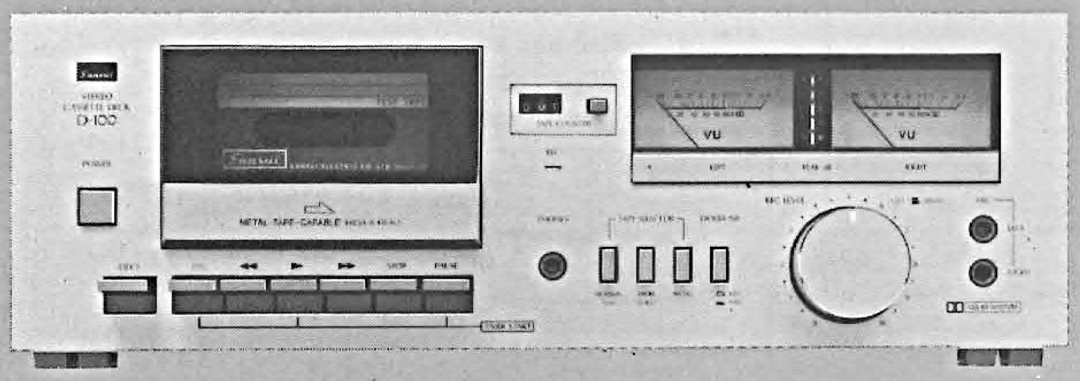
SERVICE MANUAL

STEREO CASSETTE TAPE DECK

SANSUI D-100 (Silver & Black Model)



Sansui

SANSUI ELECTRIC CO., LTD.

D-100

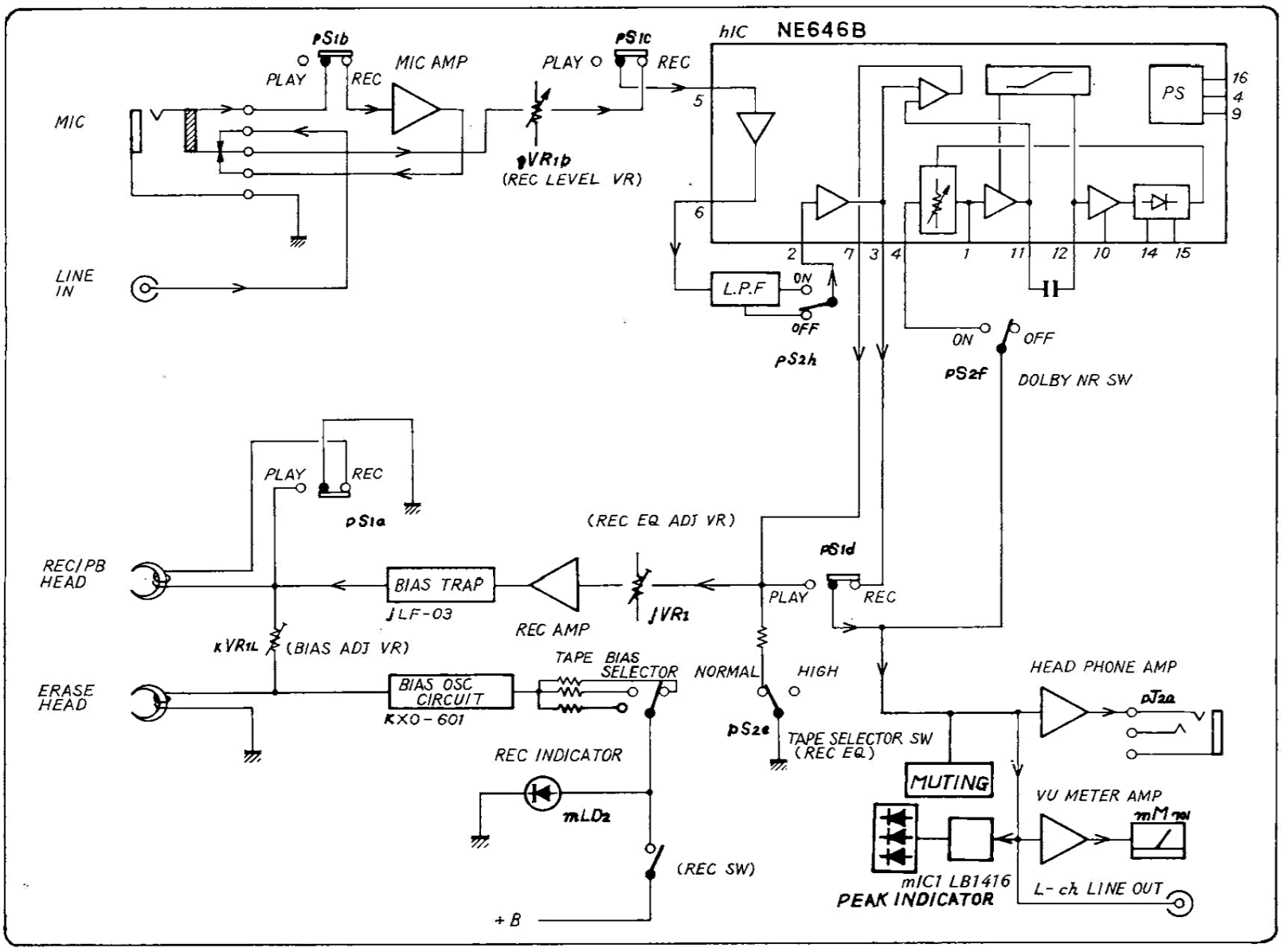
SPECIFICATIONS

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 (20 to 15,000 Hz ±3 dB)
Metal Tape (–20 VU)	20 to 19,000 Hz (20 to 17,000 Hz ±3 dB)
(0 VU)	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/200Ω ~ 5 kΩ
LINE IN (REC)	70 mV/47 kΩ
Output level (0 VU, 1,000 Hz)	
LINE OUT (PLAY)	400 mV
PHONES	60 mV/8Ω
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

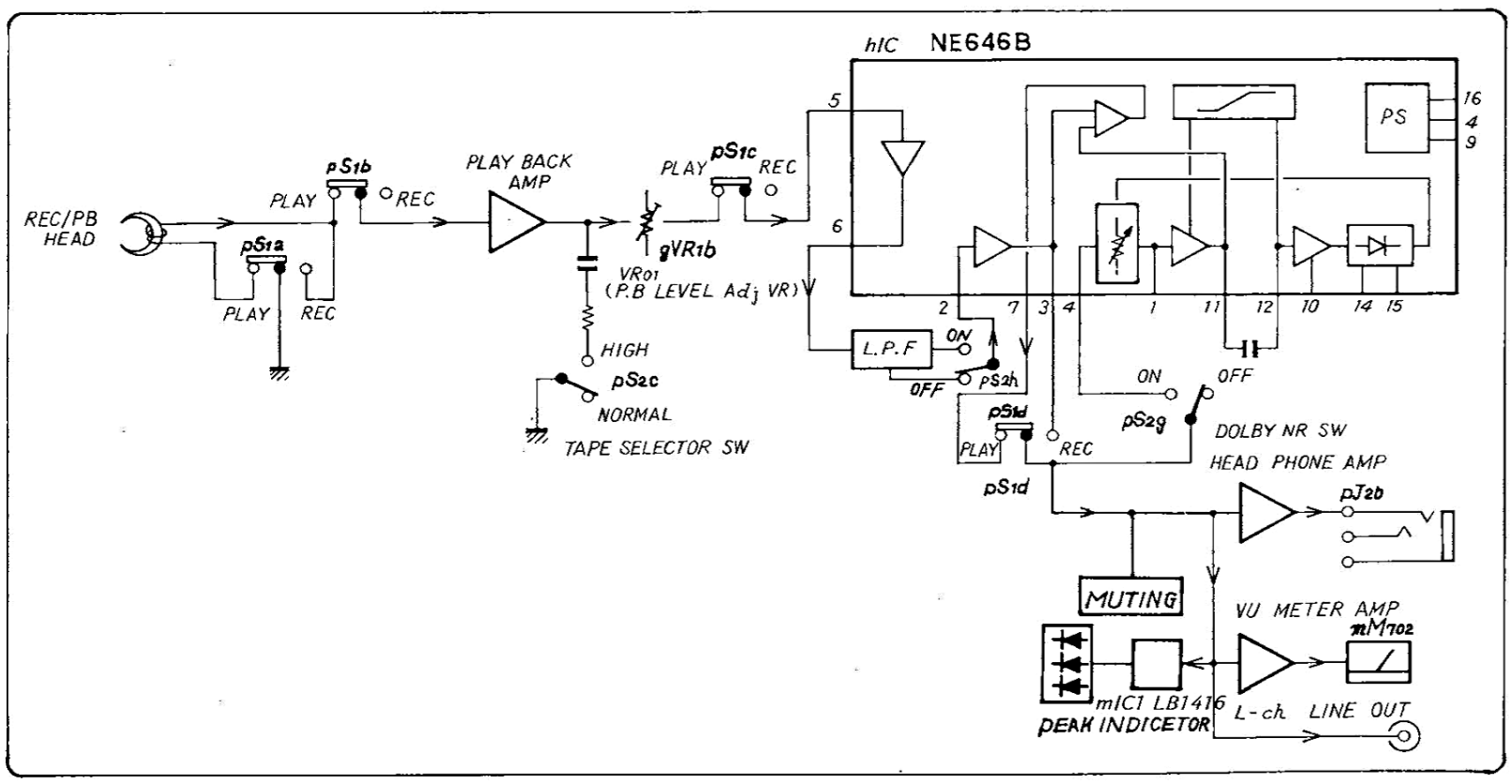
* **Design and specifications subject to change without notice for improvements.**
* **In order to simplify the explanation illustrations may sometimes differ from the originals.**

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.

Fig. 3-1

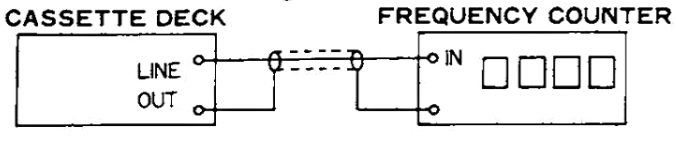
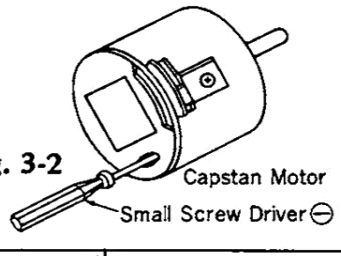


Fig. 3-2



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 ±45 Hz is obtained.	3000 Hz ±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.

Fig. 3-3

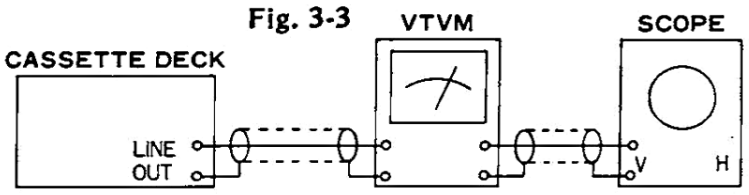
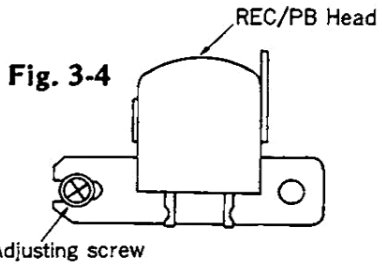


Fig. 3-4



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) ±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 and SCT-F10KN is within ±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.

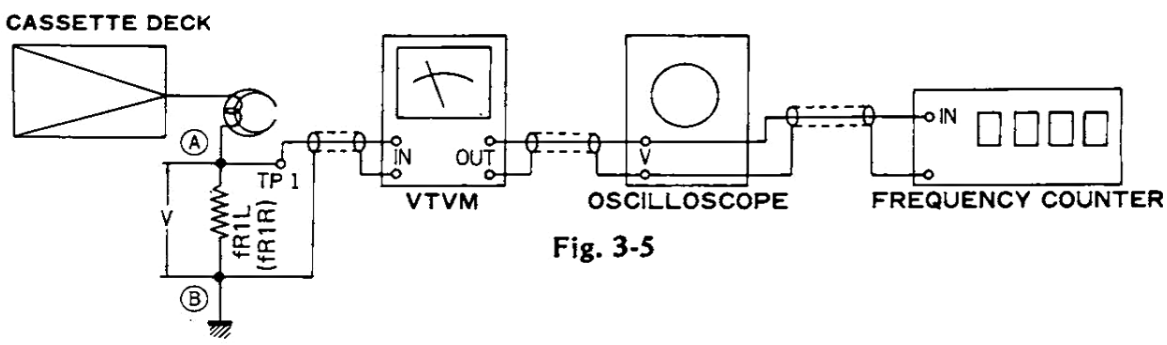


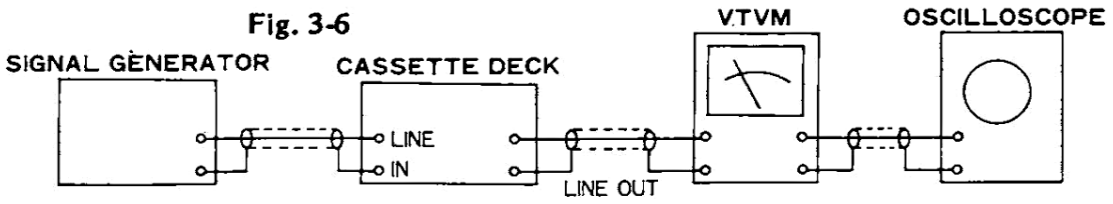
Fig. 3-5

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 ±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.

Fig. 3-6



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 ±2 dB on VTVM.	1. If not, turn jVR1 (REC, L-CH) and jVR1 (REC, R-CH) until output level 300 mV ±2 dB on both channel are obtained. 2. Repeat this REC Level adj. until the indication on VTVM will be 300 mV ±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; 7mV (−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 / Tape		REC Bias/Equalizer	PLAY Equalizer
FUJI	Super Range	metal	metal
MAXELL	MX		
TDK	MA-R		
SCOTCH	Metafine		
SONY	METALLIC		
FUJI	Range 4X	high(CrO_2)	high(CrO_2)
MAXELL	XL II		
TDK	SA		
SCOTCH	MASTER 70		
SONY	JHF		
BASF	SCR		

Tape Selector / Tape		REC Bias/Equalizer	PLAY 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 / Tape		REC Bias/Equalizer	PLAY 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 REC/PB Level Adjustment Frequency response check
SCT-LH<NORMAL(LH)>		
SCT-CS(Fe-Cr)		
SCT-F40	40Hz	Playback Frequency response check

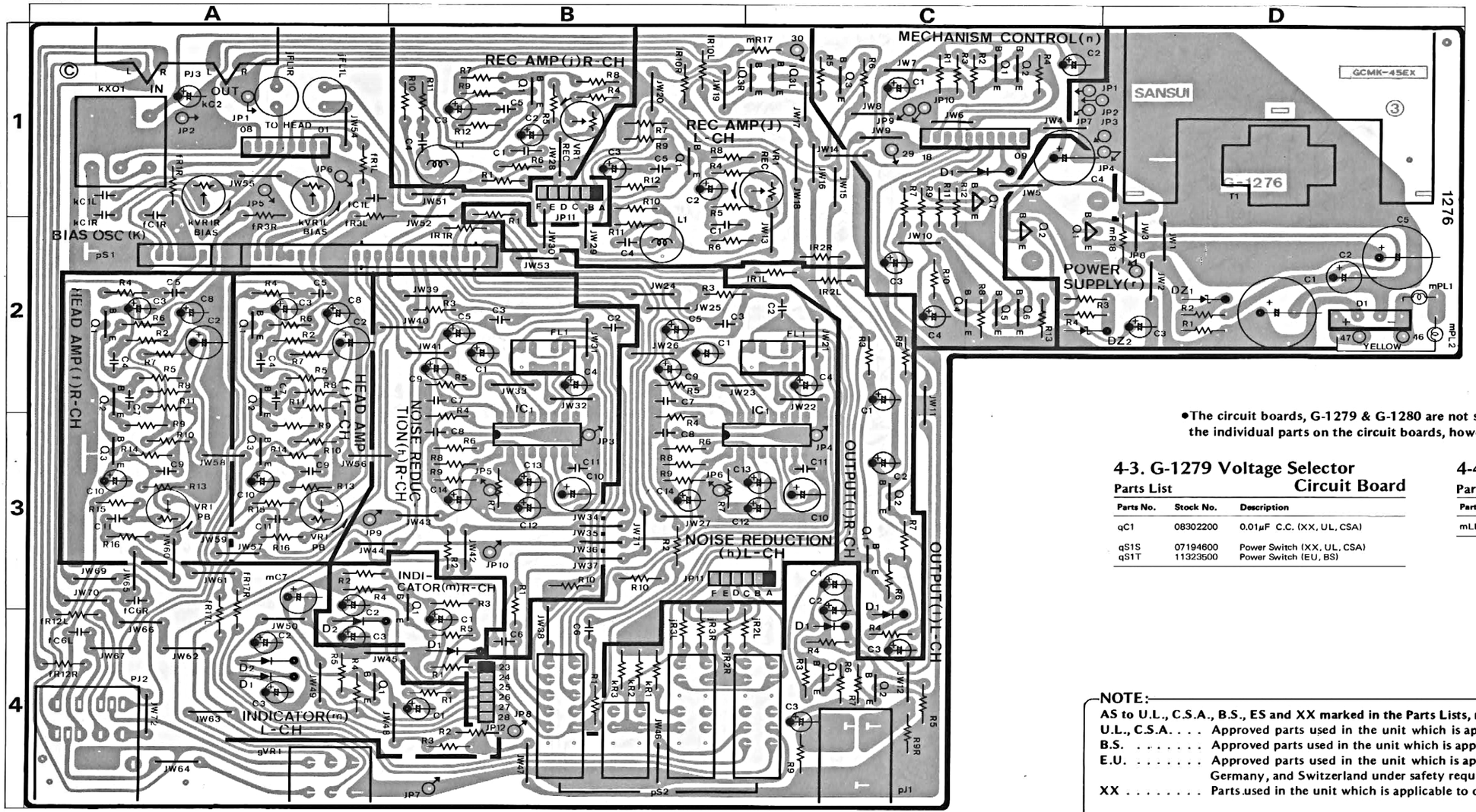
4. PARTS LOCATION & PARTS LIST

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.

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

Conductor Side



Parts List

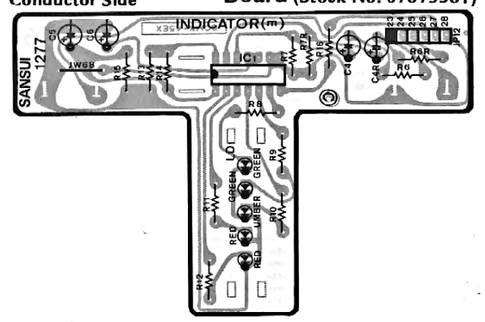
Parts No.	Stock No.	Description
•Transistor		
lQ1	03068301	2SC2320 E
rQ1	03083901	2SD313AL D
mQ1	03068301	2SC2320 E
nQ	03068301	2SC2320 E
fQ1	03060701	2SC1313 G
jQ1	03068301	2SC2320 E
fQ2	03060701	2SC1313 G
nQ2	03068301	2SC2320 E
rQ2	03083901	2SD313AL D
lQ2	03012700	2SA999 E
nQ3	03012700	2SA999 E
lQ3	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
lD1	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 (BO-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.Q. DOLBY NR)
pJ1	24305900	Head Phone Jack
pJ2	24305300	Mic Jack
pJ3	22007100	LINE IN/LINE OUT Terminal

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

Conductor Side



Parts List

Parts No.	Stock No.	Description
•IC		
mIC1	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 List

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 List

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 Sweeden, 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

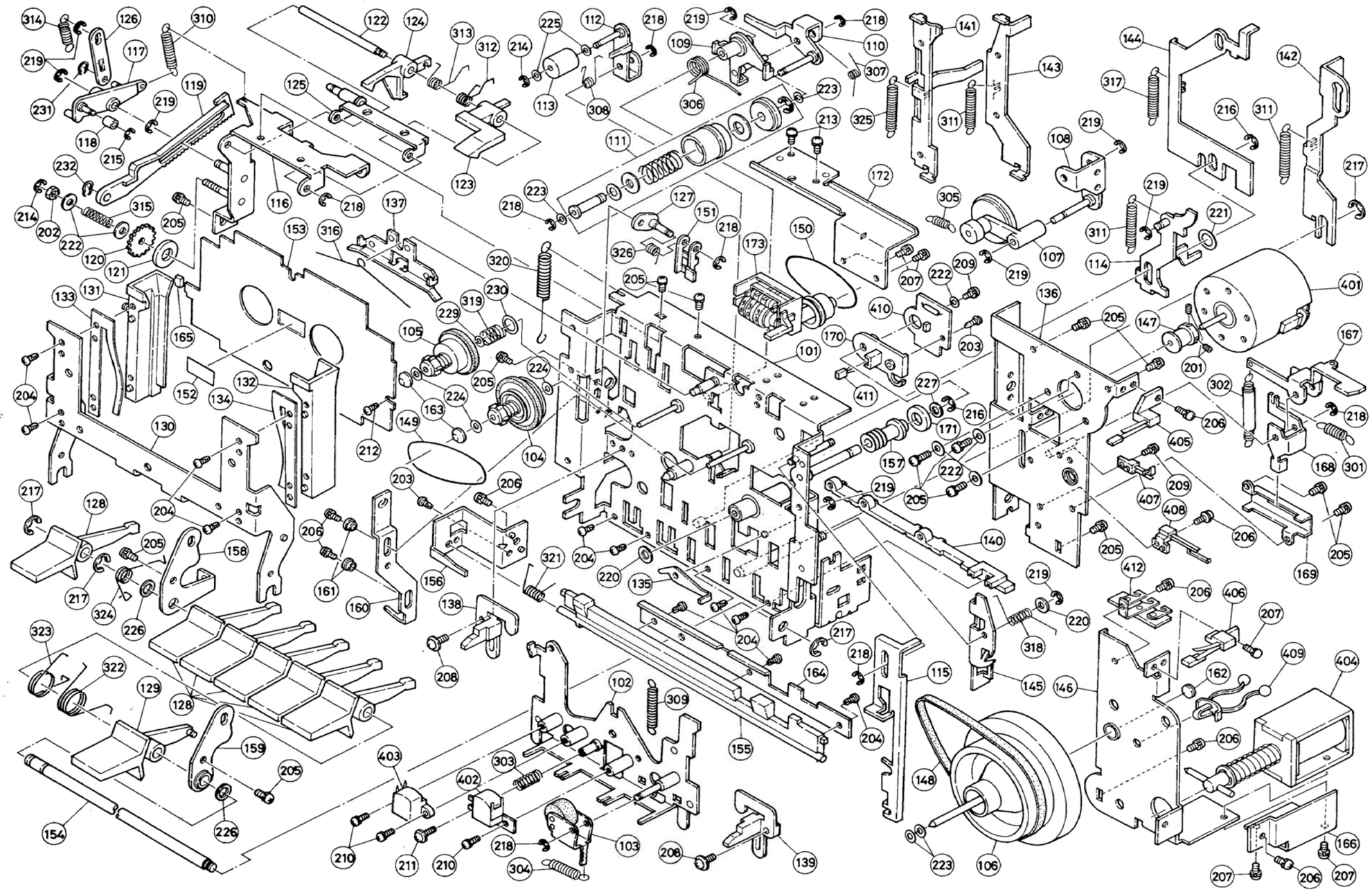
C.R.	Carbon Resistor	E.L.	Low Leak Electrolytic Capacitor
S.R.	Solid Resistor	E.B.	Bi-Polar Electrolytic Capacitor
Ce.R.	Cement Resistor	E.BL.	Low Leak Bi-Polar Electrolytic Capacitor
M.R.	Metal Film Resistor	Ta.C.	Tantalum Capacitor
F.R.	Fusing Resistor	F.C.	Film Capacitor
N.I.R.	Non-Inflammable Resistor	M.P.	Metalized Paper Capacitor
C.C.	Ceramic Capacitor	P.C.	Polystyrene Capacitor
C.T.	Ceramic Capacitor, Temperature Compensation	G.C.	Gimmic Capacitor
E.C.	Electrolytic Capacitor		

5. EXPLODED VIEW AND PARTS LIST

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

Parts List

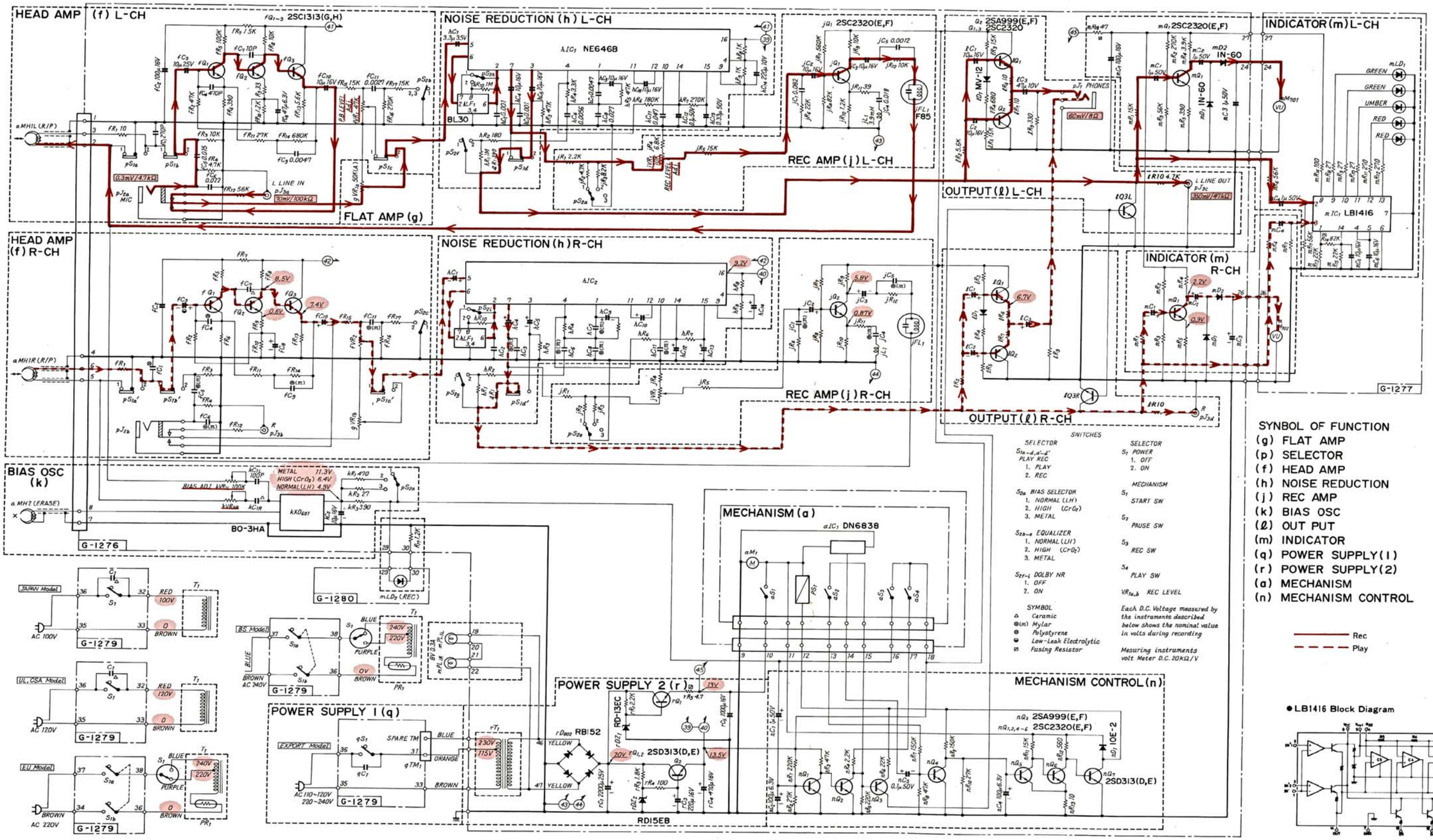
Parts No.	Stock No.	Description
103	70603400	Pinch Roller Arm Ass'y
104	71501400	Reel Hub (A) Ass'y
105	07507000	Reel Hub (B) Ass'y
106	70402300	Flywheel Ass'y
107	70603500	TU Idler Ass'y
109	70603600	FR Lever Ass'y
111	70603700	Idler (A) Ass'y
113	70603800	Idler (B) Ass'y
117	07507100	Eject Hook Lever
118	07507200	Eject Hook Roller
119	07507300	Cassette Holder Lock Arm
120	07507400	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
	07527600	Cassette Wel Ass'y
130	07507900	Cassette Guide Plate
131	07508000	Cassette Holder Guide (L)
132	07508100	Cassette Holder Guide (R)
133	07508200	Cassette Holder Spring (L)
134	07508300	Cassette Holder Spring (R)
138	07508400	Cassette Holder Base (L)
139	07508500	Cassette Holder Base (R)
147	61402000	Motor Pulley
148	60302500	Capstan Belt
149	07508600	Counter Belt (A)
150	60302400	Counter Belt (2) (B)
152	07508700	Fluorescent tape
153	07508800	Mechanism Masking Plate
157	07508900	Counter Idler Ass'y
160	07509000	Eject Lever Plate
162	51604000	Flywheel Thrust Screw
163	53700900	Cap
170	07509100	Holl IC Mounting Holder
173	07509300	Counter
•Washers · Nuts · Screws		
201	08322300	Hex Socket Setscrew M2 x 3
202	00463400	Hexagon Nuts M2.6
203	08321100	Pan Head Tapping Screw M2.6 x 8
204	00440300	Pan Head Tapping Screw M2 x 6
205	08321300	Pan Head SEMS (A type) M2.6 x 4
206	08321400	Pan Head SEMS (A type) M2.6 x 6
207	08322100	Pan Head SEMS (A type) M3 x 6
208	08322800	Pan Head SEMS (A type) M2.6 x 7
209	08321500	Pan Head SEMS (A type) M2 x 5
210	08321600	Pan Head SEMS (A type) M2 x 6
211	08321800	Serrated Washer Head Screw (+, –) M2 x 5
212	07512700	Pan Head Screw M2.6 x 5
213	00457400	Binding Head Taptite Screw M3 x 6
214	00488900	E Ring M1.5 x 0.4
215	07513400	E Ring M1.2 x 0.3
216	00489200	E Ring M3 x 0.6
217	00489300	E Ring M4 x 0.6
218	00489000	E Ring M2 x 0.4
219	08322600	E Ring M2.5 x 0.4
220	00466500	Plane Washer M3
221	08323300	Plane Washer M5.1 x 0.2
222	00466300	Plane Washer M2.6 x 0.5
223	51804000	Thrust Washer M2.5 x 0.25
224	51804200	Thrust Washer M1.6 x 0.25
225	07513000	Thrust Washer M2.1 x 0.13
226	07513100	Thrust Washer M5.7 x 0.25
227	07513200	Thrust Washer M4.1 x 0.15
228	08323500	Nylon Washer M2.4 x 0.5
229	51804900	Lumiler Washer M6.2 x 0.15
230	07513300	Lumiler Washer M6.8 x 0.15
231	07510900	G Ring M2.5
232	07511000	G Ring M3
•Spring		
301	69020300	Over Stroke
302	69020400	Over Stroke Lever Spring (C)
303	69011000	Head Adjust
304	69018600	Pinch Roller
305	69018700	TU Lever Ass'y
306	69018800	FR Lever Ass'y
307	69018900	Idler Lever
308	69019000	Idler (B) Lever
309	69019100	Play Plunger Rest
310	69019200	Eject Hook
311	69019300	Head Base
312	69019400	Cassette Holder
313	69019500	Rec Prevention Nail
314	07509400	Eject Hook Plate
315	07509500	Friction Gear Spring (B)
316	69019600	Brake Lever
317	69019700	Brake Lever Plate
318	69019800	Pause Lock Plate
319	07509700	Reel Hub (B) (Back Tension)
320	07509800	Cassette Holder
321	07509900	Push Button Lock Plate Spring (B)
322	07510000	Pause Button
323	07510100	Stop Button
324	07510200	Eject Button
325	07510300	Rec Lever Plate
326	07510400	Rec Stopper Lever
401	43207500	Motor
402	07556600	Rec/P.B Head
403	45260400	Erase Head
404	07510700	Plunger Solenoid
405	11908100	Leaf Switch
406	11908000	Leaf Switch
407	11908300	Leaf Switch
408	07510800	Leaf Switch
411	03614000	Holl IC DN-6838 (Read Switch)

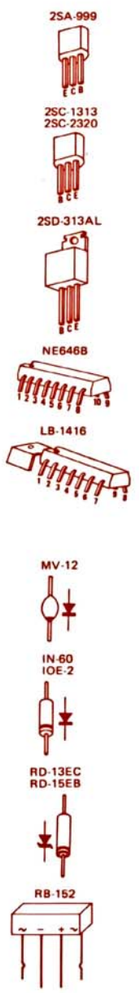


● Abbreviations

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

6. SCHEMATIC DIAGRAM

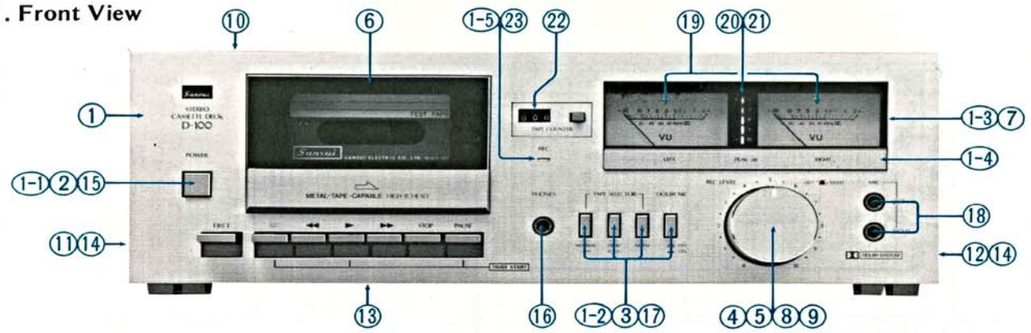




● LB1416 Block Diagram

7. OTHER PARTS

7-1. Front View



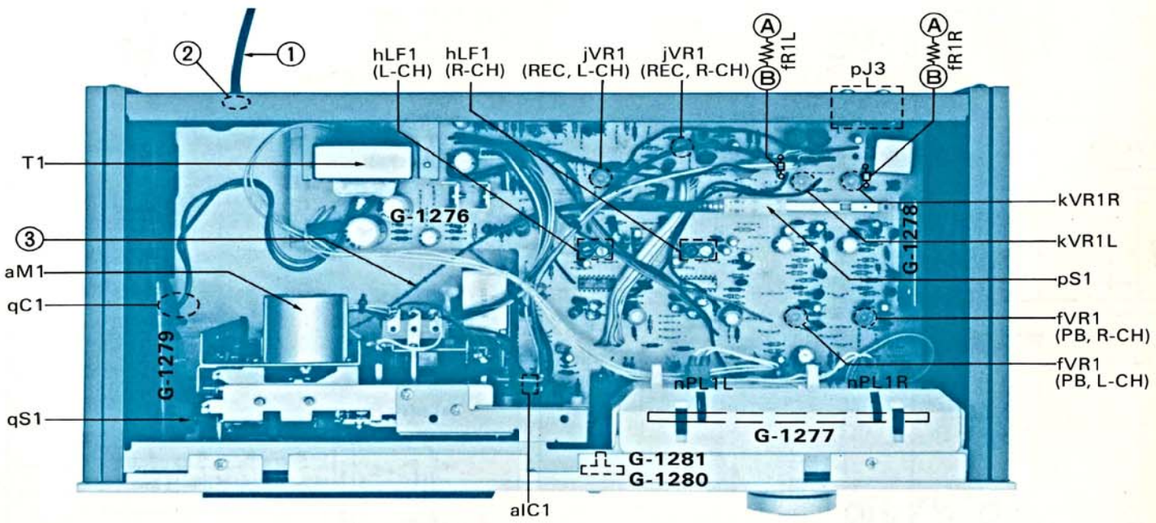
Parts List

Parts No.	Stock No.	Description
●Silver Model Only		
1	07542700	Front Panel Ass'y
1-1	59560800	Knob Guide, power switch knob
1-2	53967810	Knob Guide, tape selector/ dolby NR switch knob
1-3	54401400	Front Glass
1-4	07541400	Meter Panel Plate
1-5	07541500	1P Indicator Plate
2	53195000	Knob, power switch
3	53194910	Knob, tape selector/ dolby NR switch
4	53107000	Knob, REC level knob (Left)
5	53107100	Knob, REC level knob (Right)
6	07548000	Cassette Lid Ass'y
●Black Model Only		
1	07542800	Front Panel Ass'y

Parts No.	Stock No.	Description
1-1	59560900	Knob Guide, power switch knob
1-2	53967710	Knob Guide, tape selector switch knob
1-3	54401400	Front Glass
1-4	07541700	Meter Panel Plate
1-5	07541500	1P Indicator Plate
2	53196500	Knob, power switch
3	53194810	Knob, tape selector switch
4	53106800	Knob, REC level knob (Left)
5	53106900	Knob, REC level knob (Right)
6	07548100	Cassette Lid Ass'y
●Silver & Black Model		
7	07541900	Meter Frame
8	50485300	Masking Sheet
9	10250400	REC Level Volume 50kΩ (A) x 2

Parts No.	Stock No.	Description
10	57272600	Bonnet
11	54578000	Side Panel (Left)
12	54578110	Side Panel (Right)
13	50664310	Bottom Plate
14	55074510	Rubber Patch
15	07194600	Power Switch (XX, UL, CSA)
	11323500	Power Switch (EU, BS)
16	24305900	Head Phone Jack
17	07191300, 1	Tape Selector/Dolby NR Switch
18	24305300	Mic Jack Ass'y
19	07191900	VU Meter
20	07192200	5P Indicator L.E.D.
21	07541800	5P L.E.D. Holder
22	07509300	Tape Counter Ass'y
23	03193700	1P Indicator L.E.D., REC

7-2. Top View



Parts List

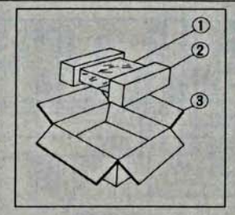
Parts No.	Stock No.	Description
1	38004300	Power Cord (BS)
	38004500	Power Cord (EU)
	38005400	Power Cord (XX)
	38004700	Power Cord (UL, CSA)
2	39104900	Strain Relief 4φ (EU, BS)
	39106000	Strain Relief 3φ (XX, UL)
3	60560600	Flexible Wire Ass'y

Parts No.	Stock No.	Description
T1	07192101	Power Transformer (XX)
	07192102	Power Transformer (UL, CSA)
	07192105	Power Transformer (EU, BS)
aM1	43207500	Motor
qC1	08302200	0.01μF C.C. (XX, UL, CSA)
qS1	07194600	Power Switch (XX, CSA, UL)
	11323500	Power Switch (EU, BS)

Parts No.	Stock No.	Description
aIC1	03614000	Holl IC, DN-6838 (Read Switch)
nPL1L, 1R	04007500	Pilot Lamp, 8V 300 mA
pS1	11104000	Play/Rec Slide Switch
pJ3	22007100	LINE IN/LINE OUT Terminal

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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