

Service Manual

Dolby NR-Equipped
Stereo Cassette Deck

Cassette Deck
RS-BX404

 **DOLBY B·C NR HX PRO**



Color
(K)... Black Type

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

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RS-B755 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/Playback head (Permalloy)×1 Erasing head (Double-gap ferrite)×1
Motors	Capstan drive (DC servo motor)×1 Reel table drive (DC motor)×1
Tape speed	4.8 cm/sec. (1 ⁷ / ₈ ips)
Wow and flutter	0.07% (WRMS) ±0.2% (DIN)
Fast forward and rewind times	Approx. 90 seconds with C-60 cassette tape
Frequency response (Dolby NR off)	
NORMAL	30 Hz~15 kHz, ±3 dB 30 Hz~15 kHz (DIN)
CrO ₂	30 Hz~16 kHz, ±3 dB 30 Hz~16 kHz (DIN)
METAL	30 Hz~17 kHz, ±3 dB 30 Hz~17 kHz (DIN)

S/N (signal level=max recording level, CrO ₂ type tape)	
NR off	56 dB (A weighted)
Dolby B NR on	66 dB (CCIR)
Dolby C NR on	74 dB (CCIR)
Input sensitivity and impedance	
MIC	0.25 mV/600Ω~10 kΩ
LINE IN	60 mV/47 kΩ
Output voltage and impedance	
LINE OUT	400 mV/800Ω
HEADPHONES	30 mV/(8Ω) (Load impedance 8Ω~600Ω)

GENERAL

Power consumption	16 W
Power supply	
For Continental Europe, F.R. Germany and Italy	AC 50 Hz/60 Hz, 230 V
For Great Britain	AC 50 Hz/60 Hz, 230~240 V
Dimensions (W×H×D)	430×125×290mm (16 ¹⁵ / ₁₆ "×4 ¹⁵ / ₁₆ "×11 ¹³ / ₃₂ ")
Weight	4.3 kg (9.5 lb.)

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

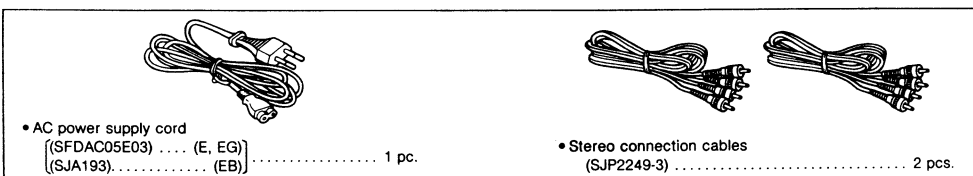
Technics

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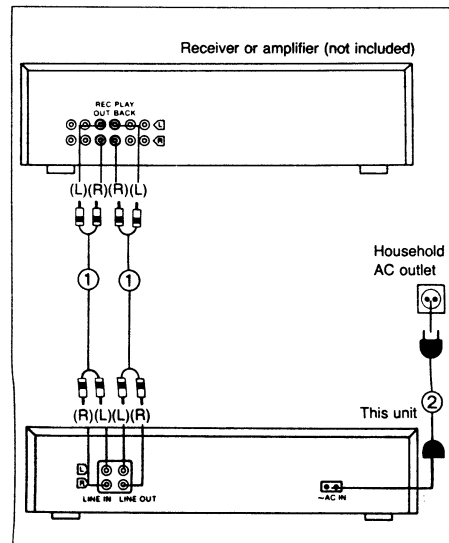
ACCESSORIES



CONNECTIONS

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

- 1 Connect the stereo connection cables.
- 2 Connect the AC power supply cord.

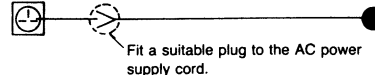


AC power supply cord (2)

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

For United Kingdom

Household AC outlet



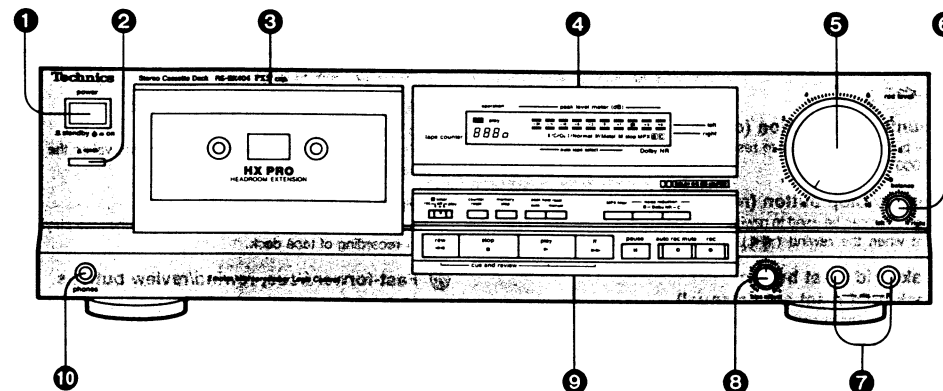
Placement hints

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 there is the least amount of "hum".

Note:

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

FRONT PANEL CONTROLS AND FUNCTIONS



Control section

- 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 Eject button (⏏ eject)

This button can be used to open the cassette holder.

- 3 Cassette holder

- 4 Display section

- 5 Recording-level control (rec level)

This control can be used to regulate the recording level.

- 6 Recording-balance control (balance)

This control can be used to balance the left and right sound levels during recording.

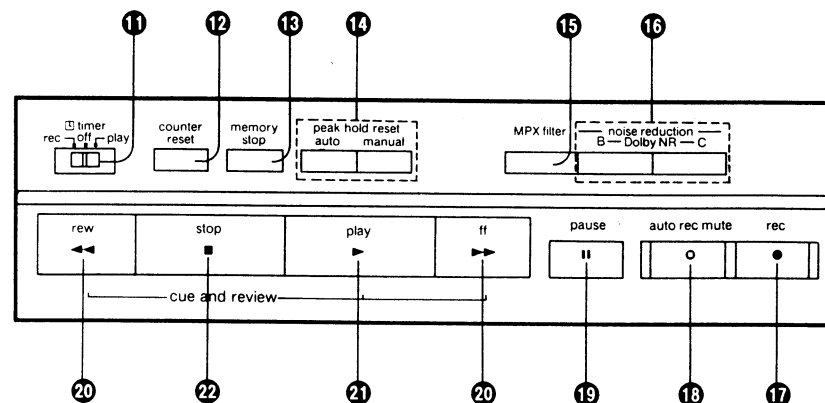
- 7 Microphone jacks (mic)

- 8 Bias-adjustment control (bias adjust)

The frequency response for each tape type can be equalised by using this control.

- 9 Operation section

- 10 Headphones jack (phones)



Operation section

11 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).

12 Counter reset button (counter reset)

This button can be used to reset the tape counter indication to "000".

13 Memory-stop button (memory stop)

This button can be used to rewind the tape to the preset "000" point when the rewind (◀◀) button is pressed.

14 Peak hold reset button (peak hold reset auto/manual)

Auto: The peak level of the source is held and displayed for approximately one second at a time.

Manual: The peak level of the source is held and displayed continuously. To reset the peak hold function, press this button once again.

15 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.

16 Dolby noise-reduction buttons (noise reduction)

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

17 Record button (● rec)

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

18 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.

19 Pause button (⏸ pause)

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

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

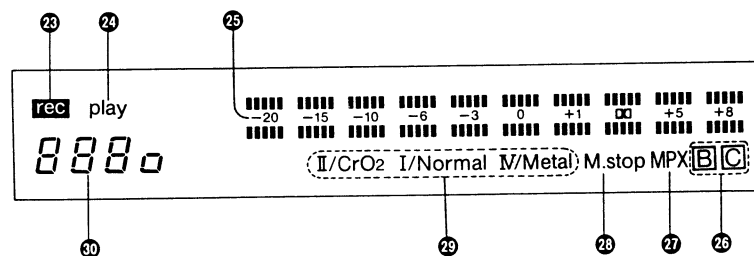
These buttons can be used to advance or rewind the tape. During playback these buttons are used to cue or review while listening to the contents at high speed.

21 Playback button (▶ 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.)

22 Stop button (■ stop)

This button can be used to stop tape movement.



Display section

23 Recording indicator (rec)

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

24 Playback indicator (play)

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.

25 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.

26 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.

27 Multiplex filter indicator (MPX)

Illuminates to indicate that the multiplex filter is set to "on".

28 Memory-stop indicator (M.stop)

This indicator illuminates to indicate that this tape deck is in the memory stop mode.

29 Tape-select indicators

The type of tape being used will be automatically detected and the indicator will illuminate.

30 Tape counter

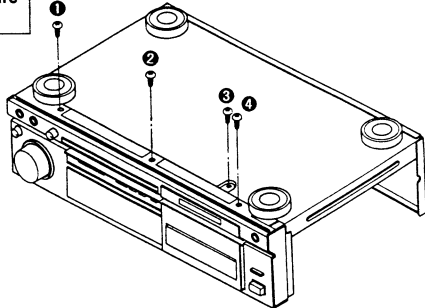
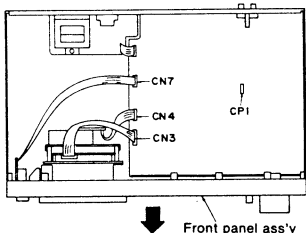
Indicates the amount of tape movement.

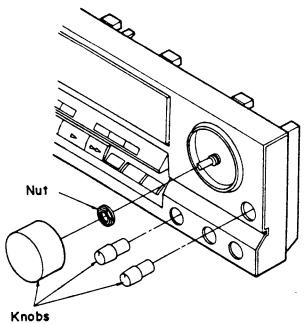
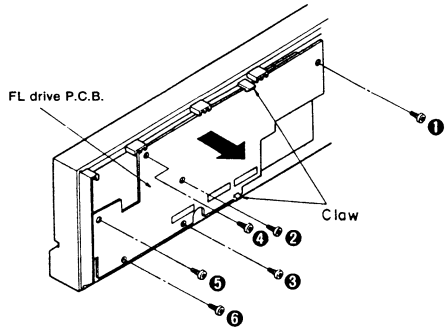
DISASSEMBLY INSTRUCTIONS

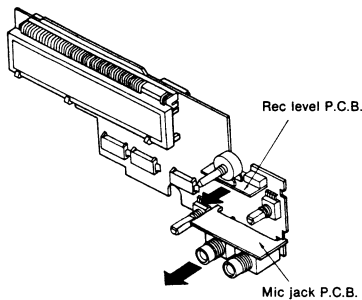
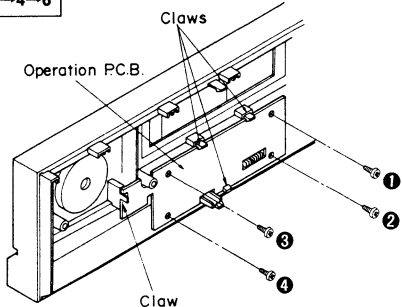
"ATTENTION SERVICER"

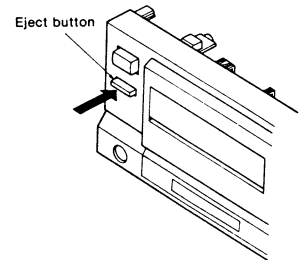
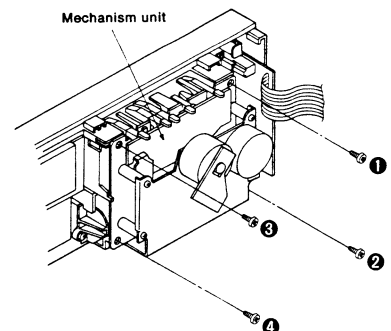
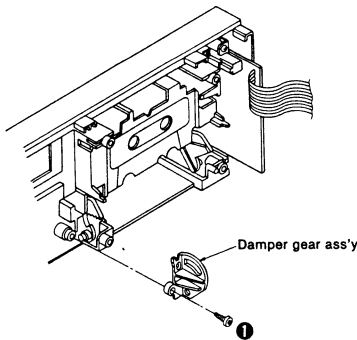
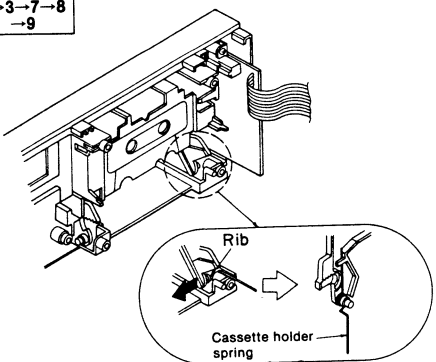
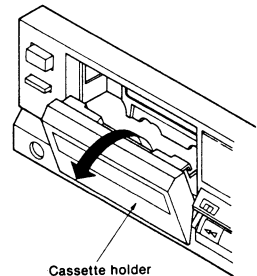
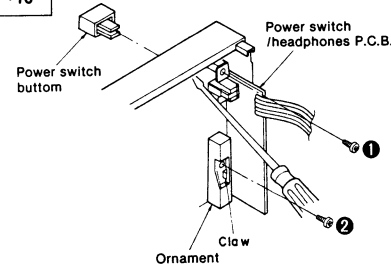
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the cabinet	Ref. No. 2	Removal of the main P.C.B.
Procedure 1	• Remove the 6 screws (1~6).	Procedure 1~2 1. Remove the 7 screws (1~7). 2. Remove the rear panel from the projection of the bottom board ass'y.	
	3. Remove the 6 screws (8~13). 4. Remove the 1 connector (CP1). 5. Remove the 4 flat cables (CN2, CN3, CN4, CN7). 6. Remove the main P.C.B. in the direction of arrow.		
	How to remove the flat cable • Pull out the flat cable while pressing the connector.	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 (1, 3, 7~15) in above figure. 2. Remove the 5 screws (16~20). 3. Remove the front panel ass'y in the direction of arrow A.	4. Remove the bottom board ass'y in the direction of arrow B. 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 4 screws (1~4).
	2. Remove the 1 connector (CP1). 3. Remove the 3 flat cables (CN3, CN4, CN7).  4. Remove the front panel in the direction of arrow.

Ref. No. 4	Removal of the FL drive P.C.B.
Procedure 1→3→4	 1. Pull out the 3 knobs. 2. Remove the 1 nut.  3. Remove the 6 screws (1~6). 4. Release the 2 claws. 5. Remove the FL drive P.C.B. in the direction of arrow.

Ref. No. 5	Removal of the rec level P.C.B. and mic jack P.C.B.
Procedure 1→3→4→5	 ■ Removal of the rec level P.C.B. • Remove the rec level P.C.B. in the direction of arrow. ■ Removal of the mic jack P.C.B. • Remove the mic jack P.C.B. in the direction of arrow.
Ref. No. 6	Removal of the operation P.C.B.
Procedure 1→3→4→6	 1. Remove the 4 screws (1~4). 2. Release the 4 claws.

Ref. No. 7	Removal of the mechanism unit
Procedure 1→3→7	 1. Push the eject button.  2. Remove the 4 screws (1~4).
Ref. No. 8	Removal of the damper gear ass'y
Procedure 1→3→7→8	 • Remove the 1 screw (1).
Ref. No. 9	Removal of the cassette holder
Procedure 1→3→7→8→9	 1. Remove the rib in the direction of arrow. 2. Remove the cassette holder spring.  3. Pull out the cassette holder in the direction of arrow.
Ref. No. 10	Removal of the power switch/ headphones P.C.B.
Procedure 1→3→10	 1. Remove the power switch button by pushing it from behind the front panel ass'y. 2. Remove the 2 screws (1, 2). 3. Release the 1 claw. 4. Remove the ornament.

Ref. No. 11	Removal of the eject lever and eject button
----------------	---

Procedure
1→3→10
→11

1. Push the claw in the direction of arrow A.
2. Remove the eject lever in the direction of arrow B.
3. Pull out the eject button.

Ref. No. 12	Removal of the power supply P.C.B.
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Procedure
1→12

1. Remove the 1 flat cable (CN2).
2. Remove the 4 screws (1-4).

MEASUREMENT AND ADJUSTMENT METHODES

Measurement Condition

- Rec. level control; Maximum
- Timer switch; Off
- Dolby noise reduction switch; Off
- MPX filter switch; Off

Measuring instrument

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

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

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

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

- 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

HEAD AZIMUTH ADJUSTMENT

1. Playback the azimuth adjustment 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.

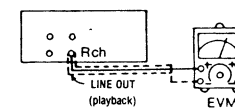


Fig.1

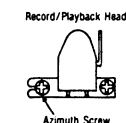


Fig.2

TAPE SPEED ADJUSTMENT

1. Playback the middle portion of the test tape (QZZCWAT).
2. Adjust the VR901 so that the output is within the standard value.

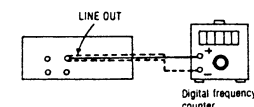


Fig.3

Standard value: $3000 \pm 15\text{Hz}$

PLAYBACK GAIN ADJUSTMENT

1. Playback the gain adjusted portion (315 Hz, 0 dB) of the test tape (QZZCFM).
2. Adjust VR1 (L-CH) and VR2 (R-CH) so that the output is within the standard value.

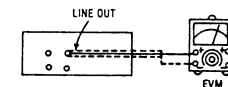


Fig.4

Standard value: $0.4\text{V} \pm 0.5\text{dB}$

PLAYBACK FREQUENCY RESPONSE

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

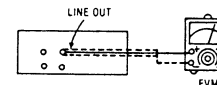


Fig.5

Playback frequency response chart

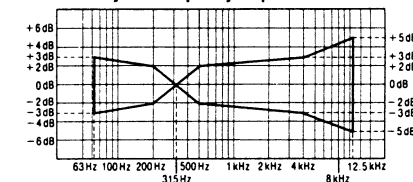


Fig.6

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 (1 kHz, -24 dB). Attenuate the output so that its level becomes 0V.
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 VR3 (L-CH) and VR4 (R-CH).
6. Repeat the step 2 ~ 5 above until the output is within the standard value.

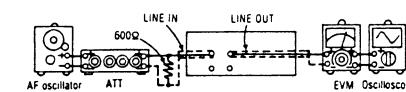


Fig.7

Standard value: $0.4\text{V} \pm 0.5\text{dB}$

OVERALL FREQUENCY RESPONSE

1. Insert the a Normal blank test tape (QZZCRA) and set the unit to the Record Pause mode.
2. Apply a reference input signal (1 kHz, -24 dB) through an attenuator.
3. Attenuate the signal by 20 dB and adjust the frequency from 50 Hz ~ 10.0 kHz.
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 (1 kHz).
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.
7. Repeat steps 2 ~ 6 above using the CrO₂ tape (QZZCRX) and the Metal tape (QZZCRZ) increasing the frequency range to 12.5 kHz (50 Hz ~ 12.5 kHz).
8. Assure that the level is within the range shown in Fig.9.

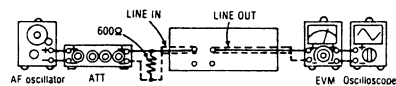


Fig.10

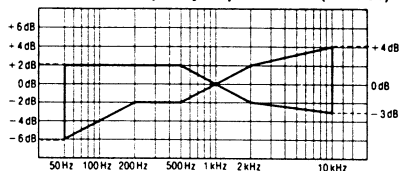
Normal Overall frequency response chart (NR OUT)

Fig.8

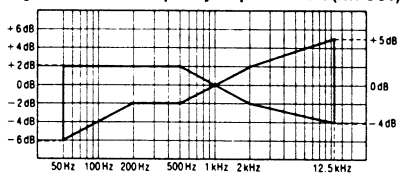
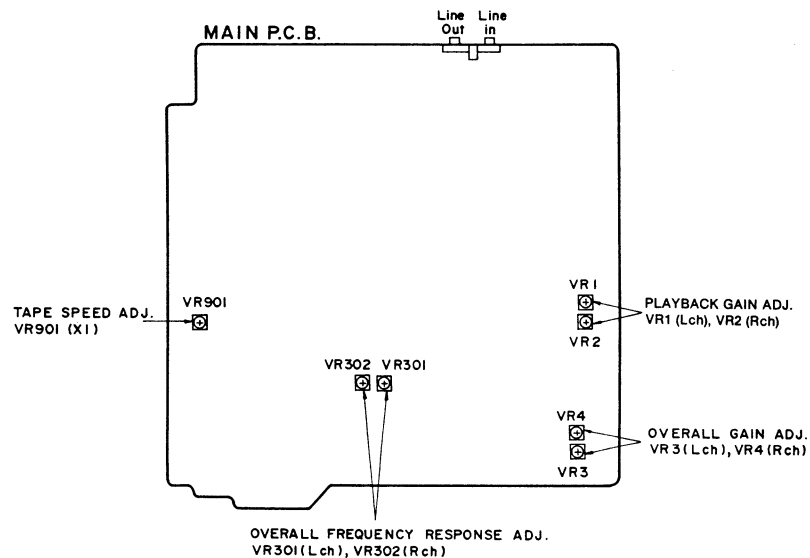
CrO₂-Metal Overall frequency response chart (NR OUT)

Fig.9

• Adjustment points



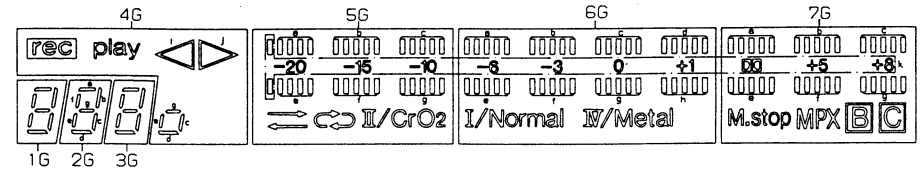
■ TERMINAL FUNCTION OF IC

• IC901 (M50940-263SP): Microcomputer

Pin No.	Mark	I/O Division	Function	Pin No.	Mark	I/O Division	Function
1	VREF	I	Reference Voltage terminal	24	POF	I	AC POWER off detect signal
2	1 WAY/ REV	I	Mechanism select signal (Not used, connected to GND)	25	REN	—	Not used, open
3	5.6/8.8	I	Remote control select (Not used, connected to GND)	26	CN V _{SS}	—	GND terminal
4	LCH	I	Lch level display	27	RESET	I	Reset signal ("L": reset)
5	RCH	I	Rch level display	28	X IN	I	Clock OSC terminal (4MHz)
6	KEY 2	I	Key SW input	29	X OUT	O	
7	KEY 1			30	XC IN	—	Not used, connected to GND
8	LTD	I	Reader tape det. signal	31	XC OUT	—	Not used, open
9	RPS	I	Rotation pulse det. signal	32	VSS	—	GND terminal
10	DMT	O	Line out mute signal ("H": ON, "L": OFF)	33	φ	—	System clock signal (Not used, open)
11	RMT	O	REC AMP mute signal ("H": ON "L": OFF)	34	RINH	I	Reverse rec inhibit
12	BOS	O	BIAS OSC ON/OFF control ("H": ON "L": OFF)	35	F INH	I	Forward rec inhibit
13	REC	O	Rec mode signal ("H": Rec "L": other)	36	MODE	I	Mechanism mode SW terminal
14	C	O	Dolby NR mode select signal ("L": Dolby C, "H": other)	37	HALF	I	Cassette half det. SW terminal
15	B	O	Dolby NR mode select signal ("L": Dolby B, "H": other)	38	Vp	I	Reference voltage terimal (Negative voltage)
16	MPX	O	MPX ON/OFF control signal ("L": ON, "H": OFF)	39	CSOL	O	Brake solenoid hold control signal
17	C/R	O	Cue/rev mode control ("H": cue/rev, "L": other)	40	BSOL	O	Brake solenoid trigger control signal
18	Remo	I	Remote control signal	41	TSOL	O	Trigger solenoid control signal
19	ARM	I	Auto rec mute key signal ("L": key on, "H" key off)	42 43	RMR RMF	O	Reel motor control
20	SYNC	I	Synchro start signal ("L": start, "H": stop)				
21 22	ATSC ATSM	I	Auto tape selector signal				
				Nor	CrO ₂	Metal	
			ATSC	L	H	H	
			ATSM	L	L	H	
23	WDT	O	Timer normal or abnormal select signal (Normal: "H", Abnormal: "L")				

■ INTERNAL CONNECTION OF FL

• Grid connection diagram



• Anode connection table

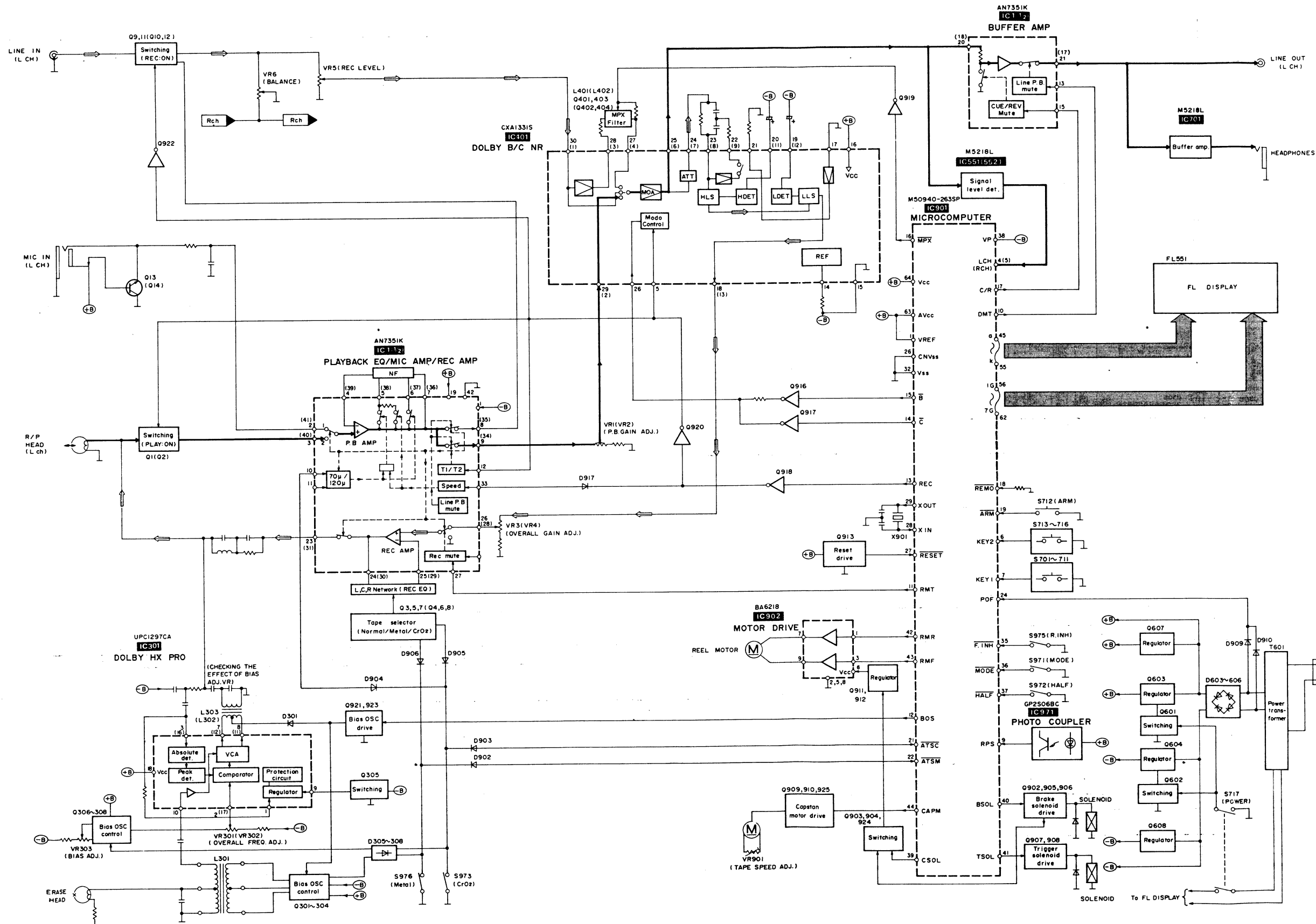
	1G	2G	3G	4G	5G	6G	7G
a	a	a	a	rec			
b	b	b	b	play			
c	c	c	c	c			
d	d	d	d	d	-		M.stop
e	e	e	e	e			
f	f	f	f	-			
g	g	g	g	g			
h	-	-	-	-	II/CrO2		MPX
i	-	-	-	◀	↔	I /Normal	B
j	-	-	-	▶	↻	IV /Metal	C
k	-	-	-	-	-20 -15 -10 -6 -3 0 +1	+5 +8	

• Pin connection

PIN NO.	42	41	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	F	F	N	N	N	a	b	c	d	e	f	g	h	i	j	k	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1	2	3	4	5	6	7	N	N	F	F
	2	2	P	P	P												C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	G	G	G	G	G	G	P	P	P	1	1

Note 1.)NP.....No pin.
2.)F1,F2.....Filament
3.)1G~7G.....Grid
4.)NC.....No connection

BLOCK DIAGRAM



TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

UPC1297CA 	CXA1331S 	AN7351K
M50940-263SP 	M5218AL 	BA6218
2SB621ARSTA 2SD592AQRSTA 		DTA114ESTP DTC114ESTP DTA144ESTP DTC144ESTP 2SC311AQSTA
2SB1357EFTA 2SD2037EFTA 		2SA1309AQSTA 2SB1030RSTA 2SD1450RSTA
2SK381BCDTA 	2SJ164PQRTA 	MA165TA MA167TA 1SR35200TB
	MA4051MTA MA4056HTA MA4062HTA MA4091MTA MA4056MTA	MA4120MTA MA4240MTA MA4330MTA



SCHEMATIC DIAGRAM

(Parts list on pages 33~36.)

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

Notes:

- **S701** : Stop switch (■ stop).
- **S702** : Fast-forward/cue switch (cue ►►).
- **S703** : Rewind/review switch (◄◄ review).
- **S704** : Playback switch (► play).
- **S706** : Record switch (● rec).
- **S707** : Pause switch (■ pause).
- **S708, 709** : Dolby noise-reduction switches (noise reduction).
[S708: Dolby NR C
S709: Dolby NR B]
- **S710** : Multiplex filter switch (MPX filter).
- **S711** : Timer switch (□ timer).
- **S712** : Automatic-record-muting switch (● auto rec mute).
- **S713** : Counter reset switch (counter reset).
- **S714** : Memory-stop switch (memory stop).
- **S715, 716** : Peak hold reset switches (peak hold reset auto/manual).
[S715: auto
S716: manual]
- **S717** : Power switch (power ■ standby ⏻ ■ on) in "on" position.
- **S971** : Mode switch in "off" position.
- **S972** : Cassette half detection switch in "off" position.
- **S973** : ATS (CrO₂) switch in "off" position.
- **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 (μ F) 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 Δ 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.

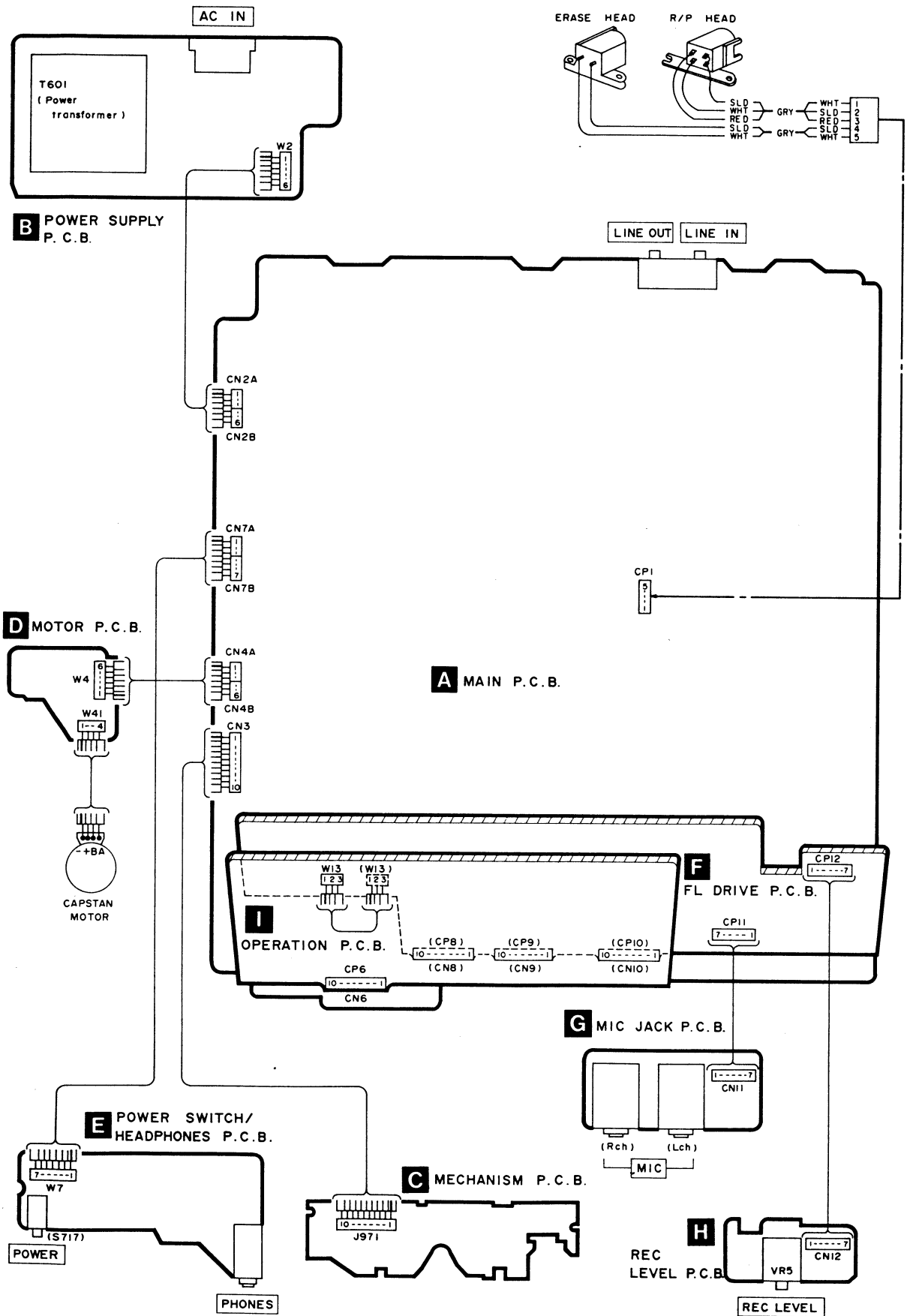
* Caution!

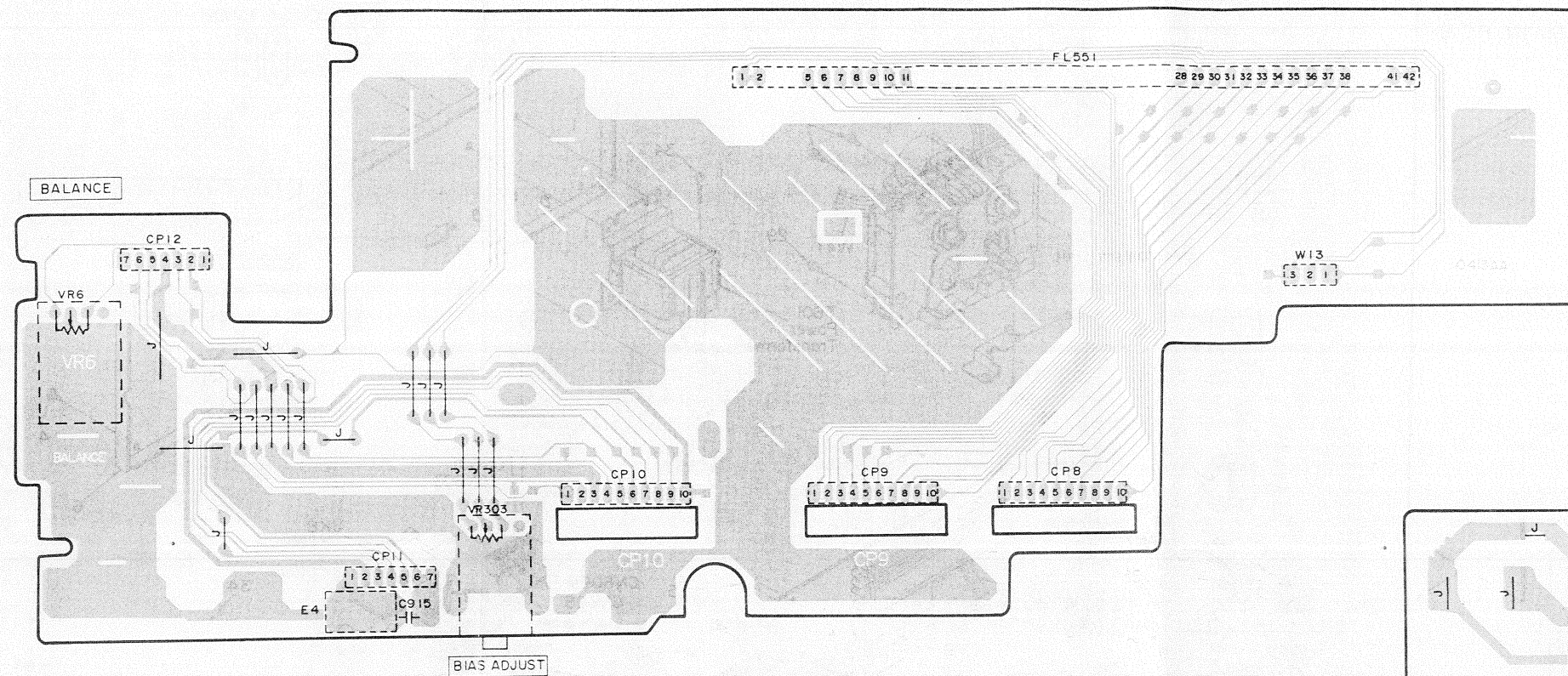
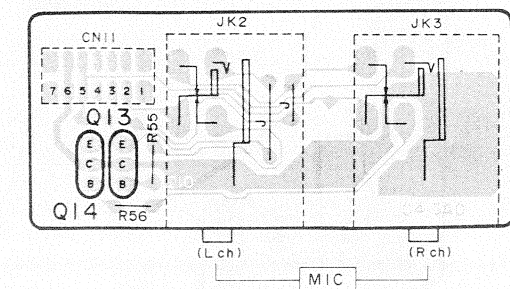
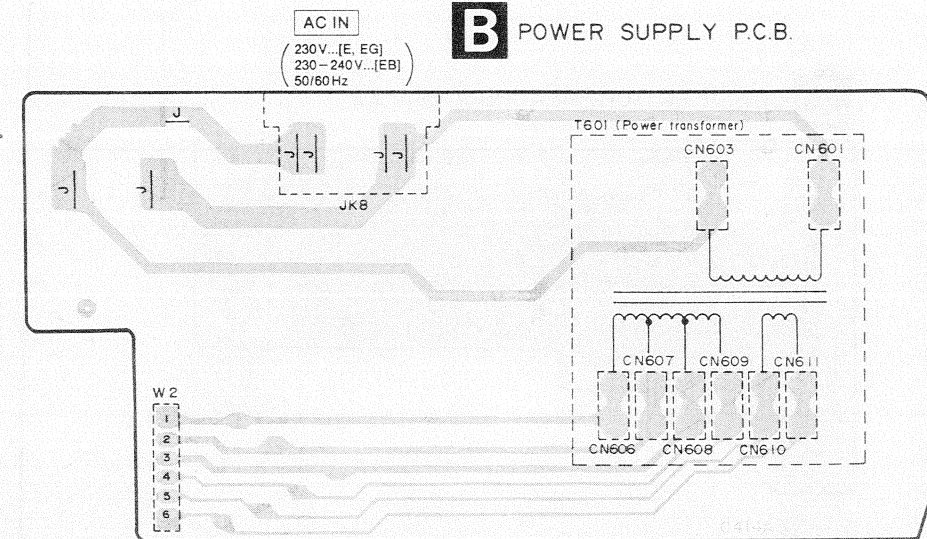
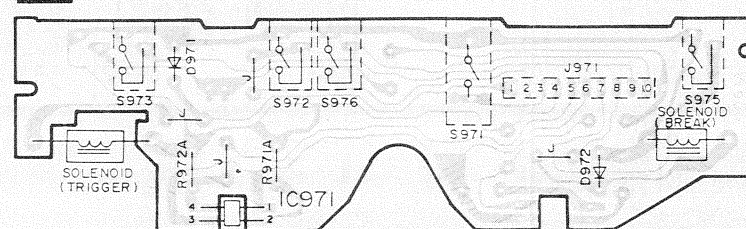
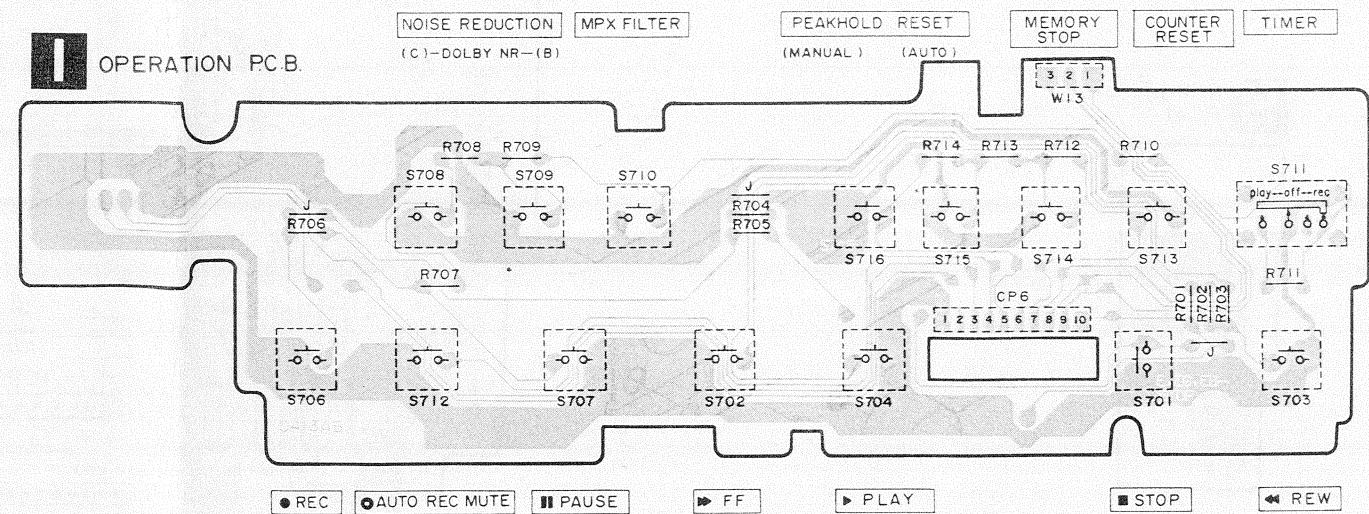
- IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- * Cover the parts boxes made of plastics with aluminum foil.
- * Ground the soldering iron.
- * Put a conductive mat on the work table.
- * Do not touch the legs of IC or LSI with the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

- The supply part number is described alone in the replacement parts list.

Ref. No.	Production Part No.	Supply Part No.
IC551, 701	M5218AL	M5218L

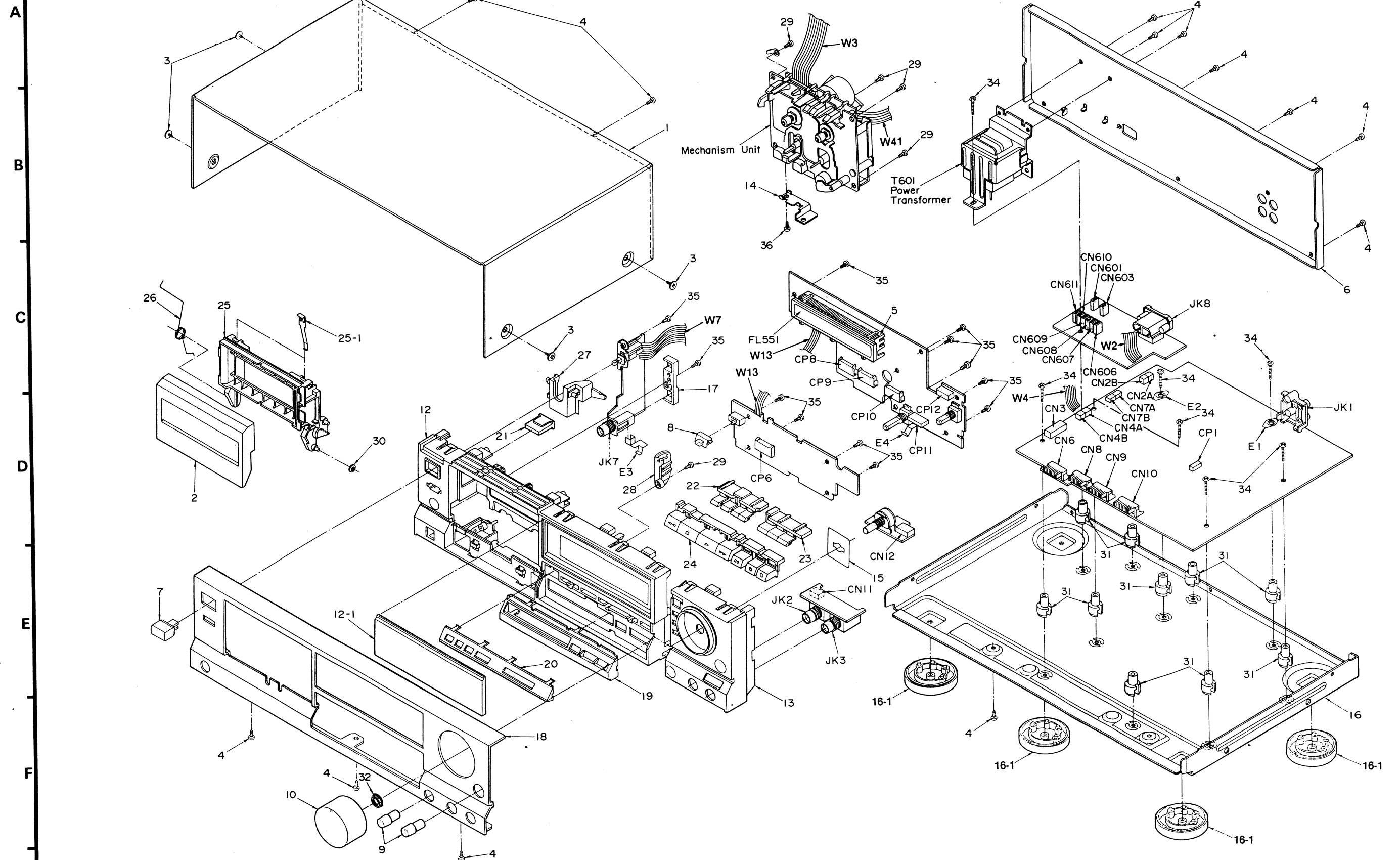
WIRING CONNECTION DIAGRAM



F FL DRIVE P.C.B.**G** MIC JACK P.C.B.**B** POWER SUPPLY P.C.B.**C** MECHANISM P.C.B.**I** OPERATION P.C.B.

EXPLODED VIEWS

• Cabinet parts



EXPLODED VIEWS

- Mechanical parts
- (Top view)

A

B

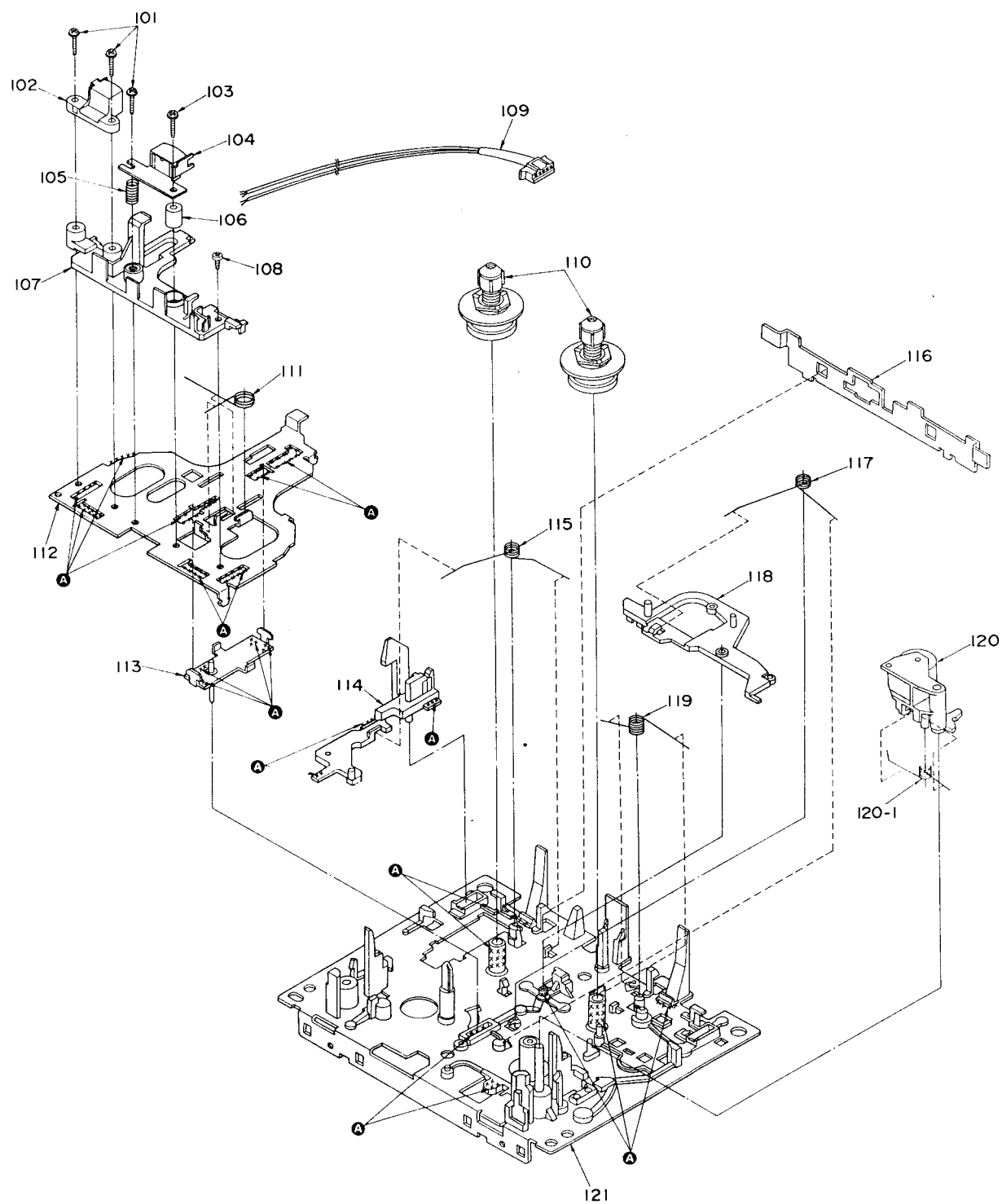
C

D

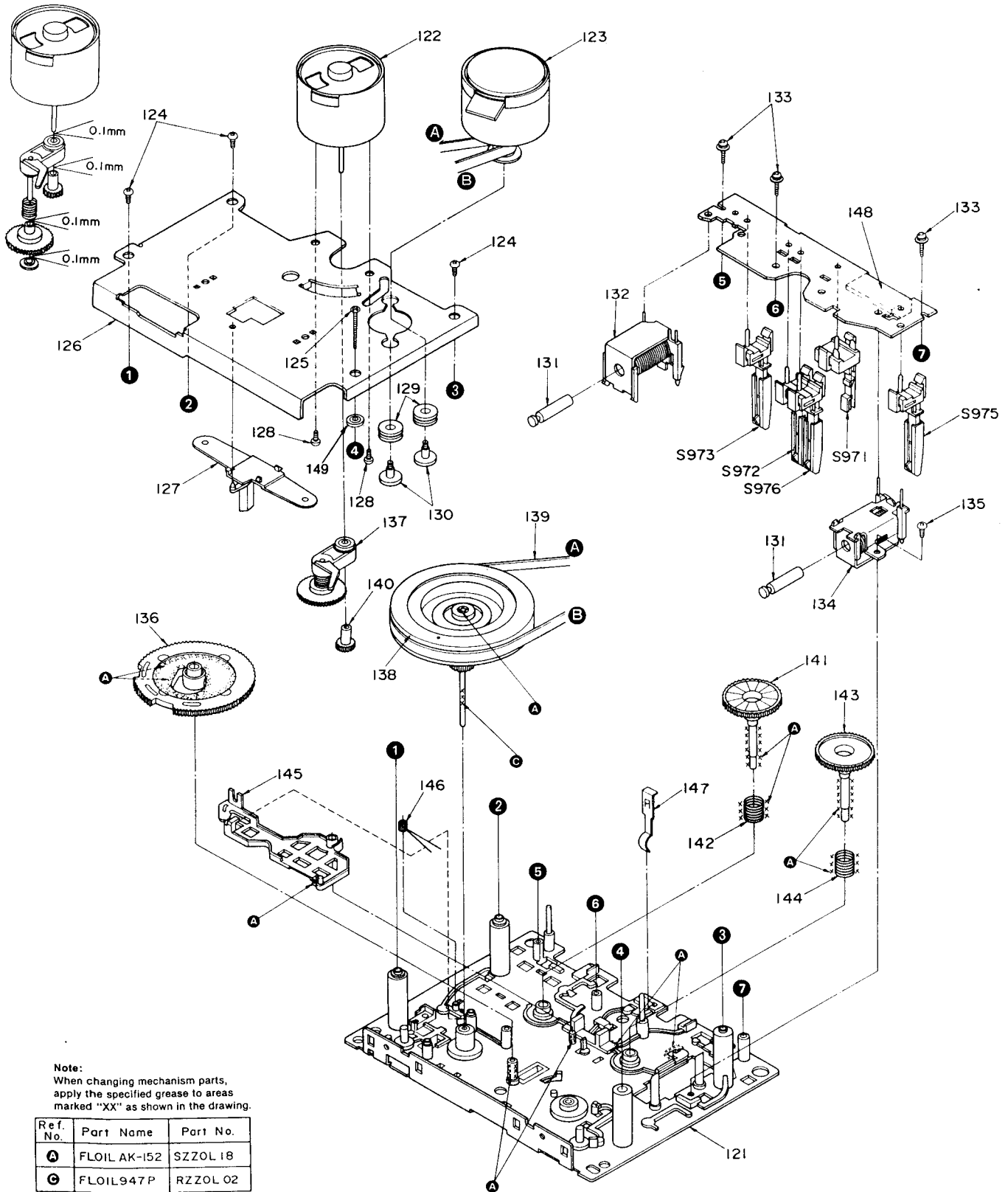
E

F

G



(Bottom view)



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.
 * 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	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q918	DTC144EKT96	TRANSISTOR	
				Q919, 920	DTA114ESTP	TRANSISTOR	
				Q921	2SB621A-R	TRANSISTOR	
IC1	AN7351K	PLAYBACK/REC AMP		Q922	DTA144ESTP	TRANSISTOR	
IC301	UPC1297CA	DOLBY HX PRO		Q923, 924	DTC114ESTP	TRANSISTOR	
IC401	CXA1331S	DOLBY B/C NR		Q925	2SD2037EFTA	TRANSISTOR	
IC551	M5218L	LEVEL METER AMP				DIODE (S)	
IC701	M5218L	HEADPHONES AMP					
IC901	M50940-263SP	MICROCOMPUTER; MECHANICAL		D1, 2	MA167	DIODE	
IC902	BA6218	REEL MOTOR CONTROL		D3-6	MA165	DIODE	
IC971	GP2S06BC	PHOTO COUPLER		D301	MA165	DIODE	
		TRANSISTOR(S)		D302	MA4056MTA	DIODE	
				D303-308	MA165	DIODE	
Q1, 2	2SJ164PQRTA	TRANSISTOR		D551, 552	MA165	DIODE	
Q3, 4	2SA1309A-R	TRANSISTOR		D601-607	1SR35200TB	DIODE	Δ
Q5-8	2SC3311A-Q	TRANSISTOR		D608	MA165	DIODE	
Q9, 10	2SK381BCDTA	TRANSISTOR		D609, 610	MA4091-M	DIODE	
Q11, 12	2SJ164PQRTA	TRANSISTOR		D611	MA4062-H	DIODE	
Q13, 14	2SD1450RSTA	TRANSISTOR		D612	MA4240H	DIODE	
Q301, 302	2SC3311A-Q	TRANSISTOR		D613	MA4330MTA	DIODE	
Q303	2SD592ANCQ	TRANSISTOR		D901	MA4051MTA	DIODE	
Q304	2SB621A-R	TRANSISTOR		D902-908	MA165	DIODE	
Q305-308	2SA1309A-R	TRANSISTOR		D909, 910	MA165	DIODE	Δ
Q401-404	2SC3311A-Q	TRANSISTOR		D911	MA4056HTA	DIODE	
Q601	2SA1309A-R	TRANSISTOR	Δ	D912	MA4091-M	DIODE	
Q602	2SC3311A-Q	TRANSISTOR	Δ	D913, 914	1SR35200TB	DIODE	
Q603	2SD2037EFTA	TRANSISTOR		D917-919	MA165	DIODE	
Q604	2SB1357EFTA	TRANSISTOR		D921-927	MA165	DIODE	
Q605	2SD2037EFTA	TRANSISTOR		D928	MA4120	DIODE	
Q606	2SB621A-R	TRANSISTOR		D929	MA165	DIODE	(EB)
Q607	2SC3311A-Q	TRANSISTOR		D971, 972	RVD1SS133TA	DIODE	
Q608	2SA1309A-R	TRANSISTOR				VARIABLE RESISTOR(S)	
Q901	DTC144EKT96	TRANSISTOR					
Q902	2SB1030QTA	TRANSISTOR	Δ	VR1, 2	EVNDXAA00B53	PLAYBACK GAIN ADJ.	
Q903	2SC3311A-Q	TRANSISTOR	(EB)	VR3, 4	EVNDXAA00B14	OVERALL GAIN ADJ.	
Q904	DTC114ESTP	TRANSISTOR		VR5	EWGEPAD24A54	REC. LEVEL CONTROL	
Q905	2SB1030QTA	TRANSISTOR	Δ	VR6	EVJ02SF06G15	BALANCE CONTROL	
Q906	DTC114ESTP	TRANSISTOR		VR301, 302	EVNDXAA00B14	OVERALL FREQUENCY ADJ.	
Q907	2SB1030QTA	TRANSISTOR	Δ	VR303	EVJ02VF04B53	BIAS CONTROL ADJ.	
Q908	DTC114ESTP	TRANSISTOR		VR901	EVNDXAA00B53	TAPE SPEED ADJ.	
Q909	2SB621A-R	TRANSISTOR				COIL (S)	
Q910	DTC114ESTP	TRANSISTOR					
Q911	2SD592ANCQ	TRANSISTOR					
Q912	2SC3311A-Q	TRANSISTOR	(EB)	L1, 2	SLQX303-1KT	COIL	
Q913	2SC3311A-Q	TRANSISTOR		L3, 4	SLQX272-1YT	COIL	
Q916, 917	DTA144ESTP	TRANSISTOR					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
L301	SL09B4-K	COIL		CN11, 12	RJU057W007	SOCKET (7P)	
L302, 303	SL09B1-K	COIL		CN601	RJS1A1101	SOCKET (1P)	
L401, 402	QLM9Z10K	COIL		CN603	RJS1A1101	SOCKET (1P)	
				CN606-611	RJS1A1101	SOCKET (1P)	
		TRANSFORMER (S)		CP1	RJP5G18ZA	CONNECTOR (5P)	
				CP6	RJT003K010M1	CONNECTOR (10P)	
T601	RTP1K4B007-V	POWER TRANSFORMER	(EB) △	CP8-10	RJT003K010M1	CONNECTOR (10P)	
T601	RTP1K4E008-V	POWER TRANSFORMER	(E, EG) △	CP11, 12	RJT057W007-1	CONNECTOR (7P)	
		OSCILLATOR (S)				GND PART (S)	
X901	EF0GC4004A4	CERAMIC FILTER (4MHz)		E1, 2	SNE1004-1	GND PLATE	
				E3	SUSD165	GND SPRING	
		DISPLAY TUBE		E4	RMC0089	GND SPRING	
FL551	RSL0054-F	DISPLAY TUBE				JACK (S)	
		SWITCH (ES)					
				JK1	SJF3069N	TERMINAL BOARD	
S701	EVQ21405R	STOP		JK2, 3	RJJ65MA01	JACK, MIC (L), (R)	
S702	EVQ21405R	F. F.		JK7	SJJD19	JACK, HEADPHONES	
S703	EVQ21405R	REW.		JK8	SJS9236	AC INLET	△
S704	EVQ21405R	PLAYBACK					
S706	EVQ21405R	REC				FLAT CABLE (S)	
S707	EVQ21405R	PAUSE					
S708	EVQ21405R	DOLBY NR C		W2	RWJ1806080KQ	FLAT CABLE (6P)	
S709	EVQ21405R	DOLBY NR B		W3	RWJ0210220Q	FLAT CABLE (10P)	
S710	EVQ21405R	MPX		W4	RWJ1806130KQ	FLAT CABLE (6P)	
S711	SSS166	TIMER		W7	RWJ1807270KQ	FLAT CABLE (7P)	
S712	EVQ21405R	AUTO REC MUTE		W13	RWJ1803100KK	FLAT CABLE (3P)	
S713	EVQ21405R	COUNTER RESET		W41	RWJ1804100KQ	FLAT CABLE (4P)	
S714	EVQ21405R	MEMORY STOP					
S715	EVQ21405R	PEAK HOLD RESET (AUTO)					
S716	EVQ21405R	PEAK HOLD RESET (MANUAL)					
S717	SSH1230	POWER	△				
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)					
CN2A	RJS1A1703	CONNECTOR (3P)					
CN2B	RJS1A1703	CONNECTOR (3P)					
CN3	SJSD1005	CONNECTOR (10P)					
CN4A	RJS1A1703	CONNECTOR (3P)					
CN4B	RJS1A1703	CONNECTOR (3P)					
CN6	RJU003K010M1	SOCKET (10P)					
CN7A	RJS1A1703	CONNECTOR (3P)					
CN7B	RJS1A1704	CONNECTOR (4P)					
CN8-10	RJU003K010M1	SOCKET (10P)					

RESISTORS & CAPACITORS

Notes : • Capacity value 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	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R324	ERDS2TJ563	1/4W 56K	R712	ERDS2TJ821	1/4W 820
			R326	ERDS2TJ221	1/4W 220	R713	ERDS2TJ102	1/4W 1K
			R327	ERDS2TJ821	1/4W 820	R714	ERDS2TJ122	1/4W 1.2K
R1, 2	ERDS2TJ225	1/4W 2.2M	R328	ERDS2TJ122	1/4W 1.2K	R715, 716	ERDS2TJ101	1/4W 100
R3, 4	ERDS2TJ104	1/4W 100K	R329, 330	ERDS1FVJ121T	1/2W 120 (E, EG) △	R901	ERDS2TJ105T	1/4W 1M
R5, 6	ERDS2TJ473	1/4W 47K	R329, 330	ERDS1FVJ331T	1/2W 330 (EB) △	R902	ERDS2TJ102	1/4W 1K
R7, 8	ERDS2TJ102	1/4W 1K	R331-334	ERDS1FVJ391T	1/2W 390 (EB) △	R903	ERDS2TJ331	1/4W 330
R9, 10	ERDS2TJ103	1/4W 10K	R401-404	ERDS2TJ684	1/4W 680K	R904, 905	ERDS2TJ223	1/4W 22K
R11-14	ERDS2TJ101	1/4W 100	R405, 406	ERDS2TJ242	1/4W 2.4K	R906	ERDS2TJ103	1/4W 10K
R15, 16	ERDS2TJ153	1/4W 15K	R407-410	ERDS2TJ562	1/4W 5.6K	R907	ERDS2TJ472	1/4W 4.7K △
R17, 18	ERDS2TJ564	1/4W 560K	R411, 412	ERDS2TJ682T	1/4W 6.8K	R908, 909	ERDS2TJ272T	1/4W 2.7K
R19, 20	ERDS2TJ103	1/4W 10K	R413, 414	ERDS2TJ243T	1/4W 24K	R910, 911	ERDS2TJ392T	1/4W 3.9K
R21, 22	ERDS2TJ223	1/4W 22K	R415, 416	ERDS2TJ561	1/4W 560	R912, 913	ERDS2TJ103	1/4W 10K
R23, 24	ERDS2TJ472	1/4W 4.7K	R417	ERDS2TJ151	1/4W 150	R914	ERDS2TJ473	1/4W 47K
R25, 26	ERDS2TJ103	1/4W 10K	R418	ERDS2TJ273	1/4W 27K	R915	ERDS2TJ272T	1/4W 2.7K
R27, 28	ERDS2TJ102	1/4W 1K	R551, 552	ERDS2TJ104	1/4W 100K	R916	ERDS2TJ223	1/4W 22K
R29, 30	ERDS2EJ820	1/4W 82	R553, 554	ERDS2TJ473	1/4W 47K	R917-920	ERDS2TJ472	1/4W 4.7K
R31, 32	ERDS2EJ121	1/4W 120	R555, 556	ERDS2TJ124T	1/4W 120K	R921	ERDS2TJ223	1/4W 22K △
R33, 34	ERDS2TJ392T	1/4W 3.9K	R557, 558	ERDS2TJ220T	1/4W 22	R922	ERDS2TJ821	1/4W 820 (E, EG) △
R35, 36	ERDS2TJ152	1/4W 1.5K	R559, 560	ERDS2TJ152	1/4W 1.5K	R923	ERDS2TJ223	1/4W 22K △
R37, 38	ERDS2TJ272T	1/4W 2.7K	R561, 562	ERDS2TJ684	1/4W 680K	R924	ERDS2TJ821	1/4W 820
R39, 40	ERDS2TJ223	1/4W 22K	R601, 602	ERQ16NWR15E	1/6W 0.15 (EB) △	R925, 926	ERG1SJ180E	1W 18
R41, 42	ERDS2TJ682T	1/4W 6.8K	R603	ERDS2TJ472	1/4W 4.7K △	R927, 928	ERDS2TJ472	1/4W 4.7K (EB)
R43, 44	ERDS2TJ183T	1/4W 18K	R604	ERDS2TJ472	1/4W 4.7K	R929	ERDS2TJ223	1/4W 22K △
R45, 46	ERDS2TJ182	1/4W 1.8K	R605	ERDS2TJ103	1/4W 10K	R930	ERDS2TJ821	1/4W 820
R47, 48	ERDS2TJ102	1/4W 1K	R606	ERDS2TJ472	1/4W 4.7K △	R931	ERDS2TJ223	1/4W 22K
R49, 50	ERDS2TJ223	1/4W 22K	R607, 608	ERDS1FVJ100T	1/2W 10 (E, EG) △	R932	ERDS2TJ821	1/4W 820
R51, 52	ERDS2TJ332	1/4W 3.3K	R607, 608	ERD2FCVG100T	1/4W 10 (EB) △	R933, 934	ERDS1FJ120	1/2W 12 △
R53, 54	ERDS2TJ561	1/4W 560	R609, 610	ERDS2TJ102	1/4W 1K	R935	ERDS2TJ222	1/4W 2.2K
R55, 56	ERDS2TJ223	1/4W 22K	R611, 612	ERDS2TJ101	1/4W 100	R936	ERDS2TJ103	1/4W 10K
R57, 58	ERDS2TJ472	1/4W 4.7K	R613, 614	ERDS1FJ270	1/2W 27 (E, EG) △	R937	ERDS2TJ222	1/4W 2.2K (EB)
R301	ERDS2TJ1R0	1/4W 1.0	R613, 614	ERD2FCVG270T	1/4W 27 (EB) △	R938	ERDS2TJ332	1/4W 3.3K (EB)
R302, 303	ERDS2TJ183T	1/4W 18K	R615, 616	ERDS2TJ222	1/4W 2.2K	R939	ERDS2TJ103	1/4W 10K
R304, 305	ERDS2TJ100	1/4W 10	R617, 618	ERDS1FVJ100T	1/2W 10 (E, EG) △	R941	ERDS2TJ152	1/4W 1.5K
R306	ERDS2TJ222	1/4W 2.2K	R617, 618	ERD2FCVG100T	1/4W 10 (EB) △	R942, 943	ERDS2TJ103	1/4W 10K
R307	ERDS2TJ123	1/4W 12K	R619, 620	ERDS2TJ391	1/4W 390 △	R944	ERDS2TJ471	1/4W 470
R308	ERDS2TJ102	1/4W 1K	R621, 622	ERDS2TJ101	1/4W 100	R946, 947	ERDS2TJ103	1/4W 10K
R309	ERDS2TJ561	1/4W 560	R627	ERDS1FVJ180T	1/2W 18 △	R953	ERDS2TJ152	1/4W 1.5K (EB)
R310	ERDS2TJ332	1/4W 3.3K	R701	ERDS2TJ821	1/4W 820	R953	ERDS2TJ821	1/4W 820 (E, EG)
R311, 312	ERDS2TJ100	1/4W 10	R702	ERDS2TJ102	1/4W 1K	R954	ERDS2TJ472	1/4W 4.7K
R313, 314	ERDS2TJ154	1/4W 150K	R703	ERDS2TJ122	1/4W 1.2K	R955, 956	ERDS2TJ223	1/4W 22K
R315, 316	ERDS2TJ153	1/4W 15K	R704	ERDS2TJ152	1/4W 1.5K	R957	ERDS2TJ273	1/4W 27K
R317	ERDS2TJ822	1/4W 8.2K	R705	ERDS2TJ182	1/4W 1.8K	R958	ERDS2TJ822	1/4W 8.2K
R318	ERDS2TJ272T	1/4W 2.7K	R706	ERDS2TJ222	1/4W 2.2K	R959	ERDS2TJ103	1/4W 10K
R319	ERDS2TJ102	1/4W 1K	R707	ERDS2TJ332	1/4W 3.3K	R961	ERDS2TJ122	1/4W 1.2K
R320	ERDS2TJ332	1/4W 3.3K	R708	ERDS2TJ472	1/4W 4.7K	R962	ERDS2TJ472	1/4W 4.7K
R321	ERDS2TJ103	1/4W 10K	R709	ERDS2TJ682T	1/4W 6.8K	R963	ERDS2TJ392T	1/4W 3.9K
R322	ERDS2TJ563	1/4W 56K	R710	ERDS2TJ123	1/4W 12K	R964	ERDS2TJ223	1/4W 22K
R323	ERDS2TJ822	1/4W 8.2K	R711	ERDS2TJ223	1/4W 22K	R965, 966	ERDS2TJ101	1/4W 100

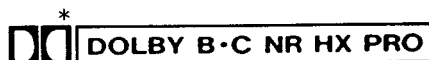
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks			
R967	ERDS2TJ104	1/4W 100K	C325, 326	ECKT1H122KB	50V 1200P			
R968	ERDS2TJ223	1/4W 22K Δ	C327	ECEA1EK100	25V 10U			
R971	ERDS2TJ472	1/4W 4.7K	C328	ECBT1H180J5	50V 18P			
R971A	ERDS2TJ221	1/4W 220	C401, 402	ECKT1H122KB	50V 1200P			
R972A	ERDS2TJ183T	1/4W 18K	C403, 404	ECKD1H152KB	50V 1500P			
R973	ERDS2TJ1R0	1/4W 1.0 Δ	C405-408	ECQB1H222JZ3	50V 2200P			
R974	ERDS2TJ471	1/4W 470 Δ	C409, 410	ECEA1HJR56B	50V 0.56U			
R975	ERDS2TJ101	1/4W 100	C411, 412	ECA1HPXSR33B	50V 0.33U			
R977	ERDS2TJ472	1/4W 4.7K Δ	C413, 414	ECKT1H122KB	50V 1200P			
R978	ERDS2TJ331	1/4W 330 (EB)	C415, 416	ECA1HPXS4R7B	50V 4.7U			
R979	ERDS2TJ392T	1/4W 3.9K	C551, 552	ECQV1H104JZ3	50V 0.1U			
R980	ERDS2TJ472	1/4W 4.7K	C553, 554	ECEA0JU470B	6.3V 47U			
R981	ERDS2TJ821	1/4W 820 (EB)	C601	ECKR2H682PE	500V 6800P Δ			
R982	ERDS2TJ182	1/4W 1.8K (EB)	C602-604	ECEA1EU222B	25V 2200U Δ			
		CAPACITORS	C605, 606	ECKR1H103ZF5	50V 0.01U			
			C607, 608	ECEA1AU221	10V 220U			
			C609	ECKR2H682PE	500V 6800P			
C1, 2	ECBT1H102KB5	50V 1000P	C610	ECEA1HJ470	50V 47U			
C3, 4	ECBT1H561KB5	50V 560P	C611-614	ECKR1H103ZF5	50V 0.01U			
C5, 6	ECA1HPXS4R7B	50V 4.7U	C615, 616	ECA1AAX102B	V			
C7, 8	ECBA1H681KB5	50V 680P	C701, 702	ECKR1H103ZF5	50V 0.01U			
C9, 10	ECKR2H121KB5	500V 120P	C703	ECBT1C103MS5	16V 0.01U			
C11, 12	ECBT1H102KB5	50V 1000P	C901	ECKR1H103ZF5	50V 0.01U			
C13, 14	ECA1HPXS4R7B	50V 4.7U	C902	ECEA1HK010B	50V 1U (EB)			
C15, 16	ECA0JPXS101B	6V 100U	C903	ECKR1H103ZF5	50V 0.01U			
C17, 18	ECQB1H562JZ	50V 5600P	C904	ECEA1CN100SB	16V 10U			
C19-22	ECA1HPXS4R7B	50V 4.7U	C905	ECEA0JU222B	6.3V 2200U			
C23, 24	ECKR1H103ZF5	50V 0.01U	C906	ECKR1H103ZF5	50V 0.01U			
C25, 26	ECBT1H101KB5	50V 100P	C907	ECEA1HK010B	50V 1U			
C27, 28	ECA1HPXSR47B	50V 0.47U	C908	ECEA1EK4R7	25V 4.7U			
C29, 30	ECQB1H822JZ	50V 8200P	C909	ECEA1VK100B	35V 10U			
C31, 32	ECQV1H273JZ3	50V 0.027U	C910	ECEA1HK2R2B	50V 2.2U			
C33, 34	ECQB1H822JZ	50V 8200P	C911	ECKR1H103ZF5	50V 0.01U			
C35, 36	ECQV1H563JZ3	50V 0.056U	C912	ECEA0JU101B	6.3V 100U			
C37, 38	ECA1HPXS4R7B	50V 4.7U	C913	ECKR1H103ZF5	50V 0.01U			
C39, 40	ECA1HPXS010B	50V 1U	C914	ECEA1HK010B	50V 1U			
C41, 42	ECA1CPXS100B	16V 10U	C915	ECBT1C103MS5	16V 0.01U			
C301	ECQP1153JZ	100V 0.015U	C916	ECKR1H103ZF5	50V 0.01U			
C302	ECEA1EK4R7	25V 4.7U						
C303	ECKR1H392KB5	50V 3900P						
C304, 305	ECKW1H222KB5	50V 2200P						
C306	ECKD1H682KB	50V 6800P						
C307-309	ECKR1H103ZF5	50V 0.01U						
C310	ECEA1AU101	10V 100U						
C311	ECKR1H472KB5	50V 4700P						
C312	ECBT1H180J5	50V 18P						
C313, 314	ECKT1H223ZF	50V 0.022U						
C315, 316	ECBT1H821KB5	50V 820P						
C317, 318	ECBT1H121KB5	50V 120P						
C319, 320	ECQV1H473JZ3	50V 0.047U						
C321, 322	ECQB1H223JZ3	50V 0.022U						
C323, 324	ECQB1H103JZ	50V 0.01U						

Service Manual

Supplement

Dolby NR-Equipped
Stereo Cassette Deck

Cassette Deck
RS-BX404



* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang and Olufsen. "DOLBY", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(E)	Europe.	(K)
(EB)	Great Britain.	
(EG)	Germany and Italy.	
(EP)	Poland.	

Please file and use this supplement manual together with the service manual for Model No. RS-BX404, Order No. AD9104075C2 (E, EB, EG) and AD9206202A2 (EP).

Note: This supplement is intended to provide additional information or corrections to the existing service manual for Model No. RS-BX404. Be sure to update your service manual for future reference.

CHANGES

CHANGE IN REPLACEMENT PARTS LIST (on pages 29, 30, 33, 34, 36.)

Note: • Important safety notice:

Components identified by $\triangle$ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Ref. No.	Change of Part No.		Part Name & Description	Remarks
	ORIGINAL	➡ NEW		
PACKING MATERIAL				
P2	RPN0345	RPN0345-1	CUSHION	
P4	SPP756	XZB52X60A01Z	PROTECTION COVER	
ACCESSORIES				
A2	SFDAC05E03	RJA0019-1K	AC POWER SUPPLY CORD	(E, EG, EP) △
A3	SJP2249-3	SJP2276	STEREO CONNECTION CABLE	
MECHANISM PARTS LIST				
110	RXR0009	RXR0001	REEL TABLE	
TRANSISTOR(S)				
Q901	DTC144EKT96	DTC144ESTP	TRANSISTOR	
Q918	DTC144EKT96	DTC144ESTP	TRANSISTOR	
COIL(S)				
L302, 303	SL09B1-K	SL09B1-Z	COIL	

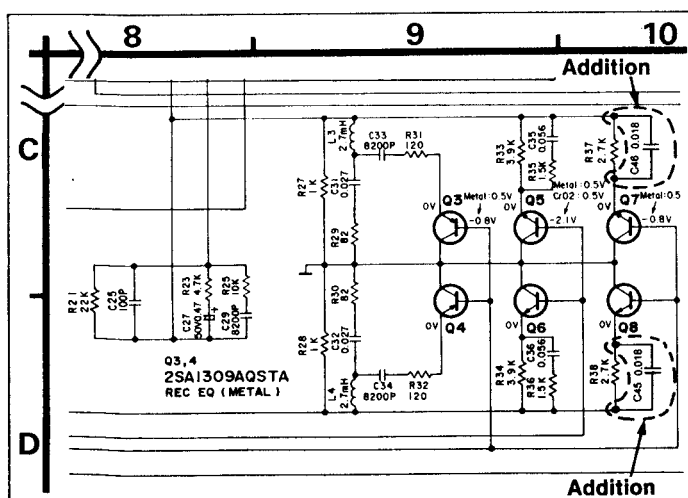
Technics

Ref. No.	Change of Part No.		Part Name & Description	Remarks
	ORIGINAL	➡ NEW		
SWITCH(ES)				
S971	RSH1A89ZB-U	RSH1A89ZC-U	MODE	
S972	RSH1A90YB-U	RSH1A90YC-U	HALF	
S973	RSH1A90YB-U	RSH1A90YC-U	ATS (CrO ₂)	
S975	RSH1A90YB-U	RSH1A90YC-U	REC INHIBIT	
S976	RSH1A90YB-U	RSH1A90YC-U	ATS (Metal)	
* CONNECTOR(S) AND SOCKET(S)				
CN2A, 2B	RJS1A1703	RJS1A6603	CONNECTOR (3P)	
CN4A, 4B	RJS1A1703	RJS1A6603	CONNECTOR (3P)	
CN7A	RJS1A1703	RJS1A6603	CONNECTOR (3P)	
CN7B	RJS1A1704	RJS1A6604	CONNECTOR (4P)	
CN601	RJS1A1101	RJS1A1101T1	SOCKET (1P)	
CN603	RJS1A1101	RJS1A1101T1	SOCKET (1P)	
CN606-611	RJS1A1101	RJS1A1101T1	SOCKET (1P)	
CP6	RJT003K010M1	RJT003K010-1	CONNECTOR (10P)	
CP8-10	RJT003K010M1	RJT003K010-1	CONNECTOR (10P)	
FLAT CABLE(S)				
W3	RWJ0210220QQ	RWJ5710220QQ	FLAT CABLE (10P)	
CAPACITORS				
C5, 6	ECA1HPXS4R7B	ECEA1EKA4R7B	E. CAPACITOR, 25V, 4.7μF	
C13, 14	ECA1HPXS4R7B	ECEA1EKA4R7B	E. CAPACITOR, 25V, 4.7μF	
C15, 16	ECA0JPXS101B	ECEA1AU101	E. CAPACITOR, 10V, 100μF	
C19 – 22	ECA1HPXS4R7B	ECEA1EKA4R7B	E. CAPACITOR, 25V, 4.7μF	
C37, 38	ECA1HPXS4R7B	ECEA1EKA4R7B	E. CAPACITOR, 25V, 4.7μF	
C45, 46	————	ECQB1H183JF3	P. CAPACITOR, 50V, 0.018μF	Addition
C327	ECEA1EK100	ECEA1VKA100B	E. CAPACITOR, 35V, 10μF	
C415, 416	ECA1HPXS4R7B	ECEA1EKA4R7B	E. CAPACITOR, 25V, 4.7μF	
C553, 554	ECEA0JU470B	ECEA1CKA470B	E. CAPACITOR, 16V, 47μF	
C912	ECEA0JU101B	ECEA1AU101	E. CAPACITOR, 10V, 100μF	

■ SCHEMATIC DIAGRAM

(on page 18.)

A MAIN CIRCUIT



■ PRINTED CIRCUIT BOARDS

(on pages 23, 24.)

A MAIN P.C.B.

