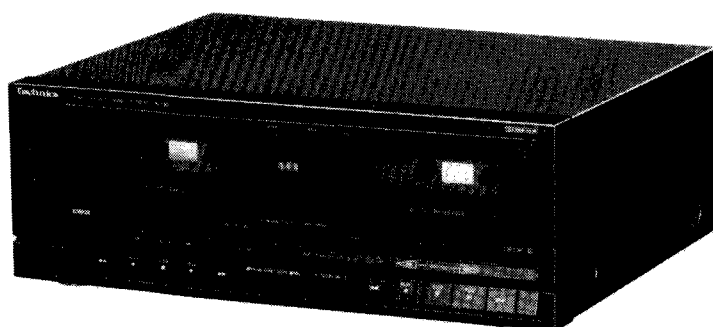


Service Manual

Dolby NR-Equipped
Stereo Double Cassette Deck

Cassette Deck
RS-X933



Color

(K)...Black Type

Area

Country Code	Area	Color
(E/E5)	Continental Europe.	(K)
(EB)	Great Britain.	(K)
(EG)	F.R.G. and Italy (West Germany).	(K)
(GC)	Third Region	(K)
(GN)	New Zealand.	(K)

SPECIFICATIONS

■ CASSETTE DECK SECTION

Deck system	Stereo cassette deck
Track system	4-track, 2-channel
Heads	
(tape deck A) Rec/play	Permalloy head
Erasing	Double-gap ferrite head
(tape deck B) play	Permalloy head
Motors	
(tape deck A) Capstan/reel table drive	DC servo motor
(tape deck B) Capstan/reel table drive	DC servo motor
Recording system	AC bias
Bias frequency	80 kHz
Erasing system	AC erase
Tape speed	4.8 cm/sec. (1-7/8 ips)
Frequency response (w/o Dolby NR)	
NORMAL	30 Hz~16 kHz
	40 Hz~15 kHz (DIN)
CrO ₂	30 Hz~16 kHz
	40 Hz~15 kHz (DIN)
METAL	30 Hz~18 kHz
	40 Hz~17 kHz (DIN)
S/N (signal level = max recording level, CrO ₂ type tape)	
Dolby C NR on	74 dB (CCIR)
Dolby B NR on	66 dB (CCIR)
Dolby NR off	56 dB (A weighted)

Wow and flutter 0.1 % (WRMS)

Fast forward and rewind times

Approx. 110 seconds with C-60 cassette tape

Input sensitivity and impedance

LINE 60 mV/47 kΩ

Output voltage and impedance

LINE 400 mV/800 Ω

■ GENERAL

Power consumption 15 W

Power supply AC 50/60 Hz 220 V

[(EG) area only]

Dimensions (W × H × D) 360 × 129 × 270 mm
(14-3/16" × 5-2/32" × 10-5/8")

Weight

For [EG] area. 4.0 kg (8.8 lb.)

For others. 3.5 kg (7.7 lb.)

Note:

Specifications are subject to change without notice.
Weight and dimensions are approximate.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

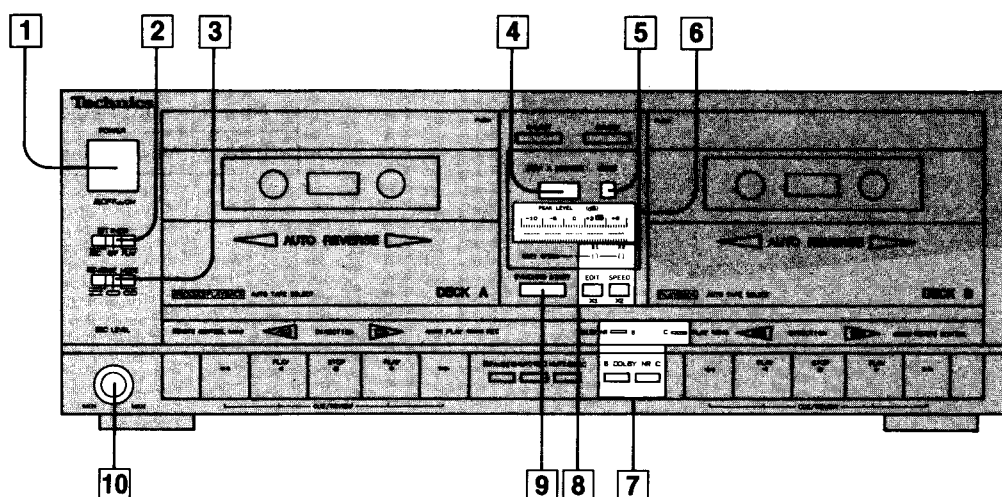
Technics

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

CONTENTS

	Page		Page
• Location of Controls	2, 3	• Terminal Guide of IC's, Transistors and Diodes	25
• Hot to Connection	4, 5	• Block Diagram	26, 27
• Disassembly Instructions	6~8	• Wiring Connection Diagram	28
• Information on Power Supply Jig	9	• Resistors & Capacitors	29~32
• Measurement and Adjustment Methodes.....	10~12	• Replacement Parts List (Electrical Parts).....	33~35
• Terminal Function of IC's	13, 14	• Mechanical Parts Location (DECK A)	36, 37
• Printed Circuit Boards	15~18	• Replacement Parts List (Mechanical Parts)	38, 39
• Schematic Diagram	19~25	• Mechanical Parts Location (DECK B)	40, 41
		• Cabinet Parts Location	42, 43
		• Replacement Parts List (Cabinet Parts)	44

LOCATION OF CONTROLS



Controls common to both tape decks

- 1 Power on/off switch (POWER)**
..... (E, E5, GC, GN) areas.
Power on/standby ϕ switch (POWER)
..... (EG) area.
Deck on/off switch (DECK)..... (EB) area.

- 2 Timer switch ($\square$ TIMER)**
This switch can be used to automatically begin a tape recording or tape playback at a certain time, selected by an optional timer.

- 3 Reverse-mode selector (REVERSE MODE)**
This selector can be used for selection of the reverse mode (for either playback or recording).

- 4 Tape counter (DECK A COUNTER)**
Indicates the amount of tape movement.

- 5 Tape counter reset button (RESET)**
This button can be used to reset the tape counter indication to "000".

6 Input level meter (PEAK LEVEL)

During tape playback, this meter indicates the level of the recorded sound source.
During recording, it indicates the level to which the recording-level control has been adjusted.

7 Dolby noise-reduction buttons/indicators (DOLBY NR)

These buttons can be used to reduce the hiss noise that is characteristic of tape. This unit is provided with both the B-type and C-type noise-reduction systems.

8 Edit-recording tape-speed buttons/ indicators (EDIT SPEED)

These buttons can be used to select the recording speed when a tape-to-tape recording is made.

9 Synchro-start button (SYNCHRO START)

This button can be used to start a tape-to-tape recording, simultaneously starting tape deck B (the playback deck) and tape deck A (the recording deck).

10 Recording-level control (REC LEVEL)

This control can be used to regulate the recording level of tape deck A.

Cassette Deck

RS-X933

DEUTSCH

MESSUNGEN UND EINSTELL METHODEN

Meßinstrumente

- Elektronisches Voltmeter (EVM)
- Oszilloskop
- Digitaler Frequenzmesser
- Audiofrequenz-Oszillator
- Dämpfungswiderstand
- Gleichstrom-Voltmeter
- Widerstand (600Ω)

Tonkopf-Azimuteinstellung (Deck A/B)

1. Spielen Sie auf dem Testband (QZZCFM) den Teil für die Azimuteinstellung (8kHz, -20dB) ab. Drehen Sie die Azimuteinstellschraube so lange, bis die Abgaben des L-K und R-K den Höchstwert erreichen, und die Lissajoscghe wellenfigur sich, wie abgebildet, 0 Grad nähert.

Anmerkung:

When L-K und R-K nicht auf demselben Punkt ihren Höchstwert erreichen, stellen Sie beide Kanäle auf den jeweiligen Höchstwert und gleichen dann aus.

2. Nehmen Sie denselben Einstellvorgang in der Wiedergabestellung vor.

Prüfung des Pegelunterschiedes bei Vorwärts- und Rückwärtsdrehung

3. Den Abschnitt für Verstärkungseinstellung (315Hz, 0dB) des Prüfbandes (QZZCFM) wiedergeben und sicherstellen, daß der Pegelunterschied bei Vorwärts- und Rückwärtsdrehung kleiner als 1dB ist.
4. Nach der Einstellung Schrauben-Sicherungsmittel an die Azimuth-Einstellschraube geben.

Bandgeschwindigkeits-einstellung (Deck A/B)**Normale Geschwindigkeit**

1. Den Wahlschalter für Editier-Bandgeschwindigkeit auf "x1" stellen.
2. Den mittleren Teil des Prüfbandes (QZZCWAT) wiedergeben.
3. Deck B= VR902 und Deck A=VR903 so einstellen, daß

Hohe Geschwindigkeit

4. Den Wahlschalter für Editier-Bandgeschwindigkeit auf "x2" stellen und den Prüfmoduspunkt und GND verbinden.
5. Den mittleren Teil des Prüfbandes (QZZCWAT) wiedergeben.
6. Deck B= VR901 so einstellen, daß der Ausgang dem Sollwert entspricht.

Einstellung der Wiedergabeverstärkungsregelung (Deck A/B)

1. Spielen Sie auf dem Testband (QZZCFM) den Teil für die Einstellung der Verstärkungsregelung (315Hz, 0dB) ab.
2. Stellen Sie VR3 (L-K) [[VR4 (R-K)]] für Deck B uon VR5 (L-K) [[VR6 (R-K)]] für Deck A so ein, daß die Abgabe den Normwert erfüllt.

Wiedergabefrequenzaang (Deck A/B)

1. Spielen Sie auf dem Testband (QZZCFM) den Teil für den Frequenzgang (315Hz, 12,5kHz~63Hz, -20dB) ab.
2. Achten Sie darauf, daß der Frequenzgang für beide Kanäle (L-K, R-K) in dem in Abb. 6 gezeigten Bereich liegt.

Löschstromeinstellung (Deck A)

1. Die leere Metallband-Prüfkassette (QZZCRZ) einsetzen und das Gerät auf Aufnahmepause schalten.
2. **VR301** so einstellen, daß der Ausgang zwischen **TP3** und **GND** dem Sollwert entspricht.

Gesamtfrequenzgang (Deck A)

1. Legen Sie das normale Leertestband (QZZCRA) ein und stellen das Gerät auf Aufnahme-/Pause-Betrieb.
2. Geben Sie über einen Lautstärkeregler ein Bezugseingabesignal (1 kHz, -24 dB) ein.
3. Stellen Sie das Signal auf 20 dB und justieren die Frequenz von 50 Hz ~ 10 kHz.
4. Nehmen Sie das Wobbelsignal auf.
5. Geben Sie das aufgenommene Signal wieder und achten darauf, daß dieses sich im Vergleich zur Bezugsfrequenz (1 kHz) in dem in **Abb. 8** aufgezeichneten Bereich befindet.
6. Sollte das Signal nicht im Normbereich liegen, justieren Sie **VR303** (L-K) und **VR302** (R-K), so daß der Frequenzpegel mit der Norm übereinstimmt.
7. Wiederholen Sie die Schritte 2~6 und verwenden das CrO₂ Band (QZZCRX) und das Metallband (QZZCRZ). Der Frequenzbereich wird auf 12.5 kHz (50 Hz ~ 12.5 kHz) angehoben.
8. Achten Sie darauf, daß sich der Frequenzpegel in dem in **Abb. 9** aufgezeigten Bereich befindet.

Einstellung der Gesamtverstärkungsregelung (Deck A)

1. Legen Sie das normale Leertestband (QZZCRA) ein und stellen das Gerät auf Aufnahme-/Betrieb.
2. Legen Sie ein Bezugseingabesignal (1 kHz, -24 dB) an. Stellen Sie das Ausgangssignal auf einen Pegel von 0.4 V ein.
3. Nehmen Sie das Eingabesignal auf.
4. Geben Sie das in Schritt 3 oben aufgenommene Signal wieder und achten Sie darauf, daß das Ausgangssignal mit dem Normwert übereinstimmt.
5. Sollte der Wert nicht innerhalb der Norm liegen, justieren Sie **VR7** (L-K) und **VR8** (R-K).
6. Wiederholen Sie die Schritte 2~5 von oben so lange, bis das Ausgangssignal im Normbereich liegt.

FRANÇAIS

METHODES DES MEASURES ET REGLAGES

Appareils de mesurage • Voltmètre électronique • Oscilloscope • Compteur de fréquence numérique • Oscillateur de fréquence audio • A.T.T. (Atténuateur) • Voltmètre à C.C. • Résistance (600Ω)	
Reglage Azimutal de la tete (Platine A/B) 1. Faire jouer la portion du réglage de l'azimuth (8kHz, −20dB) de la bande d'essai (QZZCFM). Ajuster la vis de la mise au point azimuthale jusqu'à ce que les sorties du canal de gauche et du canal de droite soient maximisées et que la forme d'onde de Lissajous, comme il est illustré, approche de 0 degré. Nota: Si le canal de gauche et canal de droite ne sont pas maximisés au même point, régler le point où les niveaux de chaque canal sont maximisés et égaux. 2. Effectuer le même réglage sur le mode d'audition.	Vérification de la différence de niveau pour les deux sens de rotation 3. Introduire une bande métal vierge prévue pour les essais (QZZCPZ) et vérifier que la différence de niveau pour les deux sens de rotation est inférieure à 1 dB. 4. Après cela, mettre une goutte de vernis de blocage sur la vis de réglage de l'azimut.
Réglage de la vitesse de défilement Vitesse (Platine A/B) normal 1. Placer le sélecteur de vitesse d'édition sur la position "x1". 2. Lire la partie centrale de la bande d'essai (QZZCWAT). 3. Régler VR902 pour la platine B et VR901 pour la platine A de manière que la sortie ait la valeur standard. Grande vitesse 4. Placer le sélecteur de vitesse d'édition sur la position "x2" et relier le point de test et la masse (GND). 5. Lire la partie centrale de la bande d'essai (QZZCWAT). 6. Régler VR901 pour la platine B de manière que la sortie ait la valeur standard.	
Reglage de L'amplification de Lecture (Platine A/B) 1. Faire jouer la partie réglée de l'amplification (315Hz, 0dB) de la bande d'essai (QZZCFM). 2. Régler la platine B: VR3 (canal de gauche) [VR4 (canal de droite)] et la platine A: VR5 (canal de gauche) [VR6 (canal de droite)] de telle sorte que la sortie soit en deçà de la valeur standard.	
Reponse en Frequence de la Lecture (Platine A/B) 1. Faire jouer la partie de la réponse en fréquence (315Hz, 12.5kHz, −63Hz, −20dB) de la bande d'essai (QZZCFM). 2. S'assurer que la réponse en fréquence soit en deçà de la plage montrée dans la Fig. 6, à la fois pour le canal de gauche et le canal de droite.	

Réglage du courant d'effacement (Platine A) 1. Introduire une bande métal vierge prévue pour les essais (QZZCRZ) et régler l'appareil en mode de pause d'enregistrement. 2. Régler VR301 de manière que la sortie entre TP3 et GND ait la valeur standard.	
Reponse en Frequence Totale (Platine A) 1. Introduire la bande d'essai vierge normale (QZZCRA) et régler l'appareil sur le mode d'intermission d'un disque. 2. Appliquer un signal d'entrée de référence (1kHz, −24dB) par l'intermédiaire d'un atténuateur. 3. Diminuer le signal de 20dB et régler la fréquence de 50Hz~10kHz. 4. Enregistrer le balayage de fréquence. 5. Faire jouer le signal enregistré et s'assurer qu'il soit en deçà de la plage montrée à la Fig. 8 en comparaison à la fréquence de référence (1kHz). 6. S'il n'est pas en deçà de la plage standard, régler VR303 (canal de gauche) et VR302 (canal de droite) de telle sorte que le niveau de fréquence soit en deçà de la plage standard. 7. Répéter les étapes 2~6 ci-dessus en utilisant la bande CrO₂ (QZZCRX) et la bande métallisée (QZZCRX) en augmentant la plage de fréquence à 12.5kHz (50Hz~12.5kHz). 8. S'assurer que le niveau soit en deçà de la plage montrée à la Fig. 9.	
Reglage de L'amplification Totale (Platine A) 1. Introduire la bande d'essai vierge normale (QZZCRA) et régler l'appareil sur le mode d'intermission d'un disque. 2. Appliquer un signal d'entrée de référence (1kHz, −24dB). Diminuer la sortie de telle sorte que son niveau devienne de 0.4V. 3. Enregistrer ce signal d'entrée. 4. Faire jouer le signal enregistré à l'étape 3 ci-dessus, et s'assurer que la sortie en deçà de la valeur standard. 5. Si elle n'est pas en deçà de la valeur standard, régler VR7 (canal de gauche) et VR8 (canal de droite). 6. Répéter les étapes 2~5 ci-dessus jusqu'à ce que la sortie soit en deçà de la valeur standard.	

ESPAÑOL

METODOS DE AJUSTE Y MEDIDA

Instrumento de medición

- EVM (Voltmetro electrónico)
- Osciloscopio
- Frecuencímetro digital
- Oscilador AF
- ATT (Atenuador)
- Voltmetro CC
- Resistor (600Ω)

Ajuste Azimutal de Cabeza (Platina A/B)

1. Reproducir la porción de ajuste azimutal (8kHz, -20dB) de la cinta de prueba (QZZCFM). Variar el tornillo de ajuste azimutal hasta que las salidas del CH-I y CH-D se maximicen y forma de onda de lissajous, como ilustrado, se acerque a grado 0.

Nota:

Si CH-I y CH-D no son maximizados en el mismo punto, ajustar al punto donde los niveles de cada canal sean maximizados e igualados.

2. Efectuar el mismo ajuste en la modalidad de reproducción.

Comprobación de la diferencia de nivel de giro hacia adelante y hacia atrás

3. Reproduzca la parte del ajuste de ganancia (315Hz, 0dB) de la cinta de prueba (QZZCFM) y luego asegúrese de que la diferencia de nivel de giro hacia adelante y hacia atrás sea menor que 1dB.
4. Después del ajuste, aplique pintura de fijación al tornillo de ajuste del azimut.

Ajuste de la Velocidad de la Cinta (Platina A/B)

Velocidad normal

1. Lleve a "x1" el selector de la velocidad de la cinta de edición.
2. Reproduzca la sección central de la cinta de prueba (QZZCWAT).
3. Ajuste la platina B= VR902 y la platina A= VR903 de modo que la salida quede comprendida dentro de los valores estándares.

Alta velocidad

4. Lleve a "x2" el selector de la velocidad de la cinta de edición y conecte GND y el punto de la modalidad de prueba.
5. Reproduzca la sección central de la cinta de prueba (QZZCWAT).
6. Ajuste la platina B= VR901 de modo que la salida quede comprendida dentro de los valores estándares.

Ajuste de Ganancia de Reproduccion (Platina A/B)

1. Reproducir la porción ajustada de ganancia (315Hz, 0dB) de la cinta de prueba (QZZCFM).
2. Ajustar la Platina B: VR3 (CH-I) [VR4 (CH-D)] y la Platina A: VR5 (CH-I) [VR6 (CH-D)] de manera que la salida esté dentro del valor estándar.

Respuesta de Frecuencia de Reproduccion (Platina A/B)

1. Reproducir la parte de respuesta de frecuencia de reproducción (315Hz, 12.5kHz~63Hz, -20dB) de la cinta de prueba (QZZCFM).
2. Asegurarse de que la respuesta de frecuencia esté dentro de la gama mostrada en la Fig. 6 para ambos CH-I y CH-D.

Ajuste de la Corriente de Borrado (Platina A)

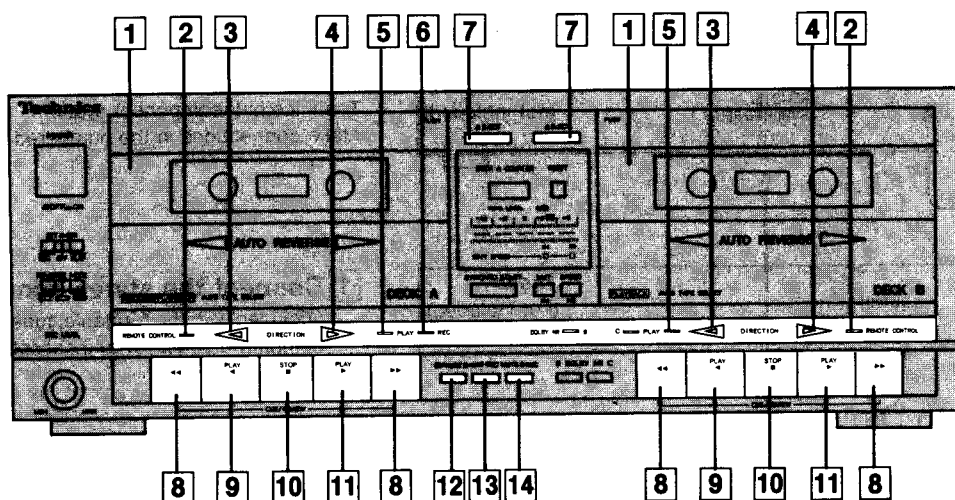
1. Inserte la cinta de prueba metálica en blanco (QZZCRZ) y ponga el aparato en la modalidad de pausa de grabación.
2. Regule VR301 de modo que la salida entre TP3 y GND esté dentro de los valores estándares.

Respuesta de Frecuencia Total (Platina A)

1. Poner una cinta virgen normal (QZZCRA) y poner la unidad en la modalidad de Pausa de Grabación.
2. Aplicar la señal de entrada de referencia (1kHz, -24dB) a través de un atenuador.
3. Atenuar la señal por 20dB y ajustar la frecuencia de 50Hz~10kHz.
4. Grabar el barrido de frecuencia.
5. Reproducir la señal grabada y asegurarse de que esté dentro de la gama mostrada en la Fig. 8 en comparación con la frecuencia de referencia (1kHz).
6. Si no está dentro de la gama de frecuencia, ajustar VR303 (CH-I) y VR302 (CH-D) de manera que el nivel de frecuencia esté dentro de la gama estándar.
7. Repetir los pasos 2~6 de arriba utilizando la cinta CrO2 (QZZCRX) y la cinta metálica (QZZCRZ) incrementando la gama de frecuencia a 12.5kHz (50Hz~12.5kHz).
8. Asegurarse de que el nivel esté dentro de la gama mostrada en la Fig. 9.

Ajuste de Ganancia Total (Platina A)

1. Insertar la cinta de prueba en blanco normal (QZZCRA) y poner la unidad en modalidad de pausa de Grabación.
2. Aplicar la señal de entrada de referencia (1kHz, -24dB). Atenuar la salida de manera que su nivel se haga 0.4V.
3. Grabar la señal de entrada.
4. Reproducir la señal grabada en el paso 3 de arriba y asegurarse de que la salida esté dentro del valor estándar.
5. Si no está dentro del valor estándar, ajustar VR7 (CH-I) y VR8 (CH-D).
6. Repetir el paso 2~5 de arriba hasta que la salida esté dentro del valor estándar.



Controls applicable to tape deck A and/or B

1 Cassette holder

2 Remote-control Indicator (REMOTE CONTROL)

This indicator illuminates to indicate that this tape deck can now be controlled by the remote-control transmitter.

3 Reverse-side Indicator (◀)

This indicator illuminates, during playback or recording of tape deck A, to indicate that side "B" of the tape is being used.

4 Forward-side indicator (▶)

This indicator illuminates, during playback or recording of tape deck A, to indicate that side "A" of the tape is being used.

5 Playback Indicator (PLAY)

When this indicator illuminates steadily, it indicates that this tape deck is in the playback mode or the recording mode. (for tape deck A only)

When it flashes continually, this is an indication that the tape deck A is in the pause mode or the recording stand-by mode.

6 Recording indicator (REC)

This indicator illuminates to indicate that the tape deck A is in the recording stand-by mode or is recording.

7 Eject button (▲/EJECT)

This button can be used to open the cassette holder.

8 Fast-forward/cue, rewind/review buttons (◀◀/▶▶)

These buttons are used to advance or rewind the tape. During playback these buttons are used to cue or review while listening to the contents at high speed.

9 Reverse-side playback button (◀/PLAY)

This button can be used to start the playback or recording (of deck A only) of side "B" of the cassette in this tape deck. (The tape will then begin moving in the right-to-left direction.)

10 Stop button (■/STOP)

This button can be used to stop tape movement.

11 Forward-side playback button (▶/PLAY)

This button can be used to start the playback or recording (of deck A only) of side "A" of the cassette in this tape deck. (The tape will then begin moving in the left-to-right direction.)

12 Pause button (|| PAUSE)

This button can be used to temporarily stop the tape playback or recording of deck A only.

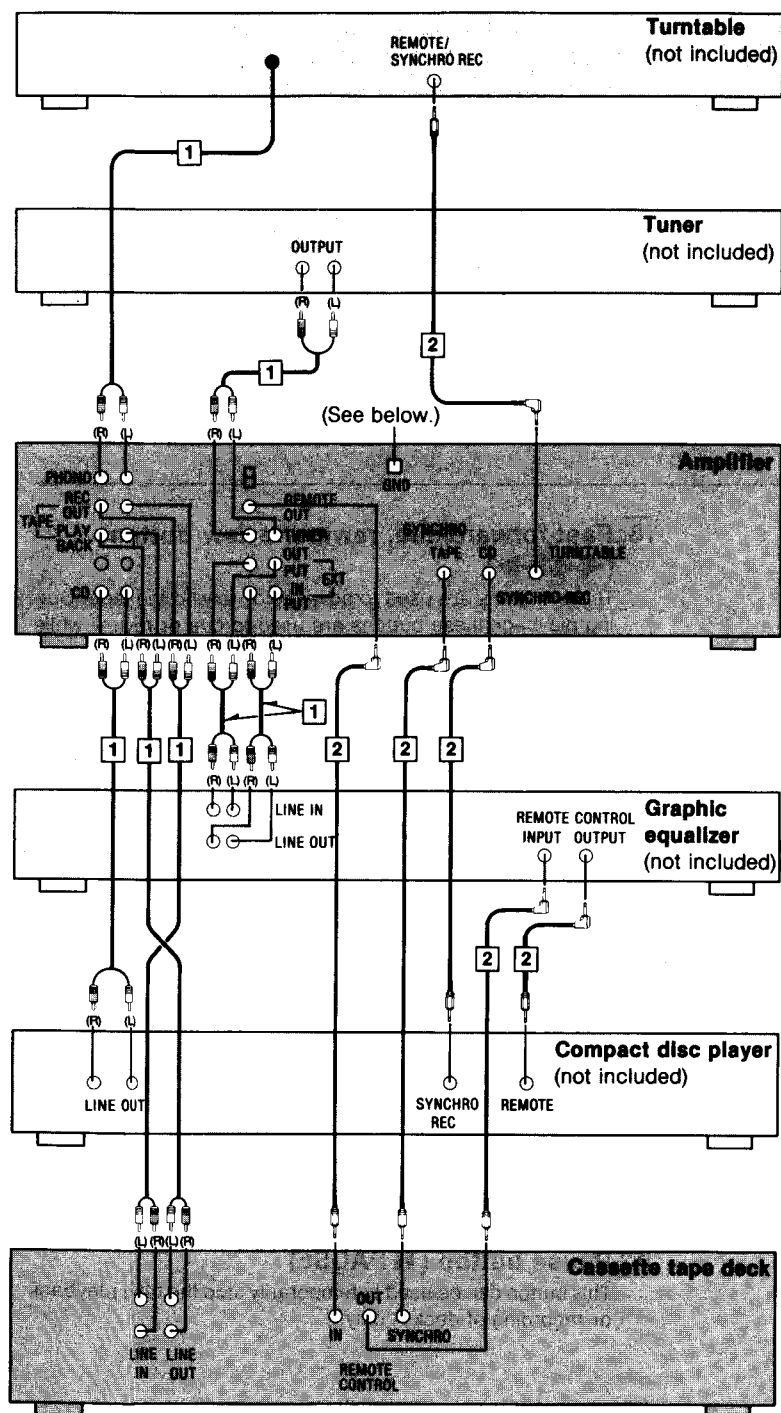
13 Automatic-record-muting button (● AUTO REC MUTE)

This button can be used to make (during recording) a silent interval on the tape.

14 Record button (● REC)

This button can be used to change the tape deck A to the recording stand-by mode.

HOW TO CONNECTION



Connection diagrams shown are for connections to a Technics hi-fi component system. Make connections in the numbered sequential order.

- 1 Connect the stereo connection cables**
(included with the turntable, tuner, graphic equalizer, compact disc player and cassette tape deck).

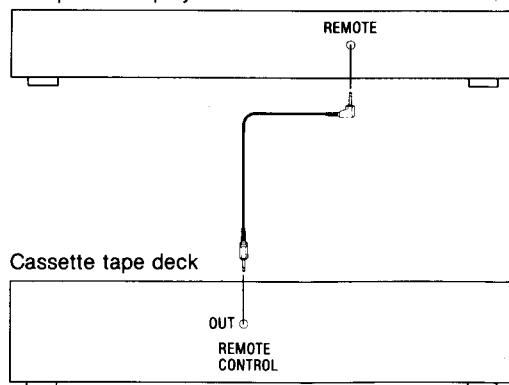
- 2 Connect the L-type cables**
(included with the turntable, compact disc player, graphic equalizer and cassette tape deck).

Note:

Connect the L-type cables included with a compact disc player as illustrated below in either case:

- When a graphic equalizer does not have the remote control terminals.
- When a graphic equalizer is not used in combination with these components.

Compact disc player

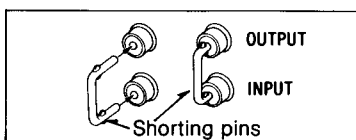


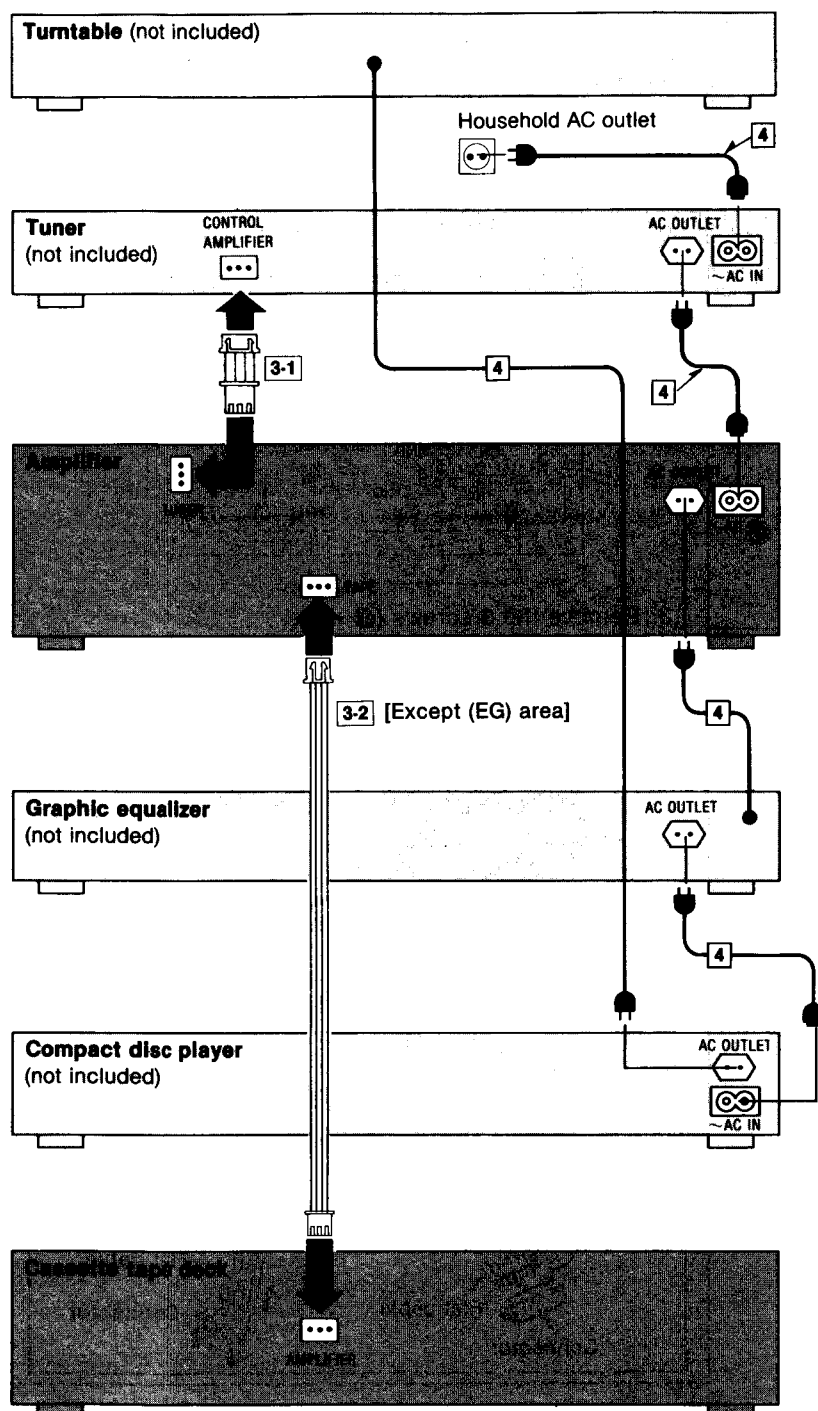
“GND” terminal of the amplifier

This terminal is for use with a turntable which has a ground wire.

“EXT” terminals of the amplifier

When these terminals are not in use, be sure to insert the shorting pins (included).





3 Connect the flat cables.

3-1 Connect the 3-core flat cable
(included with the tuner).

3-2 Connect the 3-core flat cable
(included with the cassette tape deck).

4 Connect the AC power supply cords.

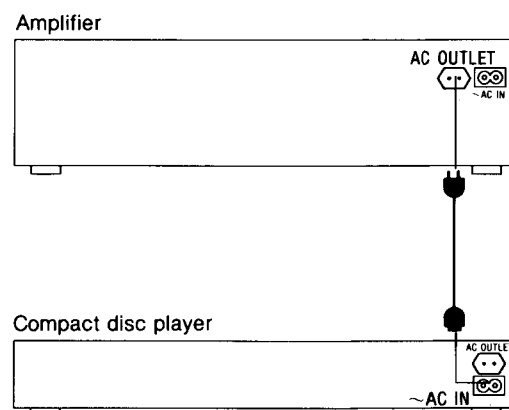
Connect this cord only after all other cables and cords have been connected.

Notes:

1. The configuration of the AC outlet and AC power supply cord differs according to area.
2. Connect the AC power supply cord included with a compact disc player to the AC outlet of the amplifier as illustrated below in either case:

- When a graphic equalizer does not have the AC outlet.

- When a graphic equalizer is not used in combination with these components.



About the AC outlets of the each components

Do not connect video-related equipment (such as a TV, etc.) to the AC outlets of these components. (These outlets are especially for audio equipment.) Also do not exceed the indicated power ratings when connecting to these outlets.

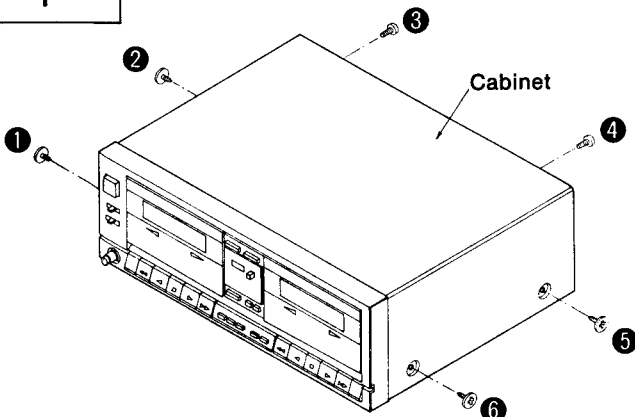
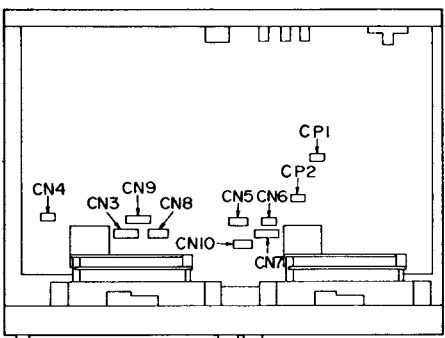
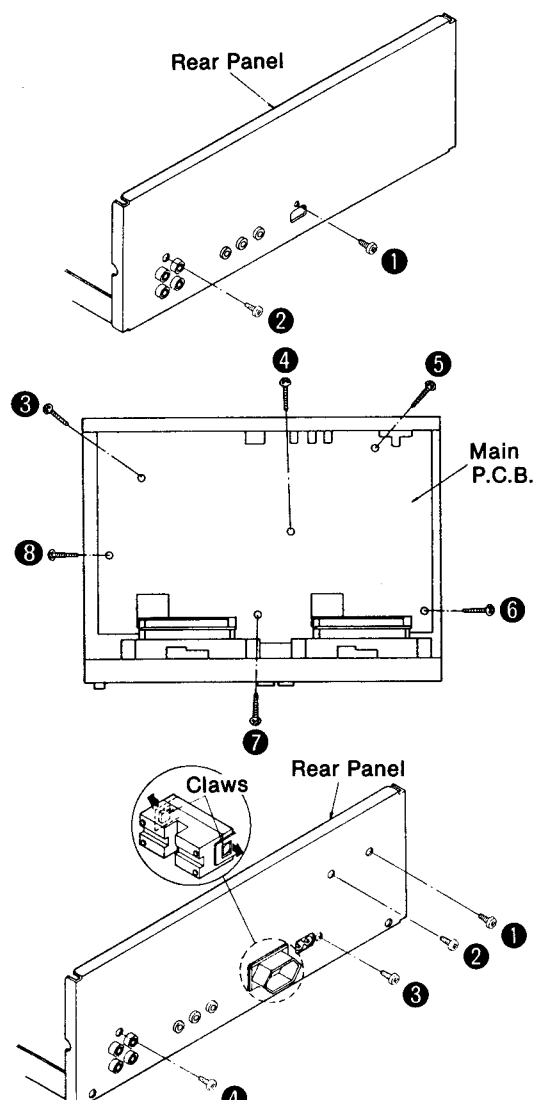
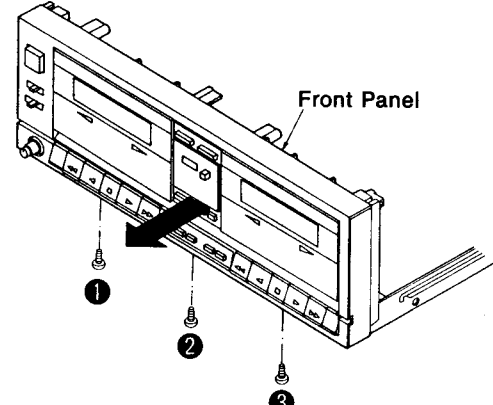
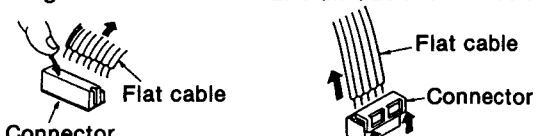
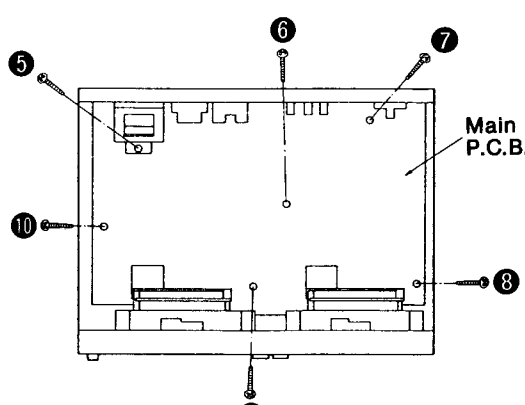
- **"SWITCHED" outlet** (For tuner)

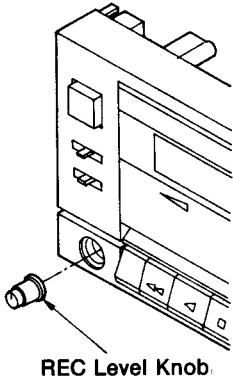
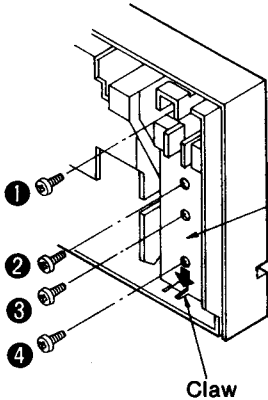
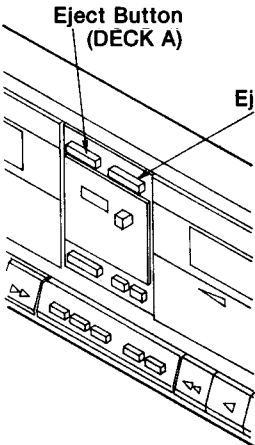
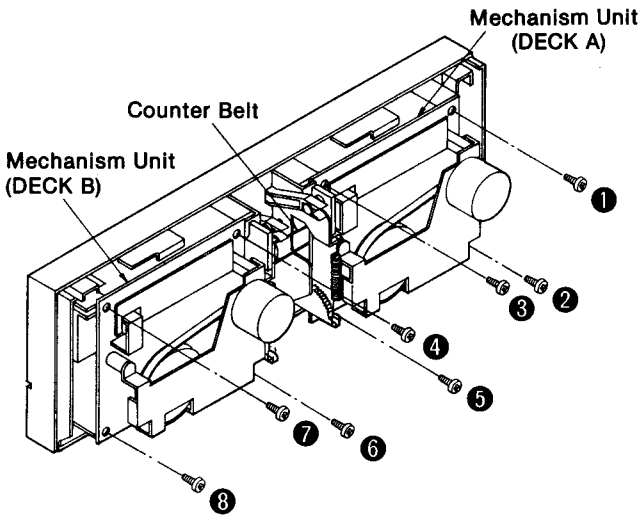
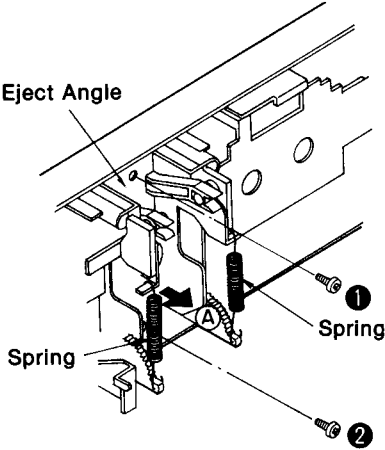
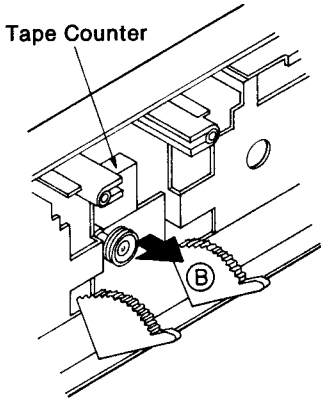
Power is controlled by the power switch.

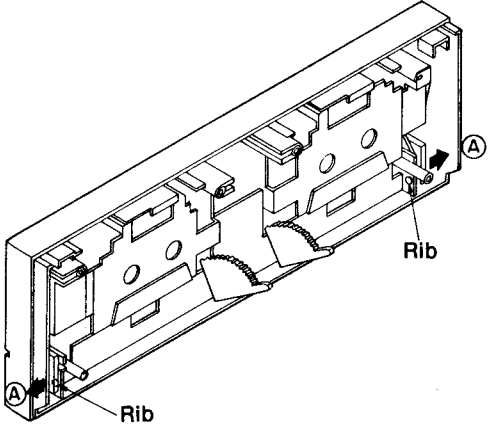
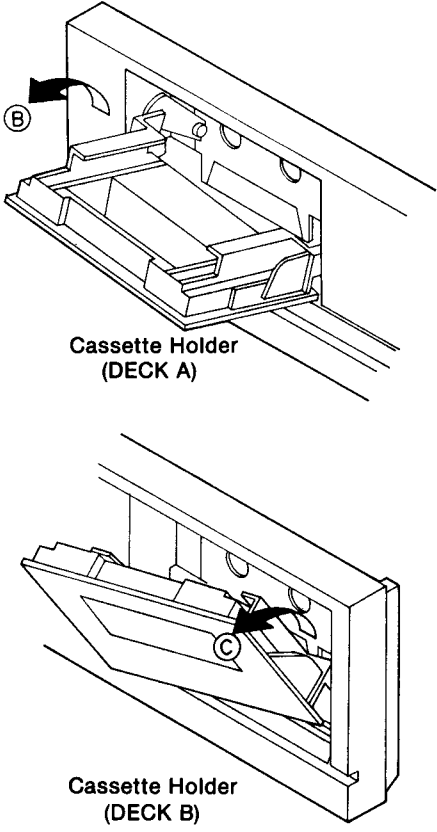
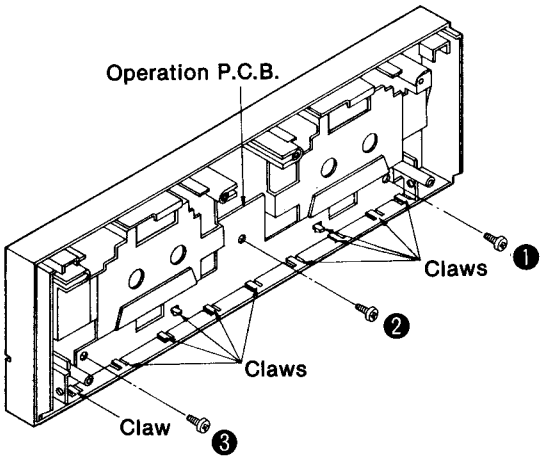
- **"UNSWITCHED" outlets** (For amplifier, compact disc player, graphic equalizer)

Power is always available, regardless of power switch setting.

DISASSEMBLY INSTRUCTIONS

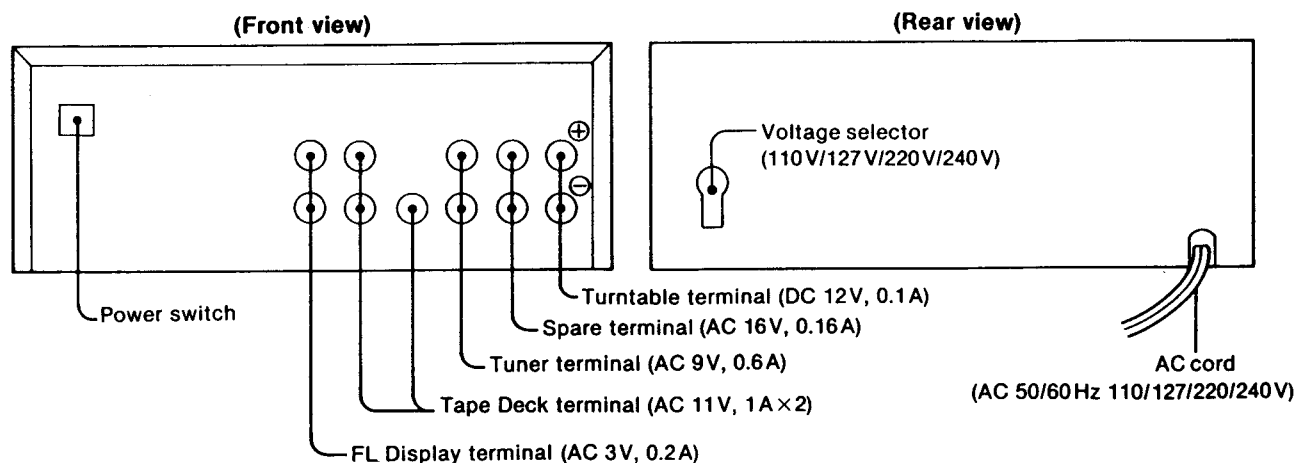
Ref. No. 1	Removal of the Cabinet	Ref. No. 2	Removal of the Front Panel
Procedure 1	Remove the 6 screws (①~⑥).	Procedure 1→2	- Remove the 8 flat cables (CN3, CN4, CN5, CN6, CN7, CN8, CN9, CN10). - Remove the 2 connections (CP1, CP2).
			
Ref. No. 3	Removal of the Main P.C.B.		
Procedure 1→2→3	[E, E5, EB, GC, GN] areas. Remove the 8 screws (①~⑧).		
			 How to remove the flat cable • Pull out the flat cable while 1. Lift the connector. pressing the connector. 2. Pull out the flat cable.  [EG] area. - Remove the 10 screws (①~⑩). - Release the 2 claws of the AC OUT LET cover. 

Ref. No. 5	Removal of the Power/Timer/Reverse Mode/REC Level P.C.B.	2. Remove the 4 screws (①~④). 3. Release the 1 claw.
Procedure 1→2→5	1. Remove the rec level knob.	
 •Wind cellophane tape around the knob and pull it the direction of the arrow.	 REC Level Knob	 Power Switch P.C.B. Claw
Ref. No. 6	Removal of the Mechanism Units	•Removal of the Mechanism Unit (DECK B) 1. Push the eject button. 2. Remove the 4 screws (⑤~⑧).
Procedure 1→2→6	•Removal of the Mechanism Unit (DECK A) 1. Push the eject button. 2. Remove the counter belt. 3. Remove the 4 screws (①~④).	
 Eject Button (DECK A) Eject Button (DECK B)		 Mechanism Unit (DECK A) Counter Belt Mechanism Unit (DECK B)
Ref. No. 7	Removal of the Eject Angle and Tape Counter	3. Remove the eject angle in the direction of the arrow ①. 4. Remove the tape counter in the direction of the arrow ②.
Procedure 1→2→6→7	1. Remove the spring. 2. Remove the 2 screws (①, ②).	
 Eject Angle Spring Spring		 Tape Counter

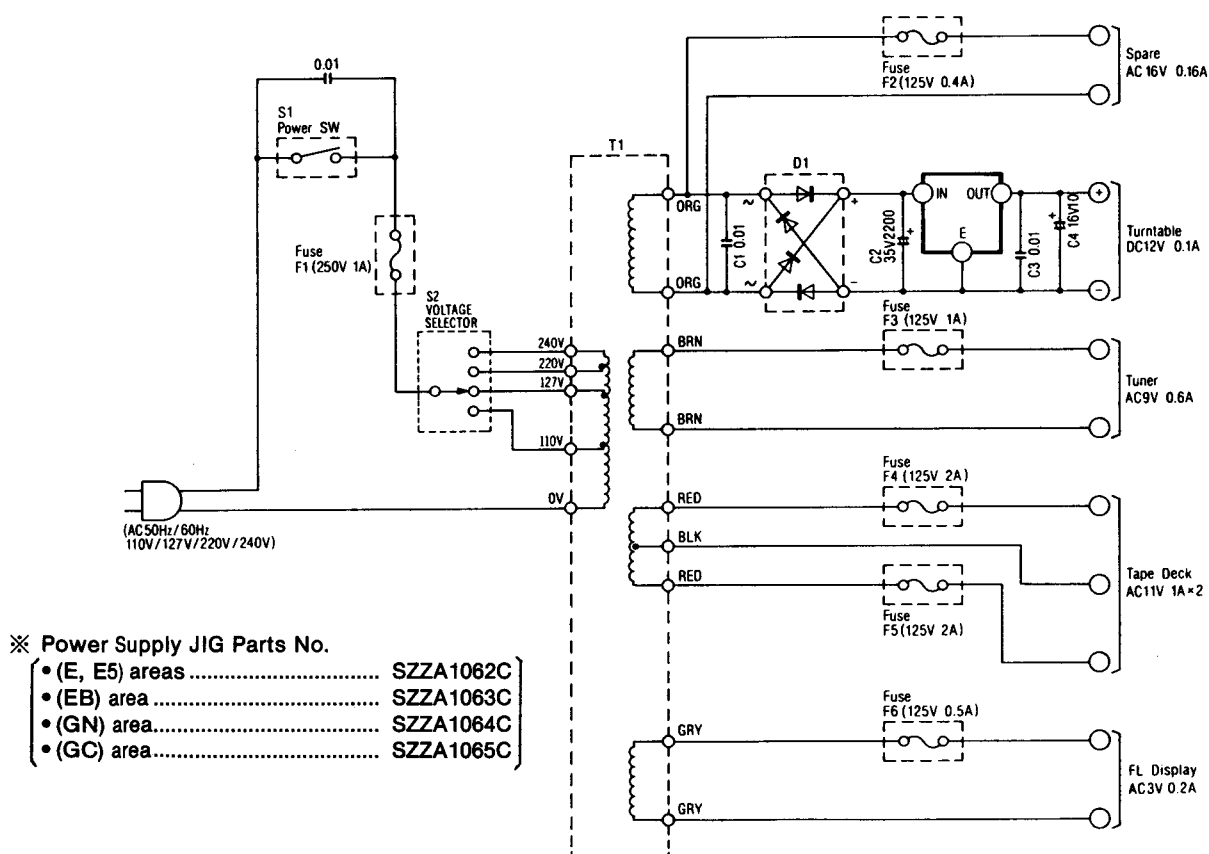
Ref. No. 8	Removal of the Cassette Holder	2. Remove the cassette holder (DECK A) in the direction of the arrow ⑥. 3. Remove the cassette holder (DECK B) in the direction of the arrow ⑦.
Procedure 1→2→6 →7→8	1. Remove the ribs in the direction of the arrow ⑤.	
		
Ref. No. 9	Removal of the Operation P.C.B.	
Procedure 8→9	1. Remove the 3 screws (①~③). 2. Release the 11 claws.	
		

■ INFORMATION ON POWER SUPPLY JIG

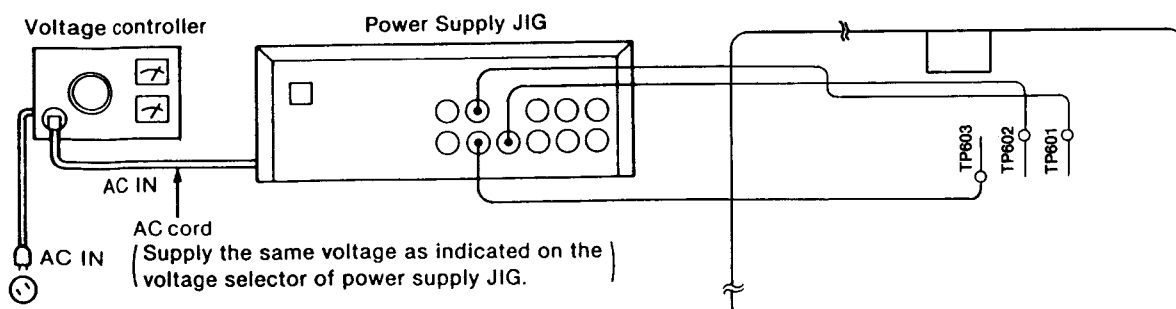
• LOCATION



• SCHEMATIC DIAGRAM (Reference)



• HOW TO CONNECT



MEASUREMENT AND ADJUSTMENT METHODES

Measurement Condition

- Rec. level control; Maximum
- Timer switch; Off
- Reverse-mode selector switch; $\longleftrightarrow$
- Edit-recording tape-speed selector; X1

- Dolby NR switch; Off
- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature $20 \pm 5^{\circ}\text{C}$ ($68 \pm 9^{\circ}\text{F}$)

Measuring instrument

- EVM (Electronic Voltmeter)
- Oscilloscope
- Digital frequency counter
- AF oscillator

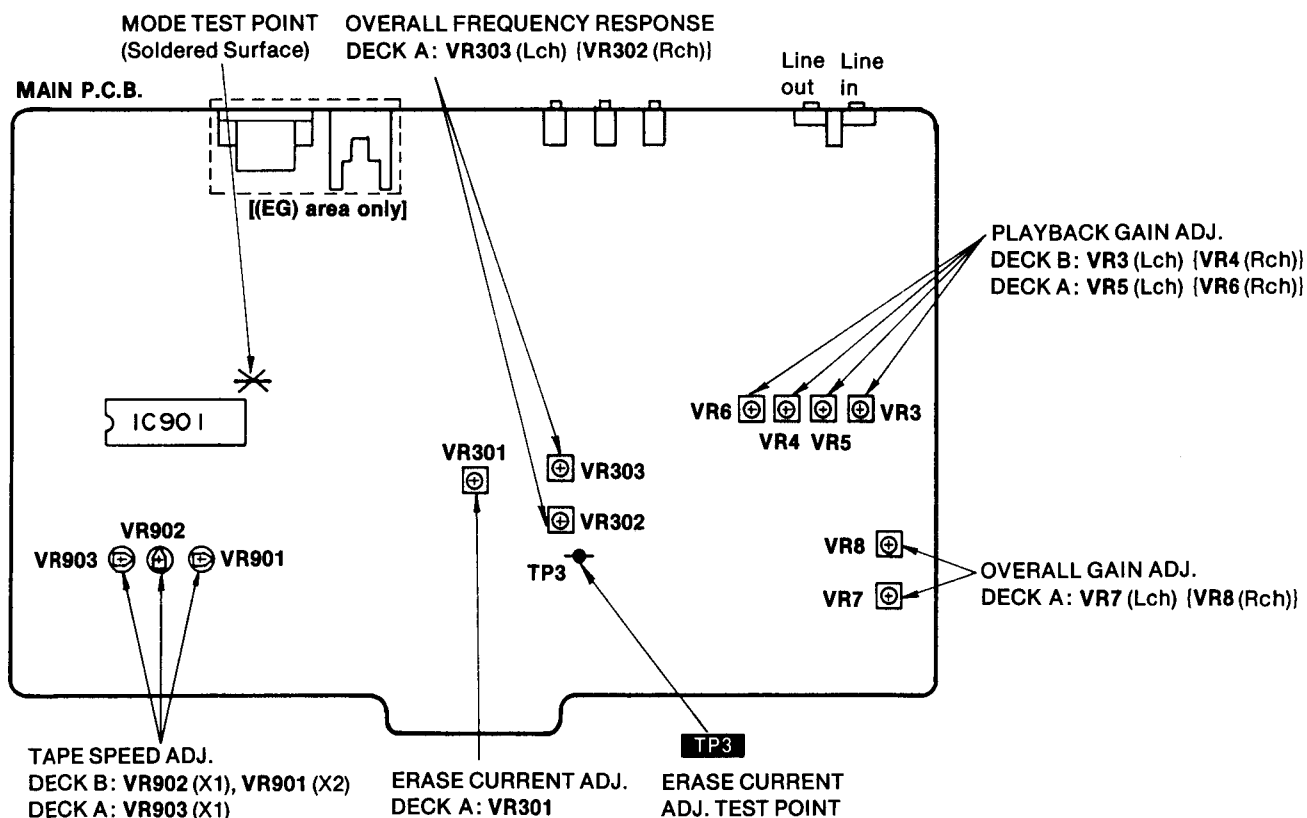
- ATT (Attenuator)
- DC voltmeter
- Resistor (600Ω)

Test tape

- Head azimuth adjustment (8kHz, -20dB); QZZCFM
- Tape speed adjustment (3kHz, -10dB); QZZCWAT
- Playback frequency response (315Hz, 12.5kHz, 10kHz, 8kHz, 4kHz, 1kHz, 250Hz, 125Hz, 63Hz, -20dB); QZZCFM

- Playback gain adjustment (315Hz, 0dB); QZZCFM
- Overall frequency response, Overall gain adjustment
Normal reference blank tape ; QZZCRA
CrO₂ reference blank tape; QZZCRX
Metal reference blank tape; QZZCRZ

Adjustment Points



HEAD AZIMUTH ADJUSTMENT (DECK A/B)

1. Playback the azimuth adjustment portion (8kHz, -20dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-CH and R-CH are maximized and the lissajous waveform, as illustrated, approaches 0 degrees.

Note: If L-CH and R-CH are not maximized at the same point, adjust to the point where the levels of each channel are maximized and equal.

2. Perform the same adjustment in the play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

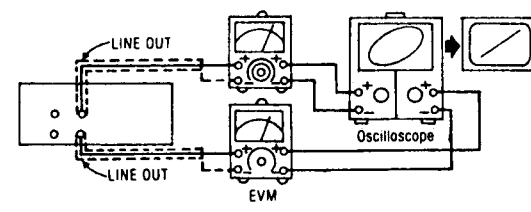


Fig. 1

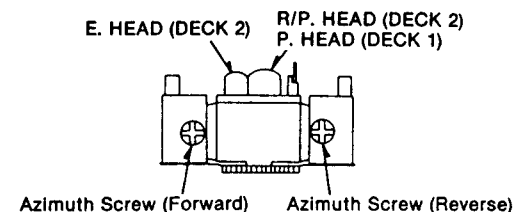


Fig. 2

TAPE SPEED ADJUSTMENT (DECK A/B)**Normal speed**

1. Shift the edit-recording tape-speed selector to "X1".
2. Playback the middle portion of the test tape (QZZCWAT).
3. Adjust Deck B=VR902 and Deck A=VR903 so that the output is within the standard value.

High speed

4. Shift the edit-recording tape speed switch to "X2".
5. Playback the middle portion of the test tape (QZZCWAT).
6. Adjust Deck B=VR901 so that the output is within the standard value.

Note: The Normal speed adjustment must be done before the High speed adjustment.

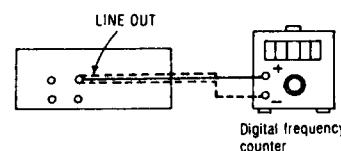


Fig. 3

(DECK A) Standard value: 3000 ± 15 Hz [Normal (X1)], 6000 ± 600 Hz [High (X2), only confirmation]
(DECK B) Standard value: 3000 ± 15 Hz [Normal (X1)], 6000 ± 30 Hz [High (X2)]

PLAYBACK GAIN ADJUSTMENT (DECK A/B)

1. Playback the gain adjusted portion (315Hz, 0dB) of the test tape (QZZCFM).
2. Adjust Deck B=VR3 (L-CH) [VR4 (R-CH)] and Deck A=VR5 (L-CH) [VR6 (R-CH)] so that the output is within the standard value.

Standard value: 0.4V ± 0.5dB

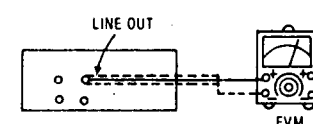


Fig. 4

PLAYBACK FREQUENCY RESPONSE (DECK A/B)

1. Playback the frequency response portion (315Hz, 12.5kHz~63Hz, -20dB) of the test tape (QZZCFM).
2. Assure that the frequency response is within the range shown in Fig. 6 for both L-CH and R-CH.

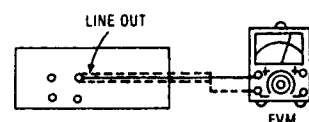


Fig. 5

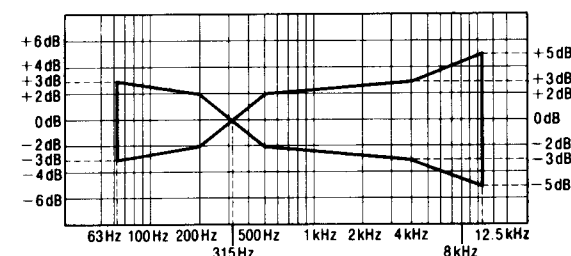


Fig. 6

ERASE CURRENT ADJUSTMENT (DECK A)

1. Insert the Metal blank test tape (QZZCRZ) and set the unit to the Record Pause mode.
2. Adjust VR301 so that the output between TP3 and GND is within the standard value.

Standard value: 190 ± 5mA (Metal)...EVM Reading: 190 ± 5mV

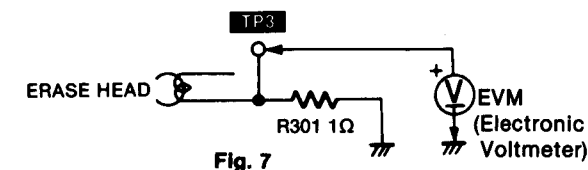


Fig. 7

OVERALL FREQUENCY RESPONSE (DECK A)

1. Insert the Normal blank test tape (QZZCRA) and set the unit to the Record Pause mode.
2. Apply a reference input signal (1kHz, -24dB) through an attenuator.
3. Attenuate the signal by 20dB and adjust the frequency from 50Hz~10kHz.
4. Record the frequency sweep.
5. Playback the recorded signal and assure that it is within the range shown in Fig. 8 in comparison to the reference frequency (1kHz).
6. If it is not within the standard range, adjust VR303 (L-CH) and VR302 (R-CH) so that the frequency level is within the standard range.
 - Level up in high frequency rangeIncrease the bias current.
 - Level down in high frequency range ...Decrease the bias current.
7. Repeat steps 2~6 above using the CrO₂ tape (QZZCRX) and the Metal tape (QZZCRZ) increasing the frequency range to 12.5kHz (50Hz~12.5kHz).
8. Assure that the level is within the range shown in Fig. 9.

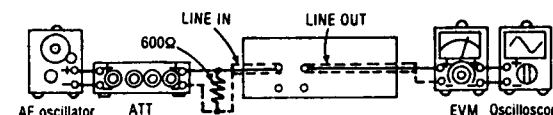


Fig. 10

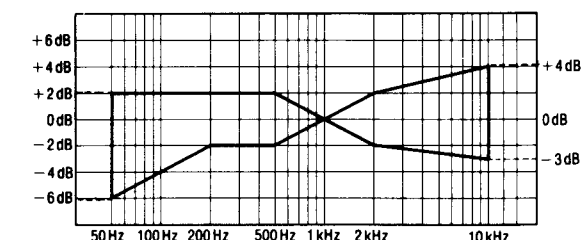
Normal Overall frequency response chart (NR OUT)

Fig. 8

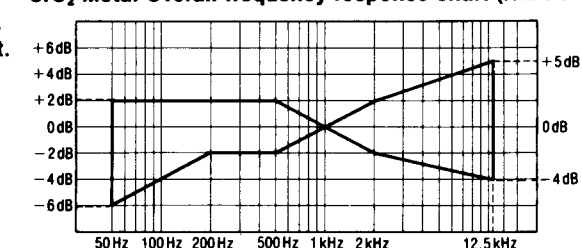
CrO₂ Metal Overall frequency response chart (NR OUT)

Fig. 9

OVERALL GAIN ADJUSTMENT (DECK A)

1. Insert the Normal blank test tape (QZZCRA) and set the unit to the Record pause mode.
2. Apply a reference input signal (1kHz, -24dB). Attenuate the output so that its level becomes 0.4V.
3. Record this input signal.
4. Playback the signal recorded in step 3 above, and assure that the output is within the standard value.
5. If it is not within the standard value, adjust VR7 (L-CH) and VR8 (R-CH).
6. Repeat the step 2~5 above until the output is within the standard value.

Standard value: 0.4V ± 0.5dB

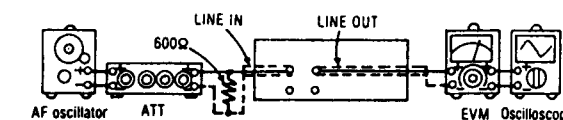


Fig. 11

■ TERMINAL FUNCTION OF IC's

• IC901 (M50746-166SP): MICROCOMPUTER

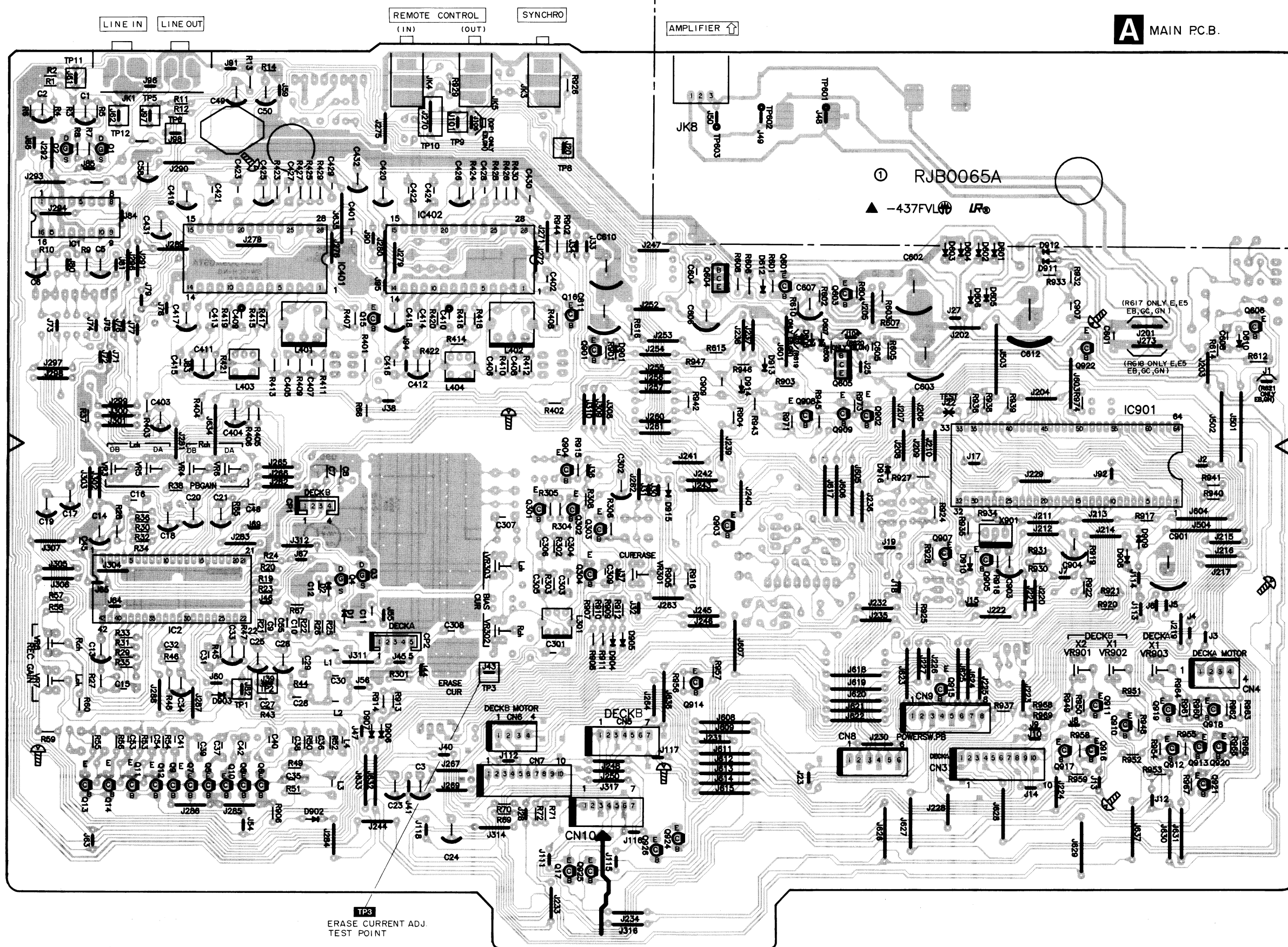
Pin No.	Mark	I/O Division	Function
1	Vcc	I	Power supply terminal
2	AV _{SS}	—	• Connected to V _{SS}
3	V _{REF}	I	Standard voltage terminal (5V)
4	CRM	O	CUE/REV mute signal • "L" level in muting is off mode. • "H" level in muting is on mode.
5	DIR 2	O	Direction indicator signal of deck A • "L" level with forward mode. • "OPEN" with reverse mode.
6	MMT	O	Mater mute control signal • "L" level in muting is off mode. • "OPEN" when muting is on mode.
7	LMT	O	Line out mute signal
8	RMT 2	O	Rec. amp. mute signal of deck A • "L" level in mute is off mode. • "H" level in mute is on mode.
9	DMT	O	Line out mute signal (Not used) • "L" level in muting is off mode. • "OPEN" when muting is on mode.
10	REV 2	—	Connected to GND
11	REV 1	—	Connected to GND
12	KEY 2	I	Key switch scan (DECK A: STOP, F.F., REW, F. PLAY, R. PLAY, REC., PAUSE, S. START, X2, X1, DOLBY C, B)
13	KEY 1	I	Key switch scan (DECK B: STOP, F.F., REW, F. PLAY, R. PLAY)
14	PLAY 2	O	Deck A Playback LED display/CUE, REV, LED display
15	PLAY 1	O	Deck B Playback LED display/CUE, REV, LED display
16	ARM 2	I	Auto Rec. mute terminal. "L"=KEY ON, "H"=KEY OFF
17	REC 1	I	Not used.
18	REC 2	O	Deck A Rec. mode LED display • "L" level in Deck A Rec. mode. • "H" level in other mode.
19	REM 2	O	Deck A Remote control LED display • "L" level in LED on mode. • "H" level in LED off mode.
20	REM 1	O	Deck B Remote control LED display • "L" level when LED is on mode. • "H" level when LED is off mode.
21	RENA	O	B side select signal to CD player, used during CD synchro editing mode.
22	SYNC	I	Synchro start signal input from CD player
23	RCS	I	Remote control serial data
24	TREC	I	Timer rec terminal
25	TPLAY	I	Timer play terminal
26	POF	I	Primary AC power detection terminal
27	CNV _{SS}	—	Connected to V _{SS}
28	RESET	I	Reset terminal • "L" level when reset is on mode. • "L" → "H" level when reset is off mode.
29	XIN	I	Clock OSC terminal
30	XOUT	O	
31	φ	I	Not used, open.
32	V _{SS}	—	Connected to GND
33	TEST	—	Test terminal
34	PWIN	I	Power ON/OFF switch input • "L" level with power ON • "H" level with power OFF
35	REEL 1	I	Deck B Rotation pulse signal of reel table

Pin No.	Mark	I/O Division	Function
36	REEL 2	I	Deck A Rotation pulse signal of reel table
37	RINH 2	I	Deck A Reverse Rec. Inh. switch select terminal
38	FINH 2	I	Deck A Forward Rec. Inh. switch select terminal
39	MODE 1	I	Deck B mechanism mode switch select terminal
40	HALF 1	I	Deck B cassette half detection switch • "L" level in half detection switch is on mode. • "H" level in half detection switch is off mode.
41	MPX	O	MPX filter IN/OUT control signal • "OPEN" with Dolby NR "IN" • "L" level with Dolby NR "OUT"
42	T ₂	O	Deck A play select signal • "L" level with PLAY/CUE/REVIEW mode. • "H" level with any other mode.
43	X ₂	O	X2 Speed LED display • "L" level when LED is on mode. • "OPEN" when other mode.
44	X ₁	O	X1 Speed LED display • "L" level when LED is on mode. • "OPEN" when other mode.
45	T/S	I	Connected to GND
46	C	O	Dolby C LED display • "L" level when LED is on mode. • "OPEN" when other mode. (Not used, open.)
47	B	O	Dolby B LED display • "L" level when LED is on mode. • "OPEN" when other mode.
48	ENC	O	Encode/Decode select signal • "L" level in encode mode. • "H" level in decode mode.
49	C/M	I	Deck B reverse mechanism select terminal (Connected to GND)
50	PWOUT	O	Power ON/OFF output terminal
51	SDATA	O	Serial data output (Not used, open)
52	P04 (∞)	O	Not used, open
53	P03 (∞)	O	Not used, open
54	P02 (∞)	O	Not used, open
55	DIR 1	O	Direction indicator signal of deck B
56	FINH 1	I	Deck B Forward Rec. Inh. switch select terminal
57	HSP 1	O	Deck B Motor speed control signal • "L" level when normal speed (X1). • "H" level when high speed (X2).
58	SOL 1	O	Deck B Solenoid control signal • "H" level when solenoid is on mode. • "L" level when solenoid is off mode.
59	MOTOR 1	O	Deck B Motor control signal • "H" level when motor is on mode. • "L" level when motor is off mode.
60	MODE 2	I	Deck A mechanism mode switch select terminal
61	HALF 2	I	Deck A cassette half detection switch • "L" level in half detection switch in on mode. • "H" level in half detection switch in off mode.
62	HSP 2	O	Deck A Motor speed control signal • "H" level when normal speed (X1). • "L" level when high speed (X2).
63	SOL 2	O	Deck A Solenoid control signal • "H" level when solenoid is on mode. • "L" level when solenoid is off mode.
64	MOTOR 2	O	Deck A Motor control signal • "H" level when motor is on mode. • "L" level when motor is off mode.

PRINTED CIRCUIT BOARDS

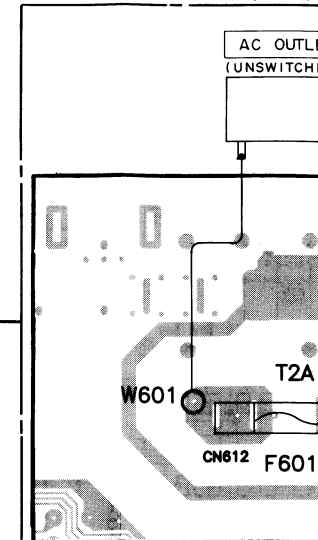
Power Source For [E, E5, EB, GC, GN] areas.

A MAIN P.C.B.



TP3
ERASE CURRENT ADJ.
TEST POINT

Power Source For (EG) area

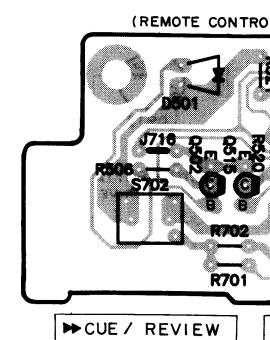


D PO

REC
LEV

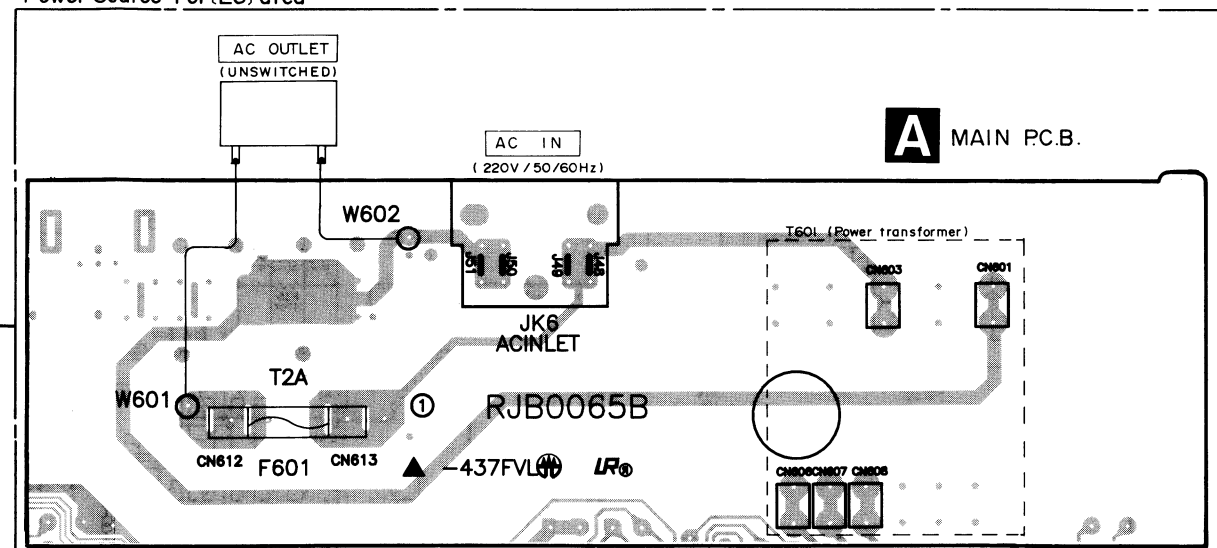
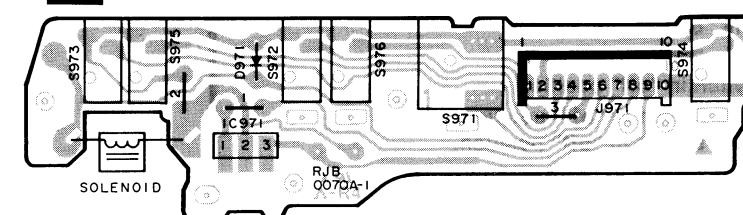
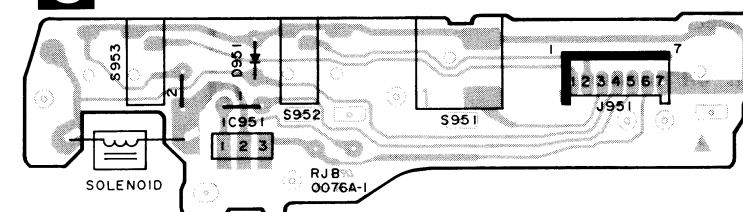
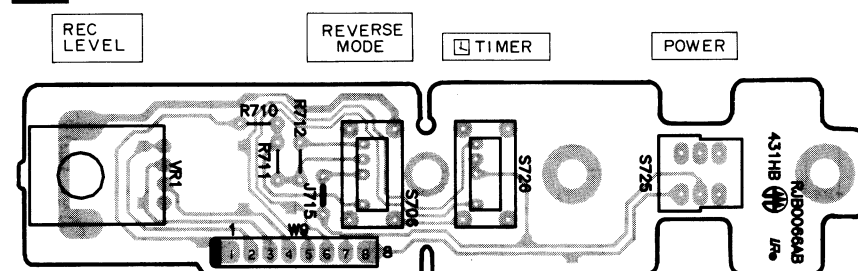
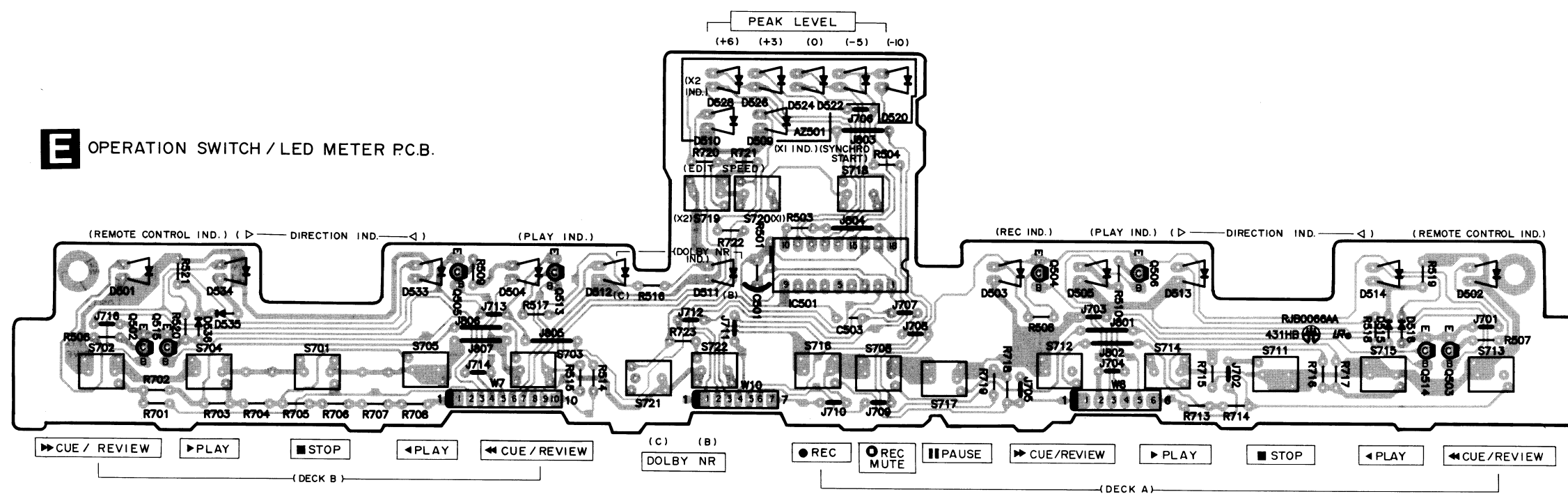


E OPERATION S



► CUE / REVIEW ►

Power Source For(EG) area

**B** MECHANISM (DECK A) P.C.B.**C** MECHANISM (DECK B) P.C.B.**D** POWER SWITCH / REC LEVEL P.C.B.**E** OPERATION SWITCH / LED METER P.C.B.

■ SCHEMATIC DIAGRAM

(Parts list on pages 29~35.)

(This schematic diagram may be modified at any time with development of new technology.)

Notes:

- S701: DECK B Stop switch in “**off**” position.
- S702: DECK B F.F. switch in “**off**” position.
- S703: DECK B Rew. switch in “**off**” position.
- S704: DECK B Playback switch in “**off**” position.
- S705: DECK B Rev. Playback switch in “**off**” position.
- S706: Reverse mode selector switch in “**off**” position.
- S708: DECK A Auto rec. mute switch in “**off**” position.
- S711: DECK A Stop switch in “**off**” position.
- S712: DECK A F.F. switch in “**off**” position.
- S713: DECK A Rew. switch in “**off**” position.
- S714: DECK A For. Playback switch in “**off**” position.
- S715: DECK A Rev. Playback switch in “**off**” position.
- S716: DECK A Record switch in “**off**” position.
- S717: DECK A Pause switch in “**off**” position.
- S718: Synchro-start switch in “**off**” position.
- S719: Editing tape speed selector (X2) in “**off**” position.
- S720: Editing tape speed selector (X1) in “**off**” position.
- S721: Dolby NR C switch in “**off**” position.
- S722: Dolby NR B switch in “**off**” position.
- S725: Power switch in “**on**” position.
- S726: Timer switch in “**off**” position.
- S951: DECK B Mode switch in “**off**” position.
- S952: DECK B Cassette half detection switch in “**off**” position.
- S953: DECK B ATS (CrO₂) switch in “**off**” position.
- S971: DECK A Mode switch in “**off**” position.
- S972: DECK A Cassette half detection switch in “**off**” position.
- S973: DECK A Rev. Rec Inhibit switch in “**off**” position.
- S974: DECK A For. Rec Inhibit switch in “**off**” position.
- S975: DECK A ATS (CrO₂) switch in “**off**” position.
- S976: DECK A ATS (Metal) switch in “**off**” position.
- Resistance are in ohms (Ω), 1/4 watt unless specified otherwise.

1 K=1,000 (Ω), 1 M=1,000 k (Ω)

- Capacity are in micro-farads (μF) unless specified otherwise.
 - All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.
- ().....Voltage values at record mode.

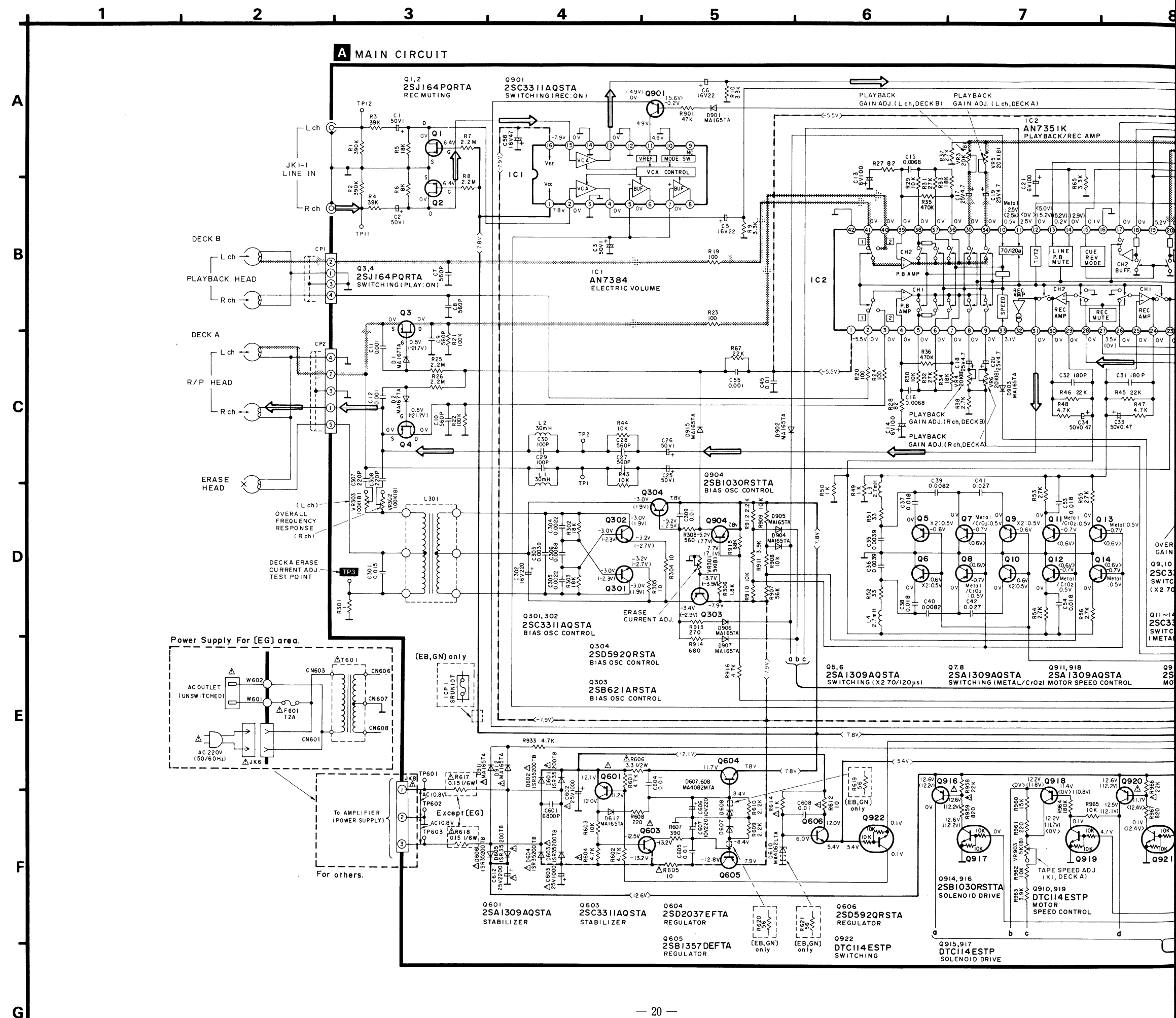
For measurement us EVM.

- **Important safety notice**
Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

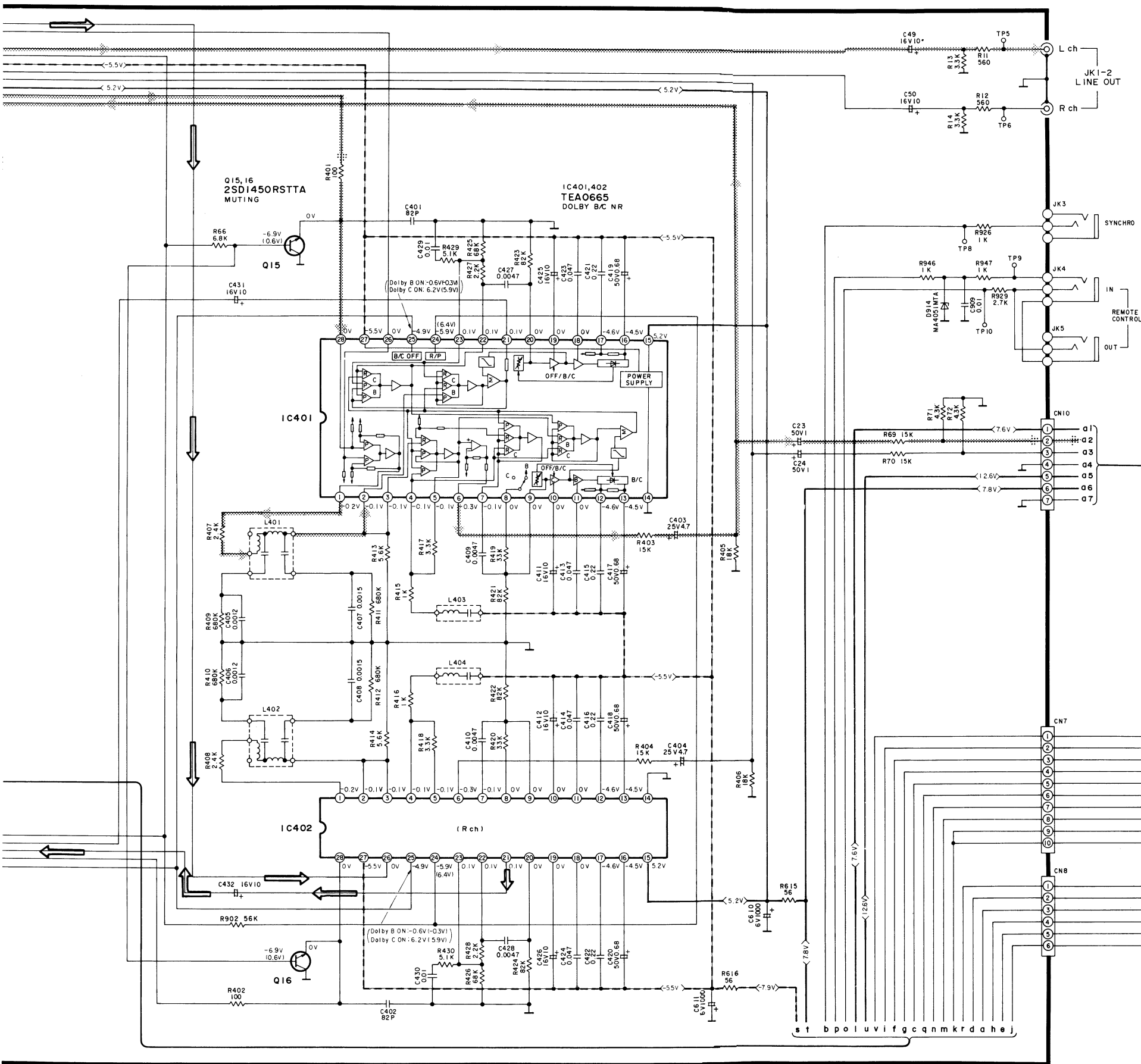
- ( $< +B >$ ) indicates $+B$ (bias).
- ( $< -B >$ ) indicates $-B$ (bias).
- () indicates the flow of the playback signal.
- () indicates the flow of the record signal.

*** Caution!**

- IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
- * Cover the parts boxes made of plastics with aluminum foil.
 - * Ground the soldering iron.
 - * Put a conductive mat on the work table.
 - * Do not touch the legs of IC or LSI with the fingers directly.

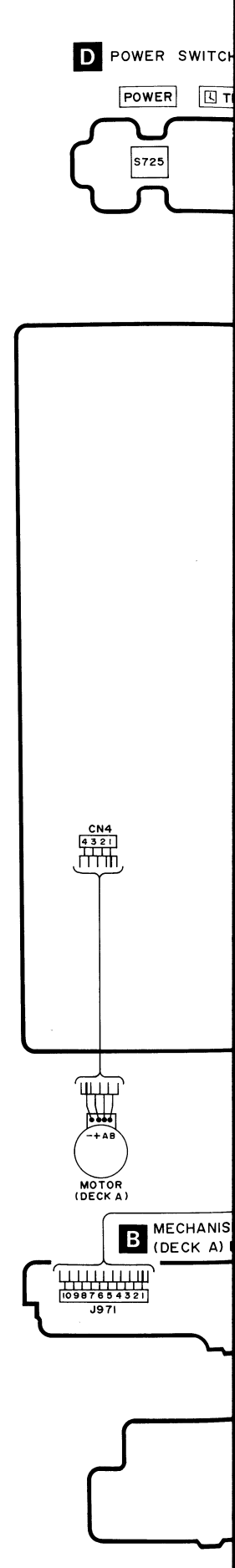
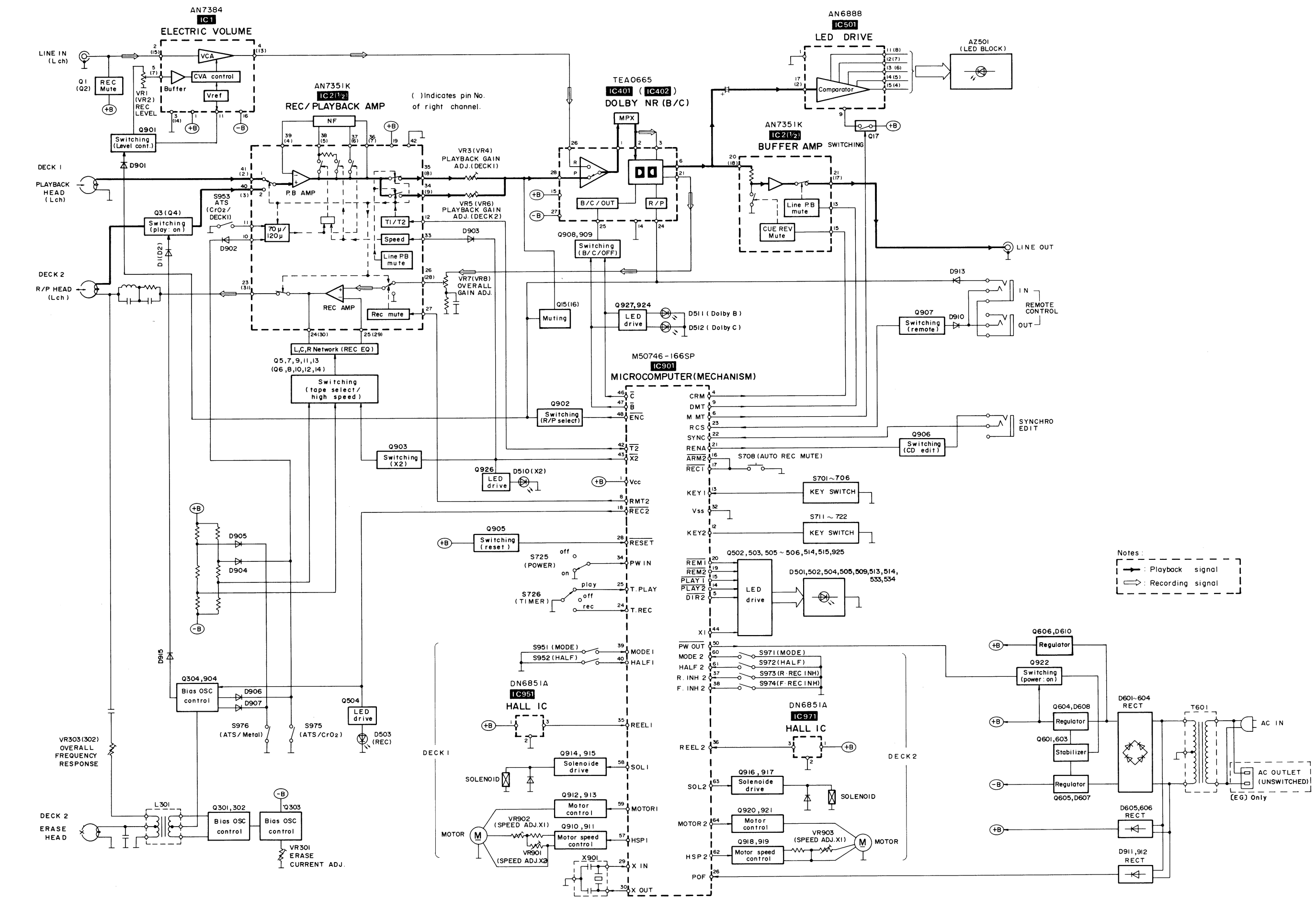




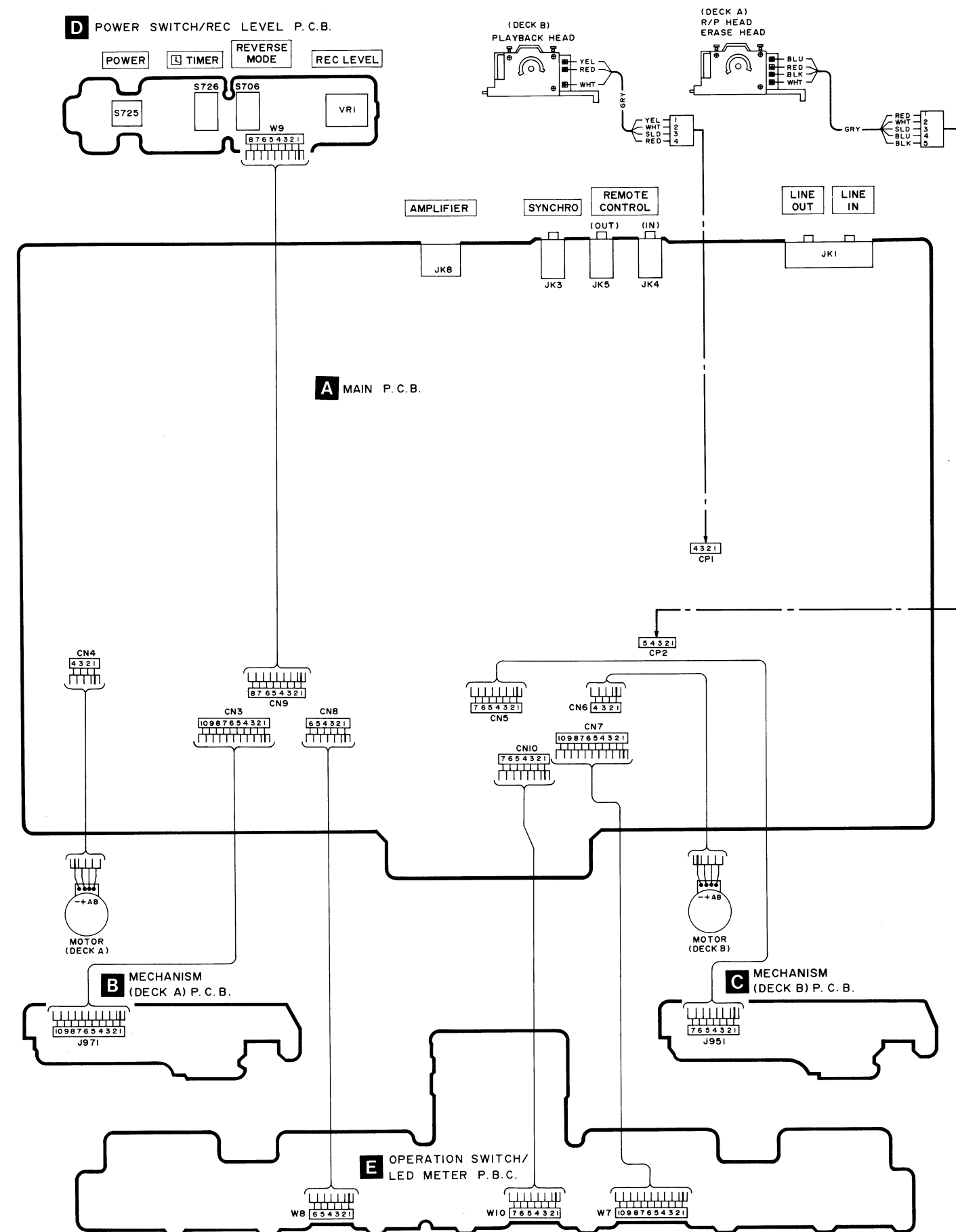
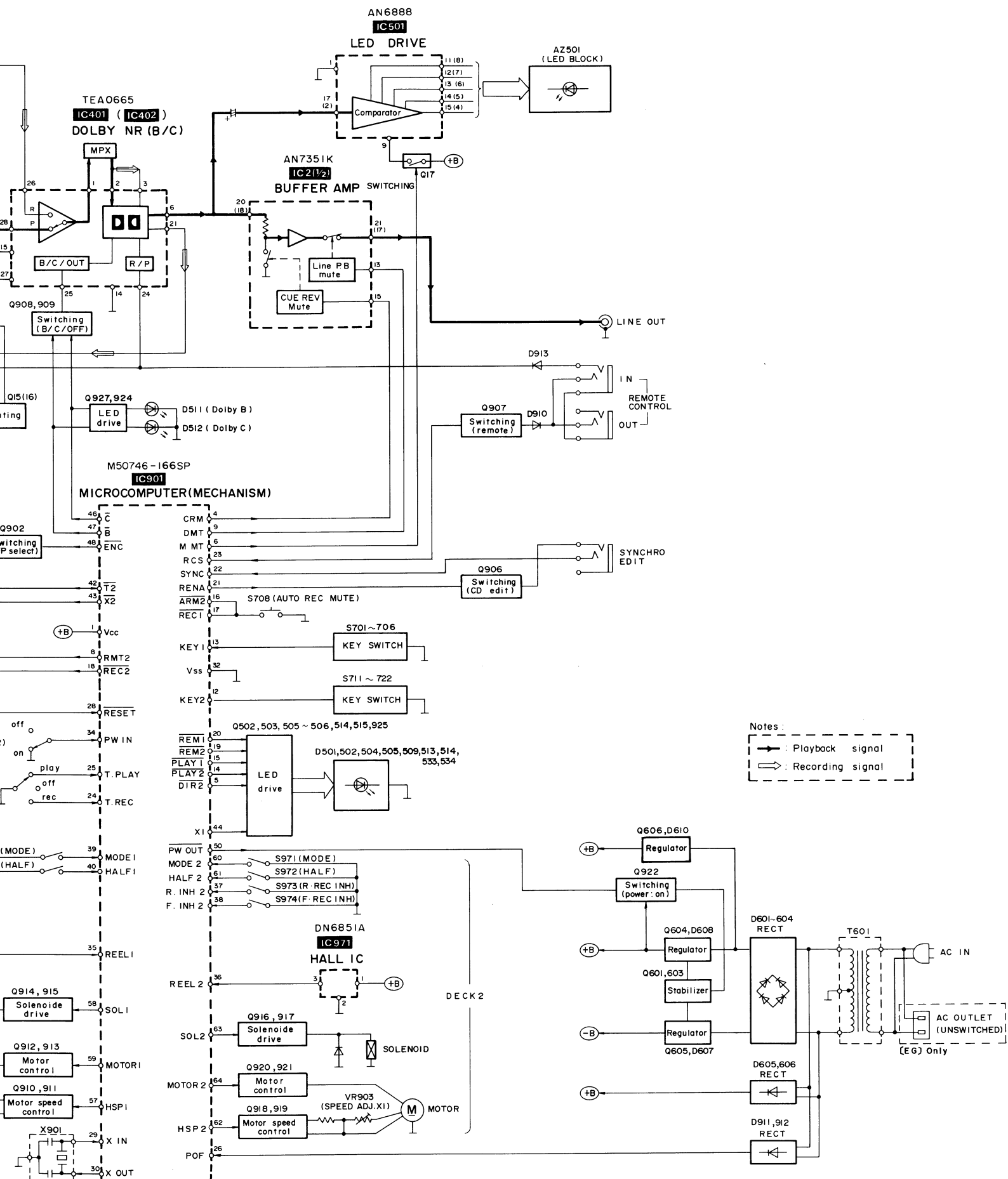


BLOCK DIAGRAM

WIRING CO



WIRING CONNECTION DIAGRAM



RESISTORS & CAPACITORS

Notes : * Important safety notice :

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

Numbering System For Resistors

Example:

ERD	25	F	J	102
Type	Wattage (1/4W)	Shape	Tolerance	Value (1K Ω)
ERX	2	AN	J	471
Type	Wattage (2W)	Shape	Tolerance	Value (470 Ω)

Numbering System For Capacitors

Example:

ECKD	1H	102	Z	F
Type	Voltage (50V)	Value (0.001 μ F)	Tolerance	Unique
ECEA	50	M		330
Type	Voltage (50V)	Characteristics		Value (33 μ F)

● P=Pico-farads (pF), U=microfarads (μ F).

● Resistance values are in ohms (Ω), unless specified otherwise, 1K = 1,000 Ω , 1M = 1,000k Ω

Resistor Type	Wattage	Tolerance
ERD : Carbon	10 : 1/8W 12 : 1/2W	J : $\pm 5\%$
ERG : Metal Oxide	14 : 1/4W 25 : 1/4W	F : $\pm 1\%$
ERQ : Fuse Type Metal	1A : 1W 18 : 1/8W	G : $\pm 2\%$
ERX : Metal Film	S2 : 1/4W S1 : 1/2W	J : $\pm 5\%$
ERD L : Carbon (chip)	2F : 1/4W 50 : 1/2W	K : $\pm 10\%$
ERO K : Metal Film (chip)	2A : 2W 3A : 3W	M : $\pm 20\%$
ERC : Solid	6G : 1/10W 8G : 1/8W	
ERF : Incombustible Box-Shaped		
ERM : Wire-Wound		
RRJ : Chip Resistor		
ERJ : Chip Resistor		

Capacitor Type	Voltage	Tolerance
ECE : Electrolytic	0J : 6.3V 1A : 10V	K : $\pm 10\%$
ECCD : Ceramic	1C : 16V 1E : 25V	M : $\pm 20\%$
ECKD : Ceramic Capacitor	1H : 50V 1V : 35V	Z : +80 % -20
ECQM : Polyester	50 : 50V 05 : 50V	J : $\pm 5\%$
ECQP : Polypropylene	2H : 500V 2A : 100V	G : $\pm 2\%$
ECG : Ceramic	1 : 100V 1J : 63V	F : $\pm 1\%$
ECEA N : Non Polar Electrolytic	KC : 400V AC	C : ± 0.25 pF
QCU : Ceramic (Chip Type)	KC : 125V AC (UL)	D : ± 0.5 pF
ECUX : Ceramic (Chip Type)		
ECF : Semiconductor		
EECW : Liquid electrolyte double layer capacitor		

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS		R30	ERDS2TJ103T	C. RESISTOR 1/4W 10K	
				R31	ERDS2TJ273T	C. RESISTOR 1/4W 27K	
				R32	ERDS2TJ273T	C. RESISTOR 1/4W 27K	
R1	ERDS2TJ394T	C. RESISTOR 1/4W 390K		R33	ERDS2TJ183T	C. RESISTOR 1/4W 18K	
R2	ERDS2TJ394T	C. RESISTOR 1/4W 390K		R34	ERDS2TJ183T	C. RESISTOR 1/4W 18K	
R3	ERDS2TJ393T	C. RESISTOR 1/4W 39K		R35	ERDS2TJ474T	C. RESISTOR 1/4W 470K	
R4	ERDS2TJ393T	C. RESISTOR 1/4W 39K		R36	ERDS2TJ474T	C. RESISTOR 1/4W 470K	
R5	ERDS2TJ183T	C. RESISTOR 1/4W 18K		R37	ERDS2TJ272T	C. RESISTOR 1/4W 2.7K	
R6	ERDS2TJ183T	C. RESISTOR 1/4W 18K		R38	ERDS2TJ272T	C. RESISTOR 1/4W 2.7K	
R7	ERDS2TJ225	C. RESISTOR 1/4W 2.2M		R43	ERDS2TJ103T	C. RESISTOR 1/4W 10K	
R8	ERDS2TJ225	C. RESISTOR 1/4W 2.2M		R44	ERDS2TJ103T	C. RESISTOR 1/4W 10K	
R9	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K		R45	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R10	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K		R46	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R11	ERDS2TJ561T	C. RESISTOR 1/4W 560		R47	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K	
R12	ERDS2TJ561T	C. RESISTOR 1/4W 560		R48	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K	
R13	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K		R49	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R14	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K		R50	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R19	ERDS2TJ101T	C. RESISTOR 1/4W 100		R51	ERDS2TJ330T	C. RESISTOR 1/4W 33	
R20	ERDS2TJ101T	C. RESISTOR 1/4W 100		R52	ERDS2TJ330T	C. RESISTOR 1/4W 33	
R21	ERDS2TJ104T	C. RESISTOR 1/4W 100K		R53	ERDS2TJ272T	C. RESISTOR 1/4W 2.7K	
R22	ERDS2TJ104T	C. RESISTOR 1/4W 100K		R54	ERDS2TJ272T	C. RESISTOR 1/4W 2.7K	
R23	ERDS2TJ101T	C. RESISTOR 1/4W 100		R55	ERDS2TJ272T	C. RESISTOR 1/4W 2.7K	
R24	ERDS2TJ101T	C. RESISTOR 1/4W 100		R56	ERDS2TJ272T	C. RESISTOR 1/4W 2.7K	
R25	ERDS2TJ225	C. RESISTOR 1/4W 2.2M		R57	ERDS2TJ103T	C. RESISTOR 1/4W 10K	
R26	ERDS2TJ225	C. RESISTOR 1/4W 2.2M		R58	ERDS2TJ103T	C. RESISTOR 1/4W 10K	
R27	ERDS2TJ820T	C. RESISTOR 1/4W 82		R59	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	
R28	ERDS2TJ820T	C. RESISTOR 1/4W 82		R60	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	
R29	ERDS2TJ103T	C. RESISTOR 1/4W 10K		R65	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	

Ref. No.	Part No.	Part Name & Description	Remarks
R66	ERDS2TJ682T	C. RESISTOR 1/4W 6. 8K	
R67	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R69	ERDS2TJ153T	C. RESISTOR 1/4W 15K	
R70	ERDS2TJ153T	C. RESISTOR 1/4W 15K	
R71	ERDS2TJ432	C. RESISTOR 1/4W 4. 3K	
R72	ERDS2TJ432	C. RESISTOR 1/4W 4. 3K	
R301	ERDS2TJ180T	C. RESISTOR 1/4W 1. 0	
R302	ERDS2TJ183T	C. RESISTOR 1/4W 18K	
R303	ERDS2TJ183T	C. RESISTOR 1/4W 18K	
R304	ERDS2TJ100T	C. RESISTOR 1/4W 10	
R305	ERDS2TJ100T	C. RESISTOR 1/4W 10	
R306	ERDS2TJ182T	C. RESISTOR 1/4W 1. 8K	
R308	ERDS2TJ561T	C. RESISTOR 1/4W 560	
R401	ERDS2TJ101T	C. RESISTOR 1/4W 100	
R402	ERDS2TJ101T	C. RESISTOR 1/4W 100	
R403	ERDS2TJ153T	C. RESISTOR 1/4W 15K	
R404	ERDS2TJ153T	C. RESISTOR 1/4W 15K	
R405	ERDS2TJ183T	C. RESISTOR 1/4W 18K	
R406	ERDS2TJ183T	C. RESISTOR 1/4W 18K	
R407	ERDS2TJ242	C. RESISTOR 1/4W 2. 4K	
R408	ERDS2TJ242	C. RESISTOR 1/4W 2. 4K	
R409	ERDS2TJ684T	C. RESISTOR 1/4W 680K	
R410	ERDS2TJ684T	C. RESISTOR 1/4W 680K	
R411	ERDS2TJ684T	C. RESISTOR 1/4W 680K	
R412	ERDS2TJ684T	C. RESISTOR 1/4W 680K	
R413	ERDS2TJ562T	C. RESISTOR 1/4W 5. 6K	
R414	ERDS2TJ562T	C. RESISTOR 1/4W 5. 6K	
R415	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R416	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R417	ERDS2TJ332T	C. RESISTOR 1/4W 3. 3K	
R418	ERDS2TJ332T	C. RESISTOR 1/4W 3. 3K	
R419	ERDS2TJ333T	C. RESISTOR 1/4W 33K	
R420	ERDS2TJ333T	C. RESISTOR 1/4W 33K	
R421	ERDS2TJ823T	C. RESISTOR 1/4W 82K	
R422	ERDS2TJ823T	C. RESISTOR 1/4W 82K	
R423	ERDS2TJ823T	C. RESISTOR 1/4W 82K	
R424	ERDS2TJ823T	C. RESISTOR 1/4W 82K	
R425	ERDS2TJ683T	C. RESISTOR 1/4W 68K	
R426	ERDS2TJ683T	C. RESISTOR 1/4W 68K	
R427	ERDS2TJ222T	C. RESISTOR 1/4W 2. 2K	
R428	ERDS2TJ222T	C. RESISTOR 1/4W 2. 2K	
R429	ERDS2TJ512	C. RESISTOR 1/4W 5. 1K	
R430	ERDS2TJ512	C. RESISTOR 1/4W 5. 1K	
R501	ERDS2TJ104T	C. RESISTOR 1/4W 100K	
R503	ERDS2TJ562T	C. RESISTOR 1/4W 5. 6K	
R504	ERDS2TJ560	C. RESISTOR 1/4W 56	△
R506	ERDS2TJ391	C. RESISTOR 1/4W 390	
R507	ERDS2TJ391	C. RESISTOR 1/4W 390	
R508	ERDS2TJ391	C. RESISTOR 1/4W 390	
R509	ERDS2TJ391	C. RESISTOR 1/4W 390	
R510	ERDS2TJ391	C. RESISTOR 1/4W 390	
R514	ERDS2TJ391	C. RESISTOR 1/4W 390	

Ref. No.	Part No.	Part Name & Description	Remarks
R515	ERDS2TJ391	C. RESISTOR 1/4W 390	
R516	ERDS2TJ391	C. RESISTOR 1/4W 390	
R517	ERDS2TJ391	C. RESISTOR 1/4W 390	
R518	ERDS2TJ391	C. RESISTOR 1/4W 390	
R519	ERDS2TJ391	C. RESISTOR 1/4W 390	
R520	ERDS2TJ391	C. RESISTOR 1/4W 390	
R521	ERDS2TJ331T	C. RESISTOR 1/4W 330	
R601	ERDS2TJ472T	C. RESISTOR 1/4W 4. 7K	△
R602	ERDS2TJ472T	C. RESISTOR 1/4W 4. 7K	
R603	ERDS2TJ103T	C. RESISTOR 1/4W 10K	
R604	ERDS2TJ472T	C. RESISTOR 1/4W 4. 7K	△
R605	ERDS1FVJ100T	C. RESISTOR 1/2W 10	(E, E5, EG, GC) △
R605	ERD2FCVG100T	C. RESISTOR 1/4W 10	(EB, GN) △
R606	ERDS1FJ3R3	C. RESISTOR 1/2W 3. 3	△
R607	ERDS2TJ391	C. RESISTOR 1/4W 390	
R608	ERDS2TJ221T	C. RESISTOR 1/4W 220	
R609	ERDS2TJ222T	C. RESISTOR 1/4W 2. 2K	
R610	ERDS2TJ222T	C. RESISTOR 1/4W 2. 2K	
R612	ERDS1FVJ100T	C. RESISTOR 1/2W 10	(E, E5, EG, GC) △
R612	ERD2FCVG100T	C. RESISTOR 1/4W 10	(EB, GN) △
R614	ERDS2TJ102T	C. RESISTOR 1/4W 1K	△
R615	ERDS2TJ560	C. RESISTOR 1/4W 56	
R616	ERDS2TJ560	C. RESISTOR 1/4W 56	
R617	ERQ16NKR15E	F. RESISTOR 1/6W 0. 15	(E, E5, EB, GC, GN) △
R618	ERQ16NKR15E	F. RESISTOR 1/6W 0. 15	(E, E5, EB, GC, GN) △
R619	ERDS2TJ560	C. RESISTOR 1/4W 56	(EB, GN)
R620	ERDS2TJ560	C. RESISTOR 1/4W 56	(EB, GN)
R621	ERDS2TJ560	C. RESISTOR 1/4W 56	(EB, GN)
R701	ERDS2TJ821T	C. RESISTOR 1/4W 820	
R702	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R703	ERDS2TJ122T	C. RESISTOR 1/4W 1. 2K	
R704	ERDS2TJ152T	C. RESISTOR 1/4W 1. 5K	
R705	ERDS2TJ821T	C. RESISTOR 1/4W 820	
R706	ERDS2TJ153T	C. RESISTOR 1/4W 15K	
R707	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R708	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R710	ERDS2TJ123T	C. RESISTOR 1/4W 12K	
R711	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R712	ERDS2TJ683T	C. RESISTOR 1/4W 68K	
R713	ERDS2TJ821T	C. RESISTOR 1/4W 820	
R714	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R715	ERDS2TJ122T	C. RESISTOR 1/4W 1. 2K	
R716	ERDS2TJ152T	C. RESISTOR 1/4W 1. 5K	
R717	ERDS2TJ182T	C. RESISTOR 1/4W 1. 8K	
R718	ERDS2TJ222T	C. RESISTOR 1/4W 2. 2K	
R719	ERDS2TJ332T	C. RESISTOR 1/4W 3. 3K	
R720	ERDS2TJ472T	C. RESISTOR 1/4W 4. 7K	
R721	ERDS2TJ682T	C. RESISTOR 1/4W 6. 8K	
R722	ERDS2TJ123T	C. RESISTOR 1/4W 12K	
R723	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R901	ERDS2TJ473T	C. RESISTOR 1/4W 47K	
R902	ERDS2TJ563	C. RESISTOR 1/4W 56K	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
R903	ERDS2TJ393T	C. RESISTOR 1/4W 39K		R956	ERDS2TJ223T	C. RESISTOR 1/4W 22K	△
R904	ERDS2TJ152T	C. RESISTOR 1/4W 1.5K		R957	ERDS2TJ821T	C. RESISTOR 1/4W 820	
R905	ERDS2TJ222T	C. RESISTOR 1/4W 2.2K		R958	ERDS2TJ223T	C. RESISTOR 1/4W 22K	△
R906	ERDS2TJ103T	C. RESISTOR 1/4W 10K		R959	ERDS2TJ821T	C. RESISTOR 1/4W 820	
R907	ERDS2TJ563	C. RESISTOR 1/4W 56K		R960	ERDS2TJ153T	C. RESISTOR 1/4W 15K	
R908	ERDS2TJ103T	C. RESISTOR 1/4W 10K		R961	ERDS2TJ221T	C. RESISTOR 1/4W 220	
R909	ERDS2TJ103T	C. RESISTOR 1/4W 10K		R962	ERDS2TJ103T	C. RESISTOR 1/4W 10K	
R910	ERDS2TJ103T	C. RESISTOR 1/4W 10K		R963	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K	
R911	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K		R964	ERDS2TJ184	C. RESISTOR 1/4W 180K	
R912	ERDS2TJ222T	C. RESISTOR 1/4W 2.2K		R965	ERDS2TJ103T	C. RESISTOR 1/4W 10K	
R913	ERDS2TJ271T	C. RESISTOR 1/4W 270		R966	ERDS2TJ223T	C. RESISTOR 1/4W 22K	△
R914	ERDS2TJ681T	C. RESISTOR 1/4W 680		R967	ERDS2TJ821T	C. RESISTOR 1/4W 820	
R915	ERDS2TJ683T	C. RESISTOR 1/4W 68K		R968	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K	
R916	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K		R969	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K	
R917	ERDS2TJ103T	C. RESISTOR 1/4W 10K		R971	ERDS2TJ182T	C. RESISTOR 1/4W 1.8K	
R918	ERDS2TJ103T	C. RESISTOR 1/4W 10K		R973	ERDS2TJ561T	C. RESISTOR 1/4W 560	
R919	ERDS2TJ471T	C. RESISTOR 1/4W 470		R974	ERDS2TJ103T	C. RESISTOR 1/4W 10K	
R920	ERDS2TJ103T	C. RESISTOR 1/4W 10K					
R921	ERDS2TJ103T	C. RESISTOR 1/4W 10K				CAPACITORS	
R922	ERDS2TJ103T	C. RESISTOR 1/4W 10K					
R924	ERDS2TJ103T	C. RESISTOR 1/4W 10K		C1	ECEA1HK010B	E. CAPACITOR 50V 1U	
R925	ERDS2TJ273T	C. RESISTOR 1/4W 27K		C2	ECEA1HK010B	E. CAPACITOR 50V 1U	
R926	ERDS2TJ102T	C. RESISTOR 1/4W 1K		C3	ECEA1HK010B	E. CAPACITOR 50V 1U	
R927	ERDS2TJ223T	C. RESISTOR 1/4W 22K		C5	ECEA1CK220B	E. CAPACITOR 16V 22U	
R928	ERDS2TJ562T	C. RESISTOR 1/4W 5.6K		C6	ECEA1CK220B	E. CAPACITOR 16V 22U	
R929	ERDS2TJ272T	C. RESISTOR 1/4W 2.7K		C7	ECBT1H561KB5	C. CAPACITOR 50V 560P	
R930	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K		C8	ECBT1H561KB5	C. CAPACITOR 50V 560P	
R931	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K		C9	ECBT1H561KB5	C. CAPACITOR 50V 560P	
R932	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K		C10	ECBT1H561KB5	C. CAPACITOR 50V 560P	
R933	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K		C11	ECBT1H102KB5	C. CAPACITOR 50V 1000P	
R934	ERDS2TJ105T	C. RESISTOR 1/4W 1M		C12	ECBT1H102KB5	C. CAPACITOR 50V 1000P	
R935	ERDS2TJ182T	C. RESISTOR 1/4W 1.8K		C13	ECEA0JU101B	E. CAPACITOR 6.3V 100U	
R936	ERDS2TJ103T	C. RESISTOR 1/4W 10K		C14	ECEA0JU101B	E. CAPACITOR 6.3V 100U	
R937	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K		C15	ECQB1H682JZ3	P. CAPACITOR 50V 6800P	
R938	ERDS2TJ103T	C. RESISTOR 1/4W 10K		C16	ECQB1H682JZ3	P. CAPACITOR 50V 6800P	
R939	ERDS2TJ103T	C. RESISTOR 1/4W 10K		C17	ECEA1EK4R7B	E. CAPACITOR 25V 4.7U	
R940	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K		C18	ECEA1EK4R7B	E. CAPACITOR 25V 4.7U	
R941	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K		C19	ECEA1EK4R7B	E. CAPACITOR 25V 4.7U	
R942	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K		C20	ECEA1EK4R7B	E. CAPACITOR 25V 4.7U	
R943	ERDS2TJ223T	C. RESISTOR 1/4W 22K		C21	ECEA0JU101B	E. CAPACITOR 6.3V 100U	
R944	ERDS2TJ333T	C. RESISTOR 1/4W 33K		C23	ECEA1HK010B	E. CAPACITOR 50V 1U	
R945	ERDS2TJ223T	C. RESISTOR 1/4W 22K		C24	ECEA1HK010B	E. CAPACITOR 50V 1U	
R946	ERDS2TJ102T	C. RESISTOR 1/4W 1K		C25	ECEA1HK010B	E. CAPACITOR 50V 1U	
R947	ERDS2TJ102T	C. RESISTOR 1/4W 1K		C26	ECEA1HK010B	E. CAPACITOR 50V 1U	
R948	ERDS2TJ184	C. RESISTOR 1/4W 180K		C27	ECBT1H561KB5	C. CAPACITOR 50V 560P	
R949	ERDS2TJ103T	C. RESISTOR 1/4W 10K		C28	ECBT1H561KB5	C. CAPACITOR 50V 560P	
R950	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K		C29	ECKD2H101KB	C. CAPACITOR 500V 100P	
R951	ERDS2TJ103T	C. RESISTOR 1/4W 10K		C30	ECKD2H101KB	C. CAPACITOR 500V 100P	
R952	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K		C31	ECCT1H181K	C. CAPACITOR 50V 180P	
R953	ERDS2TJ103T	C. RESISTOR 1/4W 10K		C32	ECCT1H181K	C. CAPACITOR 50V 180P	
R954	ERDS2TJ223T	C. RESISTOR 1/4W 22K	△	C33	ECEA1HKR47	E. CAPACITOR 50V 0.47U	
R955	ERDS2TJ821T	C. RESISTOR 1/4W 820		C34	ECEA1HKR47	E. CAPACITOR 50V 0.47U	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
C35	ECQB1H392JZ3	P. CAPACITOR 50V 3900P		C428	ECQB1H472JZ3	P. CAPACITOR 50V 4700P	
C36	ECQB1H392JZ3	P. CAPACITOR 50V 3900P		C429	ECQB1H103JZ	P. CAPACITOR 50V 0.01U	
C37	ECQB1H183JZ3	P. CAPACITOR 50V 0.018U		C430	ECQB1H103JZ	P. CAPACITOR 50V 0.01U	
C38	ECQB1H183JZ3	P. CAPACITOR 50V 0.018U		C431	ECEA1CK100B	E. CAPACITOR 16V 10U	
C39	ECQB1H822JZ3	P. CAPACITOR 50V 8200P		C432	ECEA1CK100B	E. CAPACITOR 16V 10U	
C40	ECQB1H822JZ3	P. CAPACITOR 50V 8200P		C501	ECEA1HK2R2B	E. CAPACITOR 50V 2.2U	
C41	ECQB1H273JZ3	P. CAPACITOR 50V 0.027U		C503	ECBT1E103ZF	C. CAPACITOR 25V 0.01U	△
C42	ECQB1H273JZ3	P. CAPACITOR 50V 0.027U		C601	ECKT2H682PEL	C. CAPACITOR 500V 6800P	
C45	ECKT1H103ZF	C. CAPACITOR 50V 0.01U		C602	ECEA1EU102B	E. CAPACITOR 25V 1000U	△
C46	ECKT1H103ZF	C. CAPACITOR 50V 0.01U		C603	ECEA1EU102B	E. CAPACITOR 25V 1000U	△
C49	ECEA1CK100B	E. CAPACITOR 16V 10U		C604	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C50	ECEA1CK100B	E. CAPACITOR 16V 10U		C605	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C53	ECQB1H183JZ3	P. CAPACITOR 50V 0.018U		C606	ECEA1AU221B	E. CAPACITOR 10V 220U	
C54	ECQB1H183JZ3	P. CAPACITOR 50V 0.018U		C607	ECEA1AU221B	E. CAPACITOR 10V 220U	
C55	ECBT1H102KB5	C. CAPACITOR 50V 1000P		C608	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C58	ECEA1CU470	E. CAPACITOR 16V 47U		C610	ECEA0JU102E	E. CAPACITOR 6.3V 1000U	
C301	ECQP1153JZ	P. CAPACITOR 50V 0.015U		C611	ECEA0JU102E	E. CAPACITOR 6.3V 1000U	
C302	ECEA1CU221B	C. CAPACITOR 50V 3900U		C612	ECEA1EU222E	E. CAPACITOR 25V 2200U	△
C303	ECKD1H392K	C. CAPACITOR 50V 3900P		C901	ECEA0JU222B	E. CAPACITOR 6.3V 2200U	
C304	ECFR1E222KAY	S. CAPACITOR 25V 2200P		C903	ECEA1HK010B	E. CAPACITOR 50V 1U	
C305	ECFR1E222KAY	S. CAPACITOR 25V 2200P		C904	ECEA1EK4R7B	E. CAPACITOR 25V 4.7U	
C306	ECFR1E682KAY	S. CAPACITOR 25V 6800P		C907	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C307	ECCT1H221K	C. CAPACITOR 50V 220P		C909	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C308	ECCT1H221K	C. CAPACITOR 50V 220P					
C309	ECKT1H103ZF	C. CAPACITOR 50V 0.01U					
C401	ECCT1H820K	C. CAPACITOR 50V 82P					
C402	ECCT1H820K	C. CAPACITOR 50V 82P					
C403	ECEA1EK4R7B	E. CAPACITOR 25V 4.7U					
C404	ECEA1EK4R7B	E. CAPACITOR 25V 4.7U					
C405	ECKD1H122KB	C. CAPACITOR 50V 1200P					
C406	ECKD1H122KB	C. CAPACITOR 50V 1200P					
C407	ECKT1H152KB	C. CAPACITOR 50V 1500P					
C408	ECKT1H152KB	C. CAPACITOR 50V 1500P					
C409	ECQB1H472JZ3	P. CAPACITOR 50V 4700P					
C410	ECQB1H472JZ3	P. CAPACITOR 50V 4700P					
C411	ECEA1CK100B	E. CAPACITOR 16V 10U					
C412	ECEA1CK100B	E. CAPACITOR 16V 10U					
C413	ECQV1H473JZ	P. CAPACITOR 50V 0.047U					
C414	ECQV1H473JZ	P. CAPACITOR 50V 0.047U					
C415	ECQV1H224JZ3	P. CAPACITOR 50V 0.22U					
C416	ECQV1H224JZ3	P. CAPACITOR 50V 0.22U					
C417	ECEA1HKR68	E. CAPACITOR 50V 0.68U					
C418	ECEA1HKR68	E. CAPACITOR 50V 0.68U					
C419	ECEA1HKR68	E. CAPACITOR 50V 0.68U					
C420	ECEA1HKR68	E. CAPACITOR 50V 0.68U					
C421	ECQV1H224JZ3	P. CAPACITOR 50V 0.22U					
C422	ECQV1H224JZ3	P. CAPACITOR 50V 0.22U					
C423	ECQV1H473JZ	P. CAPACITOR 50V 0.047U					
C424	ECQV1H473JZ	P. CAPACITOR 50V 0.047U					
C425	ECEA1CK100B	E. CAPACITOR 16V 10U					
C426	ECEA1CK100B	E. CAPACITOR 16V 10U					
C427	ECQB1H472JZ3	P. CAPACITOR 50V 4700P					

REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Remarks columns specify the area. (Refer to the first page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS					
IC1	AN7384	IC, ELECTRIC VOLUME		Q606	2SD592QRSTA	TRANSISTOR	
IC2	AN7351K	IC, PLAYBACK/REC AMP		Q901	2SC3311A-Q	TRANSISTOR	
IC401	TEA0665	IC, DOLBY B/C NR		Q902	DTA114ESTP	TRANSISTOR	
IC402	TEA0665	IC, DOLBY B/C NR		Q903	DTA114ESTP	TRANSISTOR	
IC501	AN6888	IC, LED METER DRIVE		Q904	2SB1030RSTTA	TRANSISTOR	
IC901	M50746-166SP	IC, MICROCOMPUTER		Q905	2SC3311A-Q	TRANSISTOR	
IC951	DN6851A	IC, HALL		Q907	2SA1309AQSTA	TRANSISTOR	
IC971	DN6851A	IC, HALL		Q908	DTA114ESTP	TRANSISTOR	
		TRANSISTORS		Q909	DTA114ESTP	TRANSISTOR	
				Q910	DTC114ESTP	TRANSISTOR	
				Q911	2SA1309AQSTA	TRANSISTOR	
				Q912	2SB621ARSTA	TRANSISTOR	Δ
				Q913	DTC114ESTP	TRANSISTOR	
				Q914	2SB1030RSTTA	TRANSISTOR	Δ
Q1	2SJ164PQRTA	TRANSISTOR		Q915	DTC114ESTP	TRANSISTOR	
Q2	2SJ164PQRTA	TRANSISTOR		Q916	2SB1030RSTTA	TRANSISTOR	Δ
Q3	2SJ164PQRTA	TRANSISTOR		Q917	DTC114ESTP	TRANSISTOR	
Q4	2SJ164PQRTA	TRANSISTOR		Q918	2SA1309AQSTA	TRANSISTOR	
Q5	2SA1309AQSTA	TRANSISTOR		Q919	DTC114ESTP	TRANSISTOR	
Q6	2SA1309AQSTA	TRANSISTOR		Q920	2SB621ARSTA	TRANSISTOR	Δ
Q7	2SA1309AQSTA	TRANSISTOR		Q921	DTC114ESTP	TRANSISTOR	
Q8	2SA1309AQSTA	TRANSISTOR		Q922	DTC114ESTP	TRANSISTOR	
Q9	2SC3311A-Q	TRANSISTOR		Q924	DTA114ESTP	TRANSISTOR	
Q10	2SC3311A-Q	TRANSISTOR		Q925	DTA114ESTP	TRANSISTOR	
Q11	2SC3311A-Q	TRANSISTOR		Q926	DTA114ESTP	TRANSISTOR	
Q12	2SC3311A-Q	TRANSISTOR					
Q13	2SC3311A-Q	TRANSISTOR				DIODES	
Q14	2SC3311A-Q	TRANSISTOR					
Q15	2SD1450RSTTA	TRANSISTOR		D1	MA167TA	DIODE	
Q16	2SD1450RSTTA	TRANSISTOR		D2	MA167TA	DIODE	
Q17	DTA114ESTP	TRANSISTOR		D501	LN346GP-C	L. E. D	
Q301	2SC3311A-Q	TRANSISTOR		D502	LN346GP-C	L. E. D	
Q302	2SC3311A-Q	TRANSISTOR		D503	LN846RP-C	L. E. D	
Q303	2SB621ARSTA	TRANSISTOR		D504	LN346GP-C	L. E. D	
Q304	2SD592QRSTA	TRANSISTOR		D505	LN346GP-C	L. E. D	
Q502	DTA114ESTP	TRANSISTOR		D509	LN846RP-LS	L. E. D	
Q503	DTA114ESTP	TRANSISTOR		D510	LN846RP-LS	L. E. D	
Q504	DTA114ESTP	TRANSISTOR		D511	LN346GP-C	L. E. D	
Q505	DTA114ESTP	TRANSISTOR		D512	LN346GP-C	L. E. D	
Q506	DTA114ESTP	TRANSISTOR		D513	LN346GP-C	L. E. D	
Q513	DTA114ESTP	TRANSISTOR		D514	LN346GP-C	L. E. D	
Q514	DTA114ESTP	TRANSISTOR		D515	MA165TA	DIODE	
Q515	DTA114ESTP	TRANSISTOR		D516	MA165TA	DIODE	
Q601	2SA1309AQSTA	TRANSISTOR	Δ	D520	LN846RP-LS	L. E. D	
Q603	2SC3311A-Q	TRANSISTOR	Δ	D522	LN846RP-LS	L. E. D	
Q604	2SD2037EFTA	TRANSISTOR		D524	LN846RP-LS	L. E. D	
Q605	2SB1357DEFTA	TRANSISTOR		D526	LN846RP-LS	L. E. D	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
D528	LN846RP-LS	L. E. D		VR903	EVN4LCA00B53	V. R. TAPE SPEED ADJ. (X1)	
D533	LN346GP-C	L. E. D				COILS	
D534	LN346GP-C	L. E. D					
D535	MA165TA	DIODE		L1	SLQX303-1KT	COIL	
D536	MA165TA	DIODE		L2	SLQX303-1KT	COIL	
D601	1SR35200TB	DIODE	Δ	L3	SLQX272-1YT	COIL	
D602	1SR35200TB	DIODE	Δ	L4	SLQX272-1YT	COIL	
D603	1SR35200TB	DIODE	Δ	L301	SL09B4-K	COIL	
D604	1SR35200TB	DIODE	Δ	L401	QLM9Z10K	COIL	
D605	1SR35200TB	DIODE	Δ	L402	QLM9Z10K	COIL	
D606	1SR35200TB	DIODE	Δ	L403	SLM1B8-K	COIL	
D607	MA4082MTA	DIODE		L404	SLM1B8-K	COIL	
D608	MA4082MTA	DIODE				OSCILLATORS	
D610	MA4062LTA	DIODE					
D612	MA165TA	DIODE					
D901	MA165TA	DIODE		X901	EF0GC4004T4	CERAMIC FILTER	
D902	MA165TA	DIODE					
D903	MA165TA	DIODE				TRANSFORMERS	
D904	MA165TA	DIODE					
D905	MA165TA	DIODE					
D906	MA165TA	DIODE		T601	SLT5K252K	POWER TRANSFORMER	(EG) Δ
D907	MA165TA	DIODE					
D908	1SR35200TB	DIODE				FUSES	
D909	MA165TA	DIODE					
D910	MA165TA	DIODE		F601	XBA2C20TB0	FUSE	(EG) Δ
D911	MA165TA	DIODE	Δ				
D912	MA165TA	DIODE	Δ			SWITCHES	
D913	MA165TA	DIODE					
D914	MA4051MTA	DIODE		S701	EVQQB005R	SW, STOP (DECK B)	
D915	MA165TA	DIODE		S702	EVQQB005R	SW, F. F. (DECK B)	
D916	MA165TA	DIODE		S703	EVQQB005R	SW, REW. (DECK B)	
D951	1SS133	DIODE		S704	EVQQB005R	SW, F. PLAYBACK (DECK B)	
D971	1SS133	DIODE		S705	EVQQB005R	SW, R. PLAYBACK (DECK B)	
				S706	SSS180-1	SW, REVERSE MODE	
		I. C. PROTECTORS		S708	EVQQB005R	SW, AUTO REC MUTE (DECK A)	
ICP1	SRUN10T	I. C. PROTECTOR	(EB, GN)	S711	EVQQB005R	SW, STOP (DECK A)	
				S712	EVQQB005R	SW, F. F (DECK A)	
		VARIABLE RESISTORS		S713	EVQQB005R	SW, REW. (DECK A)	
				S714	EVQQB005R	SW, F. PLAYBACK (DECK A)	
VR1	EVJ02FF01B15	V. R. REC. LEVEL CONTROL		S715	EVQQB005R	SW, R. PLAYBACK (DECK A)	
VR3	EVNDXAA00B24	V. R. PLAYBACK GAIN ADJ.		S716	EVQQB005R	SW, REC. (DECK A)	
VR4	EVNDXAA00B24	V. R. PLAYBACK GAIN ADJ.		S717	EVQQB005R	SW, PAUSE (DECK A)	
VR5	EVNDXAA00B24	V. R. PLAYBACK GAIN ADJ.		S718	EVQQB005R	SW, SYNCHRO-START	
VR6	EVNDXAA00B24	V. R. PLAYBACK GAIN ADJ.		S719	EVQQB005R	SW, X2 SPEED	
VR7	EVNDXAA00B14	V. R. OVERALL GAIN ADJ.		S720	EVQQB005R	SW, X1 SPEED	
VR8	EVNDXAA00B14	V. R. OVERALL GAIN ADJ.		S721	EVQQB005R	SW, DOLBY C NR	
VR301	EVNDXAA00B53	V. R. ERASE CURRENT ADJ.		S722	EVQQB005R	SW, DOLBY B NR	
VR302	EVNDXAA00B15	V. R. OVERALL FREQ. ADJ.		S725	RSP2B005-J	SW, POWER	Δ
VR303	EVNDXAA00B15	V. R. OVERALL FREQ. ADJ.		S726	SSS180-1	SW, TIMER	
VR901	EVN4LCA00B53	V. R. TAPE SPEED ADJ. (X2)				LED BLOCK	
VR902	EVN4LCA00B53	V. R. TAPE SPEED ADJ. (X1)					

placing any of these
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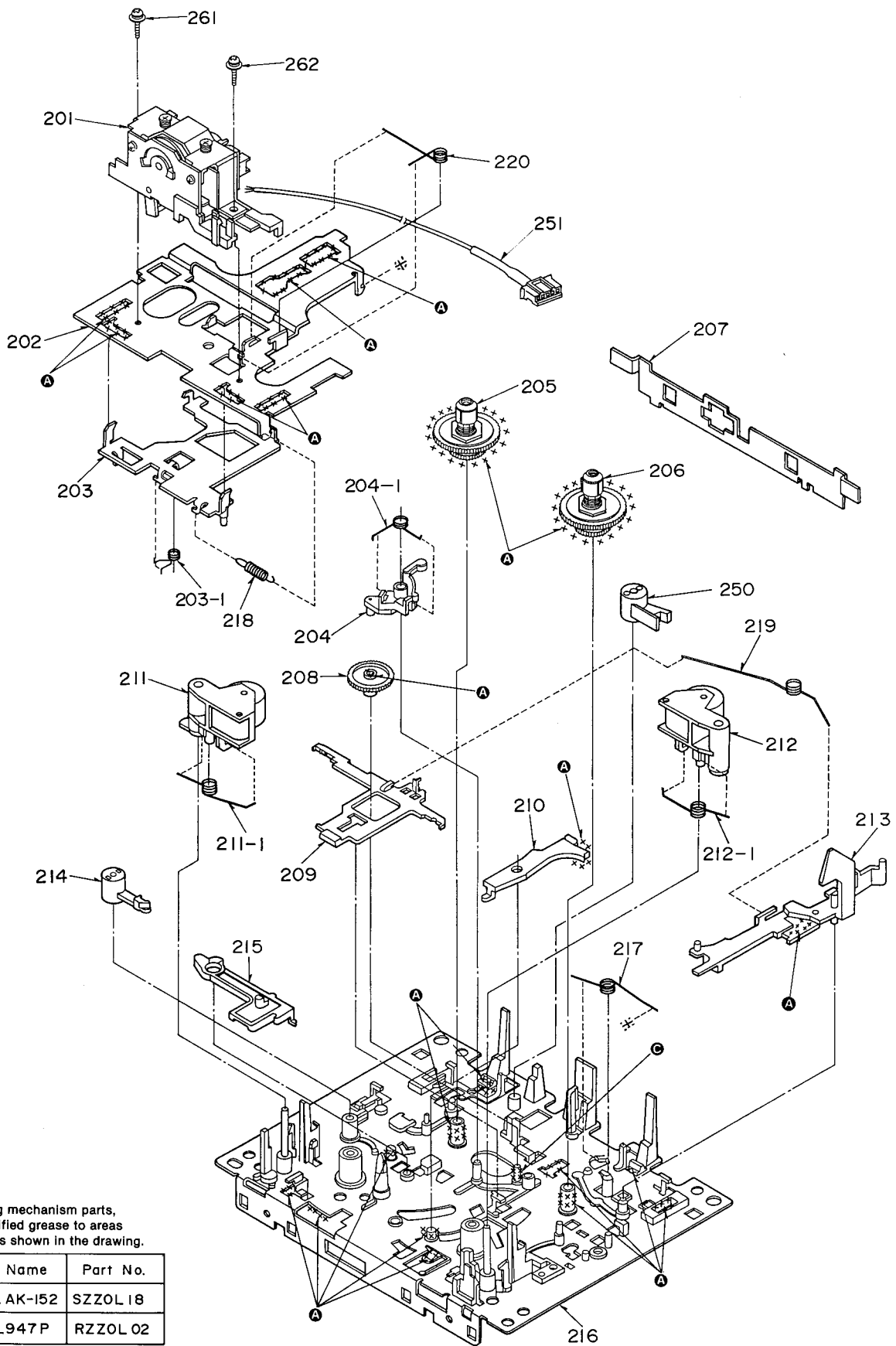
Ref. No.	Part No.	Part Name & Description	Remarks
D528	LN846RP-LS	L. E. D	
D533	LN346GP-C	L. E. D	
D534	LN346GP-C	L. E. D	
D535	MA165TA	DIODE	
D536	MA165TA	DIODE	
D601	1SR35200TB	DIODE	△
D602	1SR35200TB	DIODE	△
D603	1SR35200TB	DIODE	△
D604	1SR35200TB	DIODE	△
D605	1SR35200TB	DIODE	△
D606	1SR35200TB	DIODE	△
D607	MA4082MTA	DIODE	
D608	MA4082MTA	DIODE	
D610	MA4062LTA	DIODE	
D612	MA165TA	DIODE	
D901	MA165TA	DIODE	
D902	MA165TA	DIODE	
D903	MA165TA	DIODE	
D904	MA165TA	DIODE	
D905	MA165TA	DIODE	
D906	MA165TA	DIODE	
D907	MA165TA	DIODE	
D908	1SR35200TB	DIODE	
D909	MA165TA	DIODE	
D910	MA165TA	DIODE	
D911	MA165TA	DIODE	△
D912	MA165TA	DIODE	△
D913	MA165TA	DIODE	
D914	MA4051MTA	DIODE	
D915	MA165TA	DIODE	
D916	MA165TA	DIODE	
D951	1SS133	DIODE	
D971	1SS133	DIODE	
		I. C. PROTECTORS	
ICP1	SRUN10T	I. C. PROTECTOR	(EB, GN)
		VARIABLE RESISTORS	
VR1	EVJ02FF01B15	V. R. REC. LEVEL CONTROL	
VR3	EVNDXAA00B24	V. R. PLAYBACK GAIN ADJ.	
VR4	EVNDXAA00B24	V. R. PLAYBACK GAIN ADJ.	
VR5	EVNDXAA00B24	V. R. PLAYBACK GAIN ADJ.	
VR6	EVNDXAA00B24	V. R. PLAYBACK GAIN ADJ.	
VR7	EVNDXAA00B14	V. R. OVERALL GAIN ADJ.	
VR8	EVNDXAA00B14	V. R. OVERALL GAIN ADJ.	
VR301	EVNDXAA00B53	V. R. ERASE CURRENT ADJ.	
VR302	EVNDXAA00B15	V. R. OVERALL FREQ. ADJ.	
VR303	EVNDXAA00B15	V. R. OVERALL FREQ. ADJ.	
VR901	EVN4LCA00B53	V. R. TAPE SPEED ADJ. (X2)	
VR902	EVN4LCA00B53	V. R. TAPE SPEED ADJ. (X1)	

Ref. No.	Part No.	Part Name & Description	Remarks
VR903	EVN4LCA00B53	V. R. TAPE SPEED ADJ. (X1)	
		COILS	
L1	SLQX303-1KT	COIL	
L2	SLQX303-1KT	COIL	
L3	SLQX272-1YT	COIL	
L4	SLQX272-1YT	COIL	
L301	SL09B4-K	COIL	
L401	QLM9Z10K	COIL	
L402	QLM9Z10K	COIL	
L403	SLM1B8-K	COIL	
L404	SLM1B8-K	COIL	
		OSCILLATORS	
X901	EF0GC4004T4	CERAMIC FILTER	
		TRANSFORMERS	
T601	SLT5K252K	POWER TRANSFORMER	(EG) △
		FUSES	
F601	XBA2C20TB0	FUSE	(EG) △
		SWITCHES	
S701	EVQQB005R	SW, STOP (DECK B)	
S702	EVQQB005R	SW, F. F. (DECK B)	
S703	EVQQB005R	SW, REW. (DECK B)	
S704	EVQQB005R	SW, F. PLAYBACK (DECK B)	
S705	EVQQB005R	SW, R. PLAYBACK (DECK B)	
S706	SSS180-1	SW, REVERSE MODE	
S708	EVQQB005R	SW, AUTO REC MUTE (DECK A)	
S711	EVQQB005R	SW, STOP (DECK A)	
S712	EVQQB005R	SW, F. F (DECK A)	
S713	EVQQB005R	SW, REW. (DECK A)	
S714	EVQQB005R	SW, F. PLAYBACK (DECK A)	
S715	EVQQB005R	SW, R. PLAYBACK (DECK A)	
S716	EVQQB005R	SW, REC. (DECK A)	
S717	EVQQB005R	SW, PAUSE (DECK A)	
S718	EVQQB005R	SW, SYNCHRO-START	
S719	EVQQB005R	SW, X2 SPEED	
S720	EVQQB005R	SW, X1 SPEED	
S721	EVQQB005R	SW, DOLBY C NR	
S722	EVQQB005R	SW, DOLBY B NR	
S725	RSP2B005-J	SW, POWER	△
S726	SSS180-1	SW, TIMER	
		LED BLOCK	

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MECHANICAL PARTS LOCATION

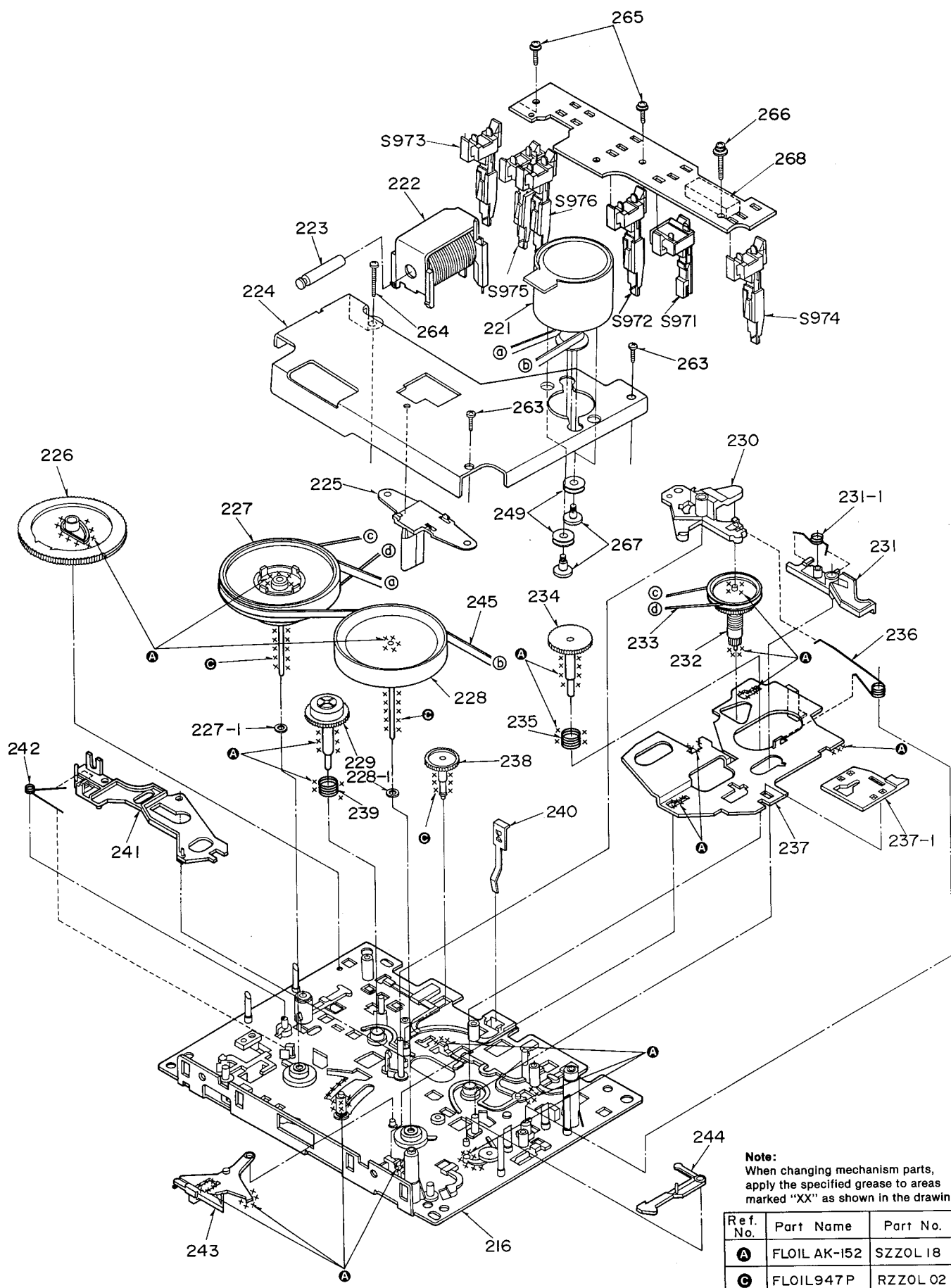
(DECK A: Front view)



Note:
When changing mechanism parts,
apply the specified grease to areas
marked "XX" as shown in the drawing.

Ref. No.	Part Name	Part No.
A	FLOIL AK-I52	SZZOL I8
C	FLOIL947P	RZZOL 02

(DECK A: Rear view)



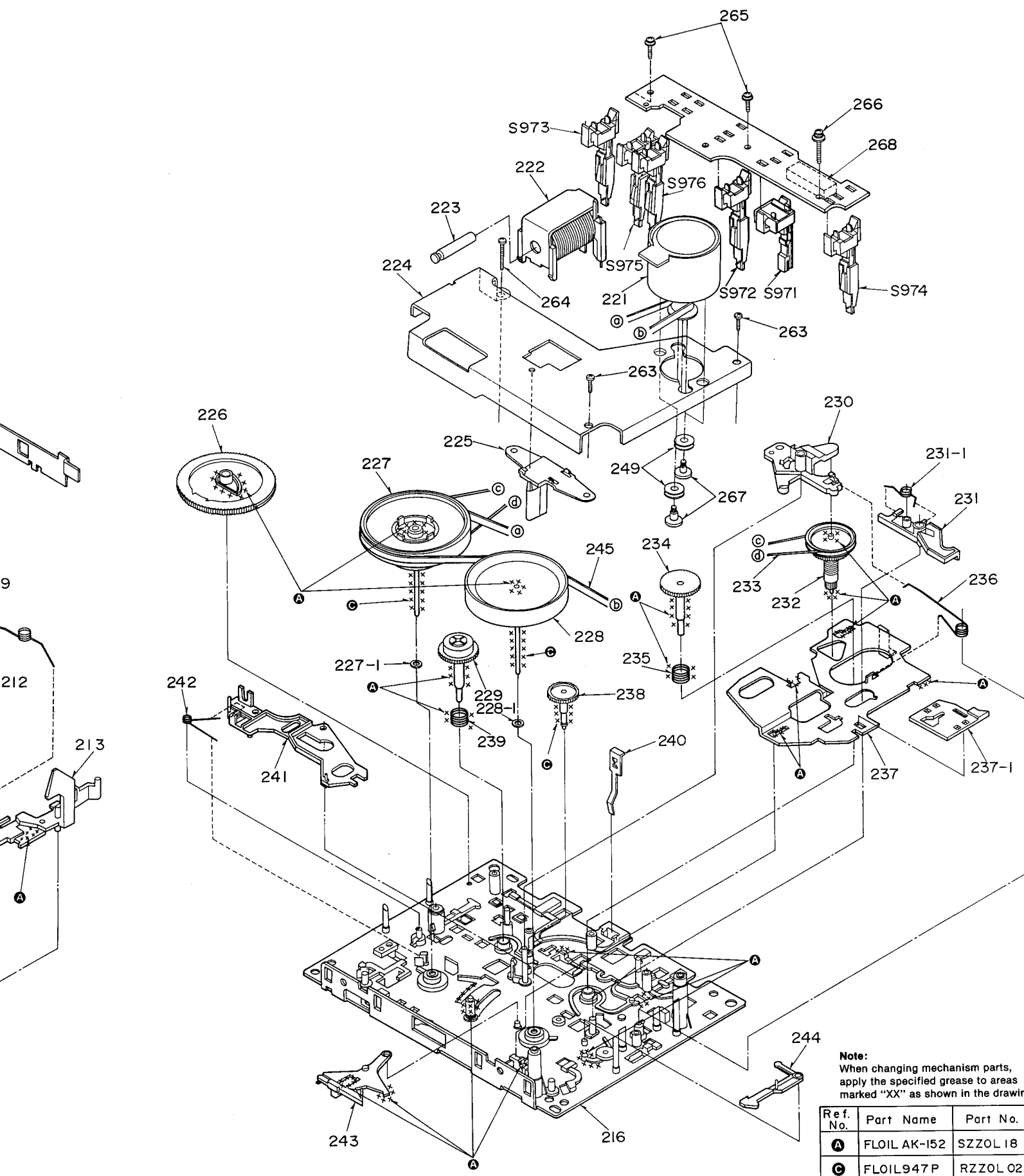
Note:
When changing mechanism parts,
apply the specified grease to areas
marked "XX" as shown in the drawing.

Ref. No.	Part Name	Part No.
A	FLOIL AK-I52	SZZOL I8
C	FLOIL947P	RZZOL 02

REPLACEMENT PARTS

Ref. No.	Part No.	Part Name
DECK A		
201	RXQ0019	HEAD
202	RJA793Z	HEAD
203	RZLAR300	ROD
203-1	RJW143Z	SPR
204	1UB0089ZA	ARM
204-1	RJW148ZA	SPR
205	1DW0018ZA	REEL
206	1DW0017ZA	REEL
207	RJB502Z	LEV
208	RDG5772Z	GEAR
209	RJB508ZA	BRACKET
210	RJB506Z	LEV
211	1UB0088ZA	ARM
211-1	RJW141Z	SPR
212	1UB0087ZA	ARM
212-1	RJW140Z	SPR
213	RJB507Z	EJECTOR
214	RNL1Z	DAMPER
215	RJB503Z	MAIN
216	RZUSX980	CHASSIS
217	RJW142ZA	SPR
218	RJD105Z	SPR
219	RJW144ZA	SPR
220	RJW139ZA	SPR
221	RFM134ZA	DC MOTOR
222	1UE0015ZA	PLATE
223	RJB428Z	MOV
224	RUL1030ZC	ANGLE
225	RMD5014Z	ANGLE
226	RDG5927ZA	GEAR
227	1DW0037ZA	FLY
227-1	RNW139ZA	WASHER
228	1DW0038ZA	FLY
228-1	RNW138Z	WASHER
229	1DG0006ZA	REEL
230	RJB513Z	ARM
231	1UB0091ZA	LEV
231-1	RJW146ZA	SPR
232	1DR0011ZA	MAIN
233	RDV902B	BELT
234	RDG5769ZA	REEL
235	RJQ10Z	SPR
236	RJW145ZA	SPR
237	1UB0090ZA	ROD
237-1	RJB512Z	ROD
238	RDG5773ZA	GEAR
239	RJQ30Z	SPR
240	RUS609Z	TAP

(DECK A: Rear view)



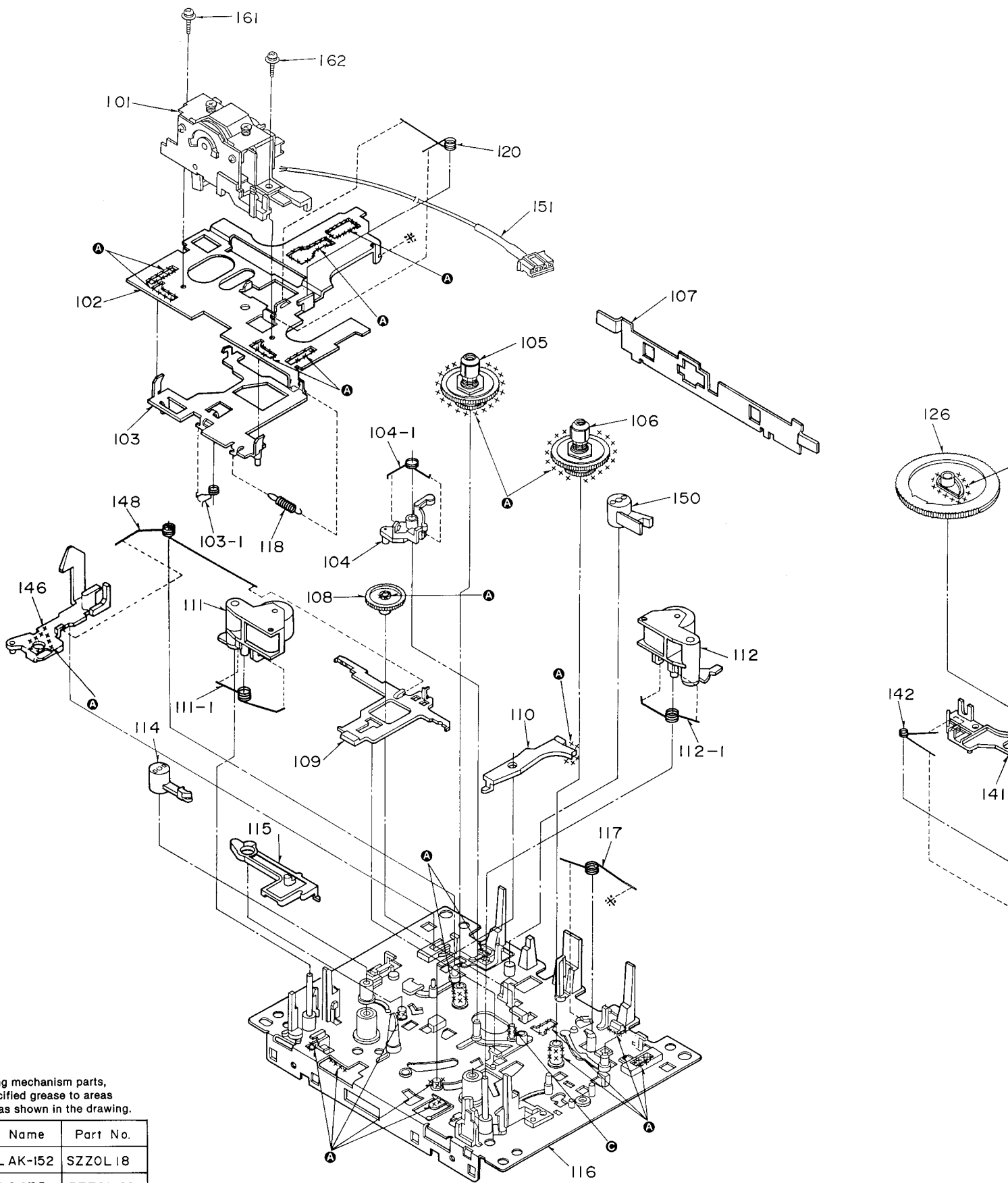
REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
MECHANISM PARTS LIST				241	RUB514Z	LEVER	
DECK A				242	RUW147ZA	SPRING	
201	RXQ0019	HEAD BLOCK (REC./PLAYBACK)		243	RUB515Z	LEVER	
202	RJA793Z	HEAD BASE		244	RUB509ZA	LEVER	
203	RZLAR300	ROD		245	RDV108ZA	CAPSTAN BELT	
203-1	RUW143Z	SPRING		249	RHG3032Z	RUBBER CUSHION	
204	1UB0089ZA	ARM		250	RNL97ZA	DAMPER ARM	
204-1	RUW148ZA	SPRING		251	REX0059	LEAD WIRE BLOCK	
205	1DM0018ZA	REEL TABLE (R)		261	XTW2+6L	SCREW	
206	1DM0017ZA	REEL TABLE (F)		262	XTW2+8L	SCREW	
207	RUB502Z	LEVER		263	XTN26+7J	SCREW	
208	RDG5772Z	GEAR		264	XTN26+16F	SCREW	
209	RUB508ZA	BRAKE ROD		265	XTW2+8S	SCREW	
210	RUB506Z	LEVER		266	XYC2+JF16	SCREW	
211	1UB0088ZA	ARM (R)		267	QH1303	SCREW	
211-1	RUW141Z	SPRING		268	SJT31044-H	CONNECTOR (10P), J971	
212	1UB0087ZA	ARM (F)		269	XYN26+F6	SCREW	
212-1	RUW140Z	SPRING					
213	RUB507Z	EJECT ROD (R)					
214	RNL1Z	DAMPER ARM					
215	RUB503Z	MAIN LEVER					
216	RZUSX980	CHASSIS					
217	RUW142ZA	SPRING					
218	RD105Z	SPRING					
219	RUW144ZA	SPRING					
220	RUW139ZA	SPRING					
221	RFM134ZA	DC MOTOR					
222	1UE0015ZA	PLUNGER					
223	RUB428Z	MOVING IRON CORE					
224	RUL1030ZC	ANGLE					
225	RMD5014Z	ANGLE					
226	RDG5927ZA	GEAR					
227	1DM0037ZA	FLYWHEEL (F)					
227-1	RNW139ZA	WASHER					
228	1DM0038ZA	FLYWHEEL (R)					
228-1	RNW138Z	WASHER					
229	1DG0006ZA	REEL TABLE GEAR					
230	RUB513Z	ARM					
231	1UB0091ZA	LEVER					
231-1	RUW146ZA	SPRING					
232	1DR0011ZA	MAIN PULLEY					
233	RDV902B	BELT					
234	RDG5769ZA	REEL TABLE GEAR					
235	RUQ10Z	SPRING					
236	RUW145ZA	SPRING					
237	1UB0090ZA	ROD					
237-1	RUB512Z	ROD					
238	RDG5773ZA	GEAR					
239	RUQ30Z	SPRING					
240	RUS609Z	TAPE PRESSURE SPRING					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST					
DECK B							
101	RXQ0021	HEAD BLOCK (PLAYBACK)		143	RUB515Z	LEVER	
102	RJA793ZD	HEAD BASE		144	RUB509ZA	LEVER	
103	RZLAR300	ROD		145	RDV97ZA	CAPSTAN BELT	
103-1	RJW143Z	SPRING		146	RUB541ZB	EJECT ROD (L)	
104	1UB0089ZA	ARM		148	RJW167ZA	SPRING	
104-1	RJW148ZA	SPRING		149	RHG3032Z	RUBBER CUSHION	
105	1DM0018ZA	REEL TABLE (R)		150	RNL180ZA	DAMPER ARM	
106	1DM0017ZA	REEL TABLE (F)		151	REX0061	LEAD WIRE BLOCK	
107	RUB502Z	LEVER		161	XTW2+6L	SCREW	
108	RDG5772Z	GEAR		162	XTW2+8L	SCREW	
109	RUB508ZA	BRAKE ROD		163	XTN26+7J	SCREW	
110	RUB506Z	LEVER		164	XTN26+16F	SCREW	
111	1UB0088ZA	ARM (R)		165	XTW2+8S	SCREW	
111-1	RJW141Z	SPRING		166	XYC2+JF16	SCREW	
112	1UB0087ZA	ARM (F)		167	QH1303	SCREW	
112-1	RJW140Z	SPRING		168	SJT30744-H	CONNECTOR (7P), J951	
114	RNL1Z	DAMPER ARM		169	XYN26+F6	SCREW	
115	RUB503Z	MAIN LEVER					
116	RZUSX980	CHASSIS					
117	RJW142ZA	SPRING					
118	RJD105Z	SPRING					
120	RJW139ZA	SPRING					
121	RFM134ZA	DC MOTOR					
122	1UE0015ZA	PLUNGER					
123	RUB428Z	MOVING IRON CORE					
124	RUL1030ZC	ANGLE					
125	RMD5014Z	ANGLE					
126	RDG5927ZA	GEAR					
127	1DW0037ZA	FLYWHEEL (F)					
127-1	RNW139ZA	WASHER					
128	1DW0038ZA	FLYWHEEL (R)					
128-1	RNW138Z	WASHER					
129	1DG0006ZA	REEL TABLE GEAR					
130	RUB513Z	ARM					
131	1UB0091ZA	LEVER					
131-1	RJW146ZA	SPRING					
132	1DR0011ZA	MAIN PULLEY					
133	RDV90ZB	BELT					
134	RDG5769ZA	REEL TABLE GEAR					
135	RJQ10Z	SPRING					
136	RJW145ZA	SPRING					
137	1UB0090ZA	ROD					
137-1	RUB512Z	ROD					
138	RDG5773ZA	GEAR					
139	RJQ30Z	SPRING					
140	RUS609Z	TAPE PRESSURE SPRING					
141	RUB514Z	LEVER					
142	RJW147ZA	SPRING					

MECHANICAL PARTS LOCATION

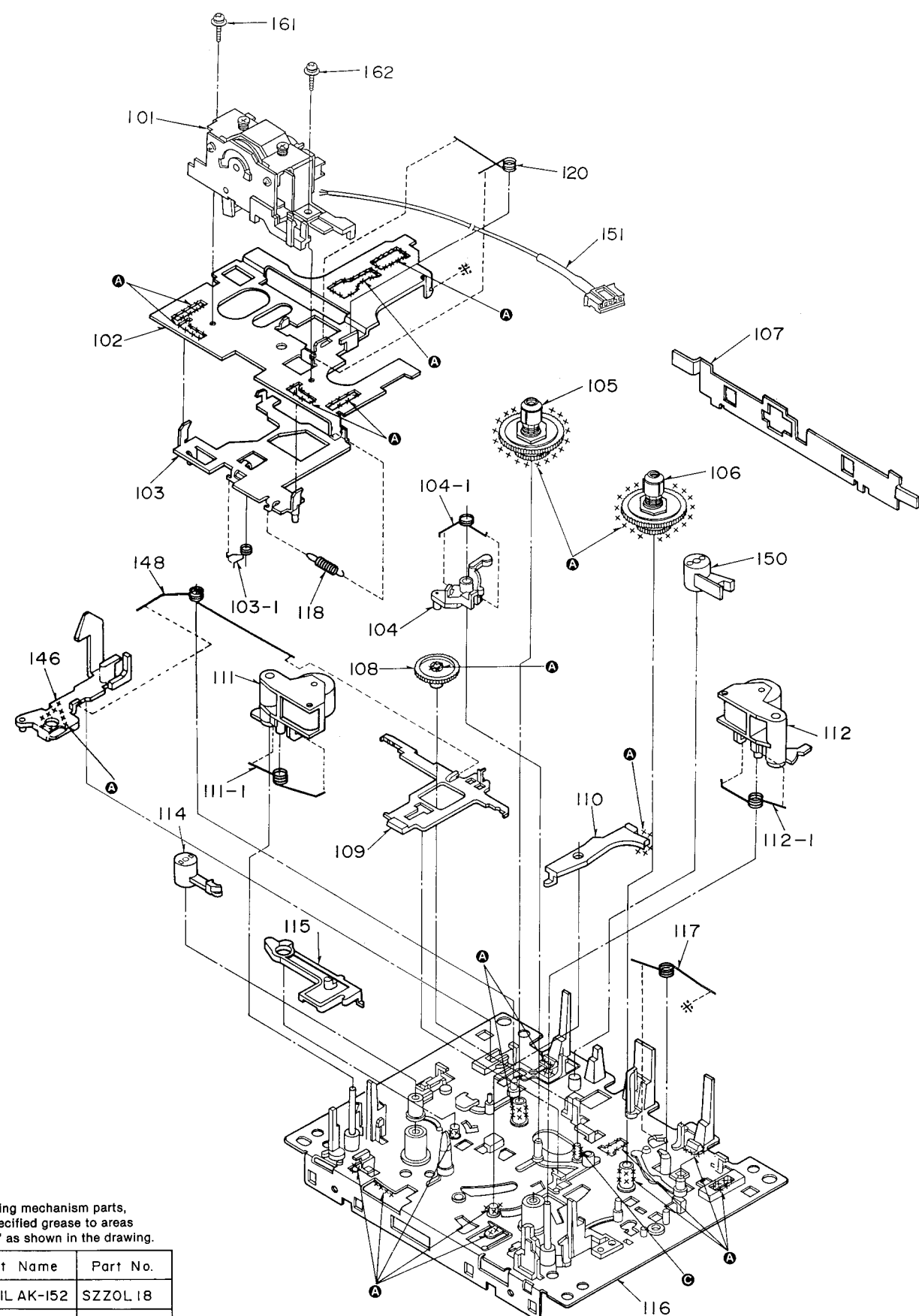
(DECK B: Front view)



Note:
When changing mechanism parts,
apply the specified grease to areas
marked "XX" as shown in the drawing.

Ref. No.	Part Name	Part No.
A	FLOIL AK-I52	SZZOL 18
C	FLOIL 947P	RZZOL 02

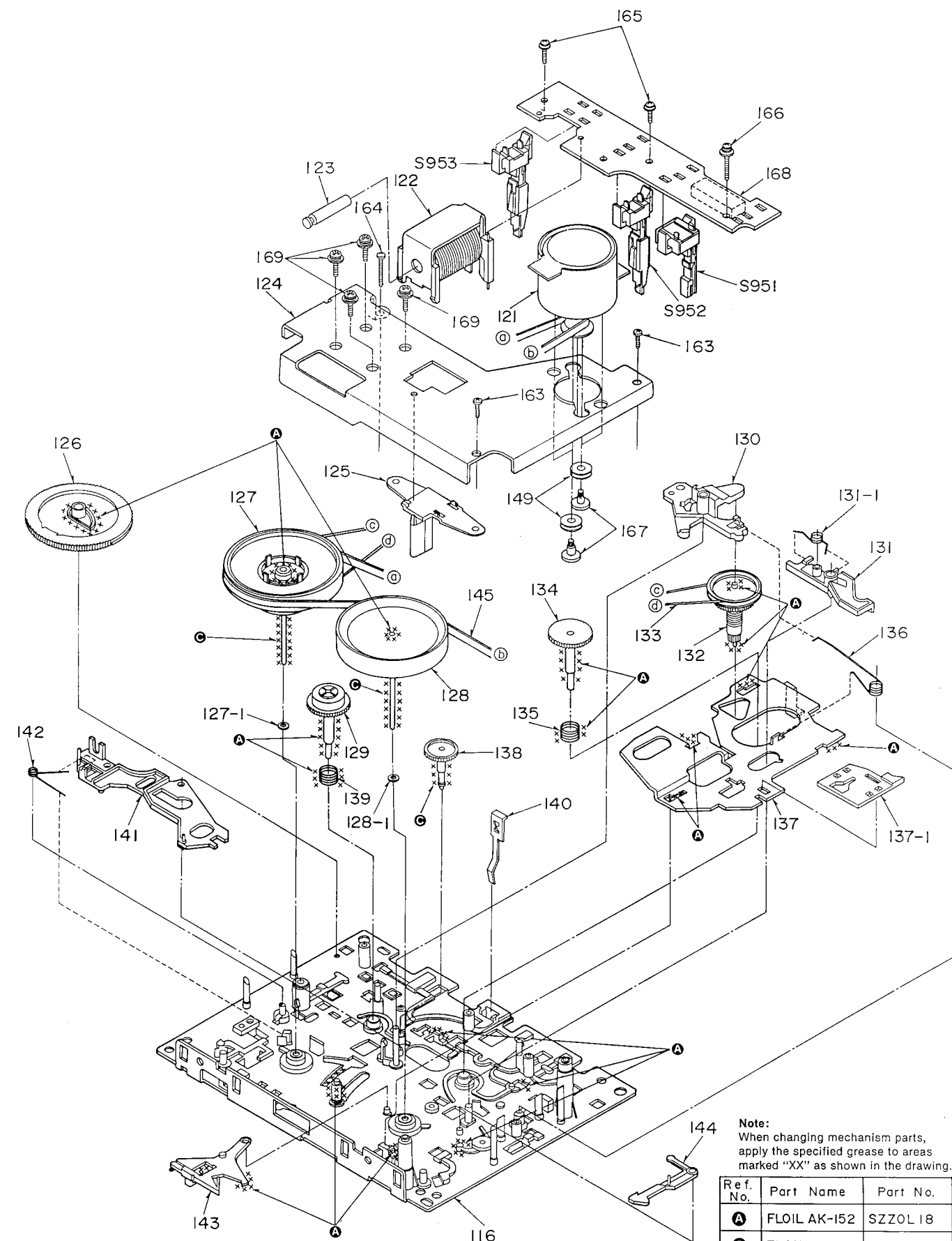
MECHANICAL PARTS LOCATION
(DECK B: Front view)



Note:
When changing mechanism parts,
apply the specified grease to areas
marked "XX" as shown in the drawing.

Ref. No.	Part Name	Part No.
A	FLOIL AK-I52	SZZOL 18
C	FL0IL947P	RZZOL 02

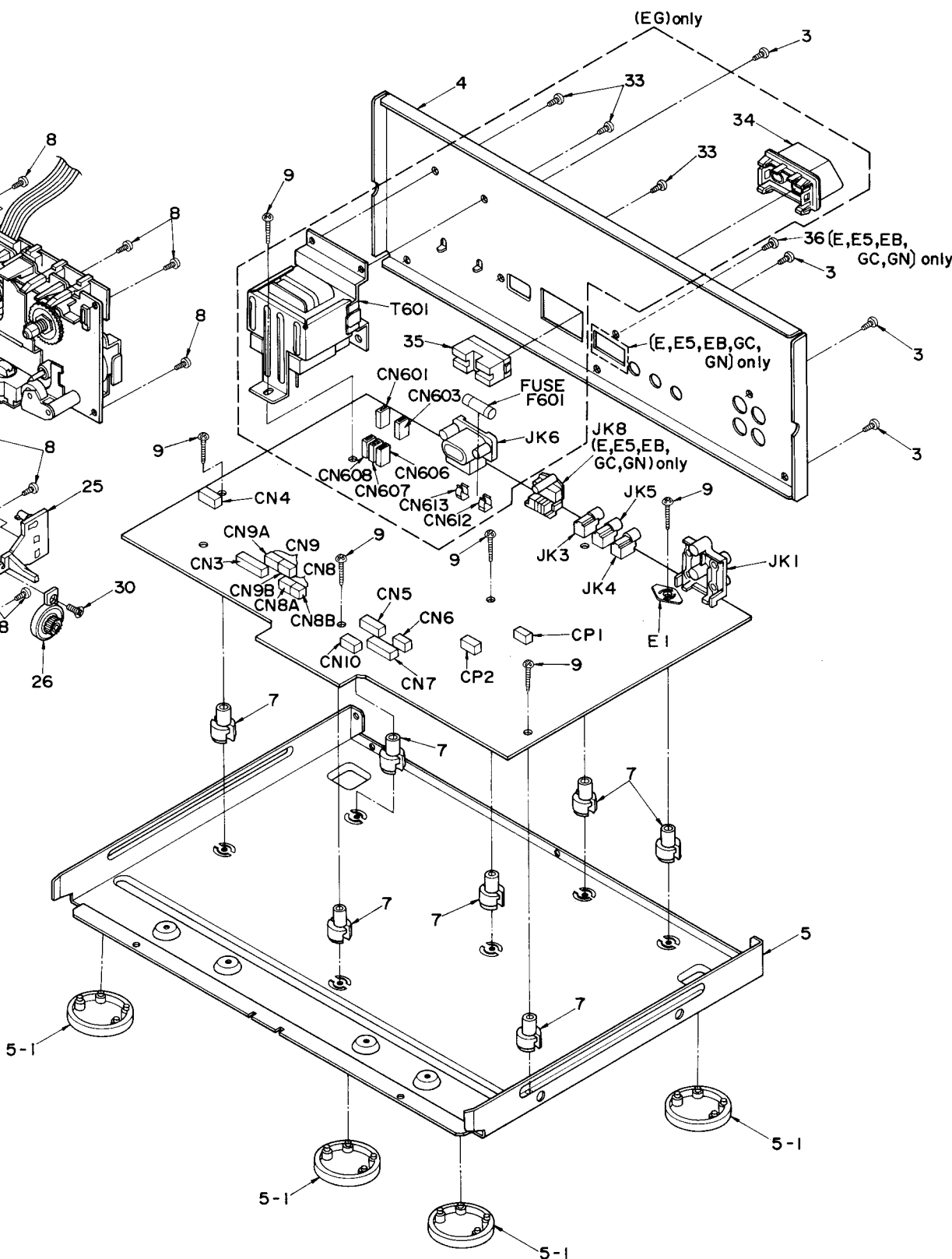
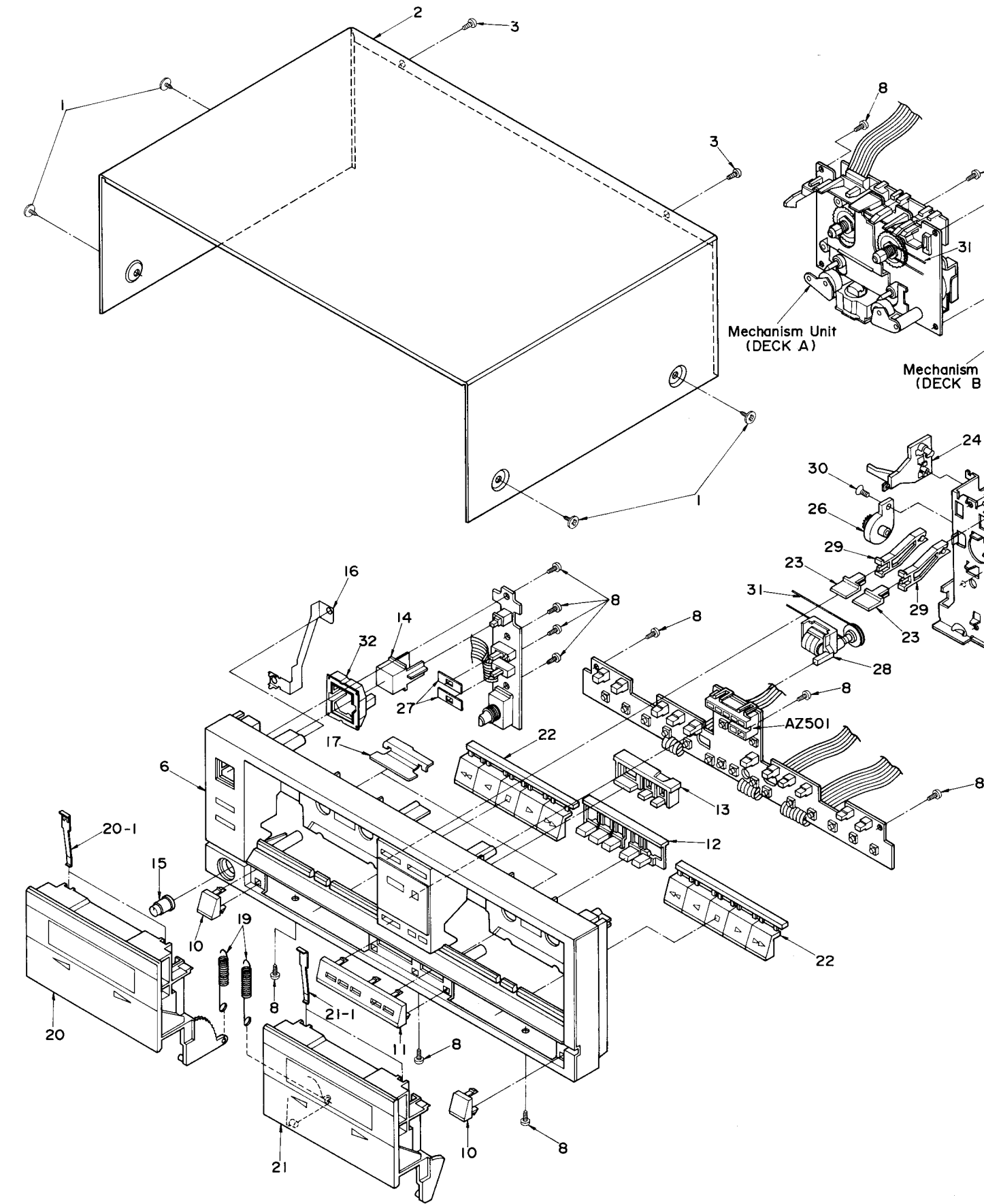
(DECK B: Rear view)



Note:
When changing mechanism parts,
apply the specified grease to areas
marked "XX" as shown in the drawing.

Ref. No.	Part Name	Part No.
A	FLOIL AK-I52	SZZOL 18
C	FL0IL947P	RZZOL 02

CABINET PARTS LOCATION



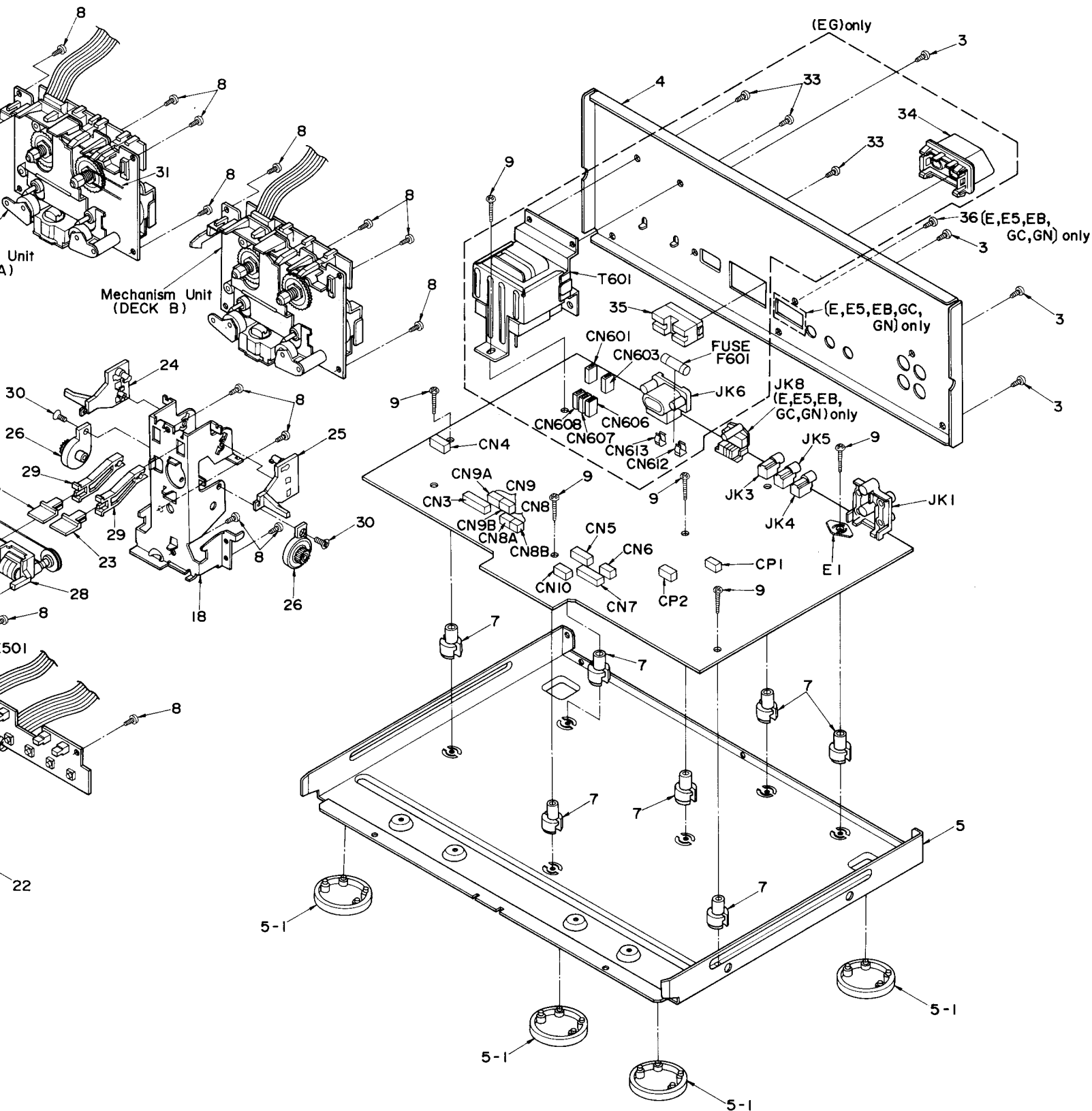
REPLACEMENT PARTS

Notes : * Important Component
* Bracket Parts will be replaced

Ref. No.	Part No.
1	SNE2129-1
2	RKM0024-K
3	XTBS3+8JFZ1
4	RGR0014A-B
4	RGR0014A-D
4	RGR0014B-B
5	RMK0056
5-1	RKA0011
6	RGP0058
6	RGP0059
6	RGP0060
7	SHE187-2
8	XTB3+10JFZ
9	XTB3+20J
10	RGR0073
11	RGR0077
12	RGU0088
13	RGU0089
14	RGU0090
15	RGW0015
16	RJR0015
17	RMA0052-1
18	RMA0064
19	RMB0042
20	RYF0017
20-1	QBP2006A
21	RYF0019
21-1	QBP2006A
22	SBCF13A
23	SBC928
24	SHEF1
25	SHEF2-1
26	SMQX911-KE
27	SHR6076
28	SJN29
29	SUBF3
30	XTS3+8J
31	SMQ20024
32	FMRO109
33	XTBS3+8JFZ1
34	SJS9333A
35	SJS9333B
36	XTBS3+8JFZ1
P1	RPG0124

REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Remarks columns specify the area. (Refer to the first page for area.)
Parts without these indications can be used for all areas.



Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
1	SNE2129-1	SCREW		P1	RPG0276	CARTON BOX	(EB)
2	RKM0024-K	CABINET		P2	RPN0183A	RAD, FRONT	(E, E5, EG, GC, GN)
3	XTBS3+8JFZ1	SCREW		P2	RPN0165A	RAD, FRONT	(EB)
4	RGR0014A-B	REAR PANEL	(EB)	P3	RPN0183B	PAD, BACK	(E, E5, EG, GC, GN)
4	RGR0014A-D	REAR PANEL	(E, E5, GC, GN)	P3	RPN0165B	PAD, BACK	(EB)
4	RGR0014B-B	REAR PANEL	(EG)	P4	SPSD152	PAD, ACCESSORIES	(E, E5, EG, GC, GN)
5	RMK0056	BOTTOM BOARD ASS'Y		P4	SPS5303	PAD, ACCESSORIES	(EB)
5-1	RKA0011	FOOT		P5	SPP753	PROTECTION COVER	
6	RGP0058	FRONT PANEL ASS'Y	(E, E5, GC, GN)			ACCESSORIES	
6	RGP0059	FRONT PANEL ASS'Y	(EB)				
6	RGP0060	FRONT PANEL ASS'Y	(EG)				
7	SHE187-2	HOLDER		A1	RQF0181	INSTRUCTION MANUAL	(E, E5)
8	XTB3+10JFZ	SCREW		A1	RQF0182	INSTRUCTION MANUAL	(EG)
9	XTB3+20J	SCREW		A1	RQF0183	INSTRUCTION MANUAL	(GN)
10	RGK0073	ORNAMENT, BUTTON (B)		A1	RQF0185	INSTRUCTION MANUAL	(GC)
11	RGK0077	ORNAMENT, BUTTON (A)		A1	RQF0268	INSTRUCTION MANUAL	(EB)
12	RGU0088	BUTTON, DOLBY		A2	SFDAC05E03	POWER CORD	(EG) Δ
13	RGU0089	BUTTON, EDIT		A3	RFA006	CORD	
14	RGU0090	BUTTON, POWER		A4	SJP2257T	CORD	
15	RGW0015	KNOB, REC LEVEL		A5	REX0036	FLAT CABLE (TO AMPLIFIER)	(E, E5, EB, GC, GN)
16	RJR0015	GND PLATE					
17	RMA0052-1	BRACKET					
18	RMA0064	EJECT BRACKET					
19	RMB0042	EJECT SPRING					
20	RYF0017	CASSETTE HOLDER (DECK A)					
20-1	QBP2006A	SPRING, TAPE PRESSURE					
21	RYF0019	CASSETTE HOLDER (DECK B)					
21-1	QBP2006A	SPRING, TAPE PRESSURE					
22	SBCF13A	BUTTON, OPERATION					
23	SBC928	BUTTON, EJECT					
24	SHEF1	EJECT LEVER (L)					
25	SHEF2-1	EJECT LEVER (R)					
26	SMQX911-KE	DAMPER GEAR ASS'Y					
27	SHR6076	ORNAMENT					
28	SJN29	TAPE COUNTER					
29	SUBF3	EJECT ROD					
30	XTS3+8J	SCREW					
31	SMQ20024	COUNTER BELT					
32	RMR0109	BUTTON GUIDE					
33	XTBS3+8JFZ1	SCREW	(EG)				
34	SJS9333A	AC OUTLET COVER	(EG)				
35	SJS9333B	AC OUTLET	(EG) Δ				
36	XTBS3+8JFZ1	SCREW	(E, E5, EB, GC, GN)				
		PACKING MATERIAL					
P1	RPG0124	CARTON BOX	(E, E5, EG, GC, GN)				