

ROTEL*hi-fi*

AM/FM STEREO TUNER

RT-940AX

TECHNICAL MANUAL

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THE ROTEL CO., LTD.

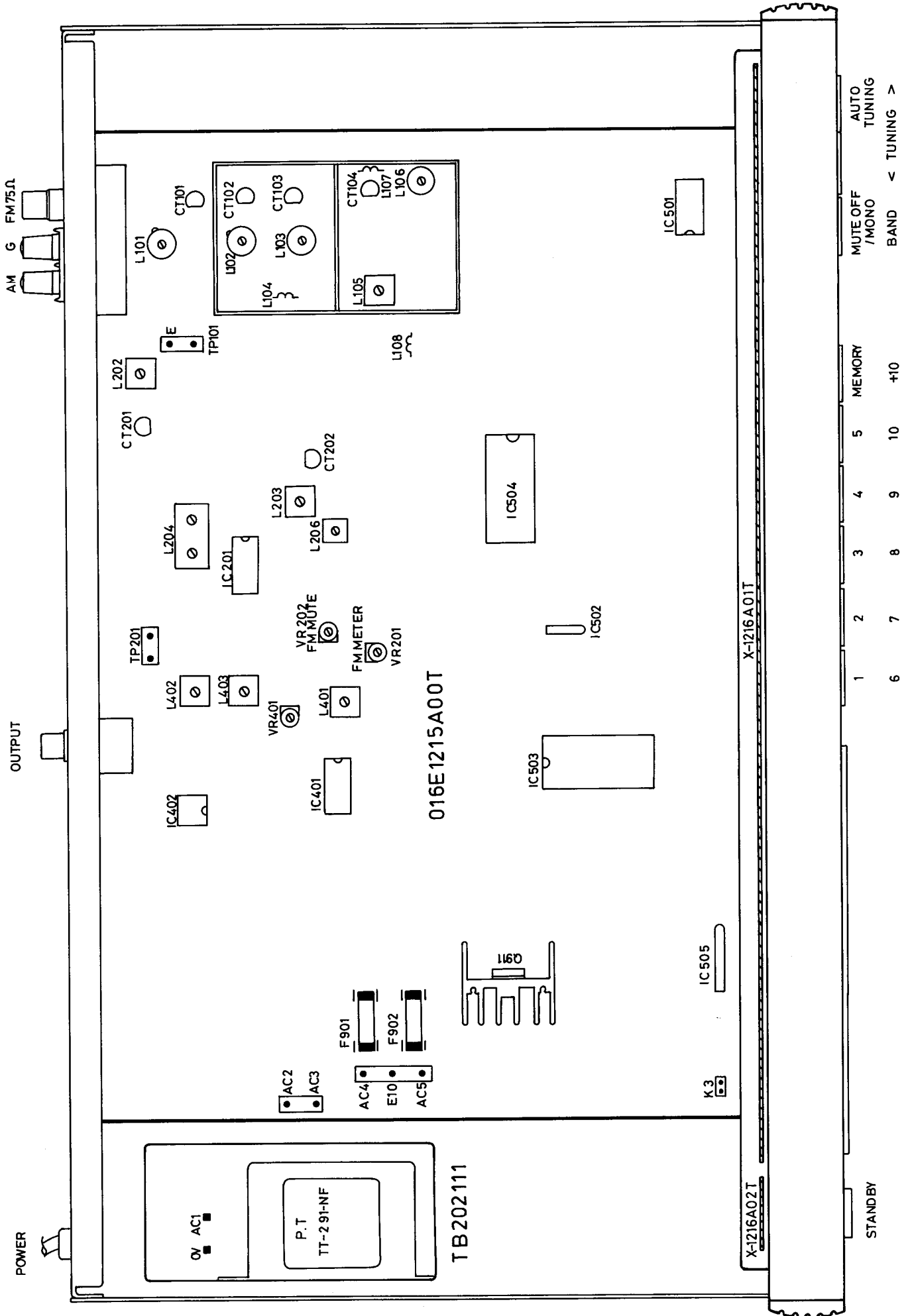
1-36-8, OHOKAYAMA, MEGURO-KU, TOKYO 152, JAPAN

ROTEL ELECTRONICS CO., LTD.

3F-2, NO.35, FU HSING NORTH ROAD, TAIPEI, TAIWAN, REPUBLIC OF CHINA

MN20002188

Chassis Layout



SPECIFICATIONS

RT 940AX AM/FM STEREO TUNER

FM SECTION (75 ohm antenna)

Usable Sensitivity	12.5 dBf / 1.2 μ V (75 ohms)
50 dB Quieting Sensitivity	
Mono	11 dBf / 2 μ V (75 ohms)
Stereo	34.5 dBf / 30 μ V (75 ohms)
Signal to Noise ratio (@ 65 dBf)	
Mono	75 dB
Stereo	70 dB
Harmonic Distortion (@ 65 dBf, 1 kHz)	
Mono	0.08%
Stereo	0.3%
Frequency response	30 Hz-15,000 Hz $\pm$ 1.5 dB
Stereo separation (100 Hz / 1 kHz / 10 kHz)	35 dB / 40 dB / 30 dB
Output level	720 mV
Sub carrier product ratio	60 dB
Alternate channel selectivity ($\pm$ 400 kHz)	63 dB
Capture ratio	1.5 dB
Spurious response ratio	95 dB
Image response ratio	65 dB
IF response ratio	90 dB
AM suppression ratio	60 dB
Antenna input impedance	75 ohm

AM SECTION (Loop antenna)

Usable Sensitivity	350 μ V / m
Selectivity	27 dB
Signal to Noise ratio	60 dB
Image response ratio	40 dB
IF response ratio	40 dB
Power requirement	115 volts AC 50/60 Hz
	230 volts AC 50/60 Hz
Power consumption	10 watts
Weight	3.6 kg / 7.9 lbs
Dimensions	440 (w) x 72 (h) x 284 (d) mm
	17-3/8" (w) x 2-7/8" (h) x 11-1/4" (d)

All specifications are correct at the time of printing. Rotel reserves the right to make improvements without notice.

FM IF and RF Alignment

Instruments: FM Signal Generator (400Hz,100% Modulated), THD Analyzer, Oscilloscope, AC VTVM, DC Voltmeter, Tuning Meter.

Terminated : DC Voltmeter---Between TP101 and Earth on E-1215A00T P.C.B.
Tuning Meter---Between TP201 and Earth on E-1215A00T P.C.B.

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	No use		87.5 MHz	L106	1.5V reading on DC Voltmeter
2			108 MHz	CT104	9V reading on DC Voltmeter
3	Repeat steps 1 and 2 unit no further improvement is noticed.				
4	Antenna terminal	90 MHz	90 MHz	L101,102 L103	Maximum reading on AC VTVM.
5		105 MHz	105 MHz	CT101- CT103	Maximum reading on AC VTVM.
6	Repeat steps 4 and 5 unit no further improvement is noticed.				
7	Antenna terminal 1mV input	90 MHz	90 MHz	L204(A)	Adjust center on Tuning Meter
8				L204(B)	Minimum reading on THD Analyzer
9	Repeat steps 7 and 8 unit no further improvement is noticed (Muting OFF)				
10	Antenna terminal 5uV input	90 MHz	90 MHz	VR202	Muting Level (Muting ON)
11	Antenna terminal 1mV input	90 MHz	90 MHz	VR201	Signal Indicator Level (Muting OFF)

FM MPX Alignment

Instruments: FM Stereo Generator, AC VTVM, Oscilloscope,
Frequency Counter, and THD Analyzer.

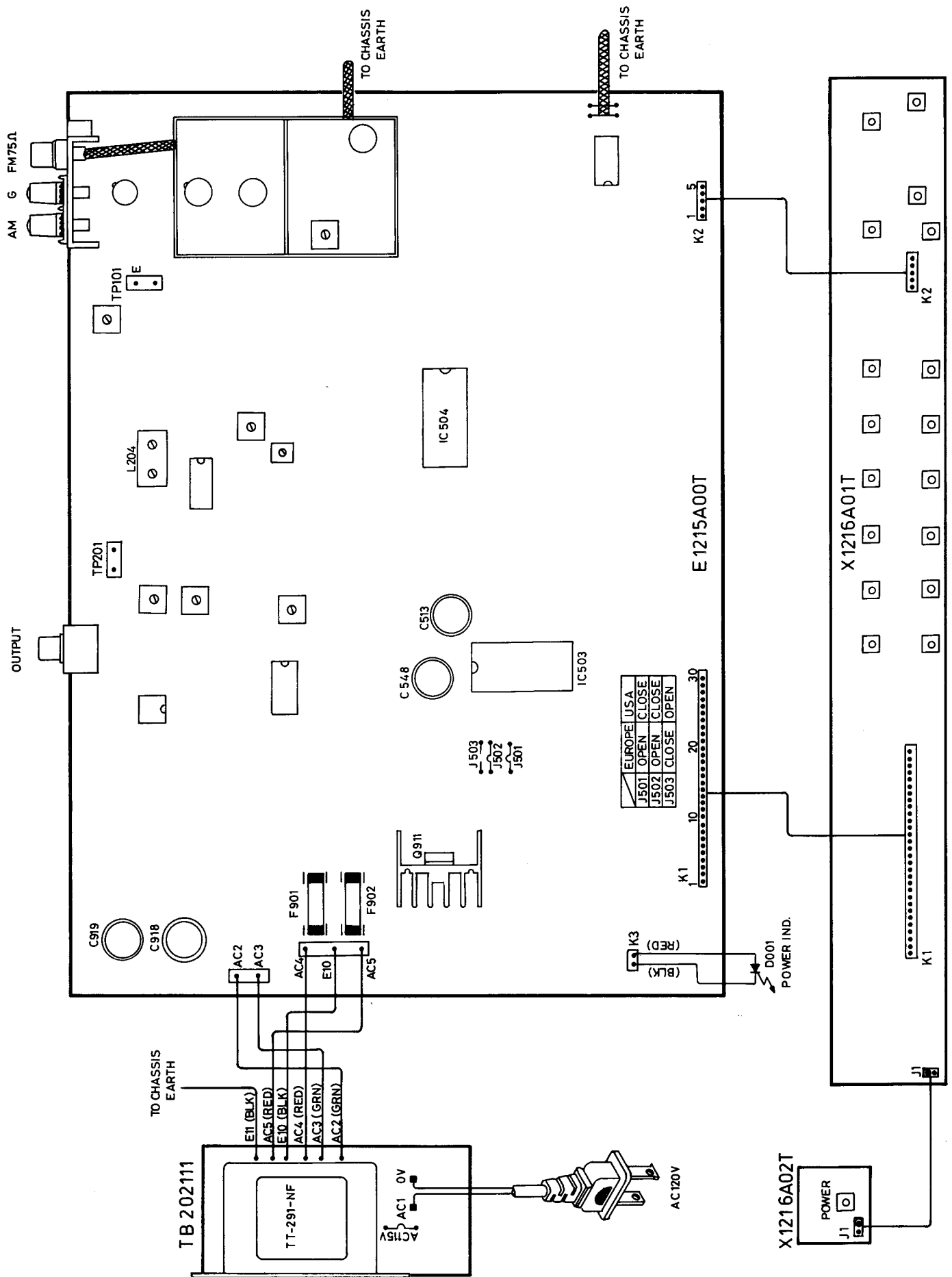
Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	Antenna terminal 1mV input	98 MHz Pilot--10% 1 kHz--90% Mod.	98 MHz	L105	Minimum Dist.
2	Antenna terminal 1mV input	98 MHz Pilot--10% 1 kHz--90% Mod.	98 MHz	VR401	Best separation
3	Repeat steps 1 and 2 unit no further improvement is noticed. Check the stereo indicator can be operated normally when pilot signal is reduce from 10% to 5%.				

MW IF and RF Alignment

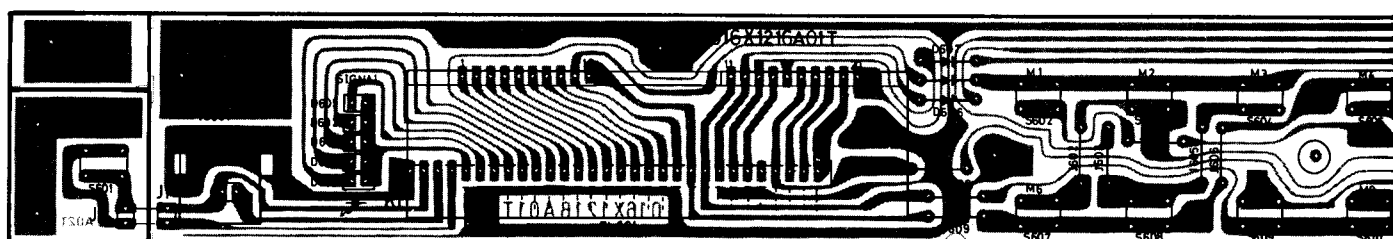
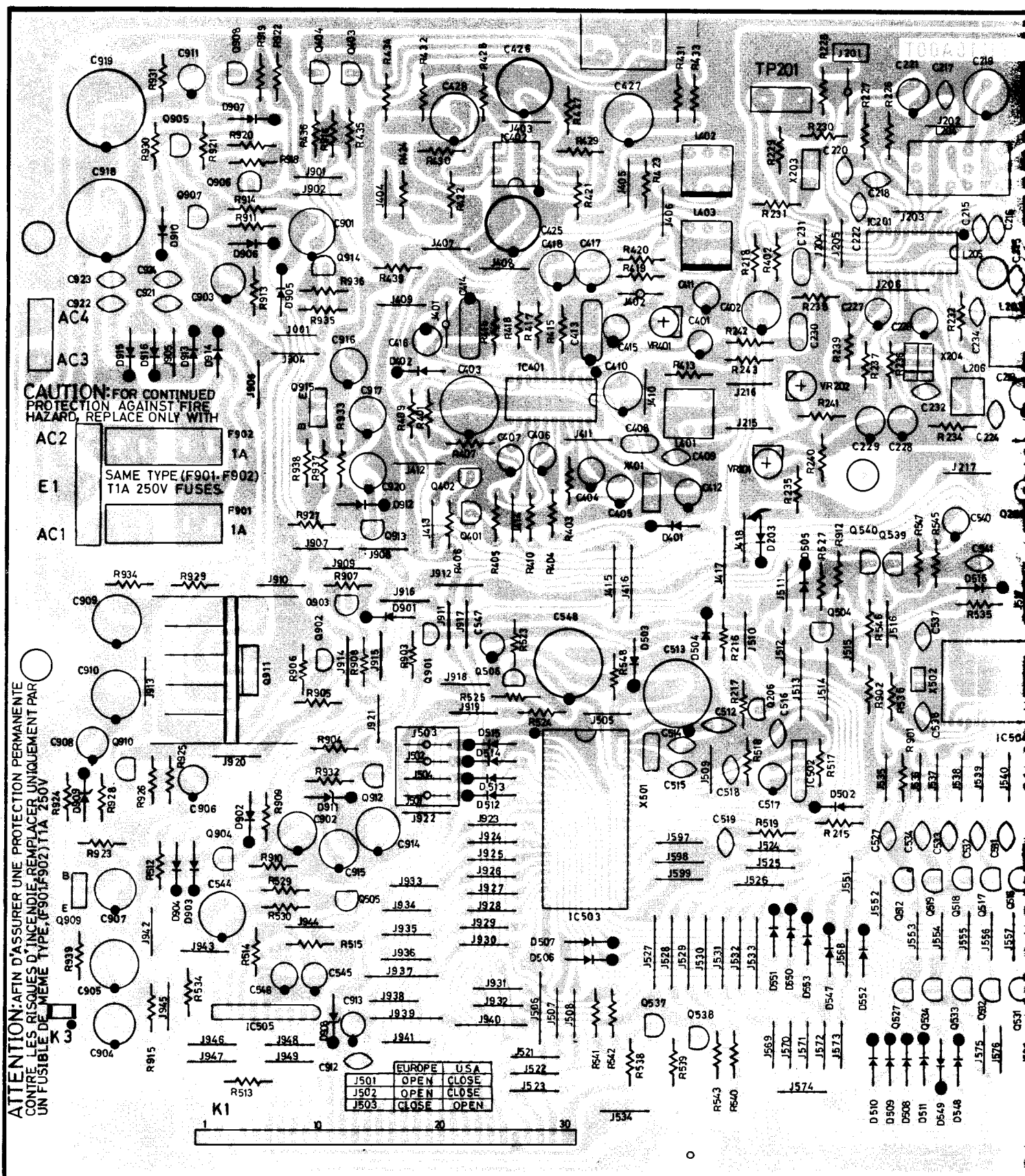
Instruments: AM Signal Generator (400Hz,30% Modulated), AC VTVM,
Oscilloscope, DC Voltmeter.
Terminated : DC Voltmeter---Between TP101 and Earth on E-1215A00T P.C.B.

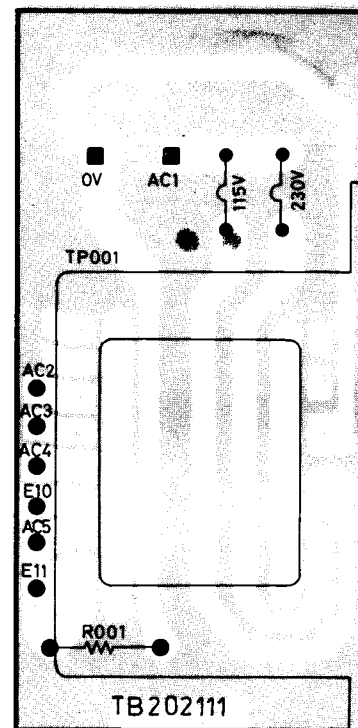
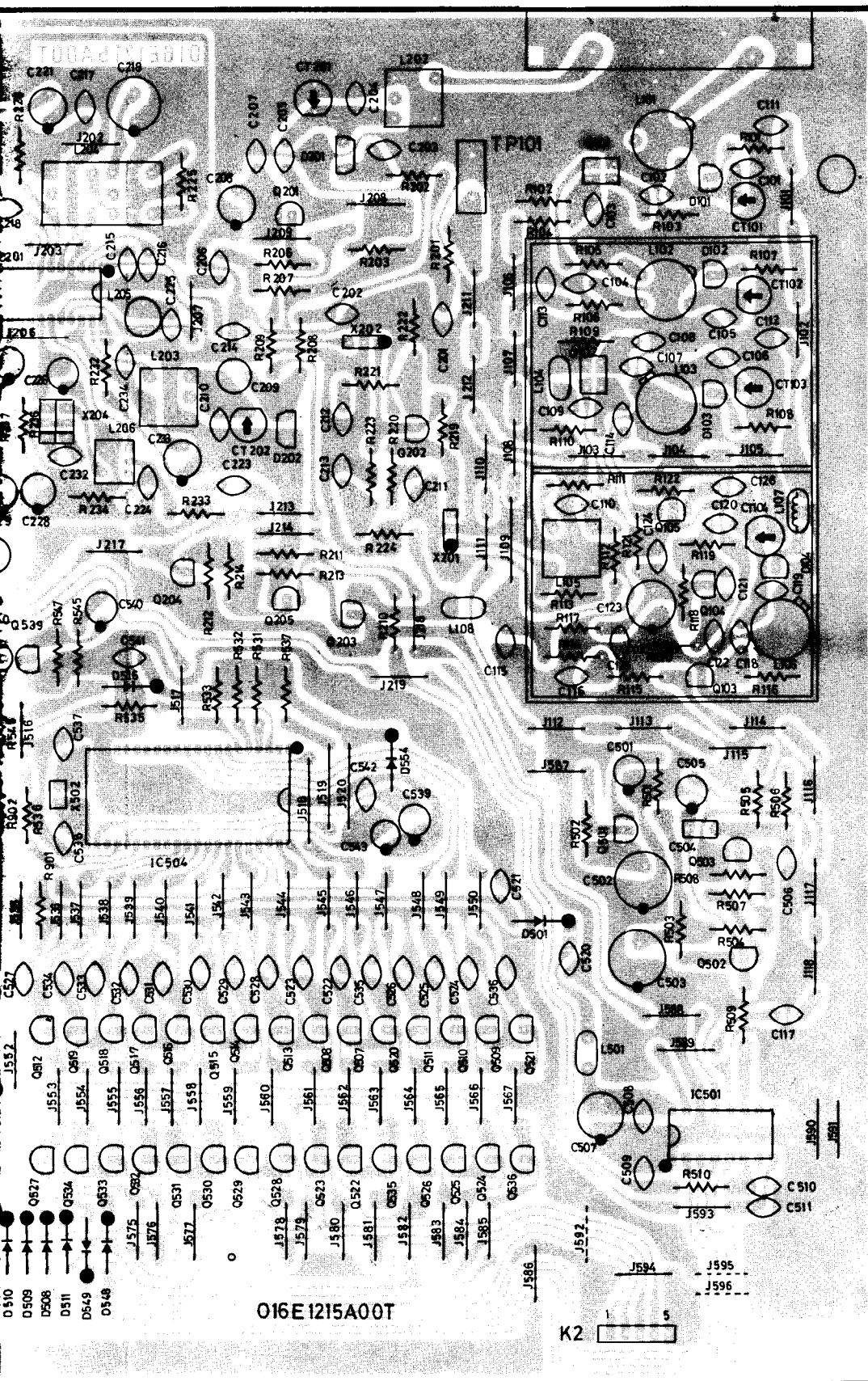
Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	No use		530 kHz (531 kHz) Europe	L203	About 1.2V+/-0.1V on DC Voltmeter
2			1600 kHz (1602kHz) Europe	CT202	About 9V+/-0.2V on DC Voltmeter
3	Repeat steps 1 and 2 unit no further improvement is noticed.				
4	Test loop radiate signal into loop antenna	450 kHz	530 kHz	L206	Maximum reading on AC VTVM.
5		600 kHz	600 kHz	L202	
6		1400 kHz	1400 kHz	CT201	
7	Repeat steps 4 to 6 unit no further improvement is noticed.				

Wiring Diagram

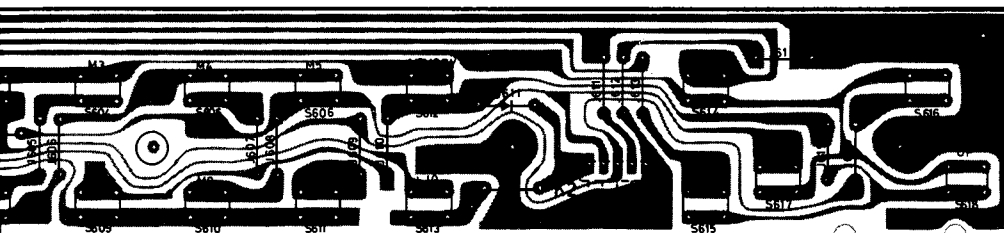


Printed Circuit Boards



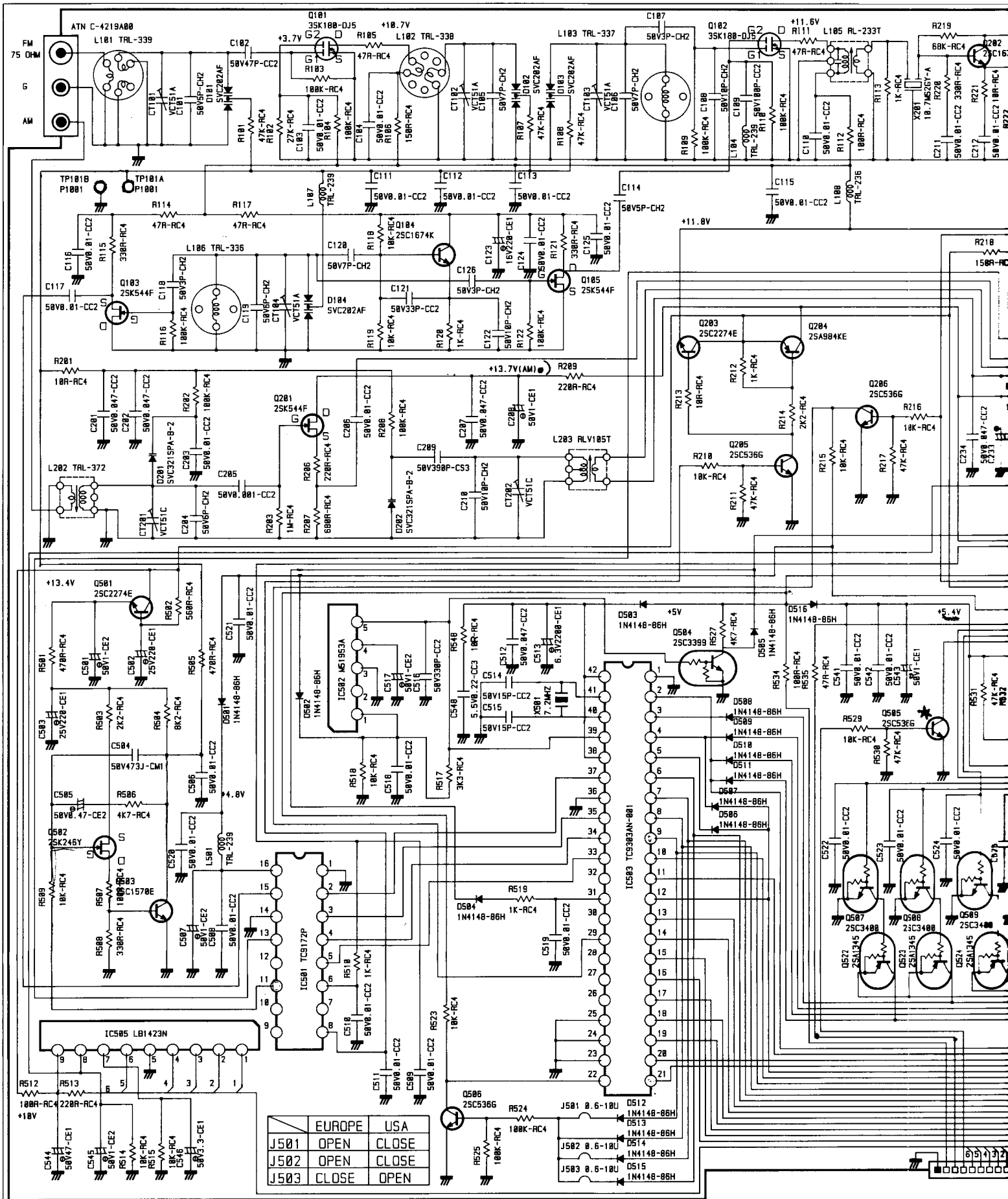


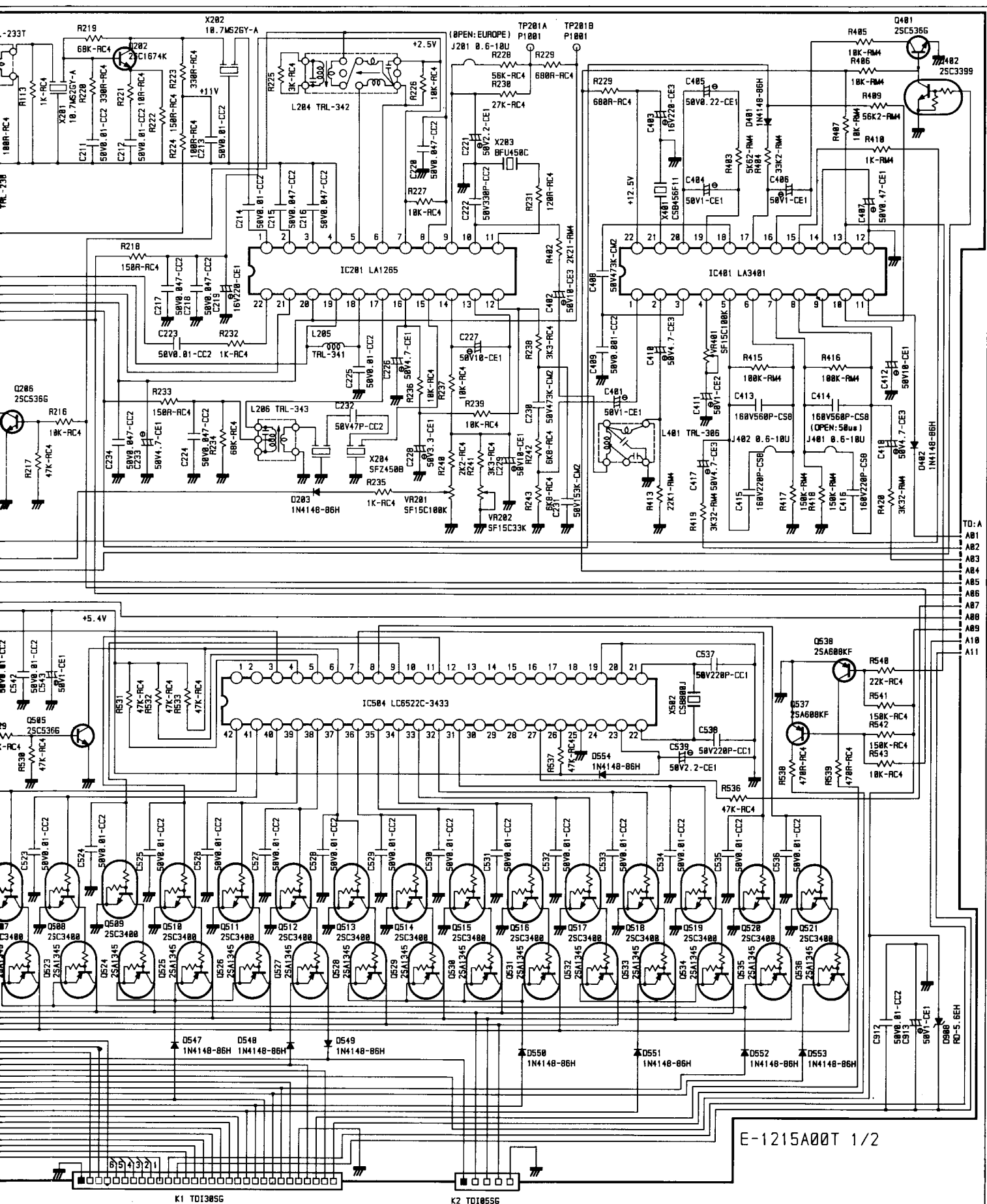
X204B
P1 P2
TX409111
P3 P4



Schematic Diagram

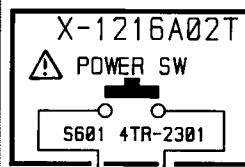
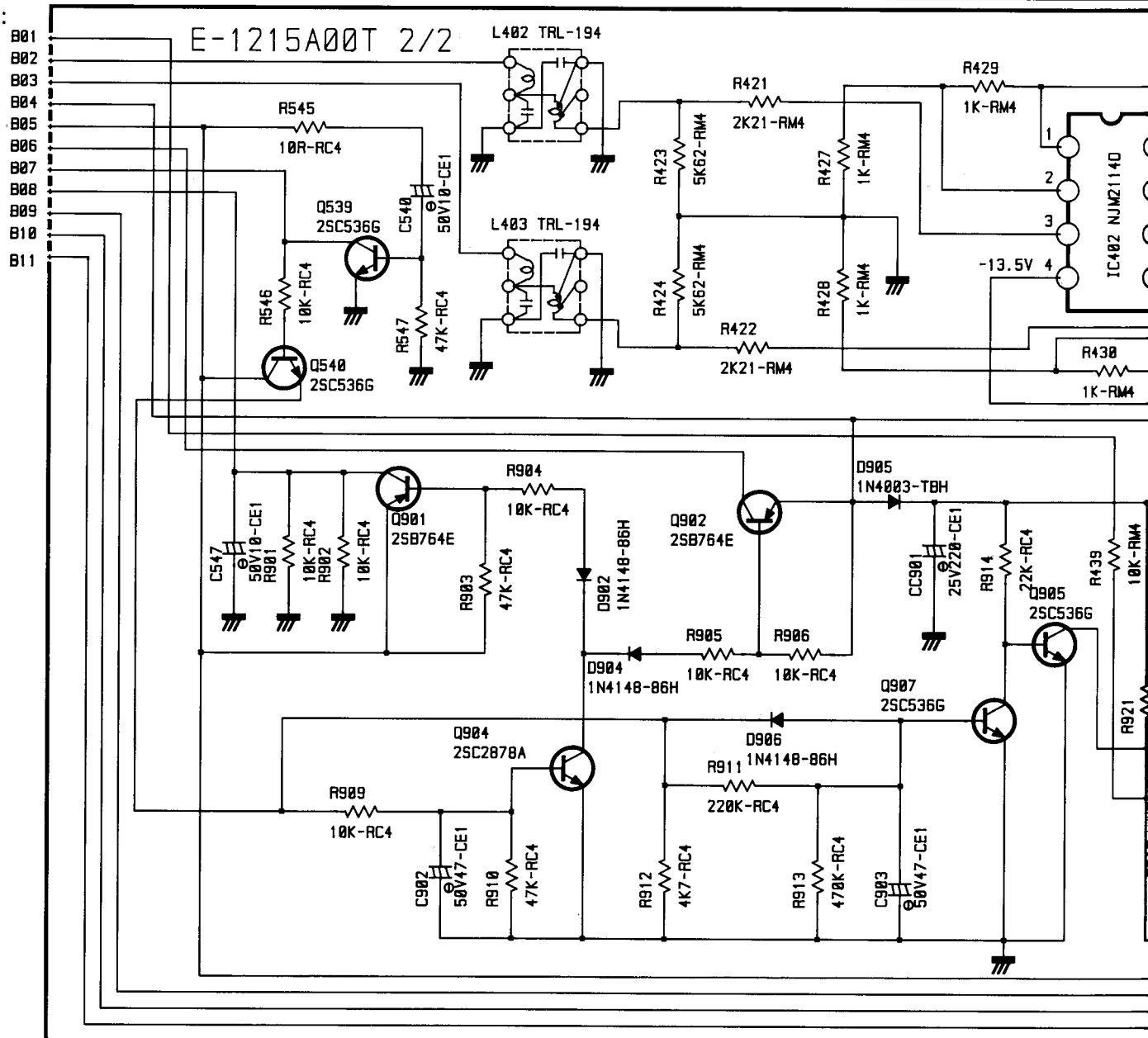
SCHEMATIC DIAGRAM MODEL NO. RT-940AX (1/2)





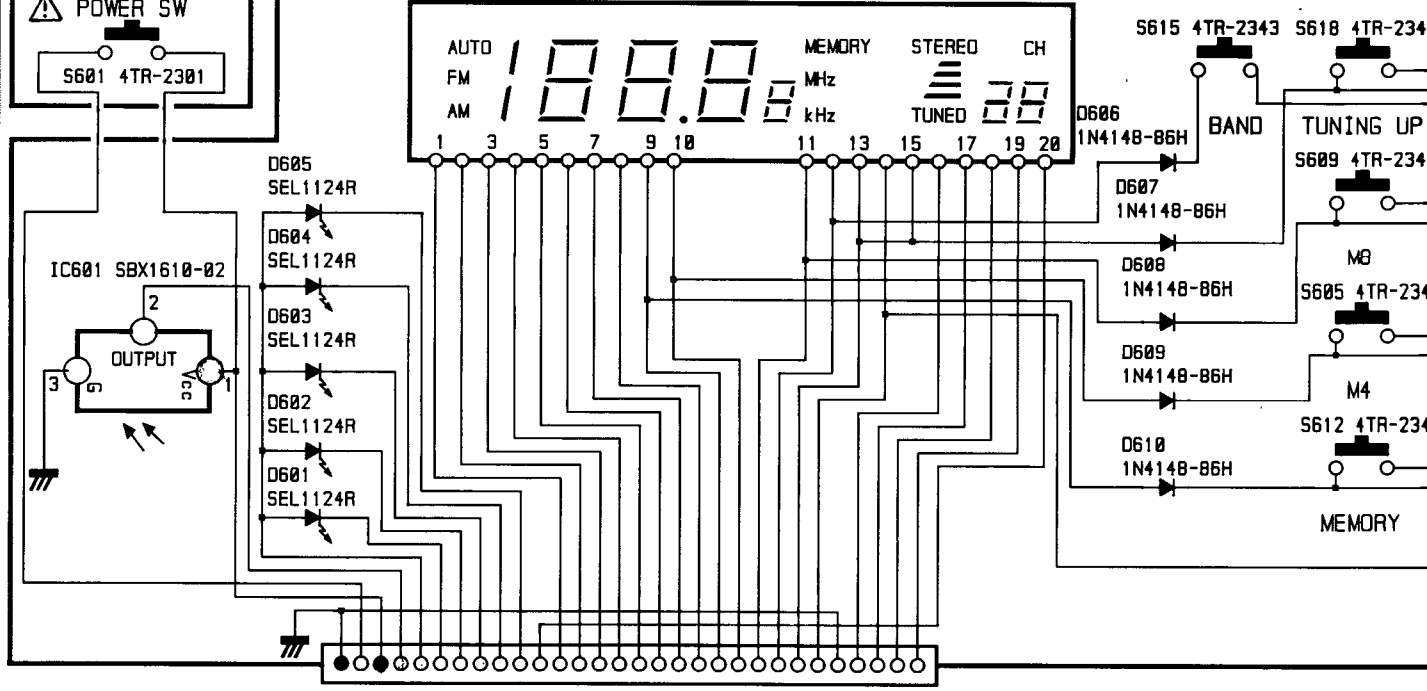
SCHEMATIC DIAGRAM MODEL NO. RT-940AX (2/2)

A:

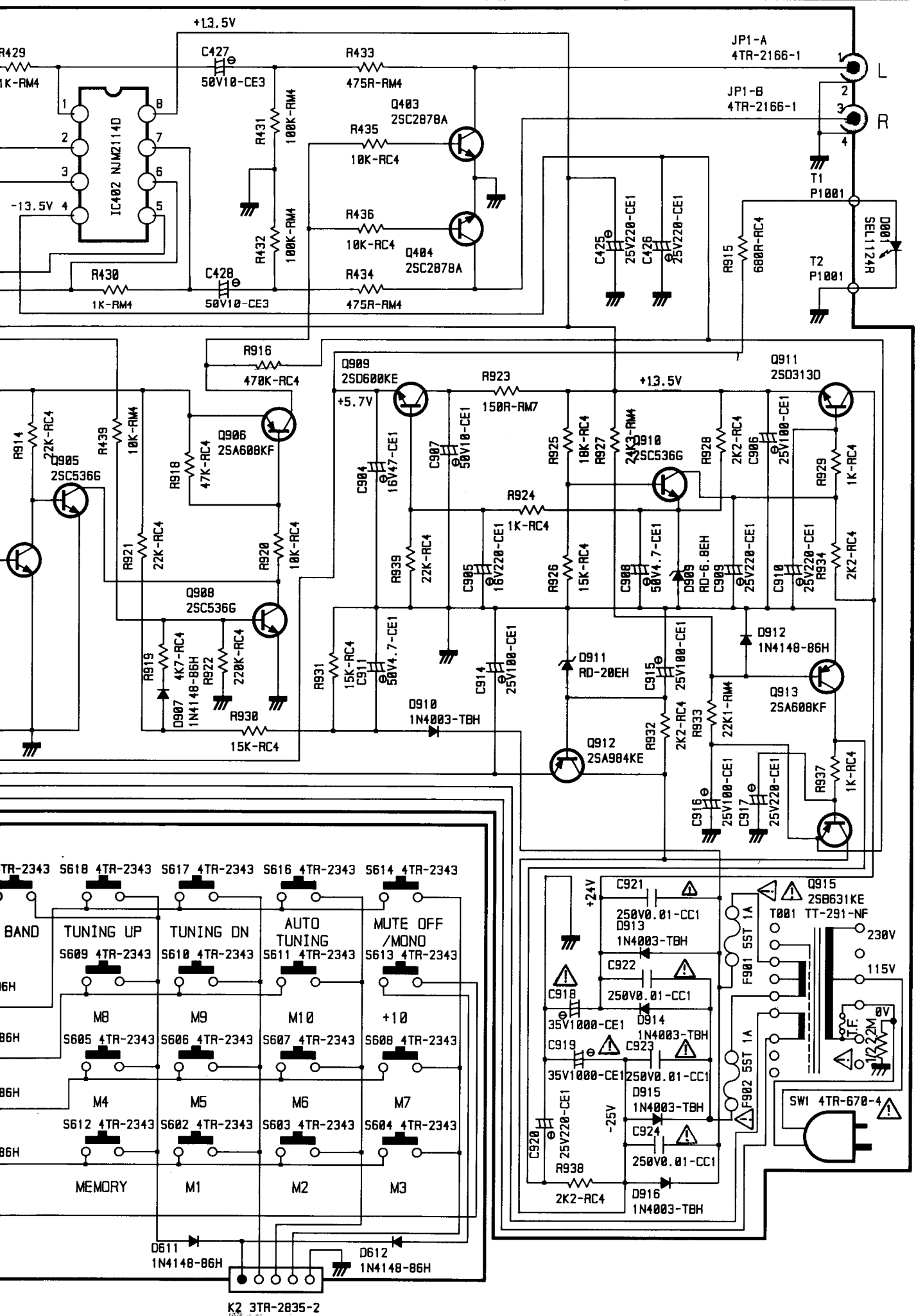


X-1216A01T

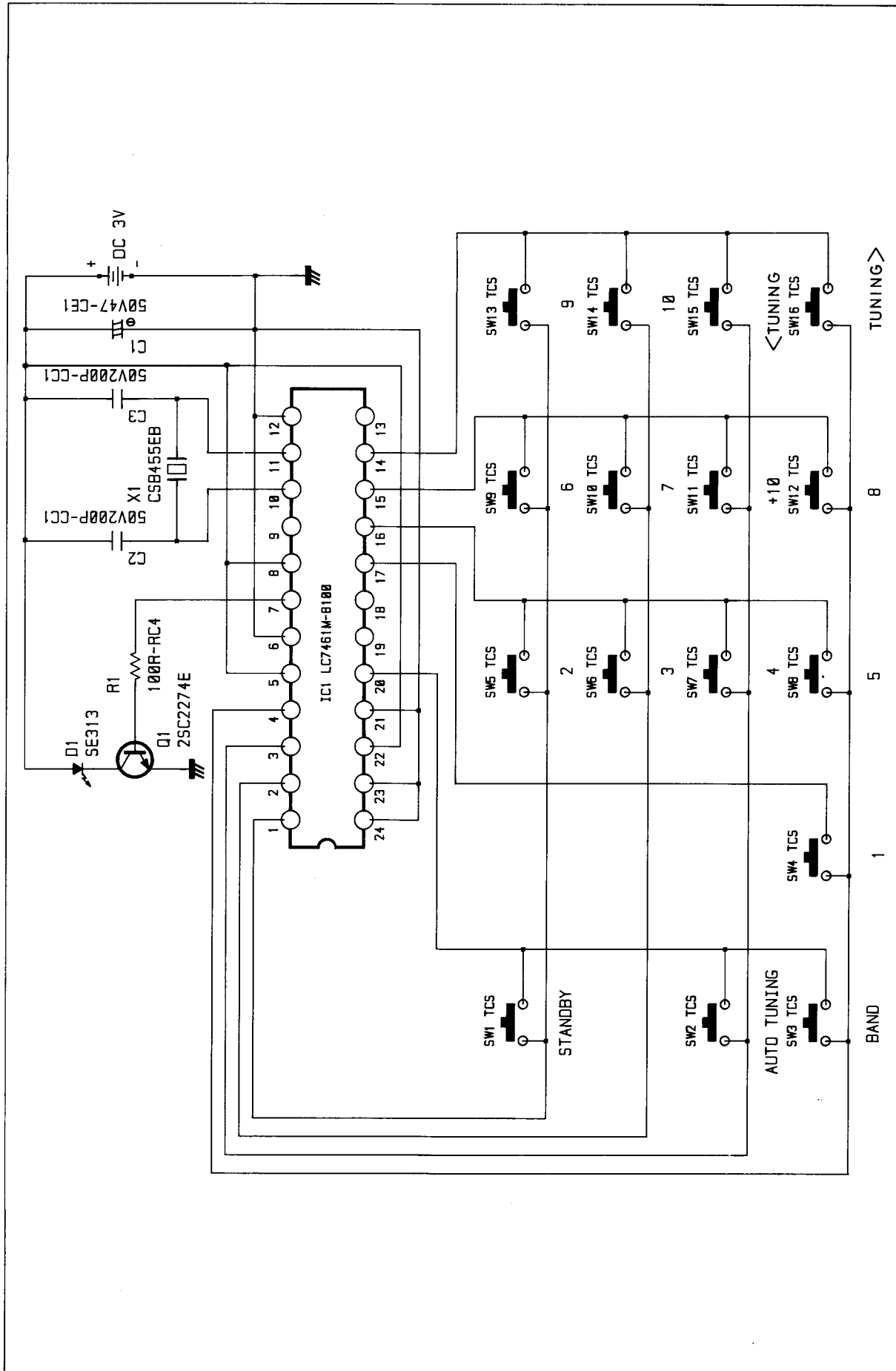
FL601 CP2372GR



K1 3TR-2835-1



SCHEMATIC DIAGRAM RR-922



Parts List

NOTE:THE COMPONENTS INDENTIFIED BY Δ MARK ARE FOR SAFFTY.REPLACE ONLY WITH ORIGINAL PARTS.DO NOT SUBSTITUTE.

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
E-1215A00T PCB ASSEMBLY			R427,428	RM81001612	R,METAL MK2001KFECZ.
R101	RD54702824	R,CARBON 47K 1/4W J	R429,430	RM82211614	R,METAL MK22K21FECZ.
R102	RD52702821	R,CARBON 27K 1/4W J	R431,432	RM81003610	R,METAL MK2100KFECZ.
R103,104	RD51003820	R,CARBON 100K 1/4W J	R433,434	RM84750619	R,METAL MK2275RFECZ.
R105	RD54709820	R,CARBON 47 1/4W J	R435,436	RD51002827	R,CAEBON 10K 1/4W J
R106	RD51500827	R,CARBON 150 1/4W J	R439	RM51002810	R,METAL 10K 1/4W
R107,108	RD54702824	R,CARBON 47K 1/4W J	R501	RD54700827	R,CARBON 470 1/4W J
R109,110	RD51003820	R,CARBON 100K 1/4W J	R502	RD55600828	R,CARBON 560 1/4W J
R111	RD54709820	R,CARBON 47 1/4W J	R503	RD52201820	R,CARBON 2.2K 1/4W J
R112	RD51000820	R,CARBON 100 1/4W J	R504	RD58201829	R,CARBON 8.2K 1/4W J
R113	RD51001823	R,CARBON 1K 1/4W J	R505	RD54700827	R,CARBON 470 1/4W J
R114	RD54709820	R,CARBON 47 1/4W J	R506	RD54701820	R,CARBON 4.7K 1/4W J
R115	RD53300829	R,CARBON 330 1/4W J	R507	RD51000820	R,CARBON 100 1/4W J
R116	RD51003820	R,CARBON 100K 1/4W J	R508	RD53300829	R,CARBON 330 1/4W J
R117	RD54709820	R,CARBON 47 1/4W J	R509	RD51002827	R,CARBON 10K 1/4W J
R118,119	RD51002827	R,CARBON 10K 1/4W J	R510	RD51001823	R,CARBON 1K 1/4W J
R120	RD51001823	R,CARBON 1K 1/4W J	R512	RD51000820	R,CARBON 100 1/4W J
R121	RD53300829	R,CARBON 330 1/4W J	R513	RD52200827	R,CARBON 220 1/4W J
R122	RD51003820	R,CARBON 100K 1/4W J	R514,515	RD51002827	R,CARBON 10K 1/4W J
R201	RD51009822	R,CARBON 10 1/4W J	R517	RD53301822	R,CARBON 3.3K 1/4W J
R202	RD51000820	R,CARBON 100 1/4W J	R518	RD51002827	R,CARBON 10K 1/4W J
R203	RD51004824	R,CARBON 1M 1/4W J	R519	RD51001823	R,CARBON 1K 1/4W J
R206	RD52200827	R,CARBON 220 1/4W J	R523	RD51002827	R,CARBON 10K 1/4W J
R207	RD56800825	R,CARBON 680 1/4W J	R524,525	RD51003820	R,CARBON 100K 1/4W J
R208	RD51003820	R,CARBON 100K 1/4W J	R527	RD54701820	R,CARBON 4.7K 1/4W J
R209	RD52200827	R,CARBON 220 1/4W J	R529	RD51002827	R,CARBON 10K 1/4W J
R210	RD51002827	R,CARBON 10K 1/4W J	R530-533	RD54702824	R,CARBON 47K 1/4W J
R211	RD54702824	R,CARBON 47K 1/4W J	R534	RD51000820	R,CARBON 100 1/4W J
R212	RD51001823	R,CARBON 1K 1/4W J	R535	RD54709820	R,CARBON 47 1/4W J
R213	RD51009822	R,CARBON 10 1/4W J	R536,537	RD54702824	R,CARBON 47K 1/4W J
R214	RD52201820	R,CARBON 2.2K 1/4W J	R538,539	RD54700827	R,CARBON 470 1/4W J
R215,216	RD51002827	R,CARBON 10K 1/4W J	R540	RD52202824	R,CARBON 22K 1/4W J
R217	RD54702824	R,CARBON 47K 1/4W J	R541,542	RD51503828	R,CARBON 150K 1/4W J
R218	RD51500827	R,CARBON 150 1/4W J	R543	RD51002827	R,CARBON 10K 1/4W J
R219	RD56802822	R,CARBON 68K 1/4W J	R545	RD51009822	R,CARBON 10 1/4W J
R220	RD53300829	R,CARBON 330 1/4W J	R546	RD51002827	R,CARBON 10K 1/4W J
R221	RD51009822	R,CARBON 10 1/4W J	R547	RD54702824	R,CARBON 47K 1/4W J
R222	RD51500827	R,CARBON 150 1/4W J	R548	RD51009822	R,CARBON 10 1/4W J
R223	RD53300829	R,CARBON 330 14W J	R901,902	RD51002827	R,CARBON 10K 1/4W J
R224	RD51000820	R,CARBON 100 1/4W J	R903	RD54702824	R,CARBON 47K 1/4W J
R225	RD53001826	R,CARBON 3K 1/4W J	R904-906	RD51002827	R,CARBON 10K 1/4W J
R226,227	RD51002827	R,CARBON 10K 1/4W J	R909	RD51002827	R,CARBON 10K 1/4W J
R228	RD55602825	R,CARBON 56K 1/4W J	R910	RD54702824	R,CARBON 47K 1/4W J
R229	RD56800825	R,CARBON 680 1/4W J	R911	RD52203828	R,CARBON 220K 1/4W J
R230	RD52702821	R,CARBON 27K 1/4W J	R912	RD54701820	R,CARBON 4.7K 1/4W J
R231	RD51200820	R,CARBON 120 1/4W J	R913	RD54703828	R,CARBON 470K 1/4W J
R232	RD51001823	R,CARBON 1K 1/4W J	R914	RD52202824	R,CARBON 22K 1/4W J
R233	RD51500827	R,CARBON 150 1/4W J	R915	RD56800825	R,CARBON 680 1/4W J
R234	RD56802822	R,CARBON 68K 1/4W J	R918	RD54702824	R,CARBON 47K 1/4W J
R235	RD51001823	R,CARBON 1K 1/4W J	R919	RD54701820	R,CARBON 4.7K 1/4W J
R236,237	RD51002827	R,CARBON 10K 1/4W J	R920	RD51002827	R,CARBON 10K 1/4W J
R238	RD53301822	R,CARBON 3.3K 1/4W J	R921	RD52202824	R,CARBON 22K 1/4W J
R239	RD51002827	R,CARBON 10K 1/4W J	R922	RD52203828	R,CARBON 220K 1/4W J
R240	RD52201820	R,CARBON 2.2K 1/4W J	R923	RM91500121	R,METAL 150 1W
R241	RD53301822	R,CARBON 3.3K 1/4W J	R924	RD51001823	R,CARBON 1K 1/4W J
R242,243	RD56801829	R,CARBON 6.8K 1/4W J	R925	RD51802820	R,CARBON 18K 1/4W J
R401	RM84759611	R,METAL MK247R5FECZ.	R926	RD51502824	R,CARBON 15K 1/4W J
R402	RM62201019	R,METAL 02K2 F T-1	R927	RM52432811	R,METAL 24.3K 1/4W
R403	RM85621610	R,METAL MK25K62FECZ.	R928	RD52201820	R,CARBON 2.2K 1/4W J
R404	RM53322818	R,METAL 33.2K 1/4W	R929	RD51001823	R,CARBON 1K 1/4W J
R405-407	RM51002810	R,METAL 10K 1/4W	R930,931	RD51502824	R,CARBON 15K 1/4W J
R409	RM55622817	R,METAL 56.2K 1/4W	R932	RD52201820	R,CARBON 2.2K 1/4W J
R410	RM51001816	R,METAL 1K 1/4W	R933	RM52212811	R,METAL 22.1 1/4W
R413	RM62202012	R,METAL 22K0 F T-1	R934	RD52201820	R,CARBON 2.2K 1/4W J
R415,416	RM81003610	R,METAL MK2100KFECZ.	R937	RD51001823	R,CARBON 1K 1/4W J
R417,418	RM81543615	R,METAL MK2154KFECZ.	R938	RD52201820	R,CARBON 2.2K 1/4W J
R419,420	RM83321610	R,METAL MK23K32FECZ.	R939	RD52202824	R,CARBON 22K 1/4W J
R421,422	RM82211614	R,METAL MK22K21FECZ.	C101	CC55013419	CAP,CERAMIC 5P 50V
R423,424	RM85621610	R,METAL MK25K62FECZ.	C102	CC44712433	CAP,CERAMIC 47P 50V

Parts List

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
C103, 104	CC41009462	CAP, CERAMIC 0.01uF 50V	C516	CC43311431	CAP, CERAMIC 330P 50V
C105, 106	CC57013411	CAP, CERAMIC 7P 50V	C517	CE41007503	CAP, ELEC. 1uF 50V
C107	CC53013416	CAP, CERAMIC 3P 50V	C518-536	CC41009462	CAP, CERAMIC 0.01uF 50V
C108	CC51012410	CAP, CERAMIC 10P 50V	C537, 538	CC32211432	CAP, CERAMIC 220P 50V
C109	CC41011432	CAP, CERAMIC 100P 50V	C539	CE42207500	CAP, ELEC. 2.2uF 50V
C110-113	CC41009462	CAP, CERAMIC 0.01uF 50V	C540	CE41006500	CAP, ELEC. 0.01uF 50V
C114	CC55013419	CAP, CERAMIC 5P 50V	C541, 542	CC41009462	CAP, CERAMIC 0.01uF 50V
C115-117	CC41009462	CAP, CERAMIC 0.01uF 50V	C543	CE41007503	CAP, ELEC. 1uF 50V
C118	CC53013416	CAP, CERAMIC 3P 50V	C544	CE44706258	CAP, ELEC. 47uF 25V
C119	CC56013415	CAP, CERAMIC 6P 50V	C545	CE41007503	CAP, ELEC. 1uF 50V
C120	CC57013411	CAP, CERAMIC 7P 50V	C546	CE43307502	CAP, ELEC. 3.3uF 50V
C121	CC43312435	CAP, CERAMIC 33P 50V	C547	CE41006500	CAP, ELEC. 10uF 50V
C122	CC51012410	CAP, CERAMIC 10P 50V	C548	CE52208951	CAP, ELEC. FYDOH224Z
C123	CE02205164	CAP, ELEC. 220uF 16V	C901	CE02205255	CAP, ELEC. 220uF 25V
C124, 125	CC41009462	CAP, CERAMIC 0.01uF 50V	C902, 903	CE44706258	CAP, ELEC. 47uF 25V
C126	CC53013416	CAP, CERAMIC 3P 50V	C904	CE44706167	CAP, ELEC. 47uF 16V
C201, 202	CC45009456	CAP, CERAMIC 0.05uF 50V	C905	CE02205164	CAP, ELEC. 220uF 16V
C203	CC41009462	CAP, CERAMIC 0.01uF 50V	C906	CE41005257	CAP, ELEC. 100uF 25V
C204	CC56013415	CAP, CERAMIC 6P 50V	C907	CE41006500	CAP, ELEC. 10uF 50V
C205	CC41010439	CAP, CERAMIC 0.001uF 50V	C908	CE44707500	CAP, ELEC. 4.7uF 50V
C206	CC41009462	CAP, CERAMIC 0.01uF 50V	C909, 910	CE02205255	CAP, ELEC. 220uF 25V
C207	CC45009456	CAP, CERAMIC 0.05uF 50V	C911	CE44707500	CAP, ELEC. 4.7uF 50V
C208	CE41007503	CAP, ELEC. 1uF 50V	C912	CC41009462	CAP, CERAMIC. 0.01uF 50V
C209	CS43911424	CAP, STYROL 390P 50V	C913	CE41007503	CAP, ELEC. 1uF 50V
C210	CC51512417	CAP, CERAMIC 15P 50V	C914-916	CE41005257	CAP, ELEC. 100uF 25V
C211-214	CC41009462	CAP, CERAMIC 0.01uF 50V	C917	CE02205255	CAP, ELEC. 220uF 25V
C215-218	CC45009456	CAP, CERAMIC 0.05uF 50V	C918, 919	CE01004357	CAP, ELEC. 1000uF 35V Δ
C219	CE02205164	CAP, ELEC. 220uF 16V	C920	CE02205255	CAP, ELEC. 220uF 25V
C220	CC45009456	CAP, CERAMIC 0.05uF 50V	C921-924	CC01009256	CAP, CERAMIC 0.01uF 250V Δ
C221	CE42207500	CAP, ELEC. 2.2uF 50V	L101	LC23390009	FM ANT. COIL TRL-339
C222	CS33311300	CAP, POLYSTYRENE 330P 160V	L102	LC23380004	FM RF COIL TRL-338
C223	CC41009462	CAP, CERAMIC 0.01uF 50V	L103	LC23370000	FM RF COIL TRL-337
C224	CC45009456	CAP, CERAMIC 0.05uF 50V	L104	LM00000073	MICRO INDUCTOR 2.2uH
C225	CC41009462	CAP, CERAMIC 0.01uF 50V	L105	LC02330000	FM IF COIL RL-233T
C226	CE44707500	CAP, ELEC. 4.7uF 50V	L106	LC23360005	FM OSC COIL TRL-336
C227	CE41006500	CAP, ELEC. 10uF 50V	L107	LM00000073	MICRO INDUCTOR 2.2uH
C228	CE43307502	CAP, ELEC. 3.3uF 50V	L108	LM00000024	MICRO INDUCTOR 47uH
C229	CE41006500	CAP, ELEC. 10uF 50V	L202	LC23720009	AM ANT. COIL TRL-372
C230	CM14709435	CAP, MYLAR 473 K 50V	L203	LC31050009	AM OSC COIL RLV-105T
C231	CM11509435	CAP, MYLAR 153 K 50V	L204	LC23420002	FM DET COIL TRL-342
C232	CC44712433	CAP, CERAMIC 47P 50V	L205	LM00000425	MICRO INDUCTOR 39mH
C233	CE44707500	CAP, ELEC. 4.7uF 50V	L206	LC23230006	AM IF COIL TRL-323
C234	CC45009456	CAP, CERAMIC 0.05uF 50V	L401	LC23060009	MPX FILTER TRL-306
C401	CE41007503	CAP, ELEC. 1uF 50V	L402, 403	LC21940006	FM MPX FILTER TRL-194
C402	CE51006477	CAP, ELEC. 50BGF10M	L501	LM00000073	MICRO INDUCTOR 2.2uH
C403	CE52205779	CAP, ELEC. 16BGF220M	X201, 202	LF00000166	CERAMIC FILTER SEF10.7MS2GY-A
C404	CE41007503	CAP, ELEC. 1uF 50V	X203	LF00000191	CERAMIC FILTER BUF450C4N
C405	CE42208504	CAP, ELEC. 0.22uF 50V	X401	LF00000300	CERAMIC FILTER CSB456F11
C406	CE41007503	CAP, ELEC. 1uF 50V	X501	DD60000040	CRYSTAL OSC HC49U7.2MHZ
C407	CE44708504	CAP, ELEC. 0.47uF 50V	X502	LF00000294	CERAMIC FILTER CSB800J
C408	CM14709435	CAP, MYLAR 473 K 50V	CT101-104	CF00000184	CAP, FILM TRIMMER VCT51A
C409	CC41010439	CAP, CERAMIC 0.001uF 50V	CT201, 202	CF00000159	CAP, FILM TRIMMER VCT51C
C410	CE54707478	CAP, ELEC. 50BGF47M	VR201	RV20000480	R, SEMI-FIXED RH0615C10400
C411	CE41007503	CAP, ELEC. 1uF 50V	VR202	RV20000466	R, SEMI-FIXED RH0615C33300
C412	CE41016500	CAP, ELEC. 10uF 50V	VR401	RV20000480	R, SEMI-FIXED RH0615C10400
C413, 414	CS35611319	CAP, STYROL 560P 160V	IC201	IC00001796	IC LA1265
C415, 416	CS42211420	CAP, STYROL 220P 50V	IC401	IC00002636	IC LA3401
C417, 418	CE51006477	CAP, ELEC. 50BGF10M	IC402	IC00002235	IC TL-072CP
C425, 426	CE51005679	CAP, ELEC. 25BGF100M	IC501	IC00001826	IC TC9172AP
C427, 428	CE51006477	CAP, ELEC. 50BGF10M	IC502	IC00003793	IC M51953BL
C501	CE41007503	CAP, ELEC. 1uF 50V	IC503	IC00001814	IC TC9303AN-001
C502, 503	CE02205255	CAP, ELEC. 220uF 25V	IC504	IC00001759	IC LC6522C-3433
C504	CM14709435	CAP, MYLAR 473 K 50V	IC505	IC00000883	IC LB1423N
C505	CE44708504	CAP, ELEC. 0.47uF 50V	D101-104	DD50000020	DIODE SVC202AF
C506	CC41009462	CAP, CERAMIC 0.01uF 50V	D201, 202	DD50000031	DIODE SVC321SPA-B-2
C507	CE41007503	CAP, ELEC. 1uF 50V	D203	DD80000021	DIODE IN4148-86
C508-511	CC41009462	CAP, CERAMIC 0.01uF 50V	D401, 402	DD80000021	DIODE IN4148-86
C512	CC45009456	CAP, CERAMIC 0.05uF 50V	D505-516	DD80000021	DIODE IN4148-86
C513	CE02204068	CAP, ELEC. 2200uF 6.3V Δ			
C514, 515	CC41512433	CAP, CERAMIC 15P 50V			

Parts List

SYMBOL	PARTS NO.	DESCRIPTION
D547-554	DD80000021	DIODE IN4148-86
D902	DD80000021	DIODE IN4148-86
D904	DD80000021	DIODE IN4148-86
D906, 907	DD80000021	DIODE IN4148-86
D905	DD80000010	DIODE IN4003-TB
D908	DD20000168	DIODE RD-5.6E
D909	DD20000065	DIODE RD-6.8E
D910	DD80000010	DIODE IN4003-TB
D911	DD20000028	DIODE RD-20E
D912	DD80000021	DIODE IN4148-86
D913-916	DD80000010	DIODE IN4148-86
Q101, 102	TR50000206	TRANSISTOR 3SK180-DJ5-TF
Q103	TR50000103	TRANSISTOR 2SK544F
Q104	TR30000133	TRANSISTOR 2SC1674
Q105	TR50000103	TRANSISTOR 2SK544F
Q201	TR50000103	TRANSISTOR 2SK544F
Q202	TR30000133	TRANSISTOR 2SC1674
Q203	TR30000121	TRANSISTOR 2SC2274E
Q204	TR10000140	TRANSISTOR 2SA984KE
Q205, 206	TR30000327	TRANSISTOR 2SC536G-NP
Q401	TR30000327	TRANSISTOR 2SC536G-NP
Q402	TR30000492	TRANSISTOR 2SC3399
Q403, 404	TR30000583	TRANSISTOR 2SC2878
Q501	TR30000121	TRANSISTOR 2SC2274E
Q502	TR50000127	TRANSISTOR 2SK246-Y
Q503	TR30000108	TRANSISTOR 2SC1570E/F
Q504	TR30000492	TRANSISTOR 2SC3399
Q505, 506	TR30000327	TRANSISTOR 2SC536G-NP
Q507-521	TR31000010	TRANSISTOR 2SC3400
Q522-536	TR10000254	TRANSISTOR 2SA1345
Q537, 538	TR10000126	TRANSISTOR 2SA608KF/KG
Q539, 540	TR30000327	TRANSISTOR 2SC536G-NP
Q901, 902	TR10000059	TRANSISTOR 2SB764E/F
Q904	TR30000538	TRANSISTOR 2SC2878(A,B)
Q905	TR30000327	TRANSISTOR 2SC536G-NP
Q906	TR10000126	TRANSISTOR 2SA608KF/KG
Q907, 908	TR30000327	TRANSISTOR 2SC536G-NP
Q909	TR40000069	TRANSISTOR 2SD600KE/KF
Q910	TR30000327	TRANSISTOR 2SC536G-NP
Q911	TR30000029	TRANSISTOR 2SD313D
Q912	TR10000140	TRANSISTOR 2SA984KE/KF
Q913	TR10000126	TRANSISTOR 2SA608KF/KG
Q915	TR10000047	TRANSISTOR 2SB631KE/KF
F901, 902	FU25000077	FUSE 250V T1A UL/CSA Δ
	FU23000207	FUSE 250V T1A S Δ
R001	RD02204928	R, CARBON 2.2M 1/2W Δ
	X-1216A01T	PCB ASSEMBLY
IC601	IC00002030	IC SBX1610-02
D601-605	DD40000095	LED SEL1124R
D606-612	DD80000021	DIODE IN4148-86
FL601	DD40001166	FL TUBE CP2372GR
S602-618	SH60000240	KEY BOARD SW 4R-2343
	X-1216A02T	PCB ASSEMBLY
S601	SH60000239	KEY BOARD SW 4TR-2301 Δ
	TX40911	PCB ASSEMBLY
X204	LF00000245	CERAMIC FILTER SFP450H
	OTHERS	
	AB00000596	PAINTED BOTTOM BOARD
	4TQN-12B#1	
	AF30000220	FRONT CHASSIS 3TPH-2
	AR30000222	PRINTED REAR CHASSIS
	TRP-651	

SYMBOL	PARTS NO.	DESCRIPTION
AS01000385		SIDE CHASSIS 3TQG-1C#3
PT29110106		POWER TRANSFORMER
TT-291-NF Δ		
FT00000229		PLASTIC FOOT 4TSH-19#2
		50Fx14H
SB00000790		PVC SHIELD BOARD 4TR-2926A
SC00000027		AC CORD STOPPER SR-4N-4 Δ
SG00000055		SPONGE 4TR-598
SR00001187		RUBBER SPACER TR-2927#1
CD00000218		AC POWER CORD SPT-2 AWG#18
		4TR-670#4 (U,C,A,J) Δ
CD00000322		AC POWER CORD 4TR-2757(D) Δ
CD00000048		AC POWER CORD 4TR-1037
		(H,E,S1,Y) Δ
CD00000085		AC POWER CORD C-2504A(K1) Δ
CD00000115		AC POWER CORD C-3763-T(G1) Δ
NP00001949		NAME STICKER AC120V
		4TR-2828A#1 TNP-382
NP00002127		NAME STICKER AC230V
		4TR-2828A#9 TNP-396
NP00001962		NAME STICKER AC240V
		4TR-2828A#3 TNP-384
NP00002012		NAME STICKER AC100V
		4TR-2828A#6 TNP-391
NP00001950		NAME STICKER AC220V
		4TR-2828A#2 TNP-383
AA30000473		FRONT PANEL 3TPH-1 TFP-716
AW00000575		PANEL WINDOW 4TQS-7#4
BU00001145		POWER RING W/LED 4TQF-13
KB20002681		POWER BUTTON 4TQF-15 14x14
KB20002760		TACT BUTTON 2TQN-6 12 KEY
KB20002772		TACT BUTTON 2TQN-7 5 KEY
OM10001260		ORNAMENTAL SIDE BOARD
		4TR-2797#1 H=60MM
DD40000095		LED SEL1124R
OM70000065		PUSH BUTTON CONNECTOR
		4TTL-15
SN00000179		BUTTON SPRING 4TR-1988A#2
		10F
AU00001183		TOP COVER POLY 3TTE-6#3
OM10001818		FL ORNAMENTAL PLATE 4TPH-4
LB03740005		AM LOOP ANT. W/HOLDER
		TRL-374
OM70000259		FILTER BOARD 4TSJ-9#4 83x22
SR00000882		UPPER COVER SPACER 4TR-2418
PL00001087		STYROL SIDE MOULDING
		2TTE-8B#2 TZ-164-1
TN10004700		INSIDE CARTON 4TPH-5
MN10003542		OWNER'S MANUAL RT-940AX