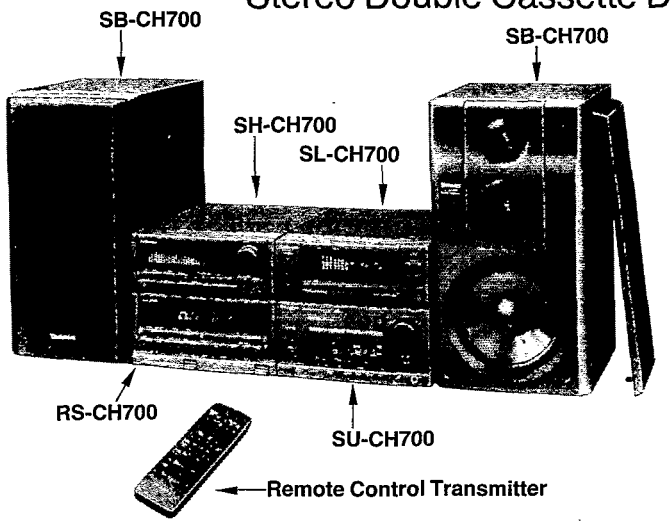
ORDER NO. AD9202024C8

Service Manual

Dolby NR-Equipped
Stereo Double Cassette Deck

Cassette Deck

RS-CH700



DOLBY B·C NR HX PRO*

Colour

(K) ..... Black Type

Area

Suffix for Model No.	Area	Colour
(E)	Continental Europe, Great Britain, Germany, Italy, Asia, Latin America, Middle Near East, Africa and Oceania	(K)

RS-TR165 MECHANISM SERIES (AR300)

System: SC-CH700

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

SPECIFICATIONS

Deck system: Compact cassette stereo
Tape speed: 4.8 cm/sec.
Bias frequency: 80 kHz
Heads:
(DECK 2) REC/PLAY; Permalloy head
Erasing; Double-gap ferrite head
(DECK 1) PLAY; Permalloy head
Motors:
(DECK 2); DC servo motor
(DECK 1); DC servo motor
Wow and flutter: 0.1% (WRMS)
Fast Forward and Rewind Time: Approx. 110 seconds with C-60 cassette tape
Frequency response (CCRT ON):
Normal; 20~17000 Hz
30~15000 Hz (DIN)
CrO_2; 20~18000 Hz
30~17000 Hz (DIN)
METAL; 20~20000 Hz
30~19000 Hz (DIN)

S/N (CrO_2):
DOLBY B NR on; 66 dB (CCIR)
DOLBY C NR on; 74 dB (CCIR)
DOLBY off; 56 dB (A WTD, signal level: MOL)
GENERAL
Dimensions (W×H×D): 215×110×279 mm
Weight: 2.8 kg

Notes:
1. Specifications are subject to change without notice.
2. Weight and dimensions shown are approximate.

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

System	Tuner/CD player	Sound Processor	Power Amplifier	Cassette Deck	Speakers
SC-CH700	SL-CH700	SH-CH700	SU-CH700	RS-CH700	*SB-CH700

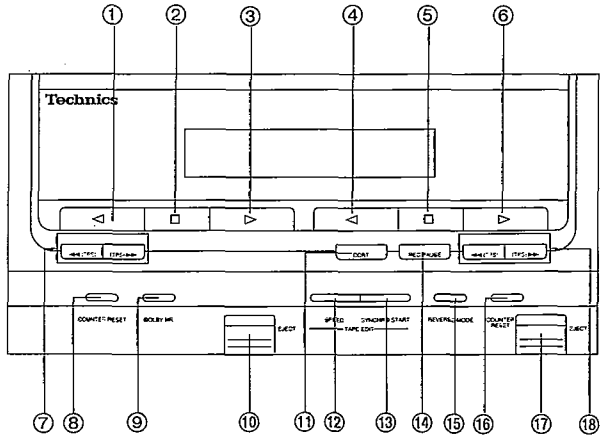
Continental Europe, Great Britain, Germany and Itary areas ..... Made in PAES

Technics

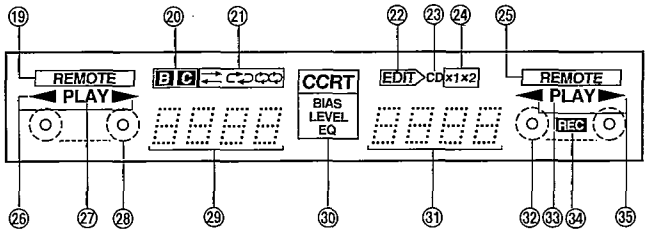
■ CONTENTS

NOTES:
Refer to the service manual for Model No. SU-CH700, Order No. AD9202022C8 for information on ACCESSORIES, CONNECTIONS and PACKAGING.

■ LOCATION OF CONTROL



●Display

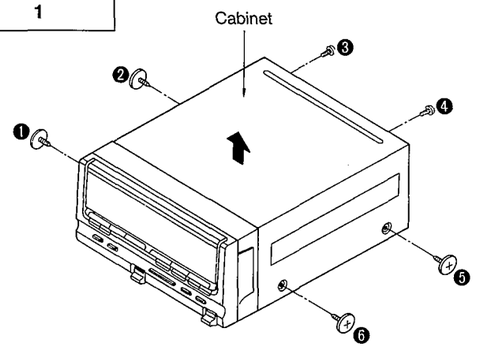


① Deck 1 reverse side playback button (◁)
② Deck 1 stop button (□)
③ Deck 1 forward side playback button (▷)
④ Deck 2 reverse side playback button (◁)
⑤ Deck 2 stop button (□)
⑥ Deck 2 forward side playback button (▷)
⑦ Deck 1 Fast-forward/rewind/tape program sensor buttons [◀◀ (TPS), (TPS) ▶▶]
⑧ Deck 1 counter reset button (COUNTER RESET)
⑨ Dolby noise reduction button (DOLBY NR)
⑩ Deck 1 cassette eject button (EJECT)
⑪ CCRT (computer control record tuning) button (CCRT)
⑫ Edit speed select button (SPEED)
⑬ Synchro start button (SYNCHRO START)
⑭ Record/record standby button (REC PAUSE)
⑮ Reverse mode select button (REVERSE MODE)
⑯ Deck 2 counter reset button (COUNTER RESET)
⑰ Deck 2 cassette eject button (EJECT)
⑱ Deck 2 Fast-forward/rewind/tape program sensor buttons [◀◀ (TPS), (TPS) ▶▶]
⑲ Deck 1 remote indicator (REMOTE)
⑳ Dolby noise reduction indicators (B, C)
㉑ Reverse mode indicators (⇄ , ⊂⊃ , ⊂○⊃)
㉒ Edit indicator (EDIT)
㉓ CD edit indicator (CD)
㉔ Edit speed indicators (×1, ×2)
㉕ Deck 2 remote indicator (REMOTE)
㉖ Deck 1 tape travel direction indicators (◀, ▶)
㉗ Deck 1 playback indicator (PLAY)
㉘ Deck 1 tape indicator
㉙ Deck 1 tape counter
㉚ CCRT indicator
㉛ Deck 2 tape counter
㉜ Deck 2 tape indicator
㉝ Deck 2 playback indicator (PLAY)
㉞ Recording indicator (REC)
㉟ Deck 2 tape travel direction indicators (◀, ▶)

■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1 — Removal of the Cabinet

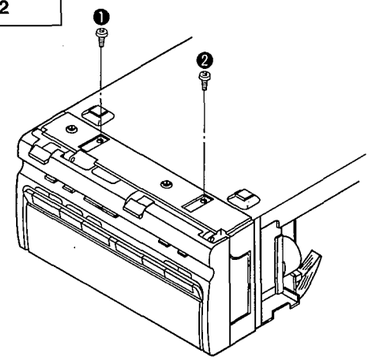
Procedure 1



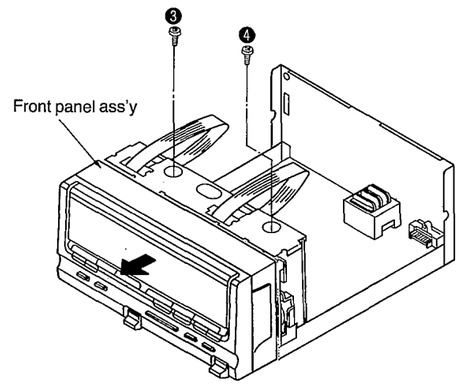
●Remove the 6 screws (❶~❻).

Ref. No. 2 — Removal of the Front Panel Ass'y

Procedure 1→2



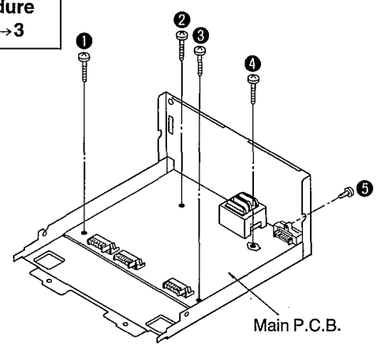
1. Remove the 2 screws (❶, ❷).



2. Remove the 2 screws (❸, ❹).
3. Remove the front panel ass'y in the direction of the arrow.

Ref. No. 3 — Removal of the Main P.C.B.

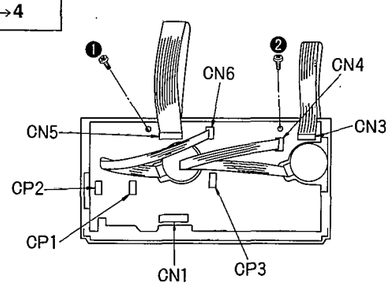
Procedure 1→2→3



●Remove the 5 screws (❶~❺)

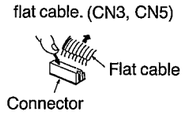
Ref. No. 4 — Removal of the Mechanism Control P.C.B.

Procedure 1→2→4

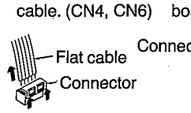


1. Remove the 3 connectors (CP1, CP2, CP3).
2. Remove the 4 flat cables (CN3, CN4, CN5, CN6).
3. Remove the F.P.C. board (CN1).
4. Remove the 2 screws (❶, ❷).

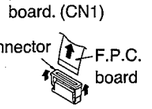
●Push the top of the connector and then pull out the flat cable. (CN3, CN5)

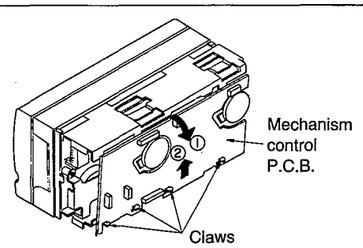


1. Lift up the connector.
2. Pull out the flat cable. (CN4, CN6)



●Lift the top of the connector and then pull out the F.P.C. board. (CN1)

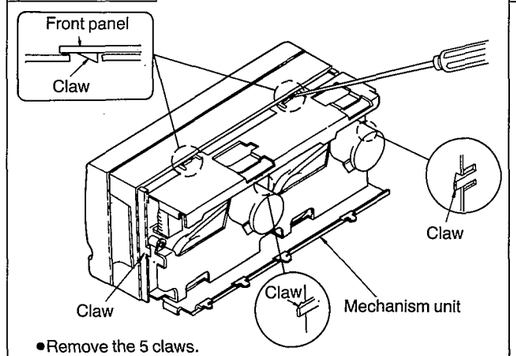




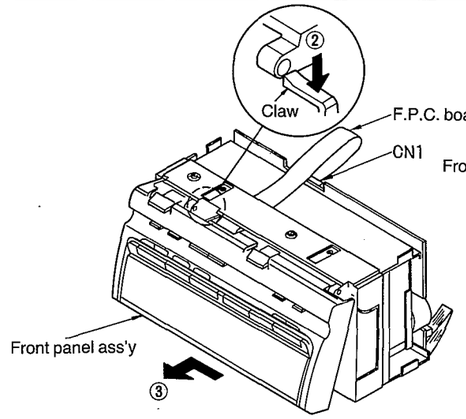
5. Move the Mechanism P.C.B. in the direction of the arrows ① and ②, and then remove the claws.

Ref. No. 5 — Removal of the Mechanism Unit

Procedure 1→2→4→5



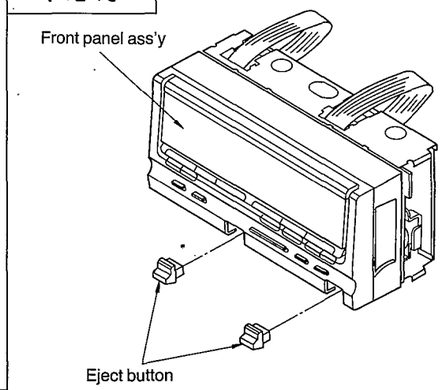
●Remove the 5 claws.



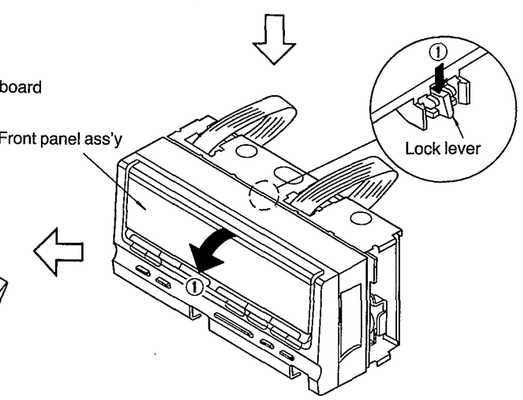
3. Remove the F.P.C. board (CN1).
4. Push the claw in the direction of the arrow ②, and then remove the Front panel ass'y in the direction of the arrow ③.

Ref. No. 6 — Removal of the Front Panel Ass'y

Procedure 1→2→6



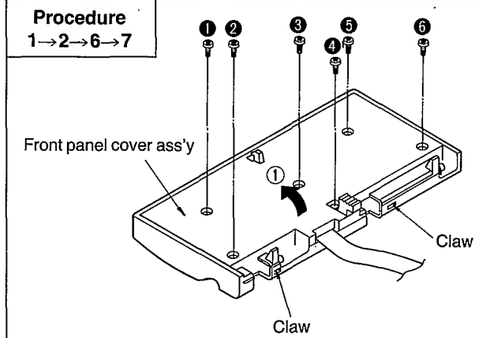
1. Pull out the 2 eject buttons.



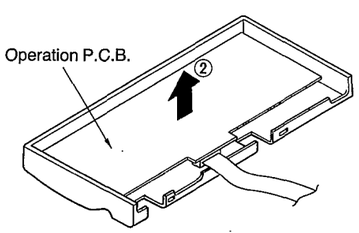
2. Push the Lock lever in the direction of the arrow ①, and then open the Front panel ass'y.

Ref. No. 7 — Removal of the Operation P.C.B.

Procedure 1→2→6→7

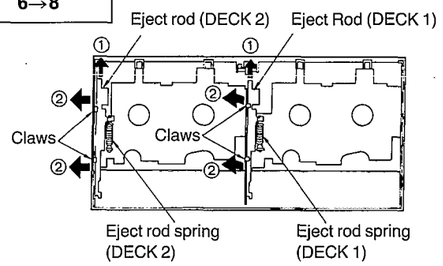


1. Remove the 6 screws (❶~❻).
2. Remove the 2 claws.
3. Remove the Front panel cover ass'y in the direction of the arrow ①.



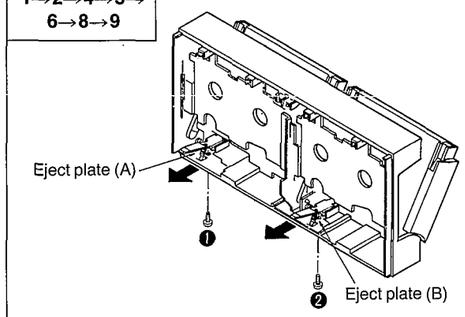
4. Remove the Operation P.C.B. in the direction of the arrow ②.

Ref. No. 8	Removal of the Eject Rod (DECK 1 and DECK 2)
Procedure 1→2→4→5→ 6→8	



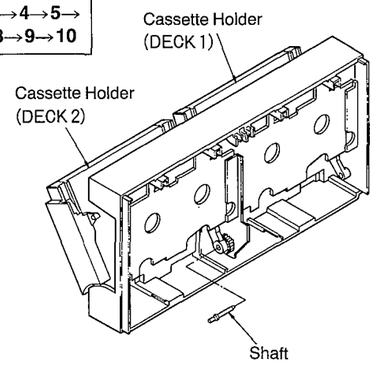
1. Push the Eject rod in the direction of the arrow ①.
2. Remove the spring.
3. Push the 2 claws in the direction of the arrow ②, and then remove the Eject rod.

Ref. No. 9	Removal of the Eject plate (A) and Eject plate (B)
Procedure 1→2→4→5→ 6→8→9	

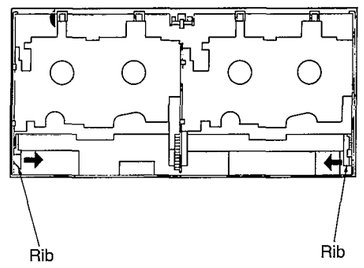


1. Remove the 2 screws (❶, ❷).
2. Remove the Eject plate (A) or Eject plate (B)

Ref. No. 10	Removal of the Cassette Holder (DECK 1 and DECK 2)
Procedure 1→2→4→5→ 6→8→9→10	

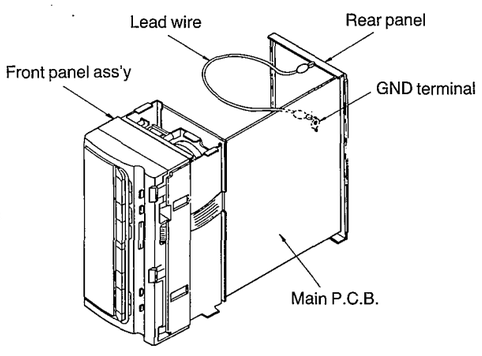


1. Pull out the shaft.



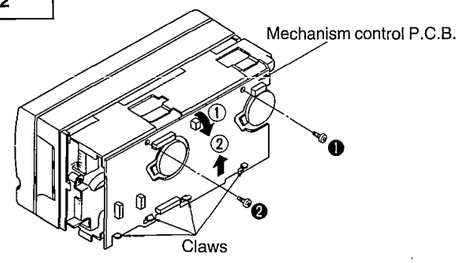
2. Push the Rib in the direction of the arrow.

Ref. No. 11	Check of the Main P.C.B.
Procedure 1→2→3→11	

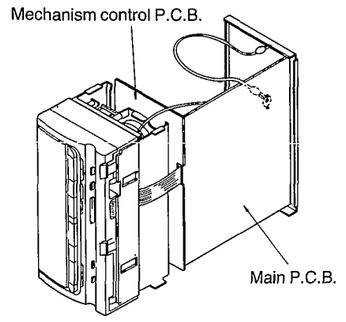


1. Reinstall the front panel ass'y to the Main P.C.B.
2. Reinstall the Rear Panel to the Main P.C.B.
3. Connect the wire between Main P.C.B. (Ground) and Rear Panel.
4. When checking the soldered surface of the Main P.C.B., do as shown in the Figure.

Ref. No. 12	Check of the Mechanism Control P.C.B.
Procedure 1→2→3→ 11→12	

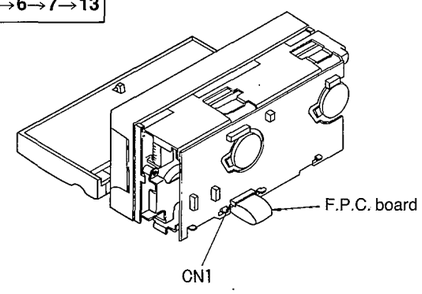


1. Remove the 2 screws (❶, ❷).
2. Move the Mechanism control P.C.B. in the direction of the arrows ① and ②, and then remove the claws.



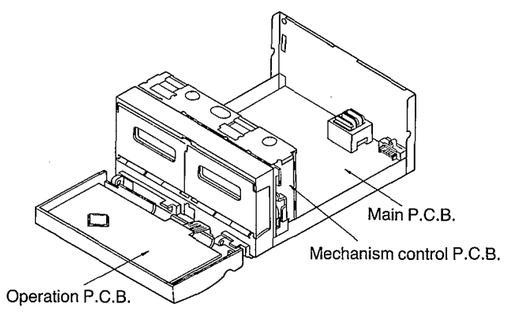
3. Reinstall the Mechanism control P.C.B. to the Main P.C.B.
4. When checking the soldered surface of the Mechanism control P.C.B., do as shown in the Figure above.

Ref. No. 13	Check of the Operation P.C.B.
Procedure 1→2→6→7→13	



1. Connect the F.P.C. board (CN1).

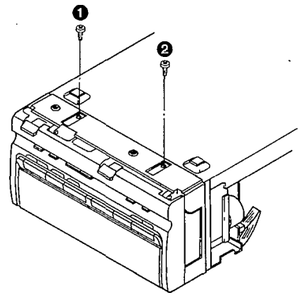
Note:
Make sure not to damage the F.P.C. board.



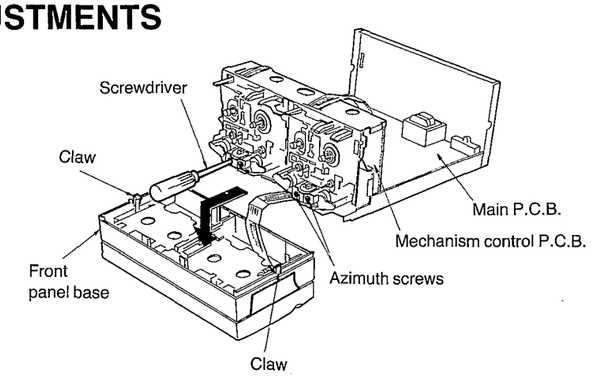
2. Reinstall the Mechanism control P.C.B. to the Main P.C.B.
3. When checking the soldered surface of the Operation P.C.B., do as shown in the Figure above.

■ MEASUREMENTS AND ADJUSTMENTS

•How to Adjust Head Azimuth



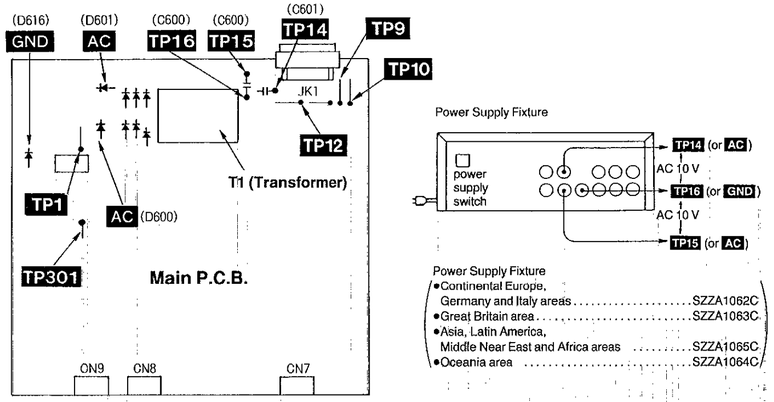
1. Remove the cabinet (see Ref. No. 1 of the disassembly instructions).
2. Remove the 2 screws (❶, ❷).



3. Remove the front panel base in the direction of the arrow and then remove the claws.
4. Adjust the azimuth screws as shown in the figure.

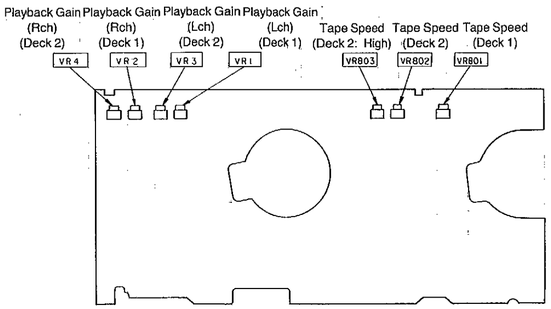
This tape deck (RS-CH700) is powered by the amplifier (SU-CH700).
To adjust or check operations on the tape deck as a separate unit, follow the instructions below.

- **Apply a power supply voltage of AC 10 V connect to TP14 (or AC D601), TP15 (or AC D600) and TP16 (or GND).**
- **How to CONNECT**



Power Supply Fixture
- •Continental Europe, Germany and Italy areas SZZA1062C
- •Great Britain area SZZA1063C
- •Asia, Latin America, Middle Near East and Africa areas SZZA1065C
- •Oceania area SZZA1064C

- **Adjustment Points**



Measurement Condition
- Rec. level control; Maximum
- Timer switch; Off
- Reverse-mode selector switch; ⟶
- Edit-recording tape-speed selector; X1

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

- 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)

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

- 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

HEAD AZIMUTH ADJUSTMENT (DECK 1/2)

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

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

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

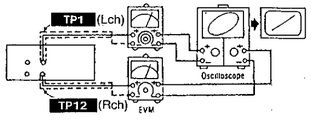


Fig. 1

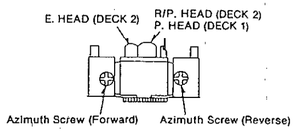


Fig. 2

TAPE SPEED ADJUSTMENT (DECK 1/2)

Normal speed

1. Shift the edit-recording tape-speed selector to "**NORMAL**".
2. Playback the middle portion of the test tape (QZZCWAT).
3. Adjust Deck 1=**VR801** and Deck 2=**VR802** so that the output is within the standard value.

Standard value: 3000±15 Hz (NORMAL speed)

High speed [Set the unit to forward (FWD) mode.]

4. Push the edit speed button (X2). This will set the high speed mode.
5. Playback the middle portion on the test tape (QZZCWAT).
6. At that time, check if the output from DECK 1 is within the standard value.

Standard value: 6000±630 Hz (HIGH speed)

7. Adjust **VR803** so that the output frequency of DECK 2 is within **±30 Hz** of the value of the output frequency of DECK 1.

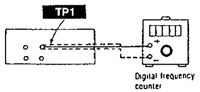


Fig. 3

PLAYBACK GAIN ADJUSTMENT (DECK 1/2)

1. Playback the gain adjusted portion (315Hz, 0dB) of the test tape (QZZCFM).
2. Adjust Deck 2=**VR3** (L-CH) [**VR4** (R-CH)] and Deck 1=**VR1** (L-CH) [**VR2** (R-CH)] so that the output is within the standard value.

Standard value: 400 mV±0.5 dB

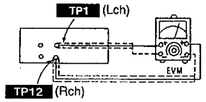


Fig. 4

PLAYBACK FREQUENCY RESPONSE (DECK 1/2)

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

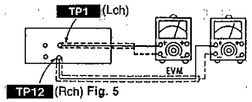


Fig. 5

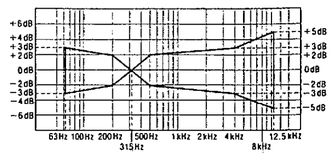


Fig. 6

ERASE CURRENT CONFIRMATION (DECK 2)

1. Insert the Metal blank test tape (QZZCRZ) and set the unit to the Record Pause mode.
2. Check if the output at this time between the erase current confirmation point **TP301** and **GND** (chassis) (the output on both edges of R327) is within the standard value.

Standard value: 220 mA±15 mA (Metal)

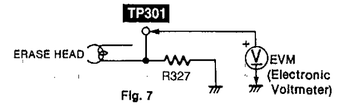


Fig. 7

OVERALL FREQUENCY RESPONSE (DECK 2)

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, −36 dB and 10 kHz, −36 dB) through an attenuator.
3. Record the frequency sweep.
4. Playback the recorded signal and assure that it is within the range shown in **Fig. 8** in comparison to the reference frequency (1 kHz).
5. 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).
6. Assure that the level is within the range shown in **Fig. 9**.

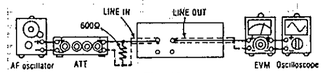


Fig. 10

Normal Overall frequency response chart (NR OUT)

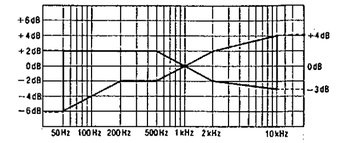


Fig. 8

CrO_2 Metal Overall frequency response chart (NR OUT)

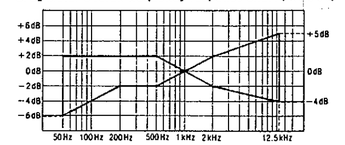


Fig. 9

OVERALL GAIN ADJUSTMENT (DECK 2)

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, −19 dB). Attenuate the output so that its level becomes 0.4 V.
3. Record this input signal.
4. Playback the signal recorded in step 3 above, and assure that the output is within the standard value.

Standard value: 0.4V±0.5dB

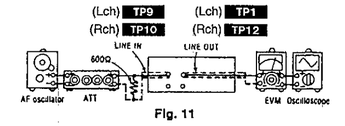
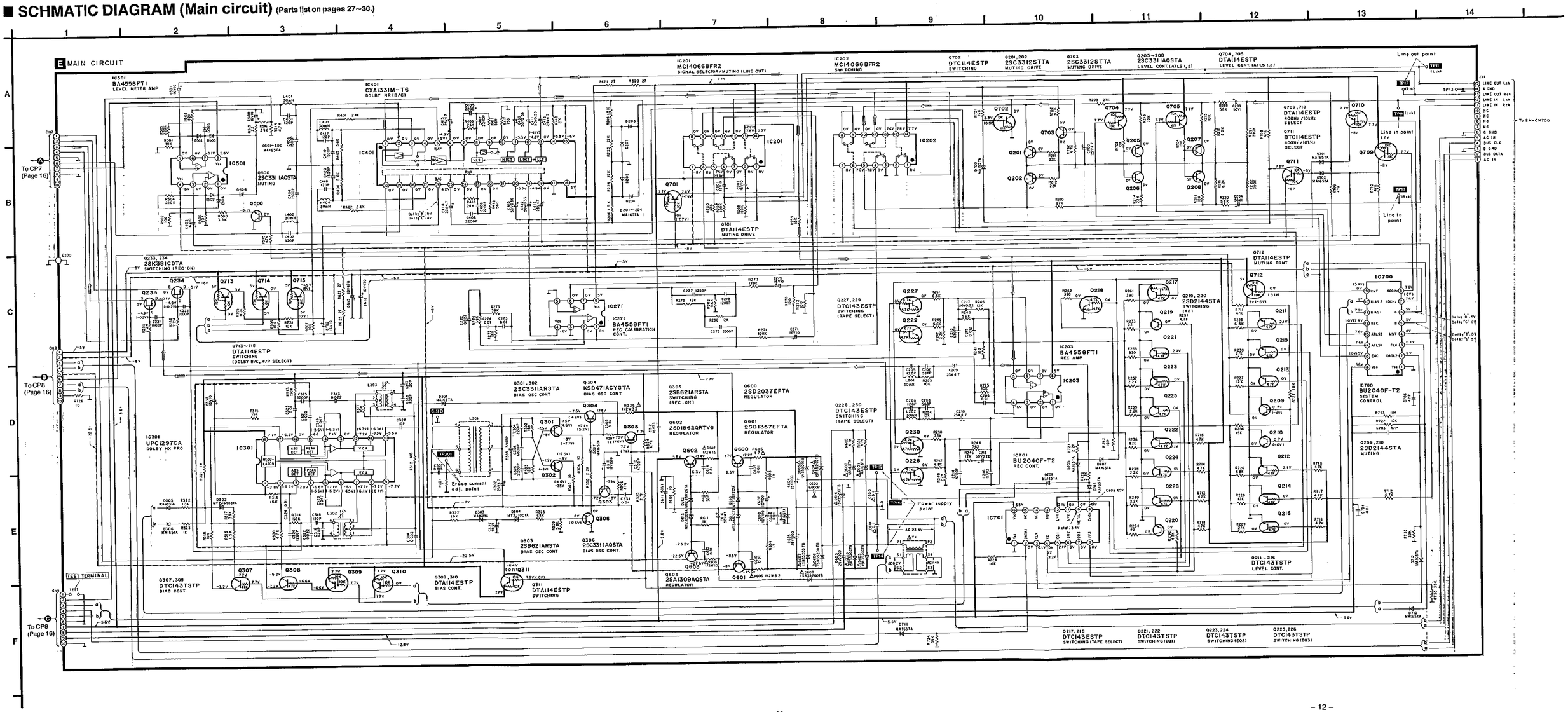


Fig. 11

RS-CH700 RS-CH700

■ SCHMATIC DIAGRAM (Main circuit) (Parts list on pages 27~30.)



RS-CH700 RS-CH700

■ SCHEMATIC DIAGRAM (Mechanism/Operation circuit) (Parts list on pages 27~30.)

Notes:

- S910 : STOP Switch (DECK 1).
- S911 : FF Switch (DECK 1).
- S912 : REW Switch (DECK 1).
- S913 : FWD. PLAY Switch (DECK 1).
- S914 : REV. PLAY Switch (DECK 1).
- S918 : Dolby NR Switch.
- S919 : Counter Reset Switch (DECK 1).
- S920 : STOP Switch (DECK 2).
- S921 : FF Switch (DECK 2).
- S922 : REW Switch (DECK 2).
- S923 : FWD. PLAY Switch (DECK 2).
- S924 : REV. PLAY Switch (DECK 2).
- S925 : REC Pause Switch.
- S927 : Synchro Start Switch.
- S928 : Speed Switch (×1, ×2).
- S929 : CCRT Switch.
- S930 : Counter Reset Switch (DECK 2).
- S931 : Reverse Mode Select Switch.
- S971 : Mode Detect Switch (DECK 1).
- S972 : Half Detect Switch (DECK 1).
- S973 : CrO2/METAL Tape Detect Switch (DECK 1).
- S971A : Mode Detect Switch (DECK 2).
- S972A : Half Detect Switch (DECK 2).
- S973A : Reverse Side Record Prevention Detect Switch (DECK 2).
- S974A : Forward Side Record Prevention Detect Switch (DECK 2).
- S975A : CrO_2 Tape Detect Switch (DECK 2).
- S976A : METAL Tape Detect Switch (DECK 2).
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

——— : Positive Voltage Line
– – – : Negative Voltage Line
: Playback Signal Line
⇨ : Recording Signal Line

No mark...Playback ( )...Recording

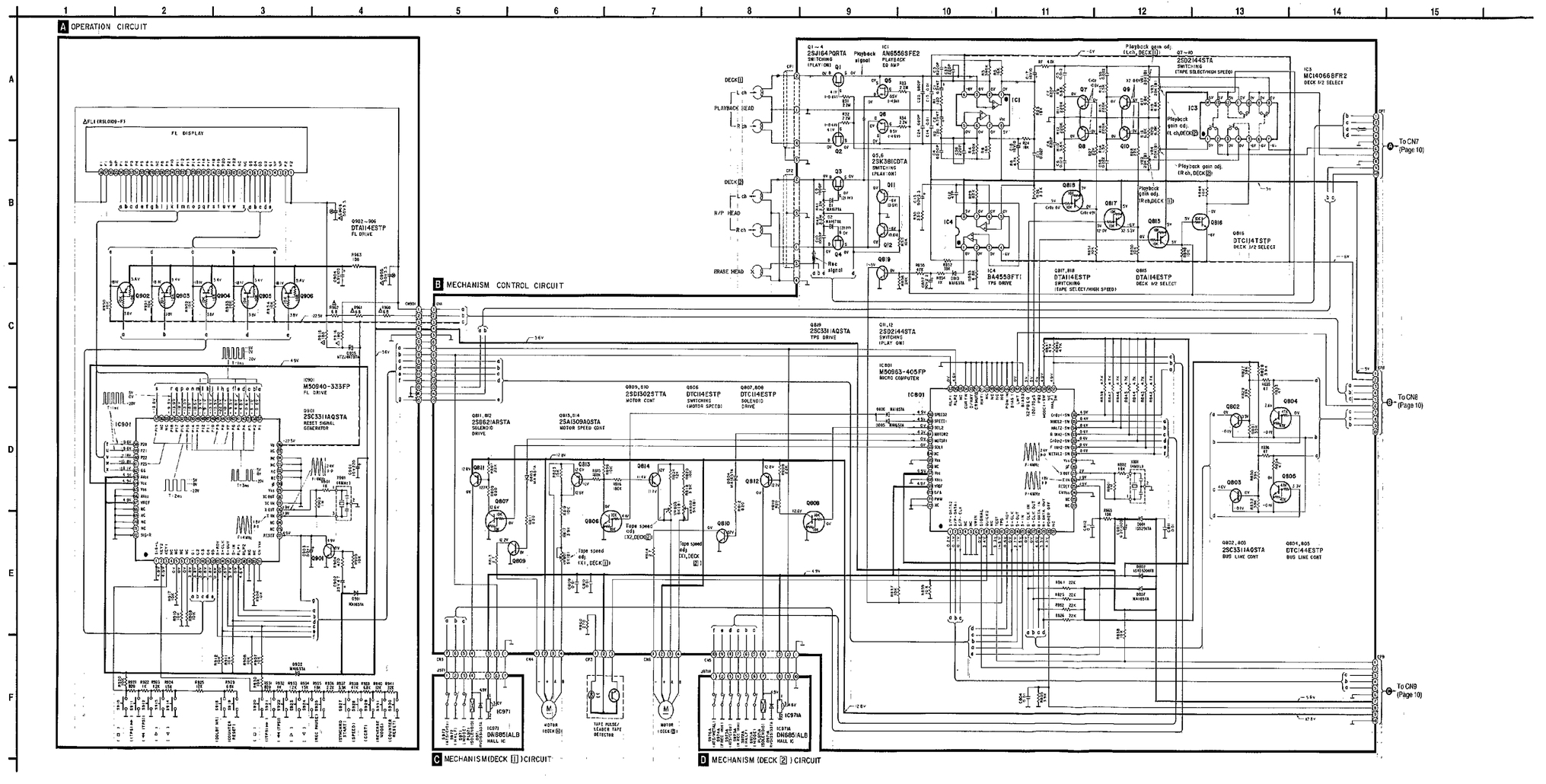
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- The supply part number is described alone in the replacement parts list.

Ref. No.	Production Parts No.	Supply Parts No.
IC4 IC203 IC271 IC501	BA4558FT1	SVIBA4558F

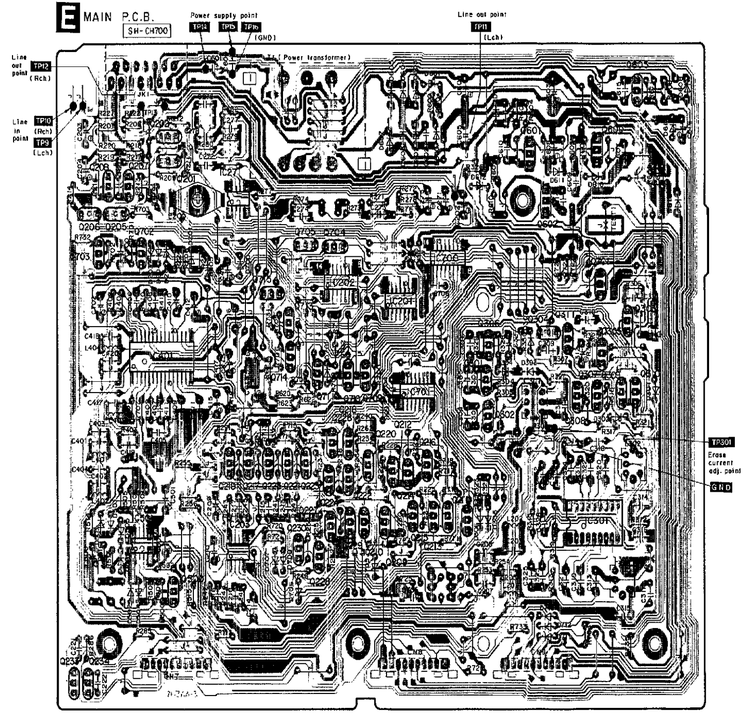
- **This schematic diagram may be modified at any time with the development of new technology.**

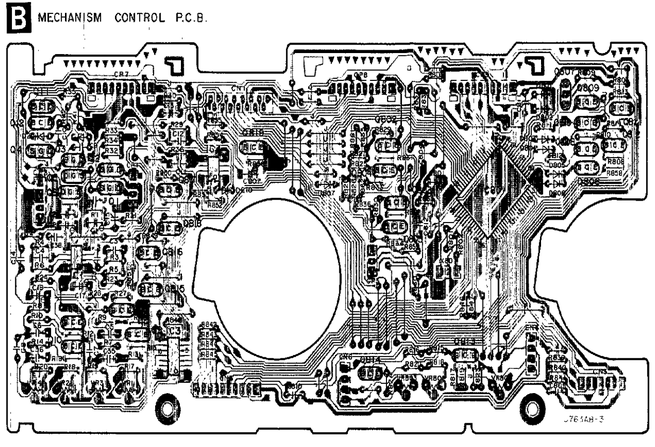
Caution!

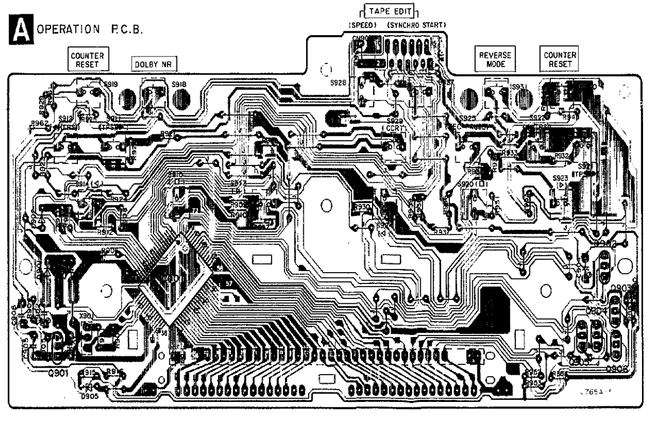
- IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers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

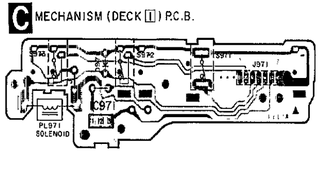


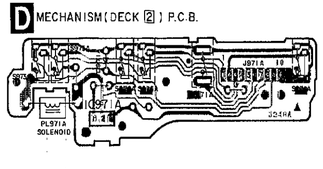
■ PRINTED CIRCUIT BOARDS





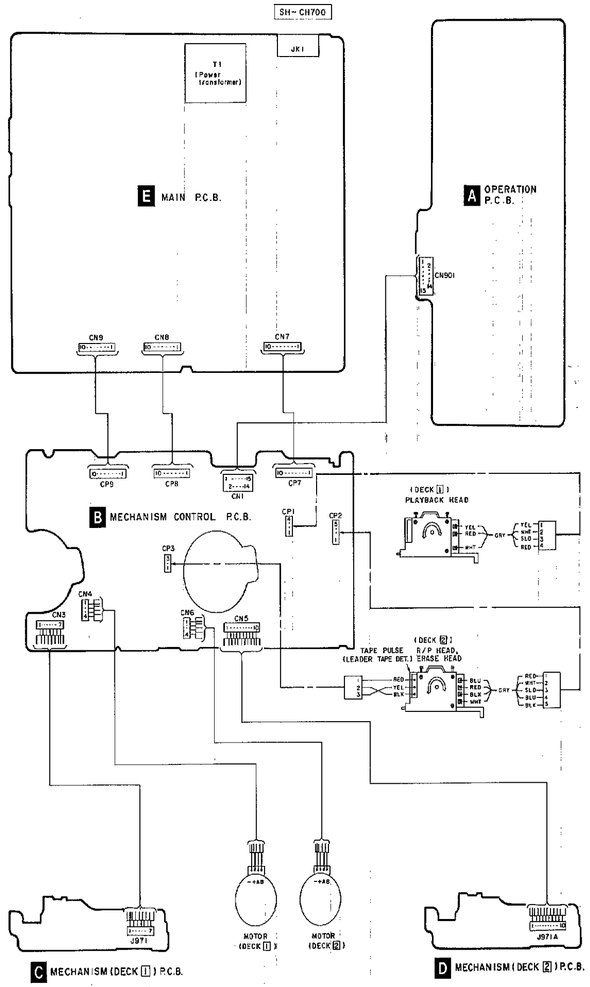




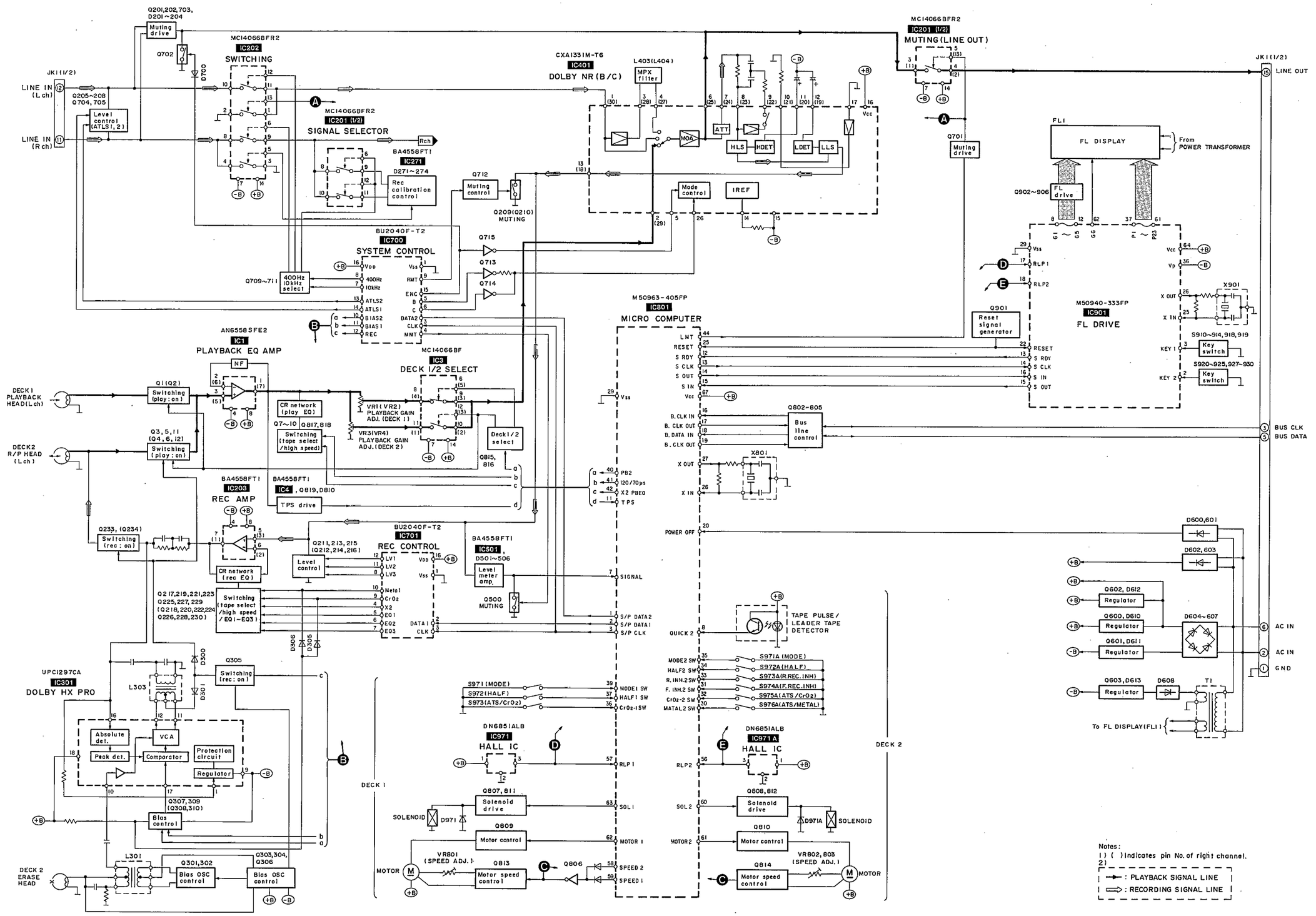


BA4558FT1		AN6558SFE2	8Pin
		MC14066BFR2	14Pin
		BU2040F-T2	16Pin
		CXA1331M-T6	30Pin
UPC1297CA	M50940-333FP M50963-405FP	DN6851ALB	
	2SD2144STA DTA114ESTP DTC114ESTP DTC114TSTP DTC143ESTP DTC143TSTP	DTC144ESTP	
	2SA1309AQSTA 2SC3311AQSTA 2SC3311ARSTA 2SC3312STTA	2SD1302STTA 2SB621ARSTA KSD471ACYGTA	
2SK381CDTA	2SJ164PQRTA	2SB1357EFTA 2SD2037EFTA	
2SD1862QRTV6	Cathode / Anode	MA165TA MA167TA 1SR35200TB	
Cathode / Anode	MTZJ4R7BTA MTZJ6R2CTA MTZJ6R8CTA MTZJ8R2CTA	MTZJ10CTA MTZJ22DTA	Cathode / Anode
1SS291TA	Cathode / Anode		

■ WIRING CONNECTION DIAGRAM



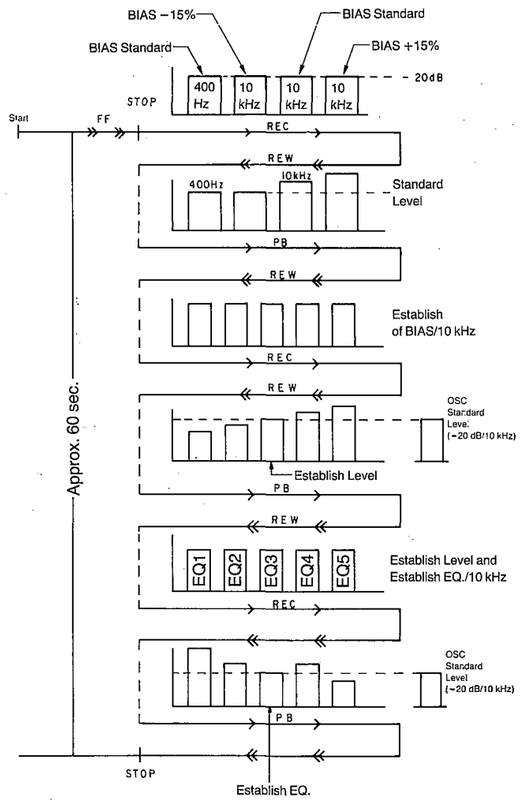
■ BLOCK DIAGRAM



■ COMPUTER CONTROL RECORDING SYSTEM (CCRT)

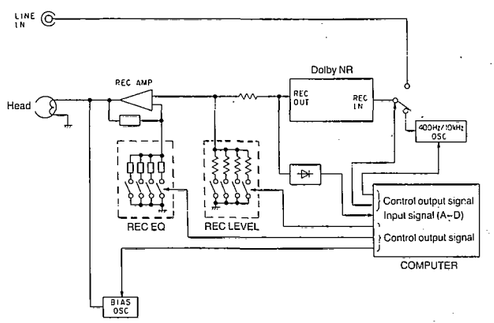
INTRODUCTION

The frequency characteristics of cassette tapes are various since the recording characteristics are diverse. The CCRT system function allows you to set the optimum recording bias and recording level (sensitivity), and equalizes the high frequency characteristics for optimum recording to suit the characteristics of the tape to be recorded.



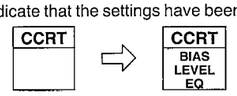
- When the CCRT button is pressed while the tape travel is in a stopped state, this unit will automatically perform the following operations.

1. The fast forward operation advances the leader tape and then stops.
2. 400 Hz and 10 kHz signals (OSC signals) are recorded at a level of −20 dB. At this time, the recording bias of only the 10 kHz signal is changed ±15% for recording at three levels: low bias, standard bias, and high bias.
3. The tape is rewound to the position for the start of recording and the mode is changed to the playback mode.
4. The levels of the 400 Hz signal (recorded at standard bias) and the 10 kHz signal (recorded at three bias levels) are compared and the value of the level which is closest is used to set the constant of the recording bias circuit to the optimum recording bias level.
5. The tape is rewound once again to the start of the magnetic tape.
6. The 400 Hz signal (OSC signal) is recorded at five recording levels at the optimum recording bias level (within the range of the −20 dB ±3 dB level).
7. The tape is rewound to the position for the start of recording and the mode is changed to the playback mode.
8. The 400 Hz signal which was recorded at five recording levels is compared with the OSC reference signal (−20 dB, 400 Hz), and the value of the level which is closest to the reference signal is used to set the constant of the recording level circuit to the optimum recording level.
9. The tape is rewound once again to the start of the magnetic tape.
10. The 10 kHz signal is recorded at five levels of recording equalizer characteristics (high range) at the optimum recording bias level and the optimum recording level.
11. The tape is rewound to the position for the start of recording and the mode is changed to the playback mode.
12. The signal which was recorded at five levels is compared with the 10 kHz OSC reference signal, and the value of the level which is closest to the reference signal is used to set the constant of the recording equalizer circuit to the optimum recording equalizer characteristic.
13. This completes the tuning operation, and the tape is rewound to the start of the magnetic tape.



Operation Procedure

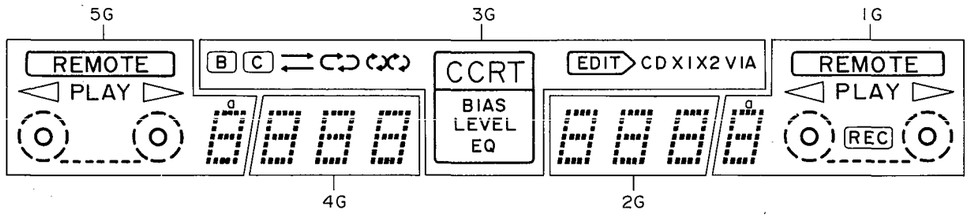
1. Load the tape to be recorded into the Deck 2 side.
2. Select the Dolby NR and the reverse mode desired.
3. Press the CCRT button to set to the CCRT mode. (The "CCRT" indication in the FL meter will light up.)
4. After approximately 60 seconds, the display will change as shown below to indicate that the settings have been completed.

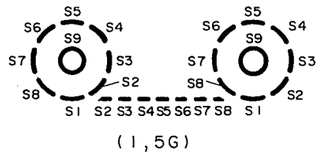


5. Set to the recording standby mode, select the source from which you wish to record, and begin recording.

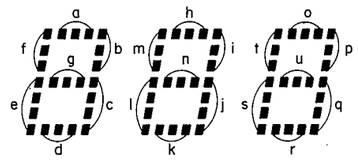
■ DESCRIPTION OF PANEL (FL1 RSL0109-F)

- **Grid assignment**





(1 , 5G)



(1 , 2 , 4 , 5G)

- **Pin connection**

Pin No.	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	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	NC	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	NC	NC	5G	4G	3G	2G	1G	NP	NP	F2	F2

- **Anode connection**

	5G	4G	3G	2G	1G
P1	a	a	B	a	a
P2	b	b	C	b	b
P3	c	c	—	c	c
P4	d	d	⇄	d	d
P5	e	e	↻	e	e
P6	f	f	⤫	f	f
P7	g	g	—	g	g
P8	S5	h	CCRT	h	S5
P9	S6	i	BIAS	i	S6
P10	S9	j	LEVEL	j	S9
P11	S8	k	EQ	k	S8
P12	S3	ℓ	—	ℓ	S3
P13	S4	m	—	m	S4
P14	S7	n	—	n	S7
P15	S2	—	—	—	S2
P16	S1	o	EDIT	o	S1
P17	REMOTE	p	CD	p	REMOTE
P18	◁	q	× 1	q	◁
P19	PLAY	r	× 2	r	PLAY
P20	▷	s	VIA	s	▷
P21	—	t	—	t	REC
P22	—	u	—	u	—

■ FUNCTIONS OF IC TERMINALS

•IC801 (M50963-405FP)

Pin No.	Terminal name	I/O	Function
1 2	S/P-DATA 2 S/P-DATA 1	O	Serial data signal output
3	S/P-CLK	O	Serial clock signal output
4~6	—	—	Not used (connect to GND)
7	ATLS	I	REC/PLAYBACK detection signal input
8	QUICK 2	I	Leader tape detector signal input (DECK 2)
9	QUICK 1	—	Not used (connect to GND)
10	TEST	I	Test terminal
11	MSP	I	TPS signal input
12 13 14 15	S-RDY S-CLK S-OUT S-IN	I O O I	Serial data and serial clock signal input/output
16 17 18 19	B-CLK IN B-CLK OUT B-DATA IN B-DATA OUT	I O I O	Data bass signal input/output
20	POWER OFF	I	Power off detector signal input
21~ 23	NC	—	Not used
24	CN V_{SS}	I	Connect to GND
25	RESET	I	Reset signal input
26 27	X IN X OUT	I O	Ceramic oscillator connection terminal (4 MHz)
28	—	—	Not used
29	V_{SS}	I	GND
30	MATAL-2 SW	I	Metal tape position detector signal input (DECK 2)
31	F. INH2-SW	I	Forward side record prevention tad detection signal input (DECK 2)
32	NOR 2-SW	I	Normal tape position detector signal input (DECK 2)
33	R. INH 2-SW	I	Reverse side record prevention tad detection signal input (DECK 2)
34	HALF 2-SW	I	DECK 2 cassette half detection signal input
35	MODE 2-SW	I	DECK 2 operation mode signal input
36	NOR 1-SW	I	Normal tape position detector signal input (DECK 1)

Pin No.	Terminal name	I/O	Function
37	HALF 1-SW	I	DECK 1 cassette half detection signal input
38	NC	—	Not used
39	MODE 1-SW	I	DECK 1 operation mode signal input
40	PB 2	O	Playback AMP control signal (selectore of input/output control signal) output
41	120/70 µS	O	Playback E.Q. AMP control signal output
42	X2 EQ	O	Playback E. Q AMP control signal output
43	NC	—	Not used (connect to GND)
44	LMT	O	Line out muting control signal output
45~ 54	—	—	Not used (connect to GND)
55	NC	—	Not used (open)
56	RLP 2	I	DECK 2 rotation pulse signal input of reel table
57	RLP 1	I	DECK 1 rotation pulse signal input of reel table
58	SPEED 2	O	DECK 2 tape speed control signal output
59	SPEED 1	O	DECK 1 tape speed control signal output
60	SOL 2	O	Plunger control signal output
61	MOTOR 2	O	DECK 2 motor control signal output
62	MOTOR 1	O	DECK 2 motor control signal output
63	SOL 1	O	Plunger control signal output
64	NC	—	Not used (open)
65	V_{SS}	I	Ground
66	NC	—	Not used (open)
67	V_{CC}	I	Power Supply
68	AV_{SS}	—	Not used (connect to GND)
69	VREF	—	Reference voltage input
70	D-A	—	Not used (open)
71, 72	RWM —	—	Not used (connect to GND)

•IC901 (M50940-333FP)

Pin No.	Terminal name	I/O	Function
1	SIS-L	I	S-Meter signal input
2	KEY 2	I	DECK 2 key control signal input
3	KEY 1	I	DECK 1 key control signal input
4	NC	—	Not used (open)
5~7	—	—	Not used (connect to GND)
8~12	G6~G2	O	FL grid signal output
13 14 15 16	S-PDY S-CLK S-OUT S-IN	O I O I	Serial data and serial clock signal input/output
17	RLP 1	I	DECK 1 rotation pulse signal input of reel table
18	RLP 2	I	DECK 2 rotation pulse signal input of reel table
19	AC OFF	I	Not used (open)
20 21	— CN V_{SS}	— I	Connect to GND
22	RESET	I	Reset signal input
23, 24	NC	—	Not used (open)
25 26	X IN X OUT	I O	Ceramic oscillator connection terminal (4 MHz)
27	XC IN	I	Not used (connect to GND)
28	XC OUT	O	Not used (open)
29	V_{SS}	I	Ground
30	(NC)	—	Not used (open)
31~ 34	—	—	Not used (connect to GND)
35	NC	—	Not used (open)
36	VP	I	Pull down voltage input
37~ 54	P1~P18	O	FL Anode signal output
55, 56	NC	—	Not used (open)

Pin No.	Terminal name	I/O	Function
57~ 61	P19~P23	O	FL Anode signal output
62	G1	O	FL Grid signal output
63	AV_{CC}	I	A/D of Power supply terminal
64	V_{CC}	I	Power supply terminal
65	V_{SS}	I	Ground
66	AV_{SS}	I	A/D of ground terminal
67	VREF	I	A/D of reference voltage input
68~ 71	—	—	Not used (connect to GND)
72	SIS-R	I	S-Meter signal input

■ 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	AN6558SFE2	I. C, PLAYBACK EQ. AMP.	
IC3	MC14066BFR2	I. C, DECK 1/2 SELECT	
IC4	SVIBA4558F	I. C, TPS DRIVE	
IC201	MC14066BFR2	I. C, SIGNAL SELECTOR	
IC202	MC14066BFR2	I. C, SWITCHING	
IC203	SVIBA4558F	I. C, REC AMP.	
IC271	SVIBA4558F	I. C, REC CALIBRATION CONT.	
IC301	UPC1297CA	I. C, DOLBY HX PRO	
IC401	CXA1331M-T6	I. C, DOLBY NR(B/C)	
IC501	SVIBA4558F	I. C, LEVEL METER AMP.	
IC700	BU2040F-T2	I. C, SYSTEM CONTROL	
IC701	BU2040F-T2	I. C, REC CONTROL	
IC801	M50963-405FP	I. C, MICRO COMPUTER	
IC901	M50940-333FP	I. C, FL DRIVE	
IC971	DN6851ALB	I. C, HALL(DECK1)	
IC971A	DN6851ALB	I. C, HALL(DECK2)	
		TRANSISTOR(S)	
Q1-4	2SJ164PQRTA	TRANSISTOR	
Q5, 6	2SK381BCDTA	TRANSISTOR	
Q7-9	2SD2144S	TRANSISTOR	
Q10-12	2SD2144S	TRANSISTOR	
Q201, 202	2SC3312STTA	TRANSISTOR	
Q205-208	2SC3311A-Q	TRANSISTOR	
Q209, 210	2SD2144S	TRANSISTOR	
Q211-216	DTC143TSTP	TRANSISTOR	
Q217, 218	DTC143ESTP	TRANSISTOR	
Q219, 220	2SD2144S	TRANSISTOR	
Q221-226	DTC143TSTP	TRANSISTOR	
Q227-230	DTC143ESTP	TRANSISTOR	
Q233, 234	2SK381BCDTA	TRANSISTOR	
Q301, 302	2SC3311ARSTA	TRANSISTOR	
Q303	2SB621A-R	TRANSISTOR	
Q304	KSD471ACYGTA	TRANSISTOR	
Q305	2SB621A-R	TRANSISTOR	
Q306	2SC3311A-Q	TRANSISTOR	
Q307, 308	DTC143TSTP	TRANSISTOR	
Q309-311	DTA114ESTP	TRANSISTOR	
Q500	2SC3311A-Q	TRANSISTOR	
Q600	2SD2037EFTA	TRANSISTOR	
Q601	2SB1357EFTA	TRANSISTOR	
Q602	2SD1862QRTV6	TRANSISTOR	
Q603	2SA1309A-R	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q701	DTA114ESTP	TRANSISTOR	
Q702	DTC114ESTP	TRANSISTOR	
Q703	2SC3312STTA	TRANSISTOR	
Q704, 705	DTA114ESTP	TRANSISTOR	
Q709, 710	DTA114ESTP	TRANSISTOR	
Q711	DTC114ESTP	TRANSISTOR	
Q712-715	DTA114ESTP	TRANSISTOR	
Q802, 803	2SC3311A-Q	TRANSISTOR	
Q804, 805	DTC144ESTP	TRANSISTOR	
Q806-808	DTC114ESTP	TRANSISTOR	
Q809, 810	2SD1302STTA	TRANSISTOR	
Q811, 812	2SB621A-R	TRANSISTOR	
Q813, 814	2SA1309A-R	TRANSISTOR	
Q815	DTA114ESTP	TRANSISTOR	
Q816	DTC114TSTP	TRANSISTOR	
Q817, 818	DTA114ESTP	TRANSISTOR	
Q819	2SC3311A-Q	TRANSISTOR	
Q901	2SC3311A-Q	TRANSISTOR	
Q902-906	DTA114ESTP	TRANSISTOR	
		DIODE(S)	
D1, 2	MA167	DIODE	
D201-204	MA165	DIODE	
D301	MA165	DIODE	
D302	MTZJ6R8CTA	DIODE	
D303	MA167	DIODE	
D304	MTZJ10CTA	DIODE	
D305-307	MA165	DIODE	
D501-506	MA165	DIODE	
D600, 601	MA165	DIODE	⚠
D602-608	1SR35200TB	DIODE	⚠
D610, 611	MTZJ8R2CTA	DIODE	
D612	MTZJ6R2CTA	DIODE	
D613	MTZJ22DTA	DIODE	
D616	1SR35200TB	DIODE	⚠
D617	MA165	DIODE	
D700-702	MA165	DIODE	
D705-708	MA165	DIODE	
D710-712	MA165	DIODE	
D801	1SS291TA	DIODE	
D802	1SR35200TB	DIODE	
D803-807	MA165	DIODE	
D810	MA165	DIODE	
D901, 902	MA165	DIODE	
D905	MTZJ4R7BTA	DIODE	
D971	RVD1SS133TA	DIODE	

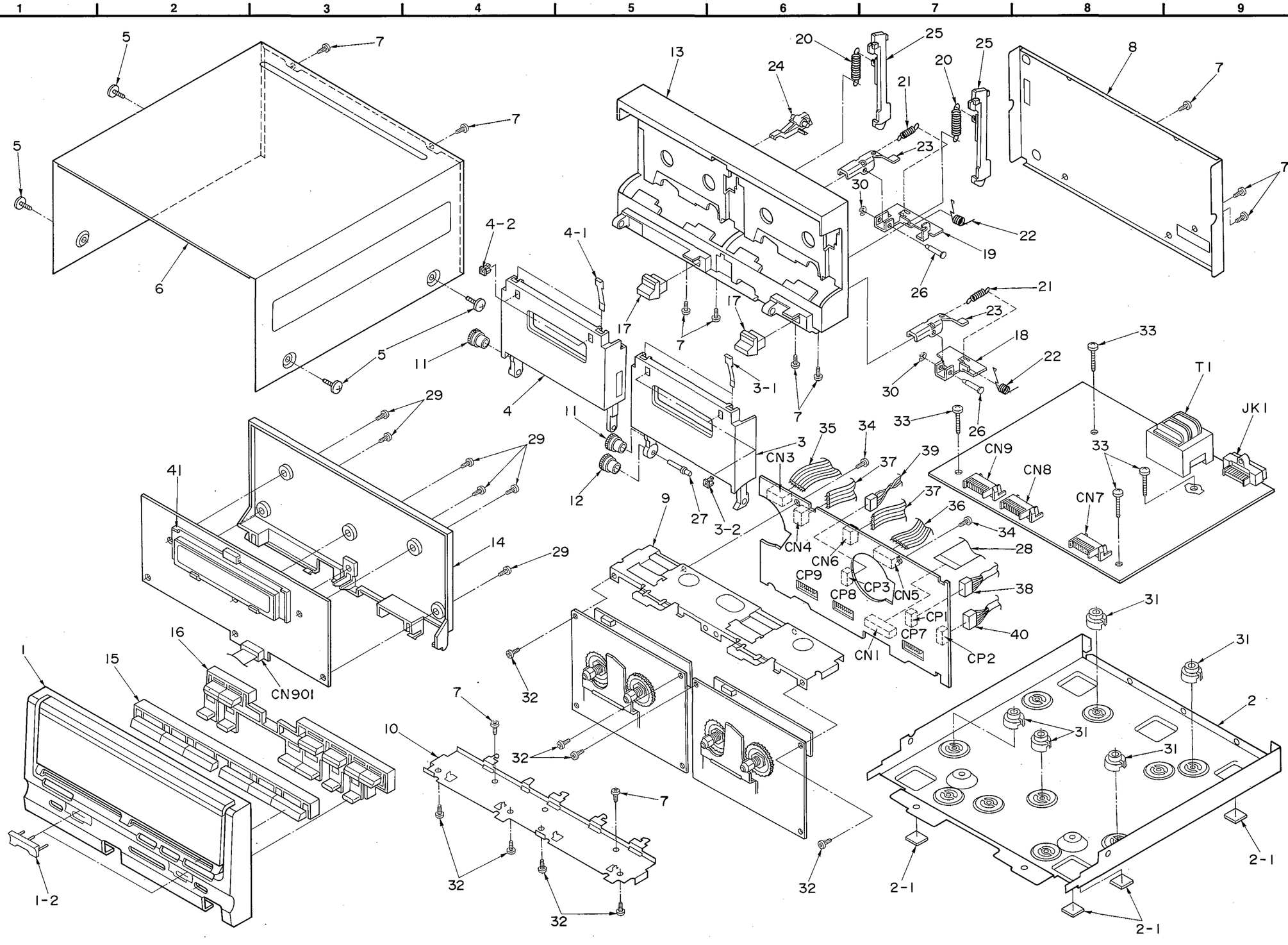
Ref. No.	Part No.	Part Name & Description	Remarks
D971A	RVD1SS133TA	DIODE	
		VARIABLE RESISTOR(S)	
VR1-4	EVNDCAA03B24	V. R, P. B. GAIN ADJ.	
VR801-803	EVNDCAA03B53	V. R, TAPE SPEED ADJ.	
		COIL(S)	
L201, 202	SLQX303-1KT	COIL	
L301	SL09B4-K	COIL	
L302, 303	SL09B1-Z	COIL	
L401-404	SLQX303-1KT	COIL	
		TRANSFORMER(S)	
T1	RTP114G002	TRANSFORMER	⚠
		OSCILLATOR(S)	
X801	EFOGC4004A4	OSCILLATOR	
X901	EFOGC4004A4	OSCILLATOR	
		DISPLAY	
FL1	RSL0109-F	DISPLAY	⚠
		SWITCH(ES)	
S910	EVQ21405R	S. W, STOP(DECK1)	
S911	EVQ21405R	S. W, TPS(FF) (DECK1)	
S912	EVQ21405R	S. W, TPS(REW) (DECK1)	
S913	EVQ21405R	S. W, PLAY(FWD) (DECK1)	
S914	EVQ21405R	S. W, PLAY(REV) (DECK1)	
S918	EVQ21405R	S. W, DOLBY NR	
S919	EVQ21405R	S. W, COUNTER RESET(DECK1)	
S920	EVQ21405R	S. W, STOP(DECK2)	
S921	EVQ21405R	S. W, TPS(FF) (DECK2)	
S922	EVQ21405R	S. W, TPS(REW) (DECK2)	
S923	EVQ21405R	S. W, PLAY(FWD) (DECK2)	
S924	EVQ21405R	S. W, PLAY(REV) (DECK2)	
S925	EVQ21405R	S. W, REC PAUSE	
S927	EVQ21405R	S. W, SYNCHRO START	
S928	EVQ21405R	S. W, SPEED	
S929	EVQ21405R	S. W, CCRT	
S930	EVQ21405R	S. W, COUNTER RESET(DECK2)	
S931	EVQ21405R	S. W, REVERSE MODE	
S971	RSH1A89Z	S. W, MODE(DECK1)	
S971A	RSH1A89Z	S. W, MODE(DECK2)	
S972	RSH1A90YB-U	S. W, HALF(DECK1)	
S972A	RSH1A90YB-U	S. W, HALF(DECK2)	
S973	RSH1A90YB-U	S. W, ATS/CrO2(DECK1)	

Ref. No.	Part No.	Part Name & Description	Remarks
S973A	RSH1A90YB-U	S. W, R. REC. INH(DECK2)	
S974A	RSH1A90YB-U	S. W, F. REC. INH(DECK2)	
S975A	RSH1A90YB-U	S. W, ATS/CrO2(DECK2)	
S976A	RSH1A90YB-U	S. W, ATS/METAL(DECK2)	
		CONNECTOR(S)	
CN1	RJS15Q8ZA	SOCKET(15P)	
CN3	RJS7T4ZA	SOCKET(7P)	
CN4	RJS1A6604	SOCKET(4P)	
CN5	SJSD1005	CONNECTOR(10P)	
CN6	RJS1A6604	SOCKET(4P)	
CN7-9	RJU003K010M1	SOCKET(10P)	
CN901	RJS15Q9ZA	SOCKET(15P)	
CP1	SJTD413	CONNECTOR(4P)	
CP2	RJP5G18ZA	CONNECTOR(5P)	
CP3	SJTD313	CONNECTOR(3P)	
CP7-9	RJT003K10VM	CONNECTOR(10P)	
		EARTH TERMINAL	
E200	SNE1004-1	GND PLATE	
		JACK(S)	
JK1	RJT055K015-1	CONNECTOR(15P)	
J971	RJS7T7ZA	SOCKET(7P)	
J971A	RJS10T7ZA	SOCKET(10P)	

Notes : * Capacity values 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	ERDS2EJ121	1/4W 120
R3, 4	ERDS2TJ394	1/4W 390K
R5, 6	ERDS2TJ163T	1/4W 16K
R7, 8	ERDS2TJ472	1/4W 4.7K
R9	ERDS2TJ562	1/4W 5.6K
R10	ERDS2TJ562	1/4W 5.6K
R11, 12	ERDS2TJ224T	1/4W 220K
R13, 14	ERDS2TJ152	1/4W 1.5K
R15, 16	ERDS2TJ224T	1/4W 220K
R17-20	ERDS2TJ682T	1/4W 6.8K
R23, 24	ERDS2TJ183T	1/4W 18K
R27, 28	ERDS2TJ223	1/4W 22K
R29	ERDS2TJ823T	1/4W 82K
R30	ERDS2TJ331	1/4W 330
R31-34	ERDS2TJ225	1/4W 2.2M
R35	ERDS2TJ103	1/4W 10K
R36	ERDS2TJ332	1/4W 3.3K
R41, 42	ERDS2TJ225	1/4W 2.2M
R205, 206	ERDS2TJ152	1/4W 1.5K
R207, 208	ERDS2TJ104	1/4W 100K
R209, 210	ERDS2TJ273	1/4W 27K
R211-214	ERDS2TJ223	1/4W 22K
R215, 216	ERDS2TJ103	1/4W 10K
R217, 218	ERDS2TJ822	1/4W 8.2K
R219, 220	ERDS2TJ563	1/4W 56K
R221, 222	ERDS2TJ394	1/4W 390K
R223, 224	ERDS2TJ223	1/4W 22K
R225, 226	ERDS2TJ682T	1/4W 6.8K
R227, 228	ERDS2TJ123	1/4W 12K
R229, 230	ERDS2TJ273	1/4W 27K
R233, 234	ERDS2TJ220T	1/4W 22
R235, 236	ERDS2TJ821	1/4W 820
R237-240	ERDS2TJ222	1/4W 2.2K
R241, 242	ERDS2TJ181T	1/4W 180
R243, 244	ERDS2TJ563	1/4W 56K
R245, 246	ERDS2TJ123	1/4W 12K
R247, 248	ERDS2TJ222	1/4W 2.2K
R249, 250	ERDS2TJ562	1/4W 5.6K
R251, 252	ERDS2TJ682T	1/4W 6.8K
R253, 254	ERDS2TJ103	1/4W 10K
R255, 256	ERDS2TJ153	1/4W 15K
R261, 262	ERDS2TJ391	1/4W 390
R271	ERDS2TJ124T	1/4W 120K
R272	ERDS2TJ101	1/4W 100
R273, 274	ERDS2TJ393	1/4W 39K
R276	ERDS2TJ183T	1/4W 18K
R277	ERDS2TJ124T	1/4W 120K
R278	ERDS2EJ121	1/4W 120
R279, 280	ERDS2TJ123	1/4W 12K
R282	ERDS2TJ562	1/4W 5.6K
R285, 286	ERDS2TJ225	1/4W 2.2M
R291, 292	ERDS2TJ472	1/4W 4.7K
R301	ERDS2TJ1R0	1/4W 1.0
R302, 303	ERDS2TJ183T	1/4W 18K
R304, 305	ERDS2TJ100	1/4W 10
R306	ERDS2TJ471	1/4W 470
R307	ERDS2TJ102	1/4W 1K
R311, 312	ERDS2TJ101	1/4W 100
R313, 314	ERDS2TJ154	1/4W 150K
R315, 316	ERDS2TJ153	1/4W 15K
R317	ERDS2TJ392T	1/4W 3.9K
R318	ERDS2TJ103	1/4W 10K
R319	ERDS2TJ152	1/4W 1.5K
R320	ERDS2TJ472	1/4W 4.7K
R321	ERDS2TJ102	1/4W 1K
R322	ERDS2TJ152	1/4W 1.5K
R323	ERDS2TJ102	1/4W 1K
R324	ERDS2TJ472	1/4W 4.7K
R325	ERDS2TJ272T	1/4W 2.7K
R326	ERD2FCVG330T	1/4W 33 ⚠
R327	ERDS2TJ103	1/4W 10K
R328	ERDS2TJ683	1/4W 68K
R329	ERDS2TJ562	1/4W 5.6K
R330	ERDS2TJ222	1/4W 2.2K
R401, 402	ERDS2TJ242	1/4W 2.4K
R403, 404	ERDS2TJ562	1/4W 5.6K
R409, 410	ERDS2TJ243T	1/4W 24K
R411, 412	ERDS2TJ561	1/4W 560
R417	ERDS2TJ151	1/4W 150
R418	ERDS2TJ273	1/4W 27K
R500	ERDS2TJ332	1/4W 3.3K
R501, 502	ERDS2TJ103	1/4W 10K
R503	ERDS2TJ823T	1/4W 82K
R504, 505	ERDS2TJ224T	1/4W 220K
R506	ERDS2TJ823T	1/4W 82K
R513	ERDS2TJ220T	1/4W 22
R514, 515	ERDS2TJ472	1/4W 4.7K
R516	ERDS2TJ392T	1/4W 3.9K
R600, 601	ERDS2TJ472	1/4W 4.7K
R603, 604	ERDS2TJ102	1/4W 1K
R605	ERD2FCVJ4R7T	1/4W 4.7 ⚠
R606	ERD2FCVJ8R2T	1/4W 8.2 ⚠
R607	ERD2FCVG150T	1/4W 15 ⚠
R608	ERDS1FVJ100T	1/2W 10 ⚠
R609	ERDS2TJ100	1/4W 10
R610	ERDS2TJ222	1/4W 2.2K
R611	ERDS2TJ102	1/4W 1K
R620-623	ERDS2TJ270T	1/4W 27
R700	ERDS2TJ473	1/4W 47K
R701	ERDS2TJ103	1/4W 10K
R702	ERDS2TJ472	1/4W 4.7K
R703, 704	ERDS2TJ103	1/4W 10K
R705	ERDS2TJ822	1/4W 8.2K
R706, 707	ERDS2TJ103	1/4W 10K
R708-711	ERDS2TJ473	1/4W 47K
R712-719	ERDS2TJ472	1/4W 4.7K
R720, 721	ERDS2TJ222	1/4W 2.2K
R722-725	ERDS2TJ103	1/4W 10K
R726	ERDS2TJ100	1/4W 10
R727	ERDS2TJ182	1/4W 1.8K
R731	ERDS2TJ103	1/4W 10K
R732	ERDS2TJ475T	1/4W 4.7M
R733-735	ERDS2TJ393	1/4W 39K
R801	ERDS2TJ105T	1/4W 1M
R802	ERDS2TJ182	1/4W 1.8K
R803	ERDS2TJ392T	1/4W 3.9K
R807, 808	ERDS2TJ223	1/4W 22K
R809-812	ERDS2TJ821	1/4W 820
R813, 814	ERDS2TJ2R7T	1/4W 2.7
R815, 816	ERDS2TJ184T	1/4W 180K
R817, 818	ERDS2TJ392T	1/4W 3.9K
R819, 820	ERDS2TJ103	1/4W 10K
R823	ERDS2TJ153	1/4W 15K
R824	ERDS2TJ123	1/4W 12K
R825, 826	ERDS2TJ223	1/4W 22K
R827-832	ERDS2TJ393	1/4W 39K
R833-836	ERDS2TJ470	1/4W 47
R837, 838	ERDS2TJ103	1/4W 10K
R839-847	ERDS2TJ472	1/4W 4.7K
R848-851	ERDS2TJ103	1/4W 10K
R852	ERDS2TJ393	1/4W 39K
R853	ERDS2TJ682T	1/4W 6.8K
R854	ERDS2TJ102	1/4W 1K
R855	ERDS2TJ473	1/4W 47K
R856	ERDS2TJ243T	1/4W 24K
R858, 859	ERDS2TJ103	1/4W 10K
R860	ERDS2TJ271	1/4W 270
R861, 862	ERDS2TJ223	1/4W 22K
R865	ERDS2TJ103	1/4W 10K
R901	ERDS2TJ102	1/4W 1K
R902	ERDS2TJ105T	1/4W 1M
R904	ERDS2TJ471	1/4W 470
R905-912	ERDS2TJ103	1/4W 10K
R915, 916	ERDS2TJ181T	1/4W 180 ⚠
R917	ERDS2TJ103	1/4W 10K
R920	ERDS2TJ103	1/4W 10K
R921	ERDS2TJ821	1/4W 820
R922	ERDS2TJ102	1/4W 1K
R923	ERDS2TJ122	1/4W 1.2K
R924	ERDS2TJ152	1/4W 1.5K
R925	ERDS2TJ123	1/4W 12K
R929	ERDS2TJ682T	1/4W 6.8K
R930	ERDS2TJ103	1/4W 10K
R931	ERDS2TJ821	1/4W 820
R932	ERDS2TJ102	1/4W 1K
R933	ERDS2TJ122	1/4W 1.2K
R934	ERDS2TJ152	1/4W 1.5K
R935	ERDS2TJ182	1/4W 1.8K
R936	ERDS2TJ222	1/4W 2.2K
R937	ERDS2TJ332	1/4W 3.3K
R938	ERDS2TJ472	1/4W 4.7K
R939	ERDS2TJ682T	1/4W 6.8K
R940	ERDS2TJ123	1/4W 12K
R941	ERDS2TJ223	1/4W 22K
R950-954	ERDS2TJ103	1/4W 10K
R960-962	ERDS2TJ6R8	1/4W 6.8 ⚠
R963	ERDS2TJ101	1/4W 100
		CAPACITORS
C1, 2	ECEA0JKA470B	6.3V 47U
C3, 4	ECQB1H822JF3	50V 8200P
C5, 6	ECQB1H123JF3	50V 0.012U
C7, 8	ECBT1H821KB5	50V 820P
C9	ECBT1H102KB5	50V 1000P
C10	ECBT1H102KB5	50V 1000P
C11	ECQB1H273JF3	50V 0.027U
C12	ECCR1H470K5	50V 47P
C13	ECEA1HKA3R3B	50V 3.3U
C14, 15	ECBT1E103ZF	25V 0.01U
C17, 18	ECEA1CKA100B	16V 10U
C23, 24	ECBA1H681KB5	50V 680P
C35, 36	ECQB1H223JF3	50V 0.022U
C37, 38	ECBT1H221KB5	50V 220P
C201, 202	ECEA1CKA100B	16V 10U
C203, 204	ECEA1HKS010	50V 1U
C205, 206	ECKR2H121KB5	500V 120P
C207, 208	ECBT1H561KB5	50V 560P
C209, 210	ECEA1EKA4R7B	25V 4.7U
C213, 214	ECQB1H472JF3	50V 4700P
C215, 216	ECQB1H123JF3	50V 0.012U
C217, 218	ECEA1HKAR22B	50V 0.22U
C221, 222	ECBT1H102KB5	50V 1000P
C271	ECEA1CKA100B	16V 10U
C272	ECQB1H273JF3	50V 0.027U
C273, 274	ECQB1H103JF3	50V 0.01U
C275	ECEA1CKA100B	16V 10U
C276	ECQB1H332JF3	50V 3300P
C277, 278	ECQB1H122JF3	50V 1200P
C301	ECQP1153JZ	100V 0.015U
C302	ECEA1EKA4R7B	25V 4.7U
C303	ECKR1H392KB5	50V 3900P
C304, 305	ECKW1H222KB5	50V 2200P
C306	ECKD1H682KB	50V 6800P
C309	ECKR1H103ZF5	50V 0.01U
C310	ECKR1H472KB5	50V 4700P
C311	ECEA1AKA221Q	10V 220U
C312	ECEA1CKA330B	16V 33U
C313, 314	ECKT1H223ZF	50V 0.022U
C315, 316	ECKR2H821KB5	500V 820P
C317, 318	ECBT1H121KB5	50V 120P
C319, 320	ECQV1H473JZ3	50V 0.047U
C321, 322	ECQB1H223JF3	50V 0.022U
C323, 324	ECQB1H103JF3	50V 0.01U
C325, 326	ECKT1H122KB	50V 1200P
C327	ECEA1HKA010B	50V 1U
C328	ECCR2H100K5	500V 10P
C331	ECKR1H103ZF5	50V 0.01U
C332	ECEA1CKA100B	16V 10U
C401, 402	ECBT1H121KB5	50V 120P
C403, 404	ECBT1C152JR5	16V 1500P
C405-408	ECKW1H222KB5	50V 2200P
C409, 410	ECEA1HUR56B	50V 0.56U
C411, 412	ECEA1HKAR33B	50V 0.33U
C413-416	ECEA1EKA4R7B	25V 4.7U
C417, 418	ECBT1H121KB5	50V 120P
C419, 420	ECBT1C152JR5	16V 1500P
C500-502	ECEA1CKA100B	16V 10U
C600, 601	ECBT1H104ZF5	50V 0.1U ⚠
C602	ECKD1H682KB	50V 6800P ⚠
C603	ECEA1EU222B	25V 2200U
C604, 605	ECA1EM102B	25V 1000U
C606	ECKR1H103ZF5	50V 0.01U
C607, 608	ECEA1AKA101B	10V 100U
C609, 610	ECKR1H103ZF5	50V 0.01U
C611	ECEA1HKA010B	50V 1U
C612, 613	ECEA1AU471	10V 470U
C614, 615	ECKR1H103ZF5	50V 0.01U
C616	ECA1HM470B	50V 47U
C700	ECEA1EKA4R7B	25V 4.7U
C702	ECEA1CKA100B	16V 10U
C703	ECBT1H470J5	50V 47P
C704	ECBT1E103ZF	25V 0.01U
C705	ECKR1H103ZF5	50V 0.01U
C706	ECBT1H470J5	50V 47P
C801	ECA0JM102B	6.3V 1000U
C804	ECBT1E103ZF	25V 0.01U
C807	ECEA1HKA2R2B	50V 2.2U
C809-811	ECBT1E103ZF	25V 0.01U
C812	ECBT1H104ZF5	50V 0.1U
C901	ECEA1AKA221Q	10V 220U
C902	ECEA1EKA4R7B	25V 4.7U
C903	ECEA1HKA010B	50V 1U
C904	ECEA0JKA101B	6.3V 100U
C905, 906	ECEA1HKN3R3B	50V 3.3U ⚠

■ CABINET PARTS LOCATION

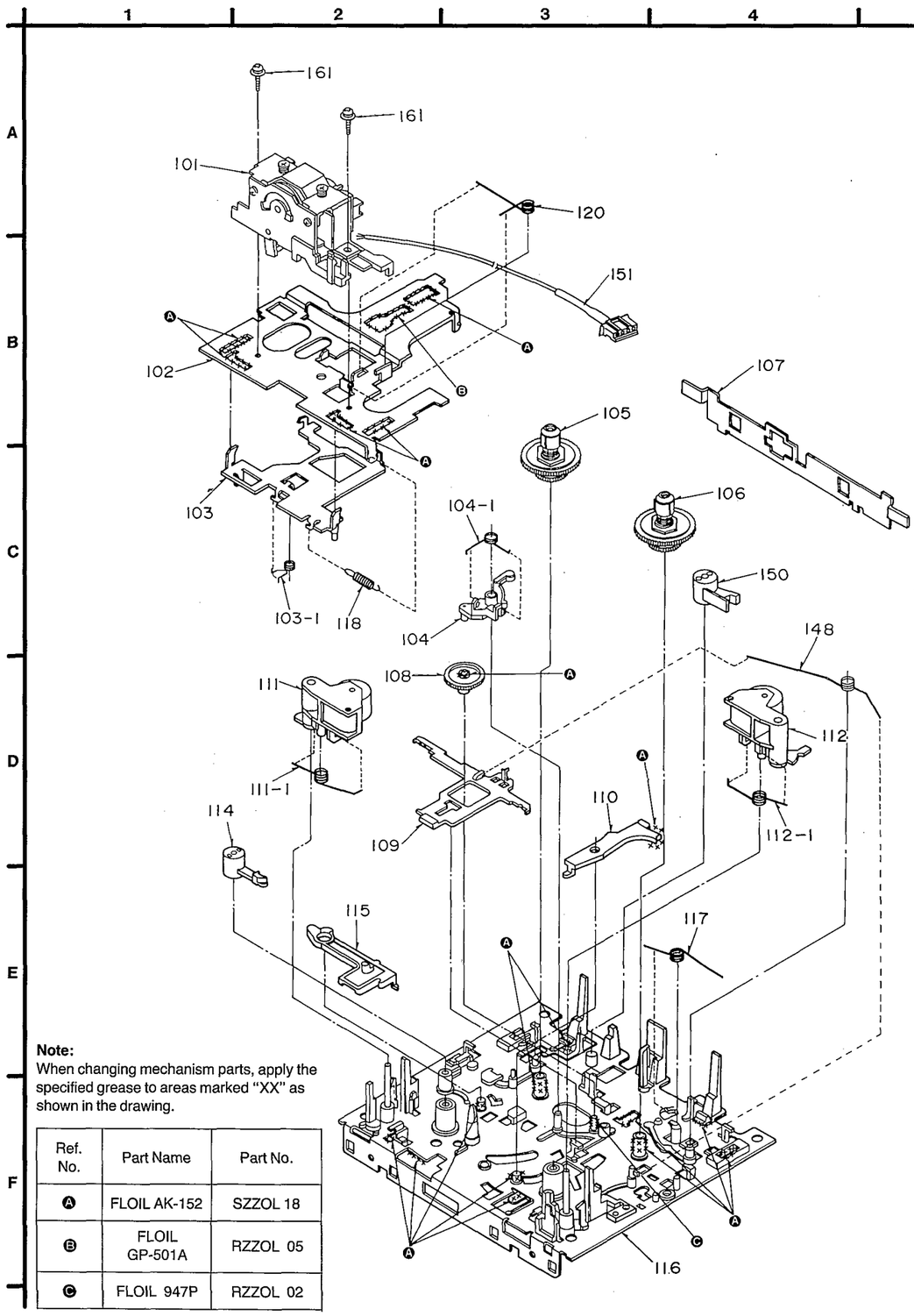


Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RFKGSCH700EA	FRONT PANEL ASS'Y	
1-1	RFKGSCH700EB	FL PANEL ASS'Y	
1-2	RGK0430-K	ORNAMENT	
2	RFKJSCH700NK	BOTTOM BOARD ASS'Y	
2-1	RKA0043	FOOT	
3	RFKLSCH700BK	CASSETTE LID(R) ASS'Y	
3-1	QBP2006A	SPRING	
3-2	RMR0485	ORNAMENT	
4	RFKLSCH700AK	CASSETTE LID(L) ASS'Y	
4-1	QBP2006A	SPRING	
4-2	RMR0485	ORNAMENT	
5	RHD30007	SCREW	
6	RKM0105-K	CABINET	
7	XTBS3+8JFZ1	SCREW	
8	RGR0131A-C1	REAR PANEL	
9	RMA0520	MECHANISM ANGLE(UPPER)	
10	RMA0521	MECHANISM ANGLE(LOWER)	
11	RDG0167	GEAR	
12	RDG0168	GEAR	
13	RGP0198-1K1	FRONT PANEL BASE	
14	RGP0199-K3	FRONT PANEL COVER	
15	RGU0659-K	BUTTON, OPERATION(A)	
16	RGU0660-K	BUTTON, OPERATION(B)	
17	RGU0661-K	BOTTON, EJECT	
18	RMA0440	EJECT ANGLE(A)	
19	RMA0441	EJECT ANGLE(B)	
20	RMB0141-1	SPRING	
21	RMB0160	SPRING	
22	RMB0193	SPRING	
23	RML0221	EJECT LEVER	
24	RML0222	PANEL LEVER	
25	RMM0061-1	EJECT ROD	
26	RMS0242	EJECT SHAFT	
27	RMS0310	HOLDER SHAFT	
28	RWJ5215220C1	FLEXIBLE CABLE(15P)	
29	XTB3+10JFZ	SCREW	
30	XUC2FT	E-RING	
31	SHE170-2	P.C.B. SPACER	
32	XTB26+6F	SCREW	
33	XTB3+12JFZ	SCREW	
34	XTB3+8JFZ	SCREW	
35	RWJ5707210QQ	FLAT CABLE(7P) (W3)	
36	RWJ5710200QQ	FLAT CABLE(10P) (W5)	
37	RWJ1804200QQ	FLAT CABLE(4P) (W4, W6)	
38	REX0132	FLAT CABLE(4P)	
39	REX0145	FLAT CABLE(10P)	
40	REX0172	FLAT CABLE(5P)	
41	RMN0150	FL HOLDER	

Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST	
(DECK1)			
101	RXQ0051-1	HEAD BLOCK(PLAY)	
102	RUA793ZF	HEAD BASE	
103	RZLAR300A	ROD	
103-1	RUW143ZA	SPRING	
104	1UB0089ZA	ARM	
104-1	RUW148ZA	SPRING	
105	1DM0018ZB	REEL TABLE(R)	
106	1DM0017ZB	REEL TABLE(F)	
107	RML0069-1	LEVER	
108	RDG5772ZC	GEAR	
109	RUB508ZB	BRAKET ROD	
110	RUB506ZB	LEVER	
111	1UB0088ZB	ARM(R)	
111-1	RUW141ZA	SPRING	
112	1UB0087ZB	ARM(F)	
112-1	RUW140ZC	SPRING	
114	RNL1ZD	DAMPER ARM	
115	RUB503ZD	MAIN LEVER	
116	RFKRRSCH9N	CHASSIS ASS'Y	
117	RUW142ZA	SPRING	
118	RUD105ZA	SPRING	
120	RUW139ZA	SPRING	
121	RFKPRSCH9N	DC MOTOR ASS'Y	
122	1UE0015ZB	PLUNGER	
123	RUB428ZE	MOVING IRON CORE	
124	RMA0101	ANGLE	
125	RMD5014ZC	ANGLE	
126	RDG5927ZG	MAIN GEAR	
127	1DW0037ZB	FLYWHEEL(F)	
127-1	RNW139ZA	WASHER	
128	1DW0038ZB	FLYWHEEL(R)	
128-1	RNW138ZA	WASHER	
129	1DG0006ZB	REEL TABLE GEAR	
130	RUB513ZD	ARM	
131	1UB0091ZA	LEVER	
131-1	RUW146ZA	SPRING	
132	1DR0011ZB	MAIN PULLEY	
133	RDV90ZB	BELT	
134	RDG5769ZA	REEL TABLE GEAR	
135	RUQ111ZB	SPRING	
136	RUW145ZA	SPRING	
137	1UB0090ZA	ROD	
137-1	RUB512ZB	ROD	
138	RDG5773ZB	GEAR	
139	RUQ112ZA	SPRING	
140	RUS609ZC	TAPE PRESSURE SPRING	
141	RUB514ZC	LEVER	
142	RUW147ZA	SPRING	
143	RUB515ZA	LEVER	

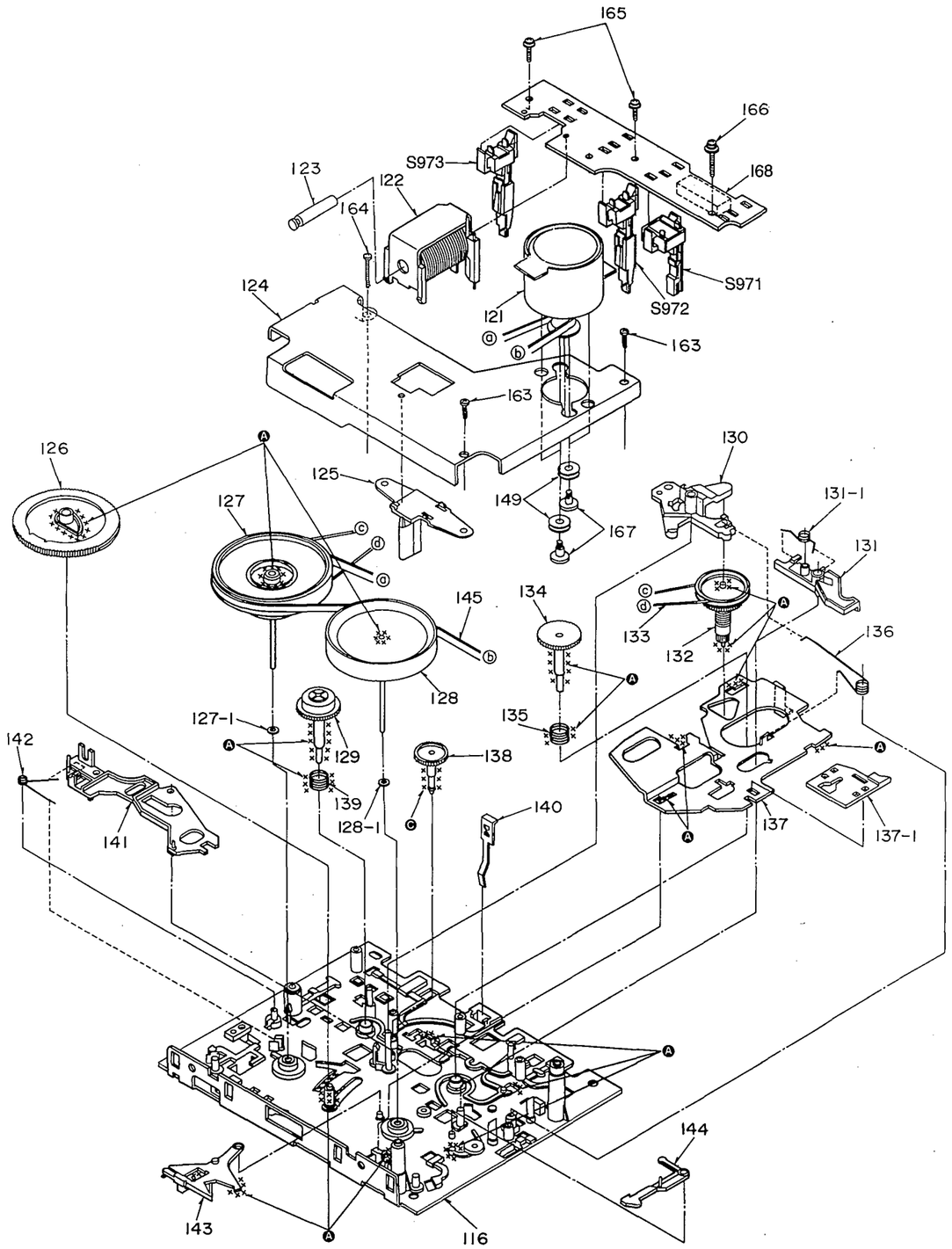
Ref. No.	Part No.	Part Name & Description	Remarks
144	RUB509ZA	LEVER	
145	RDV108ZA	CAPSTAN BELT	
148	RUW144ZA	SPRING	
149	RHG3032ZA	RUBBER CUSHION	
150	RNL180ZB	DAMPER ARM	
151	REX0132	LEAD WIRE(4P)	
161	XTW2+6L	SCREW	
163	XTN26+7J	SCREW	
164	RHE5203ZA	SCREW	
165	XTW2+8S	SCREW	
166	XYC2+JF16	SCREW	
167	RHD26002	SCREW	
168	RJS7T7ZA	SOCKET(7P)	

■ MECHANISM PARTS LOCATION •DECK 1

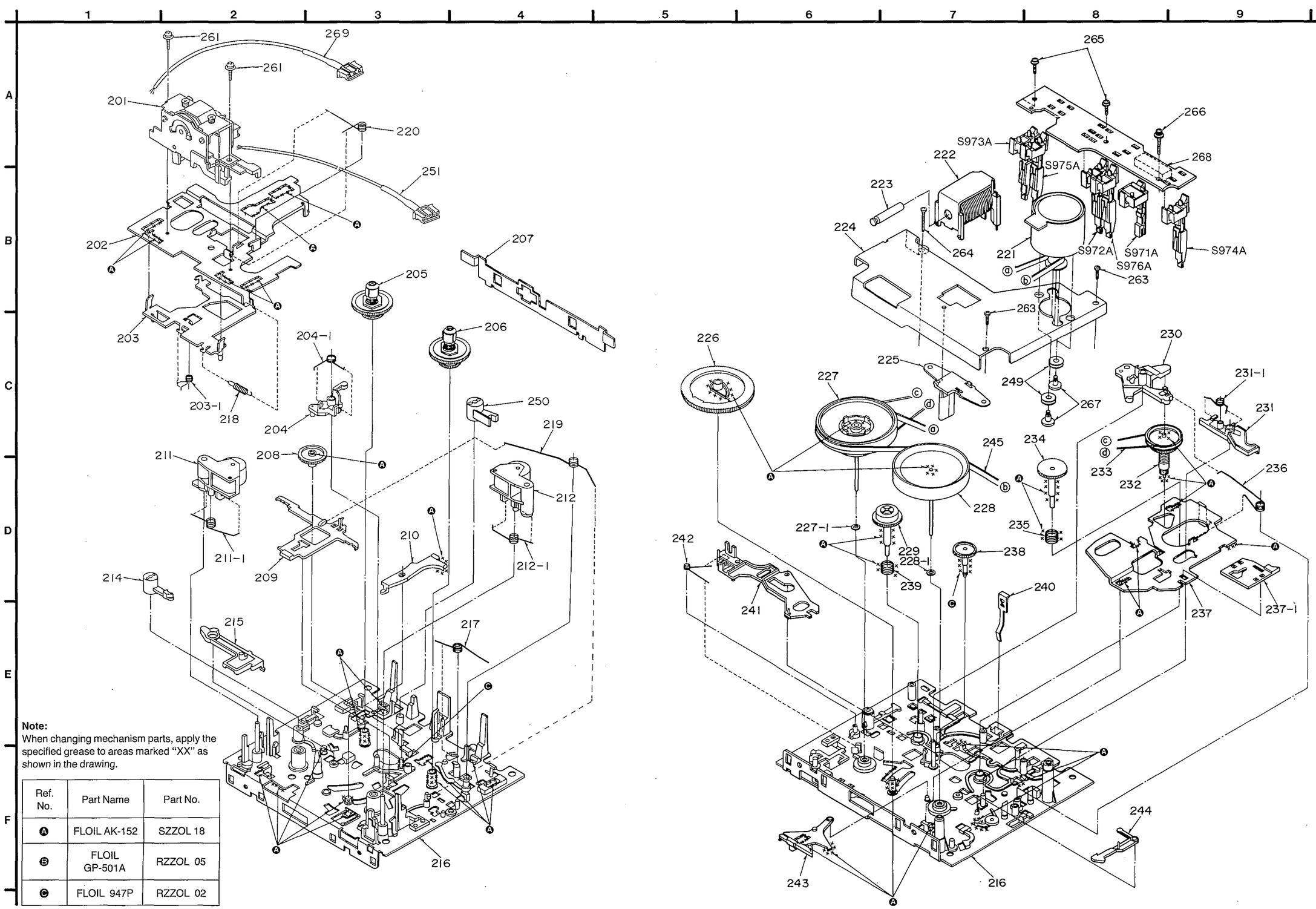


Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

Ref. No.	Part Name	Part No.
Ⓐ	FLOIL AK-152	SZZOL 18
Ⓑ	FLOIL GP-501A	RZZOL 05
Ⓒ	FLOIL 947P	RZZOL 02



■ MECHANISM PARTS LOCATION •DECK 2



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

Ref. No.	Part Name	Part No.
Ⓐ	FLOIL AK-152	SZZOL 18
Ⓑ	FLOIL GP-501A	RZZOL 05
Ⓒ	FLOIL 947P	RZZOL 02

Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST	
(DECK2)			
201	RXQ0161	HEAD BLOCK(REC/PLAYBACK)	
202	RUA793ZF	HEAD BASE	
203	RZLAR300A	ROD	
203-1	RUW143ZA	SPRING	
204	1UB0089ZA	ARM	
204-1	RUW148ZA	SPRING	
205	1DM0018ZB	REEL TABLE(R)	
206	1DM0017ZB	REEL TABLE(F)	
207	RML0069-1	LEVER	
208	RDG5772ZC	GEAR	
209	RUB508ZB	BRAKET ROD	
210	RUB506ZB	LEVER	
211	1UB0088ZB	ARM(R)	
211-1	RUW141ZA	SPRING	
212	1UB0087ZB	ARM(F)	
212-1	RUW140ZC	SPRING	
214	RNL1ZD	DAMPER ARM	
215	RUB503ZD	MAIN LEVER	
216	RFKRRSCH9N	CHASSIS ASS'Y	
217	RUW142ZA	SPRING	
218	RUD105ZA	SPRING	
219	RUW144ZA	SPRING	
220	RUW139ZA	SPRING	
221	RFM133ZA	DC MOTOR	
222	1UE0015ZB	PLUNGER	
223	RUB428ZE	MOVING IRON CORE	
224	RMA0101	ANGLE	
225	RMD5014ZC	ANGLE	
226	RDG5927ZG	MAIN GEAR	
227	1DW0037ZB	FLYWHEEL(F)	
227-1	RNW139ZA	WASHER	
228	1DW0038ZB	FLYWHEEL(R)	
228-1	RNW138ZA	WASHER	
229	1DG0006ZB	REEL TABLE GEAR	
230	RUB513ZD	ARM	
231	1UB0091ZA	LEVER	
231-1	RUW146ZA	SPRING	
232	1DR0011ZB	MAIN PULLEY	
233	RDV90ZB	BELT	
234	RDG5769ZA	REEL TABLE GEAR	
235	RUQ111ZB	SPRING	
236	RUW145ZA	SPRING	
237	1UB0090ZA	ROD	
237-1	RUB512ZB	ROD	
238	RDG5773ZB	GEAR	
239	RUQ112ZA	SPRING	
240	RUS609ZC	TAPE PRESSURE SPRING	
241	RUB514ZC	LEVER	
242	RUW147ZA	SPRING	

Ref. No.	Part No.	Part Name & Description	Remarks
243	RUB515ZA	LEVER	
244	RUB509ZA	LEVER	
245	RDV108ZA	CAPSTAN BELT	
249	RHG3032ZA	RUBBER CUSHION	
250	RNL180ZB	DAMPER ARM	
251	REX0172	LEAD WIRE(5P)	
261	XTW2+6L	SCREW	
263	XTN26+7J	SCREW	
264	RHE5203ZA	SCREW	
265	XTW2+8S	SCREW	
266	XYC2+JF16	SCREW	
267	RHD26002	SCREW	
268	RJS10T7ZA	SOCKET(10P)	
269	REX0145	LEAD WIRE ASS'Y	

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