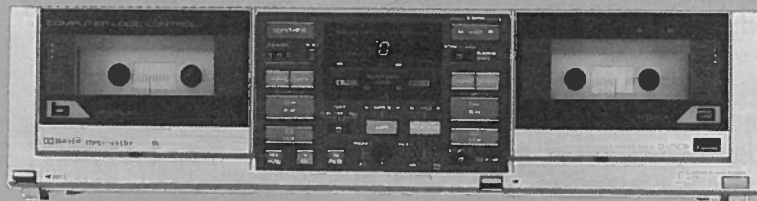


SERVICE MANUAL

STEREO DOUBLE CASSETTE DECK

SANSUI D-75CW

(Silver & Black Model)



CAUTION

1. Parts identified by the Δ symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

•SPECIFICATIONS

Track format	4-track/2-channel system
Tape speed	4.8 cm/sec., 9.5 cm/sec.
Heads	
Rec/play head	HIGH-Bs hard permalloy
Play head	HIGH-Bs hard permalloy
Erase head	Double-gap HIGH-Bs ferrite
Motor	Electronically controlled DC motor \times 2 Reels: DC Motor \times 2
Wow/flutter	0.06% max (WRMS)
Fast forwarding (rewinding) time	
.....	Approx. 85 sec. (for C-60 tape)
Frequency response (—20 VU recording/playback)	
Normal tape (LH)	20 to 15,000 Hz (30 to 14,000 Hz \pm 3 dB)
Chrome Tape	20 to 16,000 Hz (30 to 15,000 Hz \pm 3 dB)
Metal Tape	20 to 17,000 Hz (30 to 16,000 Hz \pm 3 dB)
Erasure rate (metal tape)	
.....	70 dB min (1 kHz)
Recording bias frequency	
.....	85 kHz
Input sensitivity/impedance	
LINE IN (REC)	150 mV/47 kohms
Signal to noise ratio (Record/Playback)	
Metal Tape (without Dolby Noise Reduction)	
.....	better than 54 dB
(With Dolby Noise Reduction Effect)	
DOLBY "B" NR	better than 64 dB (above 5 kHz)
DOLBY "C" NR	better than 74 dB (above 1 kHz)
Power requirements	
Power voltage	120/220/240V (50/60 Hz) For U.S.A. and Canada
.....	120V (60 Hz)
Power consumption	21 watts
Dimensions	430 mm (16-15/16") W 112 mm (4-7/16") H 221 mm (8-3/4") D
Weight	4.2 kg (9.3 lbs) net

* Design and specifications subject to changes without notice for improvements.

* Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double D symbol are trade marks of Dolby Laboratories Licensing Corporation.

Sansui

SANSUI ELECTRIC CO., LTD.

CAUTION

1. The symbols, UL, CSA, SA, BS, UK, EU, AS, XX <EXPORT> and XX-V <EXPORT(V)> on the parts list and the schematic diagram mean followings respectively.
 - UL..... Manufactured for U.S.A market.
(Underwriters Laboratories approved model.)
 - CSA..... Manufactured for Canadian market.
 - SA..... Manufactured for South African market.
 - BS, UK..... Manufactured for United Kingdom market.
 - EU..... Manufactured for European market.
 - AS..... Manufactured for Australian market.
 - XX <EXPORT>..... Standard Version with Inner Voltage Selector.
 - XX-V <EXPORT(V)>.... Standard Version with Outer Voltage Selector.
 - NON MARK..... Common Parts.

2. Some printed circuit boards are not supplied as the assembled. To separate these in this service manual, the stock No's are not indicated at the ends of the board names. However, the individual parts on the circuit boards are provided by orders.

3. 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 issued on February 1983.

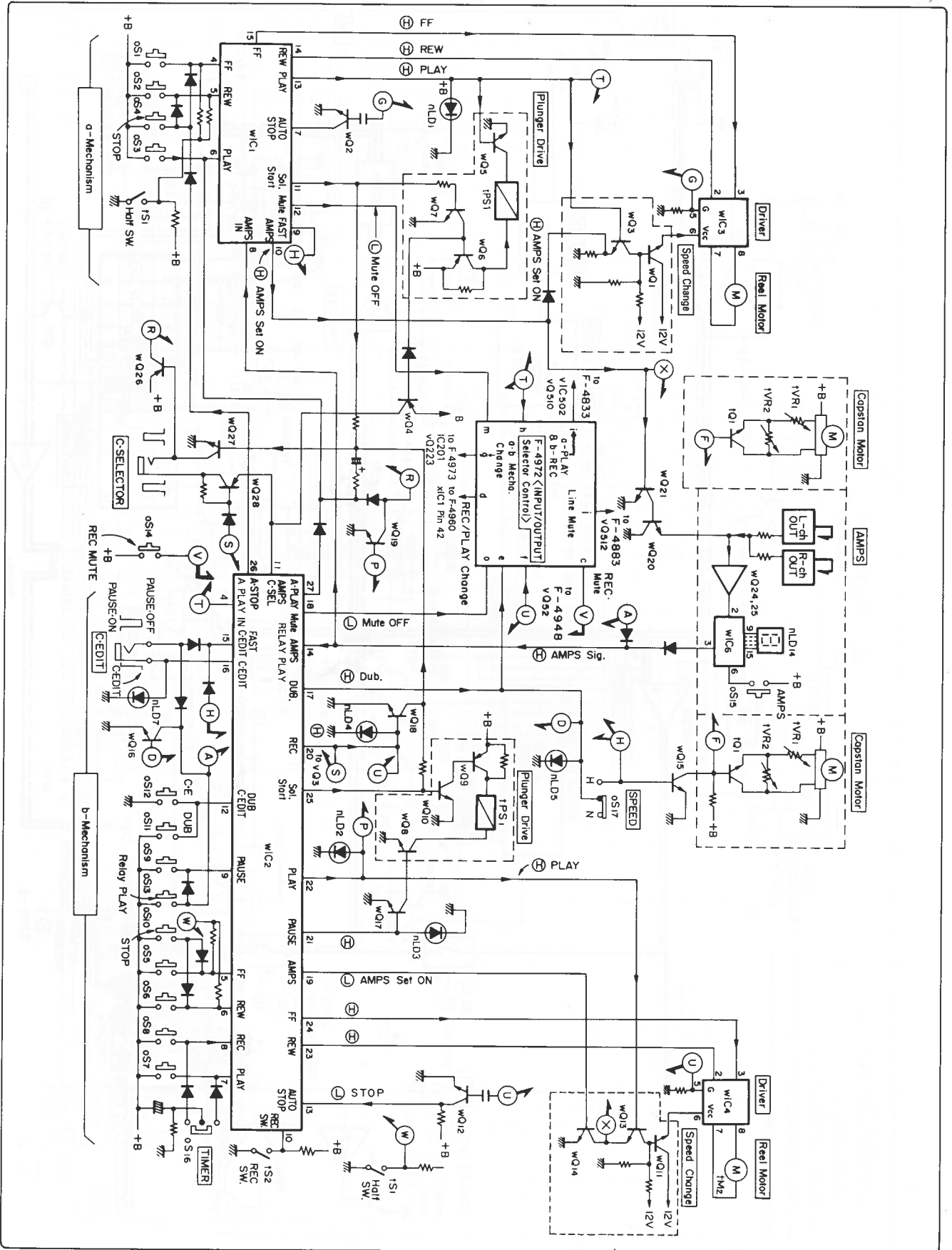
4. Abbreviations in this service manual are as follows.

•Abbreviations List

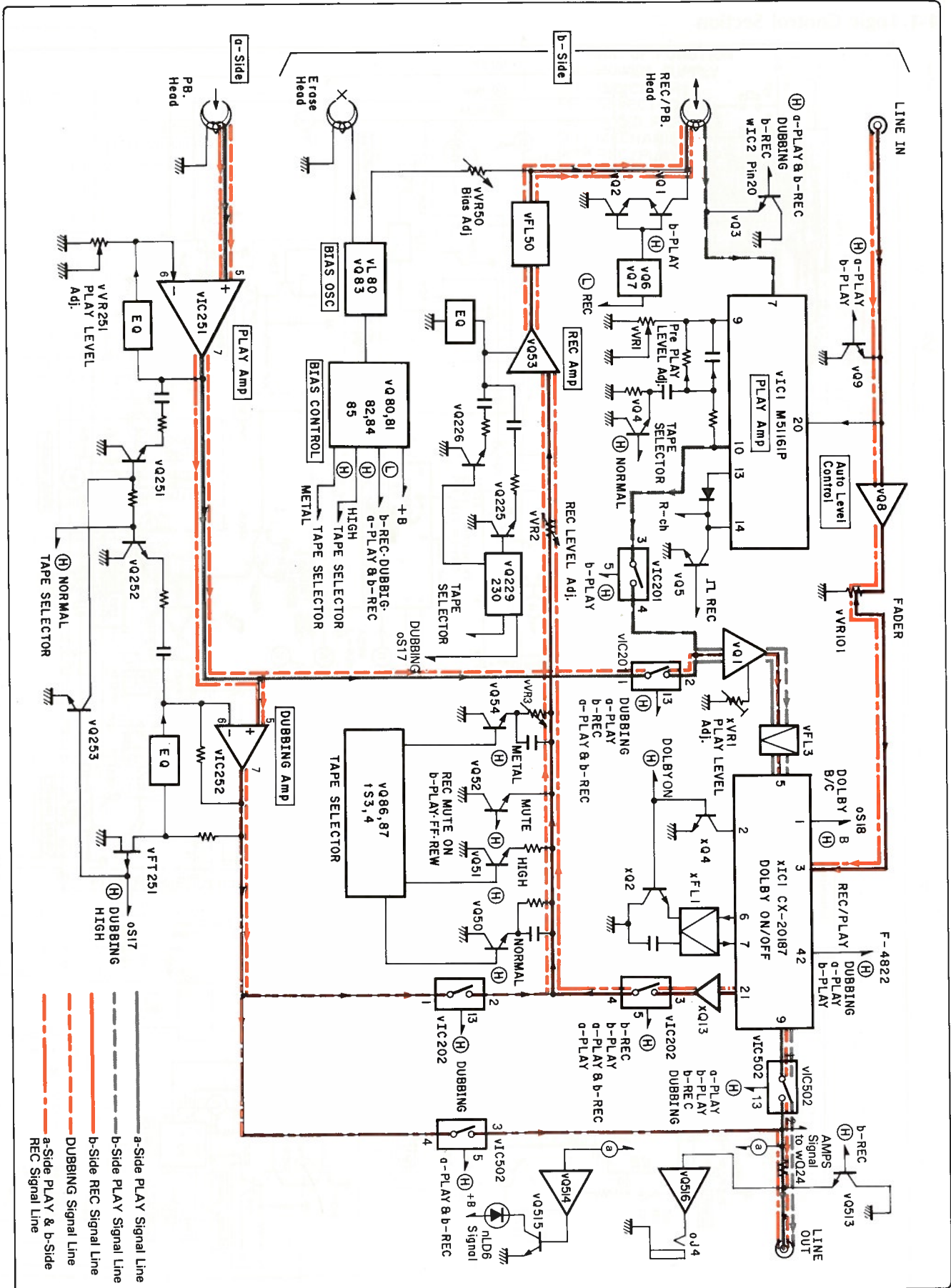
C.R. : Carbon Resistor	E.B.L. : Low Leak Bi-Polar
S.R. : Solid Resistor	Electrolytic Capacitor
Ce.R. : Cement Resistor	Ta.C. : Tantalum Capacitor
M.R. : Metal Film Resistor	F.C. : Film Capacitor
F.R. : Fusing Resistor	M.P. : Metalized Paper Capacitor
N.I.R. : Non-Inflammable Resistor	P.C. : Polystyrene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

1. BLOCK DIAGRAM

1-1. Logic Control Section

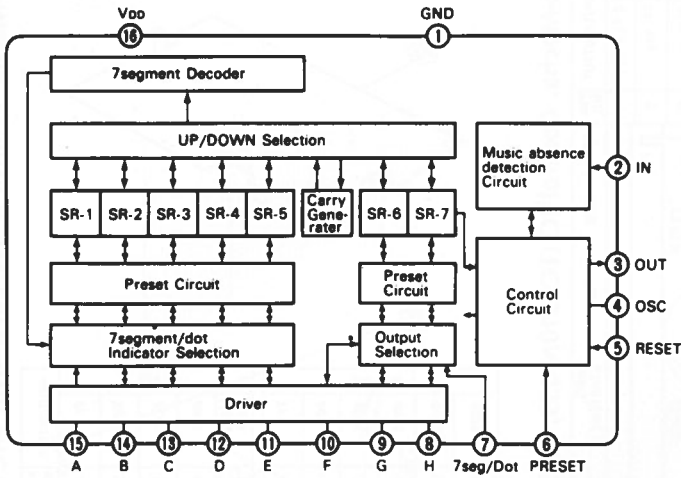


1-2. REC & PLAY Amplifier Section

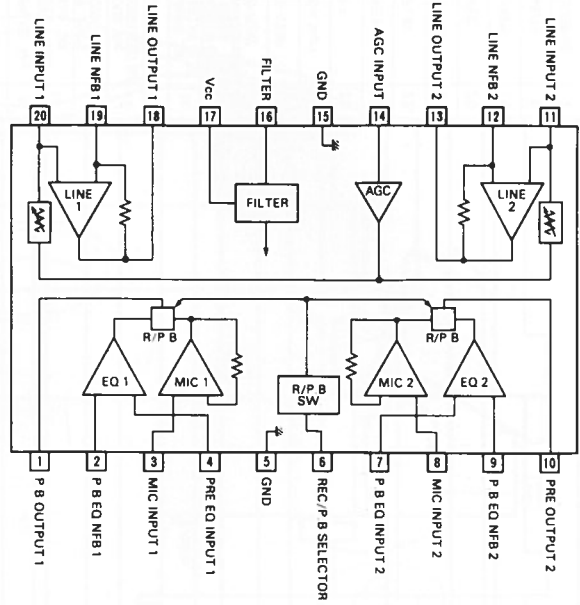


3. INTERIOR BLOCK DIAGRAM OF IC

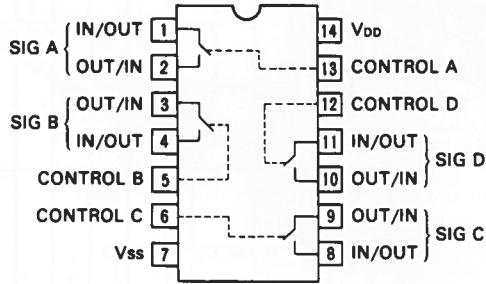
•TC9138AP (AMPS IC)



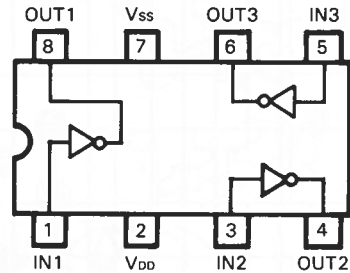
•M51161P (ALC & PLAY EQ Amp. IC)



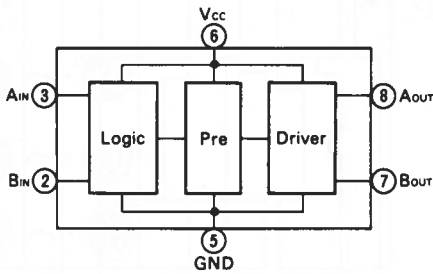
•BU4066B/MSM4066BRS/ μ PD4066BC
(Quard Analog SW. IC)



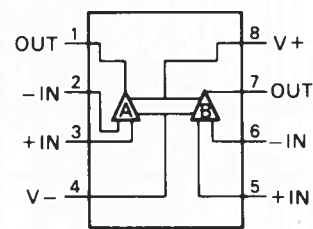
•LC4969 (Triple Inverter IC)



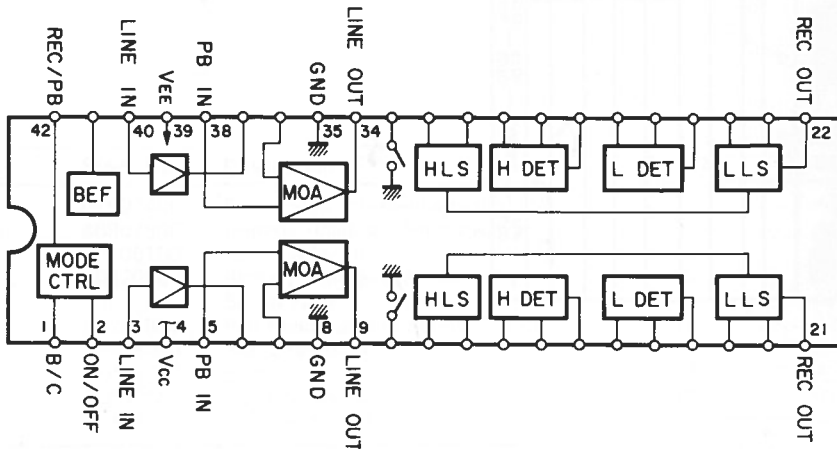
•BA6208 (Motor Drive IC)



•M5218P (OP Amp. IC)

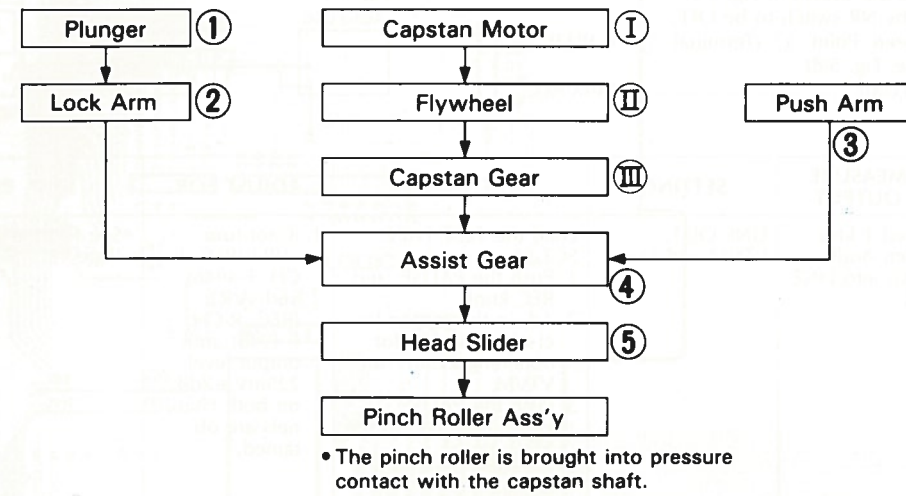


•CX-20187 (Dolby Noise Reduction IC)

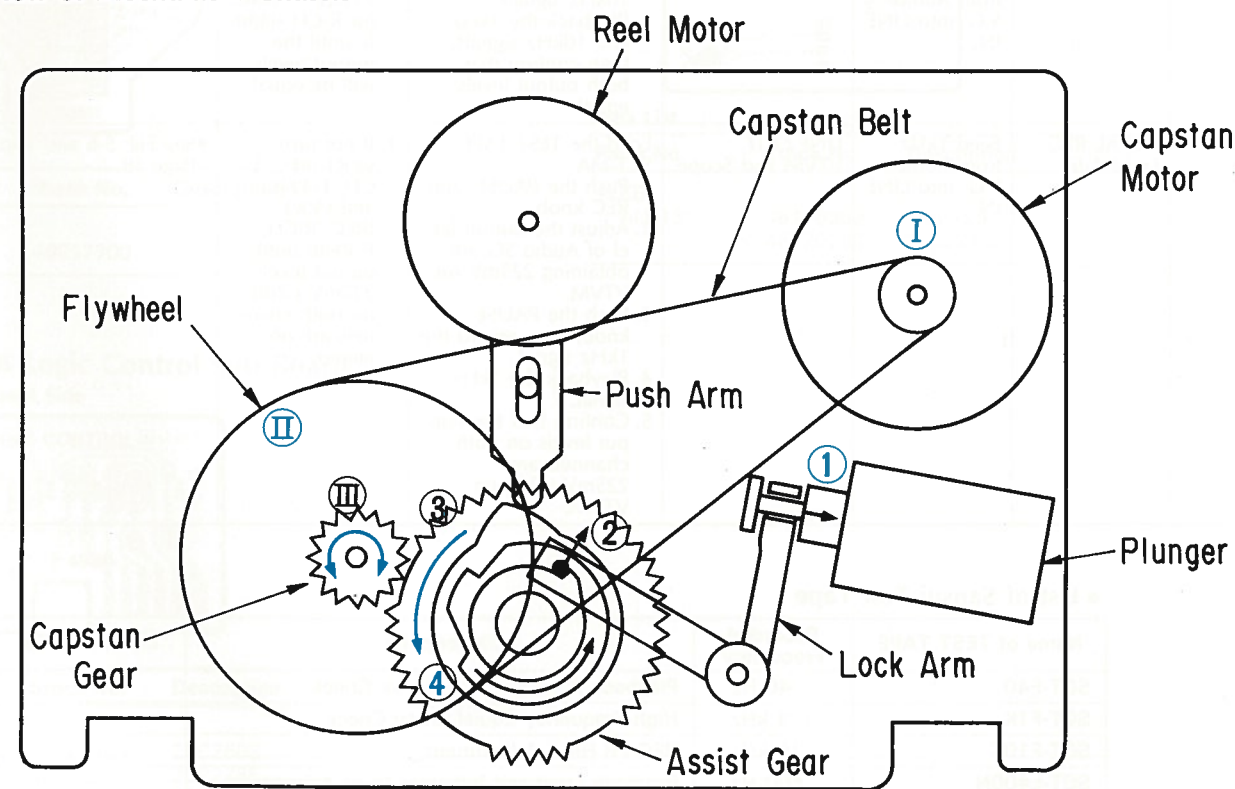


4. OPERATIONS OF PINCH ROLLER

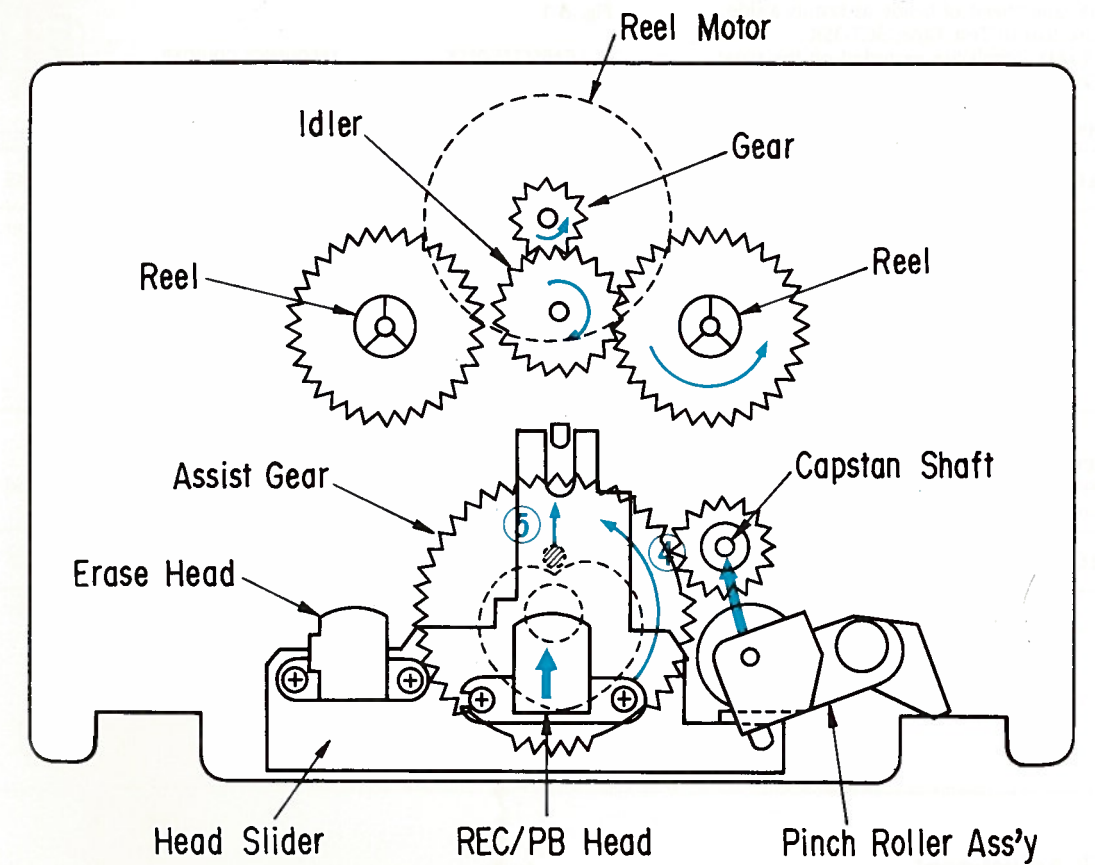
4-1. Torque Transportation Flowchart



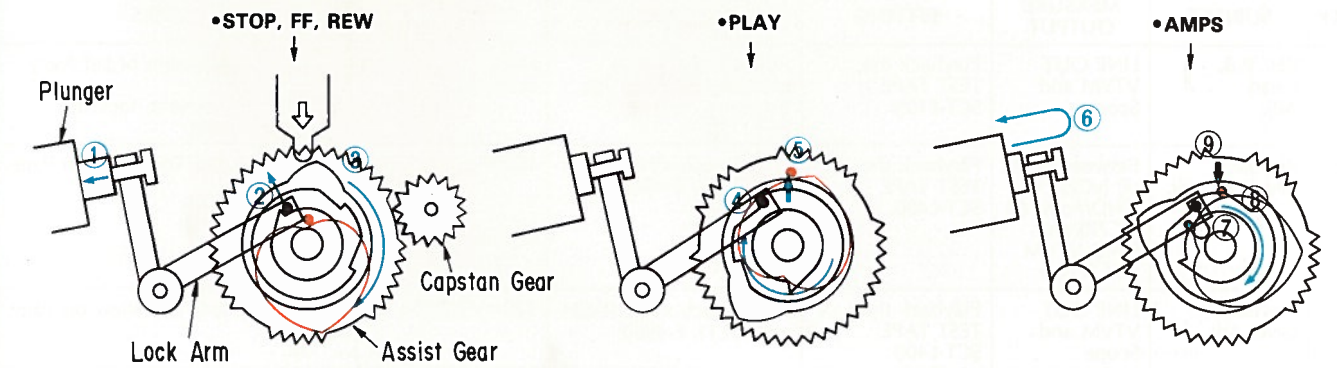
4-2. Rear View of Mechanism Chassis



4-3. Front View of Mechanism Chassis



4-4. Cam Positions in the Modes of PLAY, FF, REW & STOP



5. ADJUSTMENTS

5-1. Tape Speed Adjustment

- Adjust the tape speed of b-side as fast as a-side.
Note: 1. Use Sansui Test Tape, SCT-3SK (3 kHz signals are recorded on the tape).
 2. Connections are shown in Fig. 5-1.

Fig. 5-1

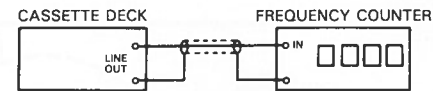
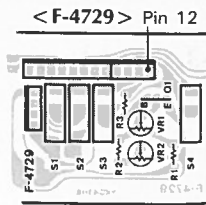


Fig. 5-2



1) Tape Speed Adjustment (NORMAL SPEED)

STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	A Side Mecha.	LINE OUT Frequency counter	Playback the TEST TAPE SCT-S3K. A Side Mecha	Turn semi-variable resistor (tVR1) of A Side Mecha. as Fig. 5-2.	3000Hz \pm 30Hz	Use small screw driver.
2.	B Side Mecha.		Playback the TEST TAPE SCT-S3K. B Side Mecha.	Turn semi-variable resistor (tVR1) of B Side Mecha. as Fig. 5-2.	3000Hz \pm 30Hz	

2) Tape Speed Adjustment (HIGH SPEED)

- Note:** 1. Before this adjustment, regulate "5-1. Tape Speed Adjustment (NORMAL SPEED)"
 2. Short between Pin No. 12 (R3) on F-4729 & Ground (See Fig. 5-2)

STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	A Side Mecha.	LINE OUT Frequency counter	Playback the TEST TAPE SCT-S3K. A Side Mecha	Turn semi-variable resistor (tVR2) of A Side Mecha. as Fig. 5-2.	6000Hz \pm 60Hz	Use small screw driver.
2.	B Side Mecha.		Playback the TEST TAPE SCT-S3K. B Side Mecha.	Turn semi-variable resistor (tVR2) of B Side Mecha. as Fig. 5-2.	6000Hz \pm 60Hz	

5-2. Playback Adjustment

- Note:** 1. Before this adjustment, clean REC/P.B. head surface.
 2. For this adjustment, use Sansui Test Tape, SCT-F10K, and SCT-L400.
 3. Set the Dolby NR switch to be OFF.
 4. Connections are shown in Fig. 5-3.

Fig. 5-3

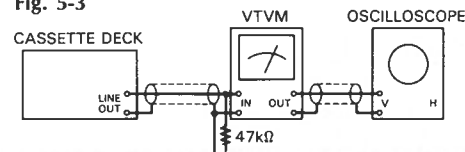
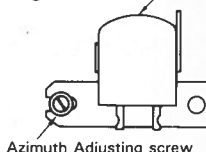


Fig. 5-4



1) b-Side Mecha. Adjustment

STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	REC/P.B. Head Adj.	LINE OUT VTVM and Scope	Playback the TEST TAPE SCT-F10K	Adjust the azimuth adjusting screw in Fig. 5-4.	MAX. Output both channels.	Refer to removal of Lid Ass'y on Page 20. After this adjustment, lock the screw with paint.
2.	Playback Level Pre Adj.	Between Point Ⓐ (vC7L) and GND/Point Ⓑ (vC7R) and GND VTVM and Scope	Playback the TEST TAPE SCT-L400	Adjust each vVR1 (L-CH and R-CH, F-4948)	10mV \pm 2dB	See Fig. 5-6 and Top View on Page 18.
3.	Playback Level Adj.	LINE OUT VTVM and Scope	Playback the TEST TAPE SCT-L400	Adjust each xVR1 (L-CH and R-CH, F-4960)	320mV \pm 2dB	See Fig. 5-7 and Top View on Page 18.

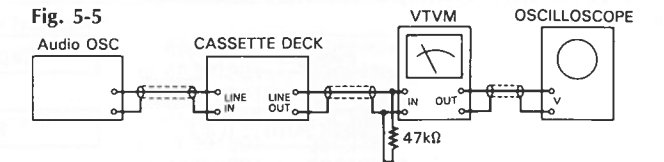
2) a-Side Mecha. Adjustment

STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	REC/P.B. Head Adj.	LINE OUT VTVM and Scope	Playback the TEST TAPE SCT-F10K	Adjust the azimuth adjusting screw in Fig. 5-4.	MAX. Output both channels.	Refer to removal of Lid Ass'y on Page 20. After this adjustment, lock the screw with paint.
2.	Playback Level Adj.	Same as above	Playback the TEST TAPE SCT-L400	Adjust each vVR251 (L-CH and R-CH, F-4991)	320mV \pm 2dB	See Top View on Page 18.

5-3. REC Level & Frequency Response Adjustment <b Side Mecha. only>

- Note:** 1. Connections are shown in Fig. 5-5.
 2. Set the Dolby NR switch to be OFF.
 3. Short between Point Ⓒ (Terminal Ⓒ, F-4833) & Ground (See Fig. 5-8)
 4. FADER VOLUME MAX/ALC.

Fig. 5-5



STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	REC/Level Adj.	Feed 1 kHz from Audio S.G. into LINE IN.	LINE OUT, VTVM and Scope	Load the TEST TAPE SCT-SA. 1. Push the PAUSE, and REC knob. 2. Adjust the output level of Audio SG. for obtaining 225mV on VTVM. 3. Push the PAUSE knob, then record the 1kHz signal. 4. Playback the 1kHz signal. 5. Confirm that the output levels on both channels are 225mV \pm 2dB on VTVM.	1. If not turn vVR2 (REC, L-CH, F-4948) and vVR2 (REC, R-CH, F-4948) until output level 225mV \pm 2dB on both channels are obtained.	•See Fig. 5-6 and Top View on Page 18.
2.	Frequency Response Adj.	Feed 1kHz 10mV and 10kHz 10mV, from Audio S.G. into LINE IN.	Same as above	Load the TEST TAPE SCT-SA. 1. Record the 1kHz and 10kHz signals. 2. Playback the 1kHz and 10kHz signals, then confirm that both output levels equal.	1. If not, adjust vVR50 (F-4948) for L-CH and vVR50 (F-4948) for R-CH slightly until the output levels will be equal.	•See Fig. 5-6 and Top View on Page 18.
3.	METAL REC Level Adj.	Feed 1kHz from Audio S.G. into LINE IN.	LINE OUT, VTVM and Scope	Load the TEST TAPE SCT-MA. 1. Push the PAUSE, and REC knob. 2. Adjust the output level of Audio SG. for obtaining 225mV on VTVM. 3. Push the PAUSE knob, then record the 1kHz signal. 4. Playback the 1kHz signal. 5. Confirm that the output levels on both channels are 225mV \pm 2dB on VTVM.	1. If not turn vVR3 (REC, L-CH, F-4948) and vVR3 (REC, R-CH, F-4948) until output level 225mV \pm 2dB on both channels are obtained.	•See Fig. 5-6 and Top View on Page 18.

◆ List of Sansui Test Tape

Name of TEST TAPE	Recorded Frequency	Description	Equivalent To
SCT-F40	40 Hz	Playback Frequency Response Check	—
SCT-F1K	1 kHz	High Frequency Equalization Check	—
SCT-F10K	10 kHz	REC/PB Head Adjustment	—
SCT-L400N	400 Hz	Playback Level and Indicator Level Adjustment	—
SCT-S3K	3 kHz	Speed Check and Wow & Flutter Check	—
*SCT-AD (NORMAL)	—	Recording Bias Adjustment	TDK AD
*SCT-SA (HIGH)	—	REC/PB Level Adjustment	TDK SA
*SCT-MA (METAL)	—	Frequency Response Check	TDK MA

- Note:** Some reference tapes marked * are not supplied.
 As these are equivalent to ones indicated above, please obtain these blank tapes on your side as possible.

Fig. 5-6

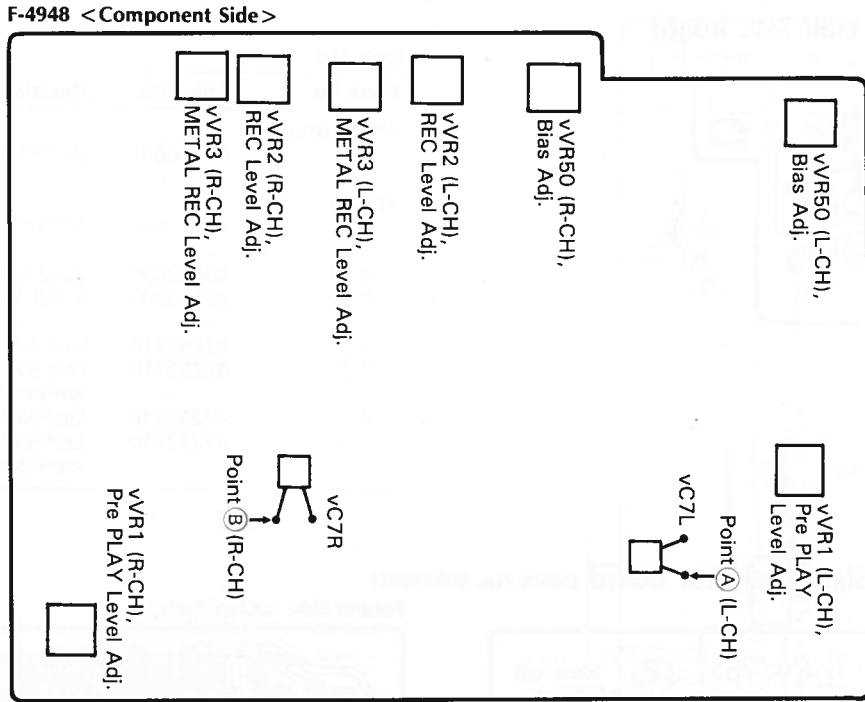


Fig. 5-7

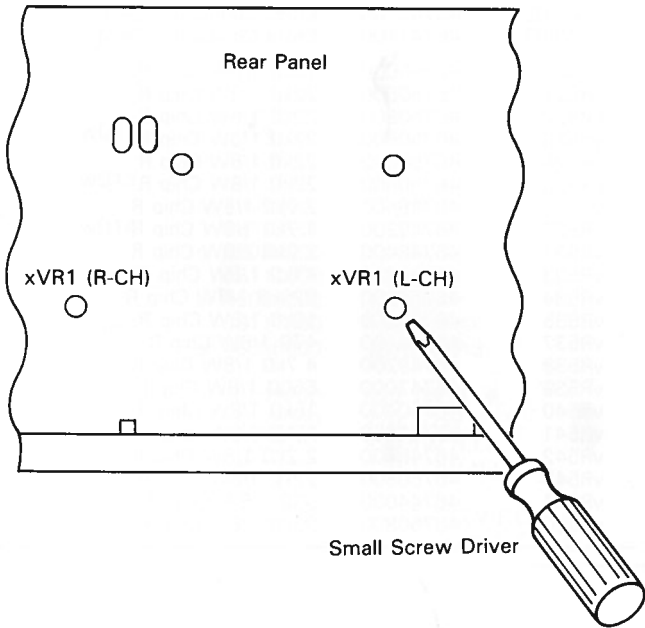
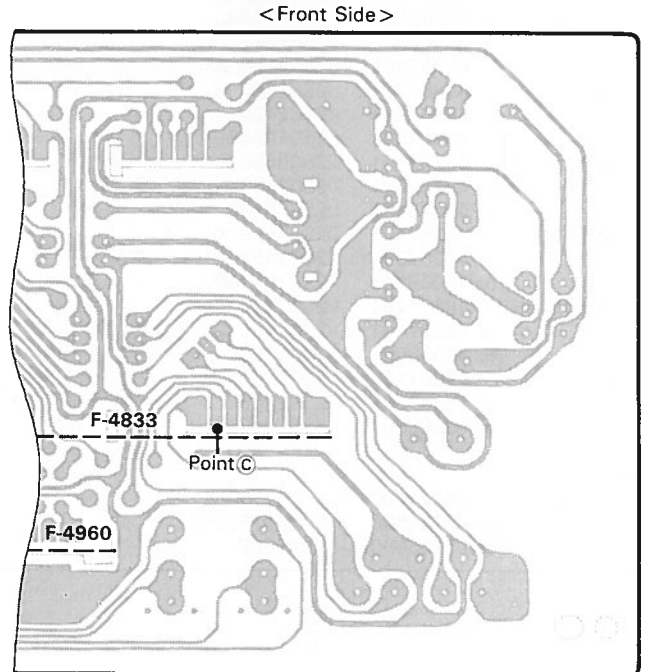
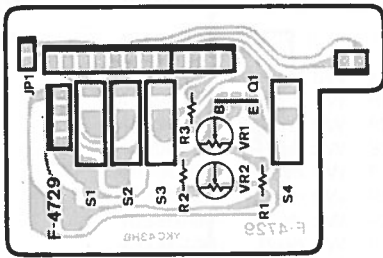


Fig. 5-8 < F-4976 Pattern Side >



6. PARTS LOCATION & PARTS LIST

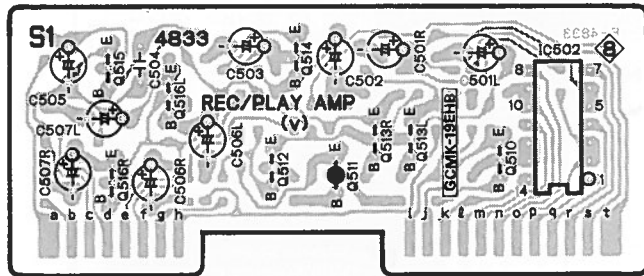
6-1. F-4729 Cassette Half SW. Board Component Side



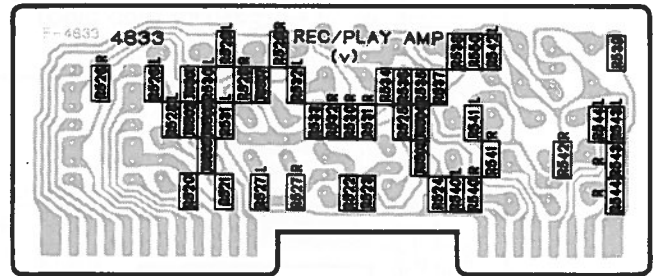
Parts List

Parts No.	Stock No.	Description
•Transistor		
tQ1	07206901	2SC2001
•Diode		
tD1	03111600	1S2473D
tVR1	46839600	10kΩ S.V.R., NORMAL SPEED
tVR2	46839500	4.7kΩ S.V.R., HIGH SPEED
tS1	47292710	Leaf SW., half sensor
tS2	47292710	Leaf SW., prevention tab sensor <b-side Mechanism>
tS3	47292710	Leaf SW., tape sel. HIGH
tS4	47292710	Leaf SW., tape sel. METAL <b-side Mechanism>

6-2. F-4833 Output Signal Selector Board (Stock No. 00884801) Component Side



Pattern Side <Chip Parts>



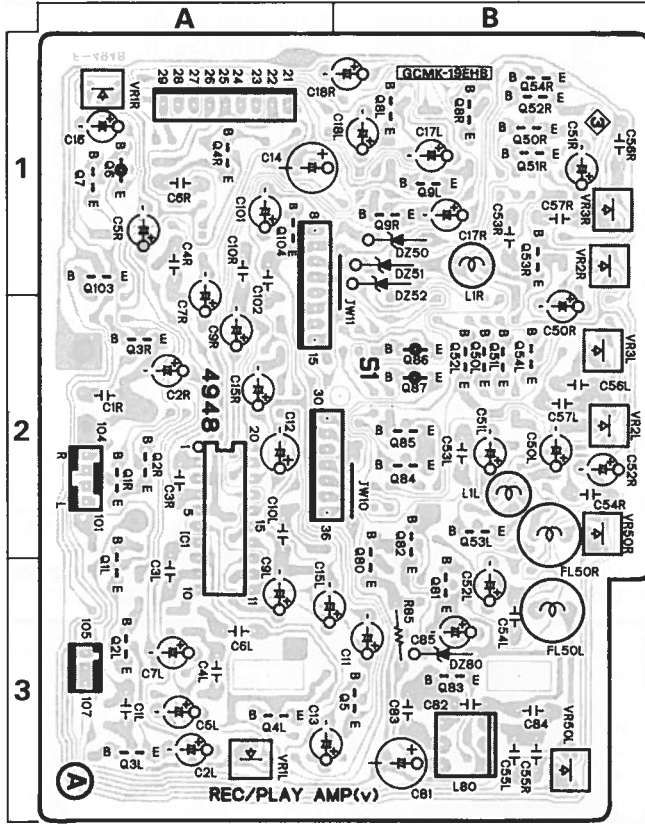
Parts List

Parts No.	Stock No.	Description
•Transistor		
vQ510	46367101 or 46367301 or 48058801	2SC2603 2SC2458 2SC1740S
vQ511	46367001 or 46392001	2SA1115 2SA1175
vQ512	46367101 or 46367301 or 48058801	2SC2603 2SC2458 2SC1740S
vQ513	46367101 or 46367301 or 48058801	2SC2603 2SC2458 2SC1740S
vQ514	46367101 or 46367301 or 48058801	2SC2603 2SC2458 2SC1740S
vQ515	46367101 or 46367301 or 48058801	2SC2603 2SC2458 2SC1740S
vQ516	46367101 or 46367301 or 48058801	2SC2603 2SC2458 2SC1740S
•IC		
vIC502	46421000 or 48054500 or 48063800	μPD4066BC MSM4066BRS BU4066B

Parts No.	Stock No.	Description
vJW501	46741100	Cross Conductor (Chip)
vJW502	46741100	Cross Conductor (Chip)
vJW503	46741100	Cross Conductor (Chip)
vJW504	46741100	Cross Conductor (Chip)
vJW505	46741100	Cross Conductor (Chip)
vJW507	46741100	Cross Conductor (Chip)
vR520	46750000	10kΩ 1/8W Chip R.
vR521	46750800	22kΩ 1/8W Chip R.
vR522	46750800	22kΩ 1/8W Chip R.
vR523	46750800	22kΩ 1/8W Chip R.
vR524	46750800	22kΩ 1/8W Chip R.
vR525	46750800	22kΩ 1/8W Chip R.
vR526	46748400	2.2kΩ 1/8W Chip R.
vR527	46749200	4.7kΩ 1/8W Chip R.
vR531	46748400	2.2kΩ 1/8W Chip R.
vR533	46751600	47kΩ 1/8W Chip R.
vR534	46754600	820kΩ 1/8W Chip R.
vR535	46750000	10kΩ 1/8W Chip R.
vR537	46744400	47Ω 1/8W Chip R.
vR538	46749200	4.7kΩ 1/8W Chip R.
vR539	46747000	560Ω 1/8W Chip R.
vR540	46750400	15kΩ 1/8W Chip R.
vR541	46751600	47kΩ 1/8W Chip R.
vR542	46748400	2.2kΩ 1/8W Chip R.
vR543	46750800	22kΩ 1/8W Chip R.
vR544	46744000	33Ω 1/8W Chip R.
vR550	46750800	22kΩ 1/8W Chip R.

6-3. F-4948 b-Side REC & PLAY Amp. Board (Stock No. 00884601)

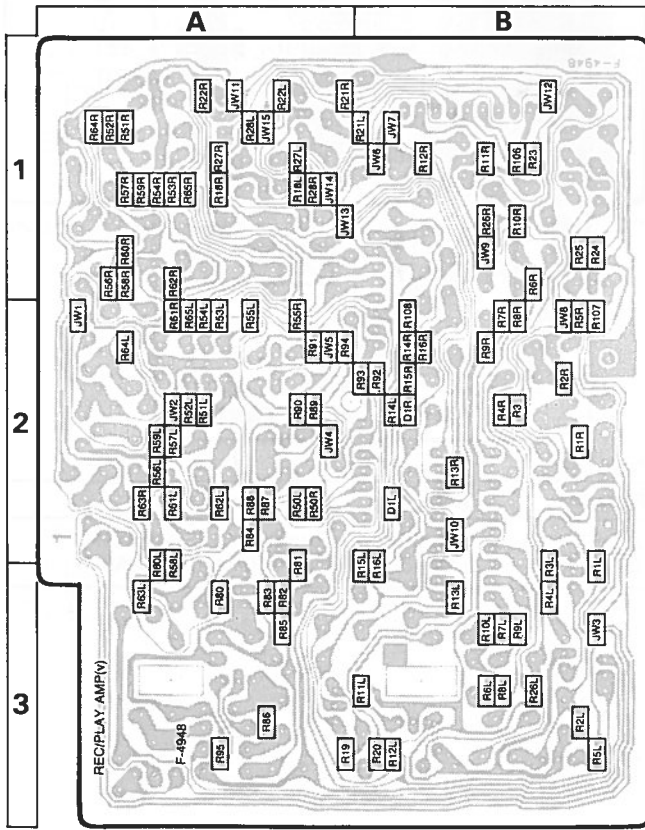
Component Side



Parts List

Parts No.	Stock No.	Description
• Transistor		
vQ1	46581701	2SC1845
vQ2	46581701	2SC1845
vQ3	46359801	2SC2001
vQ4	or 48055901	2SD1468S
	46367101	2SC2603
vQ5	or 46367301	2SC2458
	or 48058801	2SC1740S
vQ6	46367101	2SC2603
	or 46367301	2SC2458
vQ7	or 48058801	2SC1740S
	46719800	DTA124ES
vQ8	46719900	DTC124
	46367101	2SC2603
vQ9	or 46367301	2SC2458
	or 48058801	2SC1740S
vQ10	46367101	2SC2603
	or 46367301	2SC2458
vQ11	or 48058801	2SC1740S
	46367101	2SC2603
vQ12	or 46367301	2SC2458
	or 48058801	2SC1740S
vQ13	46367101	2SC2603
	or 46367301	2SC2458
vQ14	or 48058801	2SC1740S
	46367101	2SC2603
vQ15	or 46367301	2SC2458
	or 48058801	2SC1740S
vQ16	46614101	2SC3243
	46367101	2SC2603
vQ17	or 46367301	2SC2458
	or 48058801	2SC1740S
vQ18	46367101	2SC2603
	or 46367301	2SC2458
vQ19	or 48058801	2SC1740S
	48061801	2SC3244
vQ20	46367101	2SC2603
	or 46367301	2SC2458
vQ21	or 48058801	2SC1740S
	46367101	2SC2603
vQ22	or 46367301	2SC2458
	or 48058801	2SC1740S
vQ23	46367101	2SC2603
	or 46367301	2SC2458
vQ24	or 48058801	2SC1740S
	46367101	2SC2603
vQ25	or 46367301	2SC2458
	or 48058801	2SC1740S
vQ26	46367001	2SA1115
	or 46392001	2SA1175
vQ27	or 48058601	2SA933S
	46367001	2SA1115
vQ28	or 46392001	2SA1175
	or 48058601	2SA933S
vQ29	46367101	2SC2603
	or 46367301	2SC2458
vQ30	or 48058801	2SC1740S
	46367101	2SC2603
vQ31	or 46367301	2SC2458
	or 48058801	2SC1740S
vQ32	46367101	2SC2603
	or 46367301	2SC2458
vQ33	or 48058801	2SC1740S
	46362100	M51161P
• IC		
vIC1	46362100	M51161P
• Diode		
vD1	46086000	1S1588TP-3
	or 46852000	RLS-73 (Chip)
vD2	03111600	1S2473
• Zener Diode		
vDZ50	46111100	05Z5.1-X
	or 46111200	05Z5.1-Y
	or 46111300	05Z5.1-Z

Pattern Side < Chip Parts >



to be continued ▶

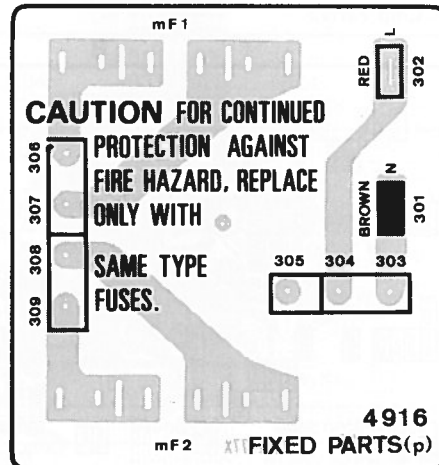
Parts List <F-4948>

Parts No.	Stock No.	Description
vDZ51	46111100	05Z5.1-X
	or 46111200	05Z5.1-Y
	or 46111300	05Z5.1-Z
vDZ52	46111100	05Z5.1-X
	or 46111200	05Z5.1-Y
	or 46111300	05Z5.1-Z
vDZ80	46109400	05Z3.0-Y
vJW1	46741100	Cross Conductor (Chip)
vJW2	46741100	Cross Conductor (Chip)
vJW3	46741100	Cross Conductor (Chip)
vJW4	46741100	Cross Conductor (Chip)
vJW5	46741100	Cross Conductor (Chip)
vJW6	46741100	Cross Conductor (Chip)
vJW7	46741100	Cross Conductor (Chip)
vJW8	46741100	Cross Conductor (Chip)
vJW9	46741100	Cross Conductor (Chip)
vJW10	46741100	Cross Conductor (Chip)
vJW11	46741100	Cross Conductor (Chip)
vJW12	46741100	Cross Conductor (Chip)
vJW13	46741100	Cross Conductor (Chip)
vJW14	46741100	Cross Conductor (Chip)
vJW15	46741100	Cross Conductor (Chip)
vR1	46742800	10Ω 1/8W Chip R.
vR2	46751800	56kΩ 1/8W Chip R.
vR3	46750400	15kΩ 1/8W Chip R.
vR4	46748800	3.3kΩ 1/8W Chip R.
vR5	46748400	2.2kΩ 1/8W Chip R.
vR6	46746600	390Ω 1/8W Chip R.
vR7	46748400	2.2kΩ 1/8W Chip R.
vR8	46752600	120kΩ 1/8W Chip R.
vR9	46750400	15kΩ 1/8W Chip R.
vR10	46746200	270Ω 1/8W Chip R.
vR11	46753200	220kΩ 1/8W Chip R.
vR12	46750800	22kΩ 1/8W Chip R.
vR13	46744600	56Ω 1/8W Chip R.
vR14	46748400	2.2kΩ 1/8W Chip R.
vR15	46747400	820Ω 1/8W Chip R.
vR16	46746200	270Ω 1/8W Chip R.
vR18	46749300	5.1kΩ 1/8W Chip R.
vR19	46750800	22kΩ 1/8W Chip R.
vR20	46748400	2.2kΩ 1/8W Chip R.
vR21	46749200	4.7kΩ 1/8W Chip R.
vR22	46753200	220kΩ 1/8W Chip R.
vR23	46747600	1kΩ 1/8W Chip R.
vR24	46750800	22kΩ 1/8W Chip R.
vR26	46750000	10kΩ 1/8W Chip R.
vR27	46749200	4.7kΩ 1/8W Chip R.
vR28	46750000	10kΩ 1/8W Chip R.
vR29	46750800	22kΩ 1/8W Chip R.
vR50	46749200	4.7kΩ 1/8W Chip R.
vR51	46749000	3.9kΩ 1/8W Chip R.
vR52	46749800	8.2kΩ 1/8W Chip R.
vR53	46750000	10kΩ 1/8W Chip R.
vR54	46750000	10kΩ 1/8W Chip R.
vR55	46749200	4.7kΩ 1/8W Chip R.
vR56	46750000	10kΩ 1/8W Chip R.
vR57	46749800	8.2kΩ 1/8W Chip R.
vR58	46754400	680kΩ 1/8W Chip R.
vR59	46753400	270kΩ 1/8W Chip R.
vR60	46750400	15kΩ 1/8W Chip R.
vR61	46747600	1kΩ 1/8W Chip R.
vR62	46744400	47Ω 1/8W Chip R.
vR63	46748400	2.2kΩ 1/8W Chip R.
vR64	46749600	6.8kΩ 1/8W Chip R.
vR65	46750000	10kΩ 1/8W Chip R.
vR80	46750000	10kΩ 1/8W Chip R.
vR81	46747200	680Ω 1/8W Chip R.
vR82	46747200	680Ω 1/8W Chip R.
vR83	46749200	4.7kΩ 1/8W Chip R.
vR84	46750800	22kΩ 1/8W Chip R.
vR85	46742800	10Ω 1/8W Chip R.
vR86	46750000	10kΩ 1/8W Chip R.

Parts No.	Stock No.	Description
vR87	46749800	8.2kΩ 1/8W Chip R.
vR88	46748800	3.3kΩ 1/8W Chip R.
vR89	46750800	22kΩ 1/8W Chip R.
vR90	46750800	22kΩ 1/8W Chip R.
vR91	46752400	100kΩ 1/8W Chip R.
vR92	46748400	2.2kΩ 1/8W Chip R.
vR93	46748400	2.2kΩ 1/8W Chip R.
vR94	46752400	100kΩ 1/8W Chip R.
vR95	46742000	4.7Ω 1/8W Chip R.
vR106	46747200	680Ω 1/8W Chip R.
vR107	46750800	22kΩ 1/8W Chip R.
vC19	46710800	10μF 16V E.C.
vC20	46710800	10μF 16V E.C.
vC84	46657000	3900pF 100V F.C.
vFL50	42904400	Peaking Coil
vL1	48121500	Inductor 2.7mH
vL80	46362200	Bias OSC Coil
vVR1	48078400	470Ω S.V.R., Pre PLAY Level Adj.
vVR2	48079600	47kΩ S.V.R., REC Level Adj.
vVR3	48079600	47kΩ S.V.R., METAL REC Level Adj.
vVR50	48079800	100kΩ S.V.R., Bias Adj.

6-4. F-4916 Fuse Board

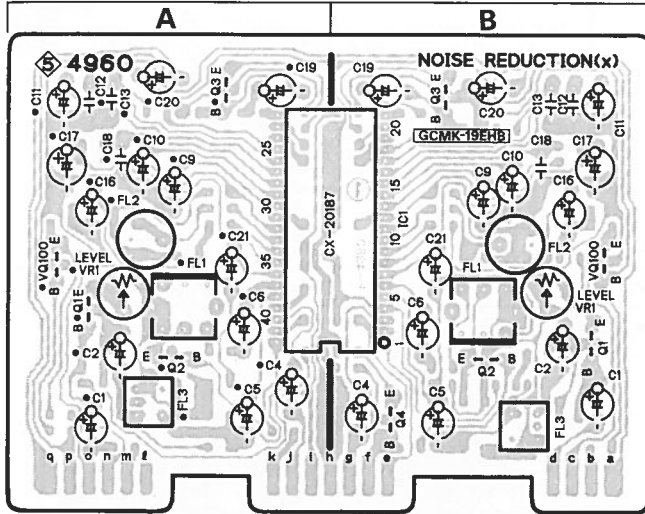
Component Side



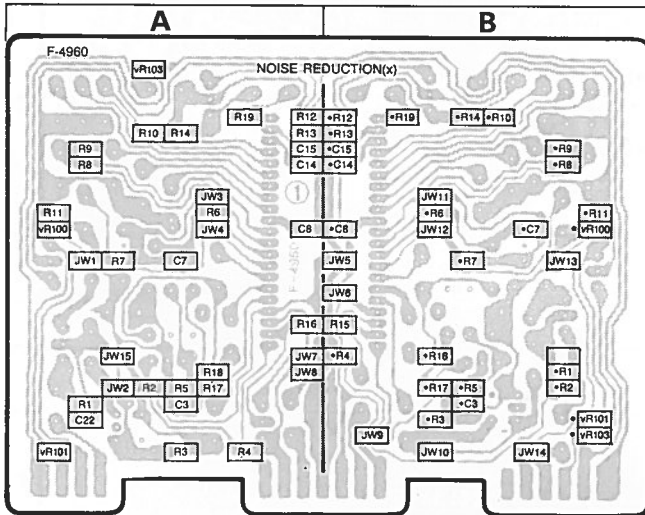
Parts List

Parts No.	Stock No.	Description
△mF1	07184600	Fuse 800mA (EU,BS,AS)
△mF2	07184300	Fuse 400mA (EU,BS,AS)

6-5. F-4960 Noise Reduction Board (Stock No. 00884701)
Component Side



Pattern Side <Chip Parts>

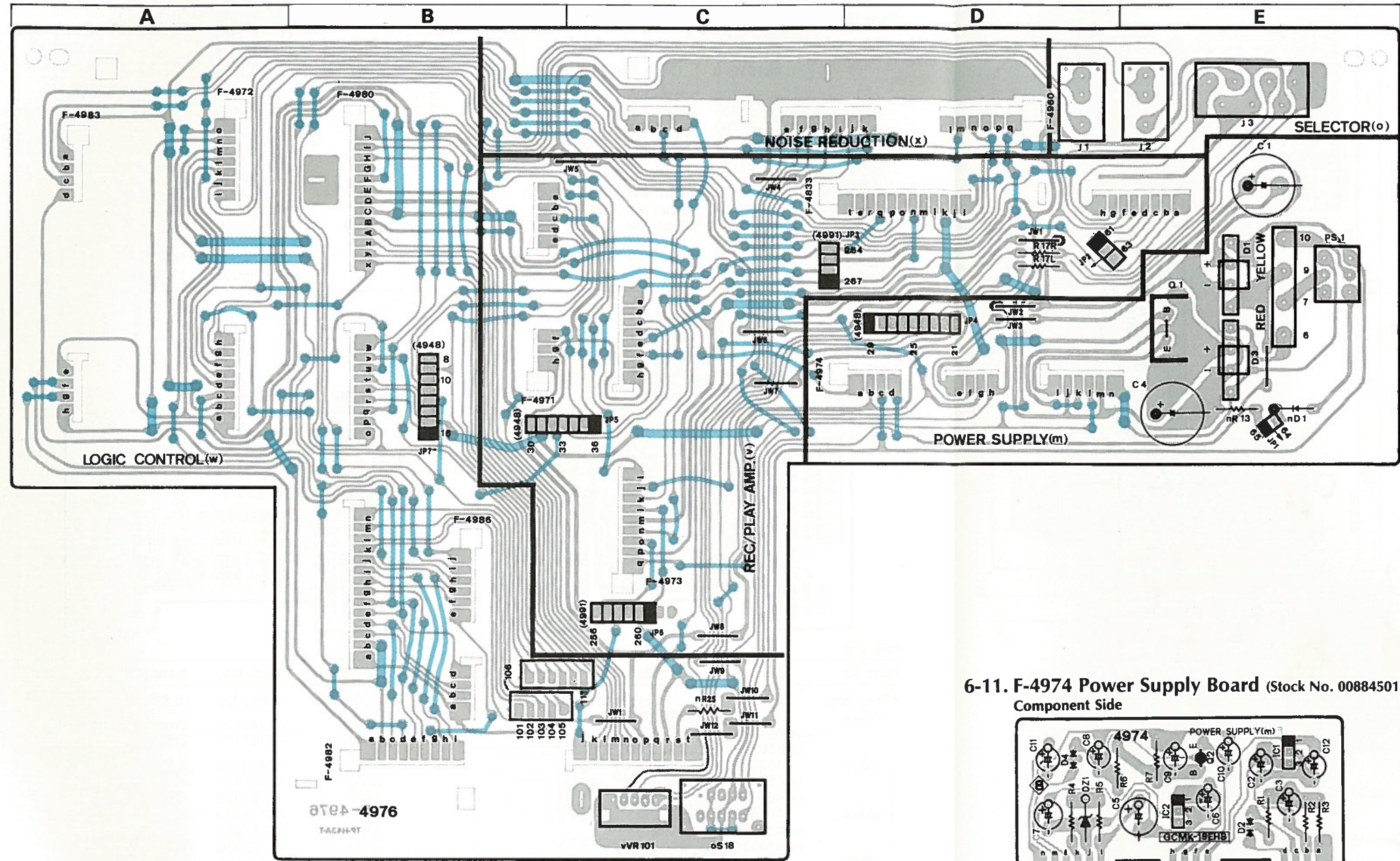


•Note: On this circuit board, the right channel is specified by "●" mark on top of the parts No.

Parts List

Parts No.	Stock No.	Description
•Transistor		
xQ1	46367101	2SC2603
	or 46367301	2SC2458
	or 48058801	2SC1740S
xQ2	46367101	2SC2603
	or 46367301	2SC2458
	or 48058801	2SC1740S
xQ3	46367101	2SC2603
	or 46367301	2SC2458
	or 48058801	2SC1740S
xQ4	46719900	DTC124
•IC		
xIC1	48179900	CX-20187
xJW1	46741100	Cross Conductor (Chip)
xJW3	46741100	Cross Conductor (Chip)
xJW4	46741100	Cross Conductor (Chip)
xJW5	46741100	Cross Conductor (Chip)
xJW6	46741100	Cross Conductor (Chip)
xJW7	46741100	Cross Conductor (Chip)
xJW8	46741100	Cross Conductor (Chip)
xJW9	46741100	Cross Conductor (Chip)
xJW11	46741100	Cross Conductor (Chip)
xJW12	46741100	Cross Conductor (Chip)
xJW13	46741100	Cross Conductor (Chip)
xJW14	46741100	Cross Conductor (Chip)
xJW15	46741100	Cross Conductor (Chip)
xR1	46753200	220kΩ 1/8W Chip R.
xR2	46748400	2.2kΩ 1/8W Chip R.
xR3	46749400	5.6kΩ 1/8W Chip R.
xR4	46749200	4.7kΩ 1/8W Chip R.
xR5	46754800	1MΩ 1/8W Chip R.
xR6	46746700	430Ω 1/8W Chip R.
xR7	46748500	2.4kΩ 1/8W Chip R.
xR8	46749300	5.1kΩ 1/8W Chip R.
xR9	46749600	6.8kΩ 1/8W Chip R.
xR10	46747200	680Ω 1/8W Chip R.
xR11	46751600	47kΩ 1/8W Chip R.
xR12	46748600	2.7kΩ 1/8W Chip R.
xR13	46747700	1.1kΩ 1/8W Chip R.
xR14	46753200	220kΩ 1/8W Chip R.
xR15	46752400	100kΩ 1/8W Chip R.
xR16	46750800	22kΩ 1/8W Chip R.
xR17	46749400	5.6kΩ 1/8W Chip R.
xR18	46748600	2.7kΩ 1/8W Chip R.
xR19	46745200	100Ω 1/8W Chip R.
xR20	46748600	2.7kΩ 1/8W Chip R.
xR21	46748400	2.2kΩ 1/8W Chip R.
xR22	46748400	2.2kΩ 1/8W Chip R.
xC3	46794800	2700pF 50V Chip C.
xC7	46779900	560pF 50V Chip C.
xC8	46795100	4700pF 50V Chip C.
xC14	46795300	6800pF 50V Chip C.
xC15	46795500	10000pF 50V Chip C.
xC22	46778100	100pF 50V Chip C.
xFL1	46177500	DOLBY Filter
	or 46177501	DOLBY Filter
xFL2	48193300	DOLBY Filter
xFL3	48193900	Trap Filter (85kHz)
xVR1	46633700	1kΩ S.V.R., PLAY Level Adj.

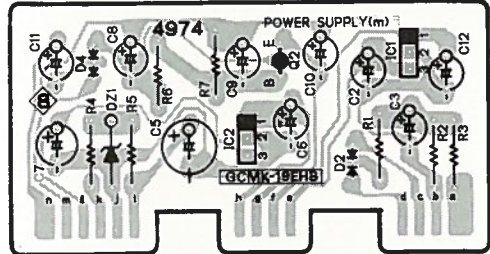
6-10. F-4976 Main Wiring Board (Stock No. 00883601)
Component Side



Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
•Transistor			oJ3	46371500	4P Terminal Board, LINE IN LINE OUT
ΔmQ1	03083901	2SD313AL	ΔpS1	48172700	Push SW., POWER
•Diode			•Diode		
ΔmD1	03117000	RB152-LFF	vD601	03111600	1S2473
Δ	or 46273600	DBB10-B	or 03111800	1S1588	
ΔmD3	03117000	RB152-LFF	vD602	03111600	1S2473
Δ	or 46273600	DBB10-B	or 03111800	1S1588	
mC12	00305400	10μF 25V E.B.	vD603	03111600	1S2473
•Diode			or 03111800	1S1588	
ΔnD1	03117600	1S2473T77	ΔvD606	03111600	1S2473
Δ	or 46086000	1S1588TP-3	Δ	or 03111800	1S1588
oS18	48126800	Slide SW., DOLBY NR	•Zener Diode		
oJ1	46547200	Jack, COMPU SELECTOR	vDZ601	46099100	05Z3.0-X
oJ2	46547200	Jack, COMPU EDIT	or 46099200	05Z3.0-Y	
			or 46099300	05Z3.0-Z	
			vVR101	48201700	50kΩ V.R., FADER

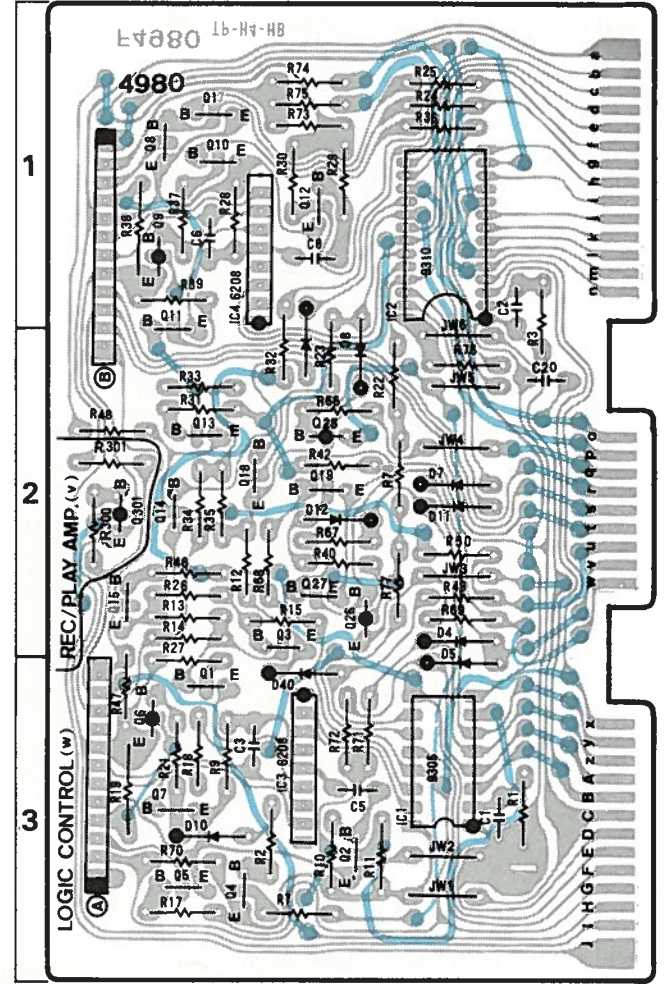
6-11. F-4974 Power Supply Board (Stock No. 00884501)
Component Side



Parts List

Parts No.	Stock No.	Description
•Transistor		
mQ2	46367001	2SA1115
or	46392001	2SA1175
•IC		
ΔmIC1	46144200	NJM78M05A
Δ	or 46359400	L78N05
ΔmIC2	46144500	NJM78M09A
Δ	or 46499800	L78N09
•Diode		
ΔmD2	46464000	MC921
mD4	46836900	MC931
•Zener Diode		
mDZ1	46113800	05Z12-X
or	46113900	05Z12-Y

6-12. F-4980 Logic Control Board (Stock No. 00883901)
Component Side

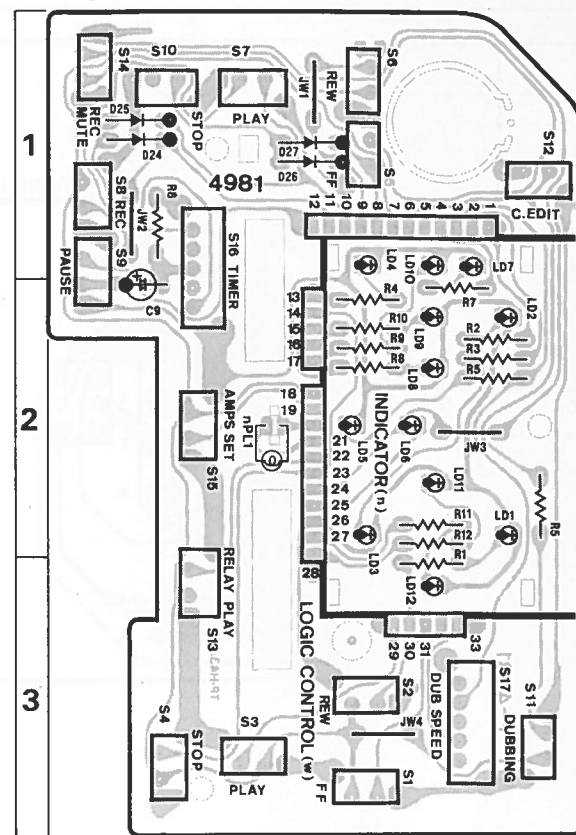


Parts List <F-4980>

Parts No.	Stock No.	Description
wQ11	46614101	2SC3243
wQ12	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ13	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ14	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ15	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ17	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ18	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ19	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ26	46834200	DTA144ES
wQ27	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ28	46367001	2SA1115
	or 46392001	2SA1175
	or 48058601	2SA933S
•IC		
wIC1	48003700	TC9305P-010
wIC2	48003800	TC9310N-055
wIC3	46149600	BA6208
wIC4	46149600	BA6208
•Diode		
wD4	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD5	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD7	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD8	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD10	48177000	11DQ-03
	or 48177100	11DQ-04
wD11	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD12	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD13	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD14	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD20	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD40	03117600	1S2473T77
	or 46086000	1S1588TP-3
ΔwR19	46249200	82Ω 1W N.I.R.
ΔwR27	46228300	27Ω 1/2W N.I.R.
ΔwR38	46249200	82Ω 1W N.I.R.
ΔwR39	46228300	27Ω 1/2W N.I.R.
wC1	46695400	0.012μF 50V F.C.
wC2	46695400	0.012μF 50V F.C.

6-13.F-4981 Operation Control SW. Board

Component Side (Stock No. 00884001)



Parts List

Parts No.	Stock No.	Description
•LED		
nLD1	07250900	TLG-123A
	or 46470300	SEL2410E
	or 48189200	GL-3EG7
nLD2	07250900	TLG-123A
	or 46470300	SEL2410E
	or 48189200	GL-3EG7
nLD3	07251000	TLY-123
	or 46470400	SEL2910A
	or 48189100	GL-3HY57
nLD4	46176900	TLS-123
	or 46470200	SEL2210S
	or 48189000	GL-3HD7
nLD5	46176900	TLS-123
	or 46470200	SEL2210S
	or 48189000	GL-3HD7
nLD6	46176900	TLS-123
	or 46470200	SEL2210S
	or 48189000	GL-3HD7
nLD7	46176900	TLS-123
	or 46470200	SEL2210S
	or 48189000	GL-3HD7
nLD8	46176900	TLS-123
	or 46470200	SEL2210S
	or 48189000	GL-3HD7
nLD9	07251000	TLY-123
	or 46470400	SEL2910A
	or 48189100	GL-3HY57
nLD10	07250900	TLG-123A
	or 46470300	SEL2410E
	or 48189200	GL-3EG7
nLD11	07250900	TLG-123A
	or 46470300	SEL2410E
	or 48189200	GL-3EG7
nLD12	46176900	TLS-123
	or 46470200	SEL2210S
	or 48189000	GL-3HD7

Parts List <F-4981>

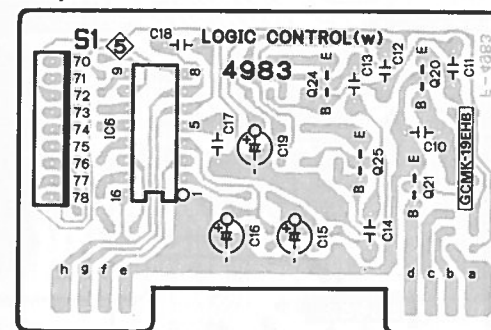
Parts No.	Stock No.	Description
nLD13	48189000	GL-3HD7
nPL1	48191900	12V 0.15A Pilot Lamp
oS1	46396700	Push SW., F.FWD (a-side)
oS2	46396700	Push SW., REW (a-side)
oS3	46396700	Push SW., PLAY (a-side)
oS4	46396700	Push SW., STOP (a-side)
oS5	46396700	Push SW., F.FWD (b-side)
oS6	46396700	Push SW., REW (b-side)
oS7	46396700	Push SW., PLAY (b-side)
oS8	46396700	Push SW., REC (b-side)
oS9	46396700	Push SW., PAUSE (b-side)
oS10	46396700	Push SW., STOP (b-side)
oS11	46396700	Push SW., DUBBING
oS12	46396700	Push SW., COMPU EDIT

Parts No.	Stock No.	Description
oS13	46396700	Push SW., RELAY PLAY
oS14	46396700	Push SW., REC MUTE (b-side)
oS15	46396700	Push SW., AMPS
oS16	46178400	Slide SW., TIMER
oS17	46178400	Slide SW., DUBBING SPEED

Parts No.	Stock No.	Description
•Diode		
wD24	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD25	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD26	03117600	1S2473T77
	or 46086000	1S1588TP-3
wD27	03117600	1S2473T77
	or 46086000	1S1588TP-3

6-14.F-4983 AMPS Board (Stock No. 00884301)

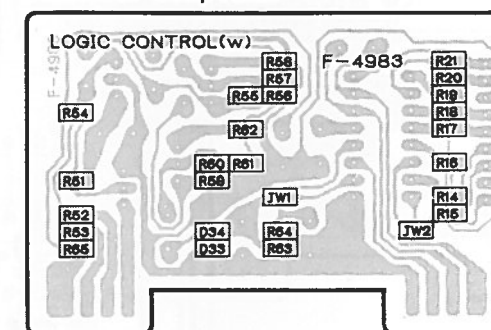
Component Side



Parts List

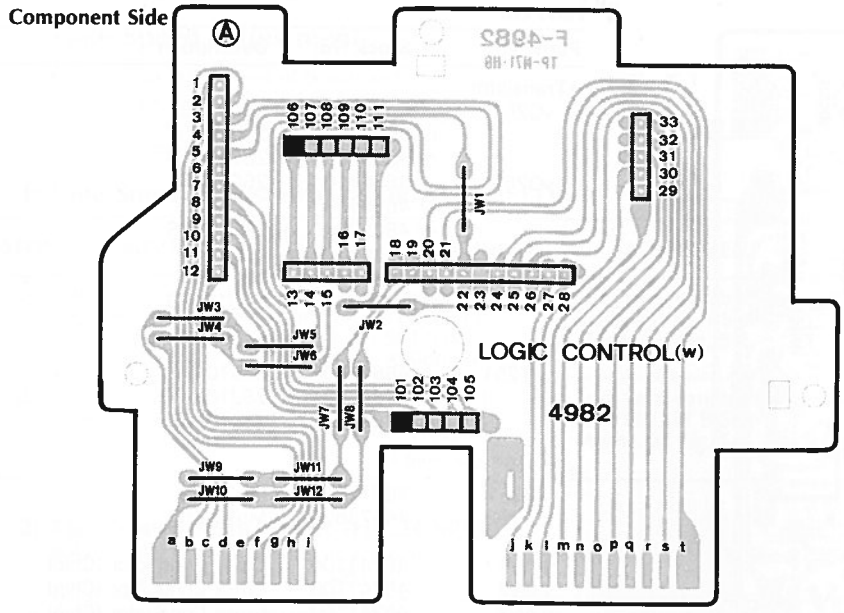
Parts No.	Stock No.	Description
•Transistor		
wQ20	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ21	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ24	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
wQ25	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
•IC		
wIC6	46369800	TC9138AP
•Diode		
wD33	46852000	RLS-73 (Chip)

Pattern Side <Chip Parts>

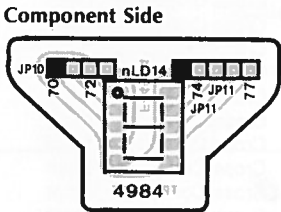


Parts No.	Stock No.	Description
wD34	46852000	RLS-73 (Chip)
wJW1	46741100	Cross Conductor (Chip)
wJW2	46741100	Cross Conductor (Chip)
wR51	46749200	4.7kΩ 1/8W Chip R.
wR52	46751600	47kΩ 1/8W Chip R.
wR53	46751600	47kΩ 1/8W Chip R.
wR54	46749200	4.7kΩ 1/8W Chip R.
wR55	46754400	680kΩ 1/8W Chip R.
wR56	46753000	180kΩ 1/8W Chip R.
wR57	46750000	10kΩ 1/8W Chip R.
wR58	46747000	560Ω 1/8W Chip R.
wR59	46753000	180kΩ 1/8W Chip R.
wR60	46754400	680kΩ 1/8W Chip R.
wR61	46750000	10kΩ 1/8W Chip R.
wR62	46747000	560Ω 1/8W Chip R.
wR63	46754000	470kΩ 1/8W Chip R.
wR64	46752000	68kΩ 1/8W Chip R.
wR65	46747600	1kΩ 1/8W Chip R.

6-15. F-4982 Control SW. Wiring Board



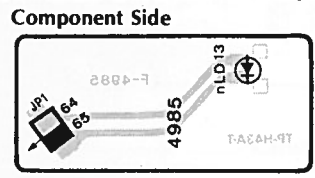
6-16. F-4984 AMPS Indicator Board



Parts List

Parts No.	Stock No.	Description
•LED nLD14	46917700	GL-8P03D

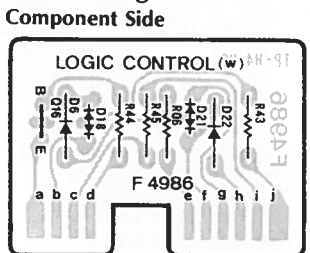
6-17. F-4985 STAND BY Indicator Board



Parts List

Parts No.	Stock No.	Description
•LED nLD13	46176900 or 46470200	TLS-123 SEL2210S

6-18. F-4986 Logic Control Sub Board

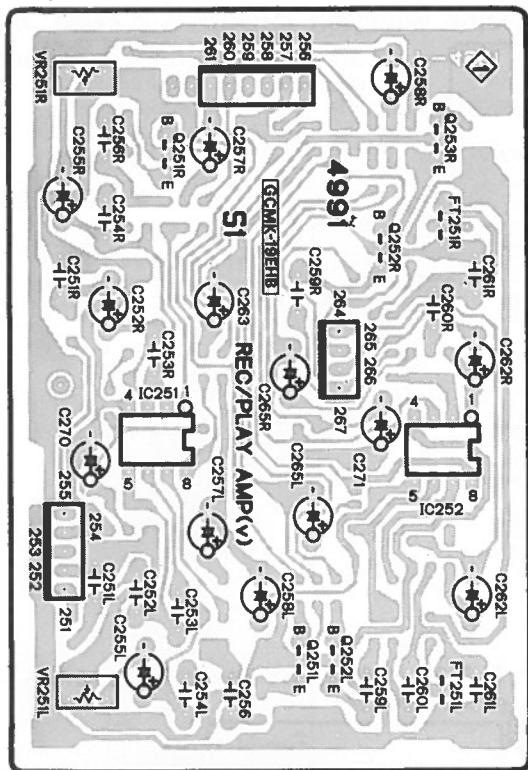


Parts List

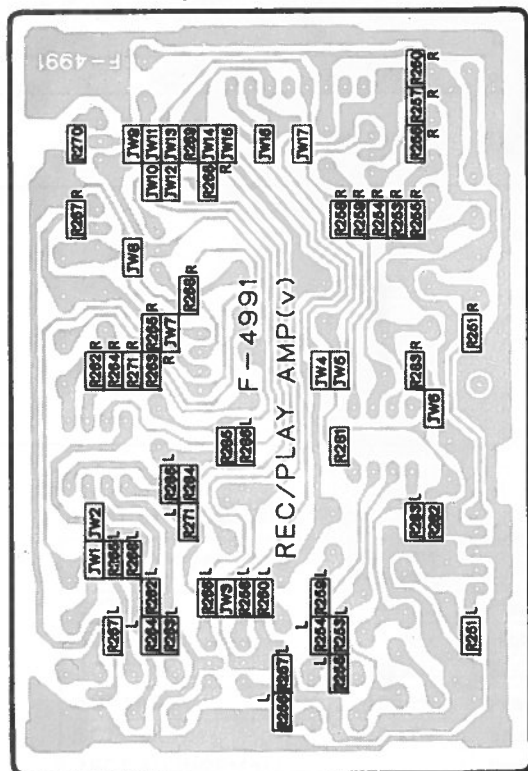
Parts No.	Stock No.	Description
•Transistor wQ16	46367101 or 46391901 or 48058801	2SC2603 2SC2785 2SC1740S
•Diode wD6	03117600 or 46086000	1S2473T77 1S1588TP-3
wD18	46463800	MC911
wD21	46463800	MC911
wD22	03117600 or 46086000	1S2473T77 1S1588TP-3

6-19. F-4991 a-Side PLAY & DUBBING Amp. Board (Stock No. 00884901)

Component Side



Pattern Side < Chip Parts >

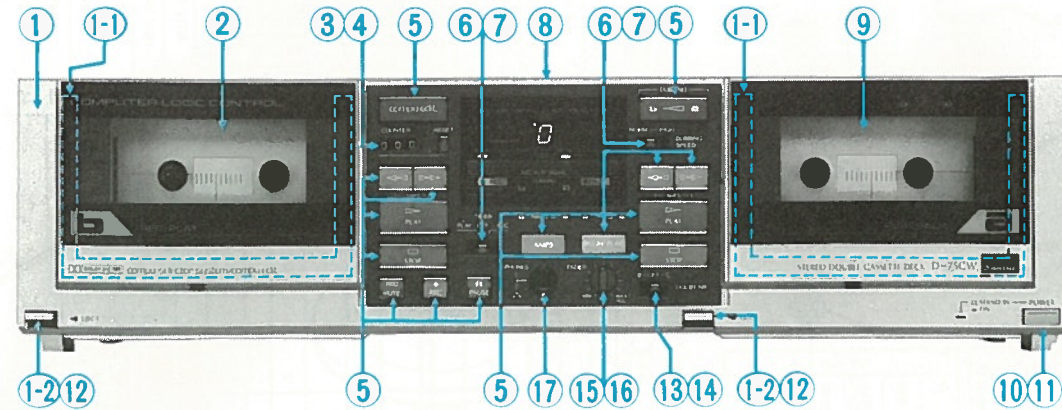


Parts List

Parts No.	Stock No.	Description
• Transistor		
vQ251	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
vQ252	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
vQ253	46367101	2SC2603
	or 46391901	2SC2785
	or 48058801	2SC1740S
• FET		
vFT251	46643800	2SJ103-Y
	or 46643801	2SJ103-GR
	or 46643802	2SJ103-BL
• IC		
vIC251	46673800	M5218P
vIC252	46673800	M5218P
vJW1	46741100	Cross Conductor (Chip)
vJW2	46741100	Cross Conductor (Chip)
vJW3	46741100	Cross Conductor (Chip)
vJW4	46741100	Cross Conductor (Chip)
vJW5	46741100	Cross Conductor (Chip)
vJW6	46741100	Cross Conductor (Chip)
vJW7	46741100	Cross Conductor (Chip)
vJW8	46741100	Cross Conductor (Chip)
vJW9	46741100	Cross Conductor (Chip)
vJW10	46741100	Cross Conductor (Chip)
vJW11	46741100	Cross Conductor (Chip)
vJW12	46741100	Cross Conductor (Chip)
vJW13	46741100	Cross Conductor (Chip)
vJW14	46741100	Cross Conductor (Chip)
vJW15	46741100	Cross Conductor (Chip)
vJW16	46741100	Cross Conductor (Chip)
vJW17	46741100	Cross Conductor (Chip)
vR251	46742800	10Ω 1/8W Chip R.
vR253	46752600	120kΩ 1/8W Chip R.
vR254	46748400	2.2kΩ 1/8W Chip R.
vR255	46746600	390Ω 1/8W Chip R.
vR256	46746200	270Ω 1/8W Chip R.
vR257	46753200	220kΩ 1/8W Chip R.
vR258	46750000	10kΩ 1/8W Chip R.
vR259	46747600	1kΩ 1/8W Chip R.
vR260	46752400	100kΩ 1/8W Chip R.
vR261	46749400	5.6kΩ 1/8W Chip R.
vR262	46751800	56kΩ 1/8W Chip R.
vR263	46746800	470Ω 1/8W Chip R.
vR264	46752400	100kΩ 1/8W Chip R.
vR265	46750800	22kΩ 1/8W Chip R.
vR266	46750800	22kΩ 1/8W Chip R.
vR267	46754000	470kΩ 1/8W Chip R.
vR268	46752400	100kΩ 1/8W Chip R.
vR269	46749200	4.7kΩ 1/8W Chip R.
vR270	46750800	22kΩ 1/8W Chip R.
vR271	46747600	1kΩ 1/8W Chip R.
vR281	46750000	10kΩ 1/8W Chip R.
vR282	46750000	10kΩ 1/8W Chip R.
vR283	46751800	56kΩ 1/8W Chip R.
vR284	46750000	10kΩ 1/8W Chip R.
vR285	46750000	10kΩ 1/8W Chip R.
vR286	46752000	68kΩ 1/8W Chip R.
vVR251	48078400	470Ω S.V.R., PLAY Level Adj.
	or 48199200	500Ω (B) S.V.R., PLAY Level Adj.

7. OTHER PARTS

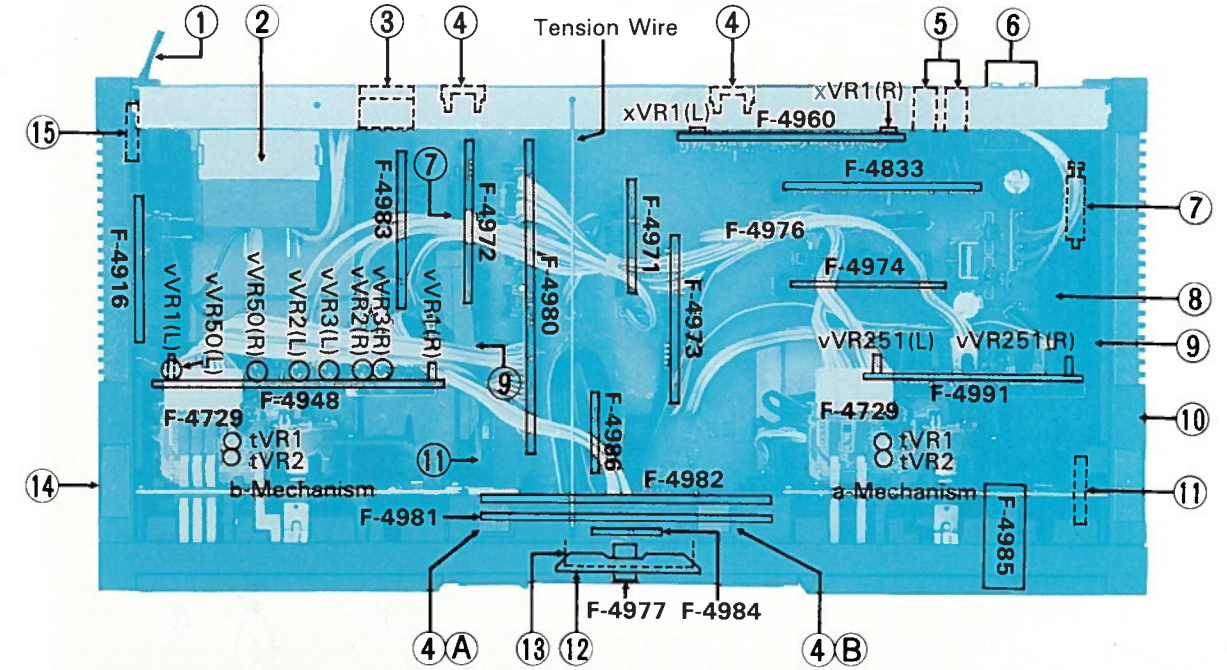
7-1. Front View



Parts List <Front View>

Parts No.	Stock No.	Description
1	47841800	Front Panel Ass'y for Silver Model
	47841900	Front Panel Ass'y for Black Model
1-1	47678700	Cassette Holder Ass'y
1-2	47776110	EJECT Knob for Silver Model
	47776200	EJECT Knob for Black Model
2	47864200	b-Side Cassette Lid Ass'y for Silver Model
	47864300	b-Side Cassette Lid Ass'y for Black Model
3	48192200	Tape Counter
4	47843300	Counter Belt
5	46396700	Push SW., PLAY • <<< • >>> • STOP Compu Edit etc
6	47799800	Slide Knob, TIMER • DUBBING SPEED
7	46178400	Slide SW., TIMER • DUBBING SPEED
8	47823500	Bonnet for Silver Model
	47874700	Bonnet for Black Model
9	47864000	a-Side Cassette Lid Ass'y for Silver Model
	47864100	a-Side Cassette Lid Ass'y for Black Model
10	47747000	Push Knob, POWER for Silver Model
	47747100	Push Knob, POWER for Black Model
△ 11	48172700	Push SW., POWER
12	47673000	Spring, EJECT
13	47800700	Slide Knob, DOLBY NR
14	48126800	Slide SW., DOLBY NR
15	47742300	Knob, FADER
16	48201700	50kΩ (B) V.R., FADER
17	46265700	Jack, PHONES

7-2. Top View



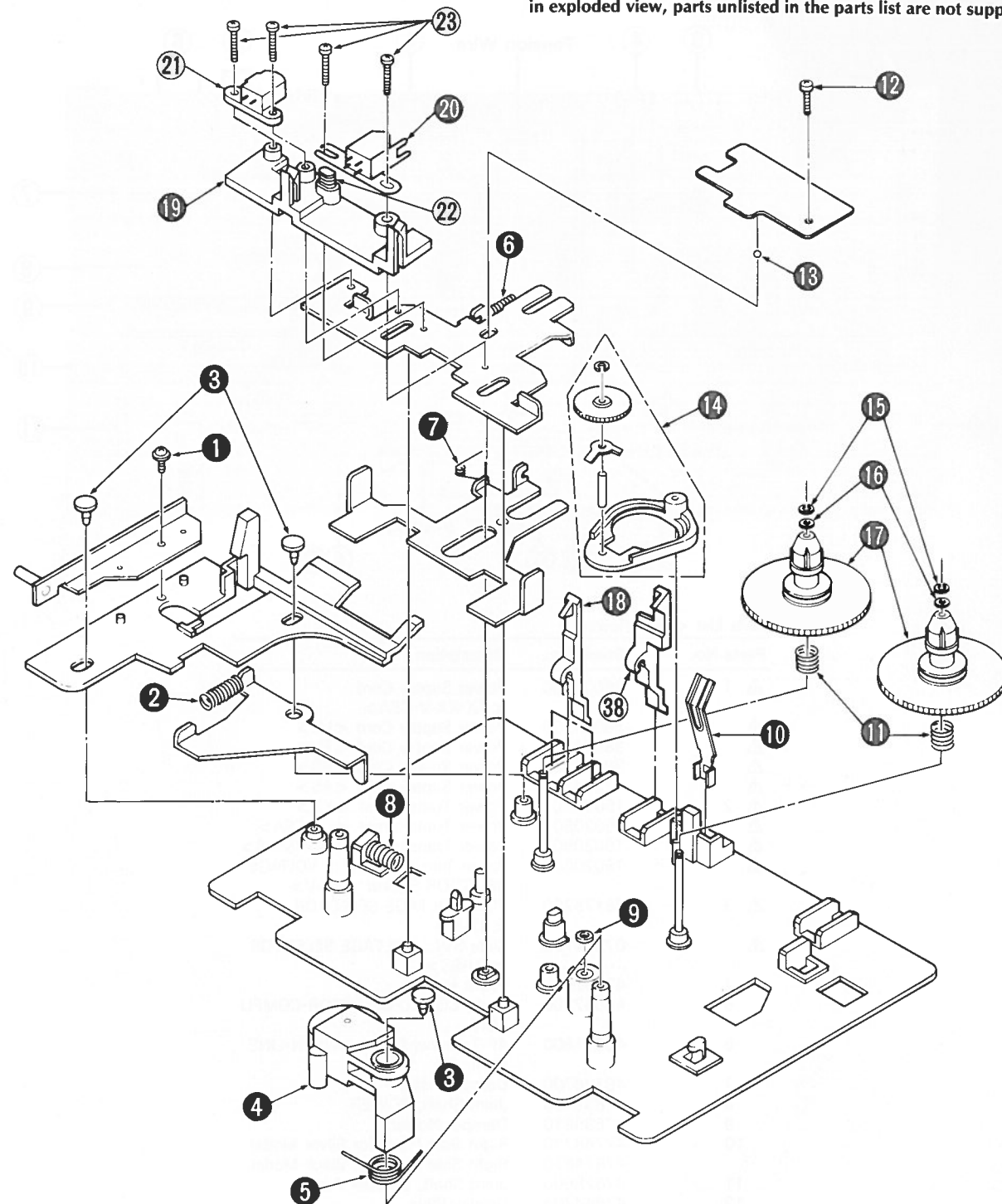
Parts List <Top View>

Parts No.	Stock No.	Description
△ 1	38005400	Power Supply Cord <XX•XX-V•CSA>
△	38004700	Power Supply Cord
△	38004500	Power Supply Cord <EU>
△	38004300	Power Supply Cord <BS>
△	07204200	Power Supply Cord <AS>
△ 2	15020501	Power Transformer <XX>
△	15020502	Power Transformer <UL•CSA>
△	15020505	Power Transformer <EU•BS•AS>
△	15020509	Power Transformer with VOLTAGE SELECTOR Socket <XX-V>
△ 3	48175200	Plug, VOLTAGE SELECTOR <XX-V>
△	07204700	Slide SW., VOLTAGE SELECTOR <EU•BS>
4	47252300	P.C.B Holder
5	46547200	Jack, COMPU SELECTOR • COMPU EDIT
6	46371500	4P Terminal Board, LINE IN • LINE OUT
7	48126700	Damper Ass'y
8	47839600	Joint Shaft, POWER
9	47685310	Damper Holder
10	47768710	Right Side Panel for Silver Model
	47874810	Right Side Panel for Black Model
11	47628500	Joint Shaft, Damper Ass'y
12	47844700	Display Plate
13	47844400	Illumination Plate
14	47768800	Left Side Panel for Silver Model
	47874900	Left Side Panel for Black Model
15	47157300	Power Supply Cord Cover

8. EXPLODED VIEW OF MECHANISM ASS'Y & PARTS LIST

8-1. Front View of Mechanism Chassis

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

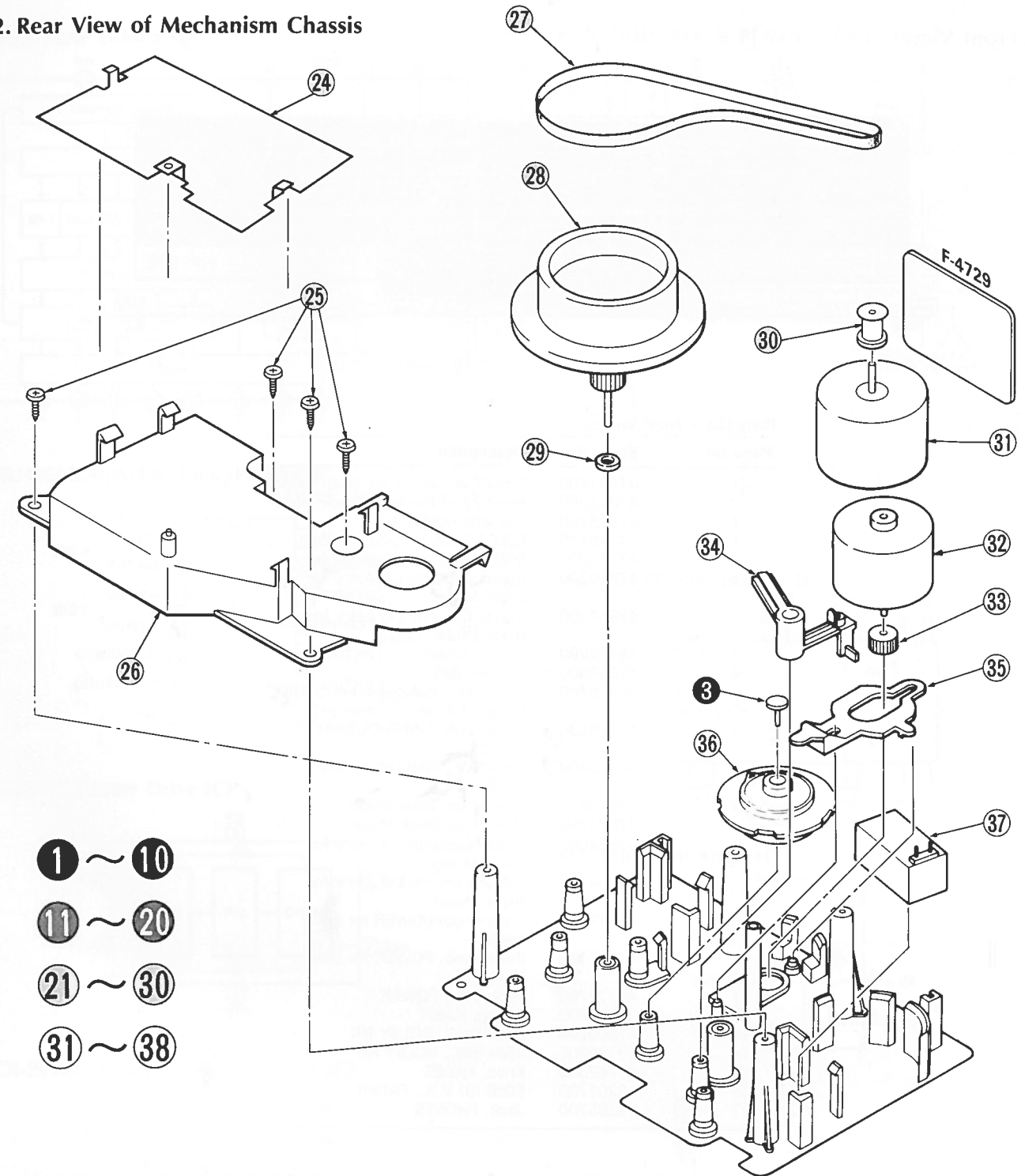


Parts List

Parts No.	Stock No.	Description
1	46267900	Tapping Screw, M3.0×8
2	47644500	Spring, eject
3	47420900	Plastic Tack
4	47281810	Pinch Roller Ass'y
5	47483100	Spring, pinch roller
6	47406200	Spring, head base
7	47405600	Spring, slide base
8	47668600	Spring, plunger solenoid
9	47404700	Washer, d = 2.5
10	47293510	Spring, half

Parts No.	Stock No.	Description
11	47709610	Spring, reel
12	13127800	Tapping Screw, M2×12
13	47404900	Steel Ball, φ2.0
14	47405000	Arm Ass'y
15	47404800	Washer, d = 1.6
16	47497100	Washer, d = 2.0
17	47835500	Reel Gear Ass'y
18	47723010	Sensor Arm (A)
19	47284110	Head Base
20	46920300	REC/PB Head

8-2. Rear View of Mechanism Chassis



- 1 ~ 10
- 11 ~ 20
- 21 ~ 30
- 31 ~ 38

Parts No.	Stock No.	Description
21	07997400	Erase Head <b-Mechanism>
	46867800	Dummy Head <a-Mechanism>
22	47406100	Spring azimuth
23	00420900	Binding Head Screw, M2×12
24		Shield Plate
25	46267800	Pan Head Tapping Screw, M3×8
26	47658030	Sub Chassis
27	47405200	Belt
28	47598100	Flywheel Ass'y
29	47404600	Washer, d = 2.5

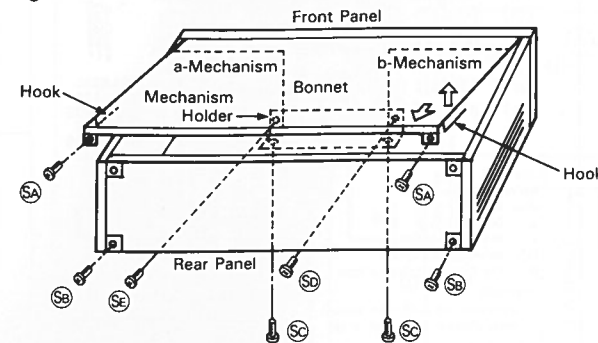
Parts No.	Stock No.	Description
30	47283100	Pully
31	46737600	Capstan Motor
32	46737500	Reel Motor
33	47293110	Gear, reel motor
34	47281610	Lock Arm
35	47293810	Arm (B)
36	47283830	Assist Gear
37	47292610	Plunger Solenoid
38	47292520	Sensor Arm B <b-Mechanism>

9. MAIN PARTS REPLACEMENT

A. Bonnet (See Fig. 9-1)

- 1) Remove two screws ⑤.
- 2) Pull the rear side of the bonnet remove the hooks and then remove bonnet.

Fig. 9-1

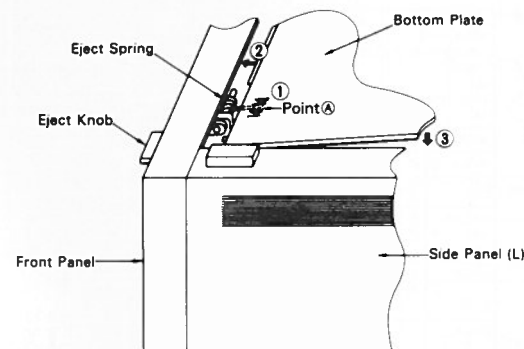


B. Bottom Plate

- 1) Remove four screws ⑤ ⑥. (See Fig. 9-1)
- 2) Pull the rear side of the bonnet and then remove it.

Note: Install the bottom plate after matching eject spring with point ① of bottom plate. (See Fig. 9-2)

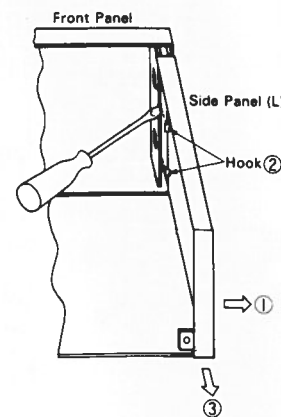
Fig. 9-2



C. Side Panel L (R) (See Fig. 9-3)

- 1) Remove bonnet and bottom plate.
- 2) Shift the position of the side panel L (R) 2.0cm in the arrow direction ①.
- 3) Remove the hooks ② of the side panel from front panel and then pull it the arrow direction ③ to remove the side panel L (R).

Fig. 9-3



D. a-Side Mechanism Ass'y

- 1) Remove the bonnet and bottom plate.
- 2) Pluck out two connectors from F-4991 board.
- 3) Extract one connector from the F-4729 board.
- 4) Remove the side panel R.
- 5) Remove the joint shaft from the groove of the damper holder. (See G. Damper Ass'y)
- 6) Loosen a screw ⑤ fixing Mechanism Holder. (See Fig. 9-1)
- 7) Press the EJECT knob to open the cassette holder.
- 8) Remove four screws fixing the mechanism ass'y.
- 9) Remove the mechanism ass'y.

E. b-Side Mechanism Ass'y

- 1) Remove the bonnet and the bottom plate.
- 2) Pluck out three connectors from F-4948 board.
- 3) Extract one connector from the F-4729 circuit board.
- 4) Remove the side panel L.
- 5) Remove the joint shaft from the groove of the damper holder. (See G. Damper Ass'y)
- 6) Loosen a screw ⑤ fixing Mechanism Holder. (See Fig. 9-1)
- 7) Pluck out P.C.B ① Holder. (See 7-2. Top View on Page 18)
- 8) Press the EJECT knob to open the cassette holder.
- 9) Remove four screws fixing the mechanism ass'y.
- 10) Draw out the mechanism ass'y.

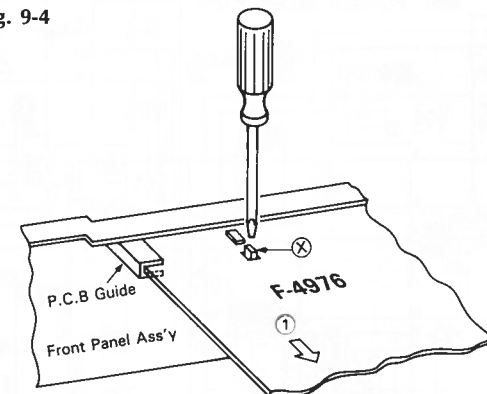
Note: To attach the mechanism ass'y, put the counter belt at the reel groove.

F. Front Panel Ass'y

- 1) Remove the bonnet and bottom plate.
- 2) Loosen two screws ⑤ and ⑥ fixing the mechanism holder.
- 3) Remove the side panel (L) and (R).
- 4) Remove tension wire.
- 5) Extract two P.C.B Holder ① and ②. (See 7-2. Top View on Page 18)
- 6) Pluck out F-4985 circuit board from front panel ass'y.
- 7) Remove FADER VOLUME knob.
- 8) Separate joint shaft (POWER) from power sw. on F-4976.
- 9) Push hook ③ of front panel ass'y and pull F-4976 circuit board arrow direction ① to remove it. (See Fig. 9-4)
- 10) Remove the mechanism ass'y and tape counter.

Note: As for precautions to be observed at the time of mounting, when mounting F-4976 circuit board, insert the circuit board into P.C.B guide and then push the hook ③.

Fig. 9-4



G. Damper Ass'y

- 1) Hold the damper holder to fix it, and push the damper ass'y to the arrow direction as Fig. 9-5, so that the damper ass'y is removed from the damper holder. (See Fig. 9-5)
- 2) Pinch the joint portion of the joint shaft and the damper ass'y, and remove the joint shaft from the groove of the damper holder after a little twist to the left. (See Fig. 9-6)
- 3) Turn up the damper end, to set the slit of the damper ass'y to the projection of the joint shaft. Then pull out the damper ass'y from the joint shaft. (See Fig. 9-7)

Fig. 9-5

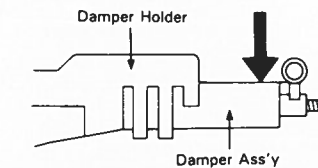


Fig. 9-6

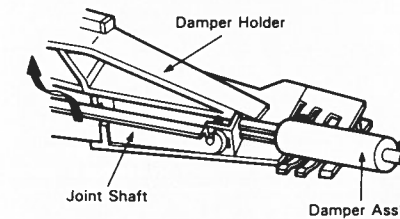
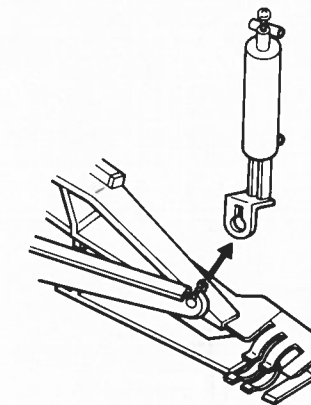


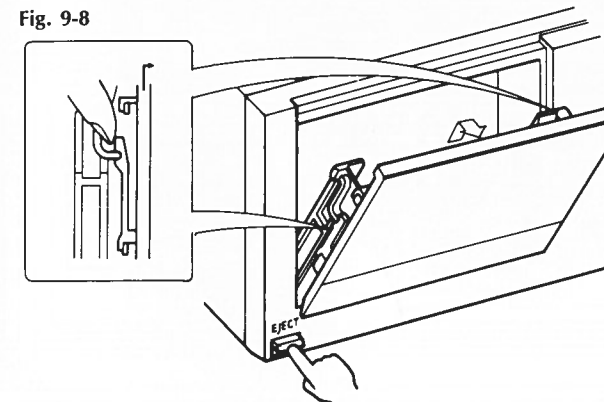
Fig. 9-7



H. Removal and Attachment of Lid Ass'y

Push EJECT Knob to open the cassette holder, push the parts locked at the left and right in the figure while pulling it upward, and remove the lid ass'y.

Fig. 9-8



I. Rec/PB Head ⑳

- 1) Remove the mechanism ass'y from set.
- 2) Unsolder head read wires.
- 3) Loosen two screws.

J. Pinch Roller Ass'y ㉑

- 1) Remove the mechanism ass'y from set.
- 2) Pull out the lock pin ③.
- 3) Take out the pinchroller ass'y.

K. Reel Gear Ass'y ㉒

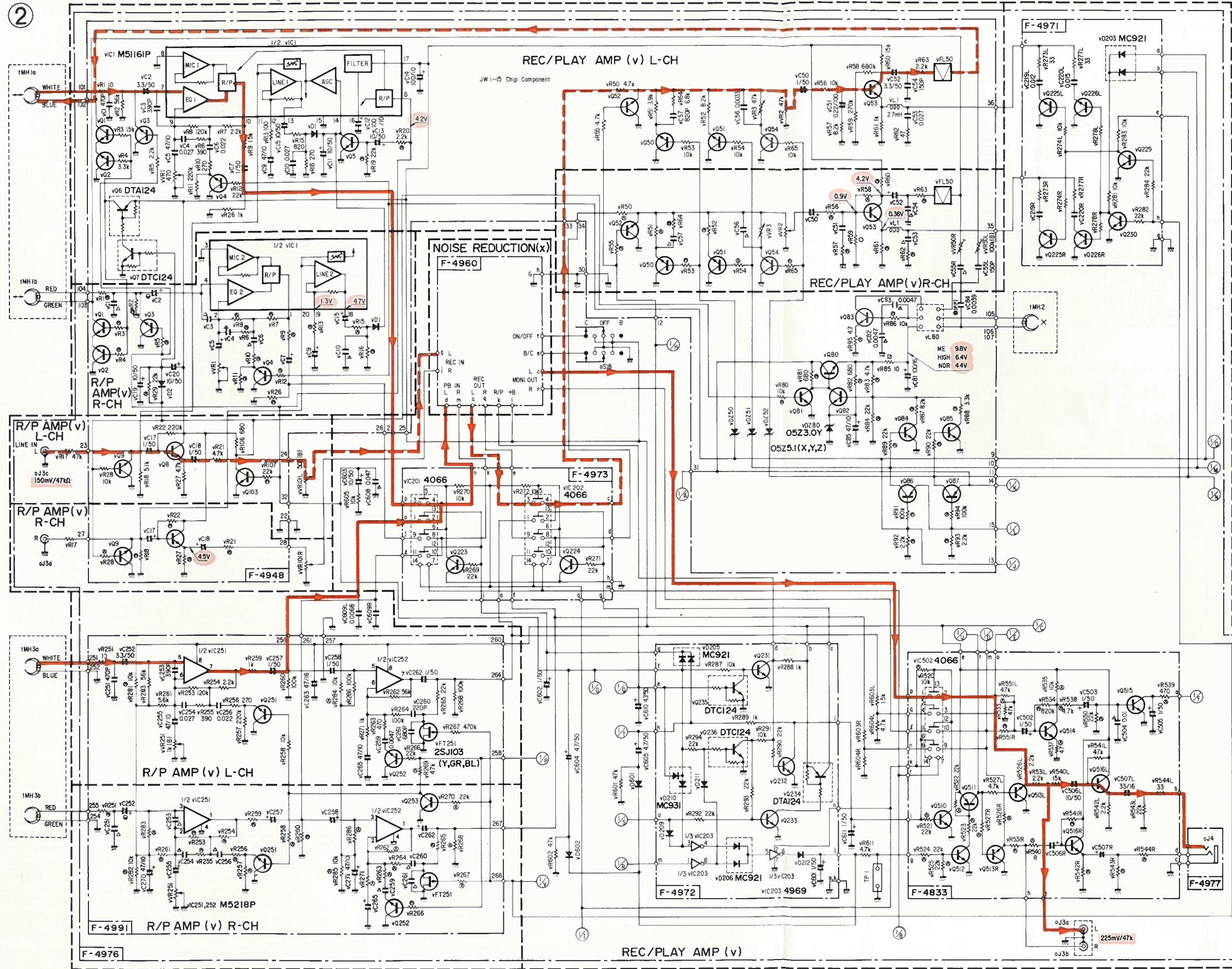
- 1) Remove the mechanism ass'y from set.
- 2) Take off two washer ⑬, ⑭ to pull out reel gear.

L. Capstan Motor ㉓, Reel Motor ㉔, Capstan Belt ㉕, Flywheel ㉖, Plunger Solenoid ㉗

- 1) Remove the mechanism ass'y from set.
- 2) Extract connectors on the F-4948 <b-Side Mecha.> or F-4991 <a-Side Mecha.> circuit board.
- 3) Remove the F-4948 <b-Side Mecha.> or F-4991 <a-Side Mecha.> circuit board from the mechanism ass'y.
- 4) Take out shield plate ㉘.
- 5) Loosen four screws ⑮ fastening sub chassis ㉙.

10-2. REC & PLAY Amplifier Section

• Design and specifications subject to change without notice for improvement.
 • La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
 • Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



- SYMBOL OF FUNCTION**
- (g) MIC AMP
 - (m) POWER SUPPLY
 - (o) SELECTOR
 - (p) FIXED PARTS
 - (t) MECHANISM
 - (v) REC/PLAY AMP
 - (w) LOGIC CONTROL
 - (x) NOISE REDUCTION

- SYMBOL**
- △ Ceramic Capacitor
 - ▲ Barrier Layer Capacitor
 - ⊖ Mylar Capacitor
 - ⊖ Low-Leak Electrolytic
 - B.P. Bi-Polar Electrolytic
 - ⊖ Non-Inflammable Resistor
 - ⊖ Chip Component (Cylindrical Type)
 - ⊖ Chip Component
 - ⊖ Fusing Resistor
 - ⊖ Polypropylene Film
- RESISTORS**
 Are in ohms, 1/4 Watts, ± 5% Tolerance Unless Otherwise Noted. k: kΩ, M: MΩ
- CAPACITORS**
 Are in μF, Unless Otherwise Noted. P: pF
 Electrolytic Capacitor Capacitance (μF) / Volt (V)
- CHIP RESISTORS**
 Are 1/8 Watts
- Each DC Voltage shows the nominal value in volts during recording
- ⚠ Safety Part**
 Use only replacement parts recommended by the manufacturer.

PARTS NO.	TYPE NO.
v01,2	2SC1845 (E,F)
v03	2SC2001 (L,M) 2SD1468S (R,S)
v04,5,6,9,50-54 81,82,84,85,103 223-226,229-233 251-253,510 512-516	2SC2603 (E,F) 2SC1740S (R,S,E) 2SC2458 (Y,GR) 2SC2785 (J,H,F,E)
v080	2SC3243 (D,E)
v083	2SC3224 (D,E) 2SC1627A (O,Y)
v086,87,511	2SA1115 (E,F) 2SA933S (R,S,E) 2SA1175 (J,H,F,E)
v01,2	RLS-73
v0209,211,212	IS2473 IS1588

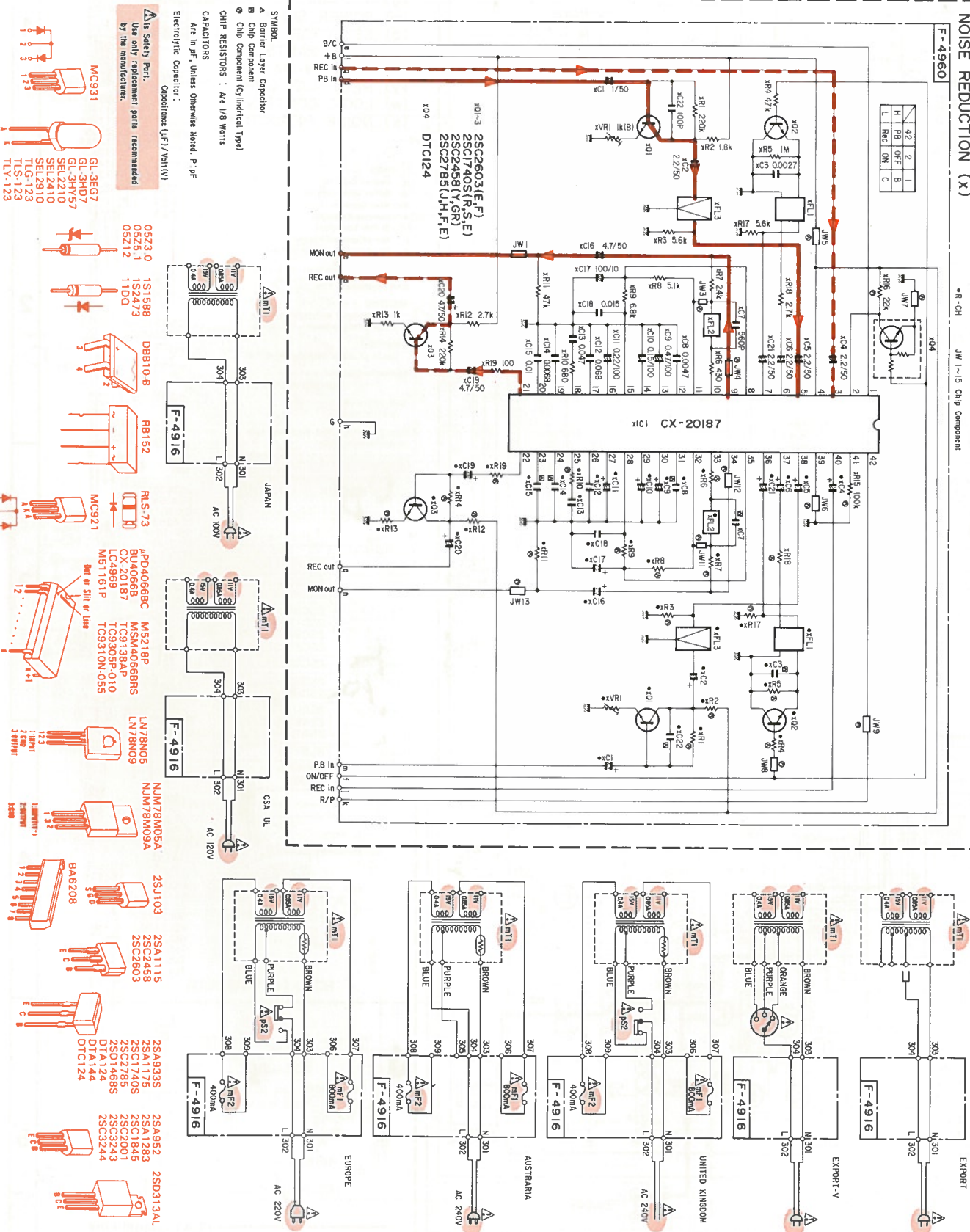
- RB152
- RLS-73
- MC921
- DBB10-B
- 1S1588
- 1S2473
- 11D0
- GL-3EG7
- GL-3HD7
- GL-3HV57
- SEL2210
- SEL2410
- SEL2910
- TLG-123
- TLI-123
- TLY-123
- 05Z3.0
- 05Z5.1
- 05Z1.2
- MC931

— PLAY Signal Line
 - - - REC Signal Line

10-3. Noise Reduction Section

• Design and specifications subject to change without notice for improvement.
 • La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
 • Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

3



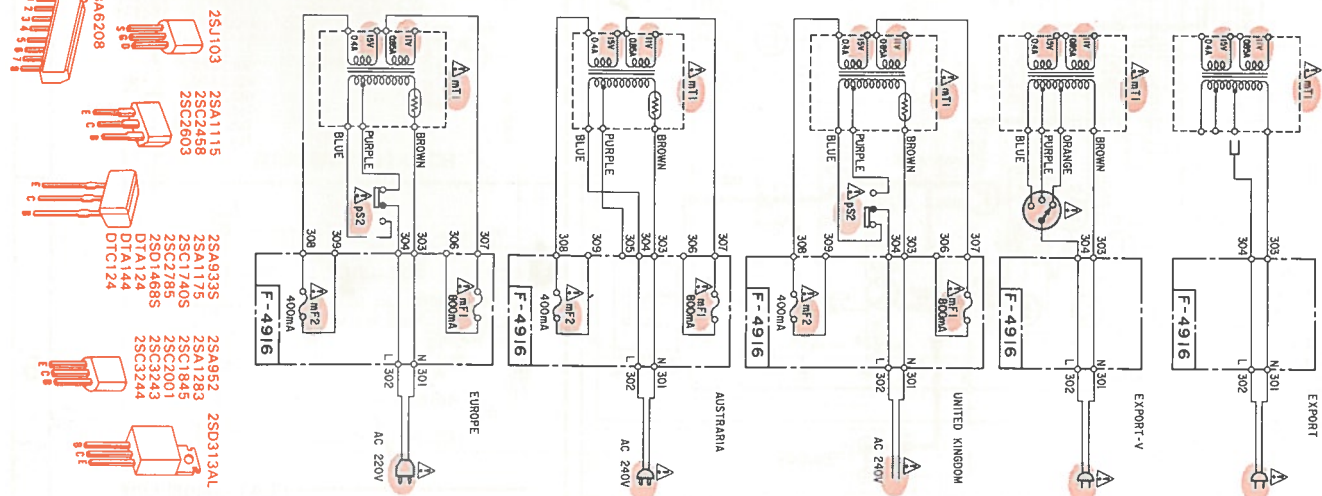
NOISE REDUCTION (X)

42	2	L
H	PH	OFF
B		
L	REC	ON
C		

*R-CH JW 1-15 Chip Component

- SYMBOL
 ▲ Barrier Layer Capacitor
 ● Chip Component
 ○ Chip Component (Cylindrical Type)
 CHIP RESISTORS : Are 1/8 Watts
 CAPACITORS
 Are in μF , Unless Otherwise Noted. P- μF
 Electrolytic Capacitor :
 Capacitance (μF / Volt(V))
- ▲ Safety Part.
 Use only replacement parts recommended by the manufacturer.

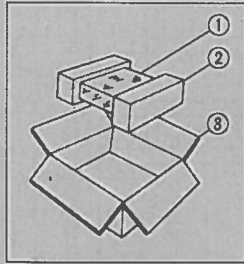
- MC931
 GL-3EG7
 GL-3HD7
 SE2410
 SEL2410
 SEL2910
 TTG-123
 TTY-123
- 05Z3.0 1S1588
 05Z5.1 1S2473
 05Z7.2 11D0
- DBB10-B
 RB152
- RI S-73
 MC921
- ▲PDA0668C MS218P
 BLU00668 MSM40668S
 CX-20187 TC9138AP
 LC4988 TC9305P-010
 MS1161P TC9310N-055
- ▲LNT8N05 LNT8N05
 ▲N1M78M05A N1M78M05A
- 2S1103
 2SA1115
 2SC2458
 2SC2603
- 2SA933
 2SA1175
 2SC1745
 2SC2785
 2SC3243
 2SC3244
- 2SA952
 2SD313A1



PLAY Signal Line
 REC Signal Line

11. PACKING LIST

Parts No.	Stock No.	Description
1	47859900	Vinyl Cover
2	47764600	Styrofoam Packing
3	47842400	Carton Case for Silver Model <XX-UL-CSA-EU-BS-AS>
	47842500	Carton Case for Black Model <XX-UL-CSA-EU-BS-AS>
	47842600	Carton Case for Silver Model <XX-V>
	47842700	Carton Case for Black Model <XX-V>



12. ACCESSORY LIST

Stock No.	Description
07193400	PJP Cord
or 38103300	PJP Cord
48181500	Mini Pin Plug Cord (COMPU EDIT)
48181300	Mini Pin Plug Cord (COMPU SELECTOR)
94300500	Head Cleaner
46968300	Operating Instruction (D-75BW/D-75CW)

•Note: XX-V<EXPORT (V)> Standard Version with Outer Voltage Selector.
(“V” mark is indicated on the carton case.)

SANSUI ELECTRIC CO., LTD.:

SANSUI ELECTRONICS CORPORATION:

SANSUI ELECTRONICS (U.K.) LTD.:
SANSUI ELECTRONICS G.M.B.H.:

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