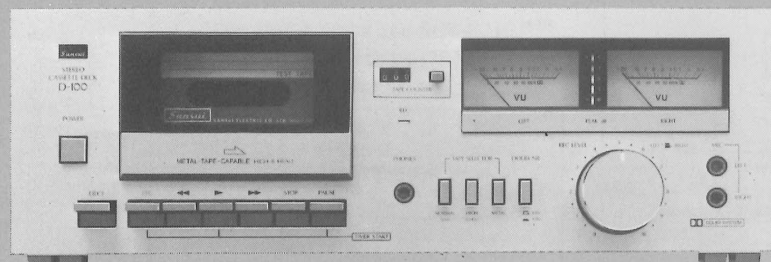


SERVICE MANUAL

STEREO CASSETTE TAPE DECK

SANSUI D-100 (Silver & Black Model)



SPECIFICATIONS

Track	4-Track (2-Channel Stereo)
Wow and flutter	within 0.055 % WRMS
Frequency response (Record/Playback)	
Normal Tape (LH)	20 to 16,000 Hz
Metal Tape (-20 VU)	(20 to 15,000 Hz ± 3 dB)
(0 VU)	20 to 19,000 Hz
	(20 to 17,000 Hz ± 3 dB)
	20 to 13,000 Hz ± 3 dB
Signal to noise ratio (Record/Playback)	
Metal Tape (without Dolby Noise Reduction Effect)	
.....	better than 59 dB (weighted)
(With Dolby Noise Reduction)	better than 69 dB (above 5 kHz)
Input sensitivity and impedance (0 VU, 1,000 Hz)	
MIC	0.3 mV/200 Ω ~ 5 k Ω
LINE IN (REC)	70 mV/47 k Ω
Output level (0 VU, 1,000 Hz)	
LINE OUT (PLAY)	400 mV
PHONES	60 mV/8 Ω
Power voltage	110 ~ 120, 220 ~ 240 V
	(50/60 Hz)
For USA and Canada	120 V (60 Hz)
Power consumption	14 W
Dimensions	430 mm (16-15/16") W
	147 mm (5-13/16") H
	241 mm (9-1/2") D
Weight	4.9 kg (10.8 lbs.) net
	5.6 kg (12.3 lbs.) packed

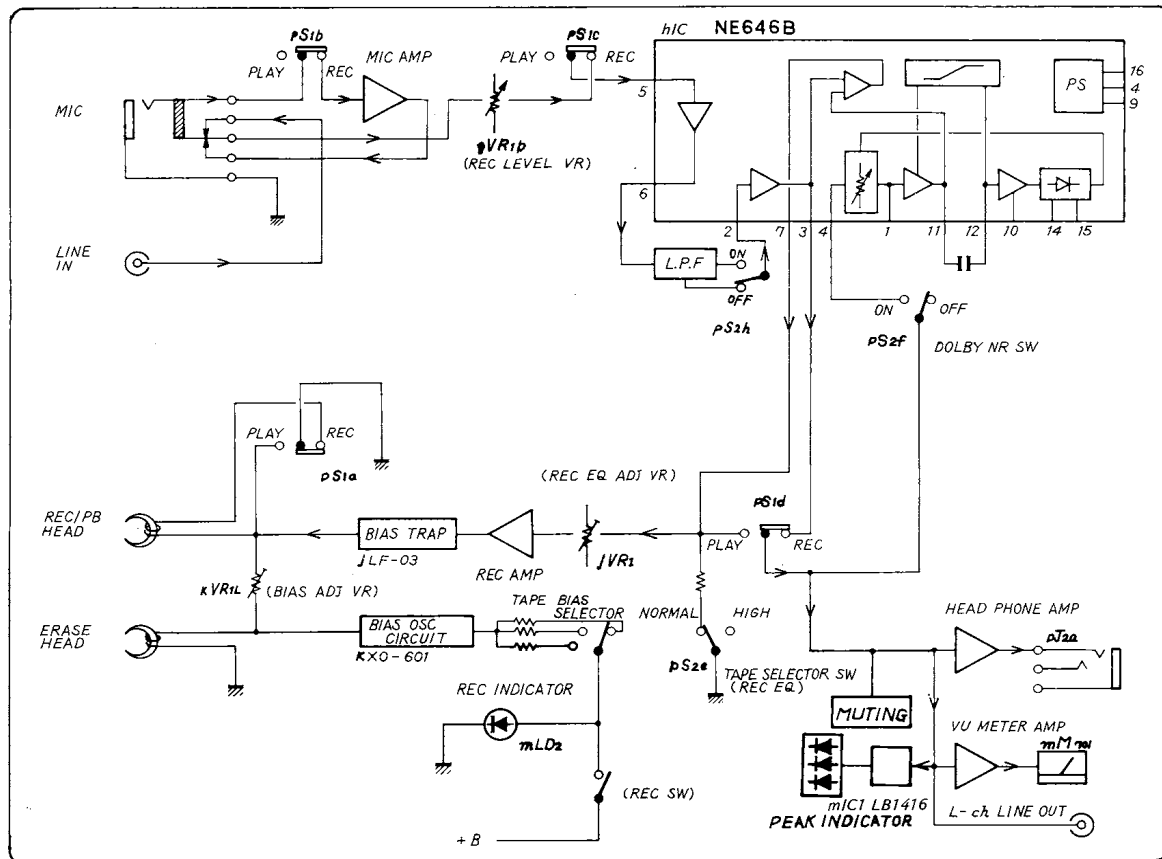
- * Design and specifications subject to change without notice for improvements.
- * In order to simplify the explanation illustrations may sometimes differ from the originals.

Sansui

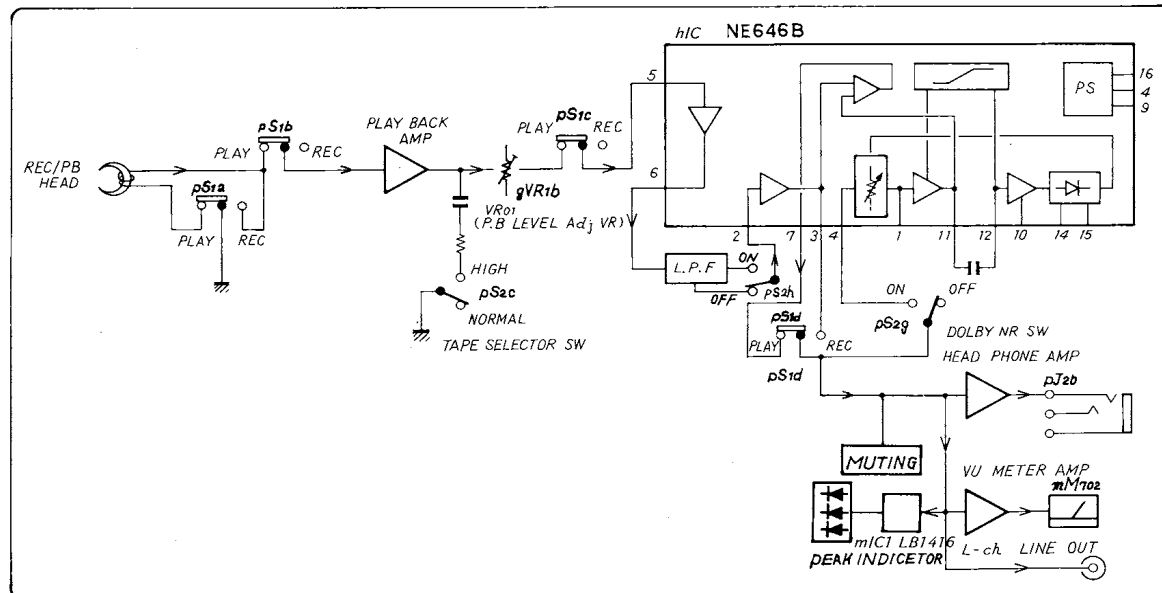
SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM

1-1. Recording Operation Block Diagram



1-2. Playback Operation Block Diagram



2. OPERATION OF MECHANISM & REPLACEMENT OF MAIN PARTS

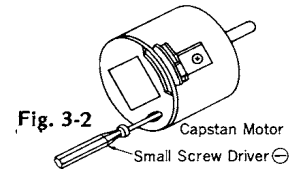
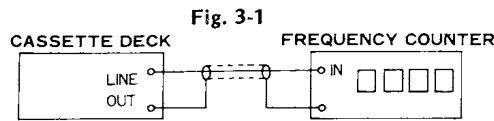
- Since the mechanism employed in D-100 is similar to that of D-90 except recording and erase heads being suitable for metal tape, the

explanation on the mechanism is omitted from this manual, therefore please refer to the pages 5, 6, 11, on service manual of D-90.

3. ADJUSTMENTS

3-1. Tape Speed Adjustment

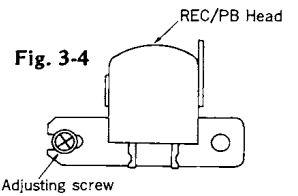
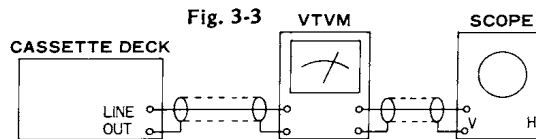
- Note:** 1. Use Sansui Test Tape, SCT-S3K (3 kHz signals are recorded on the tape).
2. Connections are shown in Fig. 3-1.



STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST	ADJUST FOR	REMARKS
1.	TAPE SPEED ADJ.	Test Tape SCT-S3K	LINE OUT	Depress the PLAY button and playback the Test Tape, SCT-S3K	If not, turn semi-variable resistor as Fig. 3-2 until 3000 Hz $\pm$ 45 Hz is obtained.	3000 Hz $\pm$ 45 Hz	Use small screw driver.

3-2. Playback Adjustment

- Note:** 1. Before this adjustment, clean REC/P.B head surface.
2. For this adjustment, use Sansui Test Tape, SCT-F10KN, SCT-L400N and SCT-F1K.
3. Set the Dolby NR switch to be OFF.
4. Connections are shown in Fig. 3-3.

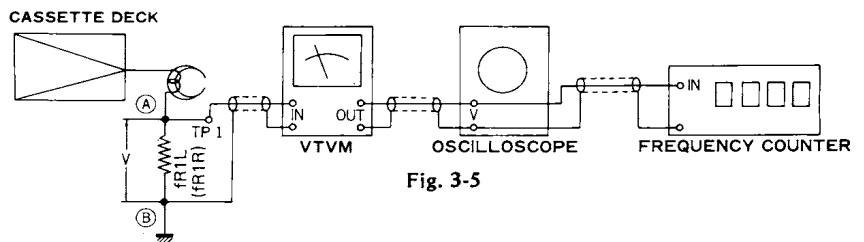


STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST FOR	REMARKS
1.	REC/PB Head Adj.	SCT-F10KN	LINE OUT VTVM Scope	Depress the PLAY button and playback the test Tape, SCT-F10KN	Adjust the azimuth adjusting screw in Fig. 3-4 for the maximum reading on the VTVM on both channels.	After this adjustment, lock the screw with paint.
2.	Playback Level Adj.	SCT-L400N	Same as above	Set EQ SELECTOR to NORMAL (LH) position Depress the PLAY button and playback the Test Tape, SCT-L400N	Adjust fVR1 (PB, L-CH) and fVR1 (PB, R-CH) for the reading of 500 mV on VTVM. See Top View on page 7.	Set same level (500 mV) $\pm$ 2 dB on both channels.
3.	High frequency Equalization Check	SCT-F1K and SCT-F10KN	Same as above	Set EQ SELECTOR to NORMAL (LH) position Depress the PLAY button and playback the Test Tape, SCT-F1K and SCT-F10KN	Confirm that the difference of output levels between SCT-F1K and SCT-F10KN is within $\pm$ 3 dB.	In playback of SCT-10KN, set the EQ SELECTOR to HIGH (CrO ₂) position, then confirm the indication on VTVM drops approximately 3 dB ~ 4 dB.

3-3. Recording Adjustment

1) Bias Adjustment

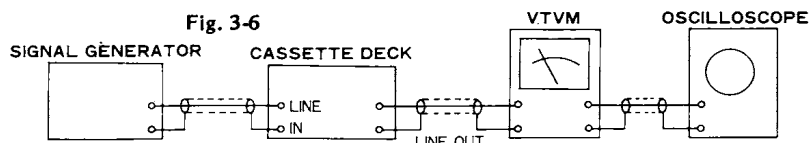
- Note:** 1. For this adjustment, use Sansui Test Tape, SCT-SA.
2. Set the Dolby NR Switch to be OFF.
3. Connections are shown in Fig. 3-5.



STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST	REMARKS
1.	Recording bias Adj.	SCT-SA	Voltage value between A and B of fR1L & fR1R (See Top View on page 7)	Depress REC Play and PAUSE buttons. Set BIAS SELECTOR to HIGH (CrO ₂) position.	Adjust kVR1L for L-CH and kVR1R for R-CH for the reading of 3.7 mV between A and B in Fig. 3-5 on both channel.	kVR1L, kVR1R See Top View on page 7.
				Set BIAS SELECTOR to NORMAL (LH) position.	Confirm the indication on VTVM shows 2.7 mV	
				Set BIAS SELECTOR to Metal position.	Confirm the indication on VTVM shows 6.2 mV	
2.	Bias frequency Check	Same as above	Same as above	Set BIAS SELECTOR to NORMAL position.	Confirm that frequency counter shows 85 kHz $\pm$ 10 kHz.	

2) Rec Level & Frequency Response Adjustment

- Note: 1. Rec Level Volume Max.
 2. Connections are shown in Fig. 3-6.
 3. Set the Dolby NR switch to be ON.



STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST FOR	REMARKS
1.	REC Level Adj.	Use recording HIGH (CrO ₂) tape SCT-SA Feed 1 kHz, 70 mV (0 dB) from S.G into LINE IN.	LINE OUT VTVM Scope	Set BIAS & EQ SELECTOR to HIGH (CrO ₂) position. 1. Depress PAUSE, PLAY and REC button. 2. Adjust the Rec Level Volume for obtaining 300 mV on VTVM. 3. Push off the PAUSE button, then record the 1 kHz signal. 4. Play back the 1 kHz signal. 5. Confirm that the output levels on both channels are 300 mV $\pm$ 2 dB on VTVM.	1. If not, turn jVR1 (REC, L-CH) and jVR1 (REC, R-CH) until output level 300 mV $\pm$ 2 dB on both channel are obtained. 2. Repeat this REC Level adj. until the indication on VTVM will be 300 mV $\pm$ 2 dB.	jVR1 (REC, L-CH), jVR1 (REC, R-CH) (See Top View on page 7)
2.	Frequency Response Adj.	Feed 1 kHz 7 mV (-20 dB) and 10 kHz; 7 mV (-20 dB) from S.G. into LINE IN.	LINE OUT	Set BIAS & EQ SELECTOR to HIGH (CrO ₂) position. 1. Record the 1 kHz and 10 kHz signals from S.G. 2. Play back the 1 kHz and 10 kHz signals, then confirm that the difference of output levels between 1 kHz and 10 kHz are within 0 dB.	1. If not, adjust kVR1L for L-CH and kVR1R for R-CH slightly until difference of output levels between 1 kHz and 10 kHz recorded are within 0 dB.	As kVR1L and kVR1R are previously adjusted in step of Bias Adjustment, turn them slightly, if necessary.

3-4. Filter Adjustment

- Note: 1. Rec Level Volume Max.
 2. Set the Dolby NR switch to be ON.

STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST FOR	REMARKS
1.	Filter 19 kHz 85 kHz Adj.	Feed 19 kHz 110 mV and 85 kHz 110 mV from S.G. into LINE IN.	LINE OUT VTVM	Depress PAUSE PLAY and REC button.	Make the output minimum to adjust white core; (19 kHz) and black core (85 kHz) of hLF1 (L-CH) and hLF1 (R-CH)	hLF1 (L-CH), hLF1 (R-CH) (See Top View on page 7)

◇ Tape Selector Position

Tape Selector		REC	PLAY
Tape		Bias/Equalizer	Equalizer
FUJI	Super Range	metal	metal
MAXELL	MX		
TDK	MA-R		
SCOTCH	Metafine		
SONY	METALLIC	high(CrO ₂)	high(CrO ₂)
FUJI	Range 4X		
MAXELL	XL II		
TDK	SA		
SCOTCH	MASTER 70		
SONY	JHF		
BASF	SCR		

Tape Selector		REC	PLAY
Tape		Bias/Equalizer	Equalizer
SONY	Duad	normal(LH)	high(CrO ₂)
BASF	FCR		
FUJI	Range-2	normal(LH)	normal(LH)
	Range-4		
	Range-6		
MAXELL	UL		
	UD		
	XL I		
TDK	D		
	AD		
	OD		

Tape Selector		REC	PLAY
Tape		Bias/Equalizer	Equalizer
SCOTCH	TARTAN	normal(LH)	normal(LH)
	CRYSTAL		
	MASTER 120		
SONY	AHF		
	BHF		
	CHF		
	Low-Noise		
BASF	LN		
	Super LH I		

◇ List of Sansui Test Tape

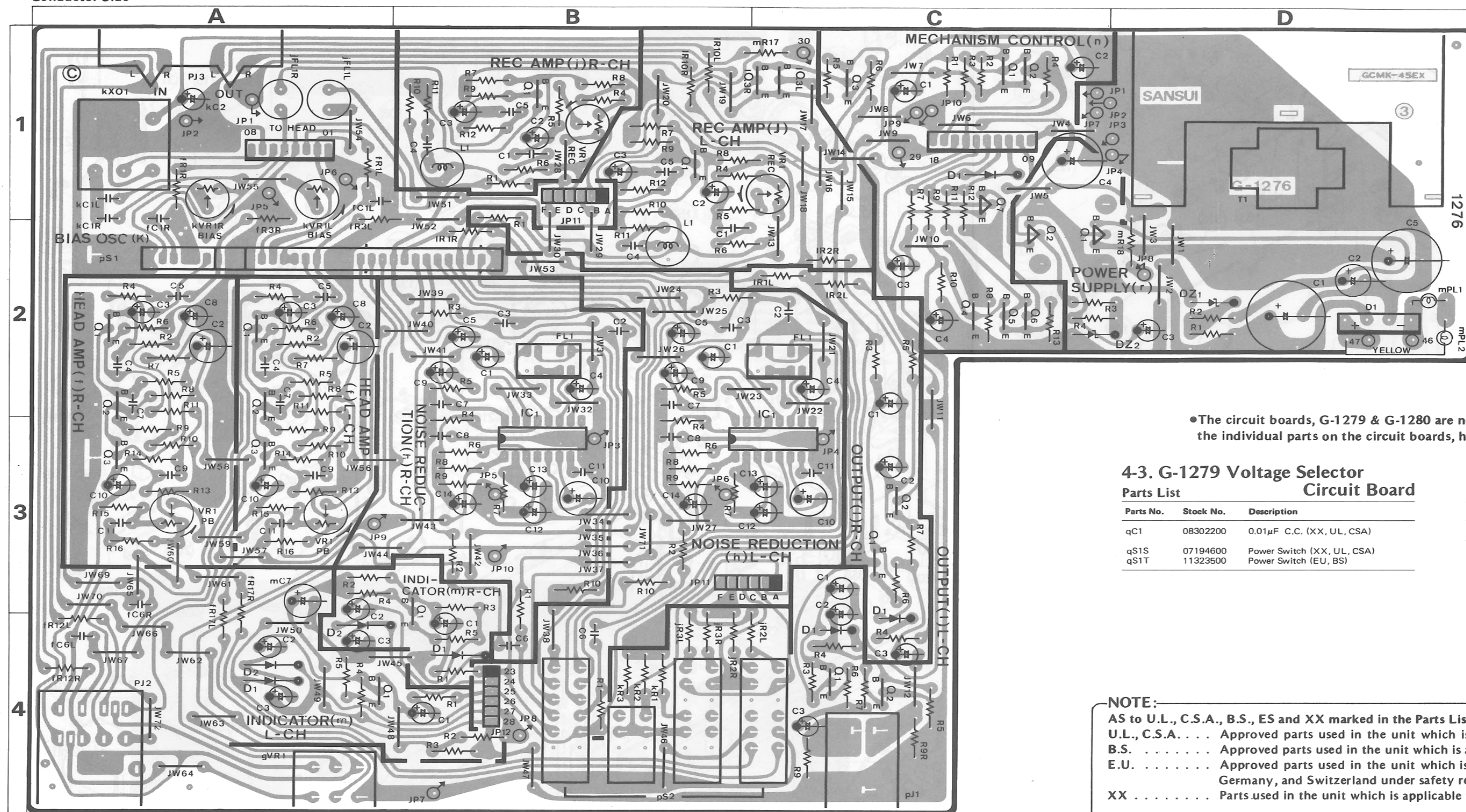
Name of test tape	Recorded Frequency	Description
SCT-S3K	3KHz	Speed check, Wow & Flutter check
SCT-L400N	400Hz	Playback level and VU meter level adjustment
SCT-F1K	1KHz	High frequency equalization check
SCT-F10KN	10KHz	REC/PB head adjustment

Name of test tape	Recorded Frequency	Description
SCT-SA(HIGH(CrO ₂))		Recording Bias Adjustment
SCT-LH(NORMAL(LH))		REC/PB Level Adjustment
SCT-CS(Fe-Cr)		Frequency response check
SCT-F40	40Hz	Playback Frequency response check

4. PARTS LOCATION & PARTS LIST

4-1. G-1276 Main Circuit Board (Stock No. 07075201)

Conductor Side



Parts List

Parts No.	Stock No.	Description
•Transistor		
IQ1	03068301	2SC2320 E
Q1	03083901	2SD313AL D
mQ1	03068301	2SC2320 E
nQ	03068301	2SC2320 E
fQ1	03060701	2SC1313 G
QJ1	03068301	2SC2320 E
fQ2	03060701	2SC1313 G
nQ2	03068301	2SC2320 E
Q2	03083901	2SD313AL D
IQ2	03012700	2SA999 E
nQ3	03012700	2SA999 E
IQ3	03068301	2SC2320 E
fQ3	03060701	2SC1313 G
nQ4	03068301	2SC2320 E
nQ5	03068301	2SC2320 E
nQ6	03068301	2SC2320 E
nQ7	03083901	2SD313AL D

Parts No.	Stock No.	Description
•IC		
hIC1	03613600	NE646B
•Diode		
rD1	03117000	RB-152
ID1	03401500	MV-12
mD1	03117800	1N60
nD1	03117700	10E-2
mD2	03117800	1N60
•Zener Diode		
rDZ1	03163200	RD-13EC
rDZ2	03163300	RD-15EB
fc3	08301100	10μF 35V E.L.
nc3	08417100	0.1μF 100V E.C.
hc12	08417100	0.1μF 100V E.C.
hc13	08417400	0.33μF 100V E.C.

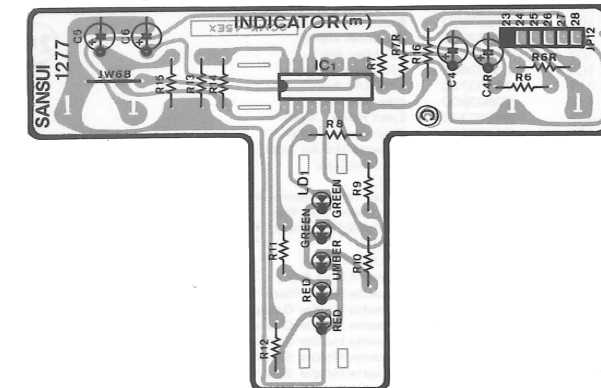
Parts No.	Stock No.	Description
mPL1	04007500	Pilot Lamp 8V 300 mA
kXO1	07189700	OSC Brock (BQ-3HA)
hFL1	09106300	BL-30HA
jFL1	42904400	Trap Coil
jL1	49005500	3.9mH Inductor (392J)
gVR1	10250400	50kΩ (A) x 2 REC Level Adj.
jVR1	10351300	10kΩ (B) REC Level Adj.
kVR1	10351900	100kΩ (B) bias Adj.
fVR1	10351700	47kΩ (B) P.B. Level Adj.
pS1	11104000	PLAY/REC Slide Switch
pS2	07191300, 1	TAPE SELECTOR Switch (BIAS/E.O. DOLBY NR)
pJ1	24305900	Head Phone Jack
pJ2	24305300	Mic Jack
pJ3	22007100	LINE IN/LINE OUT Terminal

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

Since numbering method of parts number on the schematic diagram, circuit board, and parts list has been changed, please pay attention so as to fill out correct parts and stock number when ordering parts. For the detail, please refer to the service bulletin AN-103.

4-2. G-1277 Peak Level Indicator Circuit Board (Stock No. 07075301)

Conductor Side



Parts List

Parts No.	Stock No.	Description
•IC		
mIC	03611600	LB1416
mLD1	07192200	5P L.E.D. Ass'y
	07541800	5P L.E.D. Holder

•The circuit boards, G-1279 & G-1280 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

4-3. G-1279 Voltage Selector Circuit Board

Parts No.	Stock No.	Description
qC1	08302200	0.01μF C.C. (XX, UL, CSA)
qS1S	07194600	Power Switch (XX, UL, CSA)
qS1T	11323500	Power Switch (EU, BS)

4-4. G-1280 REC L.E.D. Circuit Board

Parts No.	Stock No.	Description
mLD2	03193700	1P L.E.D.

NOTE:

AS to U.L., C.S.A., B.S., ES and XX marked in the Parts Lists, note the followings:
 U.L., C.S.A. Approved parts used in the unit which is applicable to the U.S. and Canada under safety standard.
 B.S. Approved parts used in the unit which is applicable to British under safety requirement.
 E.U. Approved parts used in the unit which is applicable to Sweden, Denmark, Norway, Finland, West Germany, and Switzerland under safety requirement.
 XX Parts used in the unit which is applicable to other countries excepting mentioned above.

* Parts unspecified such as CSA, UL, EU & XX in "Description" are common parts.

•Abbreviations

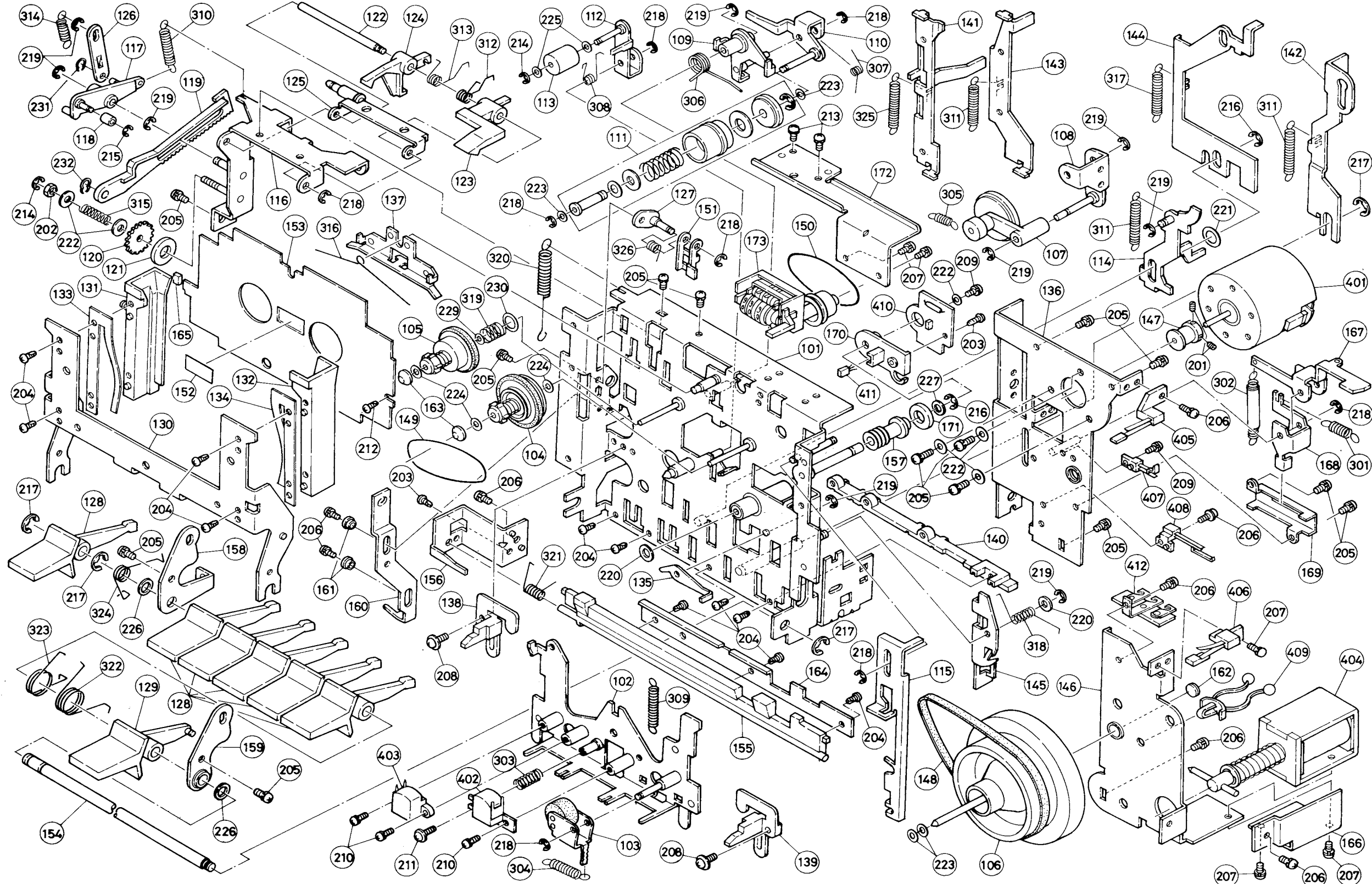
C.R. Carbon Resistor
 S.R. Solid Resistor
 Ce.R. Cement Resistor
 M.R. Metal Film Resistor
 F.R. Fusing Resistor
 N.I.R. Non-Inflammable Resistor
 C.C. Ceramic Capacitor
 C.T. Ceramic Capacitor, Temperature Compensation
 E.C. Electrolytic Capacitor

E.L. Low Leak Electrolytic Capacitor
 E.B. Bi-Polar Electrolytic Capacitor
 E.BL. Low Leak Bi-Polar Electrolytic Capacitor
 Ta.C. Tantalum Capacitor
 F.C. Film Capacitor
 M.P. Metalized Paper Capacitor
 P.C. Polystyrene Capacitor
 G.C. Gimmic Capacitor

5. EXPLODED VIEW AND PARTS LIST

Parts List

Parts No.	Stock No.	Description
103	70603400	Pinch Roller Arm Ass'y
104	71501400	Reel Hub (A) Ass'y
105	07507000	Reel Hub (B) Ass'y
106	70402300	Flywheel Ass'y
107	70603500	FR Lever Ass'y
109	70603600	Idler (A) Ass'y
111	70603700	Idler (B) Ass'y
113	70603800	Eject Hook Lever
117	07507100	Eject Hook Roller
118	07507200	Cassette Holder Lock Arm
119	07507300	Friction Gear
121	07507500	Felt
123	07507600	Upper Nail, cassette holder
124	65011000	Rec Prevention Nail
128	07507700	Eject/REC/Rewind/Play/FF/Stop Button
129	07507800	PAUSE Button
130	07527600	Cassette Well Ass'y
131	07507900	Cassette Guide Plate
132	07508000	Cassette Holder Guide (L)
133	07508100	Cassette Holder Guide (R)
134	07508200	Cassette Holder Spring (L)
135	07508300	Cassette Holder Spring (R)
136	07508400	Cassette Holder Base (L)
137	07508500	Cassette Holder Base (R)
138	07508600	Capstan Belt
139	07508700	Counter Belt (A)
140	07508800	Counter Belt (B)
141	07508900	Fluorescent tape
142	07509000	Mechanism Masking Plate
143	07509100	Counter Idler Ass'y
144	07509200	Eject Lever Plate
145	07509300	Flywheel Thrust Screw
146	07509400	Cap
147	07509500	Holl IC Mounting Holder
148	07509600	Counter
149	07509700	Hex Socket Setscrew M2 x 3
150	07509800	Hexagon Nuts M2.6
151	07509900	Pan Head Tapping Screw M2.6 x 8
152	07510000	Pan Head Tapping Screw M2 x 6
153	07510100	Pan Head SEMS (A type) M2.6 x 4
154	07510200	Pan Head SEMS (A type) M2.6 x 6
155	07510300	Pan Head SEMS (A type) M3 x 6
156	07510400	Pan Head SEMS (A type) M2 x 5
157	07510500	Pan Head SEMS (A type) M2 x 6
158	07510600	Pan Head SEMS (A type) M2 x 5
159	07510700	Pan Head SEMS (A type) M2 x 6
160	07510800	Serrated Washer Head Screw (+, -) M2 x 5
161	07510900	Pan Head Screw M2.6 x 5
162	07511000	Binding Head Taptite Screw M3 x 6
163	07511100	E Ring M1.5 x 0.4
164	07511200	E Ring M1.2 x 0.3
165	07511300	E Ring M3 x 0.6
166	07511400	E Ring M4 x 0.6
167	07511500	E Ring M2 x 0.4
168	07511600	E Ring M2.5 x 0.4
169	07511700	Plane Washer M3
170	07511800	Plane Washer M5.1 x 0.2
171	07511900	Plane Washer M2.6 x 0.5
172	07512000	Thrust Washer M2.5 x 0.25
173	07512100	Thrust Washer M1.6 x 0.25
174	07512200	Thrust Washer M2.1 x 0.13
175	07512300	Thrust Washer M5.7 x 0.25
176	07512400	Thrust Washer M4.1 x 0.15
177	07512500	Nylon Washer M2.4 x 0.5
178	07512600	Lumiller Washer M6.2 x 0.15
179	07512700	Lumiller Washer M6.8 x 0.15
180	07512800	G Ring M2.5
181	07512900	G Ring M3
182	07513000	Over Stroke
183	07513100	Over Stroke Lever Spring (C)
184	07513200	Head Adjust
185	07513300	Pinch Roller
186	07513400	TU Lever Ass'y
187	07513500	FR Lever Ass'y
188	07513600	Idler Lever
189	07513700	Idler (B) Lever
190	07513800	Play Plunger Rest
191	07513900	Eject Hook
192	07514000	Head Base
193	07514100	Cassette Holder
194	07514200	Rec Prevention Nail
195	07514300	Eject Hook Plate
196	07514400	Friction Gear Spring (B)
197	07514500	Brake Lever
198	07514600	Brake Lever Plate
199	07514700	Pause Lock Plate
200	07514800	Reel Hub (B) (Back Tension)
201	07514900	Cassette Holder
202	07515000	Push Button Lock Plate Spring (B)
203	07515100	Pause Button
204	07515200	Stop Button
205	07515300	Eject Button
206	07515400	Rec Lever Plate
207	07515500	Rec Stopper Lever
208	07515600	Motor
209	07515700	Rec/P.B Head
210	07515800	Erase Head
211	07515900	Plunger Solenoid
212	07516000	Leaf Switch
213	07516100	Leaf Switch
214	07516200	Leaf Switch
215	07516300	Leaf Switch
216	07516400	Leaf Switch
217	07516500	Holl IC DN-6838 (Read Switch)

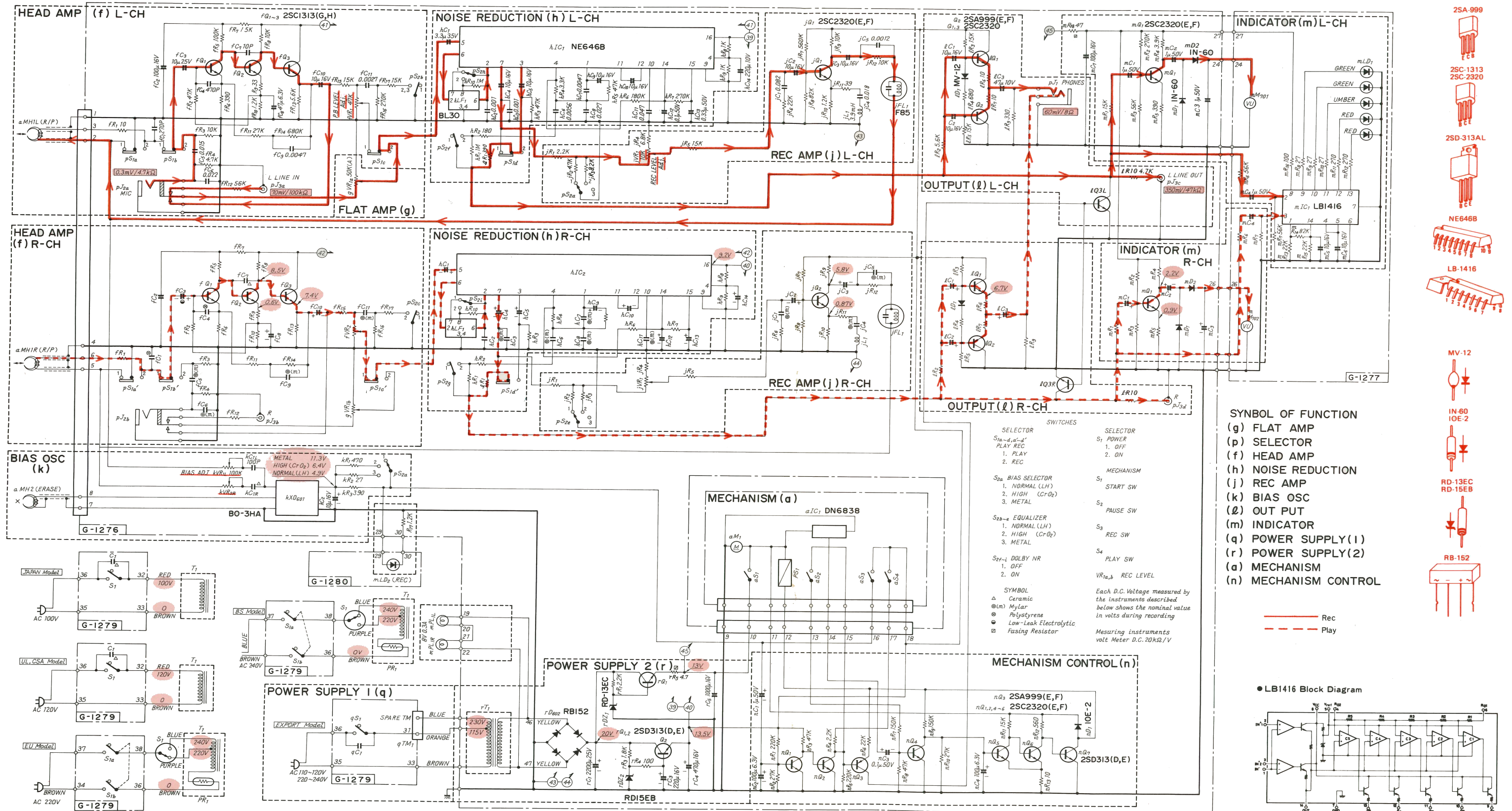


*Though every part included in mechanism ass'y is numbered in exploded view, part unlisted in the parts list are not supplied.

Abbreviations

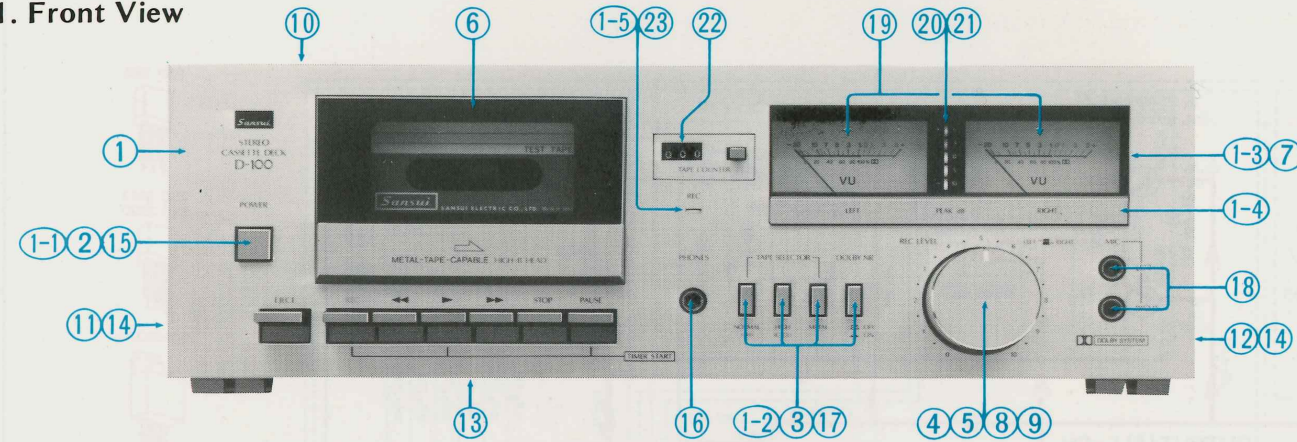
1. Pan Head Tapping Screw PT Type	3. Pan Head Screw P Type	5. Pan Head SEMS B Screw PSB Type	7. Binding Head Screw B Type	9. Flat Countersunk Wood Screw FC Type	11. Hex. Socket Setscrew SC Type	13. Spring Washer S Type	15. Retaining Ring (E Washer) E Type
2. Washer Head Tapping Screw WT Type	4. Pan Head SEMS A Screw PSA Type	6. Binding Head SEMS F Screw BSF Type	8. Flat Countersunk Head Screw F Type	10. Round Head Wood Screw RH Type	12. Slot Type Setscrew SS Type	14. Plain Washer P Type	

6. SCHEMATIC DIAGRAM



7. OTHER PARTS

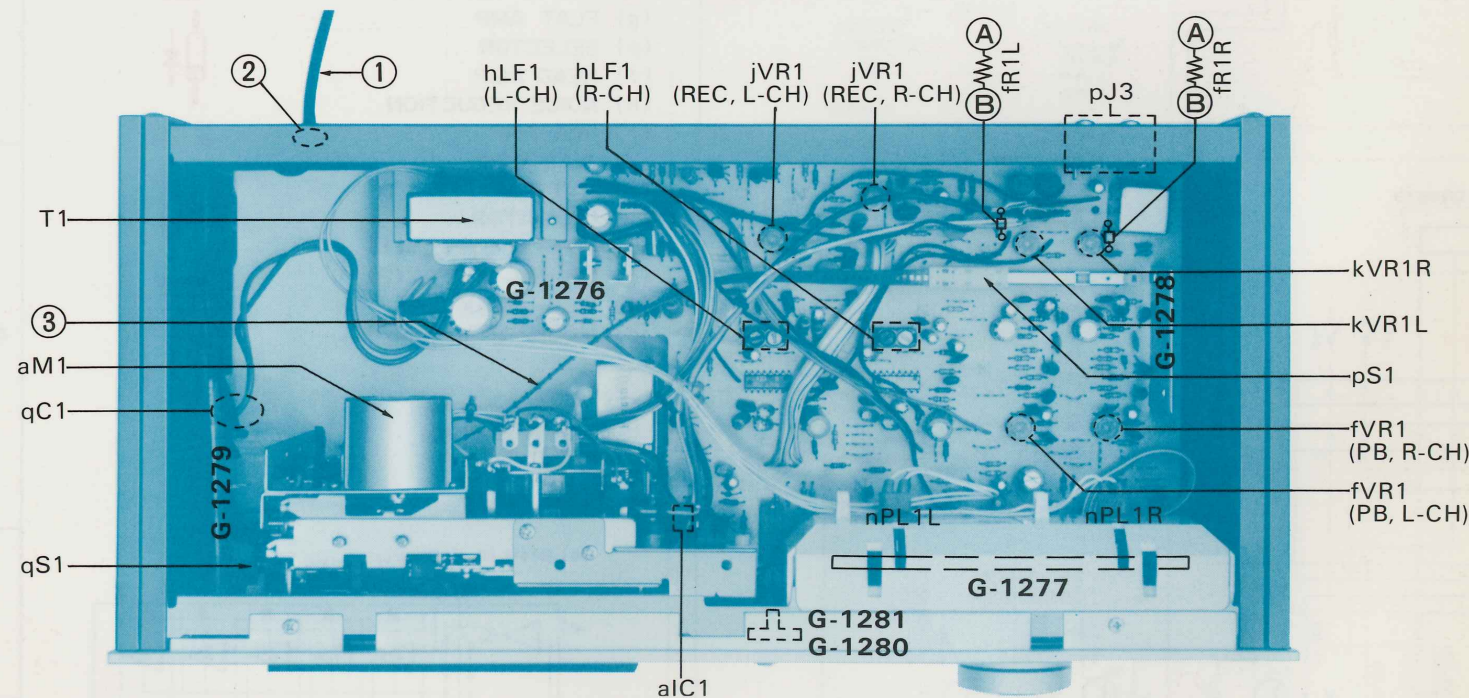
7-1. Front View



Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
•Silver Model Only			1-1	59560900	Knob Guide, power switch knob	10	57272600	Bonnet
1	07542700	Front Panel Ass'y	1-2	53967710	Knob Guide, tape selector switch knob	11	54578000	Side Panel (Left)
1-1	59560800	Knob Guide, power switch knob	1-3	54401400	Front Glass	12	54578110	Side Panel (Right)
1-2	53967810	Knob Guide, tape selector/dolby NR switch knob	1-4	07541700	Meter Panel Plate	13	50664310	Bottom Plate
1-3	54401400	Front Glass	1-5	07541500	1P Indicator Plate	14	55074510	Rubber Patch
1-4	07541400	Meter Panel Plate	2	53196500	Knob, power switch	15	07194600	Power Switch (XX, UL, CSA)
1-5	07541500	1P Indicator Plate	3	53194810	Knob, tape selector switch	15	11323500	Power Switch (EU, BS)
2	53195000	Knob, power switch	4	53106800	Knob, REC level knob (Left)	16	24305900	Head Phone Jack
3	53194910	Knob, tape selector/dolby NR switch	5	53106900	Knob, REC level knob (Right)	17	07191300, 1	Tape Selector/Dolby NR Switch
4	53107000	Knob, REC level knob (Left)	6	07548100	Cassette Lid Ass'y	18	24305300	Mic Jack Ass'y
5	53107100	Knob, REC level knob (Right)	•Silver & Black Model			19	07191900	VU Meter
6	07548000	Cassette Lid Ass'y	7	07541900	Meter Frame	20	07192200	5P Indicator L.E.D.
•Black Model Only			8	50485300	Masking Sheet	21	07541800	5P L.E.D. Holder
1	07542800	Front Panel Ass'y	9	10250400	REC Level Volume 50k Ω (A) x 2	22	07509300	Tape Counter Ass'y
						23	03193700	1P Indicator L.E.D., REC

7-2. Top View

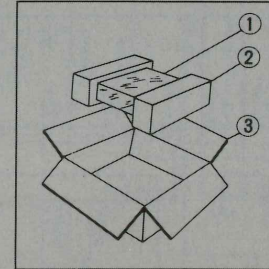


Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	38004300	Power Cord (BS)	T1	07192101	Power Transformer (XX)	aIC1	03614000	Hall IC, DN-6838 (Read Switch)
	38004500	Power Cord (EU)		07192102	Power Transformer (UL, CSA)	nPL1L, 1R	04007500	Pilot Lamp, 8V 300 mA
	38005400	Power Cord (XX)		07192105	Power Transformer (EU, BS)	pS1	11104000	Play/Rec Slide Switch
	38004700	Power Cord (UL, CSA)	aM1	43207500	Motor	pJ3	22007100	LINE IN/LINE OUT Terminal
2	39104900	Strain Relief 4 ϕ (EU, BS)	qC1	08302200	0.01 μ F C.C. (XX, UL, CSA)			
	39106000	Strain Relief 3 ϕ (XX, UL)	qS1	07194600	Power Switch (XX, CSA, UL)			
3	60560600	Flexible Wire Ass'y		11323500	Power Switch (EU, BS)			

8. PACKING LIST

Parts No.	Stock No.	Description
1	91263810	Vinyl Cover
2	90284000	Styrofoam Packing
3	07544810	Carton Case (Silver Model Only)
	07545010	Carton Case (Black Model Only)



9. ACCESSORY PARTS LIST

Stock No.	Description
07544200	Operating Instructions
38103301}	PJP Cord x 2
07193400}	
94300500	Head Cleaner (Cotton Buds)

Sansui

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