ORDER NO. AD9106170C2

Service Manual

Cassette Deck

Dolby NR-Equipped Stereo Cassette Deck

RS-BX707

DOLBY B·C NR HX PRO*

Color

(K)... Black Type

Area

Country Code	Area	Color
(EB)	Great Britain.	(K)
(EG)	F.R. Germany and Italy./Continental Europe.	

*HX Pro headroom extension originated by Bang Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation.
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RS-TR555 MECHANISM SERIES (AR350)

SPECIFICATIONS

■ CASSETTE DECK SECTION

Deck system Stereo cassette deck
Track system 4-track, 2-channel
Recording system AC bias
Bias frequency 80 kHz
Erasing system AC erase
Heads
Recording head [Permalloy (Combination)]×1
Playback head [Permalloy (Combination)]×1
Erasing head (Double-gap ferrite)×1
Motors
Capstan drive (Quartz DD motor)×1
Reel table drive (DC motor)×1
Cassette holder open/close (DC motor)×1
Tape speed 4.8 cm/sec. (1⅞ ips)
Wow and flutter 0.05% (WRMS)
±0.14% (DIN)
Fast forward and rewind time
Approx. 100 seconds with C-60 cassette tape
Frequency response (Dolby NR off)
NORMAL 30 Hz~17 kHz, ±3 dB
20 Hz~18 kHz (DIN)
CrO_2 30 Hz~18 kHz, ±3 dB
20 Hz~19 kHz (DIN)
METAL 30 Hz~19 kHz, ±3 dB
20 Hz~20 kHz (DIN)
S/N (signal level=max recording level, CrO_2 type tape)
NR off 57 dB (A weighted)
Dolby B NR on 66 dB (CCIR)
Dolby C NR on 74 dB (CCIR)
Input sensitivity and impedance
LINE IN 60 mV/47 kΩ
Output voltage and impedance
LINE OUT 400 mV/800Ω
HEADPHONES 125 mV/8Ω
(Load impedance 8Ω~600Ω)

■ GENERAL

Power consumption 20 W
Power supply AC 50 Hz/60 Hz, 230 V–240 V
Dimensions (W×H×D) 430×135×300 mm
(16 15/16"×5 5/16"×11 13/16")
Weight 5.0 kg (11 lb.)

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

Technics

■ CONTENTS

※ **TECHNICAL INFORMATION**

This technical information is located on pp 45-51 of the RS-B555 Service Manual (Order No. AD8907231C5).
Therefore, refer to that Service Manual.
There is a few diferences in this schematic diagram.
But this is the same as RS-B555 basically.

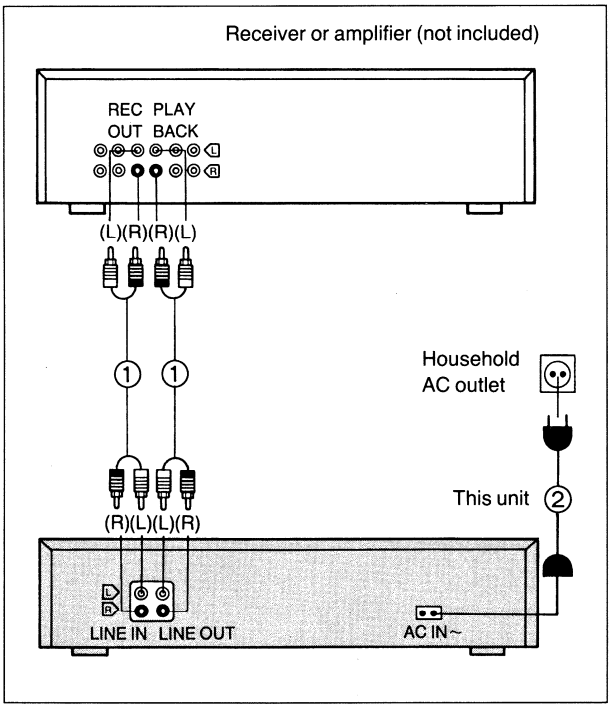
■ CONNECTIONS

Make connections in the numbered sequence by using the included cables.

① Connect the stereo connection cables.

Stereo connection cable	White (L) Red (R)

② Connect the AC power supply cord.



AC power supply cord (②)

The configuration of the AC outlet and AC power supply cord differs according to area.

Placement hints

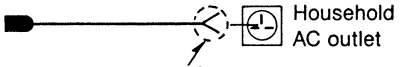
If this unit is placed near a receiver or a tuner, a "hum" noise may be heard during tape playback, recording, or AM reception of the receiver or the tuner.
If this occurs, leave as much space as possible between the units, or place them where is the least amount of "hum".

Note:

This unit is a precision instrument. Be sure to place it on a flat surface.

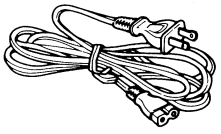
For (EB) area

Cut off and dispose of the plug and replace with a suitable plug.

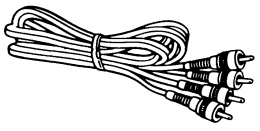


Fit a suitable plug to the AC power supply cord.

■ ACCESSORIES



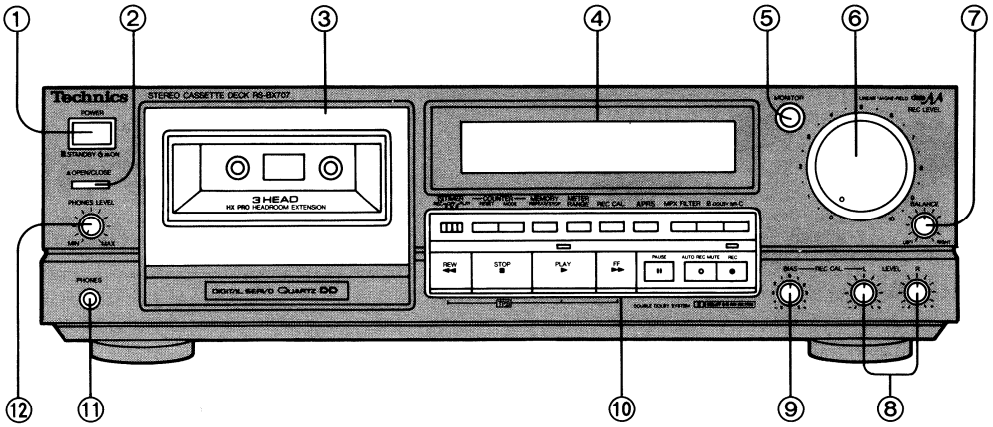
AC power supply cord
[(SFDAC05E03)..... (EG)
(SJA193)..... (EB)] ..... 1 pc.



Stereo connection cables
(SJP2249-3) ..... 2 pcs.

Note: Configuration of AC power supply cord differs according to area.

■ LOCATION OF CONTROLS



Control section I

① **Power "STANDBY ⏻/ON" switch (POWER ▮ STANDBY ⏻ ▬ ON)**
This switch switches ON and OFF the secondary circuit power only. The unit is in the "standby" condition when this switch is set to the STANDBY ⏻ position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

② **Open/close button (▲ OPEN/CLOSE)**
This button can be used to open or close the cassette holder.

③ **Cassette holder**

④ **Indicators section**
(Refer to page 4.)

⑤ **Monitor switch (MONITOR)**
In order to monitor the tape (check the recording condition), the sound on the tape (immediately after recording) and the sound of the sound source (the original sound, before recording) can be alternately selected by pressing this button. (The corresponding indicator will illuminate.)

⑥ **Recording-level control (REC LEVEL)**
This control can be used to regulate the recording level.

⑦ **Recording-balance control (BALANCE)**
This control can be used to balance the left and right sound levels during recording.

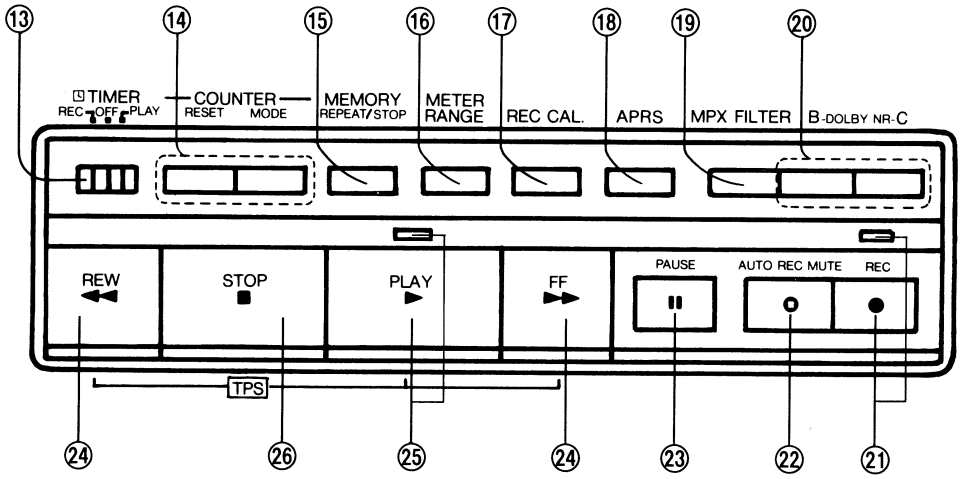
⑧ **Calibration-level control (REC CAL LEVEL)**
The sensitivity differences (high or low recording levels) for each tape type can be corrected by using these controls.

⑨ **Calibration-bias control (REC CAL BIAS)**
The frequency response for each tape type can be equalized by using this control.

⑩ **Operation section**
(Refer to "Control section II" on pages 3, 4.)

⑪ **Headphones jack (PHONES)**

⑫ **Headphones volume control (PHONES LEVEL)**



Control section II

⑬ Timer switch (◳ TIMER)
This switch is used to automatically begin a tape recording or tape playback at a certain time, selected by a timer (not included).

⑭ Counter buttons (COUNTER RESET, MODE)
RESET: This button can be used to reset the tape/linear counter indication to "000_/00.00".
MODE: This button can be used to select the tape/linear counter indication.

⑮ Memory-mode button (MEMORY REPEAT/STOP)
REPEAT: This button can be used to set this unit to the "A–B repeat" mode.
STOP: This button can be used to rewind the tape to the preset "000_/00.00" point when the rewind (◀◀) button is pressed.

⑯ Meter-range selector (METER RANGE)
This selector can be used to select the meter-range display of the input level meter.

⑰ Calibration selector (REC CAL)
This selector can switch the input level display between the level adjustment indicator and bias adjustment indicator.

⑱ APRS button (APRS)
This button can be used to hold the peak level while monitoring the input sound.

⑲ Multiplex filter switch (MPX FILTER)
This prevents the Dolby NR circuit from operating in error when FM stereo broadcasts are recorded using the noise reduction function.

⑳ Dolby noise-reduction buttons (B-DOLBY NR-C)
These buttons can be used to reduce the hiss noise that is characteristic of tape. This unit is provided with both the Dolby B type and C type noise-reduction systems.

㉑ Record button and indicator (● REC)
This button can be used to change the tape deck to the recording stand-by mode.

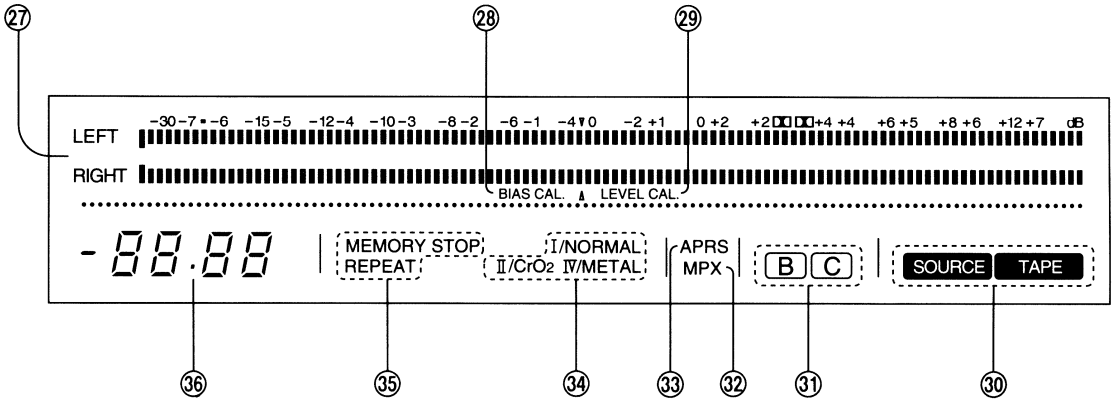
㉒ Automatic-record-muting button (▢ AUTO REC MUTE)
This button can be used to make a silent interval on the tape being recorded on tape deck.

㉓ Pause button (❚❚ PAUSE)
This button can be used to temporarily stop the tape playback or recording of tape deck.

㉔ Rewind/fast-forward/search buttons (◀◀ REW, ▶▶ FF, TPS)
These buttons can be used to fast forward or rewind the tape, or to easily search for the tune's beginning of the tape quickly.

㉕ Playback button and indicator (▶ PLAY)
This button can be used to start the playback or recording of the cassette.
(The tape will then begin moving in the left-to-right direction.)
When this indicator illuminates steadily, it indicates that this tape deck is in the playback mode or the recording mode.
When it flashes continually, this is an indication that this tape deck is in the pause mode or the recording stand-by mode.

㉖ Stop button (■ STOP)
This button can be used to stop tape movement.



Indicators section

㉗ Input level meter
During playback, this meter indicates the level of the recorded sound.
During recording, it indicates the level being recorded, adjusted by the recording-level control.

㉘ Bias adjustment indicator (BIAS CAL.)
Indicates that the bias can now be adjusted.

㉙ Level adjustment indicator (LEVEL CAL.)
Indicates that the recording level can now be adjusted.

㉚ Monitor indicators (SOURCE, TAPE)
Each indicator illuminates to show which of the monitor was set by the monitor switch.

㉛ Dolby noise-reduction indicators (B, C)
Each indicator illuminates to show the type of Dolby noise-reduction system selected by pressing one of the Dolby noise-reduction buttons.

㉜ Multiplex filter indicator (MPX)
Illuminates to indicate that the multiplex filter is set to "ON".

㉝ APRS indicator (APRS)
Illuminates to indicate that the "APRS" is set to "on" in the recording stand-by mode.

㉞ Tape-select indicators (I/NORMAL, II/CrO_2, IV/METAL)
The type of tape being used will be automatically detected and the indicator will illuminate.

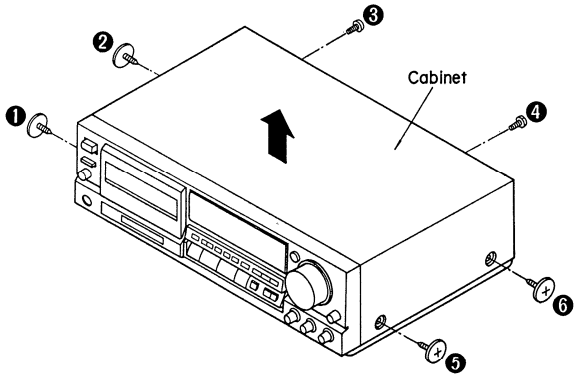
㉟ Memory-mode indicators (MEMORY REPEAT, MEMORY STOP)
Each indicator illuminates to show which of the memory modes was set by the memory-mode button.

㊱ Tape/Linear counter
Indicates the amount of tape movement or elapsed time.

■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the cabinet
Procedure 1	

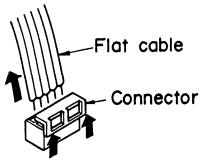


- Remove the 6 screws (❶~❻).

3. Remove the 6 screws (❻~⓫).
4. Remove the 2 connectors (CP1, CP2).
5. Remove the 2 flat cables (CN2P, CN60).
6. Remove the main P.C.B. in the direction of arrow.

How to remove the flat cable

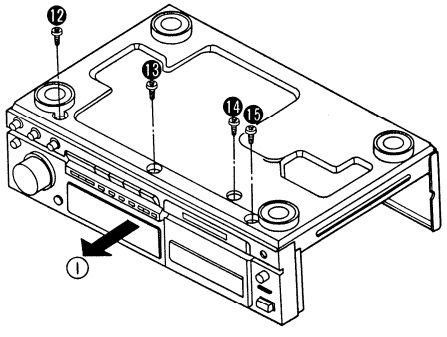
1. Lift the connector.
2. Pull out the flat cable.

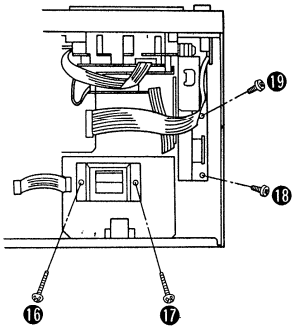


How to check the main P.C.B.

- When checking the soldered surfaces of main P.C.B. and replacing the parts, do as show.

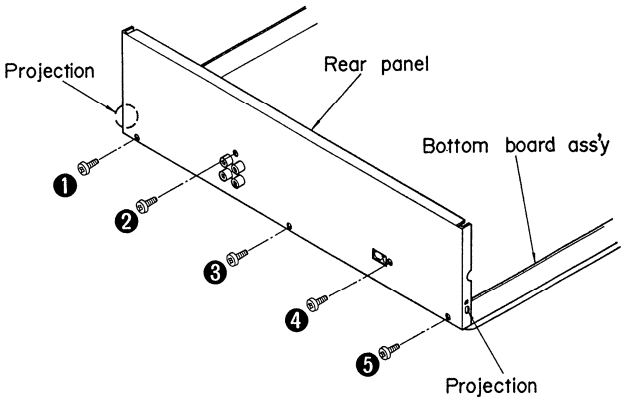
1. Remove the 9 screws (❶, ❸, ❺~⓫) in above figure.
2. Remove the 8 screws (⓬~⓳).
3. Remove the front panel ass'y in the direction of arrow ①.

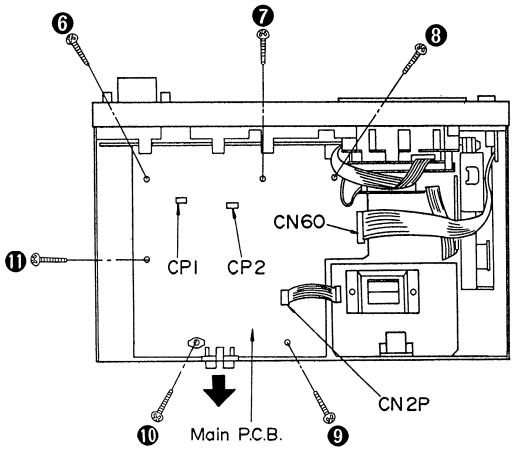




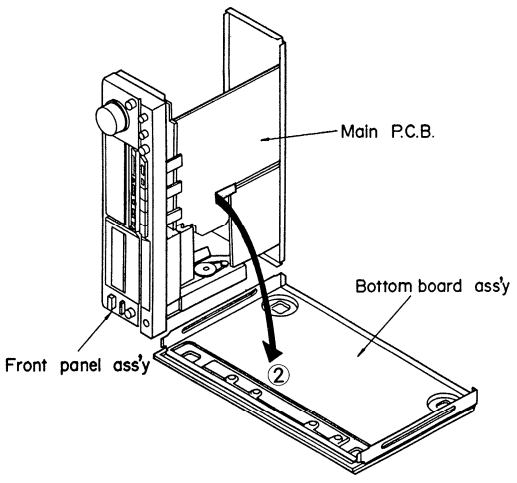
Ref. No. 2	Removal of the main P.C.B.
Procedure 1→2	

1. Remove the 5 screws (❶~❺).
2. Remove the rear panel from the projection of the bottom board ass'y.

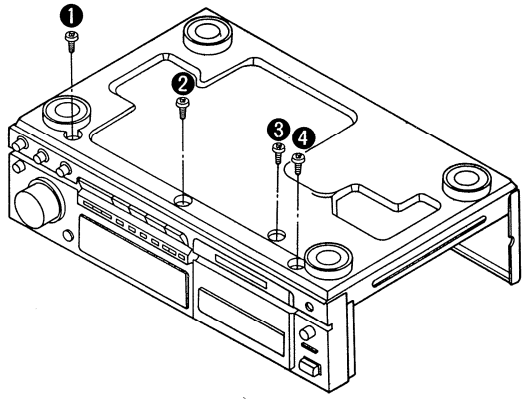




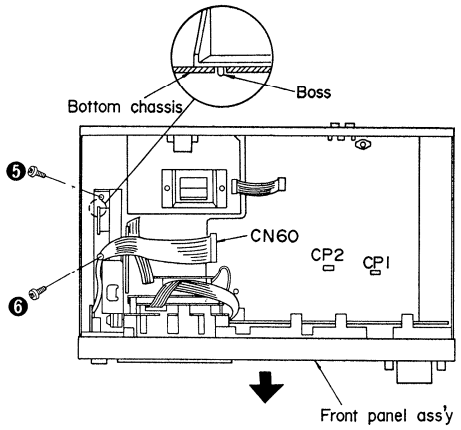
4. Remove the bottom board ass'y in the direction of arrow ②.
5. Reinstall the front panel ass'y to the main P.C.B.



Ref. No. 3	Removal of the front panel ass'y
Procedure 1→3	



1. Remove the 6 screws (❶~❻).

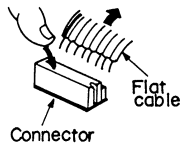


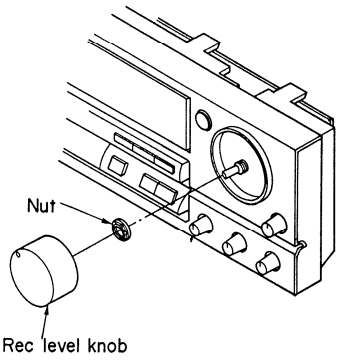
2. Remove the 2 connectors (CP1, CP2).
3. Remove the 1 flat cable (CN60).
4. Remove the boss from bottom chassis.
5. Remove the front panel ass'y in the direction of arrow.

Ref. No. 4	Removal of the FL drive P.C.B.
Procedure 1→3→4	

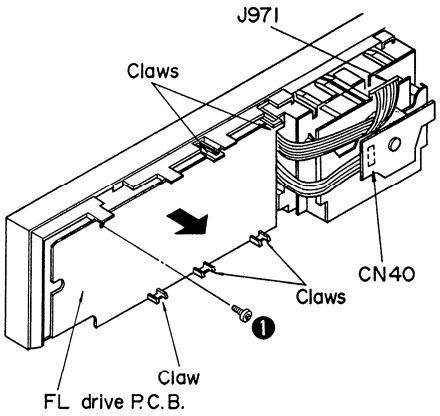
How to remove the flat cable

- Pull out the flat cable while pressing the connector.



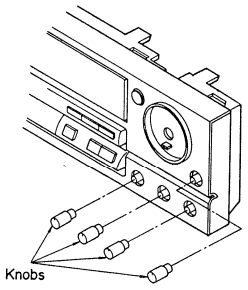


1. Pull out the rec level knob.
2. Remove the nut.

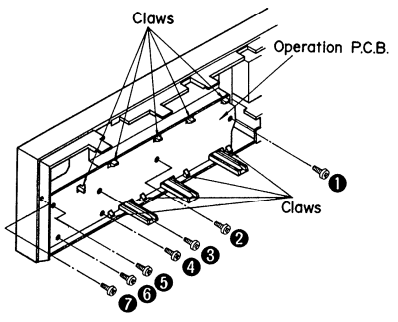


3. Remove the 2 flat cables (CN40, J971).
4. Remove the 1 screw (❶).
5. Release the 5 claws.
6. Remove the FL drive P.C.B. in the direction of arrow.

Ref. No. 5	Removal of the operation P.C.B.
Procedure 1→3→4→5	



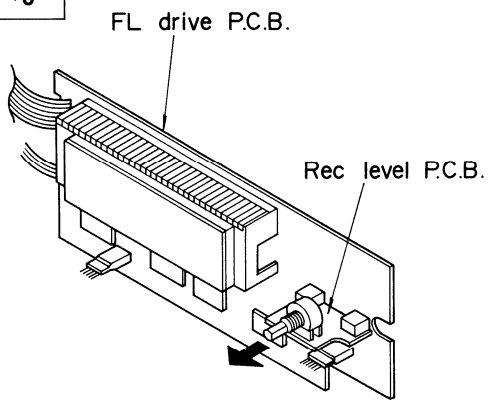
1. Pull out the 4 knobs.



2. Remove the 7 screws (❶~❼).
3. Remove the 9 claws.

Ref. No. 6	Removal of the rec level P.C.B.

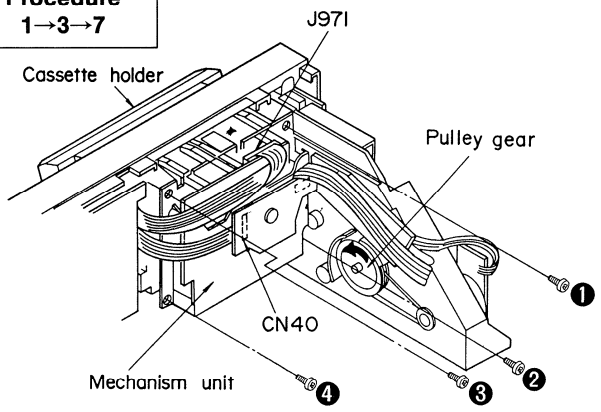
Procedure 1→3→4→6



• Remove the rec level P.C.B. in the direction of arrow.

Ref. No. 7	Removal of the mechanism unit

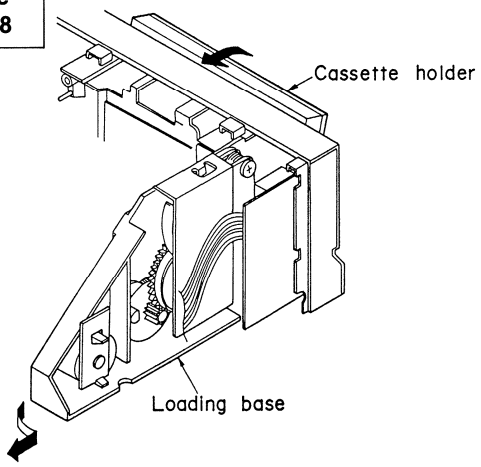
Procedure 1→3→7



1. Turn the pully gear in the direction of arrow, and open the cassette holder.
2. Remove the 2 flat cables (CN40, J971).
3. Remove the 4 screws (❶~❹).

Ref. No. 8	Removal of the loading base

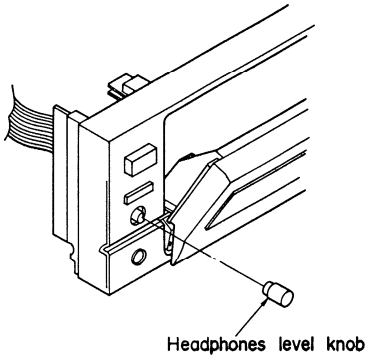
Procedure 1→3→7→8



1. Close the cassette holder.
2. Remove the loading base in the direction of arrow.

Ref. No. 9	Removal of the power switch/ headphones P.C.B.

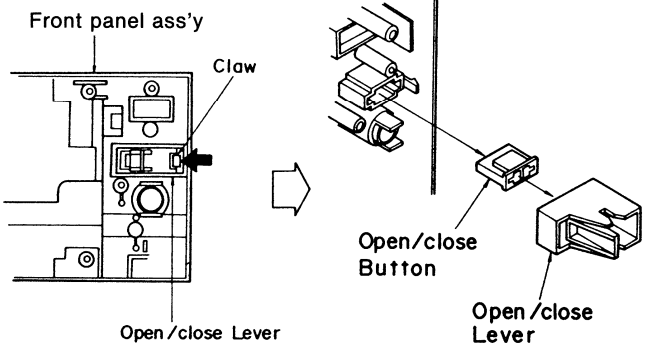
Procedure 1→3→7→8→9



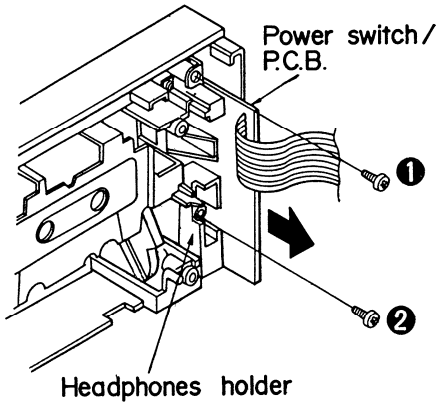
1. Pull out the headphones level knob.

Ref. No. 10	Removal of the open/close lever and open/close button

Procedure 1→3→7→8 →9→10



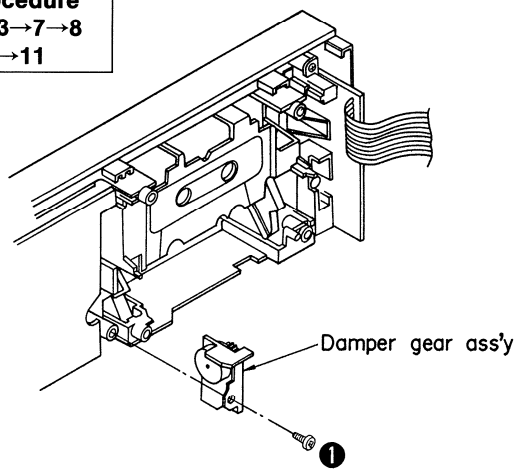
• Release the 1 claw.



2. Remove the 2 screws (❶, ❷).
3. Remove the headphones holder.
4. Remove the power switch/headphones P.C.B. in the direction of arrow.

Ref. No. 11	Removal of the damper gear ass'y

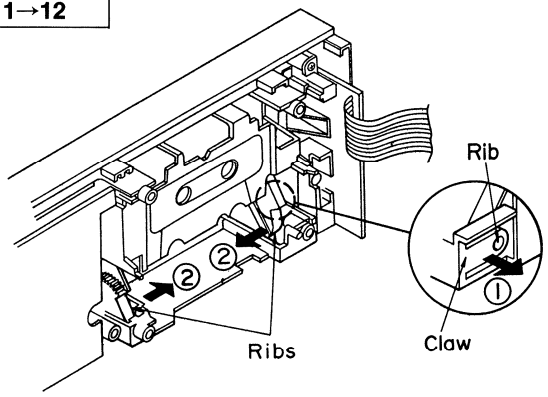
Procedure
1→3→7→8→11



- Remove the 1 screw (❶).

Ref. No. 12	Removal of the cassette holder

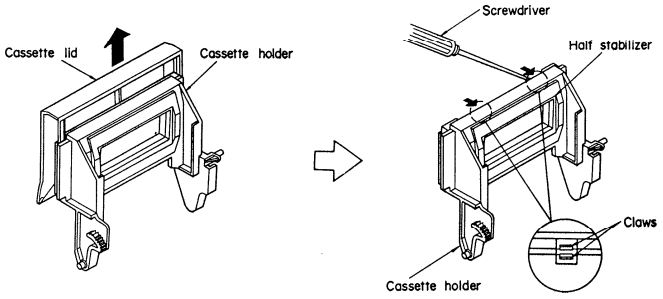
Procedure
1→3→7→8→11→12



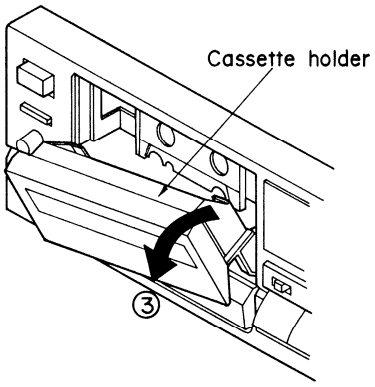
1. Remove the claw in the direction of arrow ①.
2. Remove the ribs in the direction of arrow ②.

Ref. No. 13	Removal of the cassette lid and cassette half stabilizer

Procedure
1→3→7→8→11→12→13



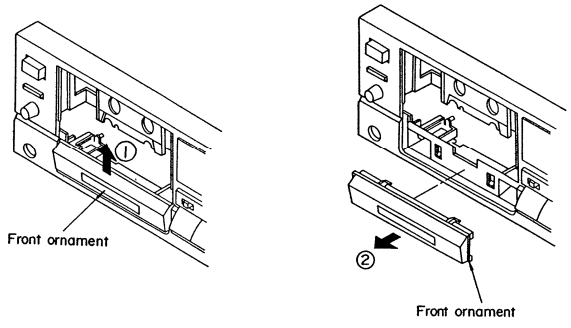
1. Remove the cassette lid in the direction of arrow.
2. Release the 2 claws.



3. Remove the cassette holder in the direction of arrow ③.

Ref. No. 14	Removal of the front ornament

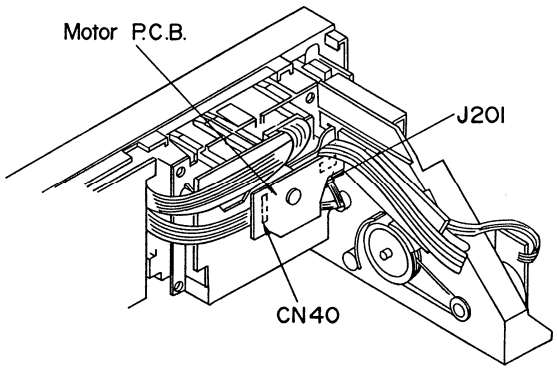
Procedure
1→3→7→8→11→12→14



- Remove the front ornament in the direction of arrow ①, ②.

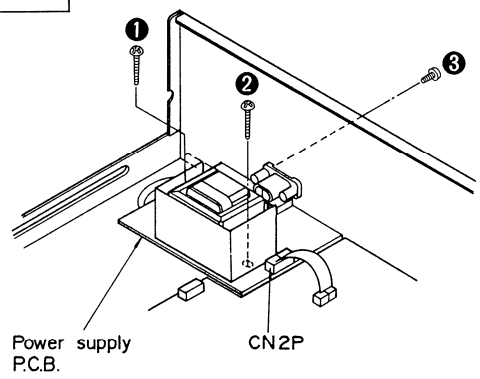
Ref. No. 15	Removal of the motor P.C.B.

Procedure
1→3→15



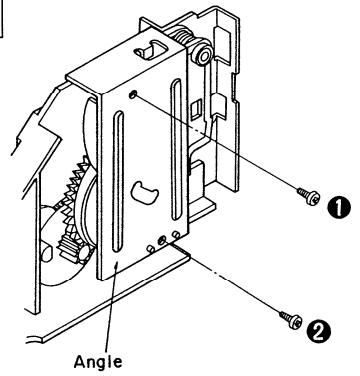
1. Remove the 2 flat cables (CN40, J201).
2. Unsolder the motor terminal.

Ref. No. 16	Removal of the power supply P.C.B.
Procedure 1→16	

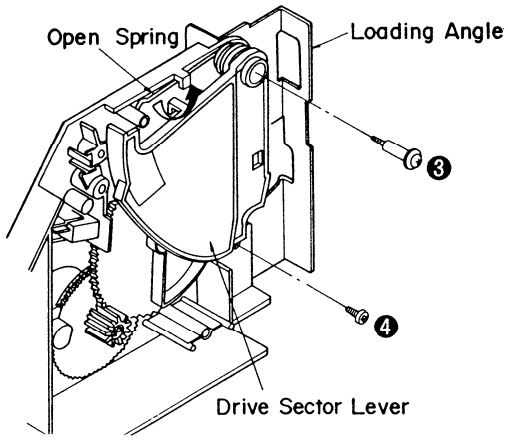


1. Remove the 1 flat cable (CN2P).
2. Remove the 3 screws (❶~❸).

Ref. No. 18	Removal of the drive sector lever and loading angle
Procedure 1→3→7→8 →18	

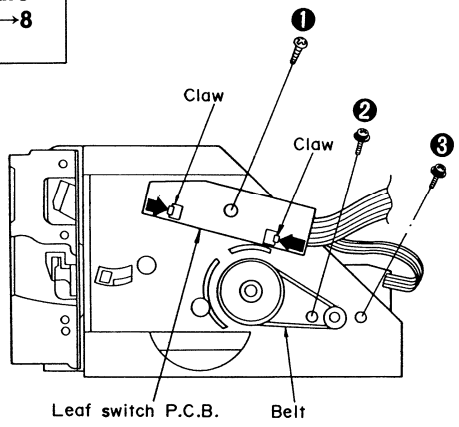


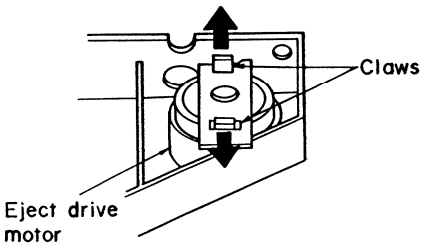
1. Remove the 2 screws (❶, ❷).
2. Remove the angle.



3. Remove the 2 screws (❸, ❹).
4. Remove the loading angle.
5. Remove the open lever spring in the direction of arrow.

Ref. No. 17	Removal of the leaf switch P.C.B. and eject drive motor
Procedure 1→3→7→8 →17	





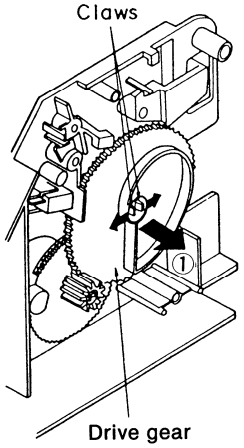
■ Removal of the leaf switch P.C.B.

1. Remove the 1 screw (❶).
2. Release the 2 claws.

■ Removal of the eject drive motor

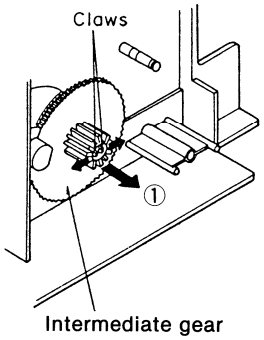
1. Remove the belt.
2. Remove the 2 screws (❷, ❸).
3. Release the 2 claws.

Ref. No. 19	Removal of the drive gear
Procedure 1→3→7→8 →18→19	



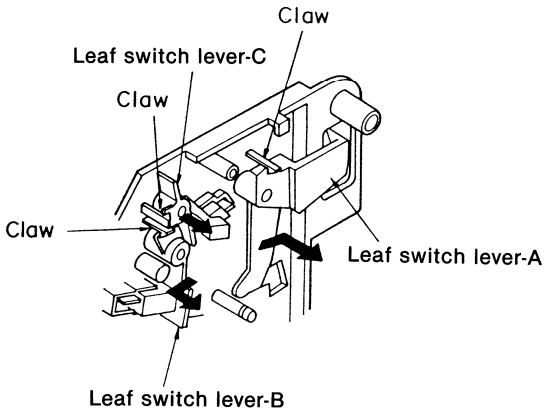
1. Release the 2 claws.
2. Remove the drive gear in the direction of arrow ①.

Ref. No. 20	Removal of the intermediate gear, leaf switch lever-A, leaf switch lever-B, and leaf switch lever-C
Procedure 1→3→7→8 →18→19→20	



■ Removal of the intermediate gear

1. Release the 2 claws.
2. Remove the intermediate gear in the direction of arrow ①.



■ Removal of the leaf switch lever-A

- Release the 1 claw.

■ Removal of the leaf switch lever-B

- Release the 1 claw.

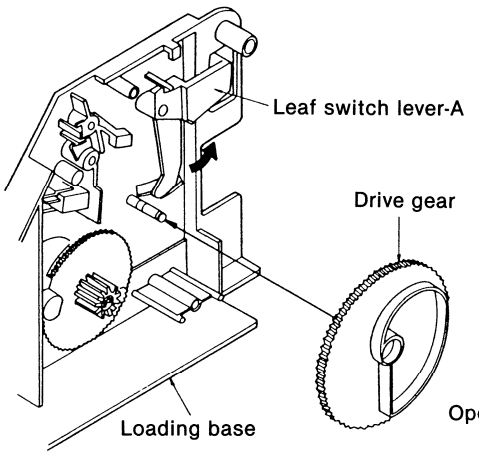
■ Removal of the leaf switch lever-C

- Release the 1 claw.

Ref. No. 21	Installation of the drive gear and drive sector lever
Procedure 21	

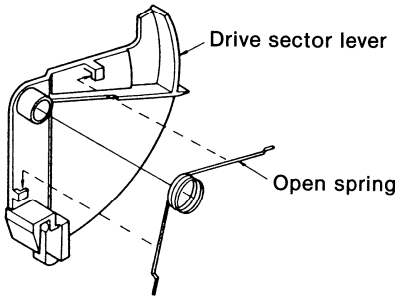
■ Installation of the drive gear

1. Push the leaf switch lever A in the direction of arrow.
2. Place the drive gear as shown below and then install it in the loading base.

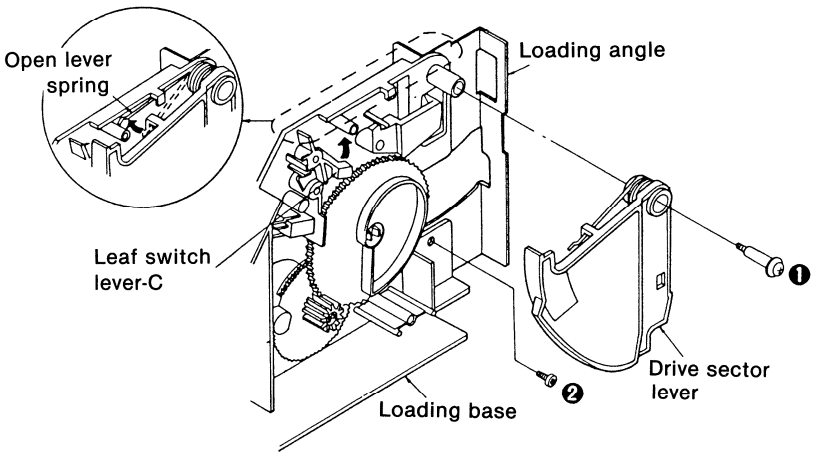


■ Installation of the drive sector lever

1. Temporarily install the open spring in the drive sector lever.



2. Install the loading angle in the loading base and then secure it with the 1 screw (❷).
3. Push the leaf switch lever C in the direction of arrow.
4. Secure the drive sector lever with 1 screw (❶).
5. Engage the open spring in the claw of the loading base.



■ MEASUREMENT AND ADJUSTMENT METHODS

Measurement Condition

- Rec. level control; Maximum
- Timer switch; Off
- MPX filter switch; off
- Calibration-bias control; Center
- Rec. balance control; Center
- Calibration-level control; Center
- Dolby NR switch; Off
- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature 20±5°C (68±9°F)

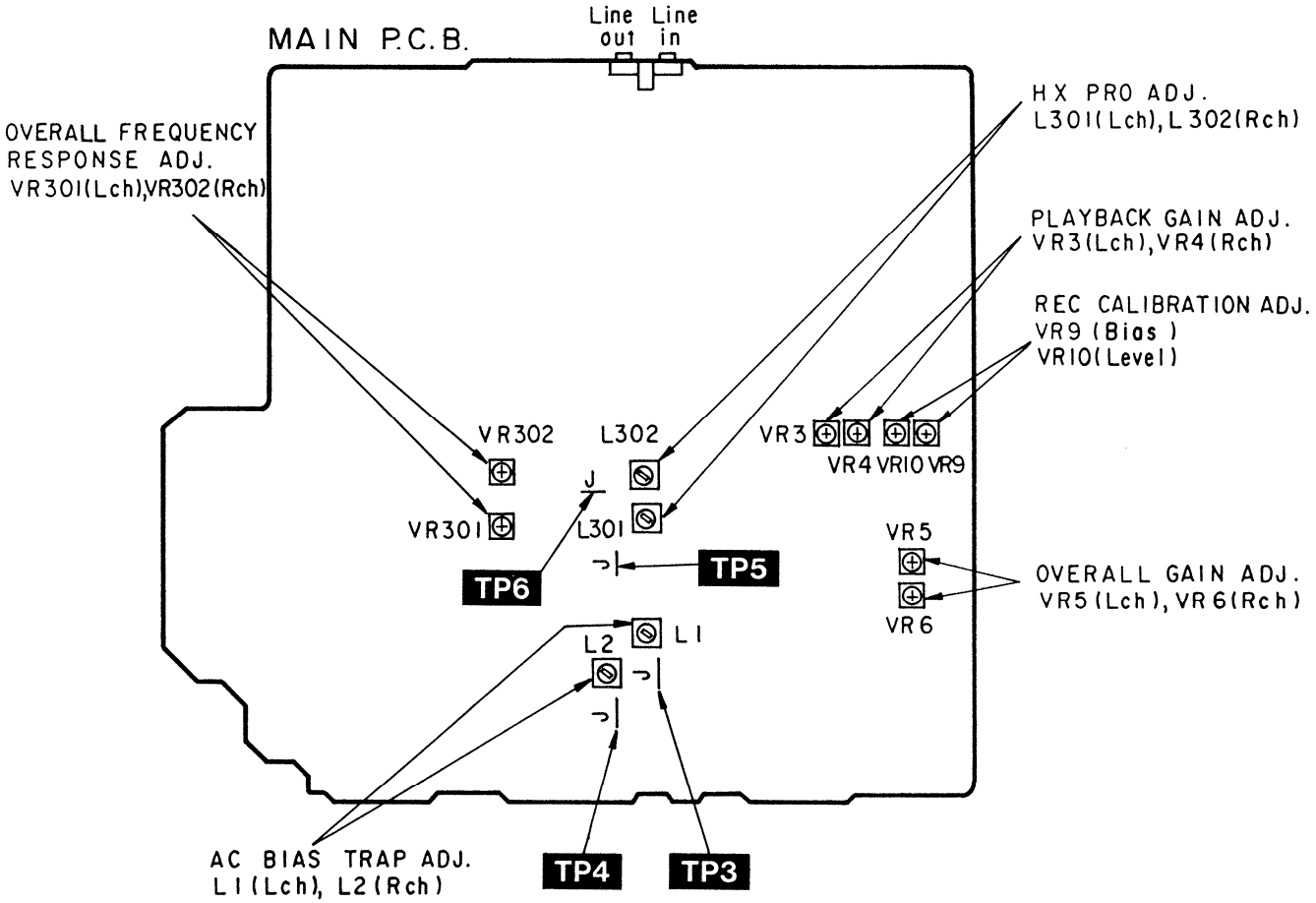
Measuring Instrument

- EVM (Electronic Voltmeter)
- Oscilloscope
- Digital frequency counter
- AF oscillator
- ATT (Attenuator)
- 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
  CrO_2 reference blank tape; QZZCRX
  Metal reference blank tape; QZZCRZ

• Adjustment Points



HEAD AZIMUTH ADJUSTMENT

1.Playback the azimuth adjusment portion (8 kHz, -20 dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the output of the R-CH are maximized.
2.Perform the same adjustment in the play mode.
3. **After the adjustment, apply screwlock to the azimuth adjusting screw.**

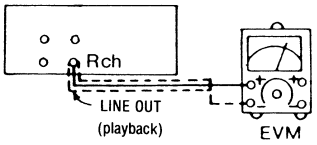


Fig.1

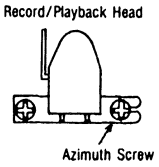


Fig.2

PLAYBACK GAIN ADJUSTMENT

1.Playback the gain adjusted portion (315 Hz, 0 dB) of the test tape (QZZCFM).
2.Adjust **VR3** (L-CH) and **VR4** (R-CH) so that the output is within the standard value.

Standard value: 0.4V±0.5dB

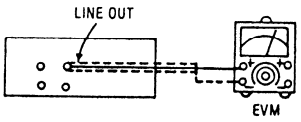


Fig. 3

PLAYBACK FREQUENCY RESPONSE

1. Playback the frequency response portion (315Hz, 12.5kHz~63Hz, −20dB) of the test test (QZZCFM).
2. Assure that the frequency response is within the range shown in **Fig. 5** for both L-CH and R-CH.

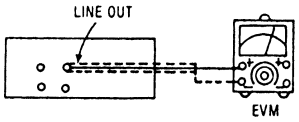


Fig. 4

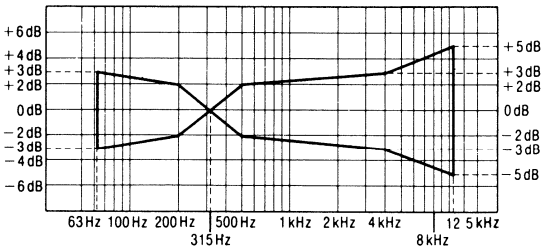


Fig. 5

AC BIAS TRAP ADJUSTMENT

1. Insert the Metal blank test tape (QZZCRZ) and set the unit to the Record mode.
2. Adjust **L1** (L-CH) [[**L2** (R-CH)]] so that the output voltage between **TP3** (**TP4**) and GND is less than the minimum value.

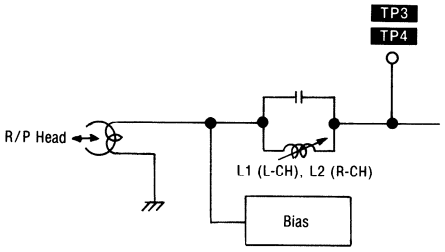


Fig. 6

HX PRO ADJUSTMENT

1. Insert the Metal blank tape (QZZCRZ) and set the unit to the Record Pause mode.
2. Connect a DC voltmeter across **TP5** (L-CH) and GND, **TP6** (R-CH) and GND.
3. Adjust **L301** (L-CH) and **L302** (R-CH)so that the output is the minimum value.

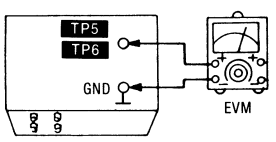


Fig. 7

OVERALL FREQUENCY RESPONSE

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 **VR301** (L-CH) and **VR302** (R-CH) so that the frequency level is within the standard range.
   - Level up in high frequency range .....Increase the bias current.
   - Level down in high frequency range ...Decrease the bias current.
7. Repeat steps 2~6 above using the CrO_2 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**.

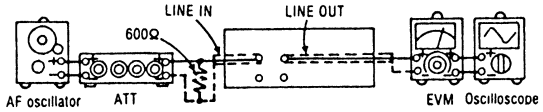


Fig. 10

Normal Overall frequency response chart (NR OUT)

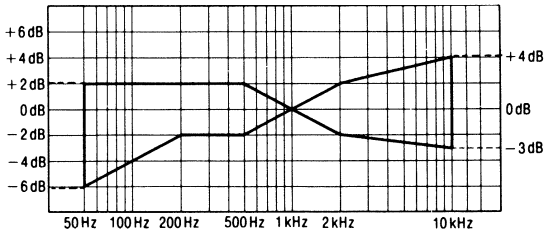


Fig. 8

CrO_2·Metal Overall frequency response chart (NR OUT)

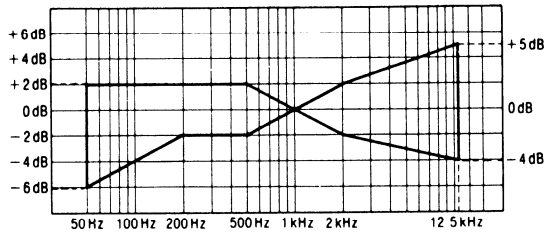


Fig. 9

OVERALL GAIN ADJUSTMENT

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 **VR5** (L-CH) and **VR6** (R-CH).
6. Repeat the step 2~5 above until the output is within the standard value.

Standard value: 0.4V±0.5dB

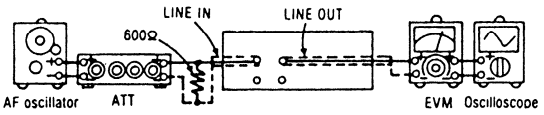


Fig. 11

REC CAL. ADJUSTMENT

1. After the overall frequency characteristics and over all gain are adjusted, insert the test tape (QZZCRA) in the unit and then set the recording mode (REC/PLAY).

— Level Adjustment —

2. First, press the REC CAL button. (The indication "LEVEL CAL" will appear in the FL meter.)
3. Adjust **VR10** so that the level of the right and left channels reach the ⧗ mark as shown.

— Bias Adjustment —

4. Next, press the REC CAL button again. ("BIAS CAL" will be displayed in the FL meter.)
5. Adjust **VR9** so that the indication of the left channel level reaches the ⧗ mark as shown.

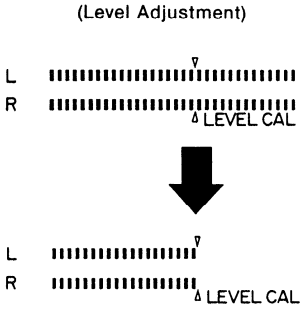


Fig. 12

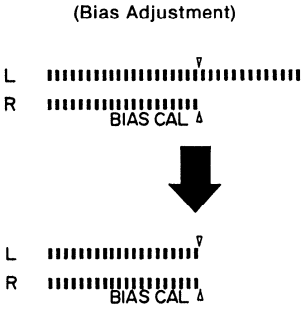


Fig. 13

Note: Unless the overall frequency and overall gain are adjusted so that the L/R channel leverls are the same, there will be a difference between the L/R channels levels in the level and bias adjustments.

■ TERMINAL FUNCTION OF IC'S

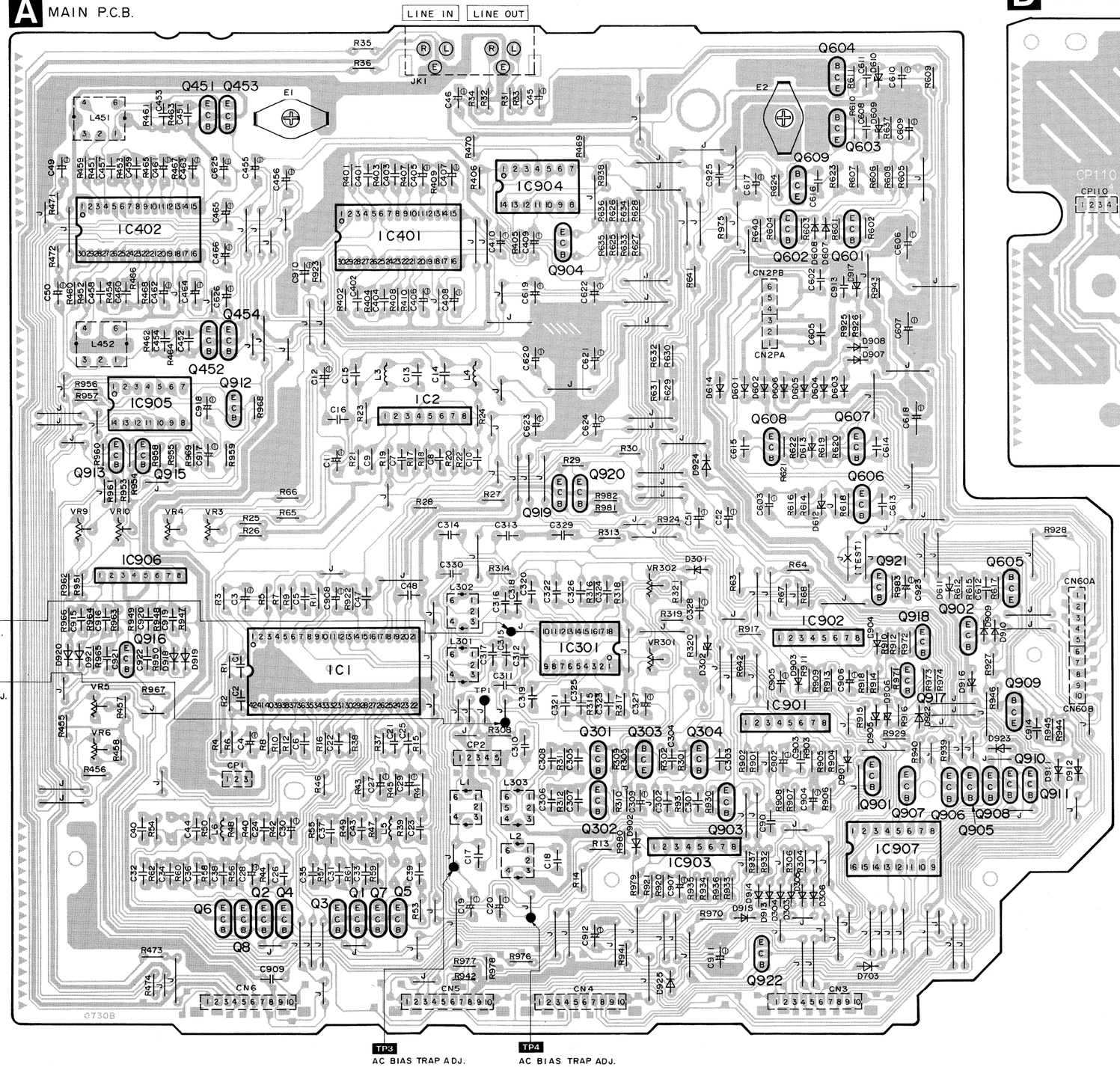
• IC501 (M50942-518SP): MICROCOMPUTER (This microcomputer is used for mechanical/FL DRIVE operation.)

Pin No.	Mark	I/O Division	Function
1	V_{REF}	I	A/D converter reference voltage (Connected to AV_{CC})
2	KEY1	I	Key switch input STOP, FF, REW, PLAY, REC, PAUSE, Dolby, B.C, MPX, TPLAY, TREC
3	KEY2	I	Key switch input C-RESET, C-MODE, M-RANGE, MEMORY, ARM, APRS, RECAL
4	MLCH	I	Lch indication level input
5	MRCH	I	Rch indication level input
6	APRS	I	Input Vol. position det. for APRS
7	R. INH	I	Motor switch, rec. inh. switch motor switch OFF: 0V, Rec. OK: 1.5V, NG: 5V
8	TAPE	I	OPEN switch, ATS switch input OPEN: 0V, Nor: 1.1V, CrO_2: 2.4V, Metal: 5V
9	RPT	I	Reel table (take up side) rotary det.
10	CAPM	O	Capstan motor ON/OFF control ON: "H", OFF: "L"
11	RMR	O	Reel motor ON/OFF control REW, R • TPS: "H", Others: "L"
12	RMF	O	Reel motor ON/OFF control (REC) PLAY, FF, F • TPS: "H", Others: "L"
13	T. SOL	O	Trigger solenoid ON/OFF control ON: "H", OFF: "L"
14	B. SOL	O	Brake solenoid ON/OFF control FF/REW/TPS: "H", Others: "L"
15	C/R SOL	O	Brake solenoid keep and reel motor speed select FF/REW/TPS: "H", Others: "L"
16	EJECT R	O	Eject motor ON/OFF control OPEN: "H", others: "L"
17	EJECT F	O	Eject motor ON/OFF control CLOSE: "H", others: "L"
18	DMT	O	Line out muting control ON: "H", OFF: "L"
19	RMT	O	Rec amp muting control ON: "H", OFF: "L"

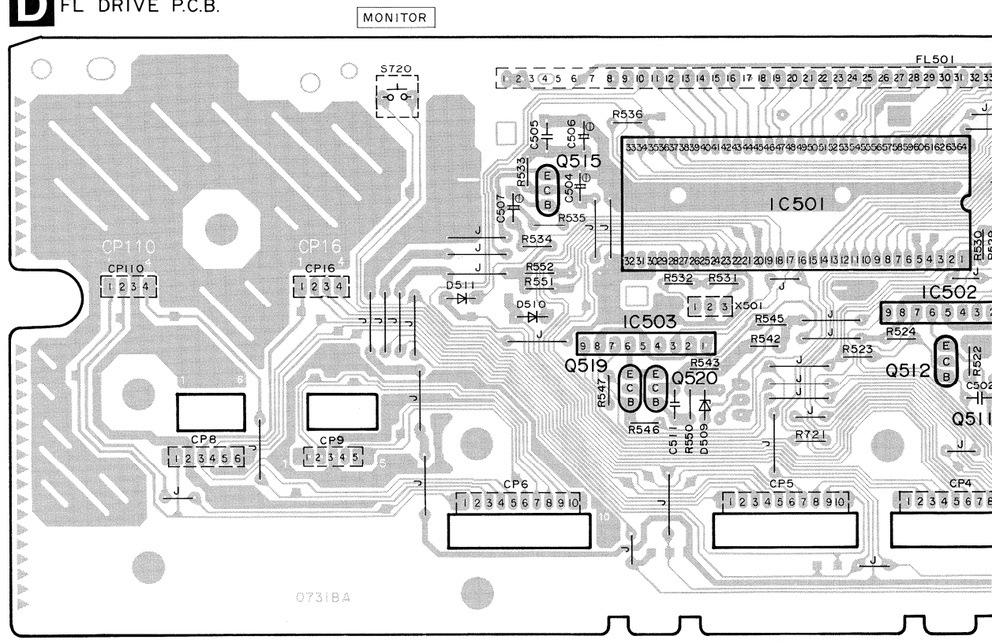
Pin No.	Mark	I/O Division	Function
20	CLOCK	O	Serial clock for amp, logic control ($\overline{MPX}$, $\overline{C}$, $\overline{B}$, $\overline{T/S}$, $\overline{PLAY}$, $\overline{REC}$, CALF, $\overline{OSCON}$)
21	DATA	O	Serial clock for amp, logic control ($\overline{MPX}$, $\overline{C}$, $\overline{B}$, $\overline{T/S}$, $\overline{PLAY}$, $\overline{REC}$, CALF, $\overline{OSCON}$)
22	EJTSEL	I	Model select terminal Always: "H"
23	CNTSEL	I	Model select terminal Always: "H"
24	POF	I	Power off det. OFF: "L"
25	REM	I	Not used
26	CNV_{SS}	I	Connected to V_{SS}
27	$\overline{RESET}$	I	Reset input Normal: "H", Reset: "L"
28	X_{IN}	I	Clock OSC terminal (4MHz)
29	X_{OUT}	O	
30	X_{CIN}	I	Not used, connected to V_{SS}
31	X_{COUT}	O	Not used
32	V_{SS}	I	GND terminal
33	φ	O	Not used
34	RPS	I	Reel table (supply side) rotary det.
35	MSP	I	TPS (MS) det. No signal: "H" signal ON: "L"
36	MODE	I	Mech. mode switch (REC) PLAY, TPS: "L" Others: "H"
37	HALF	I	Mech. Half switch ON: "L", OFF: "H"
38	V_P	I	Reference voltage terminal
39 ∫ 44	G1 ∫ G6	O	FL grid control signal
45 ∫ 62	S1 ∫ S18	O	FL segment control signal
63	AV_{CC}	I	Power supply terminal for A/D converter
64	V_{CC}	I	Power supply terminal for micro computer

■PRINTED CIRCUIT BOARDS

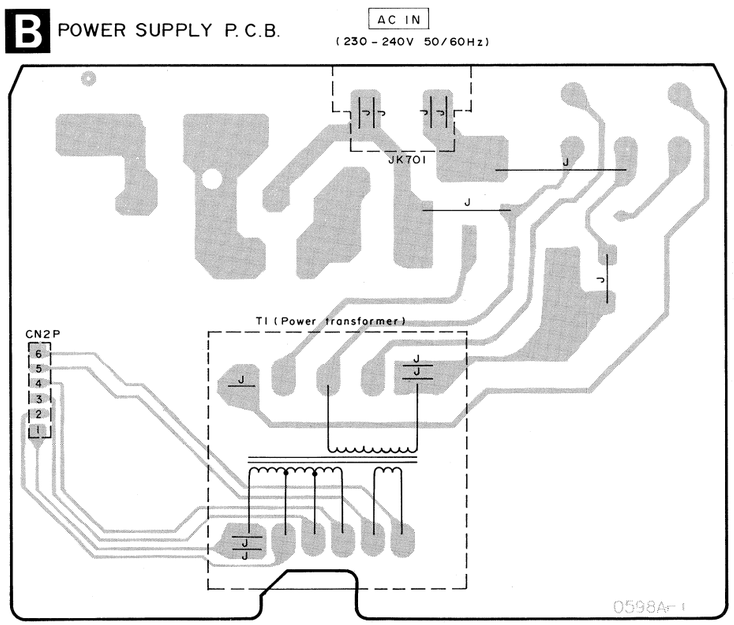
A MAIN P.C.B.



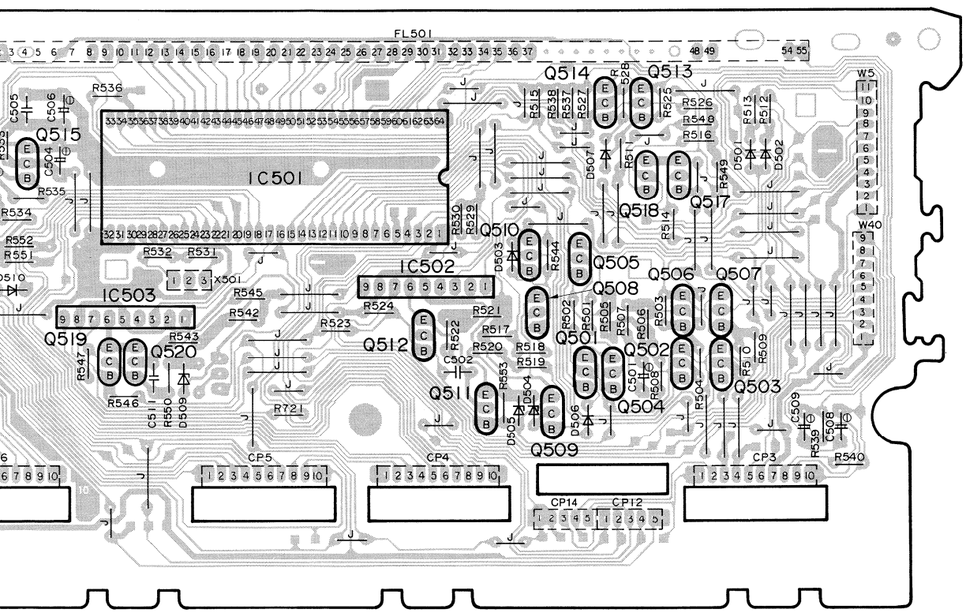
D FL DRIVE P.C.B.



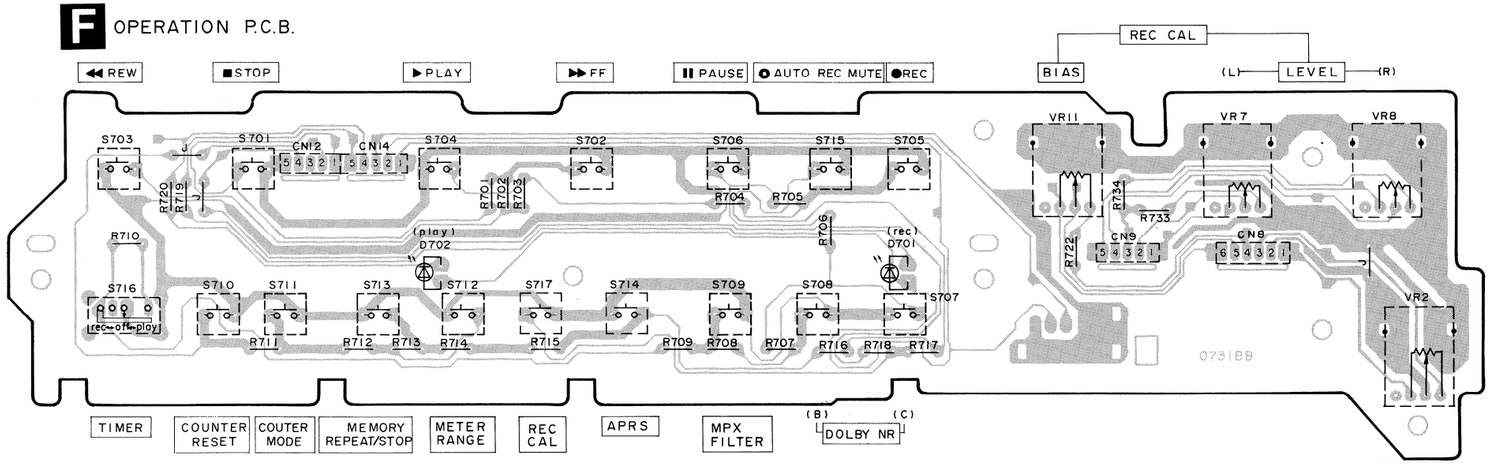
B POWER SUPPLY P.C.B.



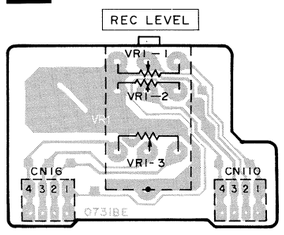
9 10 11 12 13 14 15 16 17 18 19



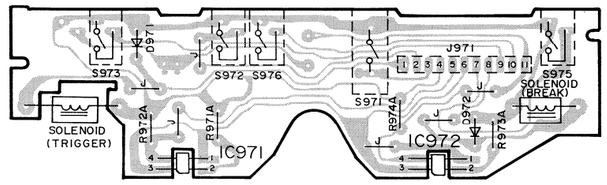
F OPERATION P.C.B.



E REC LEVEL P.C.B.

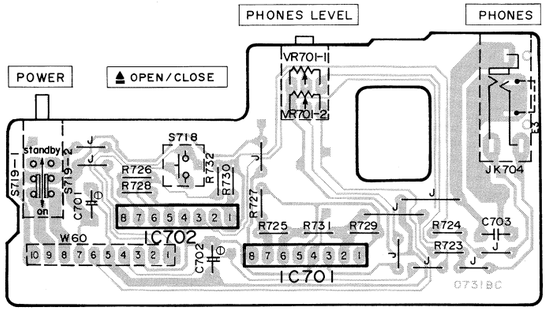


G MECHANISM P.C.B.

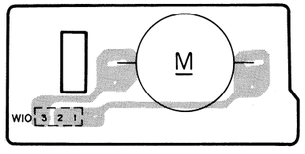


I LEAF SWITCH P.C.B.

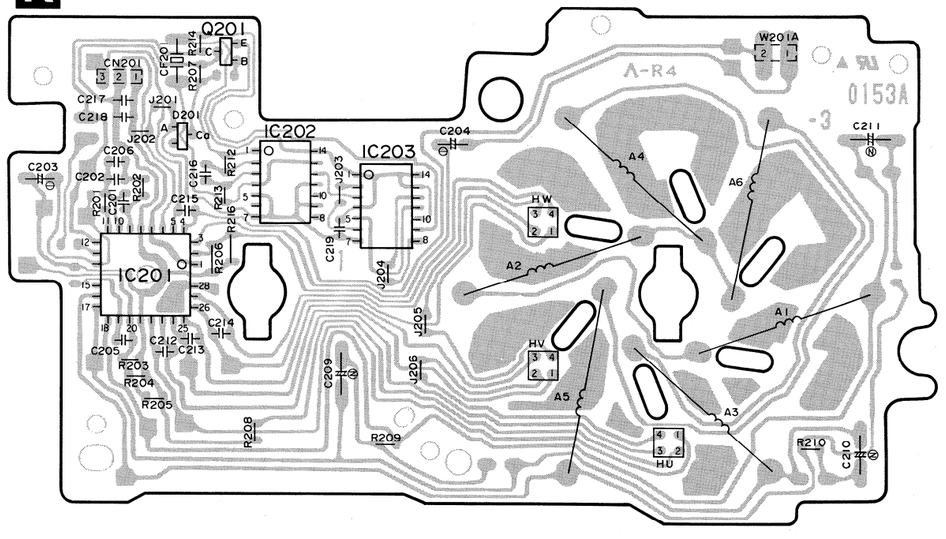
C POWER SWITCH/HEADPHONES P.C.B.



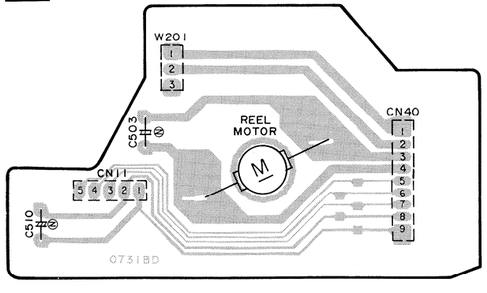
J EJECT DRIVE MOTOR P.C.B.



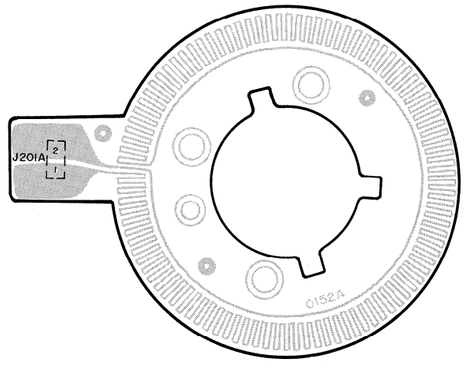
K CAPSTAN MOTOR (D.D) P.C.B.

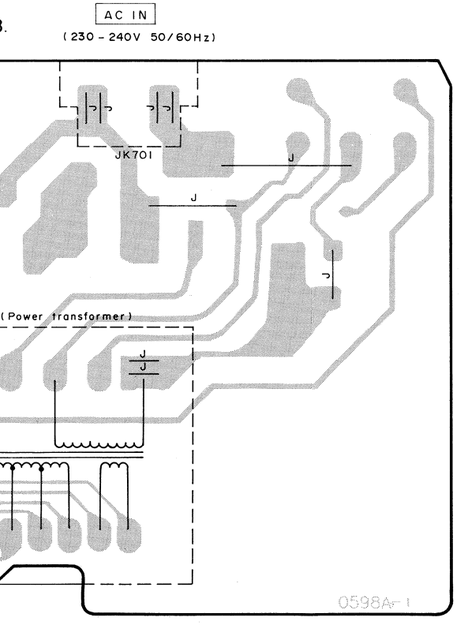


H MOTOR P.C.B.



L FG P.C.B.





■ SCHEMATIC DIAGRAM (Parts list on pages 38~42.)

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

Notes:

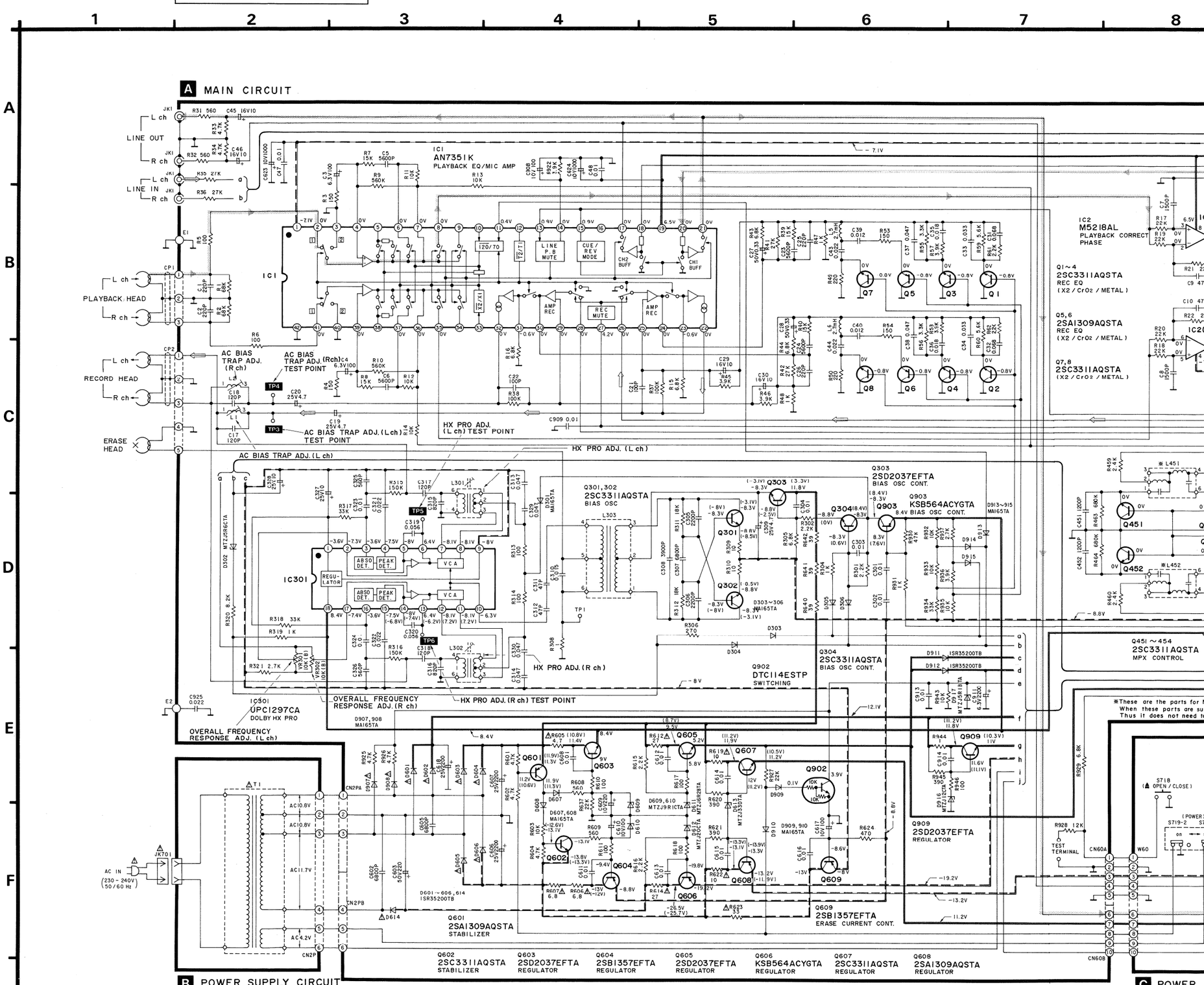
- S701 : Stop switch (■ STOP).
- S702 : Fast-forward switch (TPS ▶▶).
- S703 : Rewind switch (◀◀ TPS).
- S704 : Playback switch (▶ PLAY).
- S705 : Record switch (● REC).
- S706 : Pause switch (▮▮ PAUSE).
- S707 : Dolby noise-reduction switch (Dolby NR; C).
- S708 : Dolby noise-reduction switch (Dolby NR; B).
- S709 : Multiplex filter switch (MPX FILTER).
- S710 : Counter reset switch (COUNTER RESET).
- S711 : Counter mode switch (COUNTER MODE).
- S712 : Meter-range selector switch (METER RANGE).
- S713 : Memory mode switch (MEMORY REPEAT/STOP).
- S714 : APRS switch (APRS).
- S715 : Automatic-record-muting switch (AUTO REC MUTE).
- S716 : Timer switch in "**off**" position (TIMER).
- S717 : Calibration selector switch (REC CAL).
- S718 : Open/close switch (▲ OPEN/CLOSE).
- S719 : Power switch in "**on**" position (POWER ▬ standby ⏻ ▬ ON).
- S720 : Monitor switch (MONITOR).
- S791 : Motor switch in "**off**" position. (Loading)
- S792 : Open switch in "**off**" position. (Loading)
- S971 : Mode switch in "**off**" position.
- S972 : Cassette half detection switch in "**off**" position.
- S973 : ATS (CrO_2) switch in "**off**" positon.
- S975 : Rec. inhibit switch in "**off**" position.
- S976 : ATS (Metal) switch in "**off**" position.
- Resistance are in ohms (Ω), 1/4 watt unless specified otherwise.
  1K=1,000 (Ω), 1M=1,000k (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.
- The supply part number is described alone in the replacement parts list.

Ref. No.	Production Part No.	Supply Part No.
IC2, 701, 702, 901, 902, 903, 906	M5218AL	M5218L
IC203	SN74LS74AMEL	SN74LS74AM

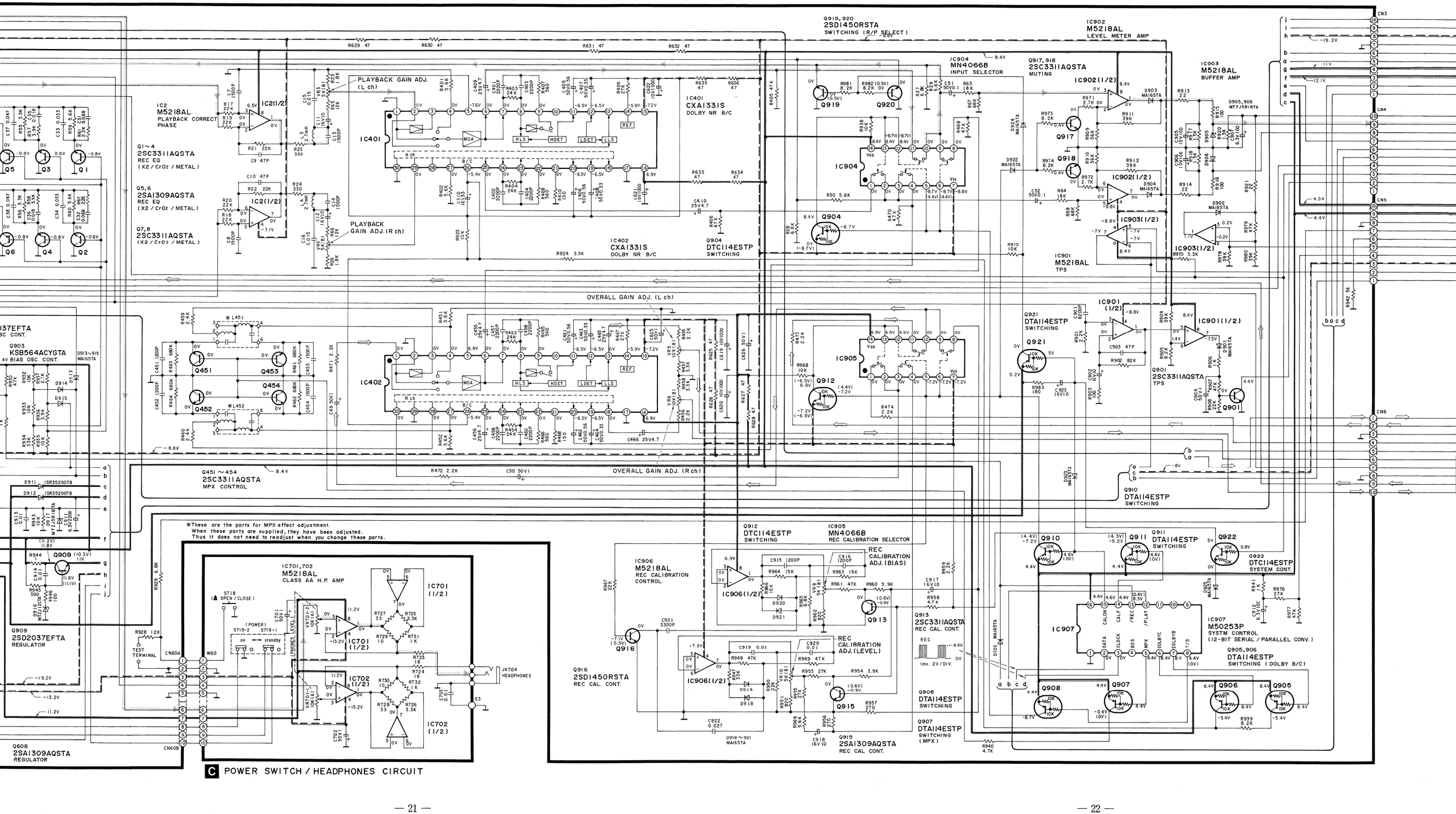
＊ Caution !

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.

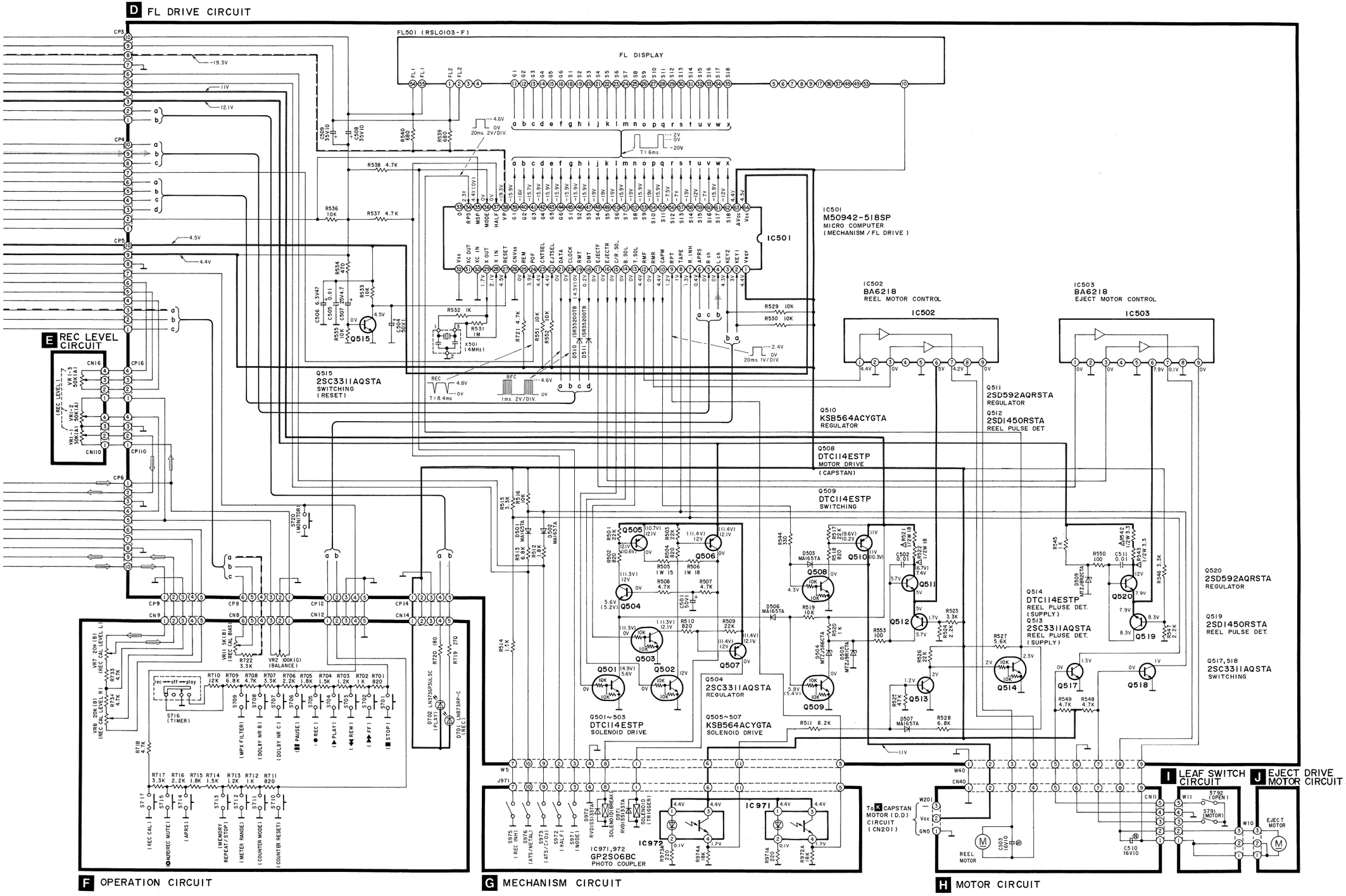


7 8 9 10 11 12 13 14 15 16



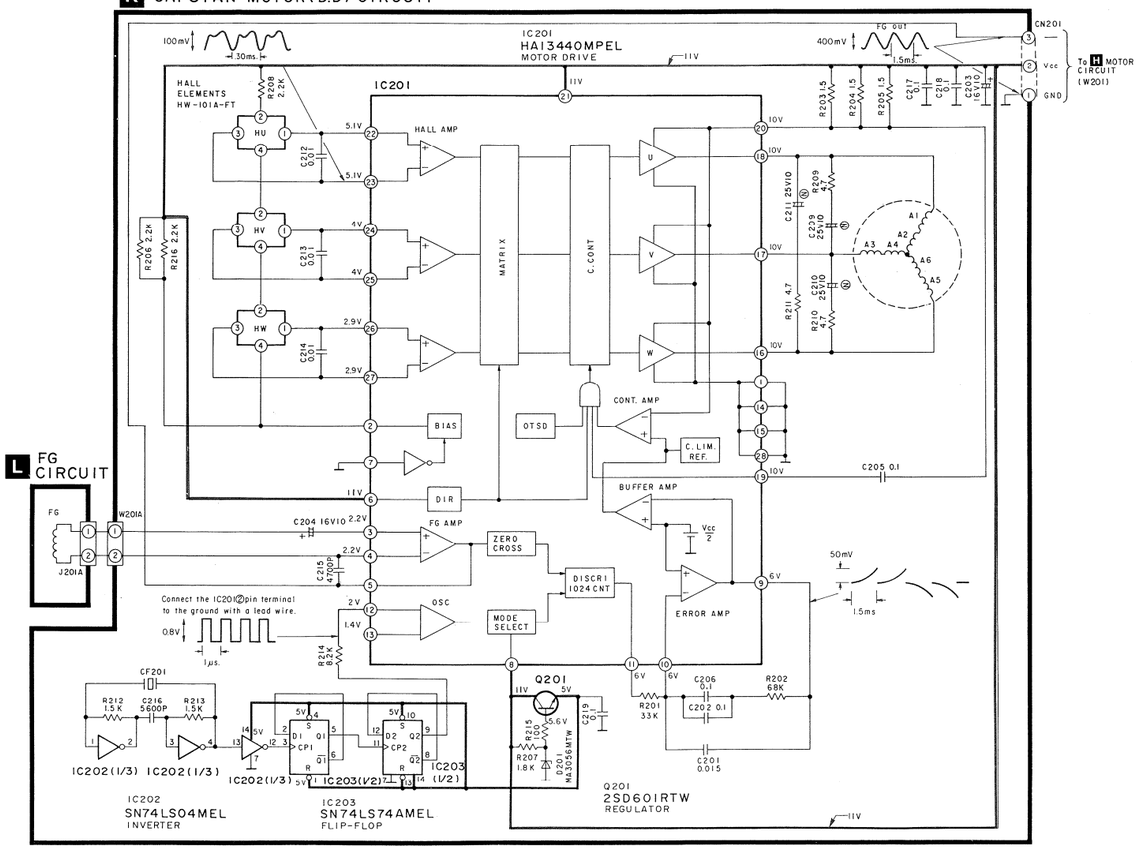
※These are the parts for MPX effect adjustment.
When these parts are supplied, they have been adjusted.
Thus it does not need to readjust when you change these parts.

C POWER SWITCH / HEADPHONES CIRCUIT


D FL DRIVE CIRCUIT
FL501 (RSL0103-F)
FL DISPLAY
IC501
M50942-518SP
MICRO COMPUTER
(MECHANISM / FL DRIVE)
IC502
BA6218
REEL MOTOR CONTROL
IC503
BA6218
EJECT MOTOR CONTROL
Q515
2SC3311AQSTA
SWITCHING
(RESET)
Q510
KSB564ACYGTA
REGULATOR
Q511
2SD592AQRSTA
REGULATOR
Q512
2SD1450RSTA
REEL PULSE DET
Q508
DTC114ESTP
MOTOR DRIVE
(CAPSTAN)
Q509
DTC114ESTP
SWITCHING
Q514
DTC114ESTP
REEL PLUSE DET.
(SUPPLY)
Q513
2SC3311AQSTA
REEL PLUSE DET.
(SUPPLY)
Q520
2SD592AQRSTA
REGULATOR
Q519
2SD1450RSTA
REEL PULSE DET.
Q517,518
2SC3311AQSTA
SWITCHING
Q504
2SC3311AQSTA
REGULATOR
Q501~503
DTC114ESTP
SOLENOID DRIVE
Q505~507
KSB564ACYGTA
SOLENOID DRIVE
IC971,972
GP2S06BC
PHOTO COUPLER
E REC LEVEL CIRCUIT
F OPERATION CIRCUIT
G MECHANISM CIRCUIT
H MOTOR CIRCUIT
I LEAF SWITCH CIRCUIT
J EJECT DRIVE MOTOR CIRCUIT
K CAPSTAN MOTOR(D.D) CIR
L FG CIRCUIT
IC202
SN74LS04MEL
INVERTER
IC203
SN74LS74
FLIP-FLOP
To K CAPSTAN MOTOR (D.D) CIRCUIT (CN201)
REEL MOTOR
EJECT MOTOR

26 28 29 30 31

K CAPSTAN MOTOR(D.D) CIRCUIT

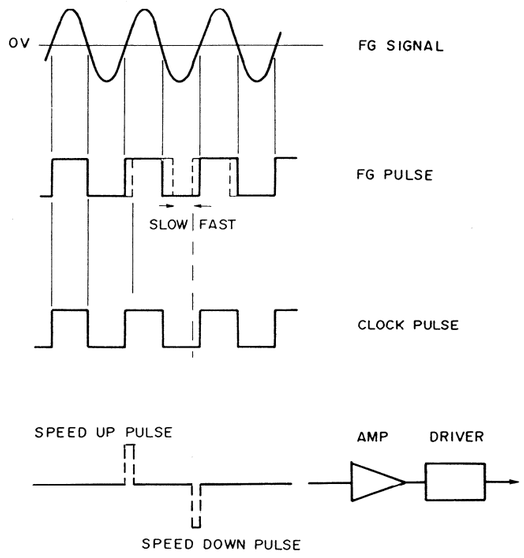


L FG CIRCUIT

■ TROUBLESHOOTING OF DIRECT DRIVE MOTOR

• OUTLINE OF THE DIRECT DRIVE MOTOR SYSTEM

The capstan motor is actuated by the DD motor digital servo system. The FG pulse is generated after the detection of the zero crosspoint, and the reference signal generated from the quartz oscillator is compared with this FG pulse.
From this comparison, the accelerated and reduced speed pulses are generated, causing the driving coil to function.

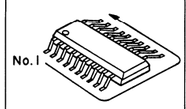
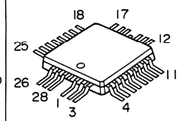
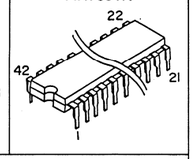
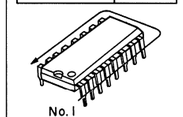
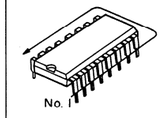
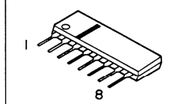
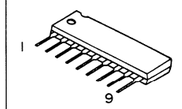
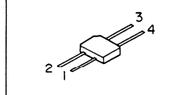
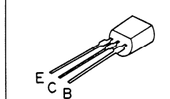
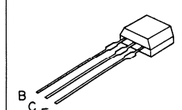
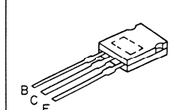
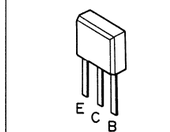
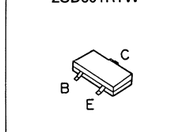
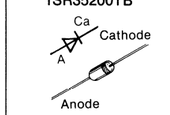
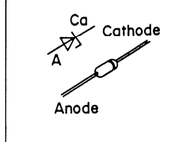
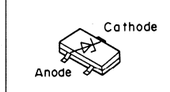
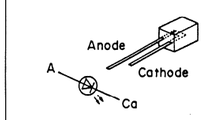


• TROUBLESHOOTING OF DIRECT DRIVE MOTOR

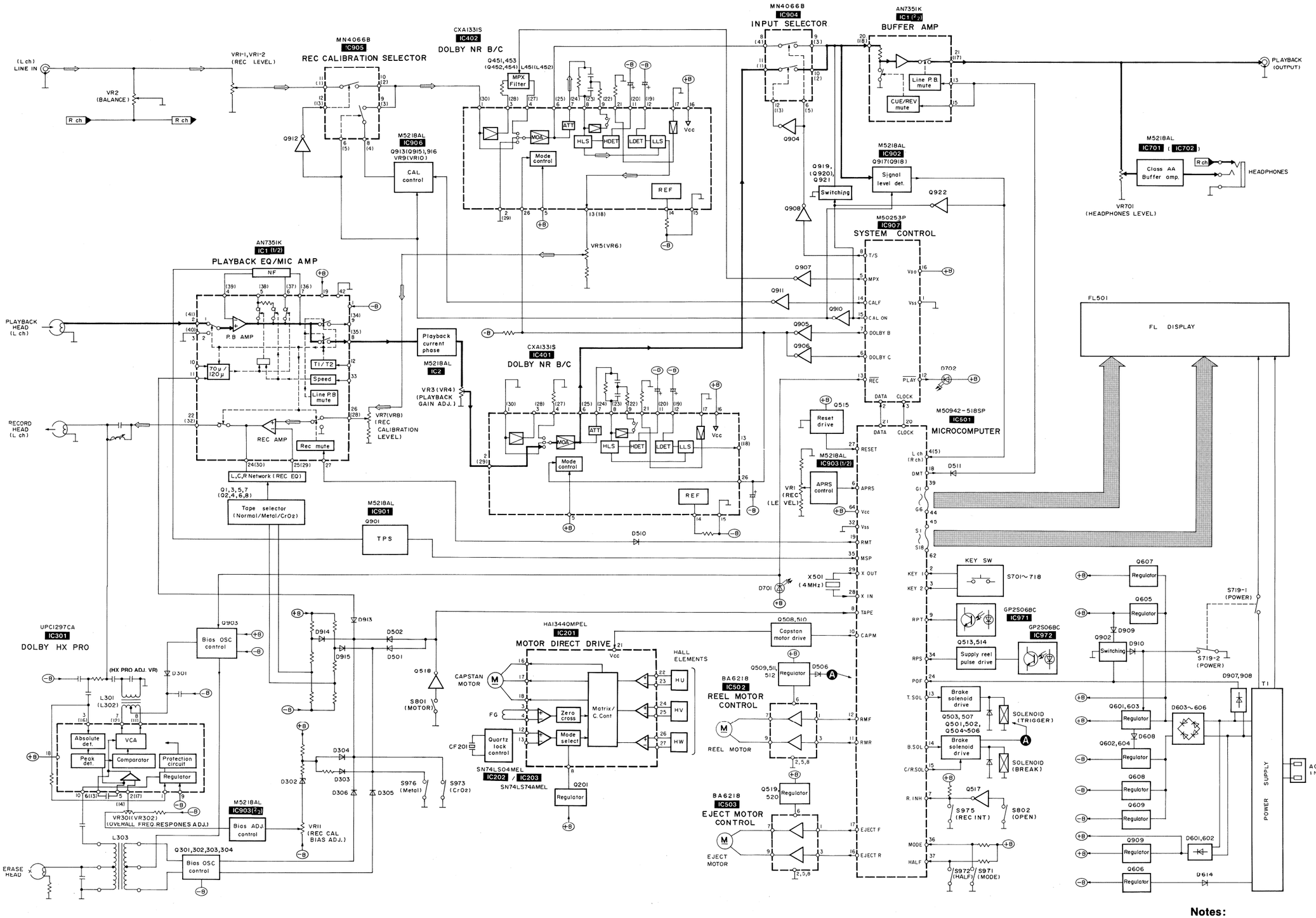
Problem	Possible Cause	Check Points
1. The motor does not rotate.	1. No power supply (+12V). 2. The Hall element has failed (Current does not flow). 3. The ceramic (or crystal) does not oscillate.	• Check the voltage applied to the connector. • Check the DC potential on IC201 pins ㉒~㉗. *Check the waveform of IC201 pin ⑫.
2. The motor does not rotate properly. (When pressed, it stops at certain angles. Sometimes it does not rotate even if power is ON.)	1. The coil is broken or not properly soldered. 2. Output of the Hall element is not proper.	*Check the conductance of the coil. If normal, the resistances between IC201 pins ⑯~⑰, ⑰~⑱, ⑯~⑱ will reach 20 ohms. • Check the waveform of IC201 pins ㉒~㉗.
3. The motor is out of control.	1. The FG coil is broken.	• Check the waveform of IC201 pin ⑤. • Check if the FG coil is broken.
4. Abnormal wow.	1. Same as those described for problem 2.	

Note: Check the points marked with an asterisk (*) by removing the DD motor control P.C.B. and then connecting IC201 pin ② to GND with a lead wire. (After the DD motor control P.C.B. is removed, current will start flowing through the coil, heating the IC.)

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

SN74LS04MEL 14 Pin SN74LS74AMEL 14 Pin 	HA13440MPEL 	AN7351K 
M50253P 16 Pin M50942-518SP 64 Pin 		MN4066B 14 Pin UPC1297CA 18 Pin CXA1331S 30 Pin
M5218AL 	BA6218 	GP2S06BC 
2SD592AQRSTA KSB564ACYGTA 	DTA114ESTP DTC114ESTP 	2SB1357EFTA 2SD2037EFTA 
	2SA1309AQSTA 2SC3311AQSTA 2SD1450RSTA	2SD601RTW 
MA165TA RVD1SS133TA 1SR35200TB 		MTZJ5R1BTA MTZJ5R6CTA MTZJ6R2BTA MTZJ8R2CTA MTZJ9R1CTA MTZJ12CTA MTZJ20CTA MTZJ33DTA
MA3056-MTX 		LN373GP3ULSC LN873RP-C

■ BLOCK DIAGRAM



Notes:
- ⟶ Playback signal
- ⟹ Recording signal

■ INTERNAL CO

• Anode connection

	1G
P1	S1
P2	S2
P3	▽
P 4	B1
P 5	B2
P 6	B3
P 7	B4
P 8	B5
P 9	B6
P10	B7
P11	B8
P12	B9
P13	B10
P14	B11
P15	B12
P16	B13
P17	B14
P18	B15
P19	S3

PLAYBACK (OUTPUT)

ADPHONES

TI

POWER SUPPLY

AC IN

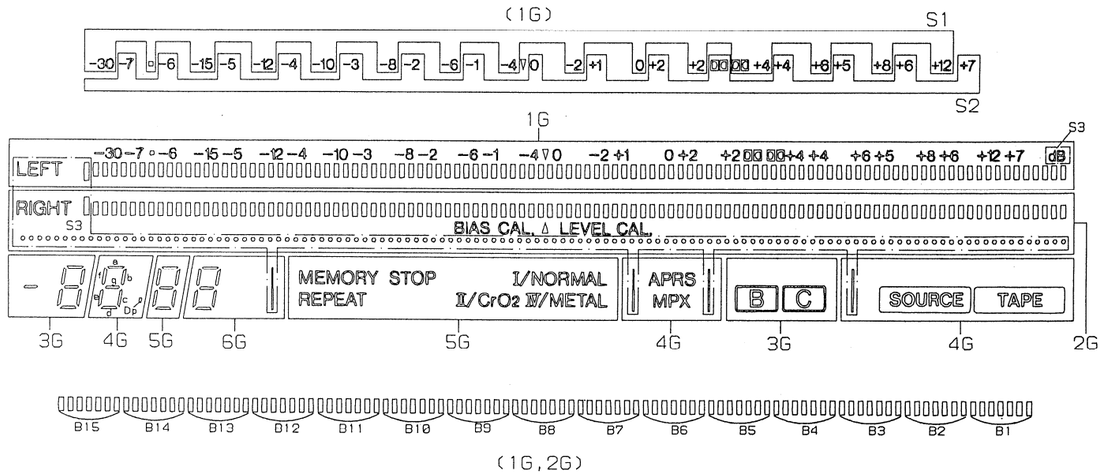
Playback signal
Recording signal

■ INTERNAL CONNECTION OF FL

• Anode connection table

	1G	2G	3G	4G	5G	6G
P1	S1	LEVEL CAL.	–	APRS	–	–
P2	S2	BIAS CAL.	–	–	–	–
P3	▽	△	–	–	–	–
P 4	B1	B1	–	–	–	–
P 5	B2	B2	–	–	MEMORY	–
P 6	B3	B3	–	–	REPEAT	–
P 7	B4	B4	–	TAPE	STOP	–
P 8	B5	B5	B	SOURCE	–	–
P 9	B6	B6	C	–	I/NORMAL	–
P10	B7	B7	–	MPX	II/CrO2	–
P11	B8	B8	⟺	Dp	IV/METAL	–
P12	B9	B9	a	a	a	a
P13	B10	B10	b	b	b	b
P14	B11	B11	f	f	f	f
P15	B12	B12	g	g	g	g
P16	B13	B13	c	c	c	c
P17	B14	B14	e	e	e	e
P18	B15	B15	d	d	d	d
P19	S3	S3	–	S3	–	S3

• Grid connection diagram



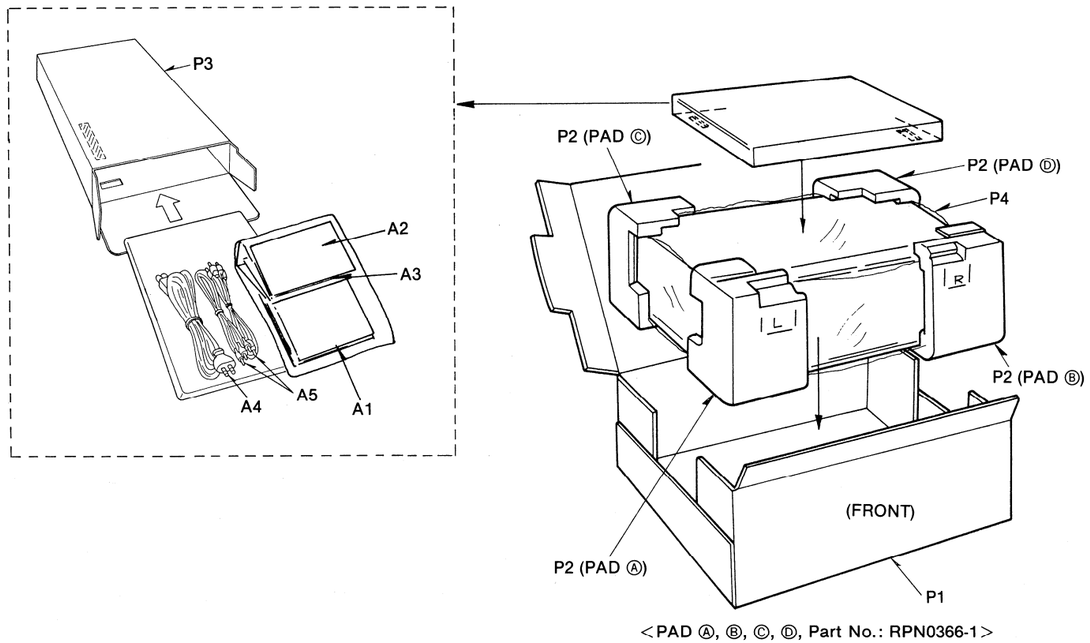
• Pin connection

PIN NO.	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	NP	NP	NP	NP	NC	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NC	6G	5G	4G	3G	2G	1G	P19	NP	NP	NP	NP	NP	NP	NP	F1	F1

PIN NO.	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
CONNECTION	F2	F2	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

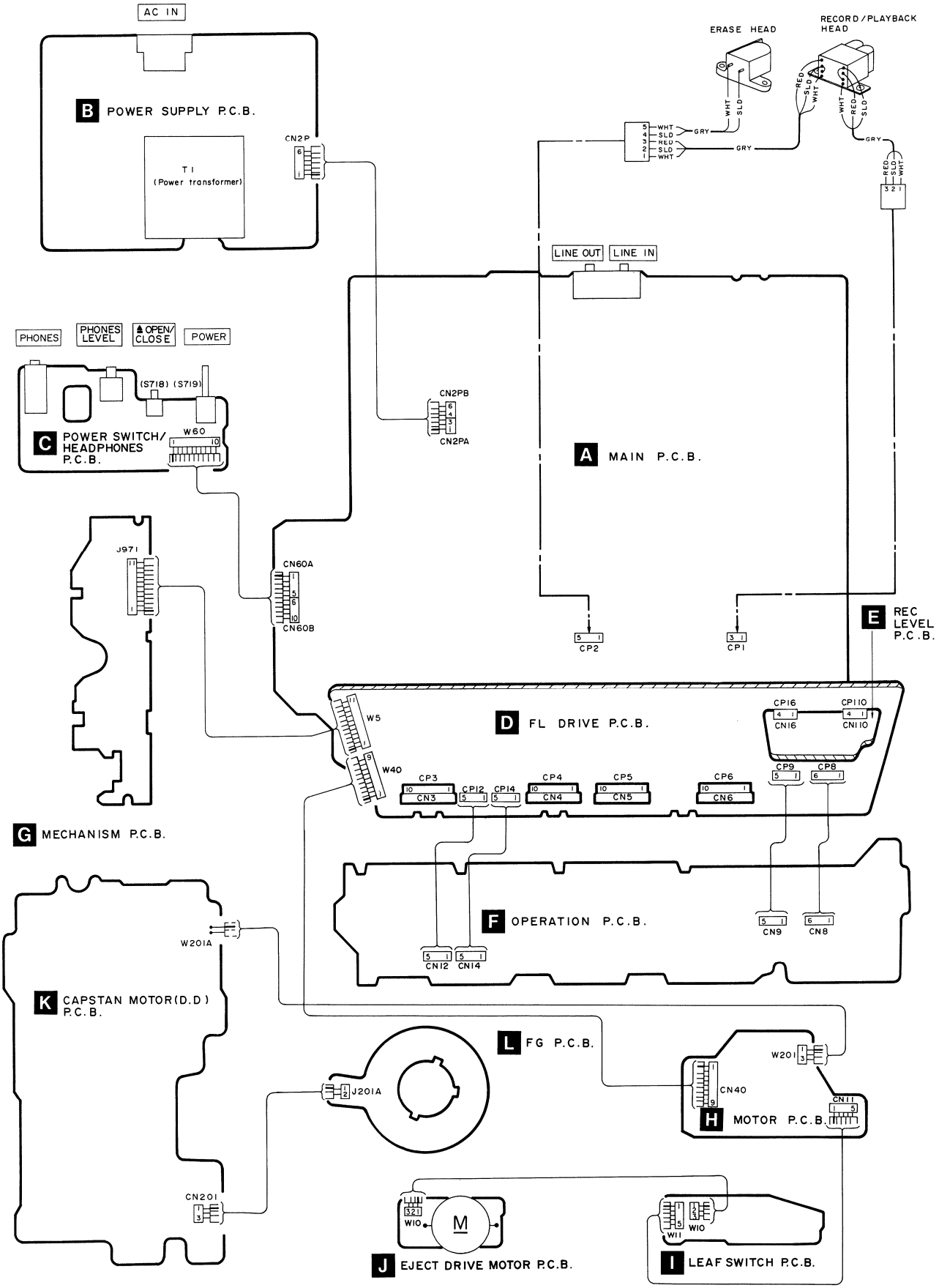
1) F1, F2..... Filament
2) NP..... No pin
3) NC..... No connection
4) 1G~6G..... Grid

■ PACKING



<PAD Ⓐ, Ⓑ, Ⓒ, Ⓓ, Part No.: RPN0366-1>

■ WIRING CONNECTION DIAGRAM



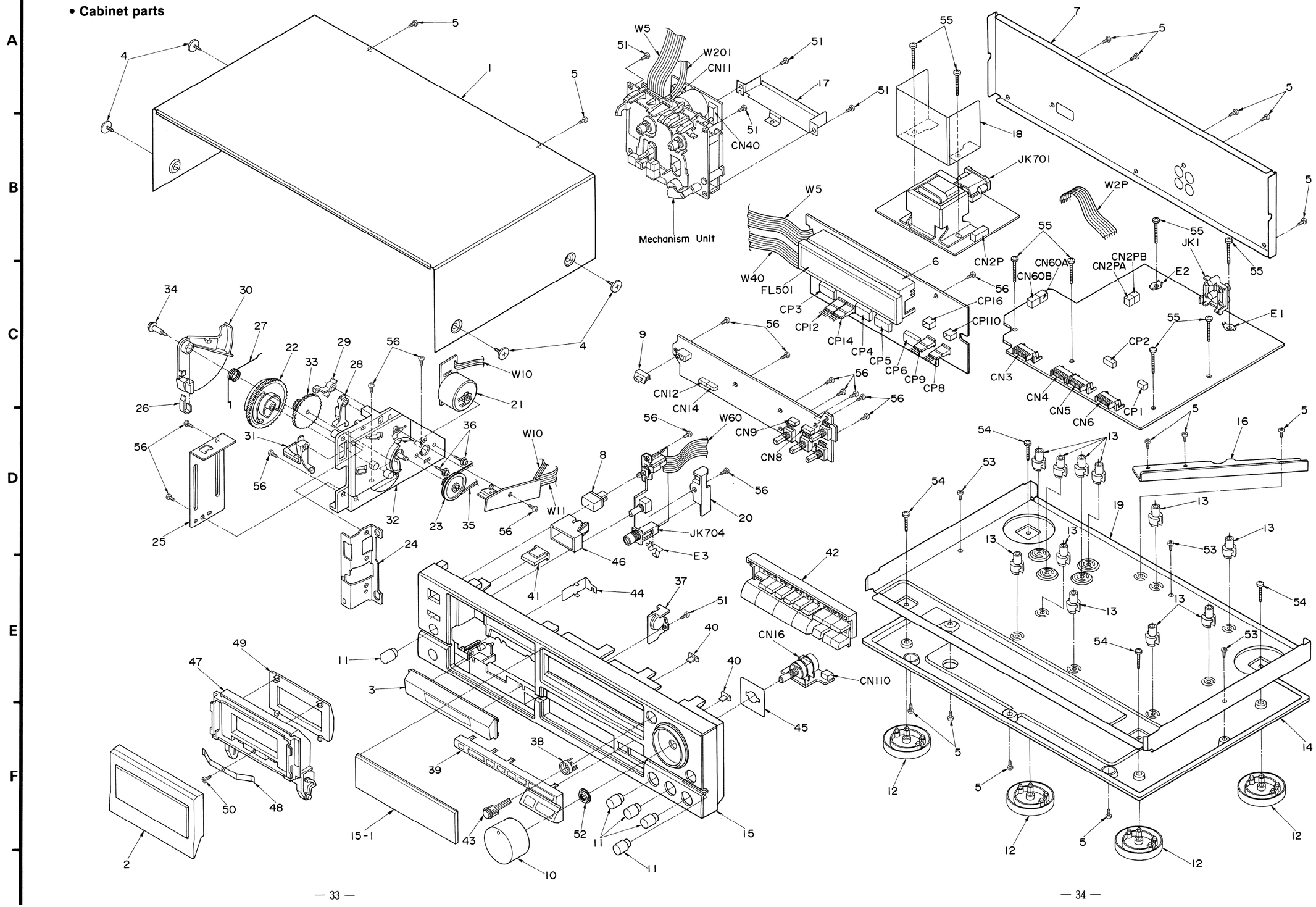
■ REPLACEMENT PARTS LIST

Notes : * 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.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0036-K	CABINET	
2	RYF0146A-K	CASSETTE LID	
3	RYQ0070-K	FRONT ORNAMENT	
4	SNE2129-1	SCREW	
5	XTBS3+8JFZ1	SCREW	
6	RMN0141	FL HOLDER	
7	RGR0128A-E1	REAR PANEL	(EG)
7	RGR0128A-F	REAR PANEL	(EB)
8	RGU0030	BUTTON, POWER SWITCH	
9	RGV0080-K	KNOB, TIMER	
10	RGW0033-K1	KNOB, REC LEVEL	
11	RGW0110-K	KNOB, BAL. /BIAS/H. P. /REC. CAL	
12	RKA0009-1	FOOT	
13	RKQ0089	P. C. B. HOLDER	
14	RKU0009-2	BOTTOM BOARD	
15	RFKGSBX707EB	FRONT PANEL ASS'Y	
15-1	RKW0171B-K	TRANSPARENT PLATE	
16	RMA0517	BRACKET, BOTTOM CHASSIS	
17	RMC0137	SHIELD PLATE, MECH UNIT	
18	RMC0139	SHIELD PLATE, P. TRANSFORMER	
19	RMK0026-6	BOTTOM CHASSIS	
20	RMN0140	ORNAMENT, HEADPHONES	
21	RFKPSB755E-K	EJECT DRIVE MOTOR ASS'Y	
22	RDG0080	DRIVE GEAR	
23	RDG0081	PULLEY GEAR	
24	RMA0146-1	LOADING ANGLE	
25	RMA0242	ANGLE	
26	RMC0039	BRACKET	
27	RME0039	OPEN SPRING	
28	RML0110	LEAF SWITCH LEVER(B)	
29	RML0111	LEAF SWITCH LEVER(C)	
30	RML0112	DRIVE SELECTOR LEVER	
31	RML0113	LEAF SWITCH LEVER(A)	
32	RFKNSB755EDK	LOADING BASE ASS'Y	
33	SFUGF01N02	INTERMEDIATE GEAR	
34	SHDD8	SCREW	
35	SMBD7-2	BELT	
36	XYN26+F6	SCREW	
37	RFKNSDN7AK	DAMPER GEAR ASS'Y	
38	RGK0407-A	ORNAMENT, MONITOR BUTTON	
39	RGK0411-K	ORNAMENT, OPERATION BUTTON	
40	RGL0030	PANEL LIGHT	
41	RGU0195	BUTTON, OPEN/CLOSE	
42	RGU0619-K	BUTTON, OPERATION	
43	RGU0620-K	BUTTON, MONITOR	
44	RMA0535	HOLDER ANGLE	
45	RMC0056-1	SHIELD PLATE, REC LEVEL	
46	RMR0185	BUTTON SPACER	
47	RFKNSBX707EB	CASSETTE HOLDER ASS'Y	
48	RMC0038	HALF SPRING	
49	RMQ0072	HALF STABILIZER	
50	XTB3+6J	SCREW	
51	XTB3+10JFZ	SCREW	
52	SNE4021-1	NUT	
53	XTB3+10GFZ	SCREW	
54	XTB3+16CFN	SCREW	
55	XTB3+20JFZ	SCREW	
56	XTB3+8JFZ	SCREW	
		PACKING MATERIAL	
P1	RPG0994	CARTON BOX	
P2	RPN0366-1	PAD	
P3	SPSD152	ACCESSORIES BOX	
P4	SPP756	PROTECTION COVER	
		ACCESSORIES	
A1	RFKSSBX707EG	INSTRUCTION MANUAL ASS'Y	(EG)
A1	RQT1192-B	INSTRUCTION MANUAL ASS'Y	(EB)
A2	RQA0013	WARRANTY CARD	
A3	RQCB0169	SERVICENTER LIST	
A4	SFDAC05E03	AC POWER SUPPLY CORD	(EG) ⚠
A4	SJA193	AC POWER SUPPLY CORD	(EB) ⚠
A5	SJP2249-3	STEREO CONNECTION CABLE	

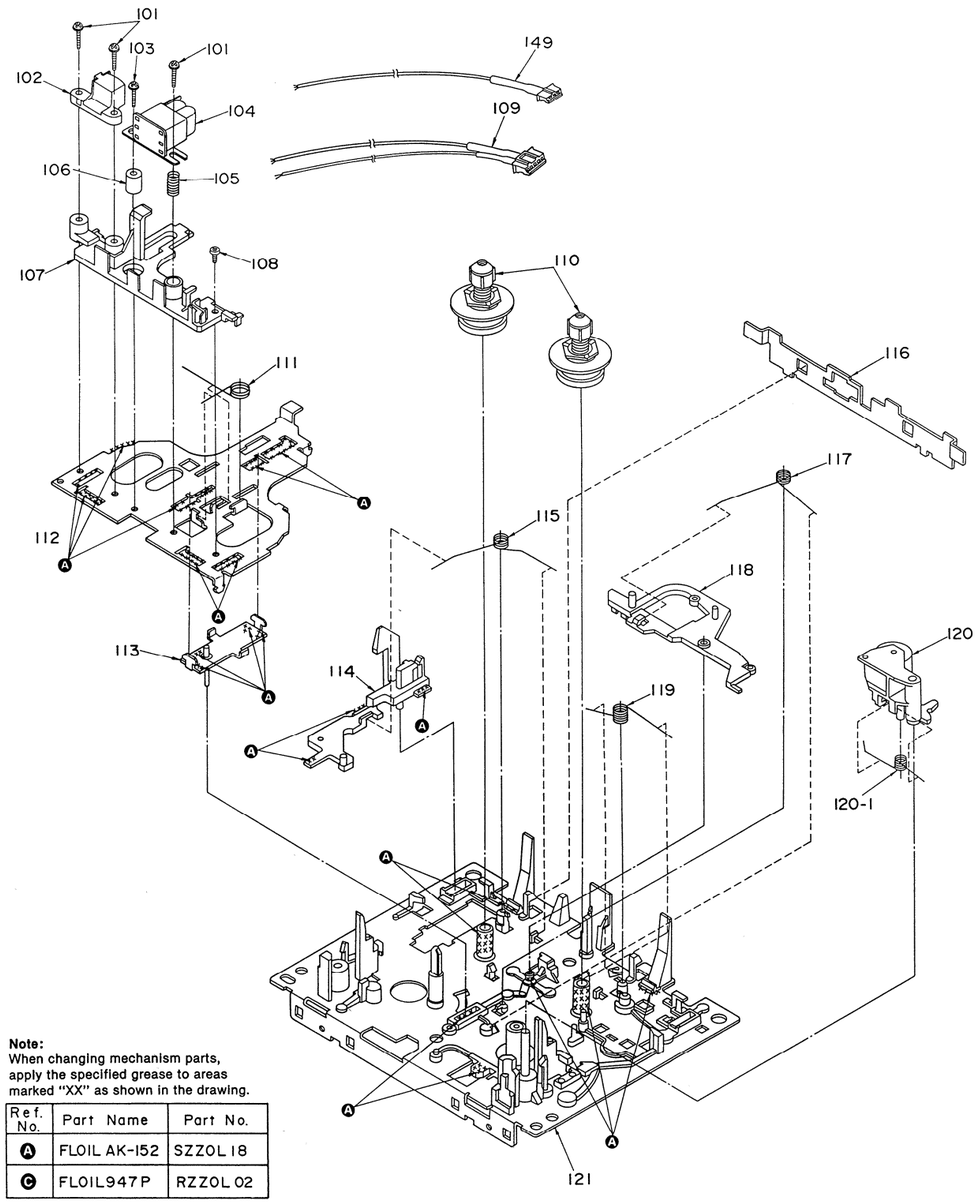
■ EXPLODED VIEWS

• Cabinet parts



• **Mechanical parts**

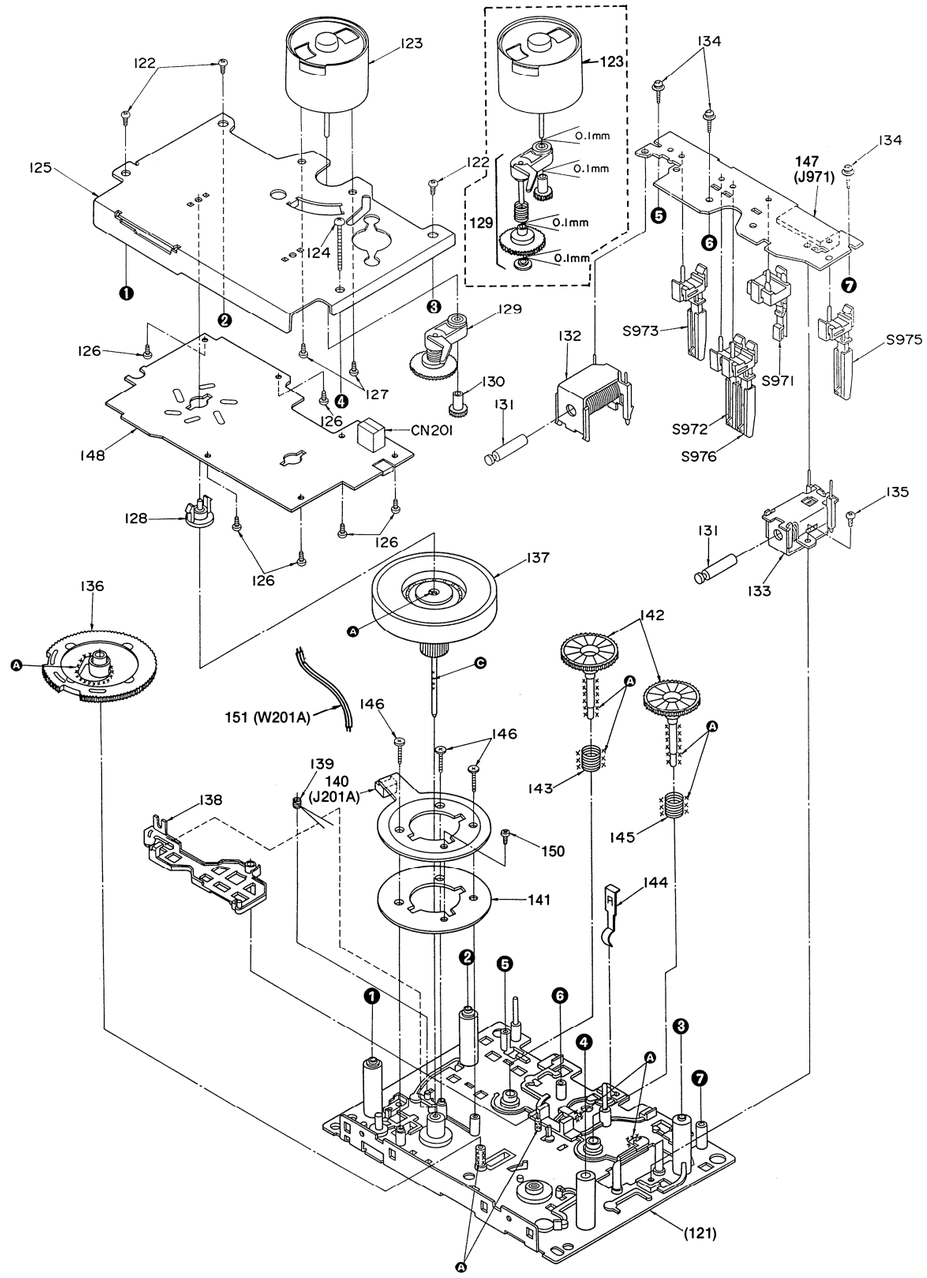
(Top view)



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

Ref. No.	Part Name	Part No.
Ⓐ	FL0IL AK-152	SZZ0L18
Ⓒ	FL0IL947P	RZZ0L02

(Bottom view)



■ REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST	
101	QHQ1361A	SCREW	
102	SJH96-1	E HEAD	
103	RHE5201ZA	SCREW	
104	RBR4CY009-C	R/P HEAD	
105	QBC1278A	HEAD SPRING	
106	RMX0014	SPACER	
107	RMR0184	HEAD SPACER	
108	XTN2+5F	SCREW	
109	REX0092-1	LEAD WIRE BLOCK	
110	RXR0009	REEL TABLE	
111	RUW139ZA	HEAD BASE SPRING	
112	RMA0047A-1	HEAD BASE	
113	RXQ0078	MAIN ROD ASS'Y	
114	RMM0012-2	EJECT ROD(L)	
115	RME0018-1	SPRING, EJECT ROD(L)	
116	RML0069-1	LEVER	
117	RME0020	BRAKE SPRING	
118	RML0040-2	BRAKE LEVER	
119	RUW142ZA	SPRING	
120	RXP0004	PINCH ROLLER ARM(F)	
120-1	RUW140ZC	SPRING, PINCH ROLLER ARM(F)	
121	RFKRSB555E-K	CHASSIS ASS'Y	
122	XTN26+7J	SCREW	
123	MMN-6F4RA88	REEL MOTOR	
124	XTN26+26F	SCREW	
125	RMA0048A	FLYWHEEL PLATE	
126	XTN2+3F	SCREW	
127	XSN26+3	SCREW	
128	RMR0141	THRUST BEARING	
129	RXG0009	IDLE GEAR ASS'Y	
130	RDG0034	REEL MOTOR GEAR	
131	RUB428ZE	MOVING IRON CORE	
132	RSJ0003	SOLENOID	
133	RXQ0011	BLAKE SOLENOID	
134	XTW2+8S	SCREW	
135	XTN26+4F	SCREW	
136	RDG0030	MAIN GEAR	
137	RXF0008	FLYWHEEL	
138	RML0037	TRIGGER LEVER	
139	RUW147ZA	TRIGGER LEVER SPRING	
140	RJS2T77ZA	CONNECTOR(2P), J201A	
141	RMQ0037	FG YOKE	
142	RXG0003	REEL TABLE GEAR	
143	RUQ112ZA	SPRING	
144	RUS609ZC	TAPE PRESSURE SPRING	
145	RUQ111ZB	SPRING	
146	RHE5204ZB	SCREW	
147	RJS11T77A	CONNECTOR(11P), J971	
148	REP0268C	STATER P.C.B. ASS'Y	

Ref. No.	Part No.	Part Name & Description	Remarks
149	REX0093-2	LEAD WIRE BLOCK	
150	XQN2+AF3	SCREW	
151	RWJ0202090XX	FLAT CABLE(2P), W201A	

■ REPLACEMENT PARTS LIST

Notes : * 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.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC1	AN7351K	PLAYBACK/REC AMP	
IC2	M5218L	PLAYBACK CORRECT PHASE	
IC201	HA13440MPEL	MOTOR DRIVE	
IC202	SN74LS04MEL	INVERTER	
IC203	SN74LS74AM	FLIP-FLOP	
IC301	UPC1297CA	DOLBY HX PRO	
IC401, 402	CXA1331S	DOLBY B/C NR	
IC501	M50942-518SP	MICROCOMPUTER	
IC502	BA6218	REEL MOTOR DRIVE	
IC503	BA6218	EJECT MOTOR DRIVE	
IC701, 702	M5218L	Class AA:H. P. AMP	
IC901	M5218L	TPS	
IC902	M5218L	LEVEL METER AMP	
IC903	M5218L	BUFFER AMP	
IC904	MN4066B	INPUT SELECTOR	
IC905	MN4066B	REC CALIBRATION SELECTOR	
IC906	M5218L	REC CALIBRATION CONTROL	
IC907	M50253P	SYSTEM CONTROL	
IC971, 972	GP2S06BC	PHOTO COUPLER	
		TRANSISTOR(S)	
Q1-4	2SC3311A-Q	TRANSISTOR	
Q5, 6	2SA1309A-R	TRANSISTOR	
Q7, 8	2SC3311A-Q	TRANSISTOR	
Q201	2SD601R	TRANSISTOR	
Q301, 302	2SC3311A-Q	TRANSISTOR	
Q303	2SD2037EFTA	TRANSISTOR	
Q304	2SC3311A-Q	TRANSISTOR	
Q451-454	2SC3311A-Q	TRANSISTOR	
Q501-503	DTC114ESTP	TRANSISTOR	
Q504	2SC3311A-Q	TRANSISTOR	
Q505-507	KSB564ACYGTA	TRANSISTOR	
Q508, 509	DTC114ESTP	TRANSISTOR	
Q510	KSB564ACYGTA	TRANSISTOR	
Q511	2SD592ANCQ	TRANSISTOR	
Q512	2SD1450RSTA	TRANSISTOR	
Q513	2SC3311A-Q	TRANSISTOR	
Q514	DTC114ESTP	TRANSISTOR	
Q515	2SC3311A-Q	TRANSISTOR	
Q517, 518	2SC3311A-Q	TRANSISTOR	
Q519	2SD1450RSTA	TRANSISTOR	
Q520	2SD592ANCQ	TRANSISTOR	
Q601	2SA1309A-R	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q602	2SC3311A-Q	TRANSISTOR	
Q603	2SD2037EFTA	TRANSISTOR	
Q604	2SB1357EFTA	TRANSISTOR	
Q605	2SD2037EFTA	TRANSISTOR	
Q606	KSB564ACYGTA	TRANSISTOR	
Q607	2SC3311A-Q	TRANSISTOR	
Q608	2SA1309A-R	TRANSISTOR	
Q609	2SB1357EFTA	TRANSISTOR	
Q901	2SC3311A-Q	TRANSISTOR	
Q902	DTC114ESTP	TRANSISTOR	
Q903	KSB564ACYGTA	TRANSISTOR	
Q904	DTC114ESTP	TRANSISTOR	
Q905-908	DTA114ESTP	TRANSISTOR	
Q909	2SD2037EFTA	TRANSISTOR	
Q910, 911	DTA114ESTP	TRANSISTOR	
Q912	DTC114ESTP	TRANSISTOR	
Q913	2SC3311A-Q	TRANSISTOR	
Q915	2SA1309A-R	TRANSISTOR	
Q916	2SD1450RSTA	TRANSISTOR	
Q917, 918	2SC3311A-Q	TRANSISTOR	
Q919, 920	2SD1450RSTA	TRANSISTOR	
Q921	DTA114ESTP	TRANSISTOR	
Q922	DTC114ESTP	TRANSISTOR	
		DIODE(S)	
D201	MA3056-MTX	DIODE	
D301	MA165	DIODE	
D302	MTZJ5R6CTA	DIODE	
D303-306	MA165	DIODE	
D501-503	MA165	DIODE	
D504	MTZJ5R6CTA	DIODE	
D505	MTZJ9R1CTA	DIODE	
D506, 507	MA165	DIODE	
D509	MTZJ8R2CTA	DIODE	
D510, 511	1SR35200TB	DIODE	
D601-606	1SR35200TB	DIODE	⚠
D607, 608	MA165	DIODE	
D609, 610	MTZJ9R1CTA	DIODE	
D611	MTZJ6R2BTA	DIODE	
D612	MTZJ20CTA	DIODE	
D613	MTZJ33DTA	DIODE	
D614	1SR35200TB	DIODE	⚠
D701	LN873RP-C	L. E. D.	
D702	LN373GP3ULSC	L. E. D.	
D703	MA165	DIODE	
D901-904	MA165	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D905, 906	MTZJ5R1BTA	DIODE	
D907, 908	MA165	DIODE	⚠
D909, 910	MA165	DIODE	
D911, 912	1SR35200TB	DIODE	⚠
D913-915	MA165	DIODE	
D916	MTZJ12CTA	DIODE	
D917	MTZJ5R1BTA	DIODE	
D918-925	MA165	DIODE	
D971, 972	RVD1SS133TA	DIODE	
		VARIABLE RESISTOR(S)	
VR1	EWGU2A029A54	REC. LEVEL CONTROL	
VR2	EVJ02SFA5G15	BALANCE CONTROL	
VR3, 4	EVNDXAA00B53	PLAYBACK GAIN ADJ.	
VR5, 6	EVNDXAA00B14	OVERALL GAIN ADJ.	
VR7, 8	EVJ02KFA5B24	REC. CALIBRATION	
VR9, 10	EVNDXAA00B53	CALIBRATION LEVEL ADJ.	
VR11	EVJ02KFA5B53	BIAS CURRENT ADJ.	
VR301, 302	EVNDXAA00B14	OVERALL FREQ. ADJ.	
VR701	EVU57A064A14	HEADPHONES CONTROL	
		COIL(S)	
L1, 2	RLZ0003	COIL(AC BIAS TRAP ADJ.)	
L3-6	SLQX272-1YT	COIL	
L301, 302	SL09B1-Z	COIL(HX PRO ADJ.)	
L303	SL09B4-K	COIL	
L451, 452	QLM9Z10K	COIL	
		TRANSFORMER(S)	
T1	RTP1K4E014-V	POWE TRANSFORMER	⚠
		OSILLATOR(S)	
CF201	RSXA3M74S01	CRYSTAL OSILLATOR	
		FILTER(S)	
X501	EF0GC4004A4	CERAMIC FILTER(4MHz)	
		DISPLAY TUBE(S)	
FL501	RSL0103-F	DISPLAY TUBE	
		SWITCH(ES)	
S701	EVQ21405R	STOP	
S702	EVQ21405R	FF	
S703	EVQ21405R	REW	
S704	EVQ21405R	PLAY	

Ref. No.	Part No.	Part Name & Description	Remarks
S705	EVQ21405R	REC	
S706	EVQ21405R	PAUSE	
S707	EVQ21405R	DOLBY NR C	
S708	EVQ21405R	DOLBY NR B	
S709	EVQ21405R	MPX FILTER	
S710	EVQ21405R	COUNTER RESET	
S711	EVQ21405R	COUNTER MODE	
S712	EVQ21405R	METER RANGE	
S713	EVQ21405R	MEMORY(REPEAT/STOP)	
S714	EVQ21405R	APRS	
S715	EVQ21405R	AUTO REC MUTE	
S716	SSS166	TIMER	
S717	EVQ21405R	REC CAL	
S718	EVQ21405R	OPEN/CLOSE	
S719	SSH1238	POWER	
S720	EVQ21405R	MONITOR(SOURCE/TAPE)	
S791	SSPD18-1	MOTOR, LOADING	
S792	SSPD18-1	OPEN, LOADING	
S971	RSH1A89ZB-U	MODE	
S972	RSH1A90YB-U	HALF	
S973	RSH1A90YB-U	ATS	
S975	RSH1A90YB-U	REC INHIBIT	
S976	RSH1A90YB-U	ATS	
		CONNECTOR(S) AND SOCKET(S)	
CN2P	SJT30643-V	CONNECTOR(6P)	
CN2PA	RJS1A1703	CONNECTOR(3P)	
CN2PB	RJS1A1703	CONNECTOR(3P)	
CN3-6	RJU003K010M1	SOCKET(10P)	
CN8	SJS50681BB	SOCKET(6P)	
CN9	SJS50581BB	SOCKET(5P)	
CN11	SJT30544-H	CONNECTOR(5P)	
CN12	SJS50581BB	SOCKET(5P)	
CN14	SJS50581BB	SOCKET(5P)	
CN16	RJU057W004	SOCKET(4P)	
CN40	RJS9T7ZA	CONNECTOR(9P)	
CN60A	RJS1A1705	CONNECTOR(5P)	
CN60B	RJS1A1705	CONNECTOR(5P)	
CN110	RJU057W004	SOCKET(4P)	
CN201	RJS3T4ZA	CONNECTOR(3P)	
CP1	RJP3G18ZA	CONNECTOR(3P)	
CP2	RJP5G18ZA	CONNECTOR(5P)	
CP3-6	RJT003K010M1	CONNECTOR(10P)	
CP8	SJT30648BB1	CONNECTOR(6P)	
CP9	SJT30548BB1	CONNECTOR(5P)	
CP12	SJT30548BB1	CONNECTOR(5P)	
CP14	SJT30548BB1	CONNECTOR(5P)	
CP16	RJT057W004	CONNECTOR(4P)	
CP110	RJT057W004	CONNECTOR(4P)	
		JACK(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
JK1	SJF3069N	TERMIANL BOARD	
JK701	SJS9236	AC INLET	⚠
JK704	SJJD19	JACK, HEADPHONES	
		FLAT CABLE(S)	
W2P	RWJ1806110QQ	FLAT CABLE(6P)	
W5	RWJ0211220KQ	FLAT CABLE(11P)	
W10	RWJ1803160KK	FLAT CABLE(3P)	

Ref. No.	Part No.	Part Name & Description	Remarks
W11	RWJ1805170KQ	FLAT CABLE(5P)	
W40	RWJ0209180KQ	FLAT CABLE(9P)	
W60	RWJ1810260KQ	FLAT CABLE(10P)	
W201	RWJ1803120KQ	FLAT CABLE(3P)	
		GND PART(S)	
E1, 2	SNE1004-1	GND PLATE	
E3	SUSD165	GND SPRING	

■ RESISTORS & CAPACITORS

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R1, 2	ERDS2TJ683	1/4W 68K
R3, 4	ERDS2TJ151	1/4W 150
R5, 6	ERDS2TJ101	1/4W 100
R7, 8	ERDS2TJ153	1/4W 15K
R9, 10	ERDS2TJ564	1/4W 560K
R11-14	ERDS2TJ103	1/4W 10K
R15, 16	ERDS2TJ682T	1/4W 6.8K
R17-22	ERDS2TJ223	1/4W 22K
R23, 24	ERDS2TJ331	1/4W 330
R25, 26	ERDS2TJ182	1/4W 1.8K
R27, 28	ERDS2TJ682T	1/4W 6.8K
R29, 30	ERDS2TJ562	1/4W 5.6K
R31, 32	ERDS2TJ561	1/4W 560
R33, 34	ERDS2TJ472	1/4W 4.7K
R35, 36	ERDS2TJ273	1/4W 27K
R37, 38	ERDS2TJ104	1/4W 100K
R39, 40	ERDS2TJ153	1/4W 15K
R41, 42	ERDS2TJ273	1/4W 27K
R43, 44	ERDS2TJ682T	1/4W 6.8K
R45, 46	ERDS2TJ392T	1/4W 3.9K
R47, 48	ERDS2TJ102	1/4W 1K
R49, 50	ERDS2TJ221	1/4W 220
R53, 54	ERDS2TJ151	1/4W 150
R55, 56	ERDS2TJ332	1/4W 3.3K
R57, 58	ERDS2TJ392T	1/4W 3.9K

Ref. No.	Part No.	Values & Remarks
R59, 60	ERDS2TJ562	1/4W 5.6K
R61, 62	ERDS2TJ222	1/4W 2.2K
R63, 64	ERDS2TJ183T	1/4W 18K
R65, 66	ERDS2TJ123	1/4W 12K
R67, 68	ERDS2TJ683	1/4W 68K
R201	ERJ6GEYJ333V	1/10W 33K
R202	ERJ6GEYJ683V	1/10W 68K
R203-205	ERJ6GEYJ1R5V	1/10W 1.5
R206	ERJ8GEYJ222V	1/8W 2.2K
R207	ERJ6GEYJ182V	1/10W 1.8K
R208	ERJ6GEYJ222V	1/10W 2.2K
R209-211	ERJ6GEYJ4R7V	1/10W 4.7
R212, 213	ERJ6GEYJ152V	1/10W 1.5K
R214	ERJ6GEYJ822V	1/10W 8.2K
R215	ERJ6GEYJ101V	1/10W 100
R216	ERJ8GEYJ222V	1/8W 2.2K
R301, 302	ERDS2TJ222	1/4W 2.2K
R304	ERDS2TJ102	1/4W 1K
R305	ERDS2TJ682T	1/4W 6.8K
R306	ERDS2TJ271	1/4W 270
R308	ERDS2TJ1R0	1/4W 1.0
R309, 310	ERDS2TJ100	1/4W 10
R311, 312	ERDS2TJ183T	1/4W 18K
R313, 314	ERDS2TJ101	1/4W 100
R315, 316	ERDS2TJ154	1/4W 150K
R317, 318	ERDS2TJ333	1/4W 33K
R319	ERDS2TJ102	1/4W 1K
R320	ERDS2TJ822	1/4W 8.2K

Ref. No.	Part No.	Values & Remarks
R321	ERDS2TJ272T	1/4W 2.7K
R401, 402	ERDS2TJ562	1/4W 5.6K
R403, 404	ERDS2TJ243T	1/4W 24K
R405, 406	ERDS2TJ473	1/4W 47K
R407, 408	ERDS2TJ561	1/4W 560
R409	ERDS2TJ273	1/4W 27K
R410	ERDS2TJ151	1/4W 150
R451, 452	ERDS2TJ562	1/4W 5.6K
R453, 454	ERDS2TJ243T	1/4W 24K
R455, 456	ERDS2TJ222	1/4W 2.2K
R457, 458	ERDS2TJ332	1/4W 3.3K
R459, 460	ERDS2TJ242	1/4W 2.4K
R461-464	ERDS2TJ684	1/4W 680K
R465, 466	ERDS2TJ561	1/4W 560
R467	ERDS2TJ273	1/4W 27K
R468	ERDS2TJ151	1/4W 150
R469, 470	ERDS2TJ473	1/4W 47K
R471-474	ERDS2TJ222	1/4W 2.2K
R501	ERDS2TJ223	1/4W 22K
R502	ERDS2TJ821	1/4W 820
R503	ERDS2TJ223	1/4W 22K
R504	ERDS2TJ821	1/4W 820
R505	ERG1SJ150E	1W 15
R506	ERG1SJ180E	1W 18
R507, 508	ERDS2TJ472	1/4W 4.7K
R509	ERDS2TJ223	1/4W 22K
R510	ERDS2TJ821	1/4W 820
R511	ERDS2TJ822	1/4W 8.2K

Ref. No.	Part No.	Values & Remarks
R512	ERDS2TJ182	1/4W 1.8K
R513	ERDS2TJ682T	1/4W 6.8K
R514	ERDS2TJ152	1/4W 1.5K
R515	ERDS2TJ332	1/4W 3.3K
R516	ERDS2TJ103	1/4W 10K
R517	ERDS2TJ223	1/4W 22K
R518	ERDS2TJ821	1/4W 820
R519	ERDS2TJ103	1/4W 10K
R520	ERDS2TJ102	1/4W 1K
R521, 522	ERDS1FVJ180T	1/2W 18 ⚠
R523	ERDS2TJ332	1/4W 3.3K
R524	ERDS2TJ222	1/4W 2.2K
R525	ERDS2TJ473	1/4W 47K
R526	ERDS2TJ223	1/4W 22K
R527	ERDS2TJ562	1/4W 5.6K
R528	ERDS2TJ682T	1/4W 6.8K
R529, 530	ERDS2TJ103	1/4W 10K
R531	ERDS2TJ105T	1/4W 1M
R532	ERDS2TJ102	1/4W 1K
R533	ERDS2TJ103	1/4W 10K
R534	ERDS2TJ471	1/4W 470
R535, 536	ERDS2TJ103	1/4W 10K
R537, 538	ERDS2TJ472	1/4W 4.7K
R539, 540	ERDS2TJ681	1/4W 680
R542, 543	ERDS1FVJ3R3T	1/2W 3.3 ⚠
R544	ERDS2TJ331	1/4W 330
R545	ERDS2TJ102	1/4W 1K
R546	ERDS2TJ332	1/4W 3.3K
R547	ERDS2TJ222	1/4W 2.2K
R548, 549	ERDS2TJ472	1/4W 4.7K
R550	ERDS2TJ101	1/4W 100
R551, 552	ERDS2TJ103	1/4W 10K
R553	ERDS2TJ101	1/4W 100
R601, 602	ERDS2TJ472	1/4W 4.7K
R603	ERDS2TJ103	1/4W 10K
R604	ERDS2TJ472	1/4W 4.7K
R605	ERD2FCVJ4R7T	1/4W 4.7 ⚠
R606, 607	ERD2FCVJ6R8T	1/4W 6.8 ⚠
R608, 609	ERDS2TJ561	1/4W 560
R610, 611	ERDS2TJ101	1/4W 100
R612	ERD2FCVG270T	1/4W 27 ⚠
R614	ERD2FCVG270T	1/4W 27 ⚠
R615, 616	ERDS2TJ222	1/4W 2.2K
R617, 618	ERDS2TJ101	1/4W 100
R619	ERD2FCVG100T	1/4W 10 ⚠
R620, 621	ERDS2TJ391	1/4W 390
R622	ERD2FCVG100T	1/4W 10 ⚠
R623	ERD2FCVG330T	1/4W 33 ⚠
R624	ERDS2TJ471	1/4W 470
R625-636	ERDS2TJ470	1/4W 47
R637	ERDS2TJ223	1/4W 22K
R640-642	ERG1SJ390E	1W 39

Ref. No.	Part No.	Values & Remarks
R701	ERDS2TJ821	1/4W 820
R702	ERDS2TJ102	1/4W 1K
R703	ERDS2TJ122	1/4W 1.2K
R704	ERDS2TJ152	1/4W 1.5K
R705	ERDS2TJ182	1/4W 1.8K
R706	ERDS2TJ222	1/4W 2.2K
R707	ERDS2TJ332	1/4W 3.3K
R708	ERDS2TJ472	1/4W 4.7K
R709	ERDS2TJ682T	1/4W 6.8K
R710	ERDS2TJ123	1/4W 12K
R711	ERDS2TJ821	1/4W 820
R712	ERDS2TJ102	1/4W 1K
R713	ERDS2TJ122	1/4W 1.2K
R714	ERDS2TJ152	1/4W 1.5K
R715	ERDS2TJ182	1/4W 1.8K
R716	ERDS2TJ222	1/4W 2.2K
R717	ERDS2TJ332	1/4W 3.3K
R718	ERDS2TJ472	1/4W 4.7K
R719	ERDS2TJ271	1/4W 270
R720	ERDS2TJ181T	1/4W 180
R721	ERDS2TJ472	1/4W 4.7K
R722	ERDS2TJ332	1/4W 3.3K
R723, 724	ERDS2TJ180T	1/4W 18
R725, 726	ERDS2TJ332	1/4W 3.3K
R727, 728	ERDS2TJ330	1/4W 33
R729, 730	ERDS2TJ100	1/4W 10
R731, 732	ERDS2TJ102	1/4W 1K
R733, 734	ERDS2TJ472	1/4W 4.7K
R901	ERDS2TJ222	1/4W 2.2K
R902	ERDS2TJ823T	1/4W 82K
R903	ERDS2TJ101	1/4W 100
R904	ERDS2TJ393	1/4W 39K
R905	ERDS2TJ822	1/4W 8.2K
R906	ERDS2TJ102	1/4W 1K
R907	ERDS2TJ473	1/4W 47K
R908	ERDS2TJ223	1/4W 22K
R909, 910	ERDS2TJ563	1/4W 56K
R911, 912	ERDS2TJ393	1/4W 39K
R913, 914	ERDS2TJ220T	1/4W 22
R915, 916	ERDS2TJ101	1/4W 100
R917, 918	ERDS2TJ152	1/4W 1.5K
R920	ERDS2TJ152	1/4W 1.5K
R921	ERDS2TJ220T	1/4W 22
R922	ERDS2TJ392T	1/4W 3.9K
R923	ERDS2TJ103	1/4W 10K
R924	ERDS2TJ332	1/4W 3.3K
R925, 926	ERDS2TJ472	1/4W 4.7K
R927	ERDS2TJ223	1/4W 22K
R928	ERDS2TJ123	1/4W 12K
R929	ERDS2TJ682T	1/4W 6.8K
R930	ERDS2TJ473	1/4W 47K
R931	ERDS2TJ102	1/4W 1K

Ref. No.	Part No.	Values & Remarks
R932, 933	ERDS2TJ103	1/4W 10K
R934	ERDS2TJ333	1/4W 33K
R935	ERDS2TJ103	1/4W 10K
R936	ERDS2TJ392T	1/4W 3.9K
R937	ERDS2TJ272T	1/4W 2.7K
R938	ERDS2TJ103	1/4W 10K
R939	ERDS2TJ822	1/4W 8.2K
R940	ERDS2TJ472	1/4W 4.7K
R941	ERDS2TJ102	1/4W 1K
R942	ERDS2TJ560T	1/4W 56
R943	ERDS2TJ103	1/4W 10K
R944	ERDS2TJ1R0	1/4W 1.0
R945	ERDS2TJ391	1/4W 390
R946	ERDS2TJ101	1/4W 100
R947	ERDS2TJ333	1/4W 33K
R948, 949	ERDS2TJ473	1/4W 47K
R950	ERDS2TJ223	1/4W 22K
R951	ERDS2TJ821	1/4W 820
R953	ERDS2TJ273	1/4W 27K
R954	ERDS2TJ392T	1/4W 3.9K
R955	ERDS2TJ273	1/4W 27K
R956, 957	ERDS2TJ271	1/4W 270
R958	ERDS2TJ472	1/4W 4.7K
R959	ERDS2TJ222	1/4W 2.2K
R960	ERDS2TJ392T	1/4W 3.9K
R961	ERDS2TJ473	1/4W 47K
R962	ERDS2TJ821	1/4W 820
R963, 964	ERDS2TJ153	1/4W 15K
R965	ERDS2TJ682T	1/4W 6.8K
R966	ERDS2TJ103	1/4W 10K
R967	ERDS2TJ223	1/4W 22K
R968	ERDS2TJ103	1/4W 10K
R969	ERDS2TJ562	1/4W 5.6K
R970	ERDS2TJ332	1/4W 3.3K
R971	ERDS2TJ272T	1/4W 2.7K
R971A	ERDS2TJ221	1/4W 220
R972	ERDS2TJ272T	1/4W 2.7K
R972A	ERDS2TJ183T	1/4W 18K
R973	ERDS2TJ822	1/4W 8.2K
R973A	ERDS2TJ221	1/4W 220
R974	ERDS2TJ822	1/4W 8.2K
R974A	ERDS2TJ183T	1/4W 18K
R975	ERDS2TJ103	1/4W 10K
R976	ERDS2TJ273	1/4W 27K
R977	ERDS2TJ473	1/4W 47K
R978	ERDS2TJ393	1/4W 39K
R979	ERDS2TJ473	1/4W 47K
R980	ERDS2TJ393	1/4W 39K
R981, 982	ERDS2TJ822	1/4W 8.2K
R983	ERDS2TJ181T	1/4W 180
		CHIP JUMPER(S)

Ref. No.	Part No.	Values & Remarks
J201-206	ERJ6GEY0R00V	CHIP JUMPER
		CAPACITORS
C1, 2	ECBT1H221KB5	50V 220P
C3, 4	ECEA0JK101	6.3V 100U
C5, 6	ECQB1H562JF3	50V 5600P
C7, 8	ECQB1H152JF3	50V 1500P
C9, 10	ECBT1H470J5	50V 47P
C11, 12	ECEA1CK100B	16V 10U
C13, 14	ECQB1H152JF3	50V 1500P
C15, 16	ECQB1H153JF3	50V 0.015U
C17, 18	ECQP1121JZ3	100V 120P
C19, 20	ECEA1EK4R7	25V 4.7U
C21, 22	ECBT1H101KB5	50V 100P
C23, 24	ECQB1H562JF3	50V 5600P
C25, 26	ECBT1H221KB5	50V 220P
C27, 28	ECEA1HKR33	50V 0.33U
C29, 30	ECEA1CK100B	16V 10U
C31, 32	ECQV1H683JZ3	50V 0.068U
C33, 34	ECQB1H333JF3	50V 0.033U
C35, 36	ECQB1H183JF3	50V 0.018U
C37, 38	ECQV1H473JZ3	50V 0.047U
C39, 40	ECQB1H123JF3	50V 0.012U
C43, 44	ECQB1H223JF3	50V 0.022U
C45, 46	ECEA1CK100B	16V 10U
C47, 48	ECKR1H103ZF5	50V 0.01U
C49, 50	ECEA1HK010B	50V 1U
C51, 52	ECEA1HK0R1	50V 0.1U
C201	ECUV1E153KBN	25V 0.015U
C202	ECUV1E104KBN	25V 0.1U
C203, 204	ECEV1CA100R	16V 10U
C205	ECUV1E104ZFN	25V 0.1U
C206	ECUV1E104KBN	25V 0.1U
C209-211	ECEV1EN100R	25V 10U
C212-214	ECUV1H103ZFN	50V 0.01U
C215	ECUV1H472ZFN	50V 4700P
C216	ECUV1E562KBN	25V 5600P
C217-219	ECUV1E104ZFN	25V 0.1U
C301-304	ECKR1H103ZF5	50V 0.01U
C305, 306	ECKW1H222KB5	50V 2200P
C307	ECKD1H682KB	50V 6800P
C308	ECKR1H392KB5	50V 3900P
C309	ECEA1EK4R7	25V 4.7U
C310	ECQP1153JZ	100V 0.015U
C311, 312	ECBT1H470J5	50V 47P
C313, 314	ECKR1H473ZF5	50V 0.047U
C315, 316	ECKR2H821KB5	500V 820P
C317, 318	ECBT1H121KB5	50V 120P
C319, 320	ECQV1H563JZ3	50V 0.056U
C321, 322	ECQB1H223JF3	50V 0.022U

Ref. No.	Part No.	Values & Remarks
C323, 324	ECQB1H103JF3	50V 0.01U
C325, 326	ECBT1H561KB5	50V 560P
C327, 328	ECEA1EK100	25V 10U
C329, 330	ECKR1H473ZF5	50V 0.047U
C401-404	ECQB1H222JF3	50V 2200P
C405, 406	ECEA1HUR56B	50V 0.56U
C407, 408	ECEA1HKR33	50V 0.33U
C409, 410	ECEA1EK4R7	25V 4.7U
C451, 452	ECKT1H122KB	50V 1200P
C453, 454	ECKD1H152KB	50V 1500P
C455, 456	ECEA1EK4R7	25V 4.7U
C457-460	ECQB1H222JF3	50V 2200P
C461, 462	ECEA1HUR56B	50V 0.56U
C463, 464	ECEA1HKR33	50V 0.33U
C465, 466	ECEA1EK4R7	25V 4.7U
C501	ECEA1HK010B	50V 1U
C502	ECBT1E103ZF	25V 0.01U
C503	ECEA1CN100SB	16V 10U
C504	ECEA1HK010B	50V 1U
C505	ECKR1H103ZF5	50V 0.01U
C506	ECEA0JU470B	6.3V 47U
C507	ECEA1EK4R7	25V 4.7U
C508, 509	ECEA1VK100B	35V 10U
C510	ECEA1CN100SB	16V 10U
C511	ECBT1E103ZF	25V 0.01U
C512	ECEA0JU470B	6.3V 47U
C602	ECKR2H682PE	500V 6800P
C603	ECEA1HU221B	50V 220U
C605	ECKR2H682PE	500V 6800P
C606, 607	ECEA1EU222B	25V 2200U
C608	ECKR1H103ZF5	50V 0.01U
C609	ECEA1AU221	10V 220U
C610	ECEA1AU101	10V 100U
C611-616	ECKR1H103ZF5	50V 0.01U
C617	ECEA1AU101	10V 100U
C618	ECEA1EU222B	25V 2200U
C619-624	ECEA1AU102B	10V 1000U
C625, 626	ECEA1HK010B	50V 1U
C701, 702	ECEA1HK010B	50V 1U
C703	ECKR1H103ZF5	50V 0.01U
C901	ECQB1H822JF3	50V 8200P
C902	ECEA1CK100B	16V 10U
C903	ECBT1H470J5	50V 47P
C904	ECEA1HK010B	50V 1U
C905, 906	ECEA1AU101	10V 100U
C907	ECEA0JK101	6.3V 100U
C908	ECEA1AK101	10V 100U
C909	ECBT1E103ZF	25V 0.01U
C910	ECEA1CK330	16V 33U
C911	ECEA0JU222B	6.3V 2200U
C912	ECEA0JK101	6.3V 100U
C913, 914	ECKR1H103ZF5	50V 0.01U

Ref. No.	Part No.	Values & Remarks
C915, 916	ECQB1H122JF3	50V 1200P
C917, 918	ECEA1CK100B	16V 10U
C919, 920	ECQB1H103JF3	50V 0.01U
C921	ECQB1H332JF3	50V 3300P
C922	ECQB1H273JF3	50V 0.027U
C923	ECEA1CK100B	16V 10U
C925	ECKT1H223ZF	50V 0.022U

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