. Checking and Adjusting the Tape Speed

- (1) Connect the frequency counter to the LINE OUT terminal and load test tape (SONY TY-224).
- (2) Playback a test tape. At about halfway through the tape, where the tape transport is stable, adjust the adjustment points on the back of the capstan motor so that the frequency counter will have a reading within the range of 3,000 Hz ± 6 Hz.



4. Adjusting the Playback and Recording Section

| Procedure | Item | Usage tape — input condition | Response | Mode | Adjustment location | Adjustment procedure |
|-----------|--------------------|---|----------|----------------------------|--------------------------|---|
| 1 | PLAYBACK GAIN | A-BEX TCC-130 | Fig. 4-1 | PLAYBACK | RT-101 (L) RT-101 (R) | Adjust the LINEOUT output to 775 mV (0 dBs). |
| 2 | P.B. Frequency | A-BEX TCC-162B, 262B | Fig. 4-1 | PLAYBACK | | Make sure the playback characteristics conform to Figure 4-2. |
| 3 | REC/P.B. Frequency | GR-2/C60 1 kHz, -40 dB 10 kHz, -40 dB | Fig. 4-2 | REC. PLAY ↓ PLAYBACK | RT-105 (L) RT-205 (R) | Record 1 kHz and 10 kHz alternately. Adjust each volume so the 10 kHz playback output is 0.5 dB in relation to the 1 kHz playback output. |
| 4 | REC GAIN | GR-2/C60 1 kHz, -30 dB | Fig. 4-2 | REC. PLAY ↓ PLAYBACK | RT-103 (L) RT-203 (R) | Adjust each volume to the playback output is the same as when the recording monitor is output. |
| 5 | REC/P.B. Frequency | GR-2/C60 Dolby NR C | Fig. 4-3 | REC. PLAY ↓ PLAYBACK | | Make sure that the DOLBY NR C recording and playback characteristics conform to Figure 4-3. |

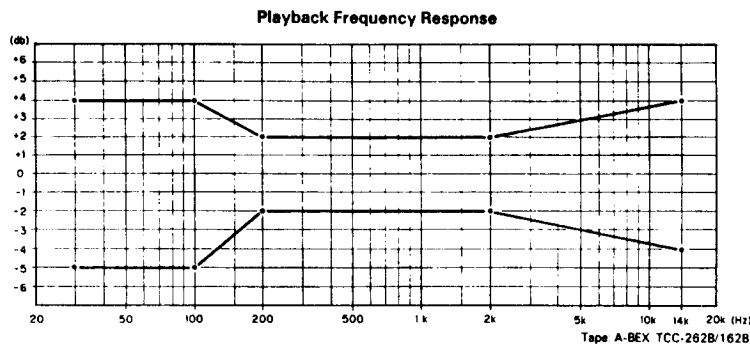


Fig. 4-1

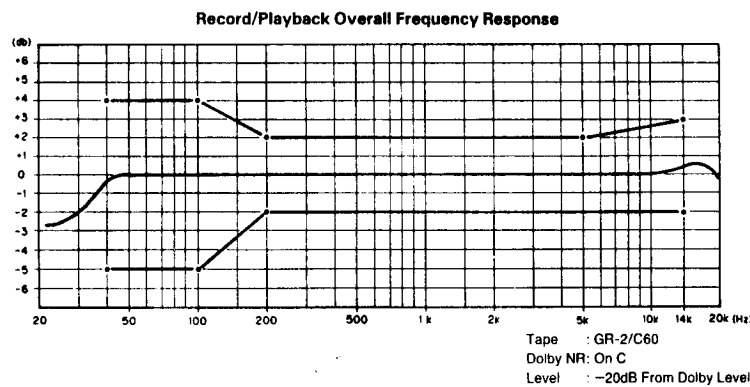


Fig. 4-2

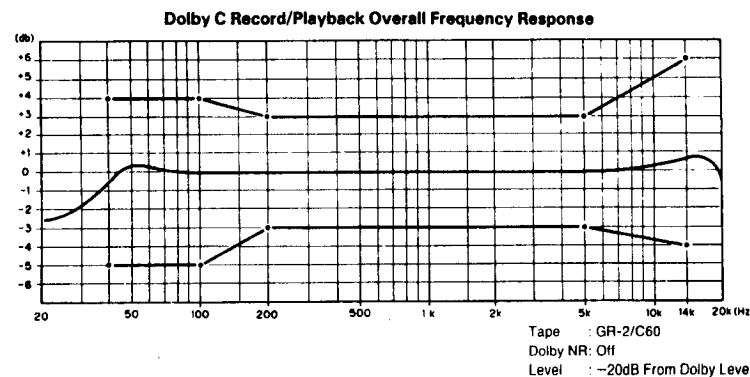
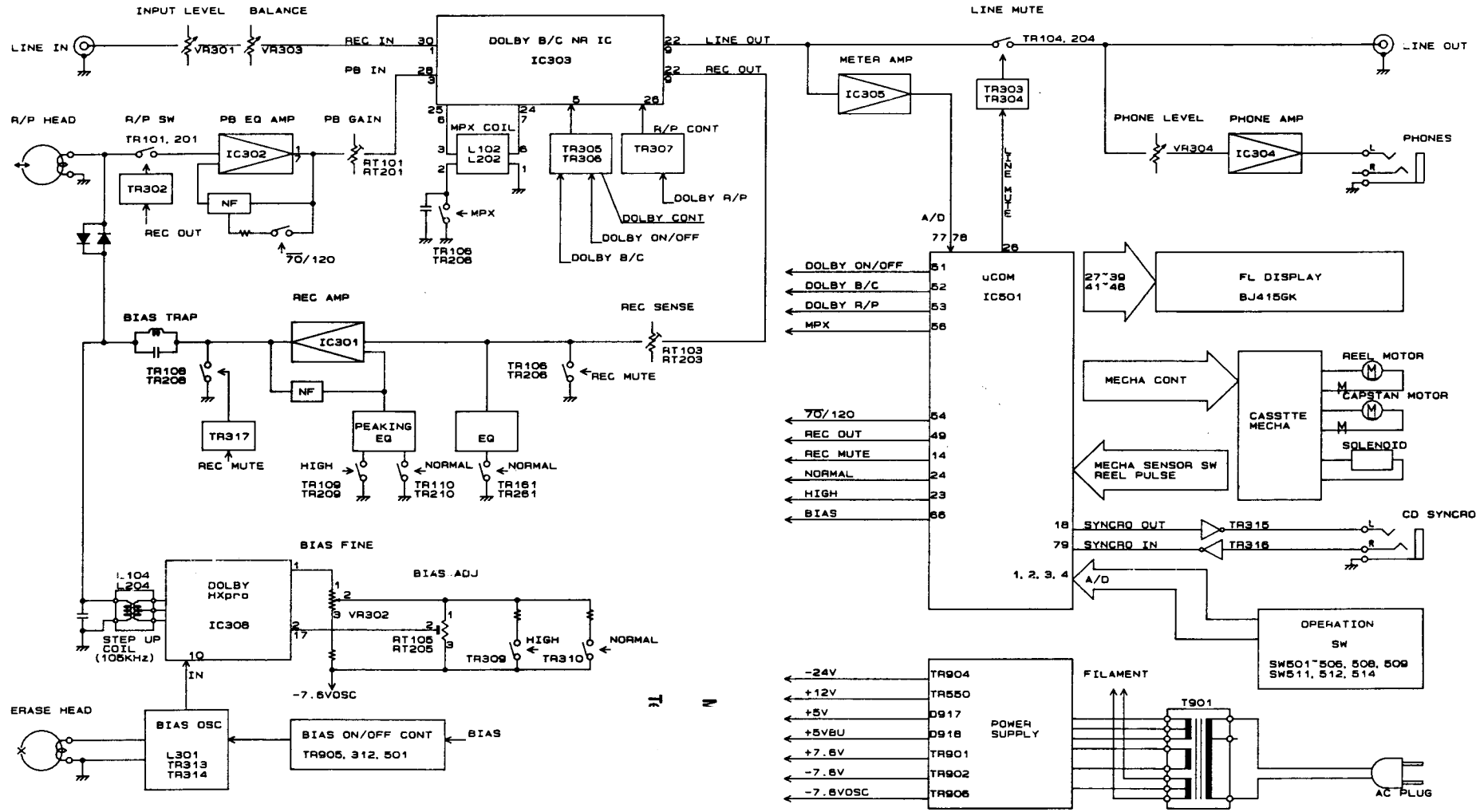


Fig. 4-3

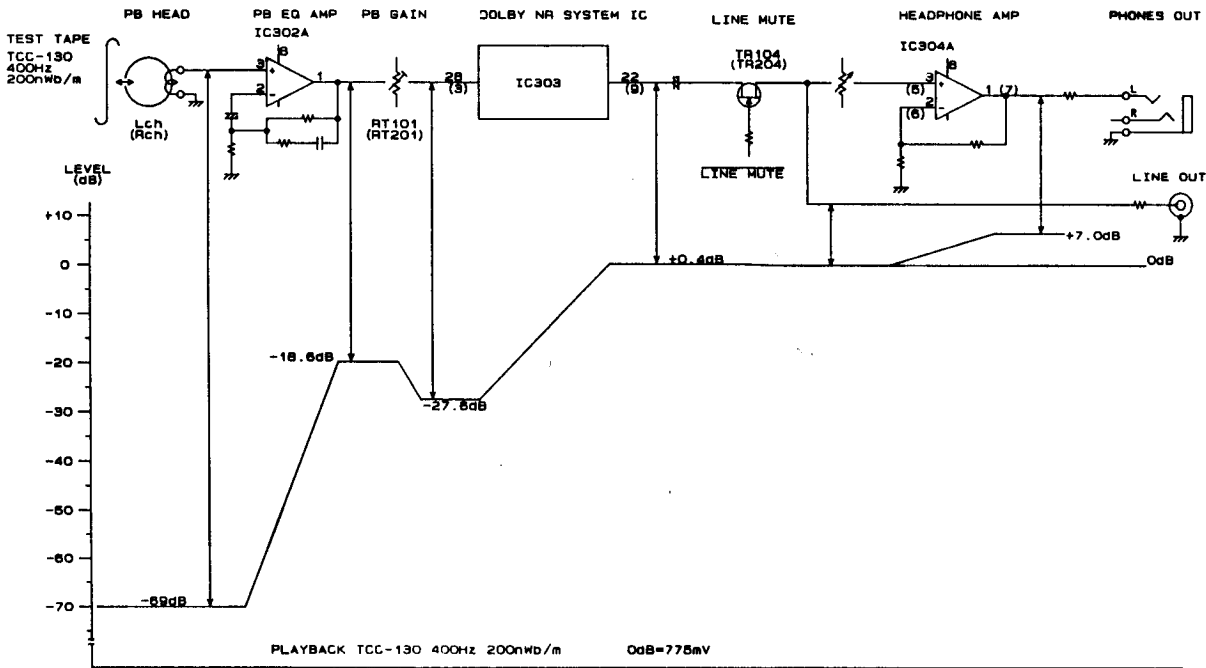
BLOCK DIAGRAM



LEVEL DIAGRAM

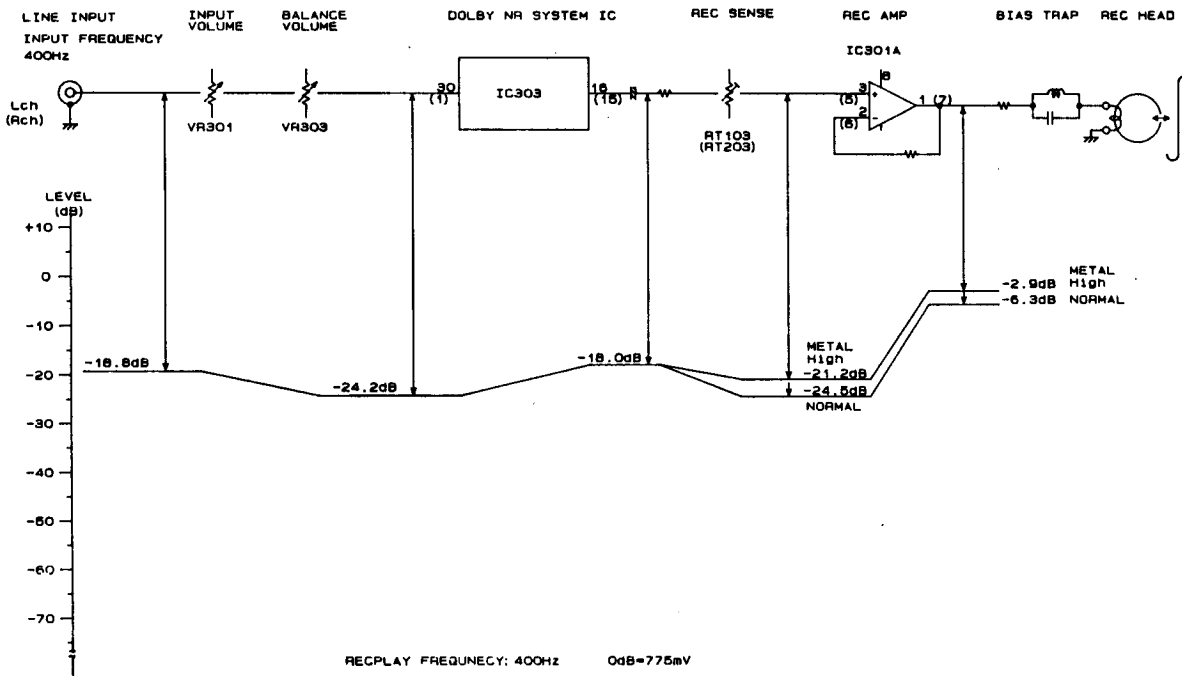
PLAYBACK SYSTEM

TCC-130 DOLBY LEVEL
400 Hz 200 nwb/m



REPLAY SYSTEM

FREQUENCY
400 Hz



PARTS LIST EXPLODED VIEW

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|---------------------------|--|------|
| 1 | KU-9336 | Audio P.W.B. unit Ass'y | | 1 |
| 1-1 | — | Audio P.W.B. unit | | |
| 1-2 | — | VR P.W.B. unit | | |
| 1-3 | — | H/P VR P.W.B. unit | | |
| 2 | KU-9337 | Display P.W.B. unit Ass'y | | 1 |
| 3 | KU-9338 | Power P.W.B. unit Ass'y | Europe, U.K., Australia, Asia & Hongkong models | 1 |
| 3-1 | — | Power P.W.B. unit | | |
| 3-2 | — | SW P.W.B. unit | | |
| 3 | KU-9338 U | Power P.W.B. unit Ass'y | U.S.A., Canada & Taiwan models | 1 |
| 3-1 | — | Power P.W.B. unit | | |
| 3-2 | — | SW P.W.B. unit | | |
| 5 | 206 2131 009 | AC cord | U.K. model | 1 |
| 5 | 206 2060 002 | AC cord | U.S.A., Canada & Taiwan models | 1 |
| 5 | 206 2063 009 | AC cord | Europe, Asia & Hongkong models | 1 |
| 5 | 206 2122 005 | AC cord | Australia model | 1 |
| 6 | 415 087 | Fl. tube (B.3) | | 1 |
| 8 | 412 2008 012 | Bushing plate | | 1 |
| 9 | 105 9263 208 | Rear panel | | 1 |
| 10 | 411 9142 101 | Chassis | | 1 |
| 11 | 113 1228 035 | Foot cap | | 4 |
| 12 | 461 0410 109 | Rubber pad | | 4 |
| 13 | 144 9237 006 | Front panel | Black | 1 |
| 13 | 144 9237 019 | Front panel | Gold | 1 |
| 14 | 103 9222 007 | Front esc. (L) | Black | 1 |
| 14 | 103 9222 010 | Front esc. (L) | Gold | 1 |
| 15 | 143 9191 000 | Meter window | | 1 |
| 16 | 129 0163 002 | Indicate sheet | | 1 |
| 17 | 103 9223 006 | Front esc. (R) | Black | 1 |
| 17 | 103 9223 019 | Front esc. (R) | Gold | 1 |
| 18 | 103 1372 502 | Cassette box | | 1 |
| 19 | 463 9079 000 | Cassette spring | | 2 |
| 20 | 421 9007 007 | Mini damper | | 1 |
| 21 | 463 0659 018 | Box spring | | 1 |
| 22 | 412 9485 007 | Eject lever (A) | | 1 |
| 23 | 412 9484 008 | Mecha.bracket | | 1 |
| 24 | 463 8238 004 | Spring | | 1 |
| 25 | 113 9334 002 | Eject button | Black | 1 |
| 25 | 113 9334 015 | Eject button | Gold | 1 |
| 26 | 113 9335 014 | Timer button | Gold | 1 |
| 26 | 113 9335 001 | Timer button | Black | 1 |
| 27 | 113 9331 005 | Function button | Black | 1 |
| 27 | 113 9331 018 | Function button | Gold | 1 |
| 28 | 113 9332 017 | Push button | Gold | 1 |
| 28 | 113 9332 004 | Push button | Black | 1 |
| 29 | 113 9333 003 | Power button | Black | 1 |
| 29 | 113 9333 016 | Power button | Gold | 1 |
| 30 | 112 9142 000 | Volume knob | Black | 3 |
| 30 | 112 9142 013 | Volume knob | Gold | 3 |
| 31 | 112 0515 144 | Volume knob | Gold | 1 |
| 31 | 112 0515 131 | Volume knob | Black | 1 |
| 32 | 338 9030 002 | Cassette mecha. | | 1 |
| 33 | 445 8004 007 | Wire clasper | | 2 |
| 34 | 412 3758 002 | Dressing plate | | 1 |
| 35 | 414 0595 015 | Earth plate | | 1 |
| 36 | 102 9050 108 | Top cover | Black | 1 |
| 36 | 102 9050 111 | Top cover | Gold | 1 |
| 37 | 103 9206 201 | Cassette door | Black | 1 |
| 37 | 103 9206 214 | Cassette door | Gold | 1 |
| 38 | 143 9192 009 | Window | | 1 |

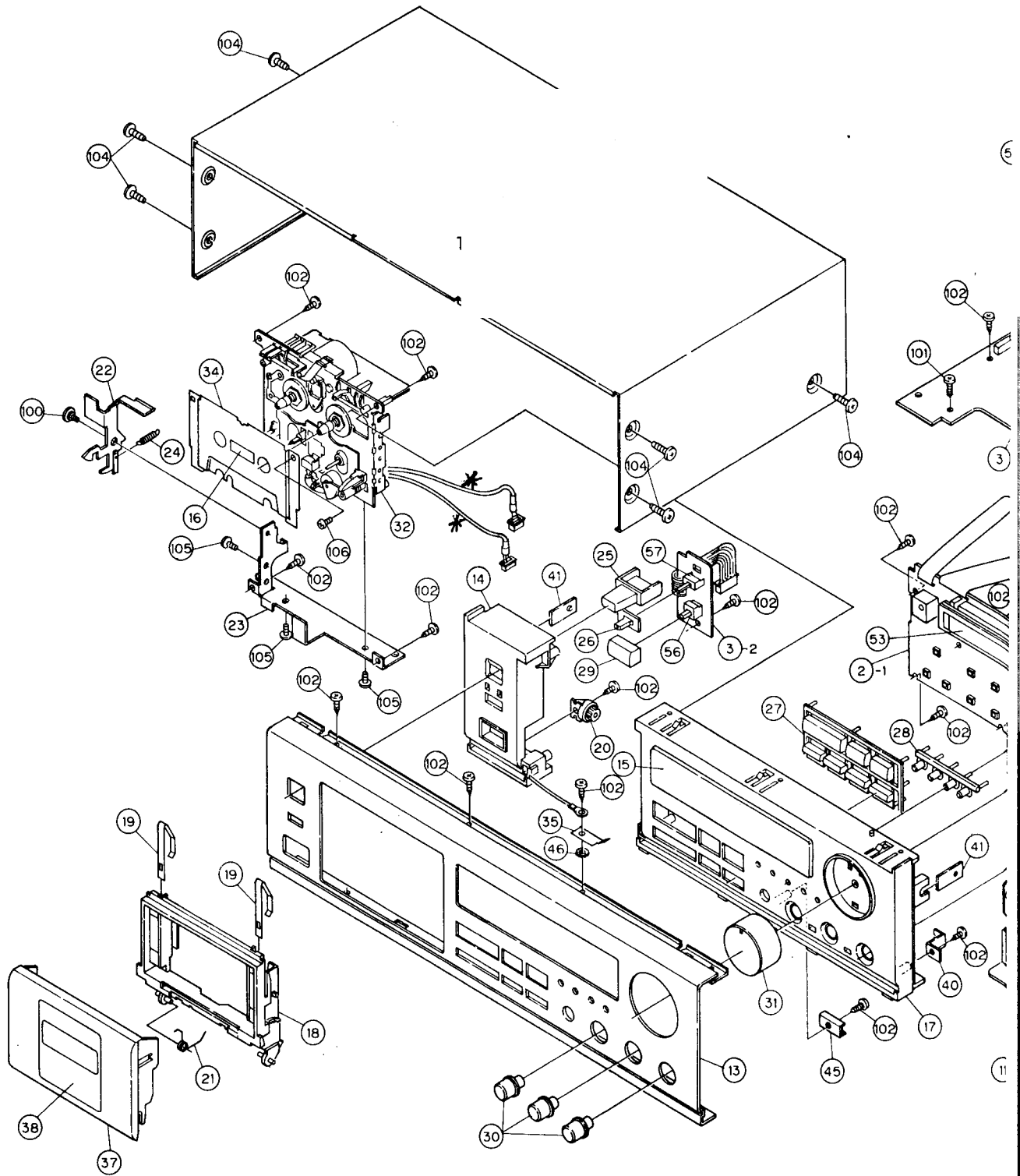
*** Gold: Europe model only**

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|--------------|--------------|-------------------------|--|------|
| 39 | 204 8498 009 | 4P RCA pin jack | JK301 | 1 |
| 40 | 412 9494 001 | PCB bracket | | 1 |
| 41 | 409 9006 008 | Attach plate | | 1 |
| 42 | 409 9005 009 | Attach plate (B) | | 1 |
| 43 | 414 9187 000 | Shilde sheet | | 1 |
| 44 | 445 0048 016 | Cord holder | | 1 |
| 45 | M27 -108 | T-washer | | 1 |
| 46 | 475 3201 000 | 3 TWB | | 1 |
| 47 | 204 8264 026 | H/P jack | JK302 | 1 |
| 48 | 204 8416 007 | Mini jack | JK303 | 1 |
| 49 | 211 0570 004 | Variable resistor | VR301 | 1 |
| 50 | 211 0706 001 | Variable resistor | VR302 | 1 |
| 51 | 211 0746 003 | Variable resistor | VR303(M.N) | 1 |
| 52 | 211 0736 000 | Variable resistor | VR304 | 1 |
| 53 | 393 8023 004 | *FLD | F501 | 1 |
| 54 | 129 9025 002 | *FLD pad | | 1 |
| 55 | 233 9676 006 | Power transformer | Europe, U.K., Australia, Asia & Hongkong models | 1 |
| 55 | 233 9678 004 | Power transformer | U.S.A., Canada & Taiwan models | 1 |
| 56 | 212 1039 000 | Push switch | SW520 | 1 |
| 57 | 212 9572 006 | Slide switch | SW520 | 1 |
| SCREW | | | | |
| 100 | 477 0262 006 | Special screw | | 1 |
| 101 | 473 7002 021 | Screw 3x8 CBTS (S)-B | | 1 |
| 102 | 473 7500 044 | Screw 3x8 CBTS (P)-B | | 30 |
| 103 | 473 7502 013 | Screw 4x10 CBTS (P)-Z | | 4 |
| 104 | 473 7509 016 | Screw 4x10 CBTS (P)-B | Black | 6 |
| 104 | 473 7503 041 | Screw 4x10 CTTS (P)-Ni | Gold | 6 |
| 105 | 473 7016 033 | Screw 2.6x4 CBTS (S)-Z | | 4 |
| 106 | 473 7024 009 | Screw 2.6x12 CPTS (S)-B | | 1 |

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------------------------------|--------------|-----------------------------|---|------|
| PACKING & ACCESSORIES | | | | |
| ● | 505 8092 010 | Envelope | | 1 |
| ● | 505 0038 030 | Poly cover | | 1 |
| | 203 2360 004 | 2P pin cord | | 2 |
| | 203 5013 002 | 3P mini pulg cord | | 1 |
| ● | 202 0042 004 | Plug adapter | Asia model only | 1 |
| ● | 511 9436 007 | Operating insutruccion (B) | Europe model | 1 |
| ● | 511 9437 006 | Operating insutruccion (3) | U.S.A. & Canada models | 1 |
| ● | 511 9439 004 | Operating insutruccion (E) | U.K., Australia, Asia & Hongkong models | 1 |
| ● | 511 9438 005 | Operating insutruccion (CH) | Hongkong & Taiwan models | 1 |
| ● | 503 9297 009 | Cushion | | 2 |
| ● | 501 9274 042 | Carton case | | 1 |
| ● | 501 9274 055 | Carton case | U.K., Australia models only | 1 |
| ● | 501 9274 068 | Carton case | Asia model only | 1 |
| ● | 502 9130 008 | Pad Ass'y | U.K., Australia models only | 1 |

- 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.

EXPLODED VIEW CHASSIS AND CABINET



* P/N 203648005

5

6

7

8

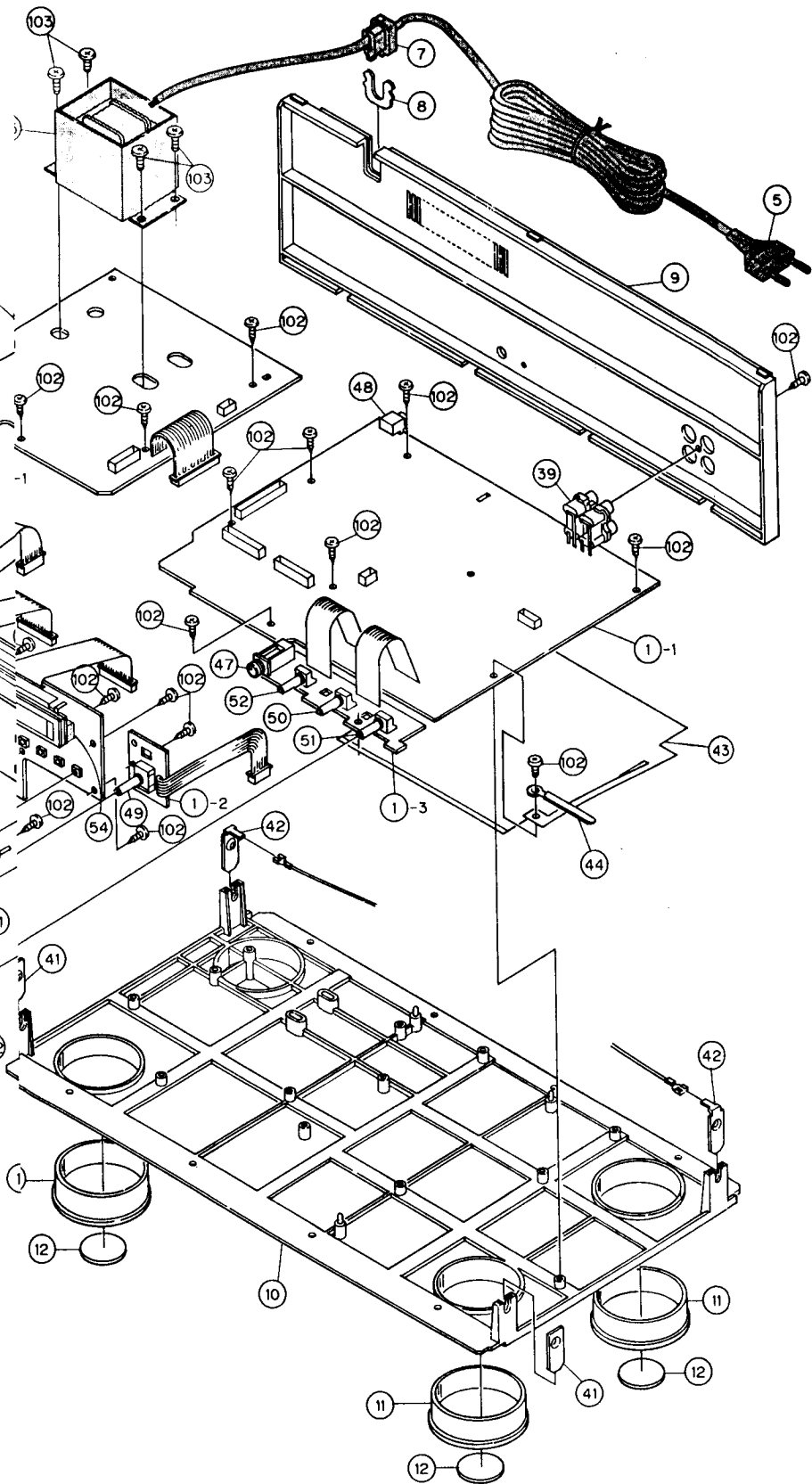
A



B

C

D

E



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

1

2

3

4

CASSETTE MECHANISM UNIT

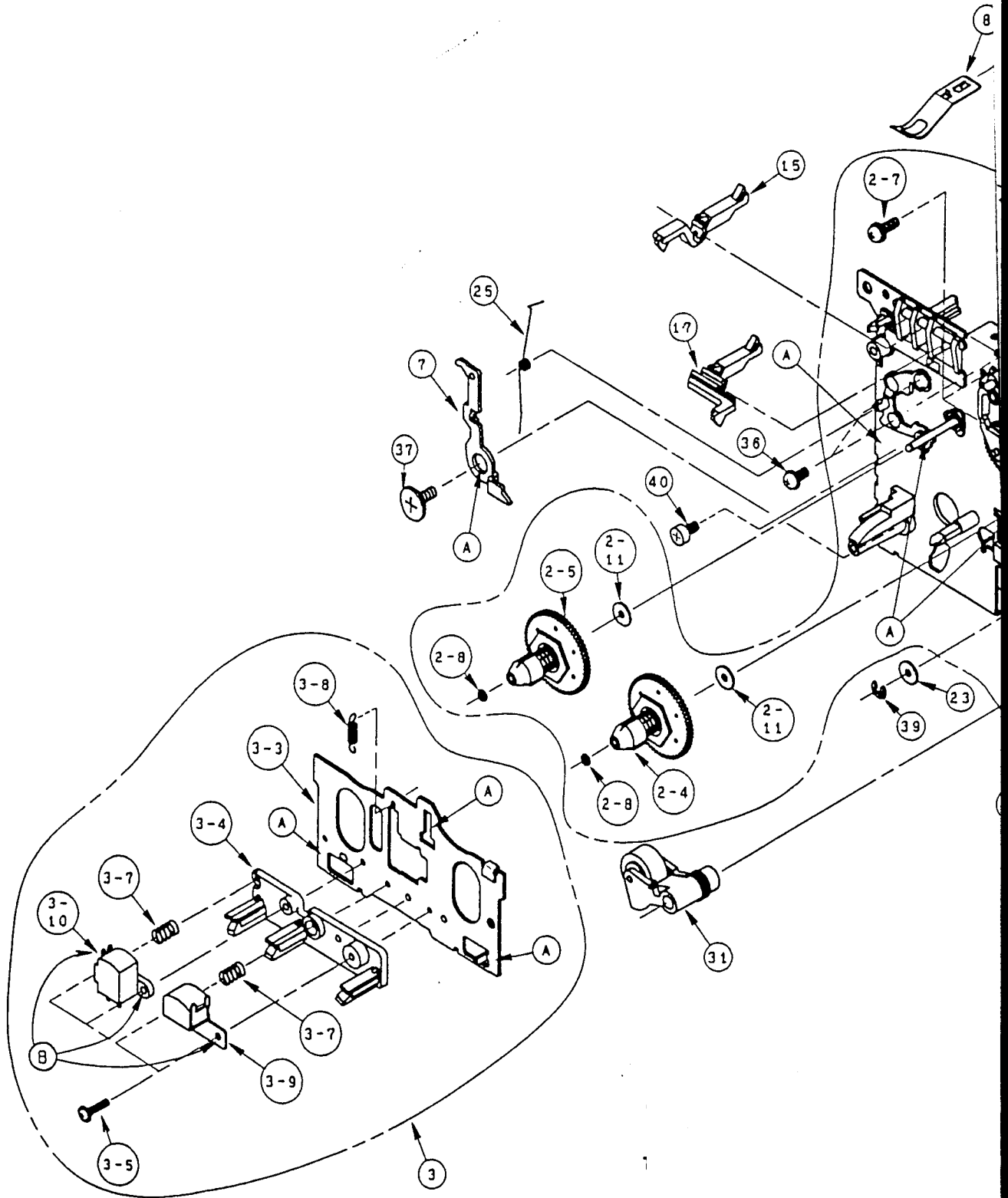
A

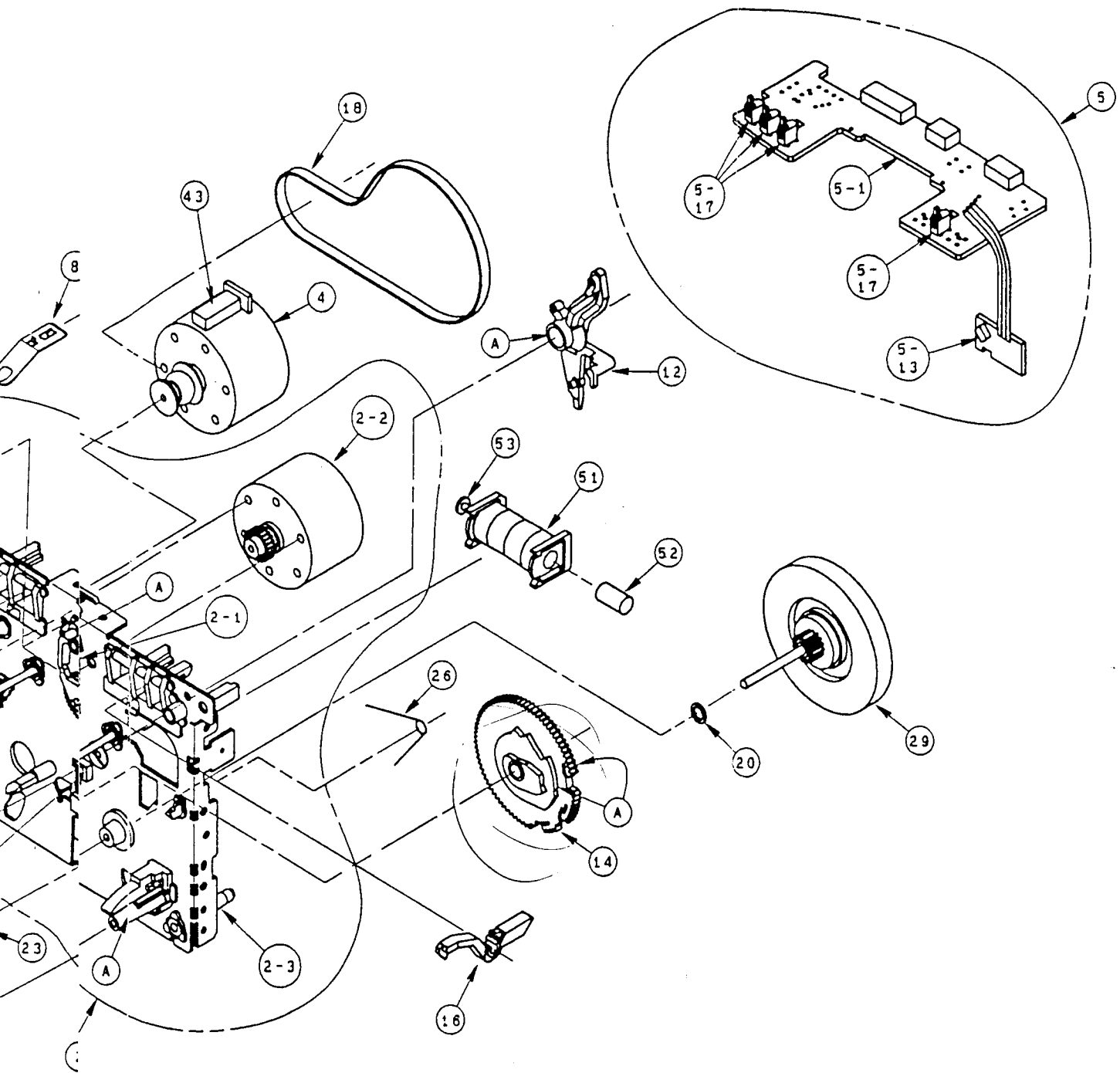
B

C

D

E



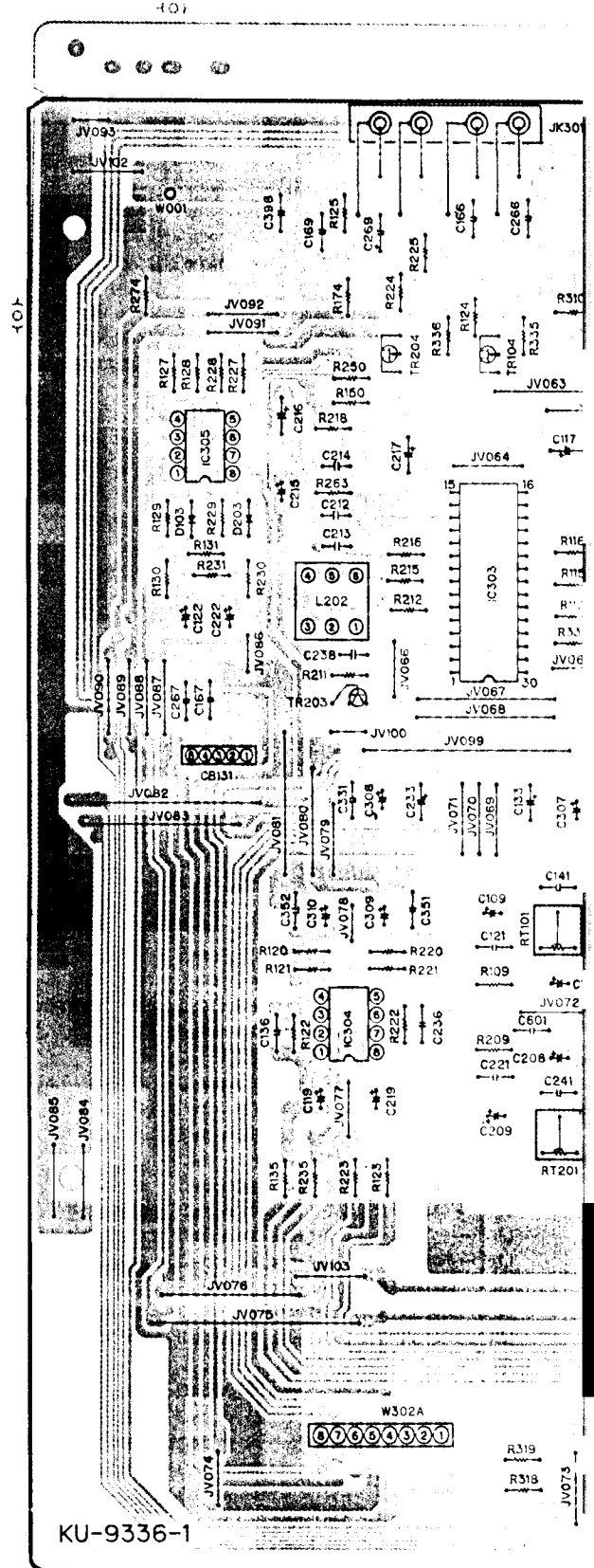


Ⓐ: MOLYKOTE X5 DOW CORNING CO.,LTD
 Ⓑ: SCREW LOCK THREE BOND CO.,LTD

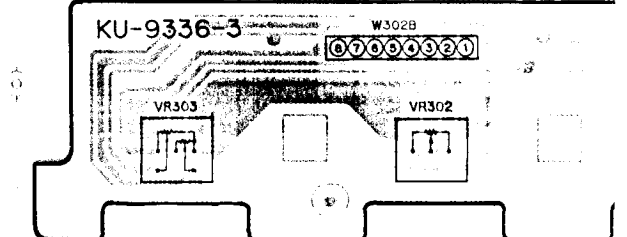
| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|-----------|-------------------|---------|------|
| 2-2 | 9DF564280 | MTR reel block | | 1 |
| 3 | 9DF513768 | Plate HD block | | 1 |
| 3-9 | 9DFU20F11 | SS251 | | 1 |
| 3-10 | 9DFU19211 | Erase head | | 1 |
| 4 | 9DF525269 | MTR main block | | 1 |
| 5 | 9DF567585 | PCB control block | | 1 |
| 18 | 9DFF17W31 | Belt main | | 1 |
| 31 | 9DFR20L22 | Pinch roller (R) | | 1 |

PRINTED WIRING BOARD PATTERNS

KU-9336 AUDIO P.W.B. UNIT ASS'Y



KU-9336-1



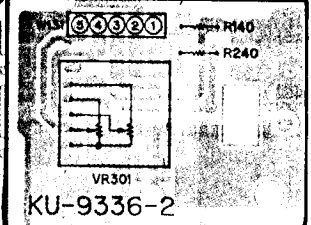
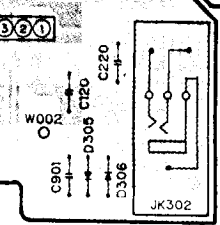
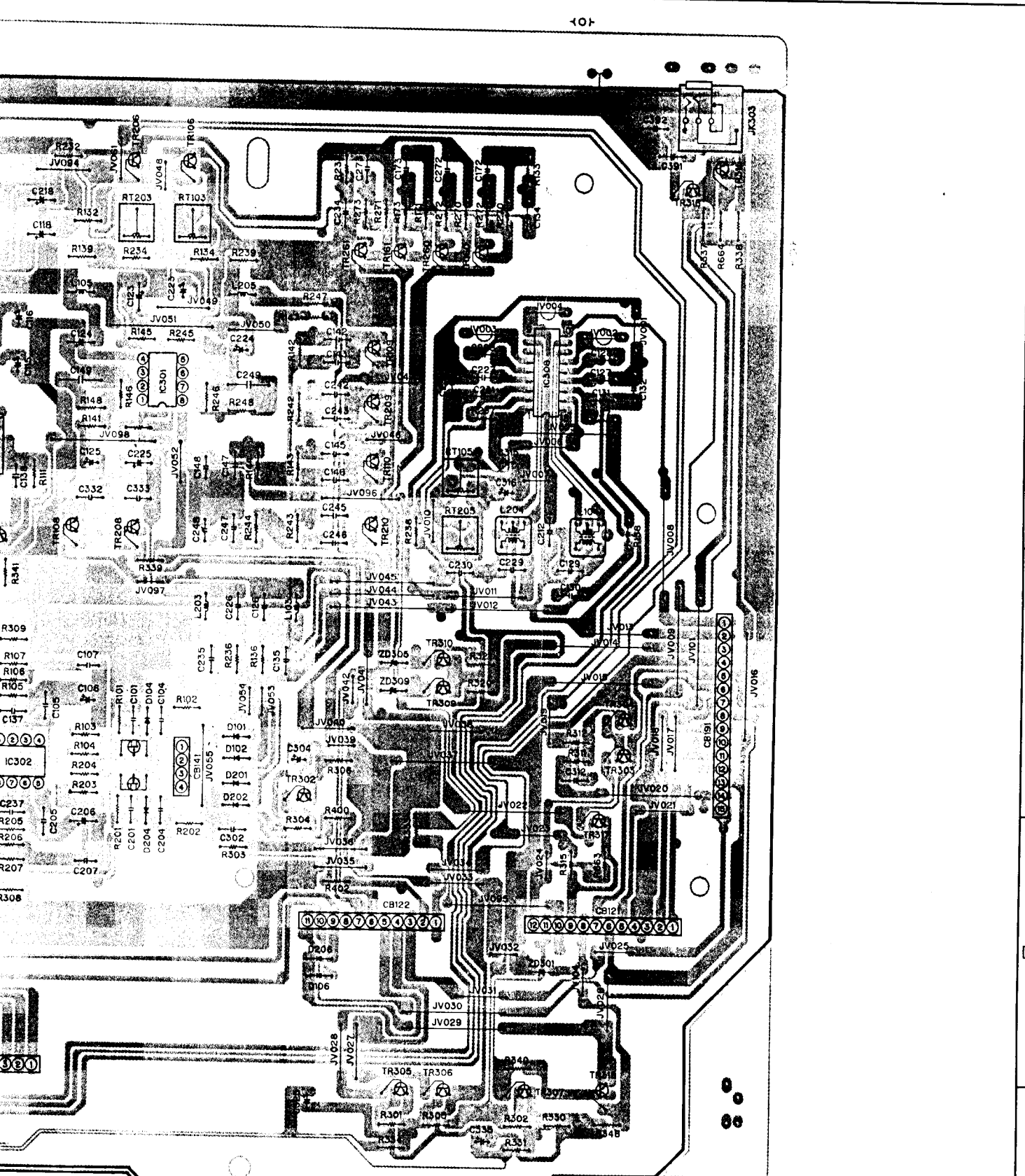
KU-9336-3

5

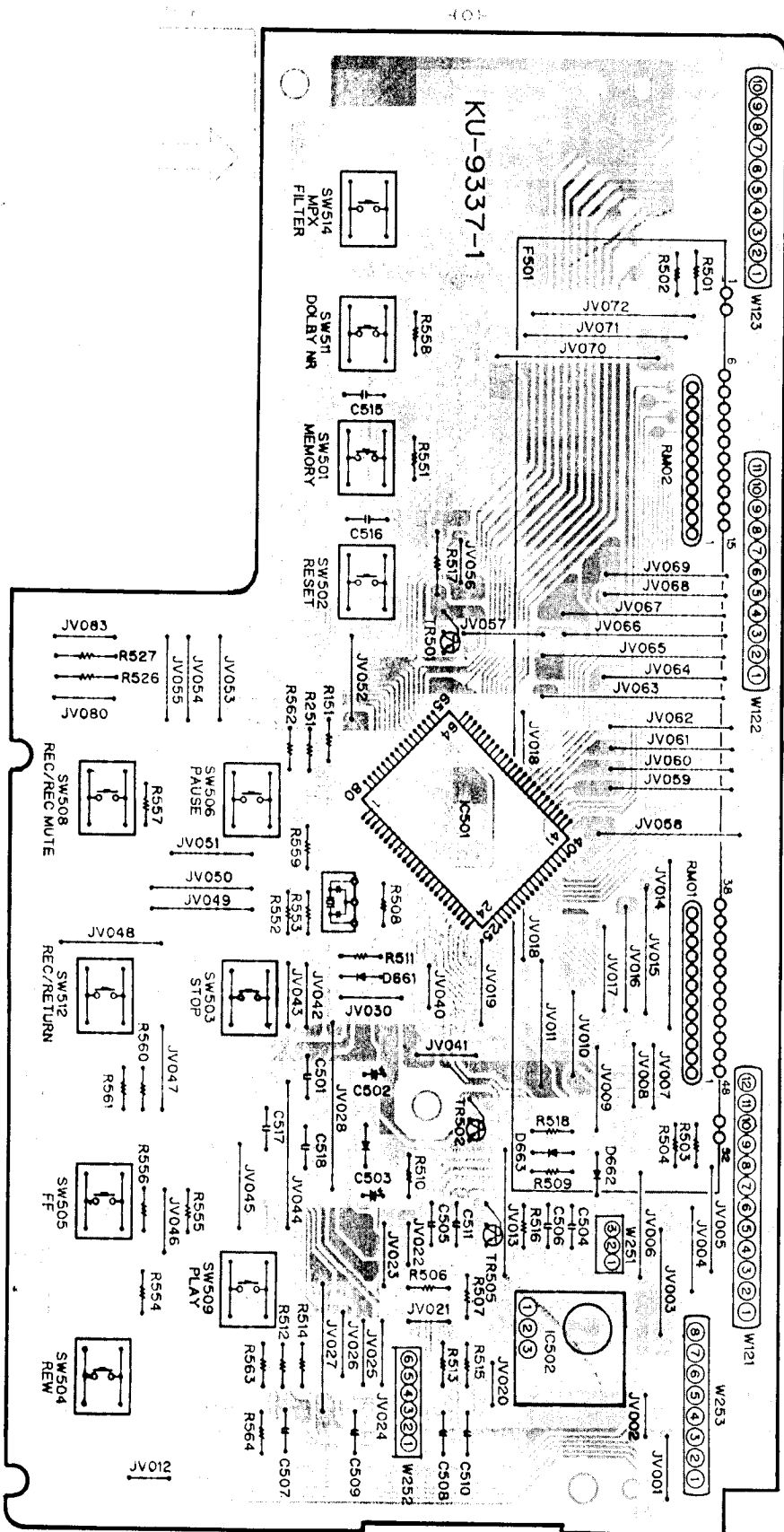
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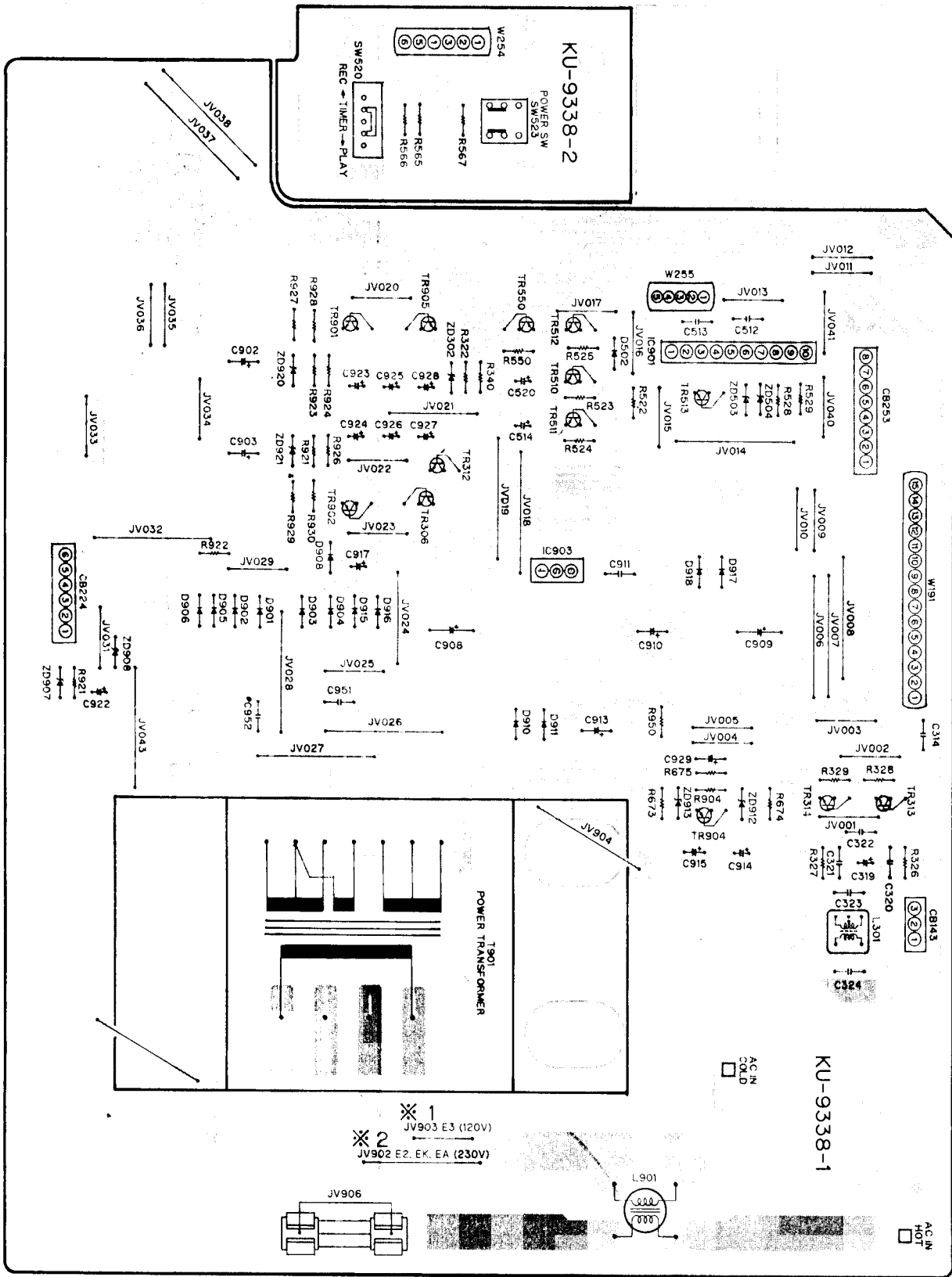
8



KU-9337 DISPLAY P.W.B. UNIT ASS'Y



KU-9338 POWER P.W.B. UNIT ASS'Y



NOTE F

- Part indic case sup
 - When ore
 - Ordering
 - Part indic
 - Not inclu
- WARNING**
Parts mark
Use ONLY

● Resistors

Ex.: RN Type

| | |
|----|-------------|
| RD | Carbon |
| RC | Composit |
| RS | Metal oxide |
| RW | Winding |
| RN | Metal film |
| RK | Metal mixt |

* Resistance

| | | |
|------------------|---|---|
| 1 | 8 | 2 |
| ● Units: ohm | | |
| 1 | R | 2 |
| ● Units: ohm | | |
| * Capacity (ele) | | |
| 2 | 2 | 2 |
| ● Units: μF | | |
| 2 | R | 2 |
| ● Units: μF | | |

*1 U.S.A. and Canada models
*2 Europe, U.K. and Australia models

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 $\pm 5\%$, 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 Resist-ance Allowable error Others

| | | | | | | | |
|----|------------------|----|------|---|------------|----|----------------------|
| RD | Carbon | 2B | 1/8W | F | $\pm 1\%$ | P | Pulse-resistant type |
| RC | Composition | 2E | 1/4W | G | $\pm 2\%$ | NL | Low noise type |
| RS | Metal oxide film | 2H | 1/2W | J | $\pm 5\%$ | NB | Non-burning type |
| RW | Winding | 3A | 1W | K | $\pm 10\%$ | FR | Fuse-resistor |
| RN | Metal film | 3D | 2W | M | $\pm 20\%$ | F | Lead wire forming |
| RK | Metal mixture | 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

* Capacity (electrolyte only)

2 2 2 ——— 2200 μ F
 ↑ ↑ ↑
 Indicates number of zeros after effective number.
 2-digit effective number.

● Units: μ F.

2 R 2 ——— 2.2 μ F
 ↑ ↑ ↑
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.

● Units: μ F.

● Capacitors

Ex.: CE 04W 1H 2R2 M BP
 Type Shape and performance Dielectric strength Capacity Allowable error Others

| | | | | | | | |
|----|-----------------------------|----|------|---|------------|----|-----------------------------|
| CE | Aluminum foil electrolytic | 0J | 6.3V | F | +1% | HS | High stability type |
| CA | Aluminum solid electrolytic | 1A | 10V | G | +2% | BP | Non-polar type |
| CS | Tantalum electrolytic | 1C | 16V | J | +5% | HR | Ripple-resistant type |
| CQ | Film | 1E | 25V | K | $\pm 10\%$ | DL | For charge and discharge |
| CK | Ceramic | 1V | 35V | M | $\pm 20\%$ | 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 | Metalized | 2C | 160V | | -0% | F | Lead wire forming |
| CH | Metalized | 2D | 200V | C | +0.25pF | | |
| | | 2E | 250V | D | +0.5pF | | |
| | | 2H | 500V | | - | | |
| | | 2J | 630V | | - | | |

* Capacity (except electrolyte)

2 2 2 ——— 2200 μ F = 0.0022 μ F
 ↑ ↑ ↑
 (More than 2) — Indicates number of zeros after effective number.
 2-digit effective number.

● Units: μ F.

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.

PRINTED WIRING BOARD PARTS LIST

KU-9336 AUDIO P.W.B. UNIT ASS'Y

| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------------|--------------|-----------------------|-------------|
| SEMICONDUCTORS GROUP | | | |
| IC301 | 263 0565 007 | IC BA15218 | |
| IC302 | 262 0864 006 | IC μ PC4570C | |
| IC303 | 263 0720 004 | IC HA12170NT | |
| IC304, 305 | 263 0565 007 | IC BA15218 | |
| IC308 | 263 0354 001 | IC μ PC1297CA | |
| TR101 | 275 0042 002 | Transistor 2SK373 (Y) | |
| TR102 | 269 0080 904 | Transistor DTA114TS | |
| TR103 | 269 0015 908 | Transistor DTC124XS | |
| TR104 | 275 0055 002 | Transistor 2SK184GR | |
| TR106 | 273 0303 004 | Transistor 2SC1740S | |
| TR108 | 269 0072 909 | Transistor 2SC323TS | |
| TR109, 110 | 269 0074 907 | Transistor DTC114TS | |
| TR161 | 269 0074 907 | Transistor DTC114TS | |
| TR201 | 275 0042 002 | Transistor 2SK373 (Y) | |
| TR202 | 269 0080 904 | Transistor DTA114TS | |
| TR203 | 269 0015 908 | Transistor DTC124XS | |
| TR204 | 275 0055 002 | Transistor 2SK184GR | |
| TR206 | 273 0303 004 | Transistor 2SC1740S | |
| TR208 | 269 0072 909 | Transistor 2SC323TS | |
| TR209, 210 | 269 0074 907 | Transistor DTC114TS | |
| TR261 | 269 0074 907 | Transistor DTC114TS | |
| TR302 | 269 0046 906 | Transistor DTA114ES | |
| TR303 | 269 0015 908 | Transistor DTC124XS | |
| TR304 | 269 0016 907 | Transistor DTA144WS | |
| TR305 ~307 | 269 0040 902 | Transistor DTC144ES | |
| TR309, 310 | 269 0015 908 | Transistor DTC124XS | |
| TR315, 316 | 269 0020 906 | Transistor DTC114ES | |
| TR317 | 269 0080 904 | Transistor DTA114TS | |
| TR318 | 269 0046 906 | Transistor DTA114ES | |
| D101 ~104 | 276 0432 000 | Diode 1SS270A | |
| D106 | 276 0432 000 | Diode 1SS270A | |
| D201 ~204 | 276 0432 000 | Diode 1SS270A | |
| D206 | 276 0432 000 | Diode 1SS270A | |
| D305, 306 | 276 0432 000 | Diode 1SS270A | |
| ZD301 | 276 0461 000 | Zener diode HZS6A-1 | |
| ZD305 | 276 0467 004 | Zener diode HZS9A-1 | |
| ZD309 | 276 0467 004 | Zener diode HZS9A-1 | |
| RESISTOR GROUP | | | |
| R101 | 241 2338 083 | Carbon 150k ohm 1/6W | RD14B--154J |
| R102 | | Carbon 2.2M ohm 1/6W | RD14B--225J |
| R103 | 241 2331 064 | Carbon 150 ohm 1/6W | RD14B--151J |
| R104 | 241 2331 022 | Carbon 100 ohm 1/6W | RD14B--101J |
| R105 | 241 2339 037 | Carbon 240k ohm 1/6W | RD14B--244J |
| R106 | 241 2336 069 | Carbon 18k ohm 1/6W | RD14B--183J |
| R107 | 241 2663 098 | Carbon 24k ohm 1/6W | RD14B--243J |
| R109 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R111 | 241 2340 084 | Carbon 1M ohm 1/6W | RD14B--105J |
| R112 | 241 2334 087 | Carbon 3.3k ohm 1/6W | RD14B--332J |
| R115 | 241 2335 060 | Carbon 6.8k ohm 1/6W | RD14B--682J |
| R116 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R118 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R120 | 241 2337 088 | Carbon 47k ohm 1/6W | RD14B--473J |
| R121 | 241 2337 026 | Carbon 33k ohm 1/6W | RD14B--333J |

| Ref. No. | Part No. | Part Name | Remarks |
|--------------|--------------|----------------------|-------------|
| R122 | 241 2337 026 | Carbon 33k ohm 1/6W | RD14B--333J |
| R123 | 241 2331 022 | Carbon 100 ohm 1/6W | RD14B--101J |
| R124 | 241 2332 050 | Carbon 360k ohm 1/6W | RD14B--361J |
| R125 | 241 2331 022 | Carbon 100 ohm 1/6W | RD14B--101J |
| R127 | 241 2338 009 | Carbon 68k ohm 1/6W | RD14B--683J |
| R128, 129 | 241 2337 000 | Carbon 27k ohm 1/6W | RD14B--273J |
| R130 | 241 2331 022 | Carbon 100 ohm 1/6W | RD14B--101J |
| R131 | 241 2340 084 | Carbon 1M ohm 1/6W | RD14B--105J |
| R132 | 241 2335 043 | Carbon 15k ohm 1/6W | RD14B--153J |
| R133 | 241 2337 055 | Carbon 43k ohm 1/6W | RD14B--433J |
| R134 | 241 2334 045 | Carbon 2.2k ohm 1/6W | RD14B--222J |
| R136 | 241 2335 057 | Carbon 6.2k ohm 1/6W | RD14B--622J |
| R137 | 241 2335 043 | Carbon 15k ohm 1/6W | RD14B--153J |
| R138 | 241 2338 083 | Carbon 150k ohm 1/6W | RD14B--154J |
| R139 | 241 2334 090 | Carbon 3.6k ohm 1/6W | RD14B--362J |
| R140 | 241 2337 000 | Carbon 27k ohm 1/6W | RD14B--273J |
| R141 | 241 2331 093 | Carbon 200 ohm 1/6W | RD14B--201J |
| R145 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R146 | 241 2339 008 | Carbon 180k ohm 1/6W | RD14B--184J |
| R147 | 241 2332 005 | Carbon 220 ohm 1/6W | RD14B--221J |
| R148 | 241 2337 013 | Carbon 30k ohm 1/6W | RD14B--303J |
| R150 | 241 2663 098 | Carbon 24k ohm 1/6W | RD14B--243J |
| R163 | 241 2333 004 | Carbon 560 ohm 1/6W | RD14B--561J |
| R171 | 241 2337 000 | Carbon 27k ohm 1/6W | RD14B--273J |
| R173 | 241 2335 086 | Carbon 8.2k ohm 1/6W | RD14B--822J |
| R174 | 241 2335 015 | Carbon 4.3k ohm 1/6W | RD14B--432J |
| R201 | 241 2338 083 | Carbon 150k ohm 1/6W | RD14B--154J |
| R202 | | Carbon 2.2M ohm 1/6W | RD14B--225J |
| R203 | 241 2331 064 | Carbon 150 ohm 1/6W | RD14B--151J |
| R204 | 241 2331 022 | Carbon 100 ohm 1/6W | RD14B--101J |
| R205 | 241 2339 037 | Carbon 240k ohm 1/6W | RD14B--244J |
| R206 | 241 2336 069 | Carbon 18k ohm 1/6W | RD14B--183J |
| R207 | 241 2663 098 | Carbon 24k ohm 1/6W | RD14B--243J |
| R209 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R211 | 241 2340 084 | Carbon 1M ohm 1/6W | RD14B--105J |
| R212 | 241 2334 087 | Carbon 3.3k ohm 1/6W | RD14B--332J |
| R215 | 241 2335 060 | Carbon 6.8k ohm 1/6W | RD14B--682J |
| R216 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R218 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R220 | 241 2337 088 | Carbon 47k ohm 1/6W | RD14B--473J |
| R221 | 241 2337 026 | Carbon 33k ohm 1/6W | RD14B--333J |
| R222 | 241 2337 026 | Carbon 33k ohm 1/6W | RD14B--333J |
| R223 | 241 2331 022 | Carbon 100 ohm 1/6W | RD14B--101J |
| R224 | 241 2332 050 | Carbon 360 ohm 1/6W | RD14B--361J |
| R225 | 241 2331 022 | Carbon 100 ohm 1/6W | RD14B--101J |
| R227 | 241 2338 009 | Carbon 68k ohm 1/6W | RD14B--683J |
| R228, 229 | 241 2337 000 | Carbon 27k ohm 1/6W | RD14B--273J |
| R230 | 241 2331 022 | Carbon 100 ohm 1/6W | RD14B--101J |
| R231 | 241 2340 084 | Carbon 1M ohm 1/6W | RD14B--105J |
| R232 | 241 2335 043 | Carbon 15k ohm 1/6W | RD14B--153J |
| R233 | 241 2337 055 | Carbon 43k ohm 1/6W | RD14B--433J |
| R234 | 241 2334 045 | Carbon 2.2k ohm 1/6W | RD14B--222J |
| R236 | 241 2335 057 | Carbon 6.2k ohm 1/6W | RD14B--622J |
| R237 | 241 2335 043 | Carbon 15k ohm 1/6W | RD14B--153J |
| R238 | 241 2338 083 | Carbon 150k ohm 1/6W | RD14B--154J |
| R239 | 241 2334 090 | Carbon 3.6k ohm 1/6W | RD14B--362J |
| R240 | 241 2337 000 | Carbon 27k ohm 1/6W | RD14B--273J |
| R241 | 241 2331 093 | Carbon 200 ohm 1/6W | RD14B--201J |
| R245 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R246 | 241 2339 008 | Carbon 180k ohm 1/6W | RD14B--184J |
| R247 | 241 2332 005 | Carbon 220 ohm 1/6W | RD14B--221J |
| R248 | 241 2337 013 | Carbon 30k ohm 1/6W | RD14B--303J |

| Ref. No. | Part No. | Part Name | Remarks |
|-----------|--------------|-----------------------------|--------------|
| R250 | 241 2663 098 | Carbon 24k ohm 1/6W | RD14B--243J |
| R263 | 241 2333 004 | Carbon 560 ohm 1/6W | RD14B--561J |
| R271 | 241 2337 000 | Carbon 27k ohm 1/6W | RD14B--273J |
| R273 | 241 2335 086 | Carbon 8.2k ohm 1/6W | RD14B--822J |
| R274 | 241 2335 015 | Carbon 4.3k ohm 1/6W | RD14B--432J |
| R301, 302 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R303 | 241 2338 041 | Carbon 100k ohm 1/6W | RD14B--104J |
| R304, 305 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R306 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| R308, 309 | 241 2332 047 | Carbon 330 ohm 1/6W | RD14B--331J |
| R310 | | Carbon 2.2M ohm 1/6W | RD14B--225J |
| R311 | 241 2337 088 | Carbon 47k ohm 1/6W | RD14B--473J |
| R312 | | Carbon 2.2M ohm 1/6W | RD14B--225J |
| R315 | 241 2335 043 | Carbon 15k ohm 1/6W | RD14B--153J |
| R318 | 241 2333 075 | Carbon 1.1k ohm 1/6W | RD14B--112J |
| R319 | 241 2334 045 | Carbon 2.2k ohm 1/6W | RD14B--222J |
| R320 | 241 2335 044 | Carbon 5.5k ohm 1/6W | RD14B--562J |
| R321 | 241 2333 001 | Carbon 1.3k ohm 1/6W | RD14B--132J |
| R330 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R331 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R332 | 241 2336 069 | Carbon 18k ohm 1/6W | RD14B--183J |
| R333 | 241 2334 087 | Carbon 3.3k ohm 1/6W | RD14B--332J |
| R334 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R335, 336 | | Carbon 2.2M ohm 1/6W | RD14B--225J |
| R337 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R338 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R339 | 241 2334 045 | Carbon 2.2k ohm 1/6W | RD14B--222J |
| R341 | 241 2338 041 | Carbon 100k ohm 1/6W | RD14B--104J |
| R348 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R349 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R400 | 241 2332 089 | Carbon 470 ohm 1/6W | RD14B--471J |
| R601 | 241 2335 028 | Carbon 4.7k ohm 1/6W | RD14B--472J |
| R602 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| R663 | 241 2335 028 | Carbon 4.7k ohm 1/6W | RD14B--472J |
| R664 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| RT101 | 211 6047 065 | Semi fixed resistor 47k ohm | V06PB473 |
| RT103 | 211 6047 049 | Semi fixed resistor 22k ohm | V06PB223 |
| RT105 | 211 6047 065 | Semi fixed resistor 47k ohm | V06PB473 |
| RT201 | 211 6047 065 | Semi fixed resistor 47k ohm | V06PB473 |
| RT203 | 211 6047 049 | Semi fixed resistor 22k ohm | V06PB223 |
| RT205 | 211 6047 065 | Semi fixed resistor 47k ohm | V06PB473 |
| VR301 | 211 0570 004 | Variable resistor 100k ohm | V14V25FA104R |
| VR302 | 211 0706 001 | Variable resistor 1k ohm | V09V25FB102K |
| VR303 | 211 0746 003 | Variable resistor 100k ohm | V09V25FW104 |
| (M.N) | | | |
| VR304 | 211 0736 000 | Variable resistor 10k ohm | V09V25FA103 |

CAPACITORS GROUP

| | | | |
|-----------|--------------|------------------------|--------------|
| C101 | 253 3645 008 | Ceramic 560pF/50V | CC45SL1H561J |
| C104 | 253 9003 000 | Ceramic 1000pF/25V | CK45-1E102M |
| C105 | 253 3627 000 | Ceramic 100pF/50V | CC45SL1H101J |
| C106 | 254 4250 042 | Electrolytic 330µ/6.3V | CE04W0J331M |
| C107 | 255 1256 000 | Film 7500pF/50V | CQ92M1H752J |
| C108 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C109 | 254 4243 017 | Electrolytic 1µ/50V | CE04W1H010M |
| C112 | 255 1134 009 | Film 2200pF/50V | CQ92M1H222J |
| -114 | | | |
| C115, 116 | 254 4260 003 | Electrolytic 0.1µ/50V | CE04W1H0R1M |
| C117 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C118 | 254 4132 005 | Electrolytic 10µ/16V | CE04W1C100M |
| C119 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C120 | 253 9030 060 | Ceramic 0.01µF/25V | CK45-1E103K |
| C122 | 254 4145 005 | Electrolytic 0.47µ/50V | CE04W1HR47M |

| Ref. No. | Part No. | Part Name | Remarks |
|-----------|--------------|------------------------|--------------|
| C123 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C124 | 254 4135 002 | Electrolytic 47µ/16V | CE04W1C470M |
| C125 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C126 | 253 3631 009 | Ceramic 150pF/50V | CC45SL1H151J |
| C127 | 253 0300 086 | Ceramic 0.022µF/25V | CK45-1E223K |
| C128 | 253 9030 099 | Ceramic 0.033µF/25V | CK45-1E333K |
| △C129 | 253 3641 002 | Ceramic 390pF/500V | CC45SL2H391J |
| C130 | 253 3627 000 | Ceramic 100pF/50V | CC45SL1H101J |
| C131 | 253 9030 060 | Ceramic 0.01µF/25V | CK45-1E103K |
| C132 | 253 9031 043 | Ceramic 1200pF/25V | CK45-1E122K |
| C133 | 254 4243 017 | Electrolytic 1µ/50V | CE04W1H010M |
| C134 | 253 9030 002 | Ceramic 1000pF/25V | CK45-1E102K |
| C135 | 253 3645 008 | Ceramic 560pF/50V | CC45SL1H561J |
| C136 | 253 3627 000 | Ceramic 100pF/50V | CC45SL1H101J |
| C138 | 255 1135 040 | Film 2700pF/50V | CQ92M1H272J |
| C141 | 253 3633 007 | Ceramic 180pF/50V | CC45SL1H181J |
| C143 | 253 9030 028 | Ceramic 2200pF/25V | CK45-1E222K |
| C146 | 253 9031 072 | Ceramic 3900pF/25V | CK45-1E392K |
| C148 | 255 1256 000 | Film 7500pF/50V | CQ92M1H752J |
| C149 | 255 1122 037 | Film 0.082µF/50V | CQ93M1H823J |
| C166 | 253 3641 002 | Ceramic 390pF/50V | CC45SL1H391J |
| C169 | 253 3641 002 | Ceramic 390pF/50V | CC45SL1H391J |
| C173 | 253 9030 057 | Ceramic 6800pF/25V | CK45-1E682K |
| C201 | 253 3645 008 | Ceramic 560pF/50V | CC45SL1H561J |
| C204 | 253 9003 000 | Ceramic 1000pF/25V | CK45-1E102M |
| C205 | 253 3627 000 | Ceramic 100pF/50V | CC45SL1H101J |
| C206 | 254 4250 042 | Electrolytic 330µ/6.3V | CE04W0J331M |
| C207 | 255 1256 000 | Film 7500pF/50V | CQ92M1H752J |
| C208 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C209 | 254 4243 017 | Electrolytic 1µ/50V | CE04W1H010M |
| C212 | 255 1134 009 | Film 2200pF/50V | CQ92M1H222J |
| -214 | | | |
| C215, 216 | 254 4260 003 | Electrolytic 0.1µ/50V | CE04W1H0R1M |
| C217 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C218 | 254 4132 005 | Electrolytic 10µ/16V | CE04W1C100M |
| C219 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C220 | 253 9030 060 | Ceramic 0.01µF/25V | CK45-1E103K |
| C222 | 254 4145 005 | Electrolytic 0.47µ/50V | CE04W1HR47M |
| C223 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C224 | 254 4135 002 | Electrolytic 47µ/16V | CE04W1C470M |
| C225 | 254 4140 000 | Electrolytic 4.7µ/35V | CE04W1V4R7M |
| C226 | 253 3631 009 | Ceramic 150pF/50V | CC45SL1H151J |
| C227 | 253 0300 086 | Ceramic 0.022µF/25V | CK45-1E223K |
| C228 | 253 9030 099 | Ceramic 0.033µF/25V | CK45-1E333K |
| △C229 | 253 3641 002 | Ceramic 390pF/500V | CC45SL2H391J |
| C230 | 253 3627 000 | Ceramic 100pF/50V | CC45SL1H101J |
| C231 | 253 9030 060 | Ceramic 0.01µF/25V | CK45-1E103K |
| C232 | 253 9031 043 | Ceramic 1200pF/25V | CK45-1E122K |
| C233 | 254 4243 017 | Electrolytic 1µ/50V | CE04W1H010M |
| C234 | 253 9030 002 | Ceramic 1000pF/25V | CK45-1E102K |
| C235 | 253 3645 008 | Ceramic 560pF/50V | CC45SL1H561J |
| C236 | 253 3627 000 | Ceramic 100pF/50V | CC45SL1H101J |
| C238 | 255 1135 040 | Film 2700pF/50V | CQ92M1H272J |
| C241 | 253 3633 007 | Ceramic 180pF/50V | CC45SL1H181J |
| C243 | 253 9030 028 | Ceramic 2200pF/25V | CK45-1E222K |
| C246 | 253 9031 072 | Ceramic 3900pF/25V | CK45-1E392K |
| C248 | 255 1256 000 | Film 7500pF/50V | CQ92M1H752J |
| C249 | 255 1122 037 | Film 0.082pF/50V | CQ93M1H823J |
| C266 | 253 3641 002 | Ceramic 390pF/50V | CC45SL1H391J |
| C269 | 253 3641 002 | Ceramic 390pF/50V | CC45SL1H391J |
| C273 | 253 9030 057 | Ceramic 6800pF/25V | CK45-1E682K |
| C302 | 253 9003 000 | Ceramic 1000pF/25V | CK45-1E102M |
| C304 | 254 4136 001 | Electrolytic 100µ/16V | CE04W1C101M |
| C305, 306 | 254 4135 002 | Electrolytic 47µ/16V | CE04W1C470M |
| C307, 308 | 254 4132 005 | Electrolytic 10µ/16V | CE04W1C100M |

KU-9337 DISPLAY P.W.B. UNIT ASS'Y

| Ref. No. | Part No. | Part Name | Remarks |
|-----------|--------------|----------------------|-------------|
| C309, 310 | 254 4135 002 | Electrolytic 47µ/16V | CE04W1C470M |
| C312 | 253 9030 060 | Ceramic 0.01µF/25V | CK45-1E103K |
| C313 | 253 9031 001 | Ceramic 0.0347µF/25V | CK45-1E473K |
| C315, 316 | 254 4132 005 | Electrolytic 10µ/16V | CE04W1C100M |
| C325 | 254 4239 021 | Electrolytic 22µ/25V | CE04W1E220M |
| C328 | 253 9030 060 | Ceramic 0.01µF/25V | CK45-1E103K |
| -331 | | | |
| C334 | 254 4132 005 | Electrolytic 10µ/16V | CE04W1H100M |
| C390 | 253 9036 006 | Ceramic 0.1µF/25V | CK45-1E104Z |
| -392 | | | |
| C601 | 253 9036 006 | Ceramic 0.1µF/25V | CK45-1E104Z |
| C901 | 253 9036 006 | Ceramic 0.1µF/25V | CK45-1E104Z |

OTHER PARTS

| | | | |
|-------------|--------------|--------------------|--------------|
| L102 | 232 0109 003 | MPX filter | 253AGGS-1157 |
| L103 | 235 0020 945 | Inductor 15mH | 181LY153J |
| L104 | 239 0010 009 | HX ptep up coil | |
| L105 | 235 0020 916 | Inductor 8.2mH | 181LY822J |
| L202 | 232 0109 003 | MPX filter | 253AGGS-1157 |
| L203 | 235 0020 945 | Inductor 15mH | 181LY153J |
| L204 | 239 0010 009 | HX ptep up coil | |
| L205 | 235 0020 916 | Inductor 8.2mH | 181LY822J |
| JK301 | 204 8498 009 | 4P RCA pin jack | |
| JK302 | 204 8264 026 | H/P jack | |
| JK303 | 204 8416 007 | Mini jack | |
| CB121 | 205 0981 067 | 12P connector base | |
| CB122 | 205 0981 054 | 11P connector base | |
| CB131 | 205 0981 025 | 5P connector base | |
| CB141 | 205 0981 012 | 4P connector base | |
| CB191 | 205 0981 067 | 15P connector base | |
| W131 | 203 8458 004 | 5P connector cord | |
| W301A-W301B | 002 0053 008 | 8C ribbon wire | |
| W302A-W302B | 002 0053 008 | 8C ribbon wire | |
| W001 | 203 0639 012 | 1P wire | |
| W002 | 203 0638 013 | 1P contact Ass'y | |

| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------------|--------------|----------------------|---------------|
| SEMICONDUCTORS GROUP | | | |
| IC501 | 262 2240 000 | IC HD6433724D49F | µcon |
| IC502 | 499 0150 008 | IC SBX1610-52 | Remote sensor |
| TR501 | 269 0046 906 | Transistor DTA114ES | |
| TR502 | 269 0040 902 | Transistor DTC144ES | |
| TR505 | 269 0099 908 | Transistor DTC143TS | |
| D526 | 276 0432 000 | Diode 1SS270A/1N4125 | |
| D661 | 276 0432 000 | Diode 1SS270A/1N4125 | |
| D663 | 276 0432 000 | Diode 1SS270A/1N4125 | |

RESISTOR GROUP

| | | | |
|-----------|--------------|----------------------|-------------|
| R151 | 241 2334 045 | Carbon 2.2k ohm 1/6W | RD14B--222J |
| R251 | 241 2334 045 | Carbon 2.2k ohm 1/6W | RD14B--222J |
| R501 | | Carbon 4.3 ohm 1/6W | RD14B--4R3J |
| R503 | | Carbon 4.3 ohm 1/6W | RD14B--4R3J |
| R506 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| R507 | 241 2331 093 | Carbon 200 ohm 1/6W | RD14B--201J |
| R508, 509 | 241 2340 084 | Carbon 1M ohm 1/6W | RD14B--105J |
| R510 | 241 2336 072 | Carbon 20k ohm 1/6W | RD14B--203J |
| R511 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R512 | 241 2335 028 | Carbon 4.7k ohm 1/6W | RD14B--472J |
| -515 | | | |
| R516 | 241 2336 085 | Carbon 22k ohm 1/6W | RD14B--223J |
| R517 | 241 2335 028 | Carbon 4.7k ohm 1/6W | RD14B--472J |
| R518 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R526, 527 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| R551 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| -553 | | | |
| R554, 555 | 241 2331 064 | Carbon 150 ohm 1/6W | RD14B--151J |
| R556 | 241 2331 080 | Carbon 180 ohm 1/6W | RD14B--181J |
| R557 | 241 2332 021 | Carbon 270 ohm 1/6W | RD14B--271J |
| R558 | 241 2332 063 | Carbon 390 ohm 1/6W | RD14B--391J |
| R559 | 241 2331 064 | Carbon 150 ohm 1/6W | RD14B--151J |
| R560 | 241 2331 080 | Carbon 180 ohm 1/6W | RD14B--181J |
| R561 | 241 2332 021 | Carbon 270 ohm 1/6W | RD14B--271J |
| R562 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| R563 | 241 2335 031 | Carbon 5.1k ohm 1/6W | RD14B--512J |
| R564 | 241 2333 033 | Carbon 680 ohm 1/6W | RD14B--681J |

CAPACITORS GROUP

| | | | |
|-----------|--------------|------------------------|-------------|
| C501 | 253 9036 006 | Ceramic 0.1µ/25V | CK45-1E104Z |
| C502 | 254 4260 058 | Electrolytic 2.2µ/50V | CE04W1H2R2M |
| C503 | 254 4260 061 | Electrolytic 3.3 µ/50V | CE04W1H3R3M |
| C504, 505 | 253 9036 006 | Ceramic 0.1µ/25V | CK45-1E104Z |
| C506 | 253 9030 060 | Ceramic 0.01µ/25V | CK45-1E103K |
| C511 | 253 9030 060 | Ceramic 0.01µ/25V | CK45-1E103K |

OTHER PARTS

| | | | |
|------------|--------------|--------------------|------------|
| XT501 | 399 0107 007 | Resonator 4.19MHz | CST4.19MGW |
| F501 | 393 8023 004 | *FLD | BJ415GK |
| | 129 9025 002 | *FLD pad | 10×10×t6 |
| SW501 | 212 5608 000 | Tact switch | |
| -506, 509 | | | |
| SW508, 509 | 212 5608 000 | Tact switch | |
| SW511, 512 | 212 5608 000 | Tact switch | |
| SW514 | 212 5608 000 | Tact switch | |
| W121 | 204 6567 000 | 12P connector cord | |
| W122 | 204 6566 001 | 11P connector cord | |
| W251 | 203 5145 006 | 3P connector cord | |
| W252 | 204 0510 008 | 6P connector cord | |
| W253 | 204 2775 033 | 8P connector cord | |

KU-9

Ref. No.

SE

IC6

IC9

TR3

TR3

TR

TR

TR

TR

TR

TR

TR

D5

D5

D9

D9

D9

D9

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KU-9338 POWER P.W.B. UNIT ASS'Y

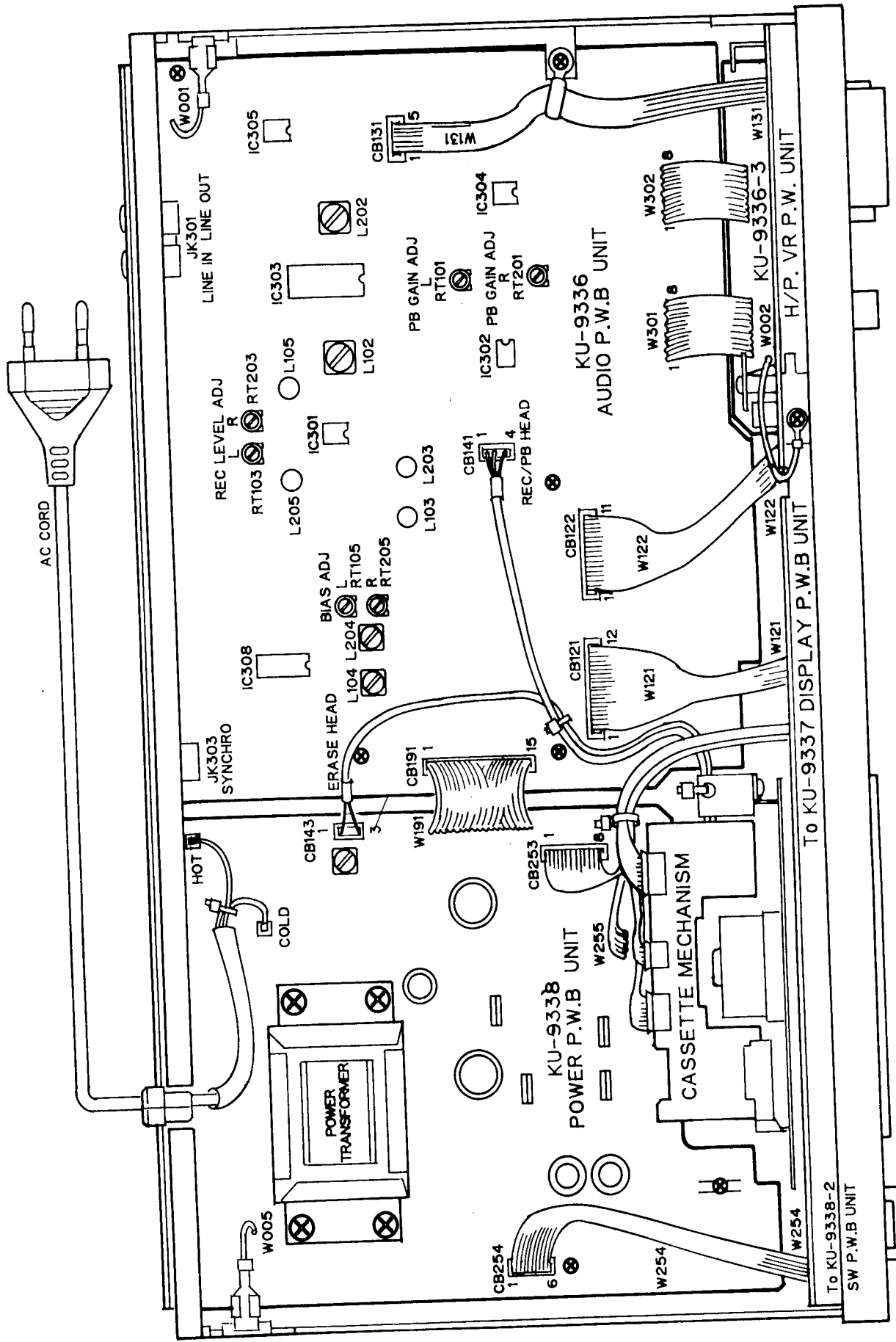
| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------------|--------------|-----------------------|---------|
| SEMICONDUCTORS GROUP | | | |
| IC601 | 262 0447 009 | IC BA6109 | |
| IC903 | 263 0793 002 | IC NJM7806FA | |
| TR312 | 269 0020 906 | Transistor DTC114ES | |
| TR313, 314 | 273 0303 004 | Transistor 2SC1740S | |
| TR510 ~512 | 274 0146 905 | Transistor 2SD1858Q/R | |
| TR513 | 269 0015 908 | Transistor DTC124XS | |
| TR550 | 274 0120 002 | Transistor 2SD1762E/F | |
| TR901 | 274 0126 002 | Transistor 2SD1762E/F | |
| TR902 | 272 0083 004 | Transistor 2SB1185Q/R | |
| TR904 | 272 0099 904 | Transistor 2SB1237Q/R | |
| TR905 | 274 0120 002 | Transistor 2SD1762E/F | |
| TR906 | 272 0083 004 | Transistor 2SB1185Q/R | |
| D501 | 276 0553 905 | Diode 1SR35-200A | |
| D502 | 276 0432 000 | Diode 1SS270A | |
| D901 ~904 | 276 0553 905 | Diode 1SR35-200A | |
| D905, 906 | 276 0432 000 | Diode 1SS270A | |
| D908 | 276 0432 000 | Diode 1SS270A | |
| D910, 911 | 276 0553 905 | Diode 1SR35-200A | |
| D915 ~918 | 276 0553 905 | Diode 1SR35-200A | |
| ZD302 | 276 0477 007 | Zener diode HZS16-1 | |
| ZD503 | 276 0457 001 | Zener diode HZS4C-1 | |
| ZD504 | 276 0465 006 | Zener diode HZS7B-1 | |
| ZD907 | 276 0460 001 | Zener diode HZS5C-1 | |
| ZD908 | 276 0457 001 | Zener diode HZS4C-1 | |
| ZD912 | 276 0479 005 | Zener diode HZS20-1 | |
| ZD913 | 276 0460 001 | Zener diode HZS5C-1 | |
| ZD920, 921 | 276 0467 004 | Zener diode HZS9A-1 | |

| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------|--------------|--|----------------|
| RESISTOR GROUP | | | |
| R322 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| R326, 327 | 241 2338 067 | Carbon 120k ohm 1/6W | RD14B--124J |
| R328, 329 | 241 2328 006 | Carbon 4.7 ohm 1/6W | RD14B--4R7J |
| R340 | 241 2334 045 | Carbon 2.2k ohm 1/6W | RD14B--222J |
| R523, 524 | 241 2336 001 | Metal oxide 56 ohm 2W Carbon 10k ohm 1/6W | RD14B--103J |
| R525 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| R528 | 241 2334 003 | Carbon 1.5k ohm 1/6W | RD14B--152J |
| R529 | 241 2315 912 | Carbon 10 ohm 1/4W | RD14B2E100GFRS |
| R550 | 241 2331 063 | Carbon 390 ohm 1/6W | RD14B--391J |
| R565 | 241 2331 064 | Carbon 150 ohm 1/6W | RD14B--151J |
| R566 | 241 2332 047 | Carbon 330 ohm 1/6W | RD14B--152J |
| R567 | 241 2335 031 | Carbon 5.1k ohm 1/6W | RD14B2E512J |
| R673 | 241 2331 022 | Carbon 100 ohm 1/6W | RD14B--101J |
| R674 | 241 2337 013 | Carbon 30k ohm 1/6W | RD14B--303J |
| R675 | 241 2336 001 | Carbon 10k ohm 1/6W | RD14B--103J |
| R904 | 241 2334 058 | Carbon 2.4k ohm 1/6W | RD14B--242J |
| R921 | 241 2336 072 | Carbon 20k ohm 1/6W | RD14B--203J |
| R922 | 241 2334 074 | Carbon 3k ohm 1/6W | RD14B--302J |
| R923 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| R924 | 241 2332 005 | Carbon 220 ohm 1/6W | RD14B--221J |
| R925 | 241 2333 062 | Carbon 1k ohm 1/6W | RD14B--102J |
| R926 | 241 2332 005 | Carbon 220 ohm 1/6W | RD14B--221J |
| R927 ~930 | 241 2313 985 | Carbon 4.7 ohm 1/4W | RD14B2E4R7JFRS |
| R950 | 241 2338 041 | Carbon 100k ohm 1/6W | RD14B--154J |

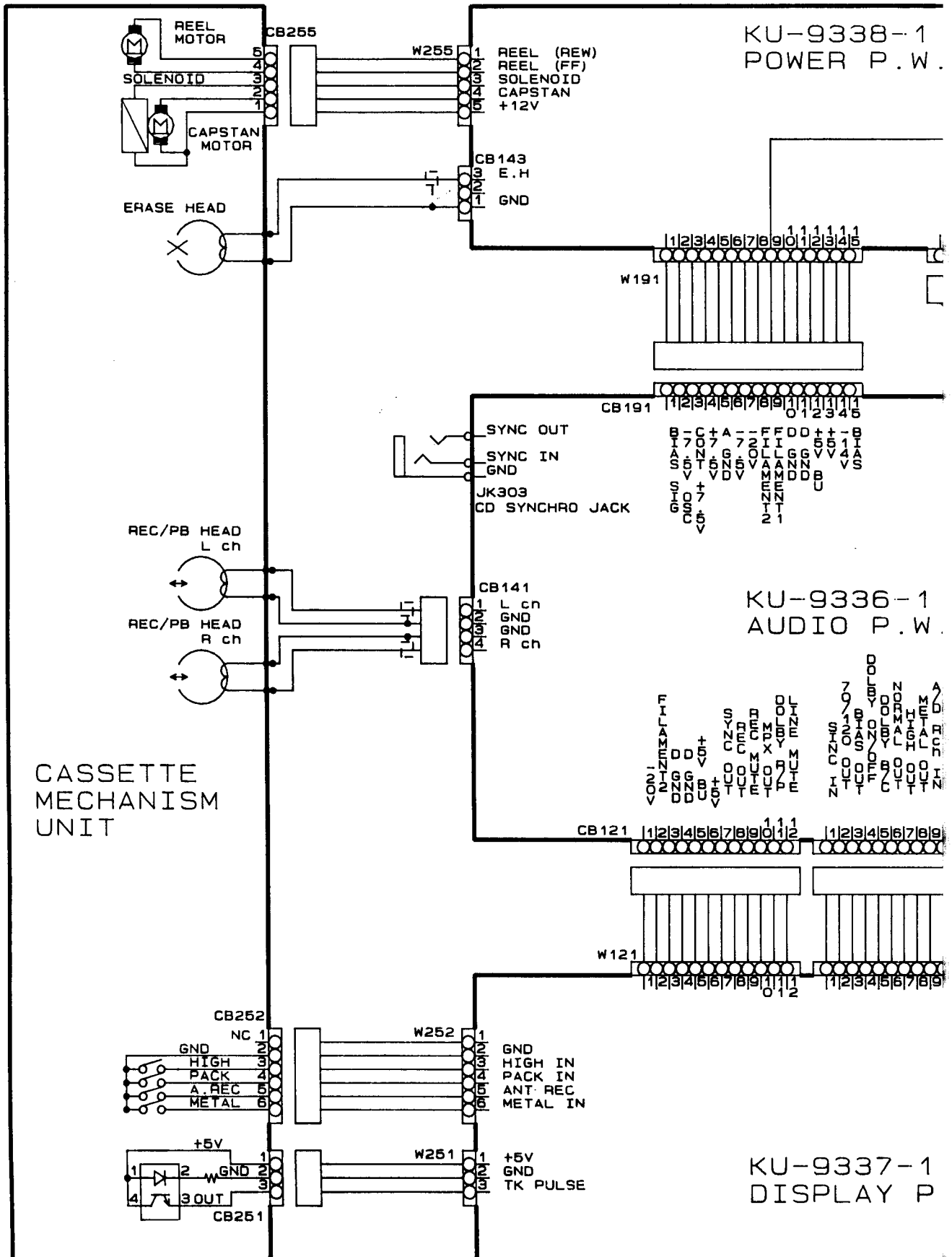
| Ref. No. | Part No. | Part Name | Remarks |
|-------------------------|--------------|-------------------------|--------------|
| CAPACITORS GROUP | | | |
| C314 | 253 4536 006 | Ceramic 10pF/50V | CC45SL1H100J |
| C319 | 254 4256 949 | Electrolytic 100µ/25V | CE04W1E101M |
| C320, 321 | 255 1140 019 | Film 3300pF/50V | CQ92M1H332J |
| C322 | 255 1134 025 | Film 0.01µF/50V | CQ92M1H103J |
| C323 | 255 1135 008 | Film 8200pF/50V | CQ92M1H822J |
| C324 | 255 1256 000 | Film 7500pF/50V | CQ92M1H752J |
| C512 | 253 9030 060 | Ceramic 0.01µF/25V | CK45-1E103K |
| C513 | 253 9030 086 | Ceramic 0.022µF/25V | CK45-1E223K |
| C514 | 254 4256 949 | Electrolytic 100µ/25V | CE04W1E101M |
| C520 | 254 4256 949 | Electrolytic 100µ/25V | CE04W1E101M |
| C902, 903 | 254 4256 088 | Electrolytic 1000µ/25V | CE04W1E102M |
| C908 | 254 4256 091 | Electrolytic 2200µ/25V | CE04W1E222M |
| C909 | 254 4250 097 | Electrolytic 4700µ/6.3V | CE04W0J472M |
| C910 | 254 4235 067 | Electrolytic 470µ/10V | CE04W1A471M |
| C911 | 253 9031 014 | Ceramic 0.068µF/25V | CK45-1E683Z |
| C913 | 254 4261 057 | Electrolytic 470µ/50V | CE04W1H471M |
| C914 | 254 4258 044 | Electrolytic 47µ/35V | CE04W1V470M |
| C915 | 254 4258 950 | Electrolytic 100µ/35V | CE04W1V101M |
| C917 | 254 4256 949 | Electrolytic 10µ/25V | CE04W1E100M |
| C922 | 254 4260 061 | Electrolytic 3.3µ/50V | CE04W1H3R3M |
| C923, 924 | 254 4256 936 | Electrolytic 47µ/25V | CE04W1E470M |
| C925, 926 | 254 4256 949 | Electrolytic 10µ/25V | CE04W1E100M |
| C927, 928 | 254 4256 936 | Electrolytic 47µ/25V | CE04W1E470M |
| C929 | 254 4258 044 | Electrolytic 47µ/35V | CE04W1V470m |

| Ref. No. | Part No. | Part Name | Remarks |
|--------------------|--------------|--------------------|---|
| OTHER PARTS | | | |
| L301 | 231 0078 005 | OSC coil | |
| SW523 | 212 1039 000 | Push switch | |
| SW520 | 212 9572 006 | Slide switch | |
| T901 | 233 9676 006 | Power transformer | Europe, U.K., Australia, Asia & Hongkong models |
| T901 | 233 9678 004 | Power transformer | U.S.A., Canada & Taiwan models |
| CB143 | 205 0981 009 | 3P connector base | |
| CB253 | 205 0981 041 | 8P connector base | |
| CB254 | 205 0981 038 | 6P connector base | |
| W191 | 204 6568 009 | 15P connector cord | |
| W255 | 203 8457 005 | 5P connector cord | |
| W254 | 204 0509 006 | 6P connector cord | |
| W005 | 203 0639 012 | 1P wire | |

BUNDLE DIAGRAM



WIRING DIAGRAM

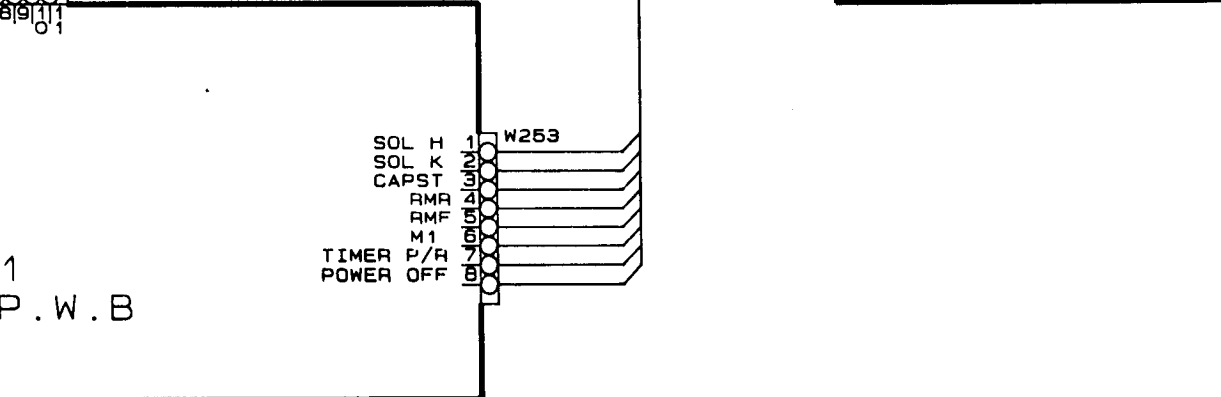
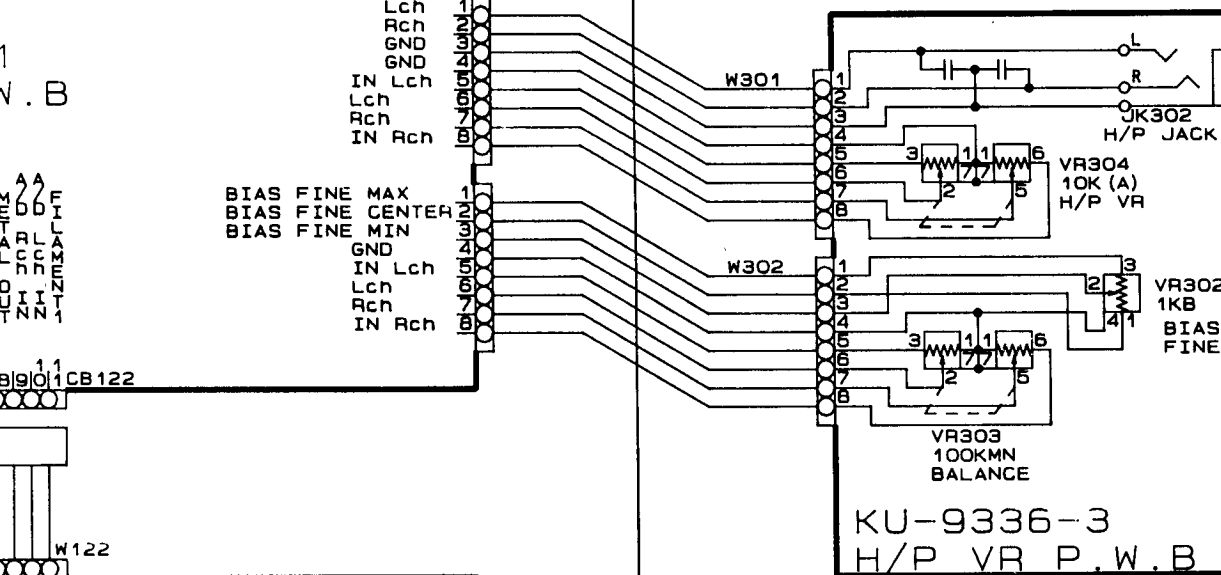
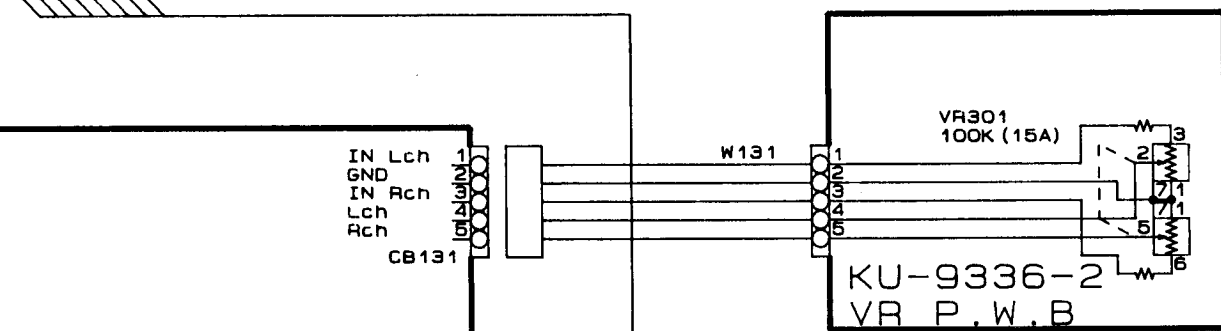
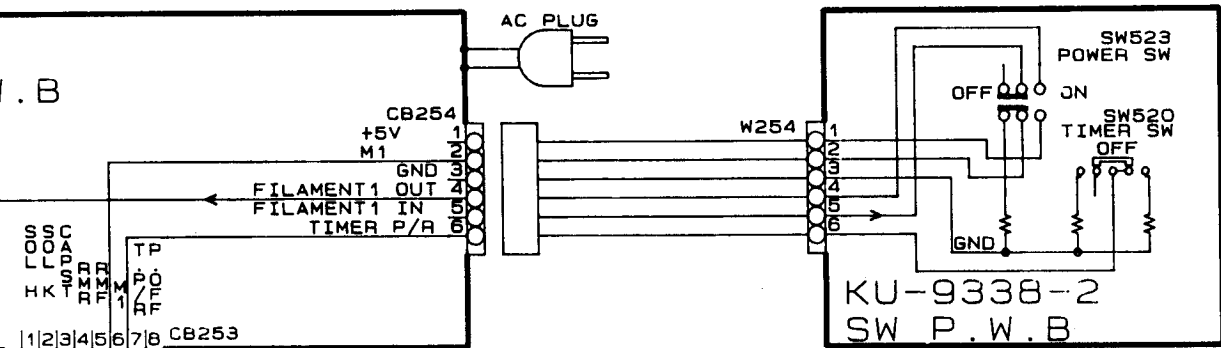


CASSETTE MECHANISM UNIT

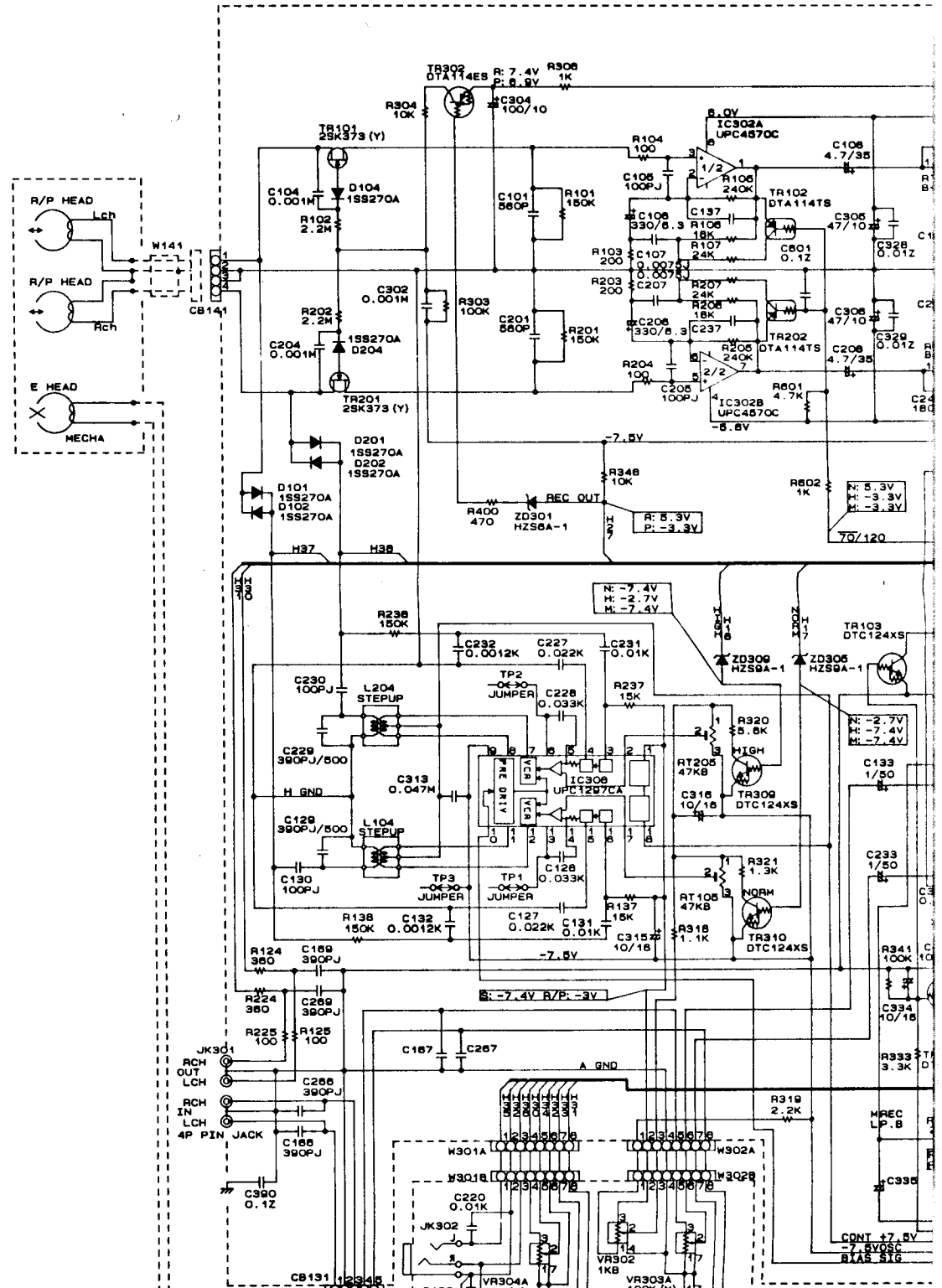
KU-9338-1
POWER P.W.

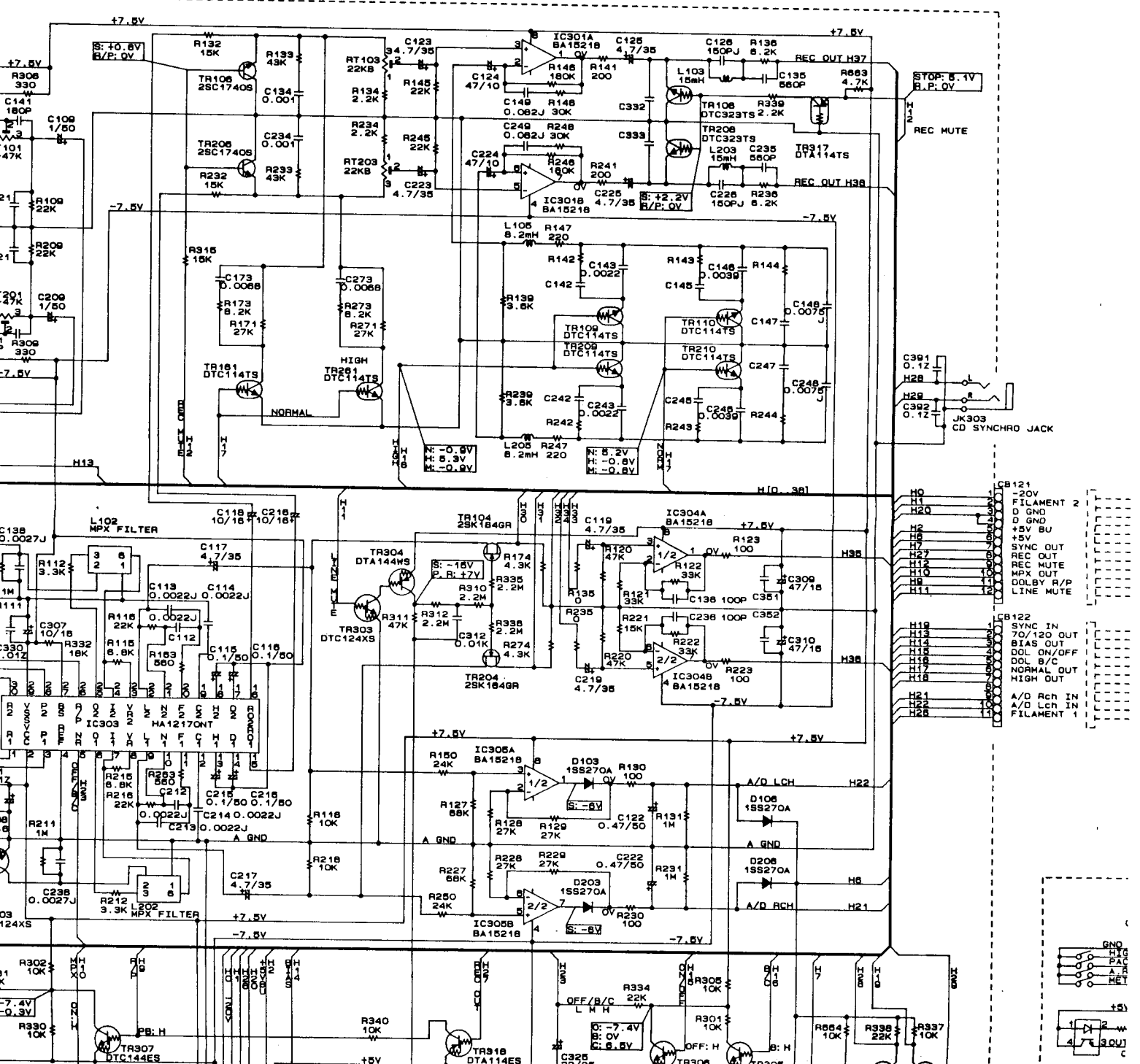
KU-9336-1
AUDIO P.W.

KU-9337-1
DISPLAY P



SCHEMATIC DIAGRAM





8

9

10

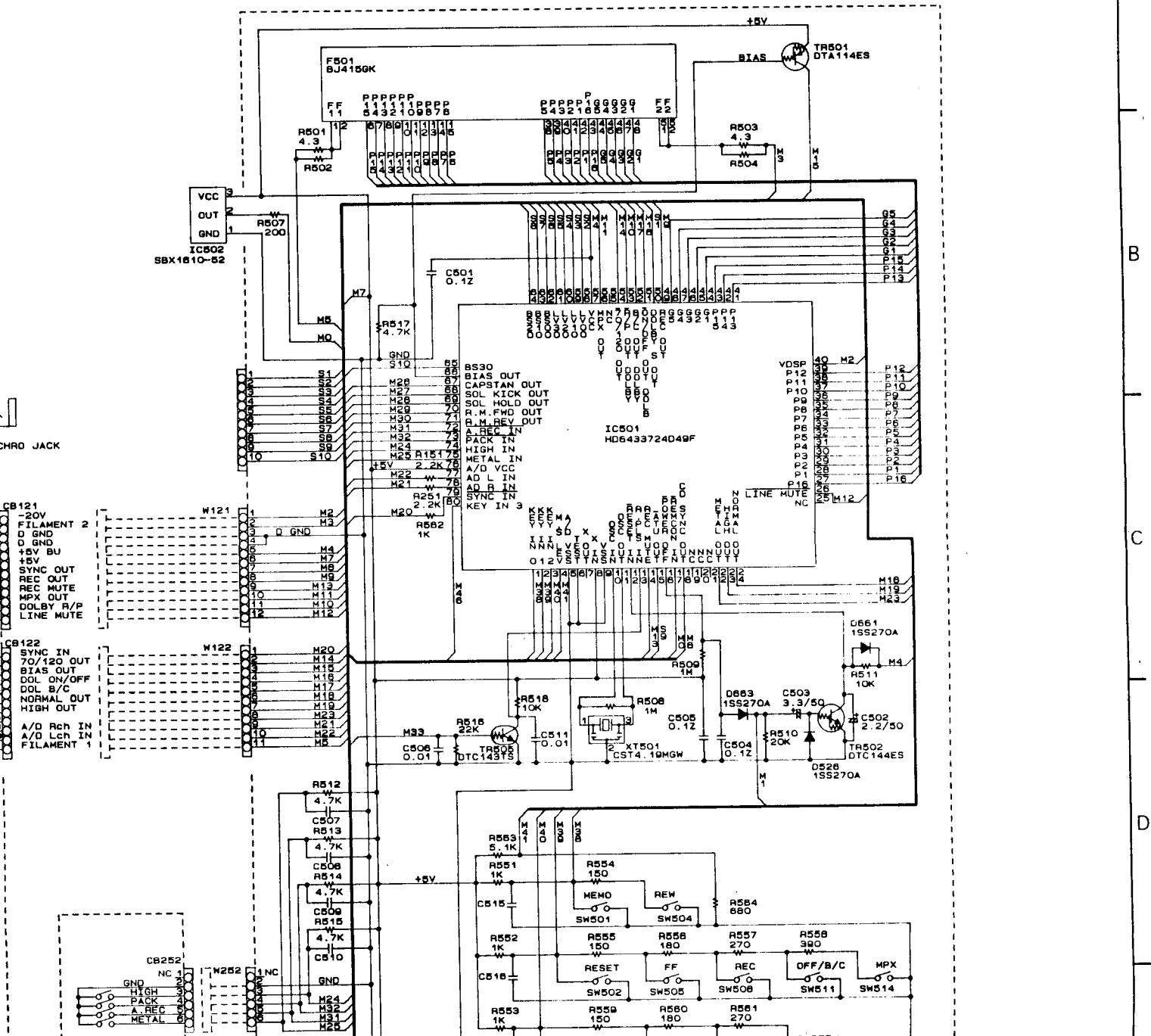
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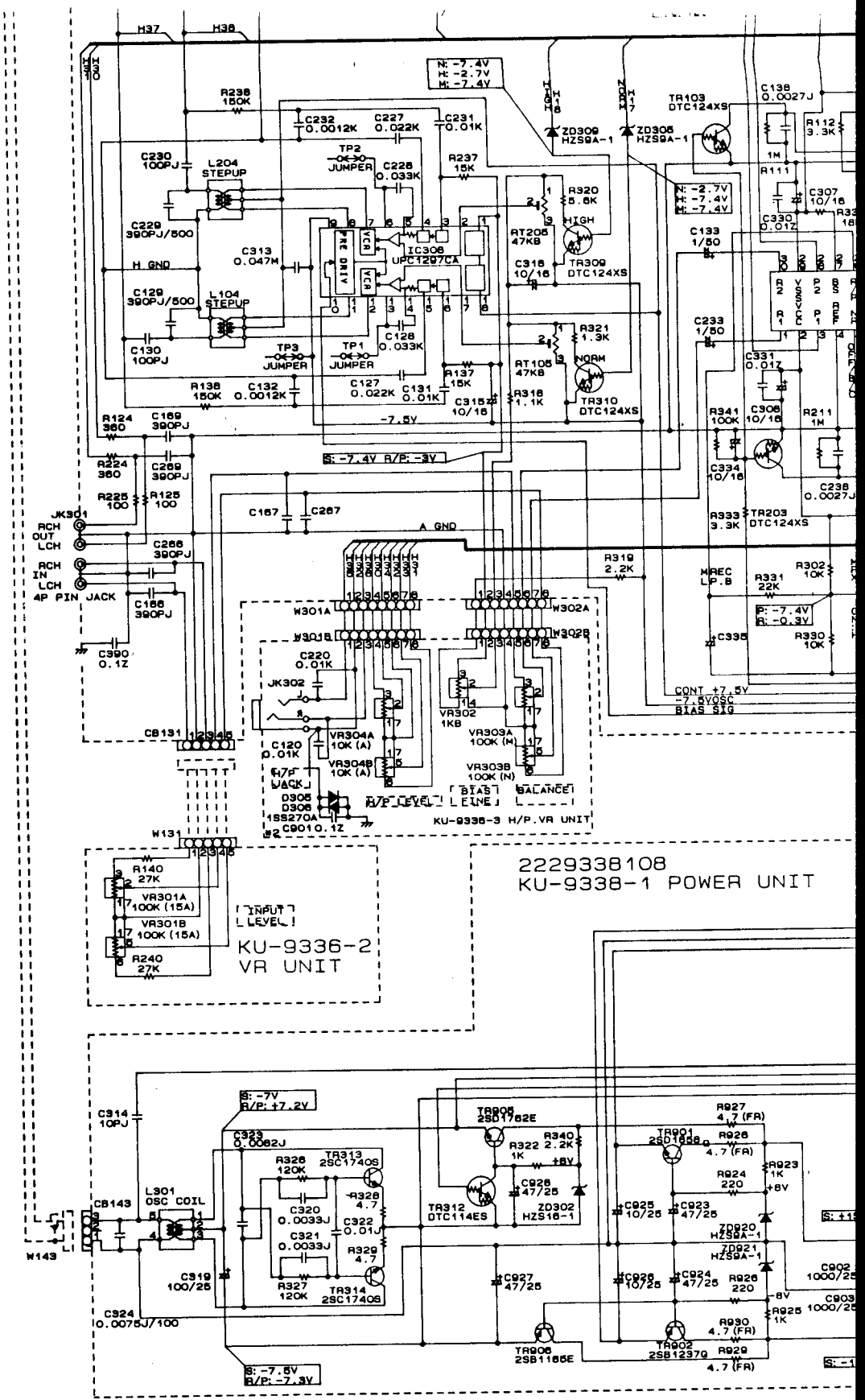
A

B

C

D

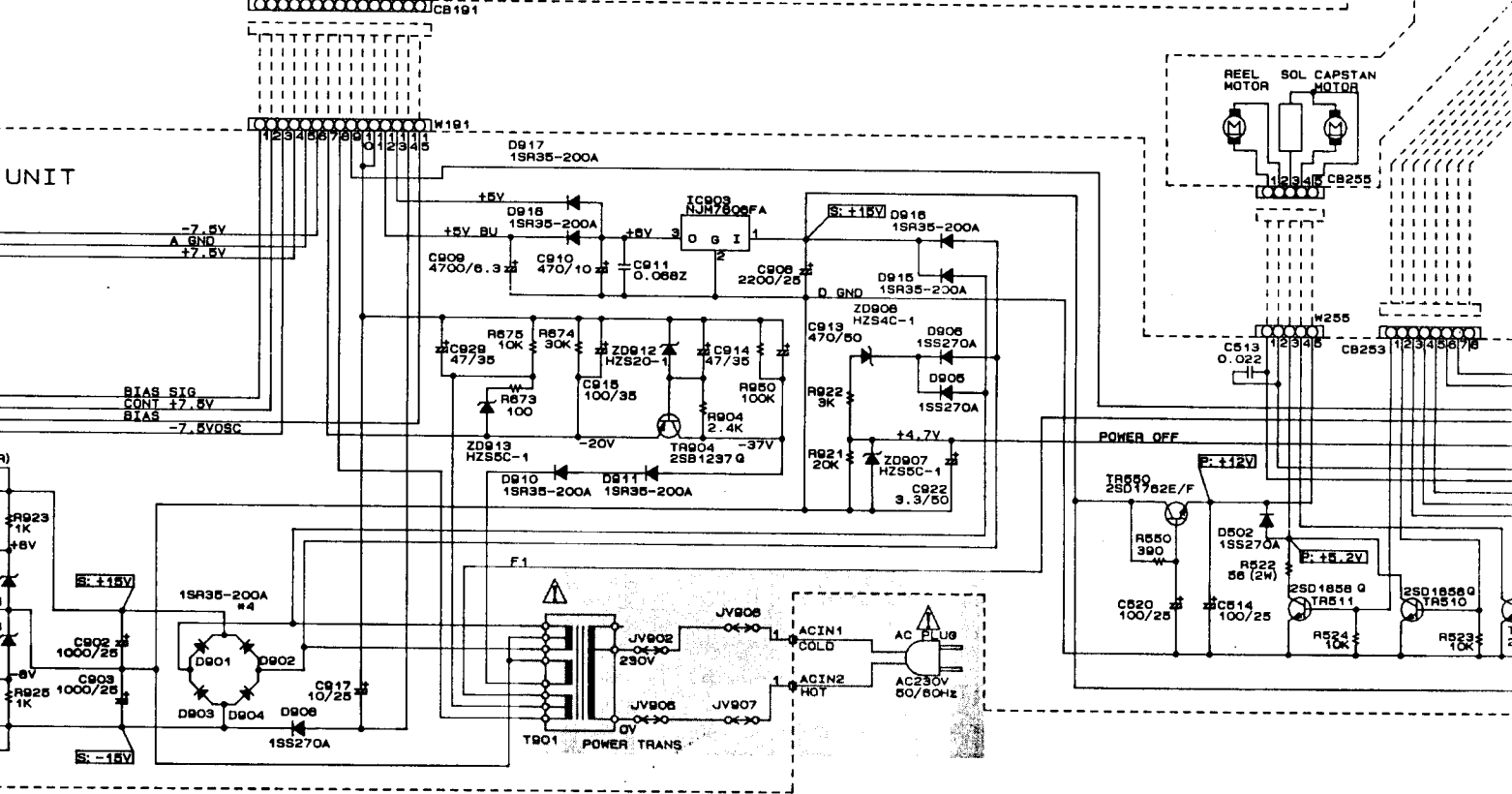
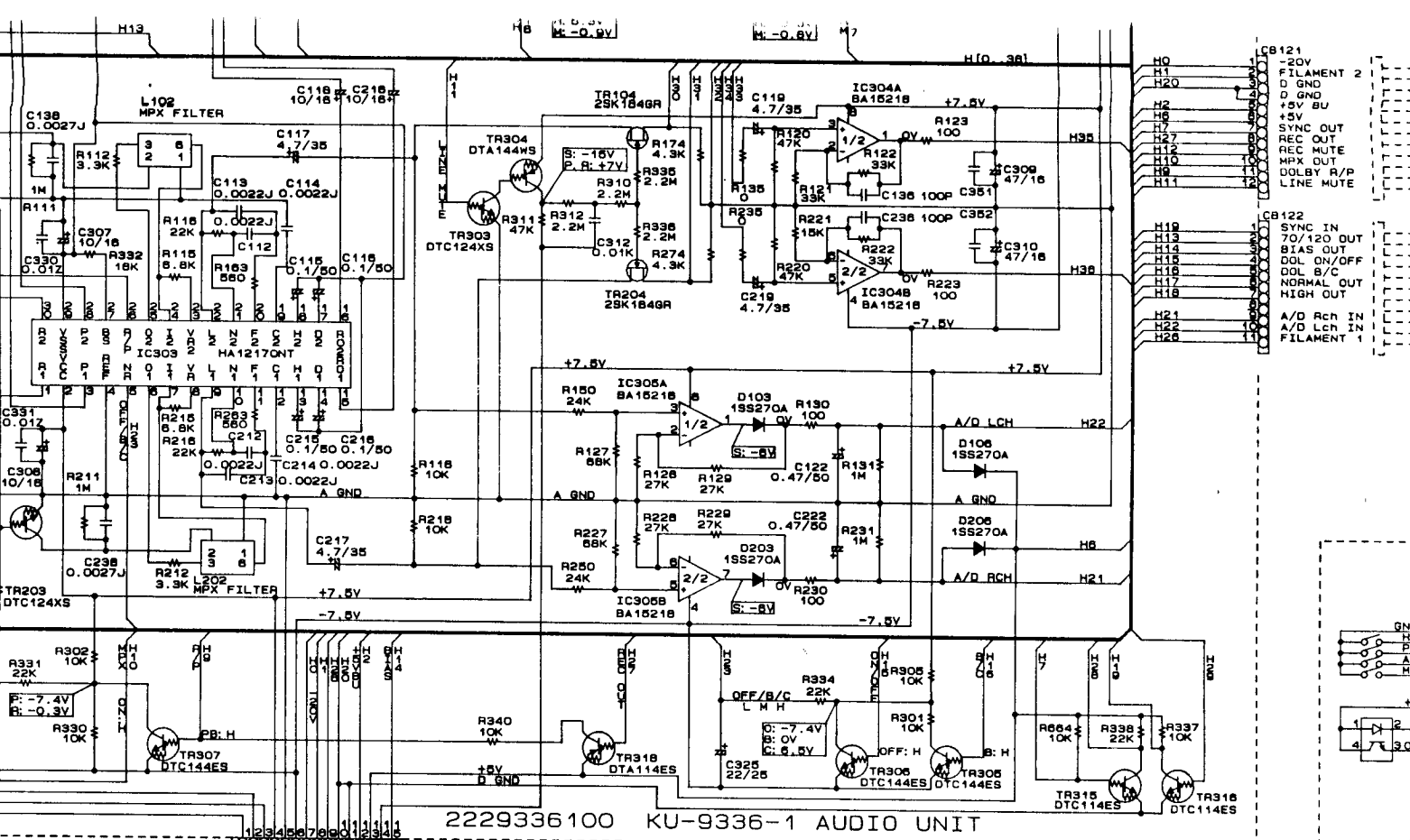




W301A, W301B, W302A, W302B, W303A, W303B, W304A, W304B, W305A, W305B, W306A, W306B, W307A, W307B, W308A, W308B, W309A, W309B, W310A, W310B, W311A, W311B, W312A, W312B, W313A, W313B, W314A, W314B, W315A, W315B, W316A, W316B, W317A, W317B, W318A, W318B, W319A, W319B, W320A, W320B, W321A, W321B, W322A, W322B, W323A, W323B, W324A, W324B, W325A, W325B, W326A, W326B, W327A, W327B, W328A, W328B, W329A, W329B, W330A, W330B

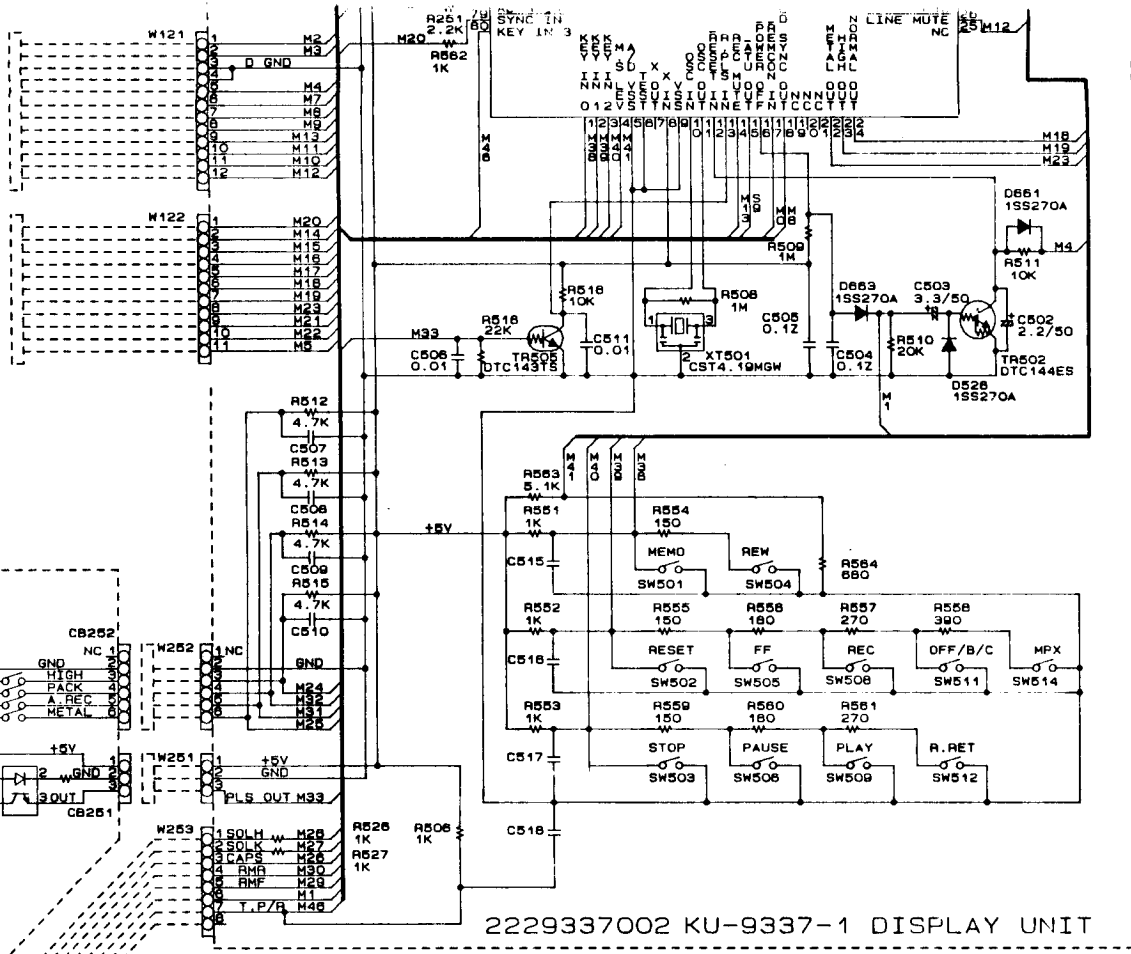
JK301
RCH OUT LCH
RCH IN LCH
4P PIN JACK
JK302
CB131
W131
R140
VR301A
VR301B
R240
INPUT 1 LEVEL!
VR UNIT
2229338108
KU-9338-1 POWER UNIT

2229338108
KU-9338-1 POWER UNIT

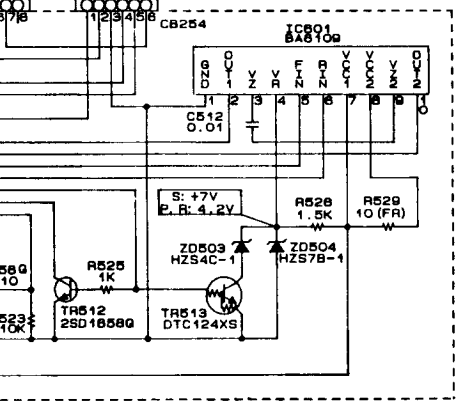
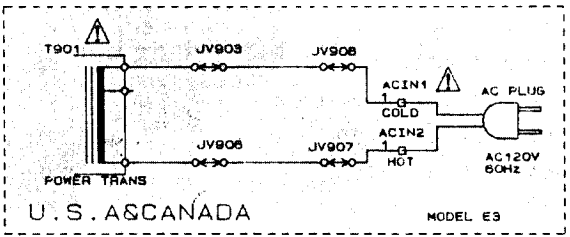
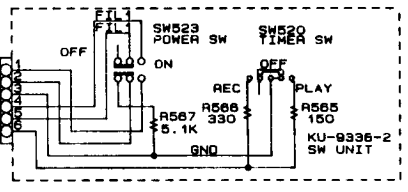


Note: •
•
•

Parts mark
Use ONLY



2229337002 KU-9337-1 DISPLAY UNIT

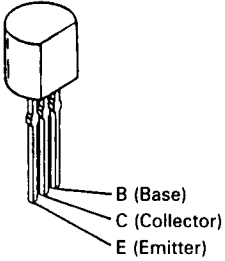


Note: ● Resistance shall be 1/4 W unless otherwise specified and the unit is ohm.
 ● The unit of capacitor is μF , P is pF unless otherwise specified.
 ● This circuit diagram shows the basic circuit. It is subject to change for the purpose of improvement.
 Parts marked with this symbol \triangle have critical characteristics.
 Use ONLY replacement parts recommended by the manufacturer.

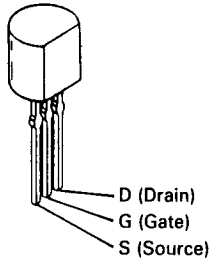
C
D
E
F
G
H

● TRANSISTORS

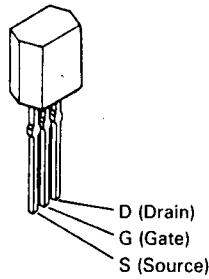
- 2SC1740S



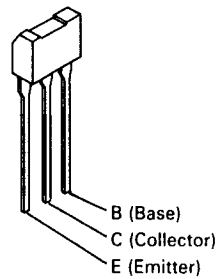
- 2SK373 (Y)



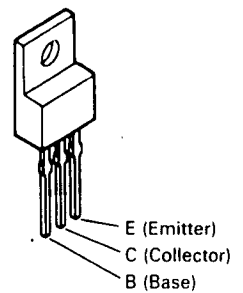
- 2SK184GR



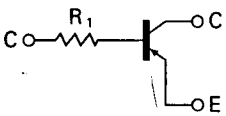
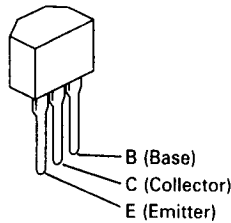
- 2SB1237Q/R
- 2SD1858Q/R



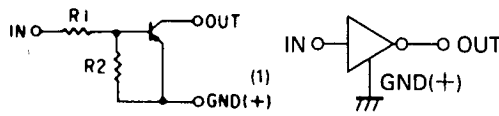
- 2SB1185Q/R
- 2SD1762E/F



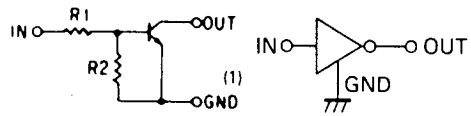
- DTA114ES
- DTA114TS
- DTA144WS
- DTC114ES
- DTC114TS
- DTC124XS
- DTC143TS
- DTC144ES



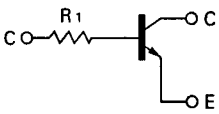
| | R1 |
|----------|---------|
| DTA114TS | 10 kohm |



| | R1 | R2 |
|----------|---------|---------|
| DTA114ES | 10 kohm | 10 kohm |
| DTA144WS | 47 kohm | 22 kohm |



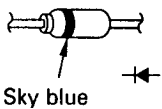
| | R1 | R2 |
|----------|---------|---------|
| DTC114ES | 10 kohm | 10 kohm |
| DTC124XS | 22 kohm | 47 kohm |
| DTC144ES | 47 kohm | 47 kohm |



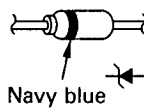
| | R1 |
|----------|----------|
| DTC114TS | 10 kohm |
| DTC143TS | 4.7 kohm |

● DIODES

- 1SS270A



- HZS4C-1
- HZS5C-1
- HZS6A-1
- HZS7B-1
- HZS9A-1
- HZS20-1



- 1SR35-200A

