

CT 700 RS

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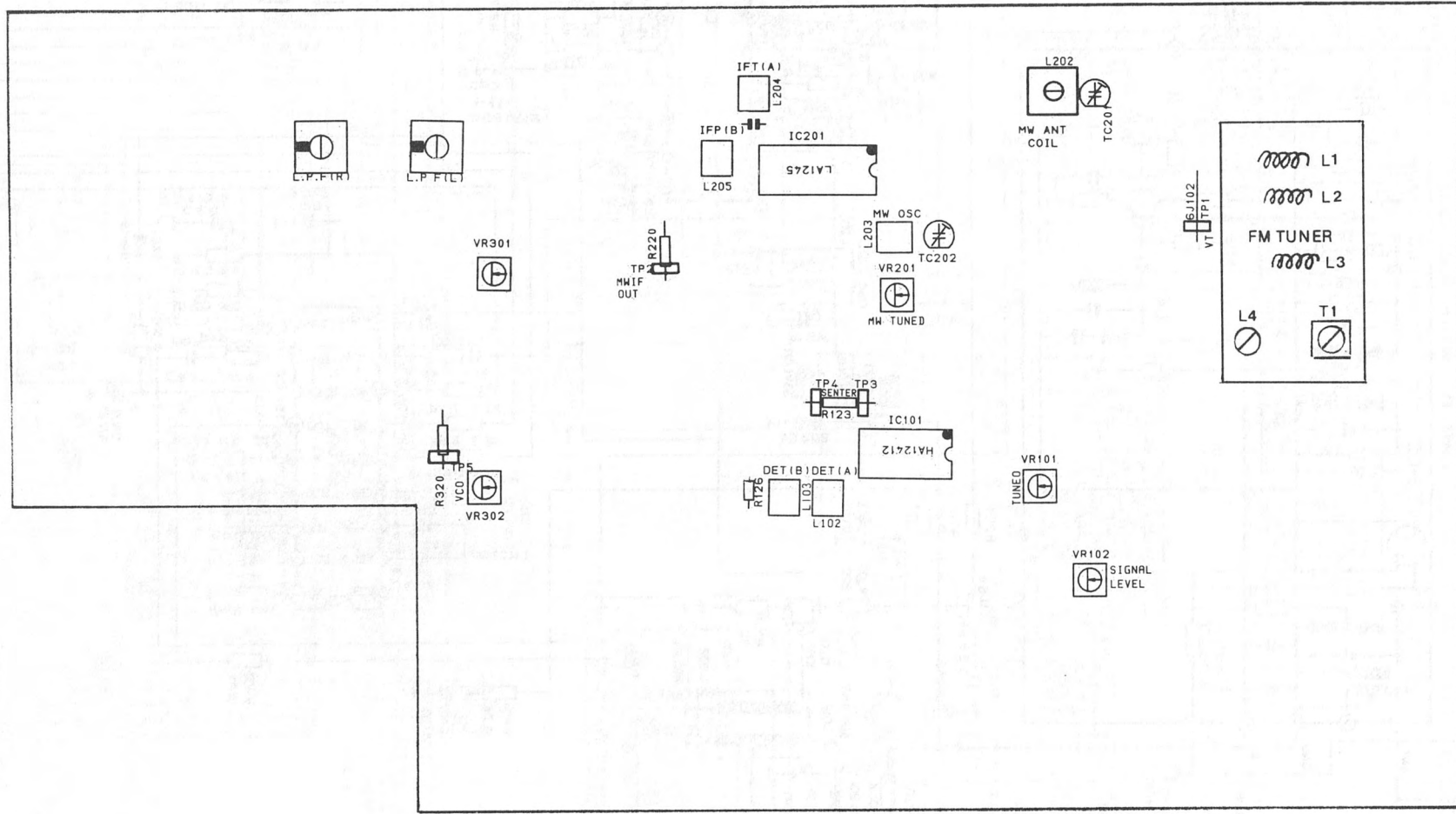
Technische Daten (typische Werte)	Specifications (typical values)	Caractéristiques techniques (valeurs types)	Dati tecnici (valori tipici)	Dual CT 700 RS
Empfangsbereiche FM (UKW) AM (MW)	Reception wavebands FM (VHF) AM (MW)	Games de fréquences FM (OC) AM (OM)	Campi di ricezione FM (OUC) AM (onde medie)	87,5– 108 MHz 522 –1611 kHz
Empfindlichkeit (an 75 Ω) FM – Mono (26 dB) FM – Stereo (46 dB)	Sensitivity (at 75 Ω) FM – mono (26 dB) FM – stereo (46 dB)	Sensibilité (à 75 ohms) FM – Mono (26 dB) FM – Stéréo (46 dB)	Sensibilità (su 75 ohm) FM – mono (26 dB) FM – stereo (46 dB)	0,9 µV 28 µV
Trennschärfe FM stat./dyn.	FM selectivity stat./dyn.	Sélectivité FM stat./dyn.	Selettività FM stat./din.	80/70 dB
Geräuschspannungsabstand	Signal/noise ratio	Rapport signal/bruit	Rapporto segnale disturbo	70 dB
Netzspannung Model Europa Model USA/Kanada	Mains voltage European model US/Canadian model	Voltage secteur Modèle Europe Modèle USA/Canada	Tensione di rete modello Europa modello Stati Uniti/Canada	230 V/50 Hz 115 V/60 Hz
Maße (Breite × Höhe × Tiefe)	Dimensions (width × height × depth)	Dimensions (largeur × hauteur × profondeur)	Dimensioni (larghezza × altezza × profondità)	440 × 82 × 245 mm

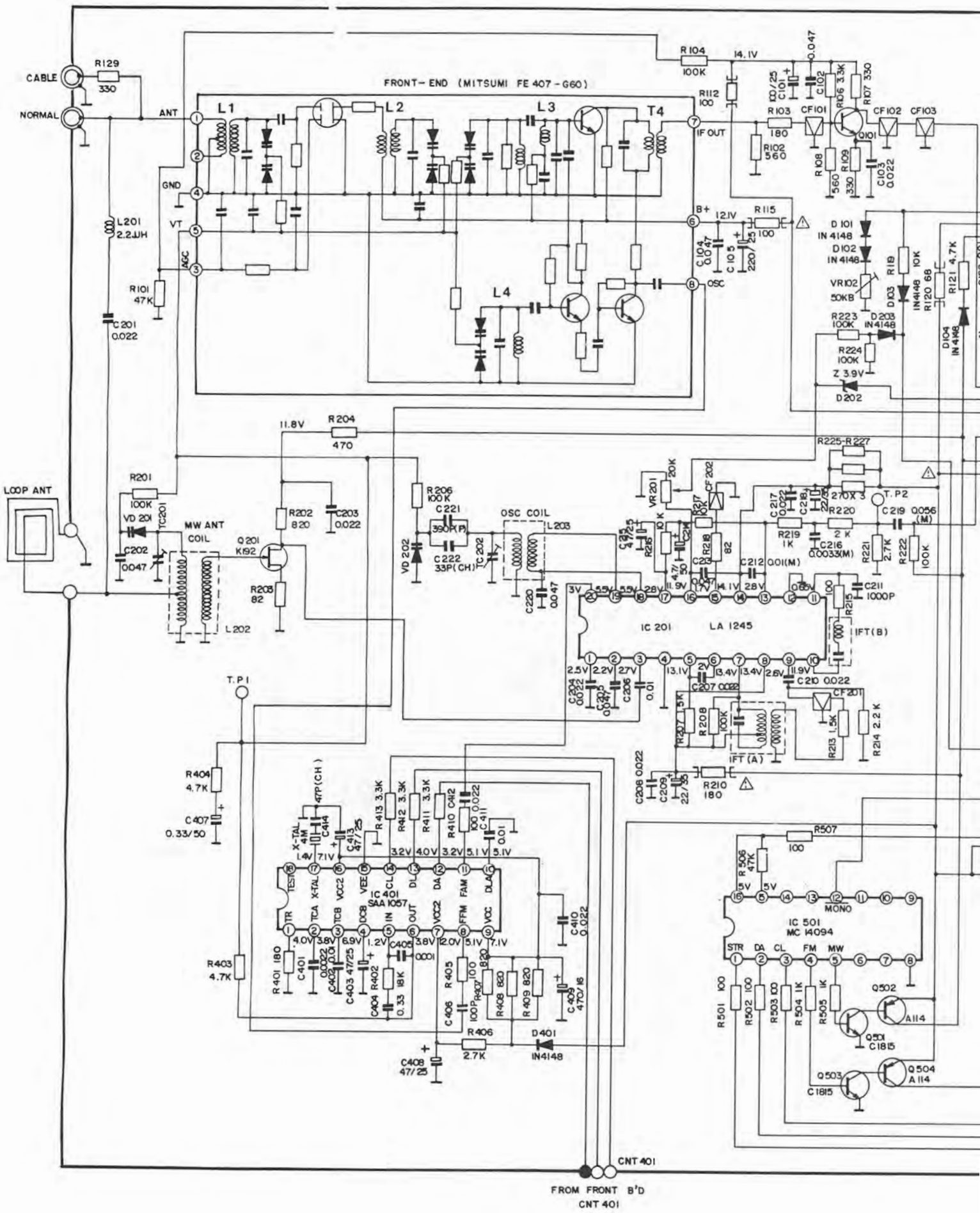
Abgleichanleitung CT 700 RS

Signalquelle	Einstellung Gerät	Einstellung Signalquelle	Meßgerät-Anschluß	Abgleichposition	Abgleich, Bemerkung	
1) FM-Oszillator						
	108 MHz		DC-Voltmeter an VT-TP 1	L 4	8,0 V DC \pm 0,2 V	
	87,5 MHz			Kontrolle	ca. 1,6 V DC	
2) FM-ZF, Vorkreis						
FM-Meßsender an 75 Ohm Antenneneingang	Senderfreie Frequenz ca. 98 MHz	0–1 mV, Hub \pm 40 kHz, Mod. 1 kHz ca. 98 MHz auf Deckung	Klirrfaktor- meßbrücke, Oszilloskop an NF-Ausgang	T1	NF-Maximum	
				L 102		
	90 MHz	ca. 90 MHz auf Deckung		L 103	NF und Klirrfaktor Minimum	
				Luftspulen L 1, L 2, L 3	Maximum	
3) FM-ZF (Feinabgleich)						
Antenne an 75 Ohm Antenneneingang	Starken FM- Sender auf seiner Sollfrequenz empfangen		DC-Voltmeter an TP 3 – TP 4	L 103	DC Max. und DC Min. ermitteln	
				L 103	Spannungsmittel einstellen	
				L 102	0 V DC \pm 10 mV	
				Abgleich wiederholen		
4) Pilotfrequenz 76 kHz, Kanaltrennung						
FM-Meßsender an 75 Ohm Antenneneingang	Senderfreie Frequenz ca. 98 MHz Monotaste: Aus	ca. 98 MHz auf Deckung Hub \pm 40 kHz, Mod. 1 kHz 1–2 mV, ohne Pilotton	Frequenzzähler an TP 5	VR 302	76 kHz \pm 50 Hz	
		Mit 19 kHz Pilot	NF-Voltmeter, Oszilloskop an NF-Ausgang	VR 301	Maximale Kanaltrennung	
5) Unterdrückung Pilotton (19 kHz)						
FM-Meßsender an 75 Ohm Antenneneingang	Senderfreie Frequenz ca. 98 MHz	ca. 98 MHz auf Deckung 1–2 mV 19 kHz Pilot ein	NF-Voltmeter, Oszilloskop an NF-Ausgang	LPF (L)	Minimum	
				LPF (R)		
6) FM-Suchlaufschwelle, FM-Signalanzeige						
FM-Meßsender an 75 Ohm Antenneneingang	Senderfreie Frequenz ca. 98 MHz	ca. 98 MHz auf Deckung Hub. \pm 40 kHz, Mod. 1 kHz, 10 μ V	Kontrolle am Display	VR 101	„TUNED“-Anzeige muß aufleuchten	
		1 mV		VR 102	Alle Signalbalken müssen aufleuchten	
7) AM-Oszillator						
	MW 522 kHz		DC-Voltmeter an VT-TP 1	L 203	1,1 V DC \pm 0,1 V	
	MW 1611 kHz			TC 202	8,4 V DC \pm 0,4 V	
				Abgleich wiederholen		
8) AM-ZF, Vorkreis						
AM-Meßsender an AM-Loop Antenneneingang	999 kHz	5 μ V–1 mV, 1 kHz Mod. 30 % 999 kHz	NF-Voltmeter, Oszilloskop an NF-Ausgang	L 204, L 205	Maximum	
				L 202		
		603 kHz		603 kHz		TC 201
		1404 kHz		1404 kHz		
9) AM-Suchlaufschwelle, AM-Signalanzeige						
AM-Meßsender an AM-Loop Antenneneingang	999 kHz	50 μ V, 1 kHz Mod. 30 % 999 kHz	Kontrolle am Display	VR 201	Alle Signalbalken müssen aufleuchten	

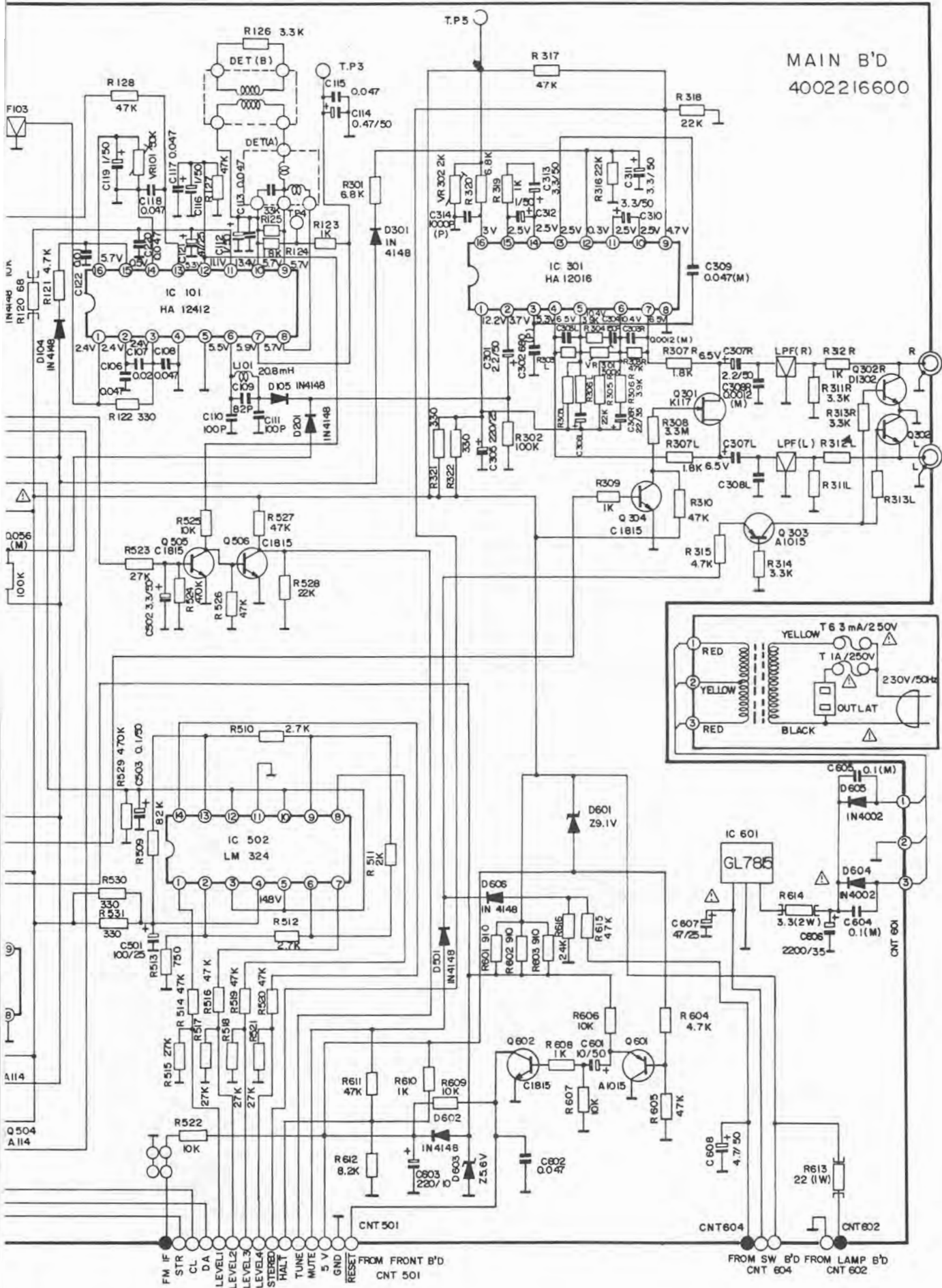
Tuning Instructions for CT 700 RS

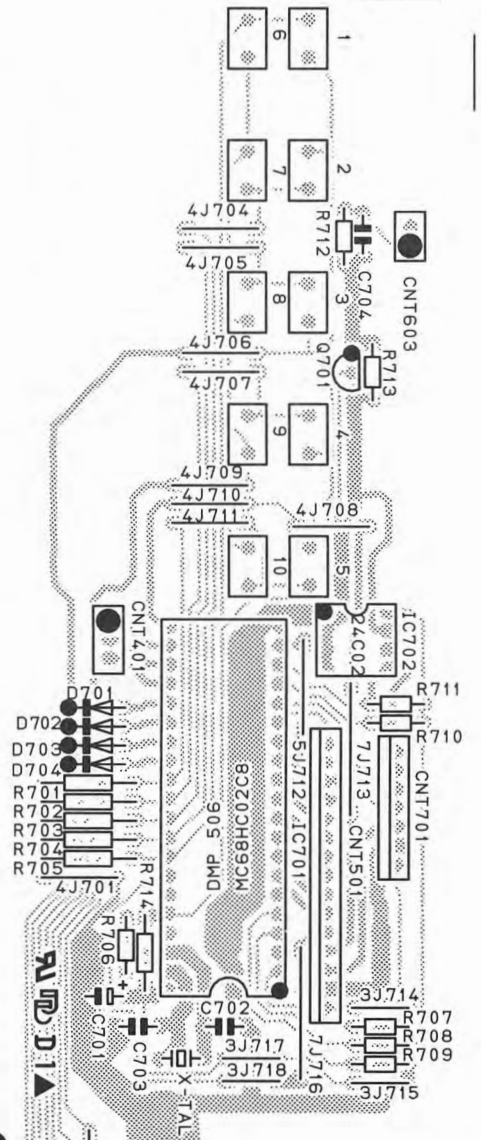
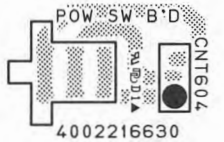
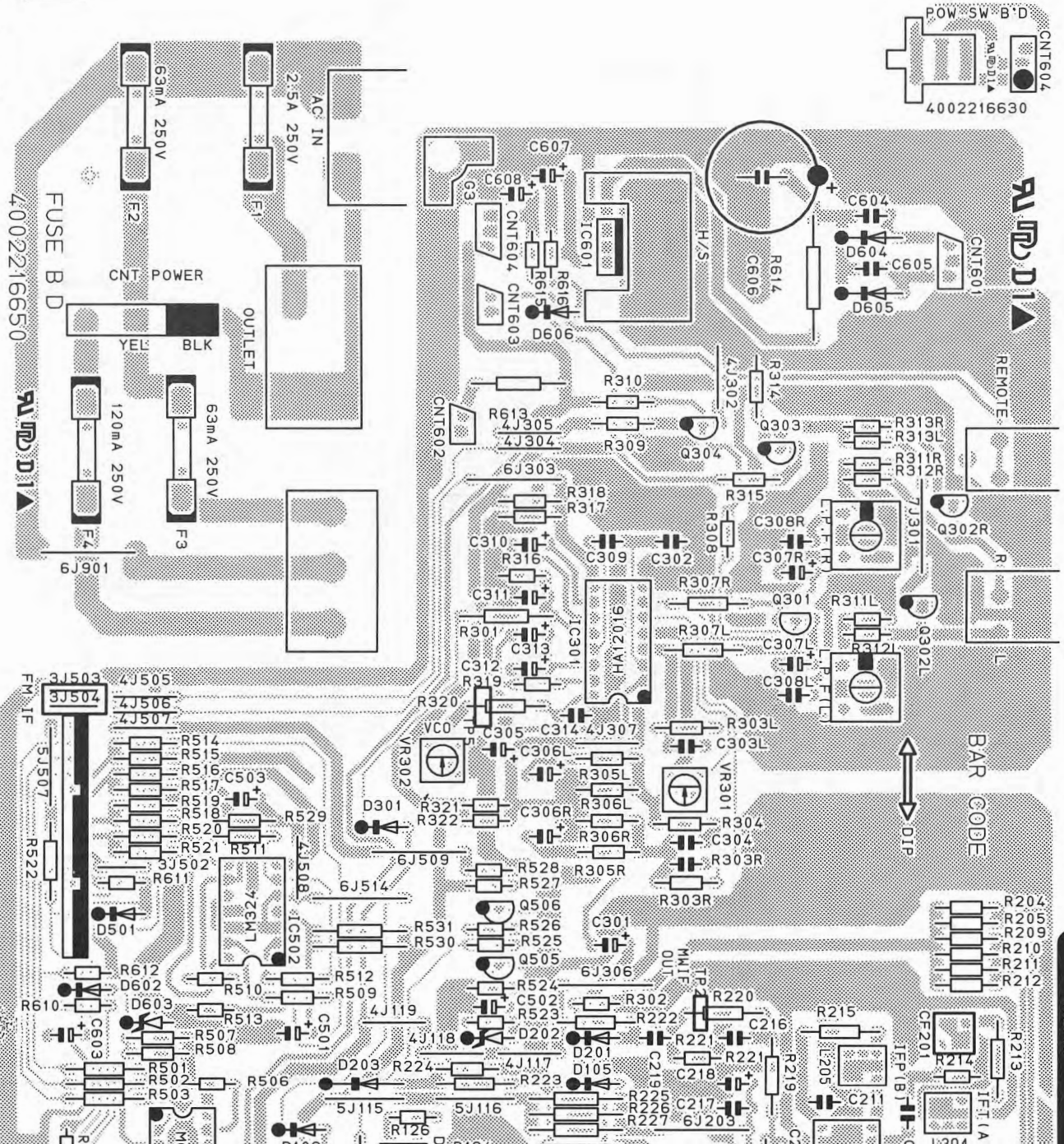
Signal source	Equipment setting	Signal source setting	Connection of measuring instrument	Item to be tuned	Tuning, Remarks
1) FM oscillator					
	108 MHz		DC voltmeter to VT-TP 1	L 4	8.0 V DC \pm 0.2 V
	87,5 MHz			Check	approx. 1.6 V DC
2) FM IF_f input circuit					
FM signal generator to 75 ohm antenna input	Frequency without transmitters approx. 98 MHz	0–1 mV, Shift \pm 40 kHz, Mod. 1 kHz Tune to approx. 98 MHz	Harmonic detector oscilloscope to AF output 	T1	AF maximum
				L 102	
	90 MHz	Tune to approx. 90 MHz		L 103	AF and harmonic distortion minimum
			aircoils L 1, L 2, L 3	AF maximum	
3) FM IF (fine tuning)					
Antenna to 75 ohm antenna input	Receive strong FM transmitter at its nominal frequency		DC voltmeter to TP 3 – TP 4	L 103	Determine DC max. and DC min.
				L 103	Adjust power mean
				L 102	0 V DC \pm 10 mV
				Repeat tuning	
4) Pilotfrequency 76 kHz, Channelseparation					
FM Signal generator to 75 ohm antenna input	Frequency without transmitters approx. 98 MHz Mono key: OFF	Tune to approx. 98 MHz Shift \pm 40 kHz, Mod. 1 kHz 1–2 mV, without pilot	Frequency to TP 5	VR 302	76 kHz \pm 50 Hz
		with 19 kHz pilot	AF voltmeter, oscilloscope to AF output	VR 301	Maximum channel separation
5) Suppression of residual pilot frequencies (19 kHz)					
FM signal generator to 75 ohm antenna input	Frequency without transmitters approx. 98 MHz	Tune to approx. 98 MHz, 1–2 mV 19 kHz pilot ON	AF voltmeter, oscilloscope to AF output	LPF (L)	Minimum
				LPF (R)	
6) Search threshold, FM signal indicator					
FM signal generator to 75 ohm antenna input	Frequency without transmitters approx. 98 MHz	Tune to approx. 98 MHz, Shift \pm 40 kHz, Mod. 1 kHz, 10 μ V	Check the display	VR 101	Signal "TUNED" must light up
		1 mV		VR 102	all Signal LED must light up
7) AM oscillator					
	AM 522 kHz		DC voltmeter to VT-TP 1	L 203	1.1 V DC \pm 0.1 V
	AM 1611 kHz			TC 202	8.4 V DC \pm 0.4 V
				Repeat tuning	
8) AM IF_f input circuit					
AM signal generator to AM-Loop antenna input		5 μ V–1 mV, 1 kHz Mod. 30% 999 kHz	AF voltmeter, oscilloscope to AF output 	L 204, L 205	Maximum
	999 kHz	999 kHz		L 202	
	603 kHz	603 kHz		TC 201	
	1404 kHz	1404 kHz			
9) AM Search threshold AM signal indicator					
AM signal generator to AM-Loop antenna input	999 kHz	50 μ V, 1 kHz Mod. 30% 999 kHz	Check the display	VR 201	all signal LED must light up

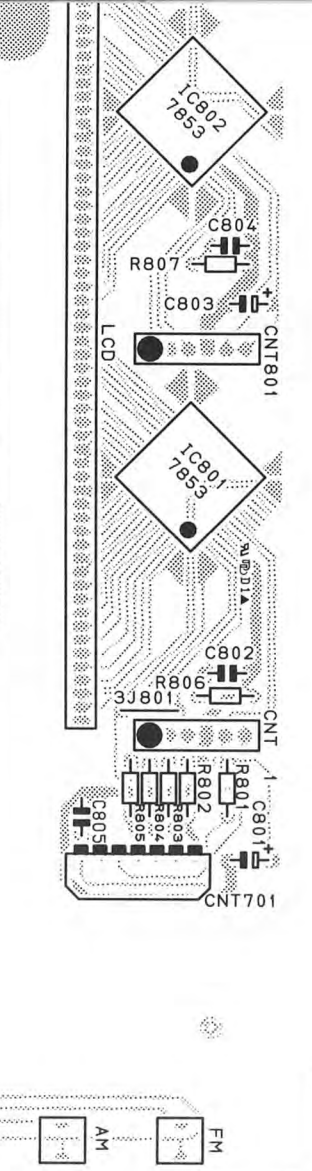
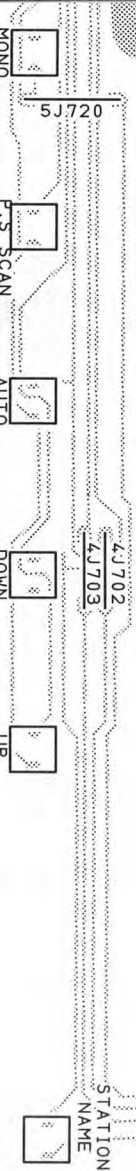
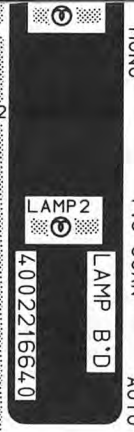
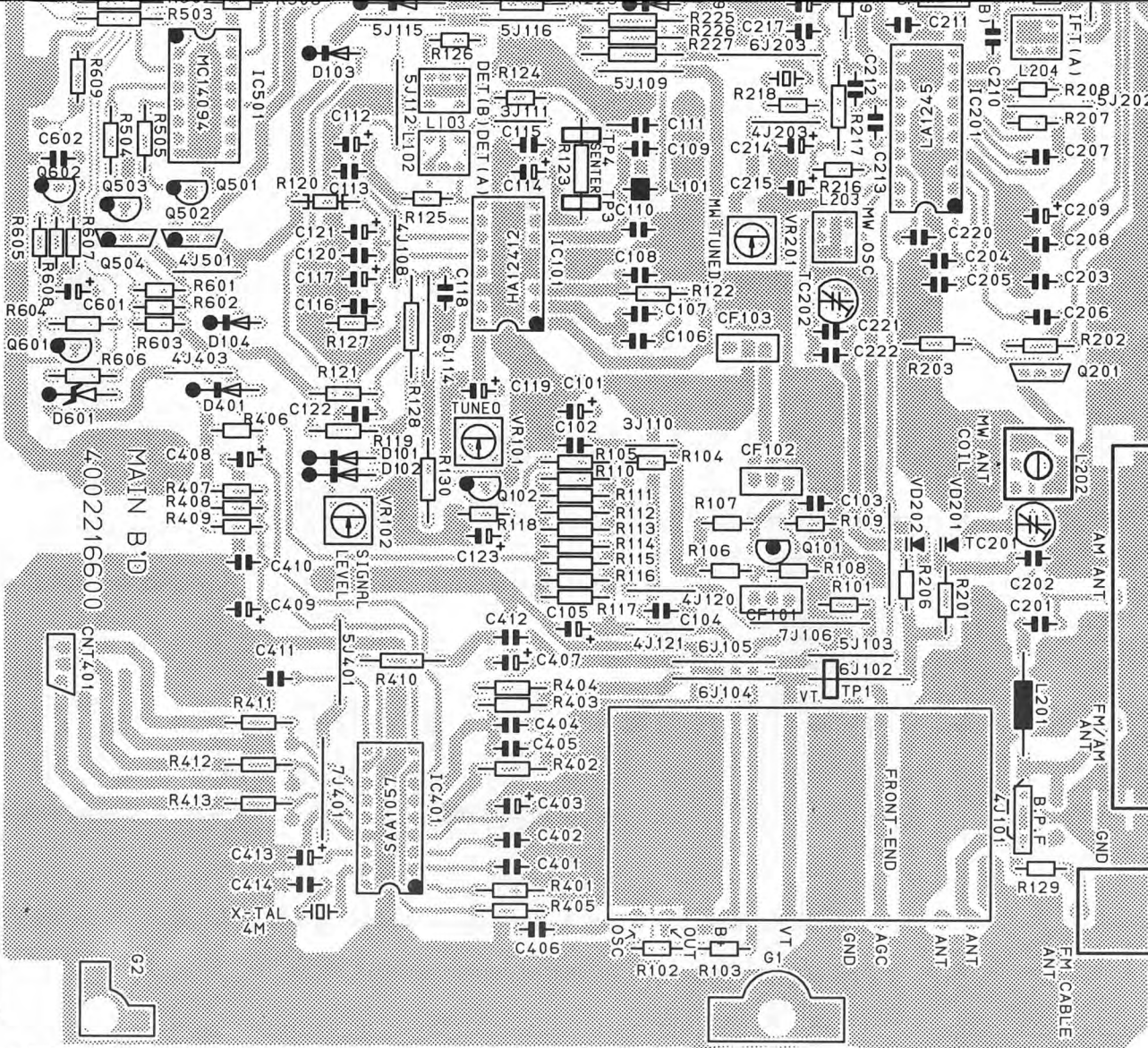


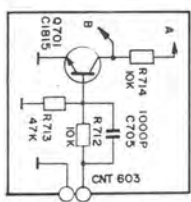
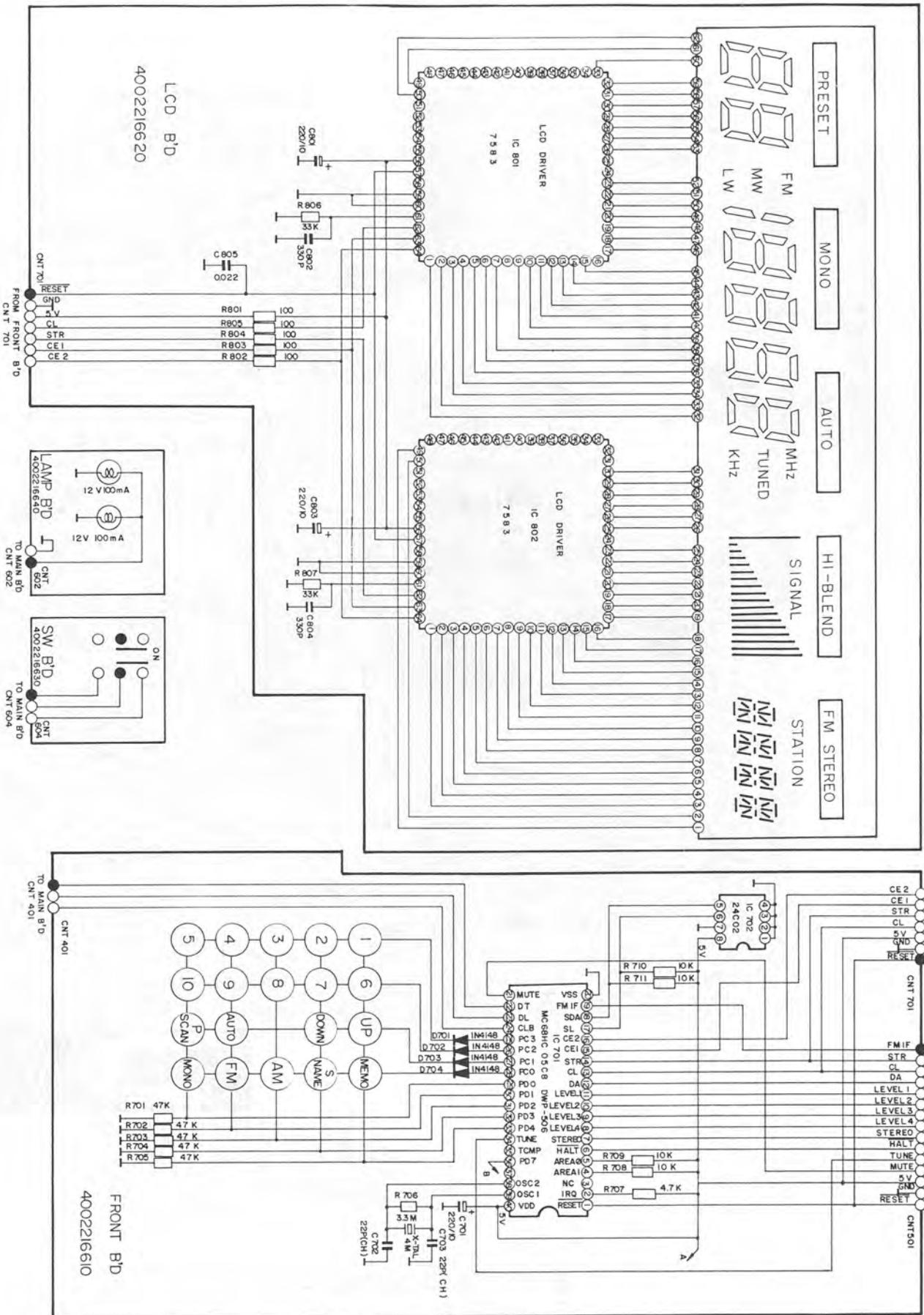


MAIN B'D
4002216600





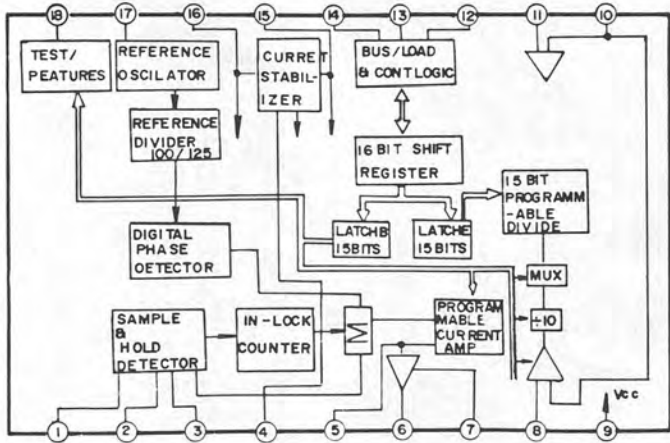
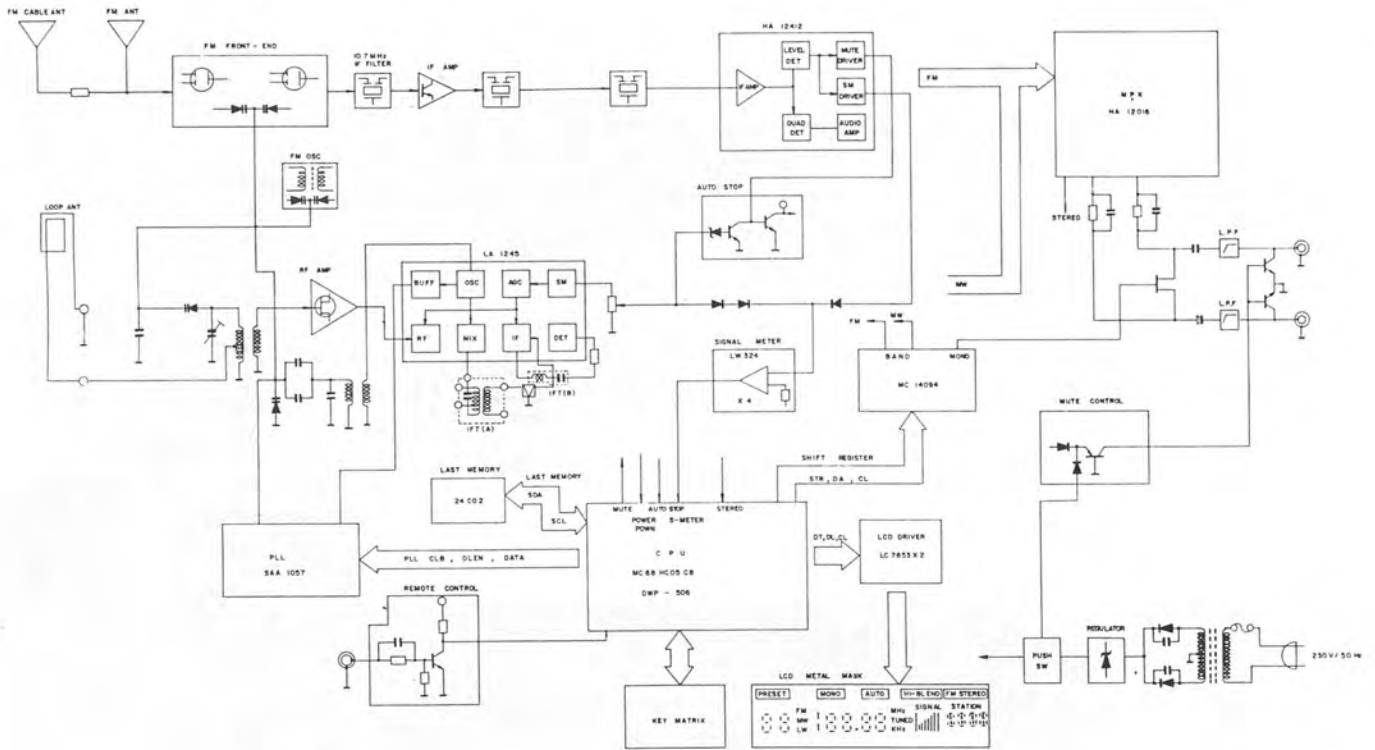




NOTES

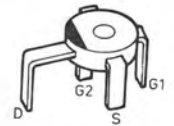
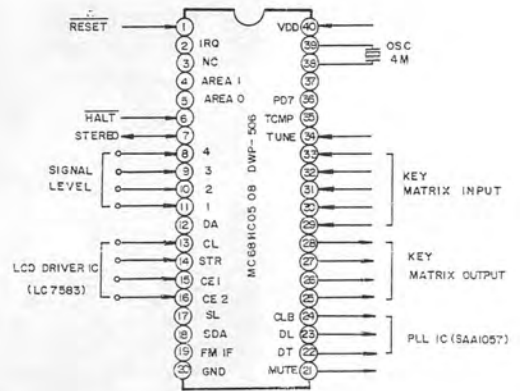
1. Resistance values are indicated in ohms, unless otherwise specified (K=1,000 Ohms, M=1,000,000 Ohms).
 2. Capacitance values are shown in microfarads, unless otherwise noted (P=picofarads, microfarads).
 3. All voltages are referenced to ground unless otherwise indicated.
- CAUTION
- 1) Safety precautions to be followed during installation:
 - a) Since these parts marked with a triangle are critical parts for safety use the one designated.
 - 2) Before returning the receiver to the customer, appropriate leakage current or resistor measurements to determine that exposed parts insulated from the supply circuit.

BLOCK DIAGRAM

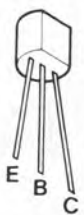


SAA 1057

PIN ASSIGNMENT (IC 701)



3 SK74L



LM 9018 F



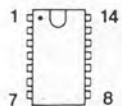
KTA 1015 Y
KTC 1815 Y
KTC 1923 Y



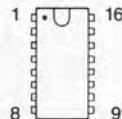
2 SK 117 Y



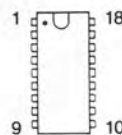
KTK 161 Y



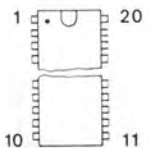
LM 324



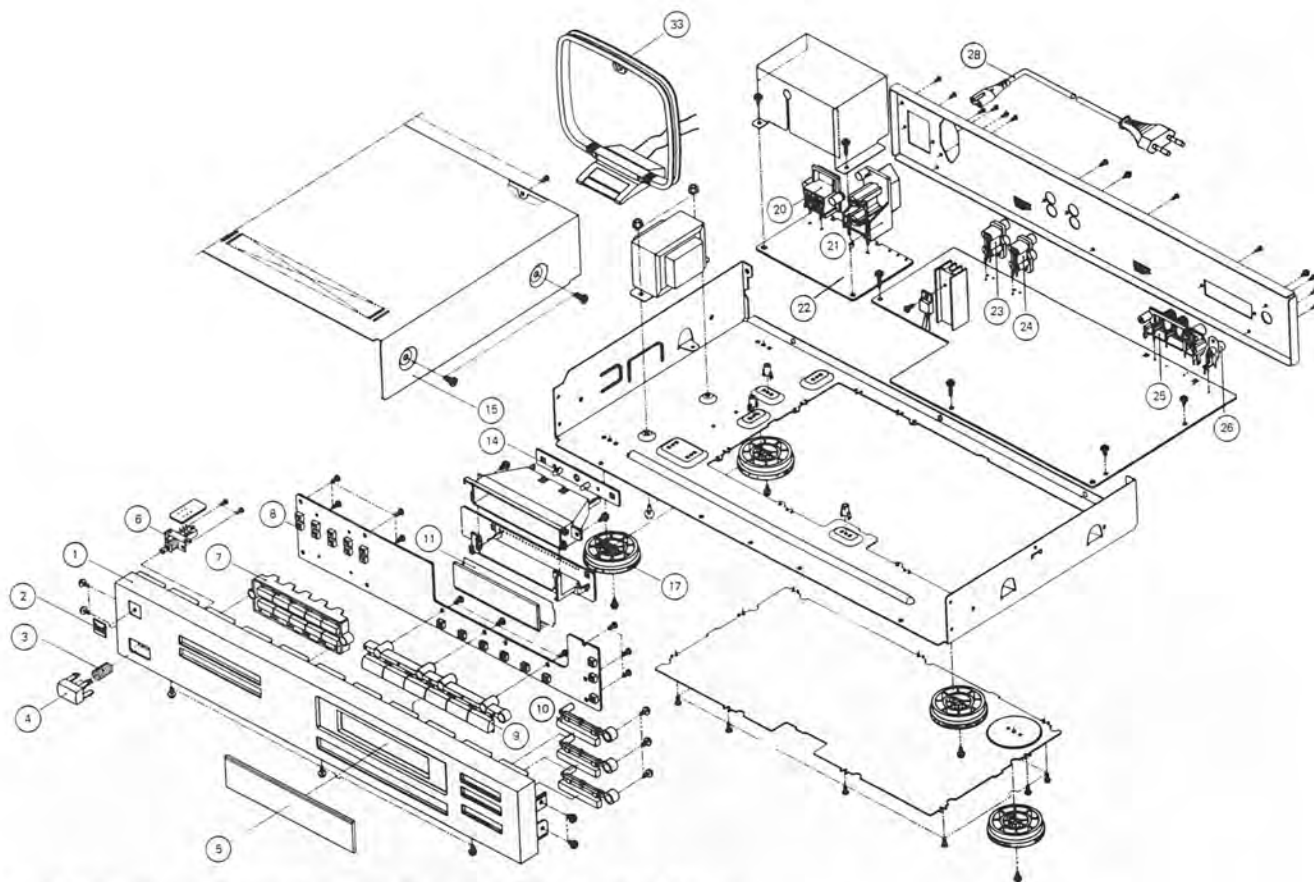
HA 12016
HA 12412
MC 14094



SAA 1057



LA 1245



Ersatzteile · Replacement parts · Pièces détachées · CT 700

Pos.	Art.-Nr.	Bezeichnung
1	289 293	Frontblende
2	283 750	DUAL-Zeichen
3	289 294	Druckfeder
4	289 244	Taste POWER
5	289 296	Fenster
6	289 318	Schalter
6	289 707	Schalterplatte
7	289 297	Tasten 10-fach
8	286 901	Schalter
9	289 298	Tasten 6-fach
10	289 299	Taste
11	289 300	Dämpfungstolie
14	289 708	Lampenplatte
14	289 462	Lampe
15	289 301	Gehäuseblech
17	289 241	Fuß
20	289 266	Netzbuchse
21	289 267	Anschlußbuchse
22	289 709	Buchsenplatte
23	286 897	REMOTE-Buchse
24	289 302	Cinchbuchse 2-fach
25	289 303	Antennenbuchse AM/FM
26	289 304	Antennenbuchse AM/FM
28	279 596	Netzkabel Europa
30	226 817	Cinchkabel
31	286 953	RC-Kabel
32	289 305	Hilfsantenne
33	289 312	AM-Antenne
		Grundplatte
L 101	282 194	Spule 20,8 UH
L 102	282 183	Spule
L 103	282 184	Spule
L 201	282 324	Spule 2,2 UH
L 202	289 307	Spule AM
L 203	287 482	Spule MW OSC
L 204	282 188	Spule
L 205	282 189	Spule
D 101	223 906	Diode 1 N 4148
bis		
D 105	223 906	Diode 1 N 4148
D 201	223 906	Diode 1 N 4148
D 202	282 828	Diode ZPD 3,9
D 203	223 906	Diode 1 N 4148
bis		
D 602	223 906	Diode 1 N 4148

Pos.	Art.-Nr.	Bezeichnung
D 603	283 552	Diode DZ 5,6
D 604	226 501	Diode 1 N 4002
D 605	226 501	Diode 1 N 4002
D 606	223 906	Diode 1 N 4148
VD 201	282 223	Diode KV 1236
VD 202	282 223	Diode KV 1236
X-TAL	281 411	Quartz 4 MHz
CF 101	284 782	Keramikfilter SFE 10,7 MS3GH
bis		
CF 103	284 782	Keramikfilter SFE 10,7 MS3GH
CF 201	289 309	Filter SFP 450 H
CF 202	284 784	Keramikfilter BFU450C4N
CF 301	289 310	Filter LPF
IC 101	268 204	IC HA 12412
IC 201	282 167	IC LA 1245
IC 301	264 541	IC HA 12016
IC 401	274 730	IC SAA 1057
IC 501	276 039	IC MC 14094 BCP C-MOS
IC 502	261 352	IC LM 324
Q 101	282 172	Transistor LM 9018 F
Q 201	282 170	Transistor 2 SK 192
Q 301	282 075	Transistor 2 SK 117 Y
Q 302	284 787	Transistor KTD 1302
Q 303	282 077	Transistor KTA 1015 Y
Q 304	282 076	Transistor KTC 1815 Y
Q 501	282 076	Transistor KTC 1815 Y
Q 502	289 311	Transistor DTA 114 YS
Q 503	282 076	Transistor KTC 1815 Y
Q 504	289 311	Transistor DTA 114 YS
Q 505	282 076	Transistor KTC 1815 Y
Q 506	282 076	Transistor KTC 1815 Y
Q 601	282 077	Transistor KTA 1015 Y
Q 602	282 076	Transistor KTC 1815 Y
Q 603	282 076	Transistor KTC 1815 Y
	287 485	FM-Teil
	289 313	Netztrafo CT 700
		Tastenplatte
IC 701	289 315	IC CPU DWP 505
IC 702	284 789	IC 24 CO 2
Q 701	282 076	Transistor KTC 1815 Y
		DISPLAY-Platte
IC 801	283 717	IC LC 7583
IC 802	283 717	IC LC 7583
	284 786	Display LCD 8092 M1 J9

Änderungen vorbehalten! Subject to change! Sous réserve de modification!

