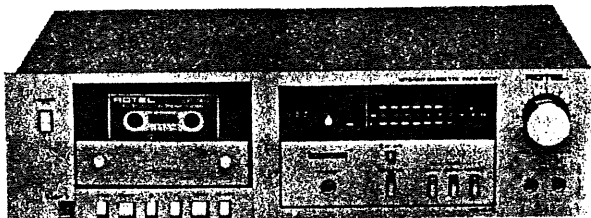


Quality Uncompromised

ROTEL®

Technical Manual



STEREO CASSETTE TAPE DECK

RD-840

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INHALTSVERZICHMIS

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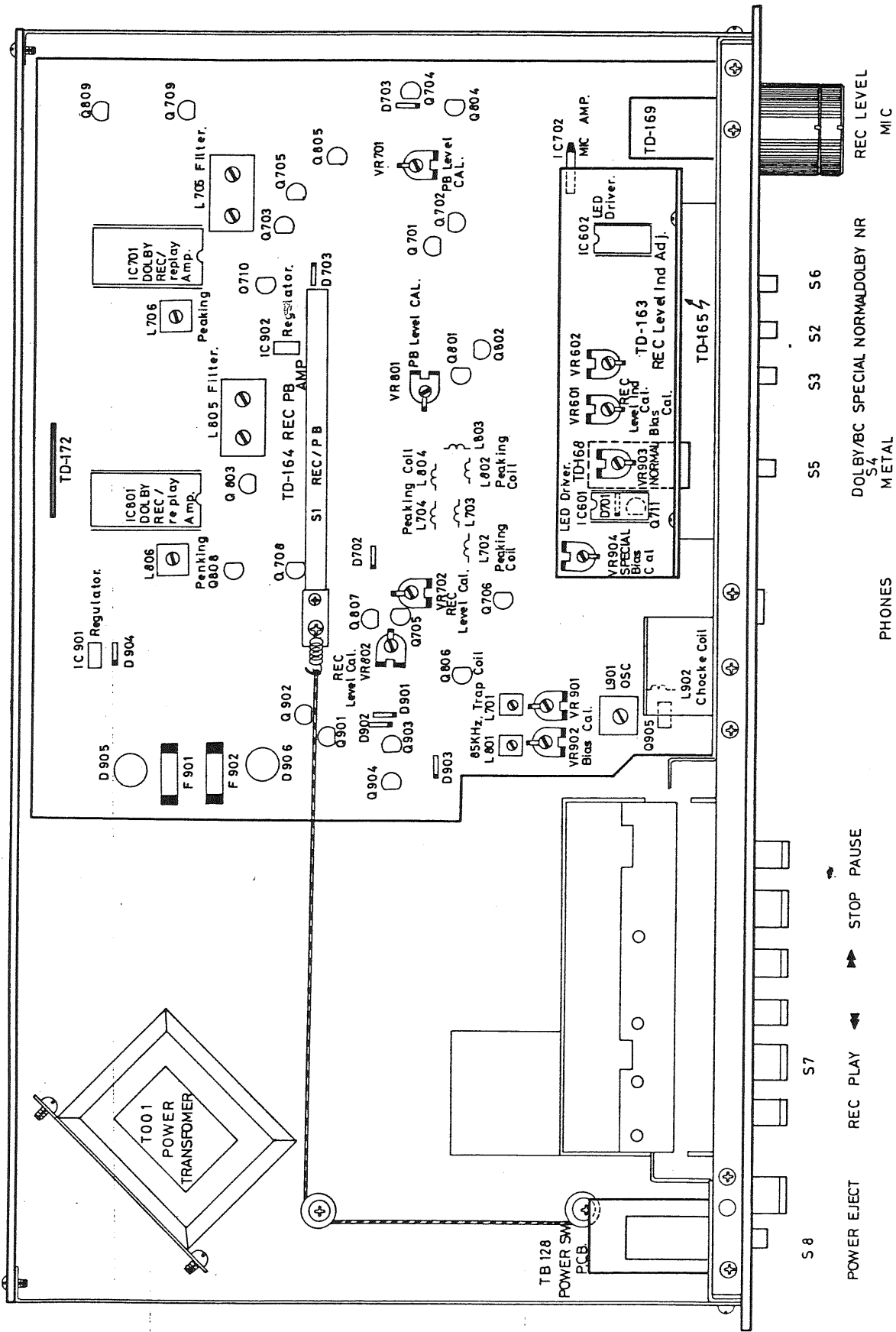
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Chassis Layout/Chassis-Anordnung/ - Installation de Châssis



Playback System Adjustments

Instruments: Oscilloscope, AC VTVM, Frequency Counter and Test Tape

Conditions: Oscilloscope, AC VTVM and Frequency Counter . . . LINE OUT Tape Selector . . . NORMAL Dolby NR . . . OFF

Adjustment Item	Test Tape	Adjust	Adjust for
Azimuth	LCT-3004-C	REC/PB head screw	Obtain largest wave form on Oscilloscope for both channels (Fig. 1)
Dolby Level	LCT-7001	VR701 (L-ch) VR801 (R-ch)	AC VTVM reads 580mV at TP5, TP6.
LED Calibration		VR601 (L-ch) VR602 (R-ch)	The LEDs indicator responds with the 0dB LED. (Fig. 2)
Playback EQ Check	LCT-3009-C	Output Level difference between 40Hz, 1KHz and 10KHz signal is within ± 3.0 dB	
Tape Speed Deflection Check/Tape Speed Adjust	LCT-3001	Check that allowable margin of deflection at middle of or at the end of winding is in the range of +2%—1% (at 3000Hz allowable margin of deflection of speed is 3060-2970) If Tape Speed deflection surpasses the above range adjust speed of Motor (Fig. 3)	

Adjustment Item	Coupling	Tape Selector	Adjust	Adjust for
Spectral Skewing Network	I/P SG (1KHz) IN Point TP9 (TP10) O/P IN IC Pin 22 (L. R CH The Same)	NORMAL	L706 (L-CH) L806 (R-CH)	1. AC VTVM read minimum at 19.9KHz. 2. Check 17KHz relative to 1KHz, AC VTVM read 8.3 dB (minimum).

Wiedergabepiegels-Einstellung

Instrumente: Oszillograph, Wechselspannungsvoltmeter, Frequenz-Zähler und Test-cassette

Bedienung: Oszillograph, Wechselspannungsvoltmeter und Frequenz-Zähler . . . LINE OUT, Bank-Wähler . . . NORMAL

Dolby NR Taste . . . OFF

Einstellungsteil	Test-Cassette	Einstellung	Einstellungszweck
Azimuth	LCT-3004-C	REC/PB Tonkopfschraube	Maximum-Wellenform auf Oszillograph für beiden Kanäle (Abb. 1) erhalten.
Dolby-Regel	LCT-7001	VR701 (L-K) VR801 (R-K)	Wechselspannungsvoltmeter auf 580mV einstellen Bei TP5, TP6.
Zähler-LED		VR601 (L-K) VR602 (R-K)	Der LEDs-Anzeiger auf dem 0dB LED. (Abb. 2)
Prüfung der Wiedergabe "EQ"	LCT-3009-C	Ausgangspegelunterschied zwischen 40Hz, 1KHz und 10KHz darf innerhalb + 3.0dB betragen.	
Überprüfung der Bandgeschwindigkeit /Einstellung der Bandgeschwindigkeitabweichung	LCT-3001	Prüfen, ob Abweichung von der Sollgeschwindigkeit im Bereich + 2% - 1% liegt (bei 3000 Hz zwischen 3060-2970 Hz). Bei grösser Abweichung Motorgeschwindigkeit nachstellen (Abb. 3)	

Regelungsteil	Ankopplung	Bandwähler	Regelung	Regelung für
Spektral-schrägstellung Funkverbindung	I/P SG (1KHz) IN Stifte TP9 (TP10) O/P IN IC Stifte 22 (L.R. CH Der Gleiche)	NORMAL	L706 (L-CH) L806 (R-CH)	1. Wechselstrom VTVM liest Mindest um 19.9KHz. 2. Prüfen 17KHz bezogen auf 1KHz, Wechselstrom VTVM liest 8.3dB (Mindest).

Réglages de système de la reproduction

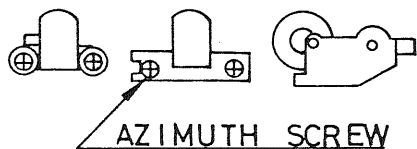
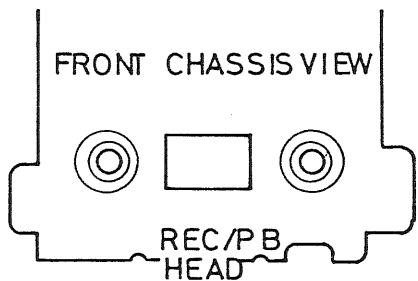
Instruments: Oscilloscope, Voltmètre électronique à courant alternatif, Analyseur de fréquence et bande d'essai

Conditions: Oscilloscope, Voltmètre électronique à courant alternatif et analyseur de fréquence . . . LINE OUT

selecteur de bande . . . NORMAL Dolby NR . . . OFF

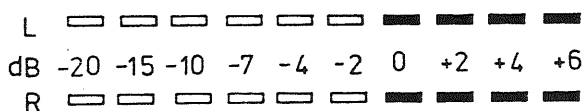
Item de réglage	Bande d'essai	Régler	Régler pour
Azimet	LCT-3004-C	Vis de tête de Enregistrement/repro-duction	Obtenir forme d'onde la plus grande sur l'oscilloscope pour les deux canaux (fig. 1)
Niveau de Dolby	LCT-7001	VR701 (canal gauche) VR801 (canal droit)	Le voltmètre électronique à courant Alternatif lit 580 mV à TP5, TP6.
Calibrage de LED		VR601 (canal gauche) VR602 (canal droit)	LEDs Indicateur correspond à la 0dB LED. (fig. 2)
Contrôle de l'égalisation de reproduction	LCT-3009-C	Différence de niveau de sortie entre les signaux 40 Hz, 1 KHz et 10KHz est dans ± 3.0 dB.	
Contrôle de la Variation de la vitesse de bande/réglage de la vitesse	LCT-3001	Vérifier que la marge admissible de variation au milieu ou à la fin de bobinage est dans la plage donnée de +2% - 1% (à 3000 Hz marge admissible de variation de la vitesse est 3060-2970). Si la variation de vitesse de bande surpasse la plage donnée ci-dessus, régler la vitesse de moteur. (fig. 3)	

Article d'ajustage	Couplage	Bande de	Ajuster	Ajuster pour
Reseau d'oblique spectrale	I/P . . . SG (1KHz) dans point TP9 (TP10) O/P . . . dans IC fiche 22 (L.R CH Le Meme)	NORMAL	L706 (L-CH) L806 (R-CH)	1. AC VTVM lire minimum a 19.9KHz 2. Verifier 17KHz relatif a 1KHz, AC VTVM lire 8.3 dB (minimum)



ADJUST AZIMUTH SCREW TO OBTAIN MAXIMUM DEFLECTION ON SCOPE

Fig. 1 Azimuth Adjustment
Abb. 1 Azimuteinstellung
Fig. 1 Réglage de l'azimut



ADJUST POTENTIOMETER VR 601 (VR 602 FOR R-CH) SO THAT 10 LEDs SHOWS LEVEL FROM -20 TO 0 dB

Fig. 2 Dolby Level Adjustment
Abb. 2 Einstellung der Dolby-Regel.
Fig. 2 Réglage du niveau Dolby

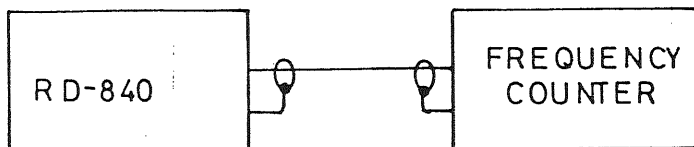
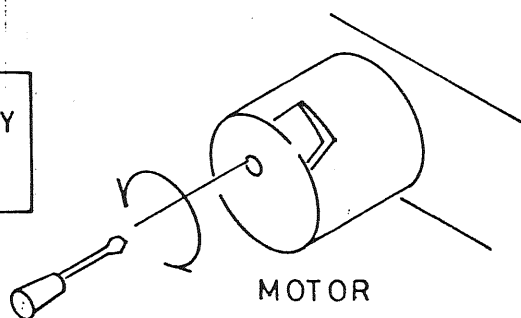


Fig. 3 Tape speed Adjustment
Abb. 3 Einstellung der Bandgeschwindigkeitabweichung
Fig. 3 Réglage de la vitesse de défilement de la bande



Recording System Adjustments

Instruments: Oscilloscope, Signal Generator, AC VTVM and Blank Tape

Conditions: Dolby NR ... OFF REC Level ... Maximum

Adjustment Item	Coupling	Tape Selector	Adjust	Adjust for
Bias Carrier	Oscilloscope ... Point TP1 (TP2 R-ch)	METAL	L701 (L-ch) L801 (R-ch)	Obtain Min. deflection on the Oscilloscope
19KHz Filter	S.G. (400Hz OdB) ... LINE IN/LINE OUT ... 580mV Changed S.G. to 19KHz Dolby NR ... OFF	NORMAL	L705 (L-Ch) L805 (R-Ch)	AC VTVM reads -30dB (Minimum)
Bias Voltage	Oscilloscope ... Point 5 6 (R-ch)	METAL	VR901 (L-Ch) VR902 (R-Ch)	AC VTVM reads 8mV
		SPECIAL	VR904	AC VTVM reads 5mV
		NORMAL	VR903	AC VTVM reads 4mV

Aufnahmesystems-Einstellung

Instrumente: Oszillograph, NF-Generator, Wechselspannungsvoltmeter und Leercassette.

Bedienungen: Dolby NR Taste ... OFF Aufnahmepegelregler ... Maximum

Einstellungsteil	Kupplung	Band-Wähler	Einstellung	Einstellungszweck
Bias-Trägerstrom	Oszillograph ... Punkt TP1 (TP2 R-K)	METAL	L701 (L-K) L801 (R-K)	Min. Abweichung auf Oszillograph erhalten.
19KHz Filter	NF-Generator (400Hz OdB) ... an "LINE IN/LINE OUT ... 580mV NF-Generator auf 19 KHz. Dolby NR ... OFF	NORMAL	L705 (L-Ch) L805 (R-Ch)	Wechselspannungsvoltmeter auf -30dB einstellen, (Minimum)
Vorspannung	Oszillograph ... Punkt 5 (6 R-K)	METAL	VR901 (L-Ch) VR902 (R-Ch)	Wechselspannungsvoltmeter auf 8mV einstellen.
		SPECIAL	VR904	Wechselspannungsvoltmeter auf 5mV einstellen.
		NORMAL	VR903	Wechselspannungsvoltmeter auf 4mV einstellen.

Réglages de système de l'enregistrement

Instruments: Oscilloscope, Générateur de signal, voltmètre électronique à courant alternatif et bande vierge

Conditions: Dolgy NR ... OFF Niveau de l'enregistrement ... maximum

Item de réglage	Accouplement	Selecteur de bande	Régler	Régler pour
Porte-Polarisation	Oscilloscope .. Point TP1 (TP2 canal droit)	METAL	L701 (canal gauche) L801 (canal droit)	Obtenir la variation min. sur l'oscilloscope
Filtre 19KHz	Générateur de signal (400Hz OdB) .. LINE IN/LINE OUT ... 580mV Changé le générateur de signal à 19KHz Dolby NR ... OFF	NORMAL	L705 (L-Ch) L805 (R-Ch)	Voltmètre électronique à courant alternatif lit -30dB (minimum)
Voltage de polarisation	Oscilloscope ... Point 5 (6 Canal droit)	METAL	VR901 (L-Ch) VR902 (R-Ch)	Voltmètre électronique à courant alternatif lit 8mV
		SPECIAL	VR904	Voltmètre électronique à courant alternatif lit 5mV
		NORMAL	VR903	Voltmètre électronique à courant alternatif lit 4mV

REC/PB System Adjustments

Instruments: Signal Generator, H.D. Analyzer and Blank Tape

Conditions: Dolby NR ... OFF REC Level ... Maximum PLAY, REC, PAUSE ... ON

Adjustment	Conditions	Adjust	Adjust for
REC/PB Output Level	S.G. (400Hz 0dB) ... LINE IN/LINE OUT ... 580mV Release Pause Button and playback it again.	VR702 (L-ch) VR802 (R-ch)	Recording and Playback level difference must be within ± 1 dB
Distortion Check	S.G. (400Hz 0dB) ... LINE IN/LINE OUT ... 580mV H.D. Analyzer ... LINE OUT Release Pause Button and playback it again.	Check that distortion is within following range. a. METAL Tape ... under 2% b. SPECIAL Tape ... under 3% c. NORMAL Tape ... under 2%	
	If the distortion factor exceeds the above, recheck Bias Current Adjustment.		
Frequency Response Check	METAL Tape insert it	VR901 (L-ch) VR902 (R-ch)	40Hz-125Hz ... 5dB 125Hz-10KHz ... 3dB 10KHz-15KHz ... 5dB
	SPECIAL Tape insert it	VR904	
	NORMAL Tape insert it	VR903	40Hz-125Hz ... 5dB 125Hz-10KHz ... 3dB 10KHz-14KHz ... 5dB

Aufnahmesystems- und Wiedergabepegels-Einstellung

Instrumente: NF-Generator, Klirrfaktormessbrücke und Leer-cassette

Bedienungen: Dolby NR ... OFF. Aufnahmespiegel ... Maximum
PLAY, REC, PAUSE Taste ... ON

Einstellung	Bedienungen	Einstellen	Einstellungszweck
Aufnahme/ Wiedergabe Ausgangspegel	NF-Generator (400 Hz 0dB) ... LINE IN/LINE OUT ... 580mV Pause-Taste freigeben und spielen es rück noch einmal.	VR702 (L-Ch) VR802 (R-Ch)	Die Differenz der Aufnahme und Wiedergabe-Ausgangspegel innerhalb einer Toleranz von ± 1 dB liegen müssen.
Prüfen des Klirrfaktors	NF-Generator (400 Hz 0dB) ... LINE IN/LINE OUT ... 580mV Klirrfaktormessbrücke ... LINE OUT Pause-Taste freigeben und spielen es rück noch einmal.	Prüfen, ob Klirrfaktor den folgenden Werten entspricht: a. METAL Band ... unter 2% b. SPECIAL Band ... unter 3% c. NORMAL Band ... unter 2%	
	Wenn der Klirrfaktor die angegebenen Werte übersteigt, dann Vormagnetisierungstrom prüfen.		
Prüfen des Frequenzgangs	METAL Band einschieben	VR901 (L-Ch) VR902 (R-Ch)	40Hz-125Hz ... 5dB-125Hz-10KHz ... 3dB 10KHz-15KHz ... 5dB
	SPECIAL Band einschieben	VR904	
	Normal Band einschieben	VR903	40Hz-125Hz ... 5dB 125Hz-10KHz ... 3dB 10KHz-14KHz ... 5dB

Réglages de système de l'enregistrement/reproduction

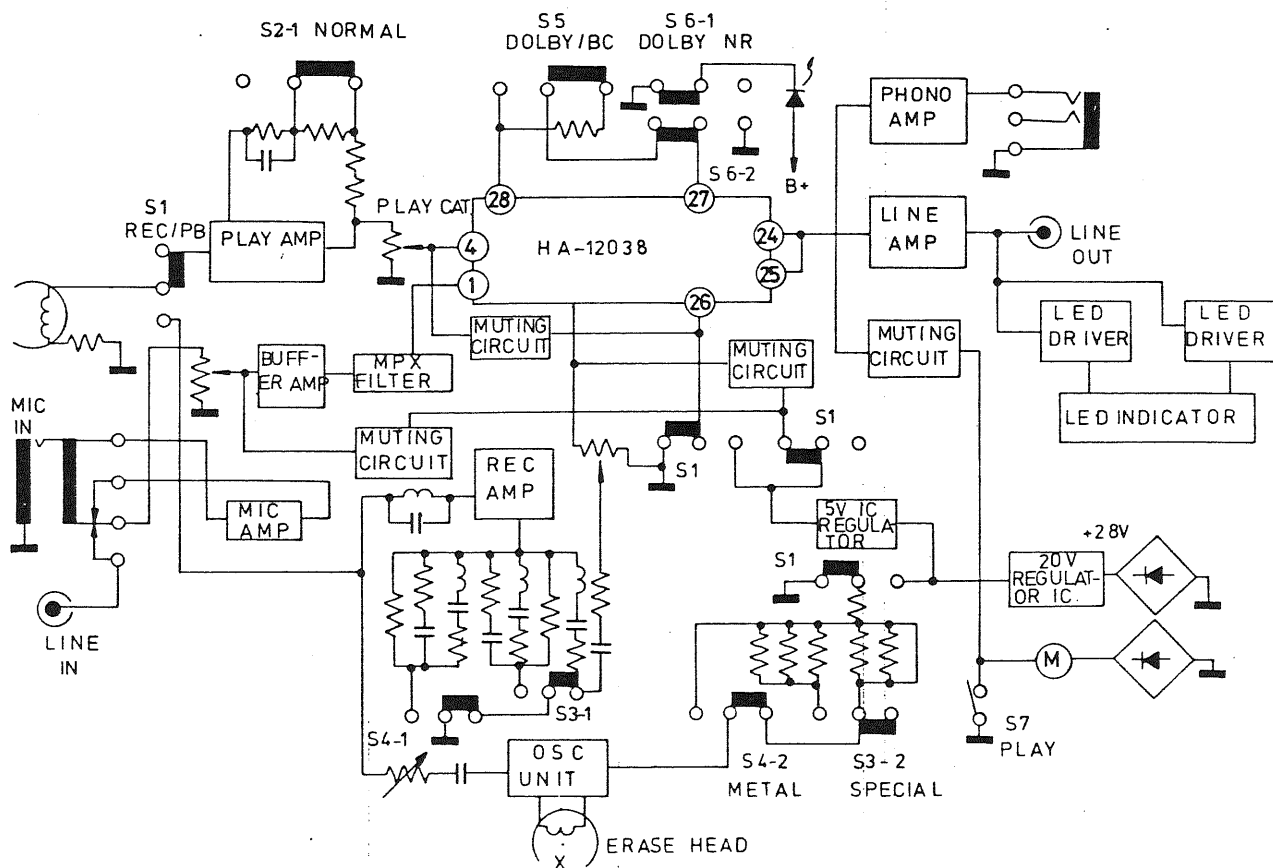
Instruments: Générateur de signal, analyseur H.D., et bande vierge

Conditions: Dolby NR ... OFF

Niveau de l'enregistrement ... maximum Reproduction, enregistrement, pause ... ON

Réglage	Conditions	Régler	Régler pour
Niveau de la sortie de l'enregistrement/reproduction	Générateur de signal (400 Hz 0dB) ... LINE IN/LINE OUT ... 580mV Relâcher le bouton de pause et reproduire encore.	VR702 (L-Ch) VR802 (R-Ch)	Différence de niveau de l'enregistrement et reproduction doit être dans $\pm 1dB$.
Contrôle de la déformations	Générateur de signal (400 Hz 0dB) ... LINE IN/LINE OUT ... 580mV Analyseur H.D. ... LINE OUT Relâcher le bouton de pause et reproduire encore.	Vérifier que la déformation est dans la plage donnée suivante. a. Bande métal ... sous 2% b. Special ... sous 3% c. Bande normale ... sous 2%	
	Si le facteur de la déformation excède les valeurs ci-dessus, vérifier le réglage du courant de la polarisation.		
Contrôle de réponse de fréquence	Insérer la bande METAL	VR901 (L-Ch) VR902 (R-Ch)	40Hz-125Hz ... 5dB 125Hz-10Hz ... 3dB 10KHz-15KHz ... 5dB.
	Insérer la bande SPECIAL	VR904	
	Insérer la bande NORMAL	VR903	40Hz-125Hz ... 5dB 125Hz-10KHz ... 3dB 10KHz-14KHz ... 5dB.

Block Diagram/Blockschaltbild/Schéma synoptique



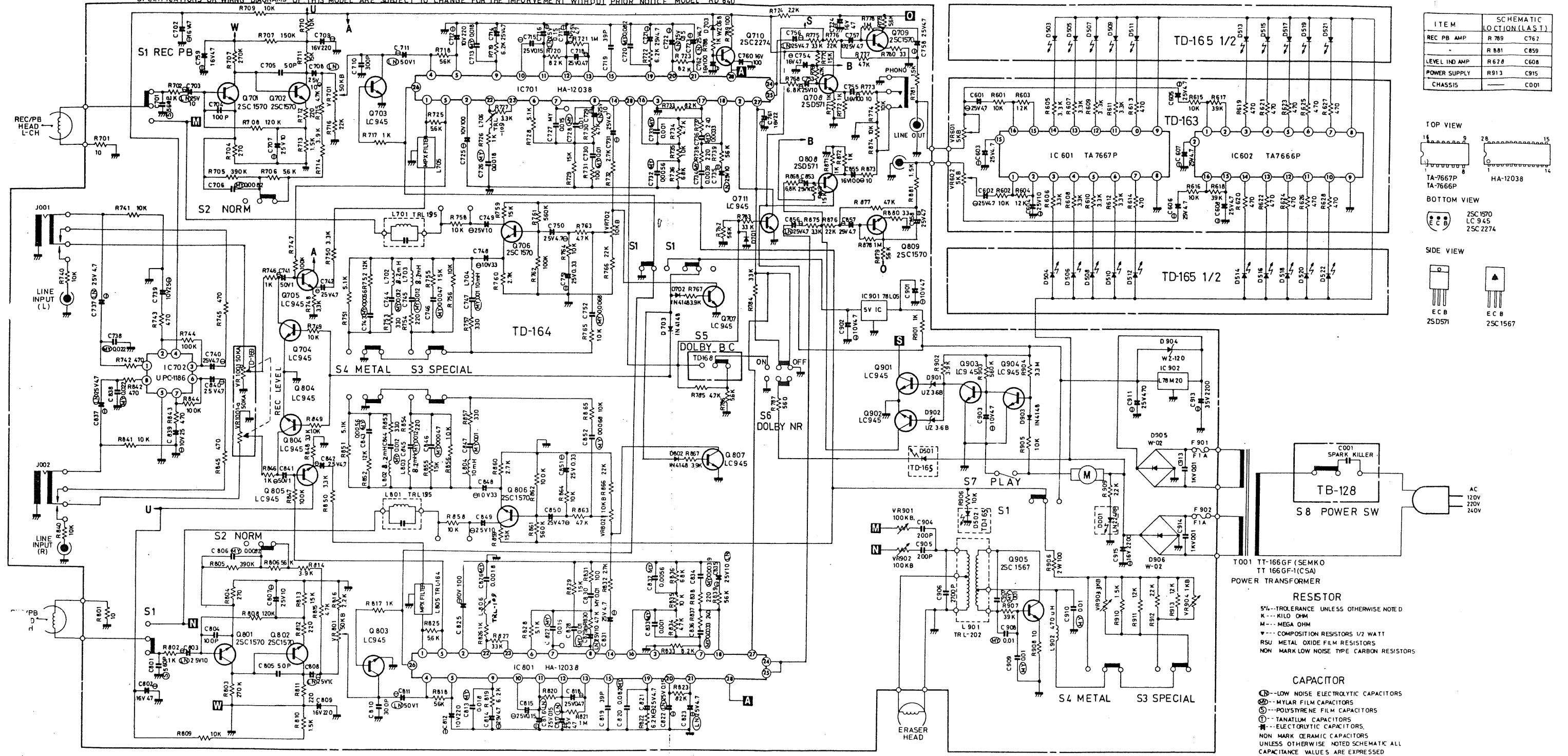
Repair Parts List/Reparaturteilliste/ Liste des pièces de rechange

Schematic Location	Parts No.	Description
TRANSISTORS, DIODES AND IC'S		
Q701, 801	0332SC1570-EG	2SC1570 (E, G), Playback Amp.
702, 802	0332SC1570-EG	2SC1570 (E, G), REC Amp.
Q706, 806	0332SC1570-EG	2SC1570 (E, G), REC Amp.
Q703, 704	032LC945-PK	LC945 (P, K), for Muting
803, 804	032LC945-PK	LC945 (P, K), Buffer Amp.
Q705, 805	032LC945-PK	LC945 (P, K), for Muting
Q707, 807	032LC945-PK	LC945 (P, K), for Muting
Q708, 808	0332SD571-KL	2SD571 (K, L), Phone Amp.
Q709, 809	0332SC1570-EG	2SC1570 (E, G), for LINE Amp.
Q710	0332SC2274-EF	2SC2274 (E, F), B+ Regulator
Q711	032LC945-PK	LC945 (P, K), for Muting
Q901-904	032LC945-PK	LC945 (P, K), for Muting
Q905	0332SD600K-EF	2SD600K (E, F), OSC
D503-513	034C-3943	SEL9711M01, REC Level Ind. (GGRRRR/)
D504-514	034C-3943	SEL9711M01, REC Level Ind. (GGRRRR/)
D501	034C-3942	SEL 9711G01, DOLBY NR and REC Level Ind. (G//GGGG)
515-521	034C-3942	SEL9111M02, REC and REC Level Ind. (R//GGGG)
D502	034C-3944	SEL9111M02, REC and REC Level Ind. (R//GGGG)
D701, 702	0341N4148	1N4148, Reversal Prevention
703, 802	0341N4148	1N4148, Reversal Prevention
D703	034HZ-7	HZ-7(A3), Zener Regulator 6.8V ½W
D901, 902	034UZ-3.6B	UZ-3.6B, Reversal Prevention 3.6V ½W
D903	0341N4148	1N4148, Reversal Prevention
D904	034WZ-120	WZ-120, Short Test Prevention 12V ½W
D905, 906	034W-02	W-02, Rectifier
D001	034LN224RP	LN224RP, Power Ind.
IC601	031TA7667P	TA-7667P, LED Driver
IC602	031TA7666P	TA-7666P, LED Driver
IC701, 801	031HA12038	HA-12038, DOLBY REC/REPLAY Amp.
IC702	031UPC1186H	UPC-1186H, MIC Amp.
IC901	031UPC78L05	UPC-78L05, Regulator
IC902	031L78M20	L78M20, Regulator
COILS AND VARIABLE RESISTORS		
L701, 801	021TRL-195	85KHz, Trap Coil
L702, 802	021TRL-147	8.2mH, Peaking Coil
L703, 803	021TRL-147	8.2mH, Peaking Coil
L704, 804	021TRL-154	10mH, Peaking Coil
L705, 805	021TRL-164	Filter
L706, 806	021TRL-109	Peaking Coil
L901	021TRL-202	OSC
L902	021TRL-237	470uH, Chocke Coil
VR601, 602	0518-1-401-5K	5KB, REC Level Ind. CAL.
VR701, 801	0518-1-401-50K	50KB, PB Level CAL.
VR702, 802	0518-1-401-10K	10KB, REC Level CAL.
VR901, 902	0518-1-401-100K	100KB, METAL Bias CAL.
VR903	0518-1-401-3K	3KB, NORMAL Bias CAL.
VR904	0518-1-401-1K	1KB, SPECIAL Bias CAL.
VR1001	0514TR-1505	50KA x 2, REC Level Adj.

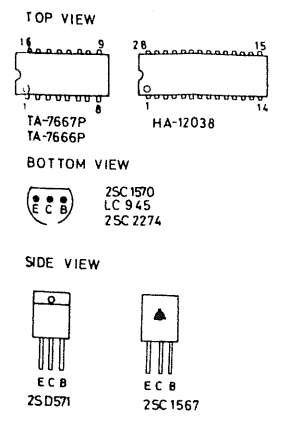
Schematic Location	Parts No.	Description
SWITCHES AND OTHERS		
S1	0614TR-1588	Switch, Slide, REC/PB
S2, 3, 4, 6	0614TR-1563	Switch, 5-Key, NORM/SPECIAL/METAL/DOLBY NR
S5	0614TR-1587	Switch, 1-Key, DOLBY/BC
S8	061C-3700	Switch, Power Supply (for UL, CSA)
	061C-3600A	Switch, Power Supply (for BEAB . . .)
T001	022TT-166-GF-1	Power Transformer (120 only)
	022TT-166-GF	Power Transformer (Multi Type)
F901, 902	036L250V1A	Fuse, 1A, AC Circuit Protector (Long Size)
	036ASG3-250V1A	Fuse, 1A, AC Circuit Protector (Long Size UL)
	036M1A	Fuse, 1A, AC Circuit Protector (Mini Size)
	036(S) F1A	Fuse, F1A, AC Circuit Protector (Mini Size "S" "D" mark)

Schematic Diagram/Schaltungsschema/Diagramme de schématique

*SPECIFICATIONS OR WIRING DIAGRAMS OF THIS MODEL ARE SUBJECT TO CHANGE FOR THE IMPROVEMENT WITHOUT PRIOR NOTICE MODEL RD-840



ITEM	SCHEMATIC LOCATION (LAST)
REC PB AMP	R 789 C 767
LEVEL IND AMP	R 881 C 858
POWER SUPPLY	R 913 C 915
CHASSIS	C 001

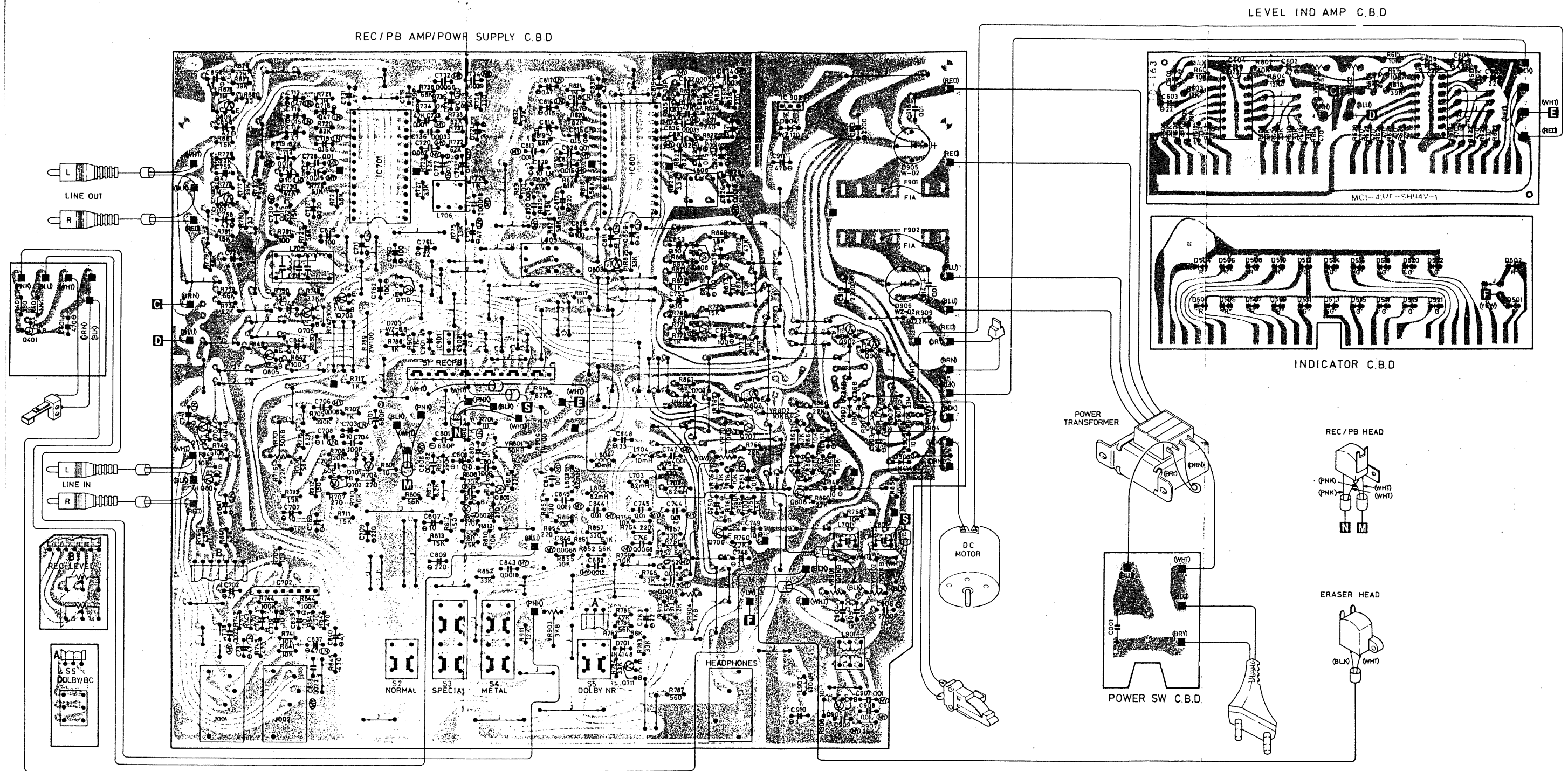


T001 TT-166GF (SEMKO)
TT 166GF-1(CSA)
POWER TRANSFORMER

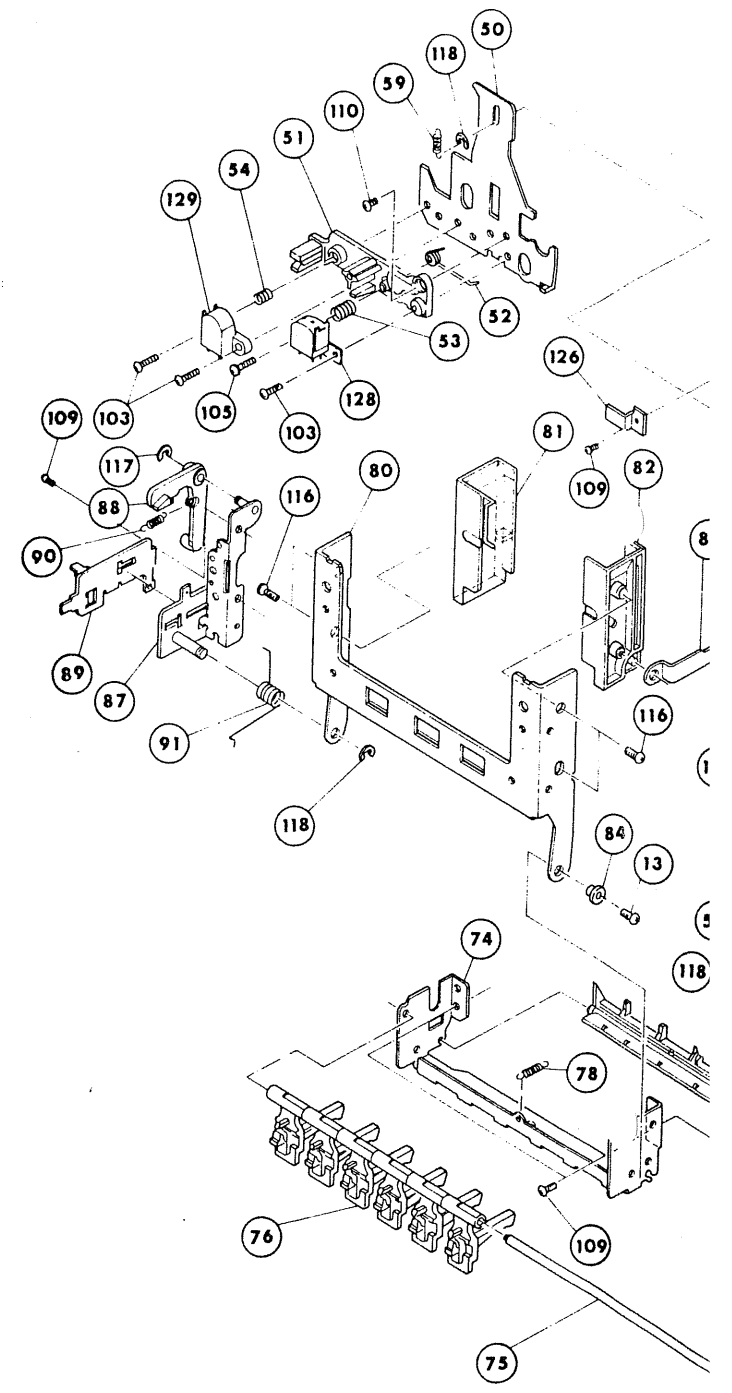
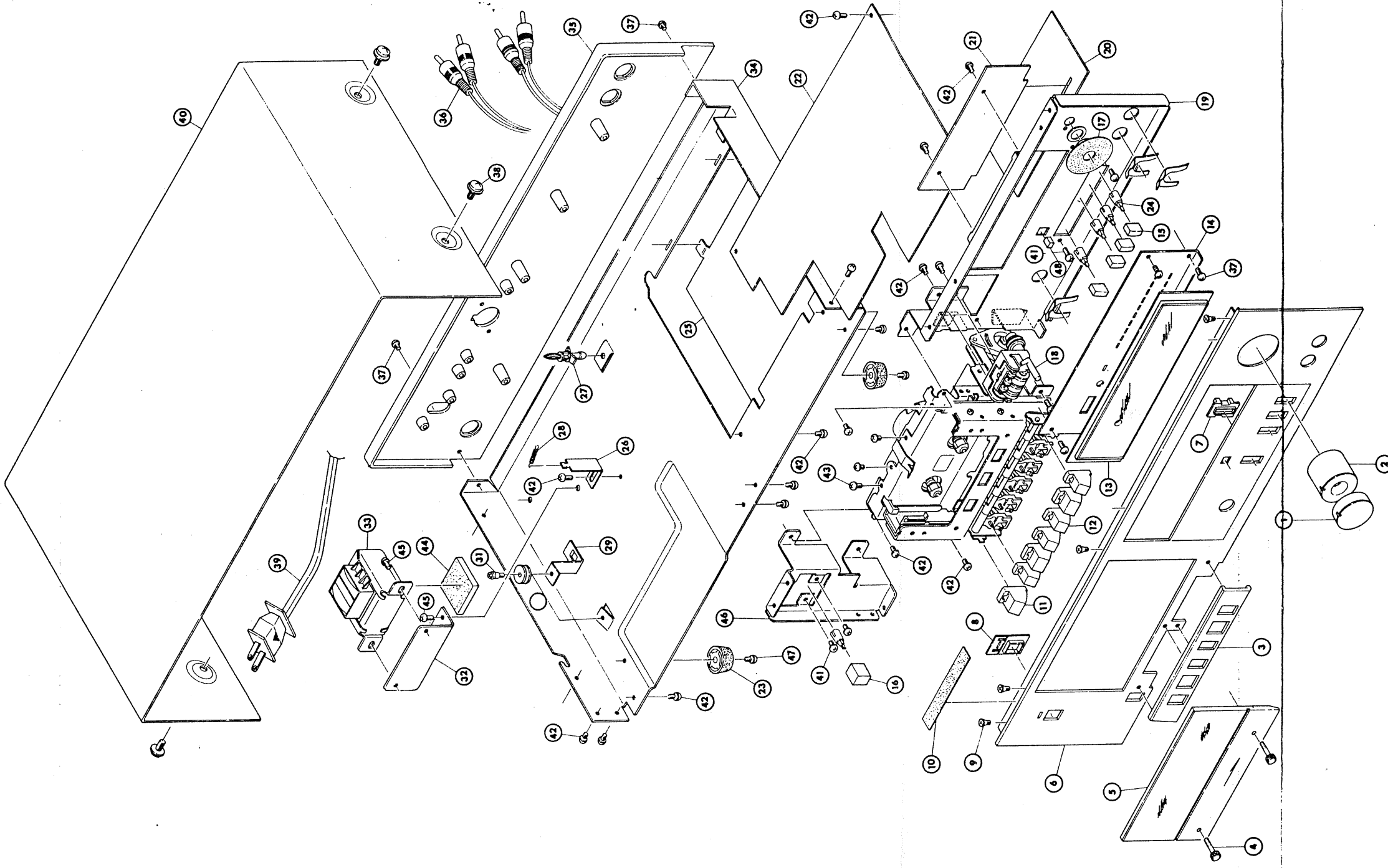
RESISTOR
5%--TOLERANCE UNLESS OTHERWISE NOTE D
K---KILO OHM
M---MEGA OHM
---COMPOSITION RESISTORS 1/2 WATT
RSU METAL OXIDE FILM RESISTORS
NON MARK LOW NOISE TYPE CARBON RESISTORS

CAPACITOR
---LOW NOISE ELECTROLYTIC CAPACITORS
---MYLAR FILM CAPACITORS
---POLYSTYRENE FILM CAPACITORS
---TANTALUM CAPACITORS
---ELECTROLYTIC CAPACITORS
NON MARK CERAMIC CAPACITORS
UNLESS OTHERWISE NOTED SCHEMATIC ALL CAPACITANCE VALUES ARE EXPRESSED

Wiring Diagram/Drahtleitung Diagramm/Diagramme de connexion

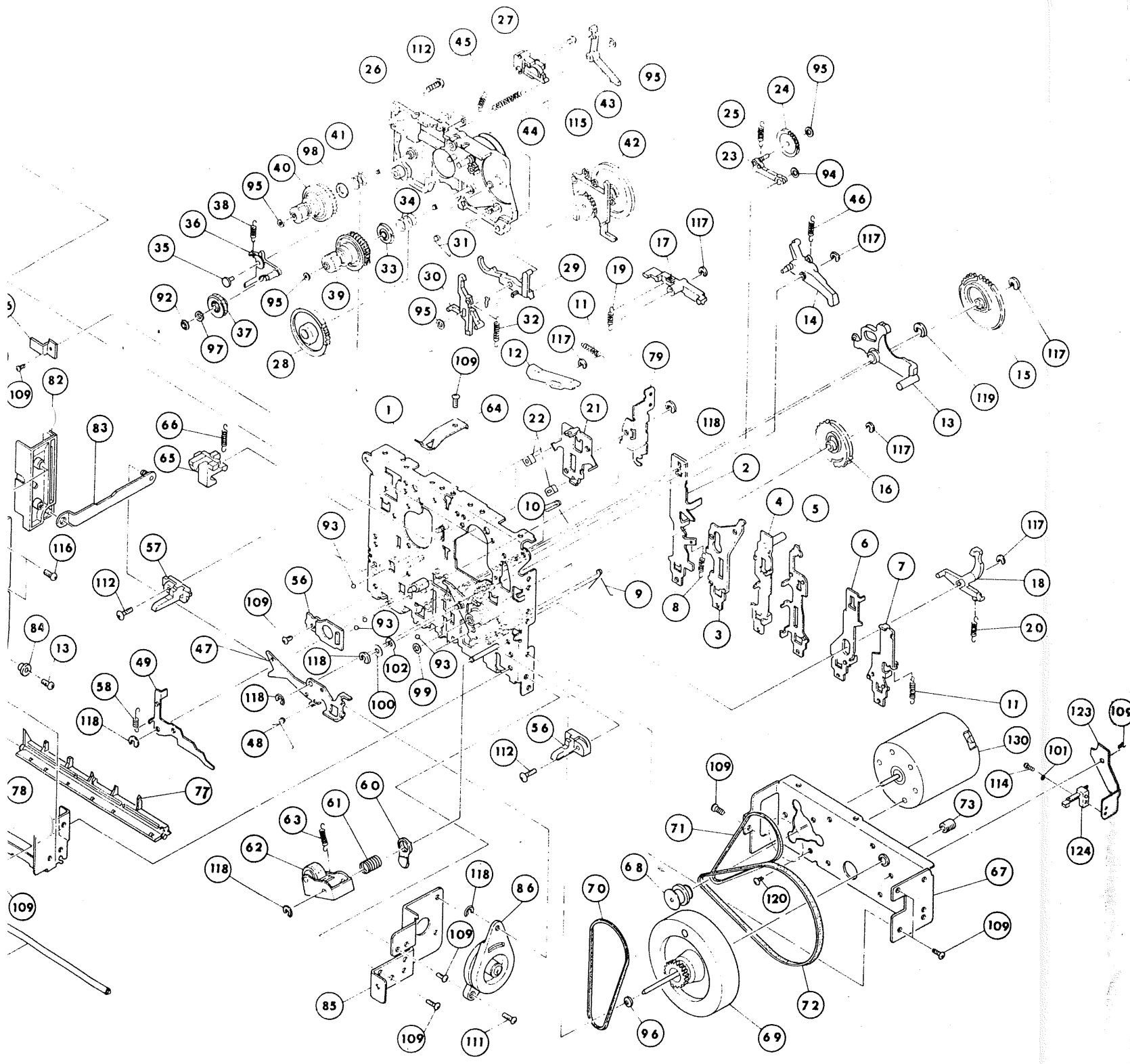


Disassembly Diagram / Illustration des Auseinanderbaus / Schéma de démontage (1 / 2)



Key No.	Parts No.	Description
1	012C-3872-T	Knob, 30g for REC Level (WL)
2	012C-3873-T	Knob, 30g for REC Level (WR)
3	0192TWH-7A#1	Deck Button Ornamental Board
4	0714TXV-30	Screw, Ornamental Board
5	0143TWD-13	Acrylic Door Plate
6	0112TWD-1A#1	Front Panel
7	019C-3546-T	Push SW Connector Frame
8	0194TR-1546	Push SW Connector Frame
9	071SA3x6N	Screw, MF3x6Ni
10	0194TR-1087	Felt, Front Panel
11	0124TR-1544	Deck Push Button
12	0124TXV-16	Deck Push Button
13	0133TWD-6#4	Panel Window
14	015DB-173	LED Ornamental Plate
15	012C-3372#1	Push Button (DOLBY/NR/METAL/SPEC/NORM)
16	012C-3982	Push Button
17	0194TR-1083B#3	Felt, Knob (39g)
18	0634TR-1511	Tape Counter
19	0132TWD-2B	Front Chassis (A)
20	501TD-163	PCB (TD-163)
21	501TD-161	PCB (TD-161)
22	501TD-160	PCB (TD-160)
23	0194TR-1257A	Plastic Foot
24	0194TR-1216	Push Button Connector
25	0133TXD-14	Bottom Cover
26	0134TXD-9A	REC String Support
27	019C-1195	Plastic PCB Support
28	019C-3490	REC Spring
29	0134TWD-9	REC String Support
30	0194TR-905A	Pulley
31	0714TR-1004	Pulley Screw
32	0134TXD-18	PT Support
33	022TT-148-GF-1	Power Transformer (120 only)
	022TT-148-GF	Power Transformer (Multi Type)
34	0132TWD-4	Main Chassis
35	0152TWD-14#1	Plastic Rear Board
36	0734TR-1135B#1	Pin Jack Shield Cord
37	071BZTP3x8B	Screw, TPV3x8BK
38	071NBW4x6N	Screw, MPW4x6Ni
39	0724TR-670#1	AC Power Cord (U.C)
	0724TR-815	AC Power Cord (H.E)
	072C-2504	AC Power Cord (K)
	072C-3763	AC Power Cord (G)
40	0142TWE-5#3	Upper Cover
41	071NB3x6N	Screw, MV3x6Ni
42	071BZTP3x6Z	Screw, TPV3x6Ni
43	071NBTP2.6x	Screw, TPV2.6x4Ni 4Z
44	0194TR-1144A	PT. Rubber Spacer
45	071NB4x6N	Screw, MP4x6Ni
46	0134TWD-3B	Front Chassis (B)
47	071BZTP3x8Z	Screw, TPV3x8Ni
48	012C-3049A#4	Push Button, DOLBY/BC

Disassembly Diagram / Illustration des Auseinanderbaus / Schéma de démontage (2/2)



Key No.	Parts No.	Description	Key No.	Parts No.	Description
1	090221191	Chassis Assy	67	090221223	Motor Bracker (D)
2	090221192	Rec Lever	68	090226275	Motor Pulley (C)
3	090221193	Play Lever	69	090226276	Flywheel
4	090221194	Rew Lever Assy	70	090226277	Belt
5	090221195	FF Lever	71	090226278	Belt
6	090221196	Stop Lever	72	090226279	Belt
7	090221197	Pause Lever Assy	73	090227202	Capstan Screw
8	090226241	Rec Lever Spring	74	090221225	Button Holder
9	090226242	Lever Spring (B)	75	090226280	Button Shaft
10	090226243	Lever Spring (C)	76	090221225	Button Lever
11	090226244	Pause Lever Spring	77	090221226	Lock Cam (F)
12	090221198	Rec Lever (B)	78	090226281	Lock Cam Spring
13	090221199	Shift Arm (A)	79	090221227	Rec Arm
14	090221200	Shift Arm (B)	80	090221228	Cassette Case
15	090226244	Gear (A)	81	090221229	Cassette Pocket (L)
16	090226245	Gear (B)	82	090221230	Cassette Pocket (R)
17	090221201	Gear Lock Arm (A)	83	090221231	Damper Link Assy
18	090221202	Gear Lock Arm (B)	84	090227236	Case Collar
19	090221203	Shift Arm (A) Spring	85	090221232	Damper Bracket
20	090221204	Lock Arm (B) Spring	86	090221233	Damper Assy
21	090221203	Brake Lever	87	090221234	Case Bracket Assy
22	090226249	Brake Shoe	88	090221235	Case Lock Arm
23	090221204	FF Idler Arm Assy	89	090221236	Eject Lever
24	090226250	FF Gear	90	090226158	Pause Lever Spring
25	090226251	FF Gear Spring	91	090226282	Case Spring
26	090221205	Reel Base Assy	92	770911197	Push Nut 1.9φ x 6φ x 0.25t
27	090226252	Quick Action Switch	93	651010113	Steel Ball 2φ
28	090226253	Auto Gear	94	770500109	Polyslider Washer 1.2φ x 5φ x 0.25t
29	090221206	Sensor Arm	95	770500110	Polyslider Washer 1.7φ x 3.5φ x 0.25t
30	090221207	Auto Arm	96	770500087	Polyslider Washer 2.6φ x 4.7φ x 0.25t
31	090226254	Sensor Arm Spring	97	770500111	Polyslider Washer 3.2φ x 6φ x 0.25t
32	090226255	Auto Arm Spring	98	770500112	Polyslider Washer 4.7φ x 9φ x 0.5t
33	090221208	Auto Clutch Assy	99	770500056	Nylon Washer 24φ x 5φ x 0.5t
34	090226256	Tension Spring	100	090227237	Nylon Washer
35	090226257	Bush	101	090227207	Plain Washer (S) 2φ
36	090221209	Play Arm	102	770500003	Plain Washer (L) 32φ x 8φ x 0.5t
37	090226258	Play Idler	103	090227238	Binding Screw
38	090226259	Play Arm Spring	104		
39	090221210	T Reel Assy	105	090227239	Washer Head Screw
40	090221211	S Reel Assy	106		
41	090226260	Back Tension Spring	107		
42	090221212	FR Pulley Arm Assy	108		
43	090221213	Rew Arm	109	763202604	Tap Tite Screw 2.6 x 4
44	090226261	FR Pulley Arm SP. (A)	110	763222604	Tap Tite Screw (BL) 2.6 x 4
45	090226262	FR Pulley Arm SP. (B)	111	763202606	Tap Tite Screw 2.6 x 6
46	090226263	Shift Arm (B) Spring	112	763222608	Tap Tite Screw (BL) 2.6 x 8
47	090221214	Auto Lock Arm	113	763202608	Tap Tite Screw 2.6 x 8
48	090226264	Auto Lock Arm Spring	114	723202006	Tapping Screw 2 x 6
49	090221215	FR Lock Arm (N)	115	723202012	Tapping Screw 2 x 12
50	090221216	Head Chassis	116	723202606	Tapping Screw 2.6 x 6
51	090221217	Head Base	117	770500005	E Ring 2φ
52	090226265	Head Base Spring	118	770500027	E Ring 2.5φ
53	090226266	Head Spring	119	770500040	E Ring 4φ
54	090226267	Head Spring	120	703202603	Pan Pan Screw 2.6 x 3
55	090226268	Head Chassis Spring	121		
56	090221218	Cassette Guide (R)	122		
57	090221219	Cassette Guide (L)	123	090221237	Pause Switch Bracket
58	090226269	FR Lock Arm Spring	124	615212288	Leaf Switch LSA-1123-29
59	090226270	Brake Spring	125		
60	090221220	Pause Cam	126	090221238	Sub Bracket (C)
61	090226271	Pause Cam Spring	127		
62	090221221	P. Roller Arm Assy	128	241001125	RP Head
63	090226272	P. Roller Spring	129	241001126	E Head
64	090226273	Pack Spring	130	260101130	Motor
65	090221222	Rec Sensor			
66	090226274	Rec Sensor Spring			