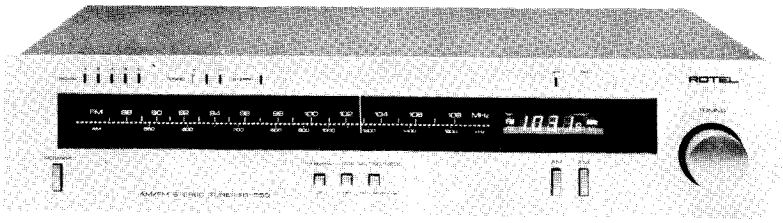
ROTEL®

Technical Manual



AM/FM STEREO TUNER

RT-550

MW/LW/FM STEREO TUNER

RT-550L

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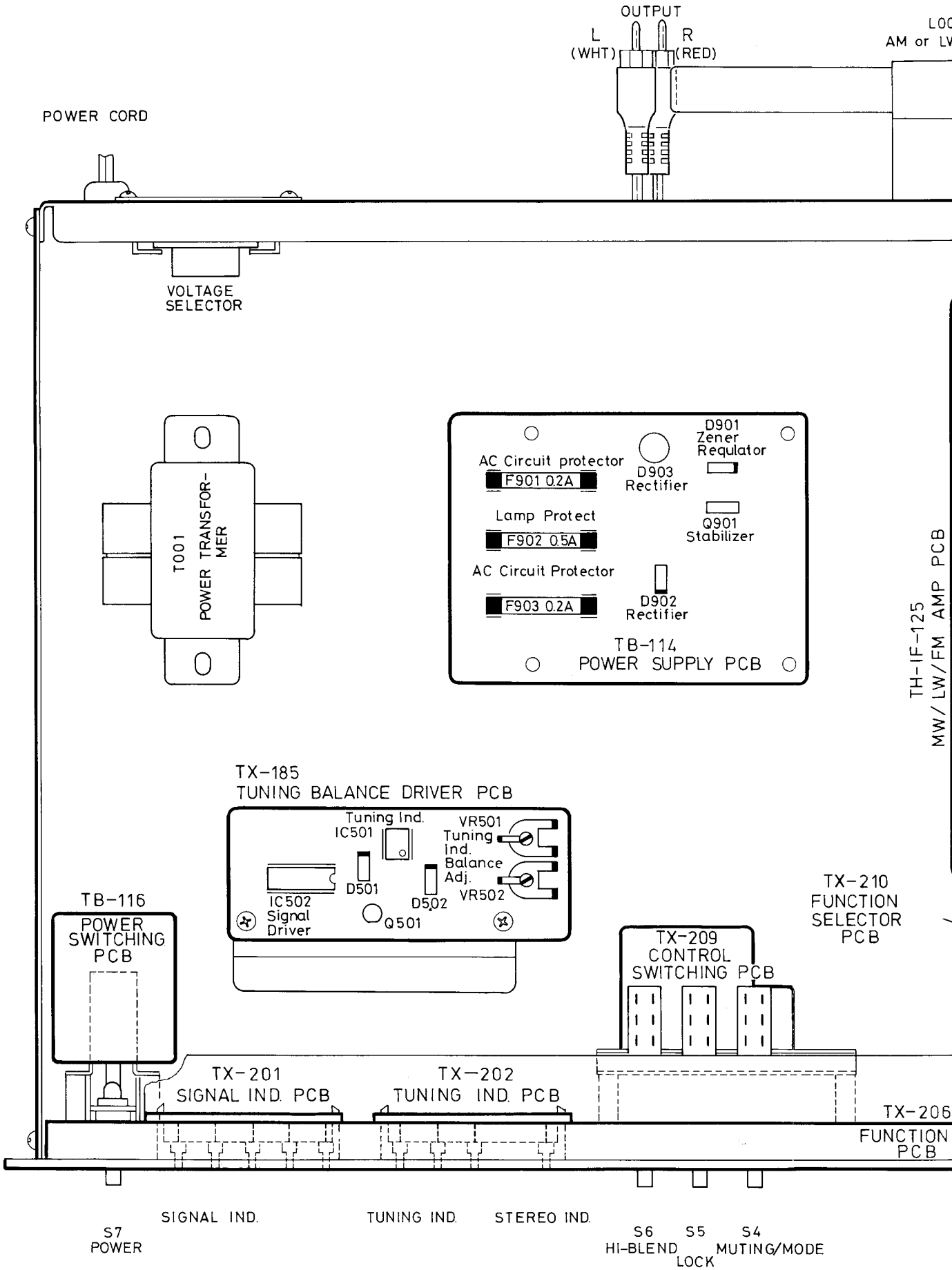

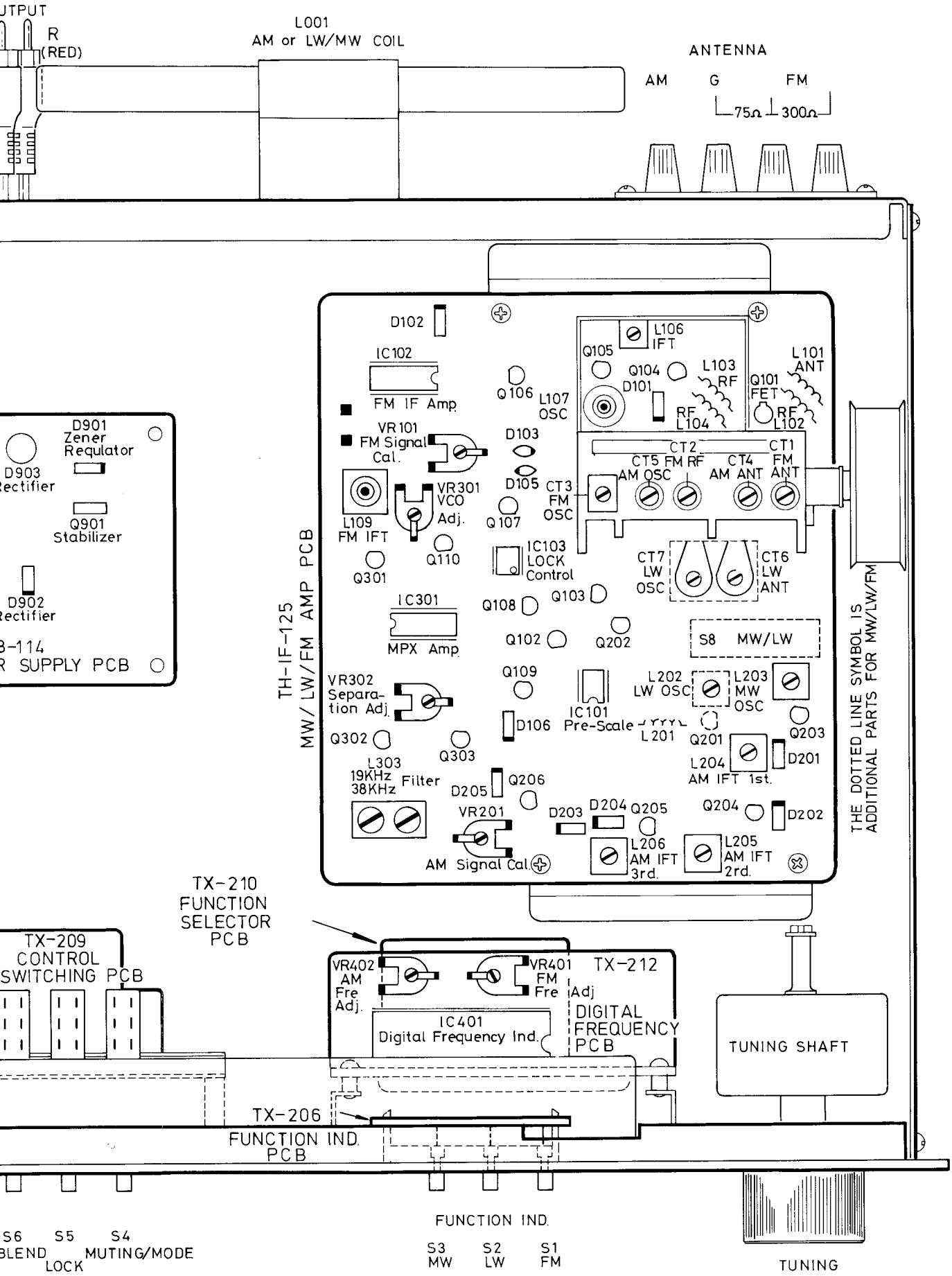
UTPUT
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MW/LW/FM AMP PCB
THE DOTTED LINE SYMBOL IS
ADDITIONAL PARTS FOR MW/LW/FM
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Requlator
D903
Rectifier
Q901
Stabilizer
D902
Rectifier
B-114
R SUPPLY PCB
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FUNCTION
SELECTOR
PCB
TX-209
CONTROL
SWITCHING PCB
VR402
AM
Fre
Adj.
VR401
FM
Fre
Adj
TX-212
IC401
Digital Frequency Ind.
DIGITAL
FREQUENCY
PCB
TUNING SHAFT
TX-206
FUNCTION IND.
PCB
S6
BLEND
S5
LOCK
S4
MUTING/MODE
FUNCTION IND.
S3
MW
S2
LW
S1
FM
TUNING

AM IF and RF Alignment/ Signal Indicator Calibration

Instruments: AM Signal Generator (400Hz 30% Modulated), AC VTVM and Oscilloscope.

AM IF Alignment (AM/FM, MW/LW/FM)

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	Pin No. 15 (on IF board through a 0.01 mfd Capacitor)	455KHz	No interfering at low end of scale	L204, L205 and L206 (on IF board)	Maximum reading on AC VTVM.

MW RF and Frequency Display Alignment (AM/FM, MW/LW/FM)

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	Test Loop Radiate signal into ferrite loop-stick antenna.	600KHz	600KHz	L203 (OSC) and L001 (ANT) lead line side	Maximum reading on AC VTVM.
2		1400KHz	1400KHz	CT5 (OSC) and CT4 (ANT)	
3		1000KHz	1000KHz	VR402	Frequency Display indicates 1000KHz
4	(Input 100mV)	1000KHz	1000KHz	VR201	5 LEDS just light up (Signal Stregth indicator)

LW RF Alignment (MW/LW/FM only)

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	Test Loop Radiate signal into ferrite loop-stick antenna.	160KHz	160KHz	L202 (OSC) and L001 (ANT) against the lead line side	Maximum reading on AC VTVM.
2		330KHz	330KHz	CT7 (OSC) and CT6 (ANT)	

FM IF and RF Alignment/ Tuning and Signal Indicator Calibration

Instruments: FM Signal Generator (400Hz, 100% Modulated), H.D. Analyzer, Oscilloscope, AC VTVM and Tuning Meter.

Step	Generator		Tuning Dial	Adjust	Adjust for
	Coupling	Frequency	Setting		
1	Antenna terminal	90MHz	90MHz	L107 (OSC)	Maximum reading on AC VTVM.
2		106MHz	106MHz	CT3 (OSC)	
3	Repeat steps 1 and 2 unit no further improvement is noticed.				
4	Antenna terminal	90MHz	90MHz	L101, L102, L103 and L104 (RF)	Maximum reading on AC VTVM.
5		106MHz	106MHz	CT1 (ANT) and CT2 (RF)	
6		98MHz	98MHz	L106 (IFT)	
7	Repeat steps 4 and 5 unit no further improvement is noticed.				
8	Antenna terminal (1mV Input)	98MHz	No interfering	L109 (low core)	Tuning Meter to "Center" position
			Connect Tuning Meter to TP1 and TP2 (on IF Board)		
9			98MHz	L109 (upper core)	Minimum reading on H.D. Analyzer
10			98MHz	VR401	Frequency Display indicates 98MHz
11			98MHz	VR101	5 LEDs just light up. (Signal strength indicator)
12			98MHz-50KHz	VR501	Left LED just light up (FM Tuning indicator)
13			98MHz+50KHz	VR502	Right LED just light up. (FM Tuning indicator)

FM MPX Alignment

Instruments: FM Stereo Generator, AC VTVM and Oscilloscope.

Step	Generator		Tuning Dial	Adjust	Adjust for
	Coupling	Frequency	Setting		
1	Antenna terminal	98MHz Pilot.....10% 1KHz.....90% Mod.	98MHz	VR301	Stereo indicator light up.
2				VR302	best separation
3	Check the stereo indicator can be operated normally when pilot signal is reduce from 10% to 6%.				

MW-ZF und HF Einstellung/ MW-Signalstärkeanzeige-Eichung

Instrumente: MW-Messender (400Hz 30% moduliert), Wechselstrom-Roehrenvoltmeter und Oszillograph.

MW-ZF Einstellung (MW/UKW, MW/LW/UKW)

Schritt	Messender		Abstimmskalen Einstellung	Abgleich	Abgleich auf
	Anschluss	Frequenz			
1	Steckerstift 15 (auf ZF-leiterplatte ueber 0.01 MF Kondensator)	455KHz	Kine Interfenz am unteren skalenende	L204, L205 und L206 (auf ZF-Leiterplatte)	Maximalanzige am Roehrenvoltmeter

MW-HF und Frequenzanzeige-Einstellung (MW/UKW, MW/LW/UKW)

Schritt	Messender		Abstimmskalen Einstellung	Abgleich	Abgleich auf
	Anschluss	Frequenz			
1	Mess-Signal mit Schleife in Ferrit antenna einspeisen.	600KHz	600KHz	L203 (OSZ) und L001 (ANT) Lotleine-Seite	Maximalanzige am Roehrenvoltmeter
2		1400KHz	1400KHz	CT5 (OSZ) und CT4 (ANT)	
3		1000KHz	1000KHz	VR402	Frequenzanzeige gibt 1000KHz an.
4	(Antennekl-ennenspannung 1mV)	1000KHz	1000KHz	VR201	füaf LEDS leuhtet recht auf. (Signal-stärkeanzeige)

LW-HF Einstellung (MW/LW/UKW nur)

Schritt	Messender		Abstimmskalen Einstellung	Abgleich	Abgleich auf
	Anschluss	Frequenz			
1	Mess-Signal mit Schleife in Ferrit antenna einspeisen	160KHz	160KHz	L202 (OSZ) und L001 (ANT) gegen Lotleine-Seite	Maximalanzeign am Roehrenvoltmeter
2		330KHz	330KHz	CT7 (OSZ) und CT6 (ANT)	

UKW-ZF und HF-Einstellung/Ratiomitteanzeige und Signalstärkeanzeige-Eichung

Instrumente: UKW-Messender (400Hz 100% Moduliert), Kirrfaktomesser, Oszillograph, Wechselstrom-Roehrenvoltmeter

Schritt	Messender		Abstimmskalen	Abgleich	Abgleich auf
	Anschluss	Frequenz	Einstellung		
1	Antennenkl-emmen anschliessen	90MHz	90MHz	L107 (OSZ)	Maximalanzeige zm Roehrenvoltmeter
2		106MHz	106MHz	CT3 (OSZ)	
3	Schritt 1 und 2 weiderholen, bis kein weitere Verbesserung eintritt.				
4	Antennekl-emmen ansch-liessen	90MHz	90MHz	L101, L102, L103 and L104 (HF)	Maximalanzeige am Roehrenvoltemeter
5		106MHz	106MHz	CT1 (ANT) and CT2 (HF)	
6		98MHz	98MHz	L106 (IFT)	
7	Schritt 4 und 5 weiderholen, bis kein weitere Verbesserung eintritt.				
8	(Antennekl-emmen ensp-annung 1mV)	98MHz	KEINE Interferenz	L109 (low core)	Abstimmanzeiger auf "Center" stellen.
			Schliessen Sie mit Abstimmanzeiger zu TP1 und TP2 an. (Auf IF Brett)		
9			98MHz	L109 (upper core)	Minimalanzeige am Klirrfaktormesser
10			98MHz	VR401	Frequenzanzeige gibt 98MHz an.
11			98MHz	VR101	fünf LEDS leuhtet recht auf. (Signal-stärkeanzeige)
12			98MHz-50KHz	VR501	Links-LED leuchtet recht auf. (UKW-Ratiomitteanzeige)
13			98MHz+50KHz	VR502	Rechts-LED leuchet recht auf. (UKW-Ratiomitteanzeige)

UKW MPX-Einstellung

Instrumente: UKW-stereo Messender, Roehrenvoltmeter und Oszillograph.

Schritt	Messender		Abstimmskalen	Abgleich	Abgleich auf
	Anschluss	Frequenz	Einstellung		
1	Antennekl-emmen anschliessen	98MHz Pilotton.....10% 1KHz.....90% Moduliert.	98MHz	VR301	Stereoanzeige leuchtet auf.
2				VR302	beste Trennung
3	Einwandfreier Stereoanzeigebetrieb muss auch noch gewahrleistet sein, wenn der Stereopilotton von 10% auf 6% reduziert wird.				

Alignement AM IF et HF/ Indicateur de nivea de signal

Instruments: Générateur de signal AM (400Hz 30% modulé) AC VTVM et Oscilloscope.

Alignement AM IF (AM/FM, MW/LW/FM)

Point	Générateur		Ecran d'accord	Réglage	Réglage pour
	Couplage	Fréquence			
1	Brouche No. 15 (Sur IF plaquette par l'intermédiaire dún condensateur de 0.01 mfd.	455KHz	Non interférence a l'extrémité de l'èchelle	L204, L205 et L206 (sur la plaquette IF)	Lecture maximum sur le voltmètre électronique AC VTVM.

Alignement MW HF et d'affichage de frequence (AM/FM, MW/LW/FM)

Point	Générateur		Ecran d'accord	Réglage	Réglage pour
	Couplage	Fréquence			
1	Boucle de mesure Envoyée le signal sur ferrite à boucle	600KHz	600KHz	L203 (OSC) et L001 (ANT) Côté de ligne de connecion	Lecture. maximum sur AC VTVM.
2		1400KHz	1400KHz	CT5 (OSC) et CT4 (ANT)	
3		1000KHz	1000KHz	VR402	l'affichage de Frequence indique 1000KHz.
4	(1mV absorbée)	1000KHz	1000KHz	VR201	5 LEDS allume seulement (Indicateur de force du signal)

Alignement LW HF (MW/LW/FM seulement)

Point	Générateur		Ecran d'accord	Réglage	Réglage pour
	Couplage	Fréquence			
1	Boucle de mesure Envoyée le signal sur ferribe à boucle	160KHz	160KHz	L203 (OSC) et L001 (ANT) contre le côté de ligne de connexion	Lecture maximum sur AC VTVM.
2		330KHz	330KHz	CT7 (OSC) et CT6 (ANT)	

Alignement FM IF et HF/Indicateur de synonisation et de force du signal

Instruments: (400Hz, 100% modulé) Analyseur H.D., Oscilloscope, AC VTVM et Compteur de syntonisation.

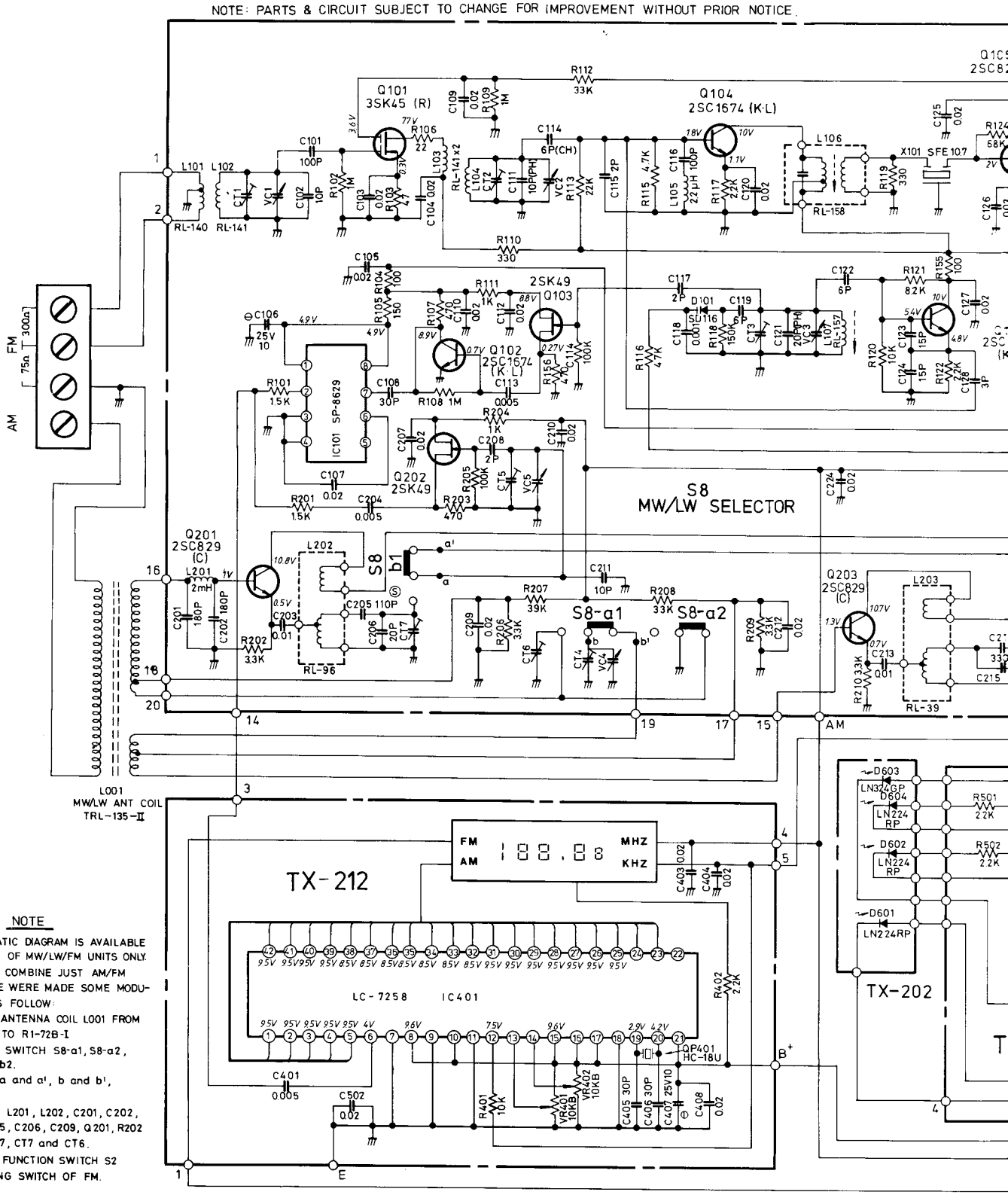
Point	Générateur		Ecran d'accord	Réglage	Réglage pour
	Couplage	Fréquence			
1	Borne d'antenne	90MHz	90MHz	L107 (OSC)	Lecture maximum sur AC VTVM
2		106MHz	106MHz	CT3 (OSC)	
3	Répéter les points 1 et 2 jusqu'aucun perfectionnement est marqué.				
4	Brone d'antenne	90MHz	90MHz	L101, L102, L103 et L104 (RF)	Lecture maximum sur AC VTVM.
5		106MHz	106MHz	CT1 (ANT) et CT2 (RF)	
6		98MHz	98MHz	L106 (IFT)	
7	Répéter les points 4 et 5 jusqu'aucun perfectionnement est marqué				
8	Borne d'antenne (1mV absor bée)	98MHz	non interférence	L109 (nogau bas)	Lecture de syntonisation à la position "Centrole"
			Relier le Comptenr de synonisation á TP1 et TP2 (sur IF plaquette)		
9			98MHz	L109 (nogau haut)	Lecture maximum sur Analyseur H.D.
10			98MHz	VR401	l'affichage de Frequence indique 98MHz
11			98MHz	VR101	5 LEDS allument seulement (Indicateur de force du signal)
12			98MHz-50KHz	VR501	LED gauche allume seulement (Indicateur de syntonisation FM)
13			98MHz+50KHz	VR502	LED droit allume seulement (Indicateur de syntonisation FM)

Alignement FM MPX

Instruments: FM stéréo Générateur, AC VTVM et Oscilloscope.

Point	Générateur		Ecran d'accord	Réglage	Réglage pour
	Couplage	Fréquence			
1	Borne d'antenne	98MHz lampe témoin 10% 1KHz 90% Mod.	98MHz	VR301	Indicateur stéréo allume
2				VR302	Séparation la plus meilleure
3	Eraminer l'indicateur stéréo peut être opéré normalement lorsque le signal de lampe témoin est véduite de 10% à 6%				

Schematic Diagram/Schaltungsschema/Diagramme s

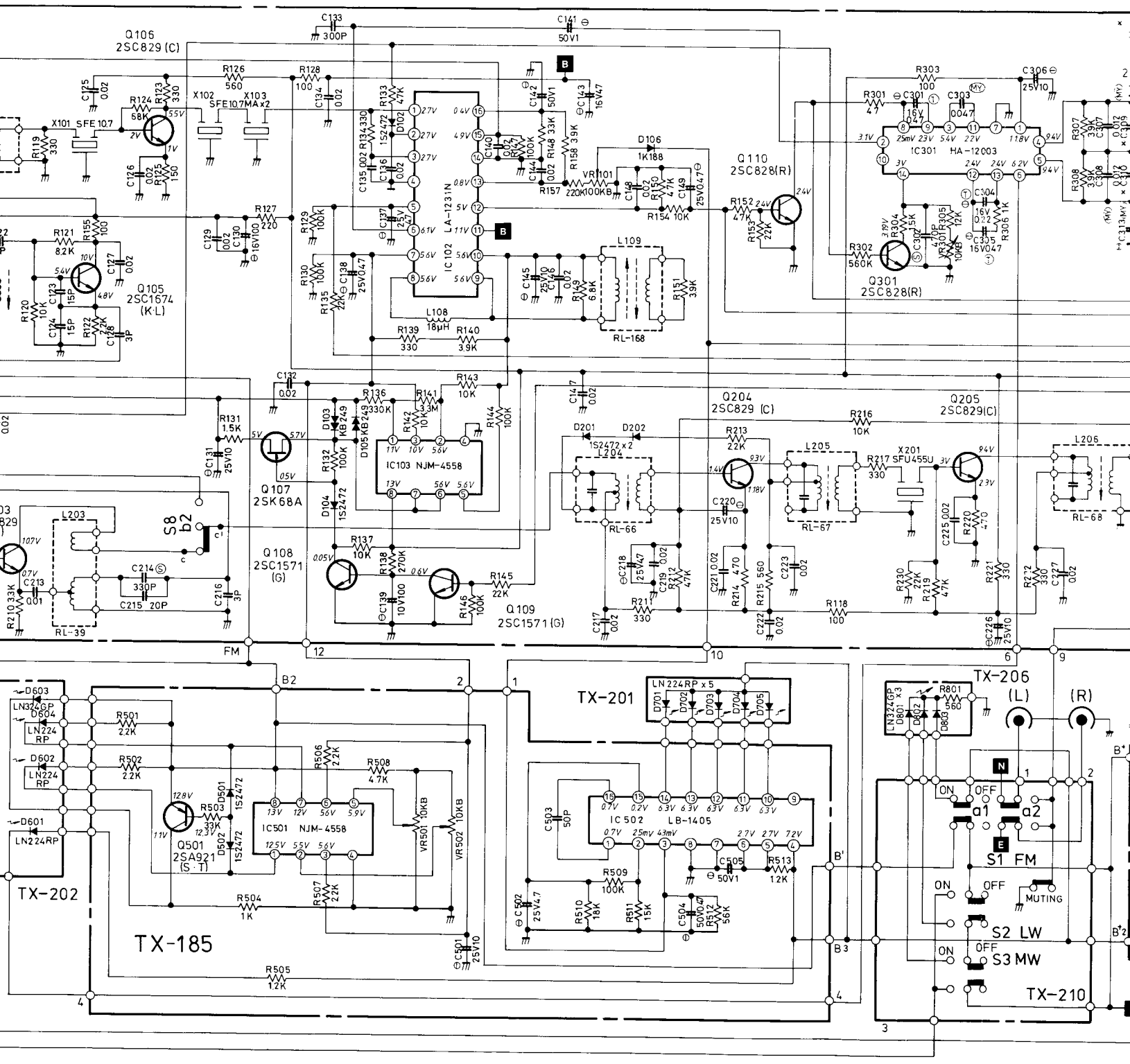


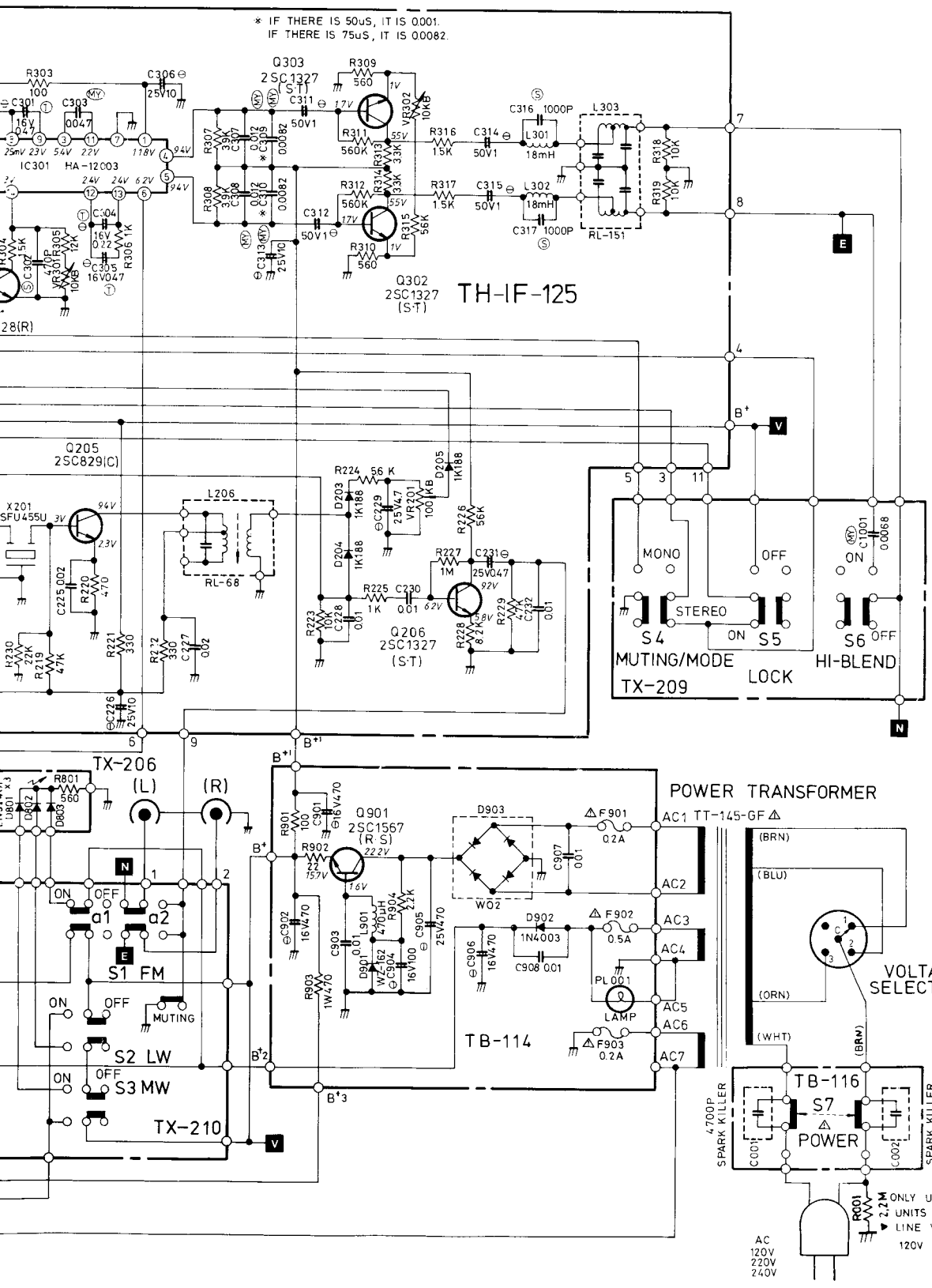
NOTE

THE SCHEMATIC DIAGRAM IS AVAILABLE COMBINATION OF MW/LW/FM UNITS ONLY. WHEN UNITS COMBINE JUST AM/FM ONLY THERE WERE MADE SOME MODU-FICATION AS FOLLOW:

1. CHANGED ANTENNA COIL L001 FROM TRL-135-II TO R1-728-I
2. CANCELED SWITCH S8-a1, S8-a2, S8-b1, S8-b2.
3. SHORTED a and a', b and b', c and c'.
4. CANCELED L201, L202, C201, C202, C203, C205, C206, C209, Q201, R202 R206, R207, CT7 and CT6.
5. CANCELED FUNCTION SWITCH S2 and MUTING SWITCH OF FM.

ramme schématique





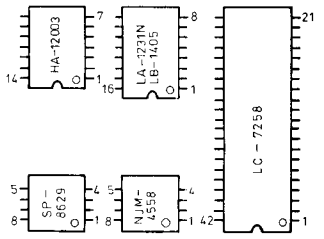
RESISTOR

5% ---- TOLERANCE UNLESS OTHERWISE NOTE
K ---- KILO OHM
M ---- MEGA OHM
▼ ---- COMPOSITION RESISTORS
NON MARK--- LOW TYPE CARBON RESISTORS

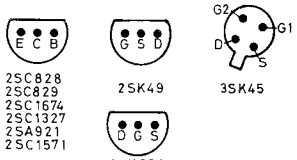
CAPACITOR

(MY) --- MYLAR CAPACITORS
(T) --- TANTALUM CAPACITORS
(S) --- POLYSTYRENCE FILM CAPACITORS
⊣⊢ --- ELECTROYTIC CAPACITORS
NON MARK CERAMIC CAPACITORS
UNLESS OTHERWISE NOTED IN SCHMATIC
ALL CAPACITANCE VALUME ARE EXPRESSED IN MFD

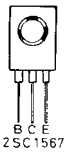
TOP VIEW



BOTTOM VIEW

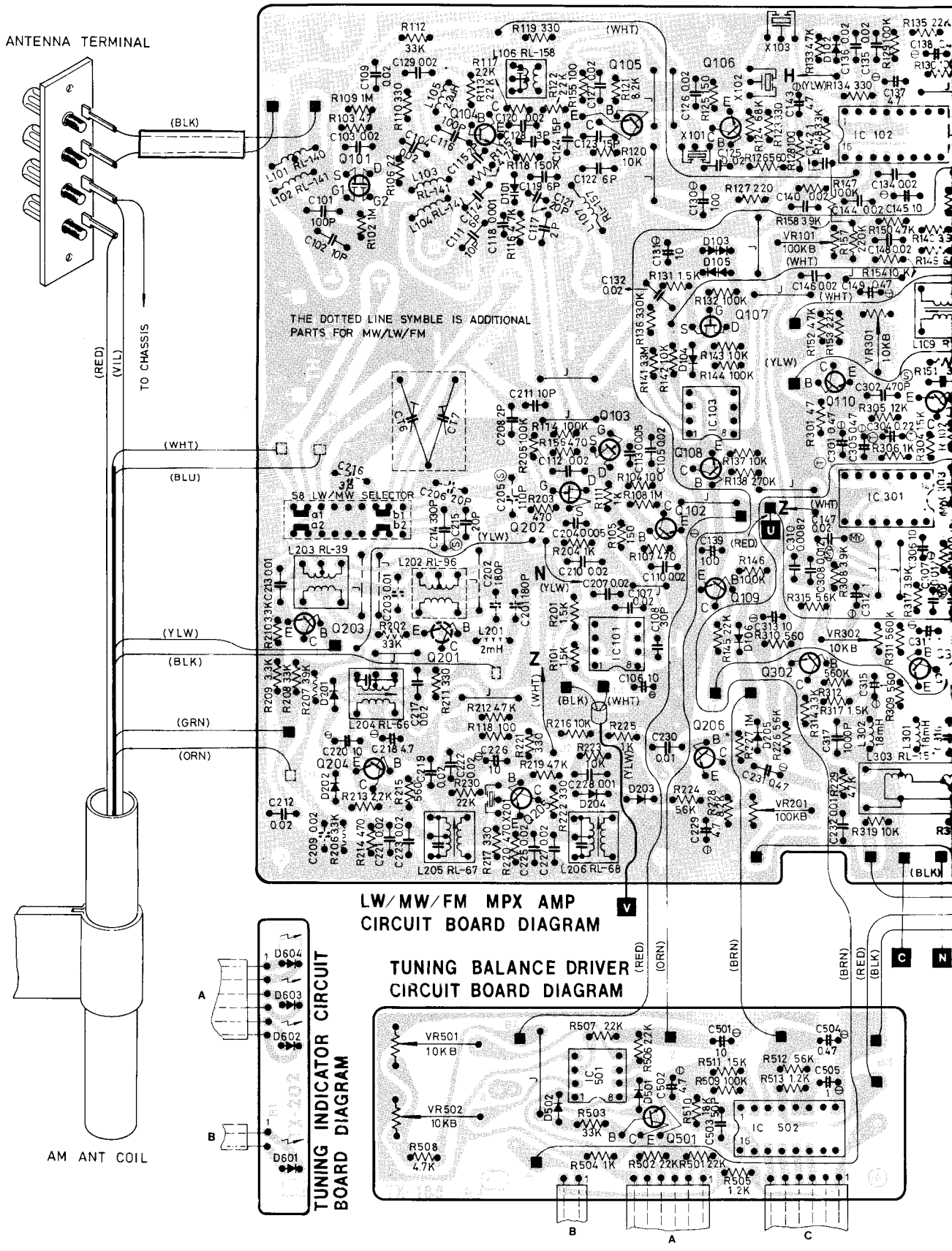


SIDE VIEW

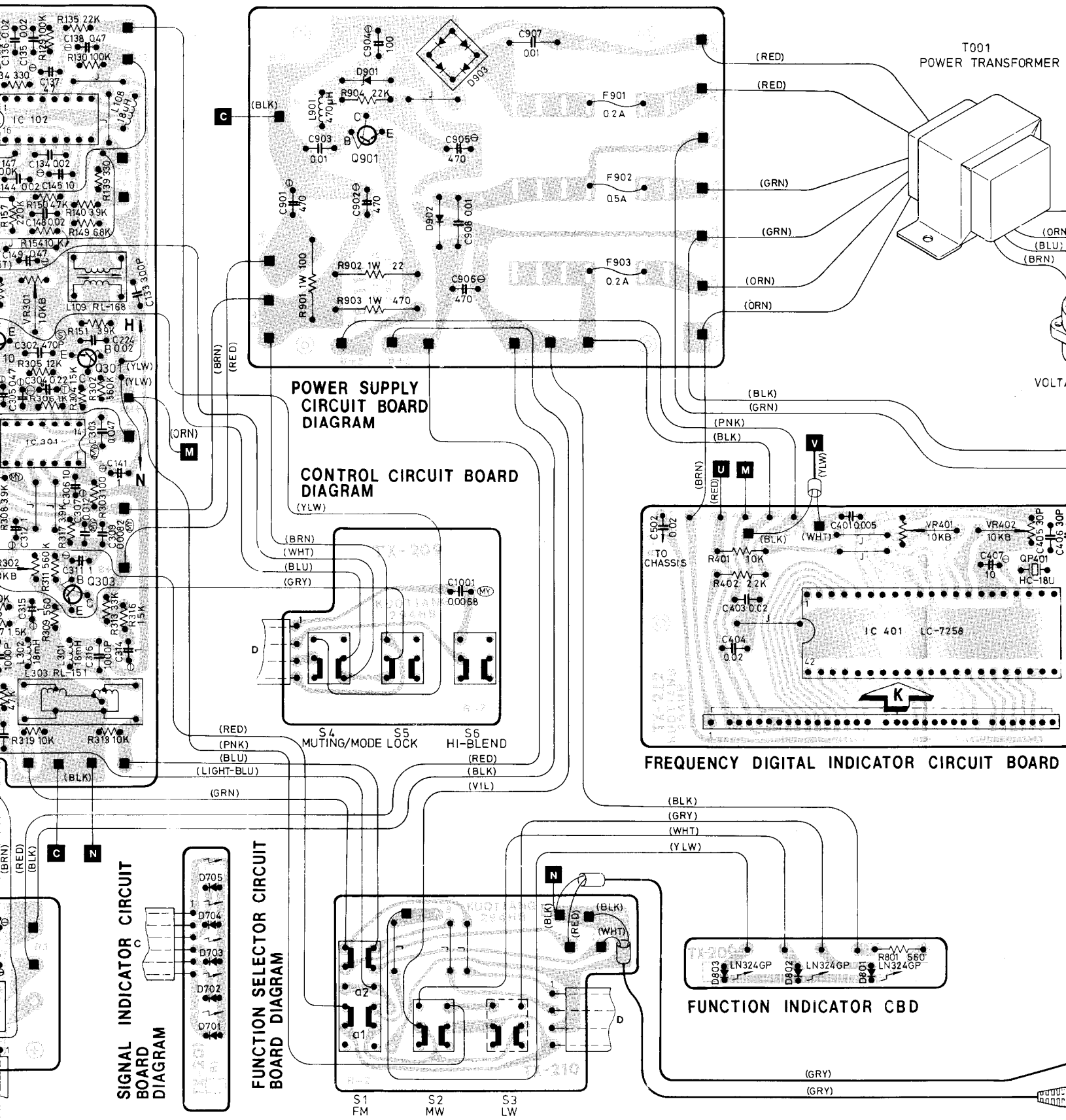


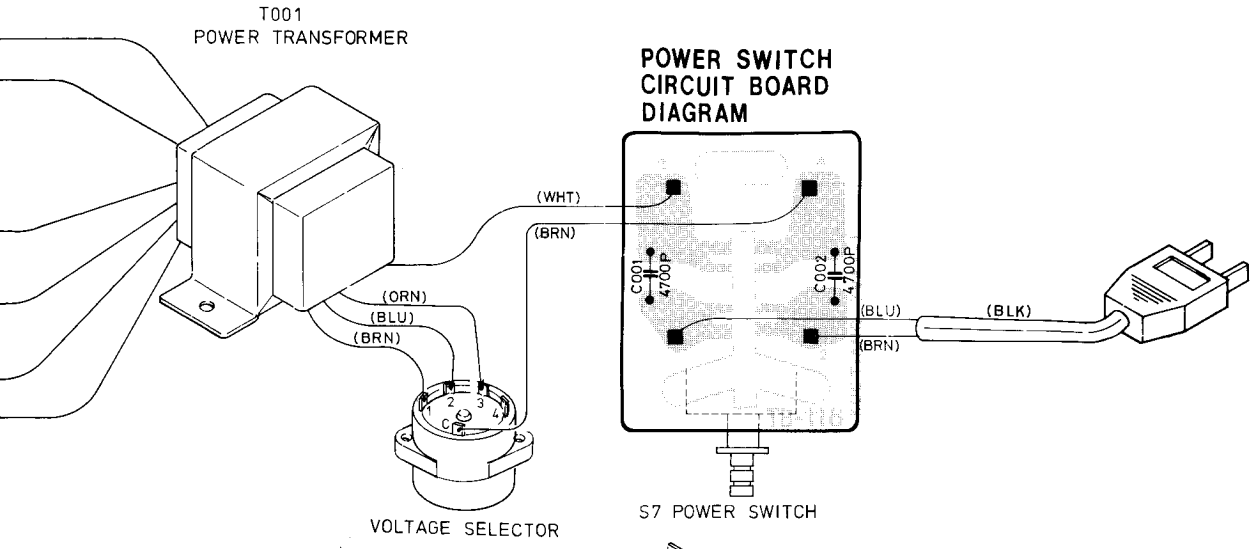
ITEM	SCHEMATIC LOCATION (LAST)	
FM IF AMP	R158	C149
AM IF AMP	R230	C232
FM MPX AMP	R319	C317
FREQUENCY DIGIT IND.	R402	C408
TUNING BALANCE DRIVER	R513	C505
FUNCTION IND.	R801	—
POWER SUPPLY	R904	C908
CONTROL	—	C1001
POWER SWITCH	—	C002

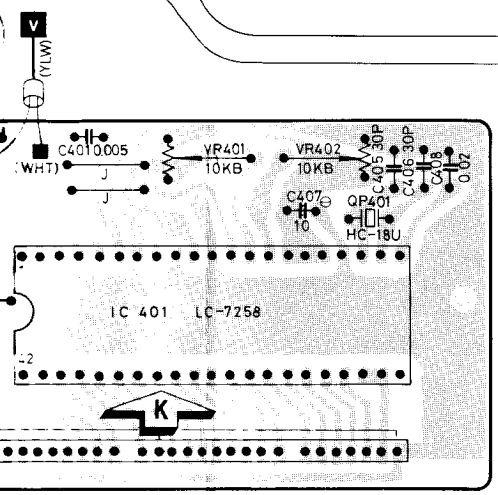
Wiring Diagram/Drahtleitung Diagramm/Diagram



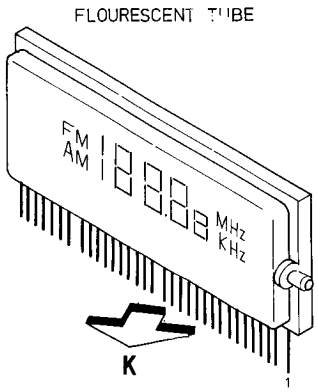
agramme de.connexion

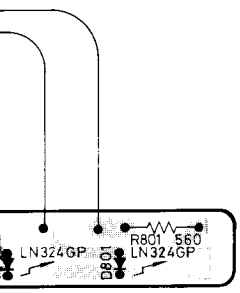




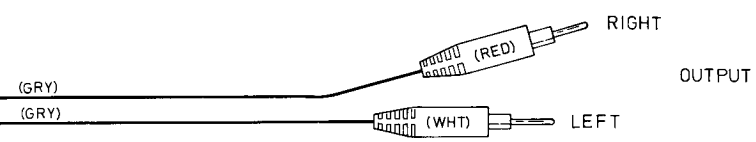


TAL INDICATOR CIRCUIT BOARD DIAGRAM





NDICATOR CBD



Repair Parts List/Reparaturteilliste/ Liste des pièces de.rechange

TRANSISTORS, DIODES AND IC'S

Schematic Location	Parts No.	Description
Q101	302001128	3SK45 (R), FM IF Amp.
Q102	301201163	2SC1674(K,L), Frequency Interface
Q103	302001112	2KS49, Frequency Interface
Q104,105	301201163	2SC1674 (K,L), FM MIX, OSC
Q106	301201117	2SC829 (C), FM IF Amp.
Q107	302001113	2SK68A, Lock control
Q108,109	301201202	2SC1571 (G), Lock Control
A110	301201115	2SC828 (R), for Switching
Q201	301201117	2SC829 (C), Conversion (MW/LW/FM only)
Q202	302001112	2SK49, Interface
Q203	301201117	2SC829 (C), Conversion
Q204-206	301201117	2SC829 (C) Audio Amp.
Q301	301201115	2SC828(R), for Switching
Q302,303	301201134	2SC1327 (S,T), Audio Amp.
Q501	301001145	2SA921 (S,T), Signal Ind. Driver
Q901	301201150	2SC1567 (R,S), Stabilizer
D101	300616101	SD116, Variable Capacity
D102	300111010	1S2472, for Switching
D103,105	300212004	KB269, Variable Resistance
D104	300111010	1S2472, Bias
D106	300111008	1K188, Meter Rectifier
D201,202	300111010	1S2472, AGC Detector
D203-205	300111008	1K188, AGC Detector, Rectifier
D501,502	300111010	1S2472, Tuning Ind. Switching
D601,602, D604	300414042	LN224RP, Tuning, Stereo Ind.
D603	300414040	LN324GP, Tuning Ind. (Green)
D701-705	300414042	LN224RP, Signal Ind.
D801-803	300414040	LN324GP, Function Ind.
D901	300313017	WZ-162, Zener Regulator 16V 1/2 W
D902	300919026	1N4003, Rectifier
D903	300919011	W02, Rectifier
IC101	303452203	SP6829, Pre-Scale
IC102	303452251	HA1125, FM IF Amp.
IC103	303452152	NJM4558DD, Lock Control
IC301	303452250	HA12003, MPX Decorder
IC401	303452257	LC7258, Digital Frequency Ind.
IC501	303452152	NJM4558DD, Tuning Ind. Decorder
IC502	303452188	LB1405, Signal Ind. Decorder

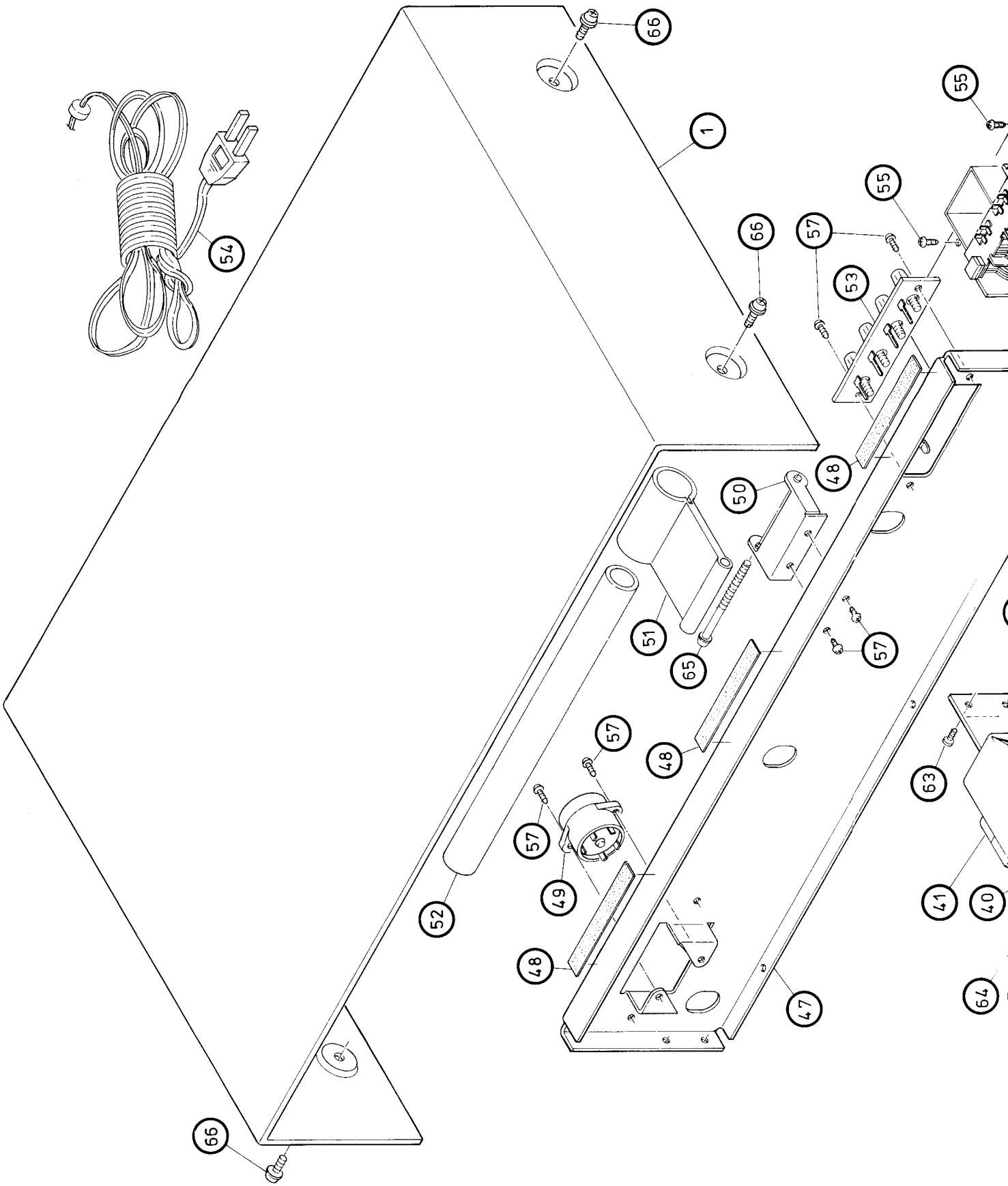
COILS AND VARIABLE RESISTORS

Schematic Location	Parts No.	Description
L001	222391143	AM ANT Coil (AM/FM)
	222391152	MW/LW ANT Coil (MW/LW/FM)
L101	226501131	FM ANT Coil
L102-104	226501132	FM RF Coil
L105	226501143	2.2uH, FM IF Trap Coil
L106	225501142	FM IFT
L107	226501161	FM OSC Coil
L108	226501125	18uH, Moving Phase
L109	225501139	FM IFT Quadrature Detector
L201	226501142	2mH, LW Filter (MW/LW/FM only)
L202	223301129	LW OSC (MW/LW/FM only)
L203	223301127	MW OSC
L204	225301131	AM IFT 1st.
L205	225301132	AM IFT 2nd.
L206	225301133	AM IFT 3rd.
L301,302	228641180	18mH, 38KHz Filter
L303	228641137	19KHz, 38KHz Filter
L901	226501127	470uH, chocke Coil
VR101,201	510502195	100KB, AM/FM Signal Ind. Adj.
VR301,302	510502194	10KB, FM MPX VCO Seperation Adj.
VR401,402	510502194	10KB, AM/FM Frequency Adj.
VR501,502	510502153	10KB, Tuning Ind. Balance Adj.

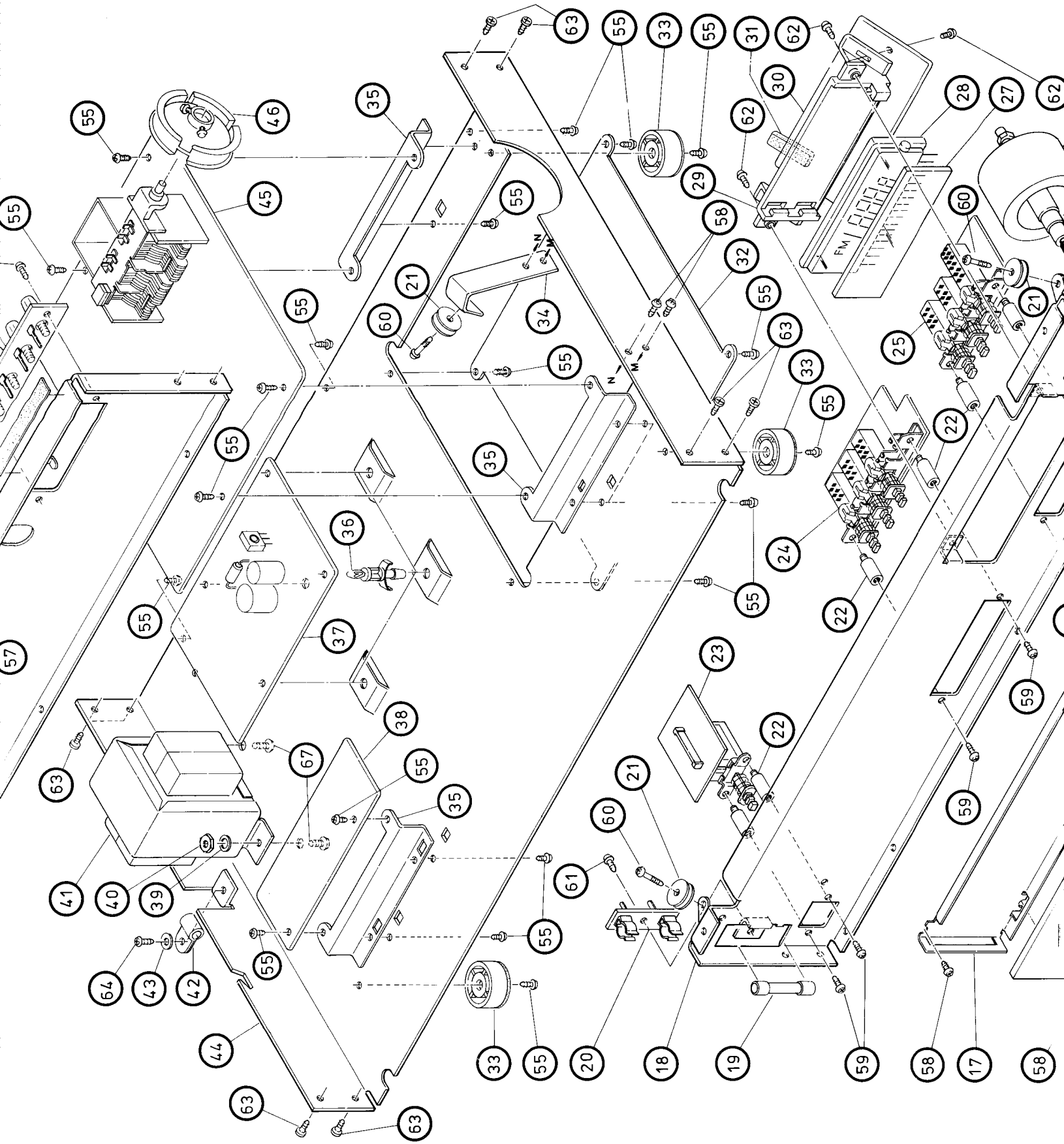
SWITCHES AND OTHERS

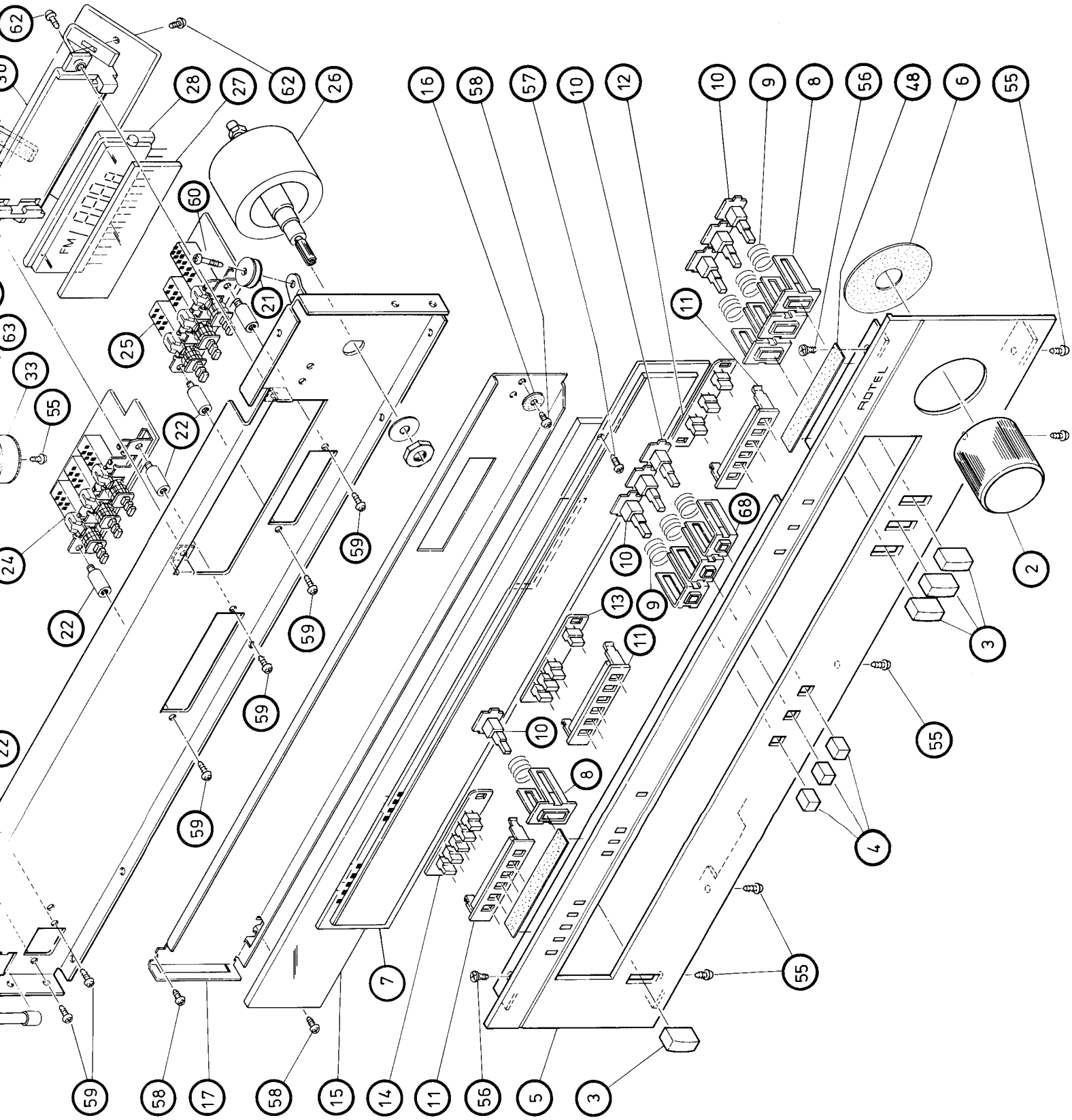
S1,2,3(1 Set)	614030834	Switch, Push 3-key, FM LW and MW (MW/LW/FM only)
S1,3(1 Set)	614030838	Switch, Push 2-key, FM and AM (AM/FM only)
S4,5,6(1 Set)	614040839	Switch, Push 3-key, Muting, Lock and Hi-Blend
S7	614010138	Switch, Power Supply (for BEAB)
	614010139	Switch, Power Supply
S8	615212282	Switch, Slide, MW/LW Selector (MW/LW/FM only)
X101,102	229101171	SFE-10. 7MA8-M, Ceramic Filter
X201	229101207	SFU-455E, Filter
QP401	224110007	HC-18U, Cystal Oscillator
CT6,7(1 Set)	490110113	AT-2-5, LW ANT/OSC Trimer (MW/LW/FM only)
F901,903	341221020	Fuse, 0.2A, AC Circuit/Frequency Display Protector (Long Size)
	345222020	Fuse, 200mA, AC Circuit/Frequency Display Protector (Mini Size)
	345252020	Fuse, 200mA, AC Circuit/Frequency (Mini Size with "S" Mark)
F902	341221050	Fuse, 0.5A, AC Circuit Protector (Long Size)
	345222050	Fuese, 500mA, AC Circuit Protector (Mini Size)
	345252050	Fuse, 500mA, AC Circuit Protector (Mini Size with "S" Mark)
	360201114	FIP7B8S, Frequency Display
	322420018	Air Variable Capacitor

Disassembly Diagram/Illustration des Auseinaderbaus



derbaus/Schéma de démontage




FM
ROTEL

Key No.	Parts No.	Description
1.	138011310	Upper Cover
2.	116310307	Knob, 33ϕ, Tuning
3.	116210073	Push Button, Function
4.	116210074	Push Button, Hi-Blend, Medo and Muting
5.	111911522	Front Panel Ass'y (AM/FM)
	111911523	Front Panel Ass'y (MW/LW/FM)
6.	990201330	Eelt, Knob 33ϕ
7.	114902328	Dial Window
8.	114902318	Frame, Push Button
9.	658601130	Spring, Frame
10.	114902320	Shaft, Frame
11.	114902322	Holder, Signal/Tuning/Func, Ind. PCB
12.	141811035	Function Ind. PCB Ass'y (AM/FM)
	141811036	Function Ind. PCB Ass'y (MW/LW/FM)
13.	141811034	Tuning Ind. PCB Ass'y
14.	141811033	Signal Ind. PCB Ass'y
15.	112011382	Dial Board (AM/FM)
1	112011383	Dial Board (MW/LW/FM)
16.	990201335	Felt, Dial Board
17.	120012969	Dial Alumimum Back Board
18.	122011418	Front Chassis Ass'y
19.	359101116	Lamp, Pilot 6.3V 250mV Blue
20.	648211135	Holder, Pilot Lamp
21.	651110019	Pulley
22.	770911263	Cylinder Bush, Inner Screw
23..	141811067	Power Switching PCB Ass'y (for BEAB . . .)
	141811068	Power Switching PCB Ass'y (for UL. CSA)
24.	141811070	Control Switching PCB Ass'y
25.	141811071	Function Switching PCB Ass'y (AM/FM)
	141811073	Function Switching PCB Ass'y (MW/LW/FM)
26.	654911289	Tuning Shaft
27.	114902337	Ornamental Board, Frequency Display
28.	360201114	Frequency Display
29.	114902338	Holder, Firequency Display
30.	141811074	Digital Frequency PCB Ass'y
31.		Sponge
32.	120012947	Mask, Chassis Body
33.	673402025	Plastic Foot
34.	120012946	Support, Pulley
35.	120012936	Support, PCB
36.	672200831	Plastic Support, PCB

Key No.	Parts No.	Description
37.	141811063	Power Supply PCB Ass'y (With Long Size Fuse)
	141811064	Power Supply PCB Ass'y (With Mini Size Fuse)
	141811065	Power Supply PCB Ass'y (With "S" "D" Mark Fuse)
38.	141811032	Tuning Balance Driver PCB Ass'y
39.	770500004	Washer, Spring, 4.5ϕ
40.	770402201	Nut, M4
41.	207001516	Transformer, Power Supply
42.	672200836	Cord Clamp
43.	770500003	Washer, 3.2ϕ
44.	121011350	Chassis Body
45.	141311395	AM/FM/MPX Amp PCB Ass'y (for 75uS)
	141311494	AM/FM/MPX Amp PCB Ass'y (for 50uS, AM/FM)
	141311396	AM/FM/MPX Amp PCB Ass'y (for 50uS, MW/LW/FM)
46.	651300022	Dial Pulley
47.	123011545	Printed Rear Chassis
48.	123011546	Printed Rear Chassis (for CSA)
48.	990201332	Felt
49.	648211247	Voltage Selector (Multi-Type)
50.	120012201	Support, Bar Ant. Coil
51.	648211111	Holder, Bar Ant. Coil
52.	222391142	Bar Ant. Coil (AM/FM)
53.	222391143	Bar Ant. Coil (MW/LW/FM)
53.	649201115	Terminal, Screw, 4P
54.	796301115	Line Cord (for CSA)
	796301149	Line Cord (for Europe)
	796301125	Line Cord (for Austria)
	796301138	Line Cord (for BEAB)
55.	726103006	Screw, +M3x6 BTV
56.	701203006	Screw, +M3x6 SMF
57.	726223006	Screw, +M3x6 BTV BK
58.	766203006	Screw, +M3x6 STV
59.	703213006	Screw, +M3x6 Pan
60.	770911264	Screw, +M3x10
61.	703213004	Screw, +M3x4
62.	766203008	Screw, +M3x8 STV
63.	722203008	Screw, +M3x8 JT20 BK
64.	726203008	Screw, +M3x8 BTV
65.	705223045	Screw, +M3x45 BK
66.	705224008	Screw, +M4x8 BK W/SP W
67.	765204010	Screw, M4x10 CTB
68.	114902319	Frame, Push Button

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