

TECHNICAL MANUAL

Quality. Uncompromised

ROTEL®

RX-850A

AM/FM STEREO RECEIVER

RX-850AL

LW/MW/FM STEREO RECEIVER

TABLE OF CONTENTS

Chassis Layout	1
Adjustment	2
PC Board Ass'y Parts List.....	4
Printed Circuit Boards.....	8
Schematic Diagram.....	10
Wiring Diagram.....	14

THE ROTEL CO., LTD.

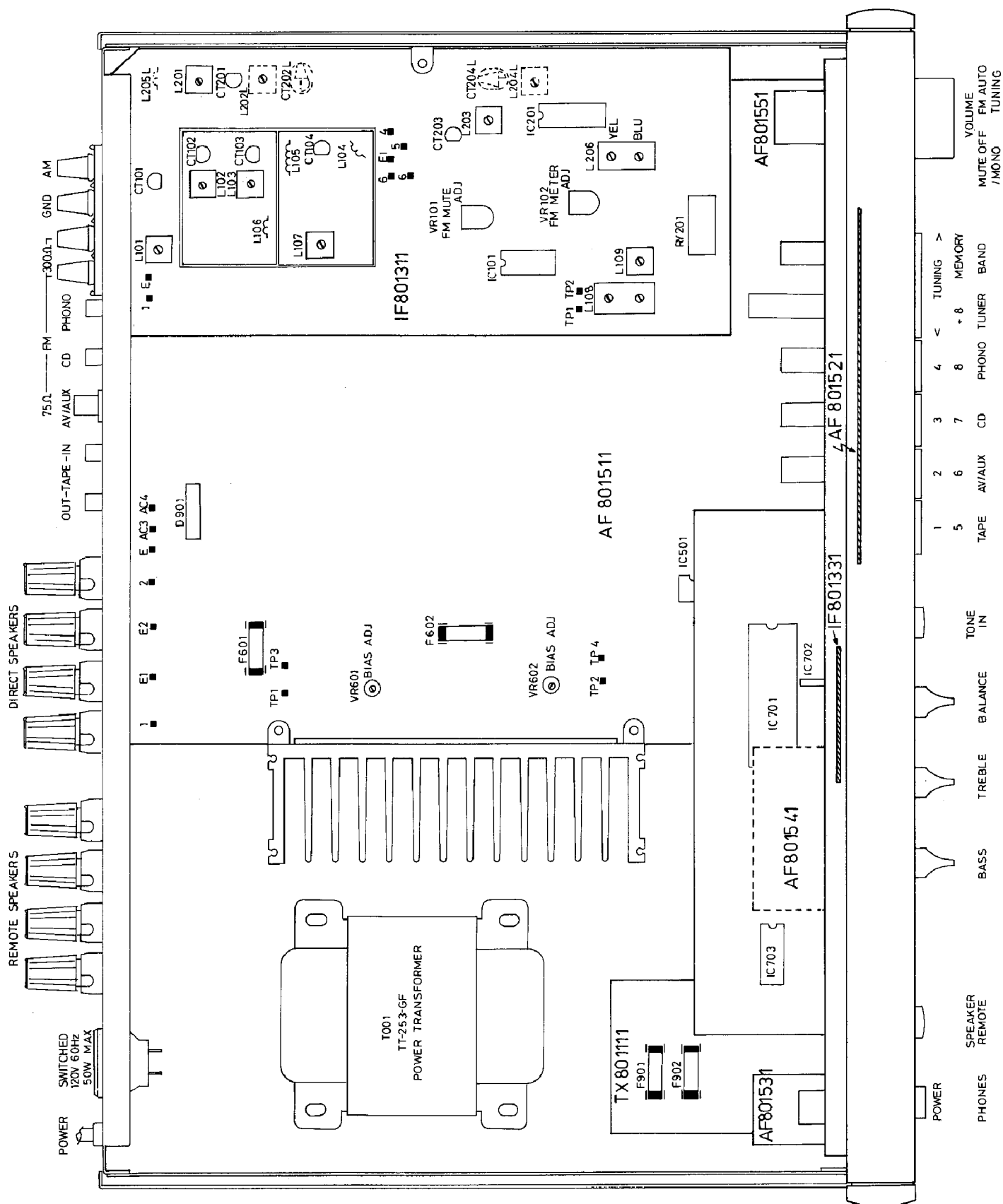
1-36-8 OHOKAYAMA, MEGURO-KU, TOKYO 152, JAPAN

ROTEL ELECTRONICS CO., LTD.

ROTEL BLDG., 3F. NO. 35, FUSING N. ROAD, TAIPEI, TAIWAN, REPUBLIC OF CHINA

MN20001512

Chassis Layout



FM IF and RF Alignment

Instruments : FM Signal Generator, (400Hz, 100% Modulated) T.H.D. analyzer, Oscilloscope, AC VTVM, DC Voltmeter, Tuning Meter

Terminated : DC Voltmeter...Between 4 and E1 On IF801311 P.C.B
Tuning Meter...Between TP1 and TP2 On IF801311 P.C.B

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	No use.		87.5 MHz	L104	1.4V $\pm$ 0.1V reading on DC Voltmeter
2			108 MHz	CT104	9V $\pm$ 0.2V reading on DC Voltmeter
3	Repeat steps 1 and 2 unit no further improvement is noticed.				
4	Antenna terminal	90 MHz	90 MHz	L101, L102 L103	Maximum reading on AC VTVM.
5		106 MHz	106 MHz	CT101, CT102 CT103	Maximum reading on AC VTVM.
6	Repeat steps 4.5 and 6 unit on further improvement is noticed (Muting OFF)				
7	Antenna terminal 1mV input	90 MHz	90 MHz	L108(A)	Adjust center on Tuning Meter
8				L108(B)	Minimum reading on T.H.D. Analyzer
9	Repeat steps 7 and 8 unit no further improvement is noticed (Muting OFF)				
10	Antenna terminal 12 μ V input Europe : 7 μ V	90 MHz	90 MHz	VR101	Muting Level (Muting ON)
11	Antenna terminal 1mV input	98 MHz	98 MHz	VR102	Signal Indicator Level 5th LED light On (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	L107	Stereo indicator light up (Muting ON) Minimum reading on T.H.D. Analyzer
2	Antenna terminal 1mV input	98 MHz Pilot.....10% 1 KHz.....90% Mod.	98 MHz	VR303,304	Best separation

MW IF and RF Alignment

Instruments : AM signal Generator (400Hz 30% Modulated), AC VTVM, Oscilloscope, DC Voltmeter

Terminated : DC Voltmeter...Between TP4 and Earth On IF801311 P.C.B

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	No use.		520 KHz (522 KHz) Europe	L203	About 1.3V ± 0.1V on DC Volt meter
2			1710 KHz (1611 KHz)Europe	CT203	About 9V ± 0.2V on DC Volt meter
3	Repeat steps 1 and 2 unit no further improvement is noticed.				
4	Test Loop Radiate signal into loop antenna	450 KHz	520KHz	L204,205,206	Maximum reading on AC VTVM.
5		600 KHz	600KHz	L201	
6		1400 KHz	1400 KHz	CT201	
7	Repeat steps 5 and 6 unit no further improvement is noticed.				

LW RF Alignment

Instruments : AM signal Generator (400Hz 30% Modulated), AC VTVM, Oscilloscope, DC Voltmeter

Terminated : DC Voltmeter...Between TP4 and Earth On IF801311 P.C.B

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	No use.		153KHz	L204L	About. 2.5V ±0.1V on DC Volt meter
2			281KHz	CT204L	About 8V ±0.2V on DC Volt meter
3	Repeat steps 1 and 2 unit no further improvement is noticed.				
4	Test Loop Radiate signal into loop antenna	160KHz	160KHz	L202L	Maximum reading on AC VTVM.
5		260KHz	260KHz	CT202L	
6	Repeat steps 4 and 5 unit no further improvement is noticed.				

Power Amplifier Bias Adjustment

Instruments: DC milli-voltmeter

Notes: Prior to Bias Adjustment, run about 5 minutes with rated output (8 ohm) and warm up Power Transistor and Heat Sink.
Set Volume Control to Minimum.

Step	Coupling		Adjust	Adjust for
	Plus Lead	Minus Lead		
1	TP1	TP3	VR601	DC milli-voltmeter reads 4 mV
2	TP2	TP4	VR602	

Parts List

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

SYMBOL	PARTS NO.	DESCRIPTION
IF-801311 PCB ASSEMBLY		
R101	RD44702827	R,CARBON 47K J 1/4W
R102	RD12209820	R,CARBON 22 J 1/4W
R103	RD41500820	R,CARBON 150 J 1/4W
R104	RD41003823	R,CARBON 100K J 1/4W
R105	RD48201821	R,CARBON 8.2K J 1/4W
R106,107	RD41003823	R,CARBON 100K J 1/4W
R108,109	RD44702827	R,CARBON 47K J 1/4W
R110	RD44701823	R,CARBON 4.7K J 1/4W
R111	RD42202827	R,CARBON 22K J 1/4W
R112	RD42201823	R,CARBON 2.2K J 1/4W
R113,114	RD14709820	R,CARBON 47 J 1/4W
R115,116	RD41002820	R,CARBON 10K J 1/4W
R117	RD46800828	R,CARBON 680 J 1/4W
R118	RD43301825	R,CARBON 3.3K J 1/4W
R119	RD41003823	R,CARBON 100K J 1/4W
R120,122	RD43300821	R,CARBON 330 J 1/4W
R121	RD44700820	R,CARBON 470 J 1/4W
R123	RD16802823	R,CARBON 68K J 1/4W
R124,125	RD41000822	R,CARBON 100 J 1/4W
R126,127	RD43300821	R,CARBON 330 J 1/4W
R128	RD44702827	R,CARBON 47K J 1/4W
R129	RD41002820	R,CARBON 10K J 1/4W
R130	RD41000822	R,CARBON 100 J 1/4W
R131	RD42201823	R,CARBON 2.2K J 1/4W
R132	RD44701823	R,CARBON 4.7K J 1/4W
R133	RD11801828	R,CARBON 1.8K J 1/4W
R134	RD12203829	R,CARBON 220K J 1/4W
R135	RD11001824	R,CARBON 1K J 1/4W
R136	RD15600829	R,CARBON 560 J 1/4W
R137,138	RD42202827	R,CARBON 22K J 1/4W
R139	RD48201821	R,CARBON 8.2K J 1/4W
R140	RD42202827	R,CARBON 22K J 1/4W
R141	RD44709822	R,CARBON 47 J 1/4W
R142	RD44702827	R,CARBON 47K J 1/4W
R143	RD48201821	R,CARBON 8.2K J 1/4W
R144	RD44701823	R,CARBON 4.7K J 1/4W
R145	RD41002820	R,CARBON 10K J 1/4W
R146	RD18202823	R,CARBON 82K J 1/4W
R147	RD44702827	R,CARBON 47K J 1/4W
R148	RD42202827	R,CARBON 22K J 1/4W
R149	RD44701823	R,CARBON 4.7K J 1/4W
R150	RD42200820	R,CARBON 220 J 1/4W
R151	RD42202827	R,CARBON 22K J 1/4W
R152	RD41003823	R,CARBON 100K J 1/4W
R153	RD44702827	R,CARBON 47K J 1/4W
R154	RD41000822	R,CARBON 100 J 1/4W
R155	RD42202827	R,CARBON 22K J 1/4W
C101	CC13013417	CAP,CERAMIC 3P CH 50V
C102	CC41011432	CAP,CERAMIC 100P 50V
C103,104	CC31009465	CAP,CERAMIC 0.01uF 50V
C105,107	CC55013419	CAP,CERAMIC 5P CH 50V
C108,109	CC31013481	CAP,CERAMIC 1P 50V
C110	CC41011432	CAP,CERAMIC 100P 50V
C111	CC56013415	CAP,CERAMIC 6P CH 50V
C112	CC55013419	CAP,CERAMIC 5P CH 50V
C113	CC53312419	CAP,CERAMIC 33P CH 50V
C114,115	CC55013419	CAP,CERAMIC 5P CH 50V
C117	CE41007503	CAP,ELEC. 1uF 50V
C118,120	CC31009465	CAP,CERAMIC 0.01uF 50V
C121	CE41005166	CAP,ELEC. 100uF 16V
C122,126	CC31009465	CAP,CERAMIC 0.01uF 50V
C127	LF00000166	CERAMIC FILTER SFE10.7MS2GA
C127	CC31009465	CAP,CERAMIC 0.01uF 50V (RX-850AL)
C128,130	CC05009457	CAP,CERAMIC 0.047uF 50V
C131	CE04707252	CAP,ELEC. 4.7uF 25V
C132	CS43311433	CAP,STYROL 330P 50V
C133,134	CL01006256	CAP,LOW NOISE 10uF 25V
C135	CE41007503	CAP,ELEC. 1uF 50V

SYMBOL	PARTS NO.	DESCRIPTION
C136	CE01005106	CAP,ELEC. 100uF 10V
C137	CC45009456	CAP,CERAMIC 0.047uF 50V
C138	CE01005167	CAP,ELEC. 100uF 16V
C139,140	CC45009456	CAP,CERAMIC 0.047uF 50V
C141,144	CE41007503	CAP,ELEC. 1uF 50V
C142,143	CC45009456	CAP,CERAMIC 0.047uF 50V
C145	CC45009456	CAP,CERAMIC 0.047uF 50V
D101-104	DD50000020	DIODE SVC202AF
D105-109	DD10000100	DIODE 1N4148
Q101	TR50000140	TRANSISTOR 3SK107F
Q102	TR30000327	TRANSISTOR 2SC536
Q103,104	TR30000133	TRANSISTOR 2SC1674
Q105	TR50000103	TRANSISTOR 2SK544
Q106	TR30000133	TRANSISTOR 2SC1674
Q107,108	TR30000108	TRANSISTOR 2SC1571
Q109	TR30000327	TRANSISTOR 2SC536
IC101	IC00001103	IC LA1235
CT101-103	CF00000159	CAP,FILM TRIMMER VCT51C
CT104	CF00000184	CAP,FILM TRIMMER VCT51A
X101	LF00000014	CERAMIC FILTER SFE10.7MA8-A
102	LF00000166	CERAMIC FILTER SFE10.7MS2GA
L101	LC02370009	FM ANT COIL RL-237T
L102	LC22200006	FM RF COIL TRL-220
L103	LC22210000	FM RF COIL TRL-221
L104	LC23360005	FM OSC COIL TRL-336
L105	LM00000346	MICRO INDUCTION RL-247T
L106	LM00000073	MICRO INDUCTION 2.2uH
L107	LC02330000	FM IF COIL RL-233T
L108	LC31090007	IF COIL RLV-109T
L109	LC23060009	MPX FILTER TRL-306
VR101,102	RV20000193	R,SEMI-FIXED 08-301 10KB
R201,204	RD44709822	R,CARBON 47 J 1/4W
R202,203	RD41003823	R,CARBON 100K J 1/4W
R205	RD43300821	R,CARBON 330 J 1/4W
R206L-211L	RD16801820	R,CARBON 6.8K J 1/4W
R212,215	RD41000822	R,CARBON 100 J 1/4W
R213	RD42200820	R,CARBON 220 J 1/4W
R214	RD11501821	R,CARBON 1.5K J 1/4W
R215	RD44700820	R,CARBON 470 J 1/4W
R217	RD41000822	R,CARBON 100 J 1/4W
R218	RD41001826	R,CARBON 1K J 1/4W
R219	RD41002820	R,CARBON 10K J 1/4W
R220	RD41000822	R,CARBON 100 J 1/4W
R221	RD42200820	R,CARBON 220 J 1/4W
R222	RD41002820	R,CARBON 10K J 1/4W
R223,224	RD44701823	R,CARBON 4.7K J 1/4W
R225	RD18202823	R,CARBON 82K J 1/4W
R226	RD41002820	R,CARBON 10K J 1/4W
R227	RD41500820	R,CARBON 150 J 1/4W
C201	CC41009462	CAP,CERAMIC 0.01uF 50V
C202L	CM08210426	CAP,MYLAR 822 J 50V
C203	CC55013419	CAP,CERAMIC 5P CH 50V
C204L	CC11012410	CAP,CERAMIC 10P CH 50V
C205	CC41009462	CAP,CERAMIC 0.01uF 50V
C206	CS43911424	CAP,STYROL 390P 50V
C207	CC11512418	CAP,CERAMIC 15P CH 50V
C208L	CC16812416	CAP,CERAMIC 68P CH 50V
C209L	CS41811426	CAP,STYROL 180P 50V
C210L-212L	CC41009462	CAP,CERAMIC 0.01uF 50V
C213	CC05009457	CAP,CERAMIC 0.047uF 50V
C214	CC42009457	CAP,CERAMIC 0.02uF 50V
C215	CC41010439	CAP,CERAMIC 0.001uF 50V
C216	CC05009457	CAP,CERAMIC 0.047uF 50V
C217,218	CC41009462	CAP,CERAMIC 0.01uF 50V
C219	CE01005167	CAP,ELEC. 100uF 16V
C220	CC41009462	CAP,CERAMIC 0.01uF 50V
C221	CC42009457	CAP,CERAMIC 0.02uF 50V
C222	CC41010439	CAP,CERAMIC 0.001uF 50V
C223	CE01005167	CAP,ELEC. 100uF 16V
C224	CC41009462	CAP,CERAMIC 0.01uF 50V
C225	CM02208434	CAP,MYLAR 224 K 50V

SYMBOL	PARTS NO.	DESCRIPTION
C226	CM02209426	CAP,MYLAR 223 J 50V
C227	CC41009462	CAP,CERAMIC 0.01uF 50V
C228	CE41007503	CAP,ELEC. 1uF 50V
C229	CE44708504	CAP,ELEC. 0.47uF 50V
C230	CE43307253	CAP,ELEC. 3.3uF 25V
CT201	CF00000159	CAP,FILM TRIMMER VCT51C
CT202L	CF00000263	CAP,FILM TRIMMER ATI-53-9W
CT203	CF00000159	CAP,FILM TRIMMER VCT-51C
CT204L	CF00000263	CAP,FILM TRIMMER ATI-53-9W
X201	LF00000221	CERAMIC FILTER BFU450C
D210,202	DD50000031	DIODE SVC321B
D203L	DD10000100	DIODE 1N4148
D204-206	DD10000100	DIODE 1N4148
Q201	TR50000097	TRANSISTOR 2SK49
Q202L-207L	TR30000327	TRANSISTOR 2SC536
IC201	IC00001322	IC LA1245
L201	LC31070008	AM ANT COIL RLV107A00
L202L	LC31080002	LW ANT COIL RLV108
L203	LC31050009	AM OSC COIL RLV105T
L204L	LC31060003	LW OSC COIL RLV106
L205	LM00000073	MICRO INDUCTION 2.2uH
L206	LC01980000	AM IFT COIL RL198T
RY201	LY00000095	RELAY RY12W-0H
	TP20000250	4P ANT TERMINAL 4TR-2358
	IF-801321	PCB ASSEMBLY
R701	RD45601824	R,CARBON 5.6K J 1/4W
R702	RD14702825	R,CARBON 47K J 1/4W
R703,704	RD41002820	R,CARBON 10K J 1/4W
R705,706	RD43302829	R,CARBON 33K J 1/4W
R707	RD41002820	R,CARBON 10K J 1/4W
R708	RD46802825	R,CARBON 68K J 1/4W
R709	RD48202825	R,CARBON 82K J 1/4W
R710	RD43302829	R,CARBON 33K J 1/4W
R711	RD41002820	R,CARBON 10K J 1/4W
R712	RD48201821	R,CARBON 8.2K J 1/4W
R713	RD42201823	R,CARBON 2.2K J 1/4W
R714,715	RD42700827	R,CARBON 270 J 1/4W
R716	RD48201821	R,CARBON 8.2K J 1/4W
R717	RD44700820	R,CARBON 470 J 1/4W
R718	RD12209820	R,CARBON 22 J 1/4W
R719,720	RD42202827	R,CARBON 22K J 1/4W
R721	RD41003823	R,CARBON 100K J 1/4W
R722	RD42202827	R,CARBON 22K J 1/4W
R723	RD41003820	R,CARBON 100K J 1/4W
R724	RD12702822	R,CARBON 27K J 1/4W
R729	RN31003080	THICK FILM RS NETWORK 100Kx8
R753	RD42202827	R,CARBON 22K J 1/4W
R754	RD11803825	R,CARBON 180K J 1/4W
R755	RD41002820	R,CARBON 10K J 1/4W
C701,702	CC41512433	CAP,CERAMIC 15P 50V
C703	CE44706106	CAP,ELEC. 47uF 10V
C704	CE02204068	CAP,ELEC. 2200uF 6.3V Δ
C705,706	CC41009462	CAP,CERAMIC 0.01uF 50V
C707,708	CE01007504	CAP,ELEC. 1uF 50V
C709	CE44706106	CAP,ELEC. 47uF 10V
C710-713	CC41009462	CAP,CERAMIC 0.01uF 50V
C714	CE01338508	CAP,ELEC. 0.33uF 50V
C715	CM04709426	CAP,MYLAR 473 J 50V
C716	CC41009462	CAP,CERAMIC 0.01uF 50V
C717	CE01005167	CAP,ELEC. 100uF 16V
C718	CC45009456	CAP,CERAMIC 0.047uF 50V
C719	CE41005105	CAP,ELEC. 100uF 10V
C720	CE01005258	CAP,ELEC. 100uF 25V
C721	CC41009462	CAP,CERAMIC 0.01uF 50V
C722,723	CC45009456	CAP,CERAMIC 0.047uF 50V
D701-704	DD10000100	DIODE 1N4148
D705L	DD10000100	DIODE 1N4148
D706	DD20000065	DIODE RD-6.8E
IC701	IC00001346	IC TC-9157AP

SYMBOL	PARTS NO.	DESCRIPTION
IC702	IC00000482	IC TD-6104P
IC703	IC00000901	IC TC-9158P
FL701	DD40000915	FL TUBE FIP7P8C
D723	DD10000100	DIODE 1N4148
	IF-801331	PCB ASSEMBLY
R229	RD23902827	R,CARBON 39K J 1/4W
R230	RD21002825	R,CARBON 10K J 1/4W
R232	RD22201829	R,CARBON 2.2K J 1/4W
C231	CE03307254	CAP,ELEC. 3.3uF 25V
C232	CE01007504	CAP,ELEC. 1uF 50V
D207-211	DD40000095	LED LN224R
D212	DD40000101	LED LN324G
IC202	IC00000883	IC LB1423
	SA00000378	LED HOLDER C-3794
	AF-801511 R2	PCB ASSEMBLY
R301	RD26809826	R,CARBON 68 J 1/4W
R302	RD42002826	R,CARBON 20K J 1/4W
R303,304	RM11002710	R,METAL MR2510K 0.4W
R305	RD46801821	R,CARBON 6.8K J 1/4W
R306,307	RD42202827	R,CARBON 22K J 1/4W
R308,309	RM13002717	R,METAL MR2530K 0.4W
R310,311	RM13301710	R,METAL MR253K3 0.4W
R312,313	RM11002710	R,METAL MR2510K 0.4W
R314	RD12700825	R,CARBON 270 J 1/4W
R315	RD41003823	R,CARBON 100K J 1/4W
R316	RD44700820	R,CARBON 470 J 1/4W
R317	RD48202825	R,CARBON 82K J 1/4W
R318	RD41502827	R,CARBON 15K J 1/4W
R319	RD41803827	R,CARBON 180K J 1/4W
R320	RD55600828	R,CARBON 5609 J 1/4W
R321	RD41003823	R,CARBON 100K J 1/4W
R322	RD41002820	R,CARBON 10K J 1/4W
R323	RD43302829	R,CARBON 33K J 1/4W
R324,326	RD41002820	R,CARBON 10K J 1/4W
R325	RD41201827	R,CARBON 1.2K J 1/4W
R327,328	RD41503820	R,CARBON 150K J 1/4W
R329	RD42202827	R,CARBON 22K J 1/4W
R330	RD41003823	R,CARBON 100K J 1/4W
R331	RD41002820	R,CARBON 10K J 1/4W
R332	RD44702827	R,CARBON 47K J 1/4W
C301	CE04705164	CAP,ELEC. 470uF 16V
C302	CL31005163	CAP,LOW NOISE U16V100LN
C303	CL32206164	CAP,LOW NOISE U16V22LN
C304	CS44710426	CAP,STYROL 4700P J 50V
C305	CE04705164	CAP,ELEC. 470uF 16V
C306	CS44710426	CAP,STYROL 4700P K 50V
C307,308	CS31510429	CAP,STYROL SRA152J50
C309,310	CS48211430	CAP,STYROL 820P 50V
C311,312	CL34707259	CAP,LOW NOISE U25V4R7LN
C313	CM14709435	CAP,MYLAR 473 K 50V
C314	CE01008508	CAP,ELEC. 0.1uF 50V
C315	CE41006250	CAP,ELEC. 10uF 25V
C316	CE04708505	CAP,ELEC. 0.47uF 50V
C317	CE04707252	CAP,ELEC. 4.7uF 25V
C318	CS42710435	CAP,STYROL 2700P 50V
C319	CS43911424	CAP,STYROL 390P 50V
C320	CS48211430	CAP,STYROL 820P 50V
C321	CM14709435	CAP,MYLAR 473 K 50V
C322	CE43307253	CAP,ELEC. 3.3uF 25V
D301	DD80000021	DIODE 1N4148
Q301-303	TR30000327	TRANSISTOR 2SC536
IC301	IC00001905	IC uPC1223C
IC302	IC00000603	IC TA7324P
L301	LM00000360	MICRO INDUCTOR TRL-312
L302	LC23400003	MPX FILTER COIL TRL-340
VR301	RV20000193	R,SEMI-FIXED 10K
VR302	RV20000284	R,SEMI-FIXED 30K
R401,402	RM11001716	R,METAL MR251K 0.4W

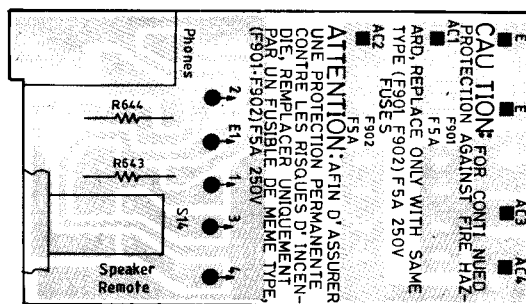
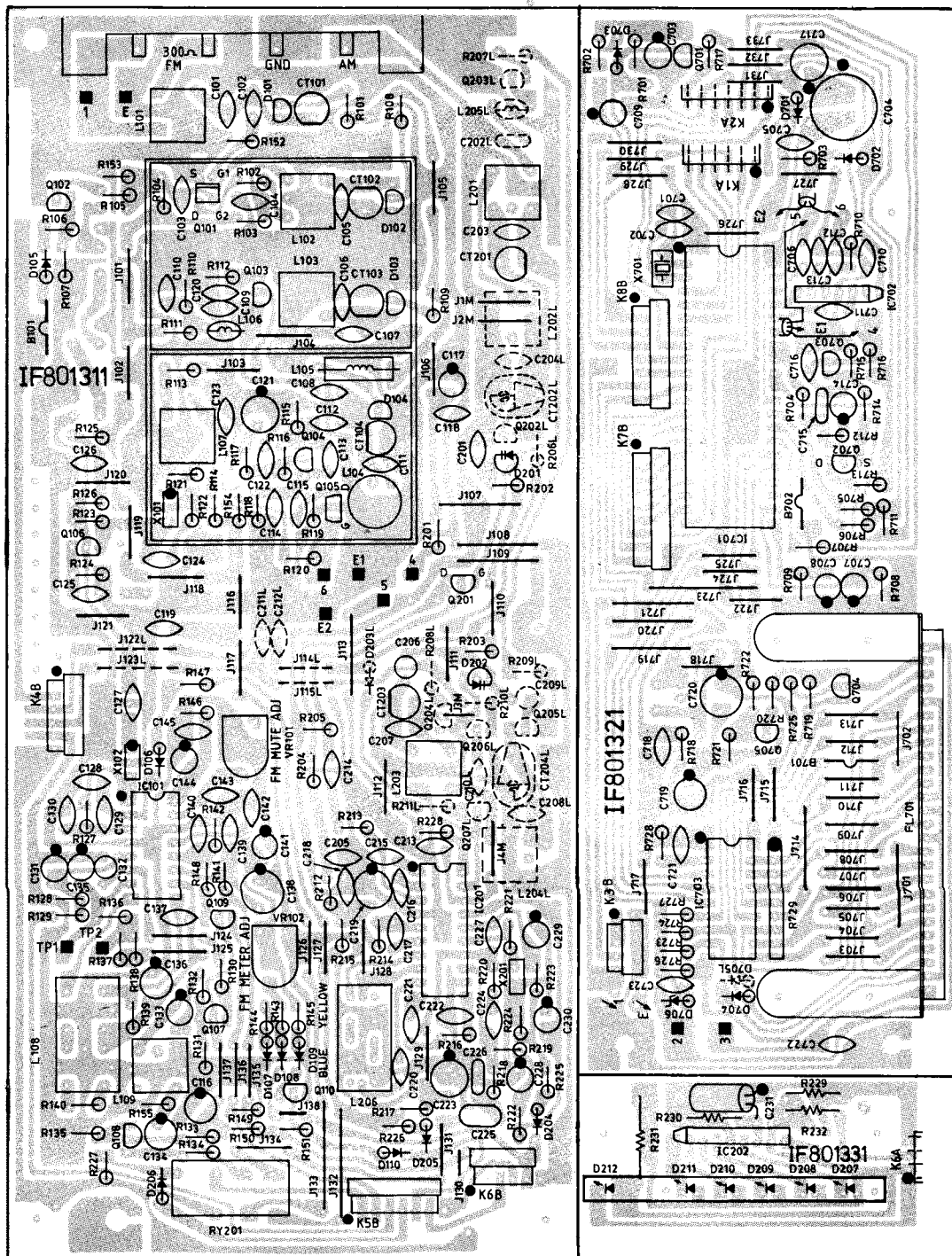
SYMBOL	PARTS NO.	DESCRIPTION
R403,404	RM14702715	R,METAL MR2547K 0.4W
R405,406	RM11201717	R,METAL MR251K2 0.4W
R407,408	RM14701711	R,METAL MR254K7 0.4W
R409,410	RM15602716	R,METAL MR2556K 0.4W
R411,412	RM19103718	R,METAL MR25910K 0.4W
R413,414	RM16800716	R,METAL MR25680R 0.4W
R415,416	RM11001716	R,METAL MR251K 0.4W
R417,418	RM11003713	R,METAL MR25100K 0.4W
C401,402	CS31511318	CAP,POLYSTYRENE 150P 160V
C403,404	CL08007060	CAP,LOE NOISE 8uF 6V
C405,406	CS41010417	CAP,STYROL 1000P 50V
C407,408	CS42011417	CAP,STYROL 200P 50V
C409,410	CS44310412	CAP,STYROL 4300P 50V
C411,412	CE51006507	CAP,ELEC. U50V 10RC2
C413,414	CP11008330	CAP,M.P. FILM 0.1uF 100V
C415,416	CE01005258	CAP,ELEC. 100uF 25V
IC401	IC00001693	IC NE5532AN
R501,502	RM31001814	R,METAL 1K F 1/4W
R503,504	RM14700718	R,METAL MR25470R 0.4W
R505,506	RM14702715	R,METAL MR2547K 0.4W
R507,508	RM31001814	R,METAL 1K F 1/4W
R509,510	RM31802811	R,METAL 17.8K F 1/4W
R511,512	RM14702715	R,METAL MR2547K 0.4W
R513,514	RM13302713	R,METAL MR2533K 0.4W
R515,516	RM12202714	R,METAL MR2522K 0.4W
C501,502	CE51006507	CAP,ELEC. U50V10RC2
C503,504	CS34712311	CAP,POLYSTYRENE 47P 160V
C505,506	CE51006507	CAP,ELEC. U50V10RC2
C507,508	CE51005254	CAP,ELEC. SIE101M
VR502	RV10001206	R,VARIABLE 4TR-2492 100KWN
S15	SH11000185	1 KEY PUSH SW 4TR-1967
S16-S21	SH16000151	6 KEY PUSH SW 4TR-2629A
S22,S23	SH12000351	2 KEY PUSH SW 4TR-2501
R601,602	RM11801710	R,METAL MR251K8 0.4W
R603,604	RM14702715	R,METAL MR2547K 0.4W
R605,606	RM31501811	R,METAL 1.5K F 1/4W
R607,608	RM34750818	R,METAL 475 F 1/4W
R609,610	RM36811811	R,METAL 6.81K F 1/4W
R611,612	RM14700718	R,METAL MR25470R 0.4W
R613,614	RM18201710	R,METAL MR258K2 0.4W
R615,616	RM34759810	R,METAL 47.5 F 1/4W
R617,618	RM31002818	R,METAL 10K F 1/4W
R619,620	RM31000810	R,METAL 100 F 1/4W
R621,622	RM38251810	R,METAL 8.25K F 1/4W
R623,624	RM32211813	R,METAL 2.21K F 1/4W
R625,626	RM33322813	R,METAL 33.2K F 1/4W
R627,628	RM32209818	R,METAL 22 F 1/4W
R629,630	RM32210810	R,METAL 221 F 1/4W
R633,636	RM10228226	R,METAL 0.22 J 2W
R637,638	RM33322813	R,METAL 33.2K F 1/4W
R639,640	RM10228226	R,METAL 0.22 J 2W
R641,642	RM11009120	R,METAL 10 J 1W
C601,602	CE51006507	CAP,ELEC. U50V10RC2
C603,604	CS31211300	CAP,POLYSTYRENE 120P 160V
C605,606	CE51005904	CAP,ELEC. U6.3V100RC2
C607,608	CS43911424	CAP,STYROL 390P 50V
C609,610	CC41511430	CAP,CERAMIC 150P 50V
C611,612	CC41009462	CAP,CERAMIC 0.01uF 50V
C613,614	CM11008434	CAP,MYKAR 104 K 50V
D601-604	DD10000100	DIODE 1N4148
Q601,602	TR30000327	TRANSISTOR 2SC536
Q603-608	TR10000023	TRANSISTOR 2SA1016
Q609,610	TR30000169	TRANSISTOR 2SC1941
Q611,612	TR10000023	TRANSISTOR 2SA1016
Q613,614	TR10000047	TRANSISTOR 2SB631K
Q615,616	TR40000069	TRANSISTOR 2SD600K
Q619,620	TR10000047	TRANSISTOR 2SB631K
Q621,622	TR40000045	TRANSISTOR 2SD1047 Δ
Q623,624	TR20000040	TRANSISTOR 2SB817 Δ
F601,602	FU12000045	FUSE 250V 4A UL/CSA Δ
	FU21000071	FUSE MINI 4A Δ
	FU23000049	FUSE 4A S Δ

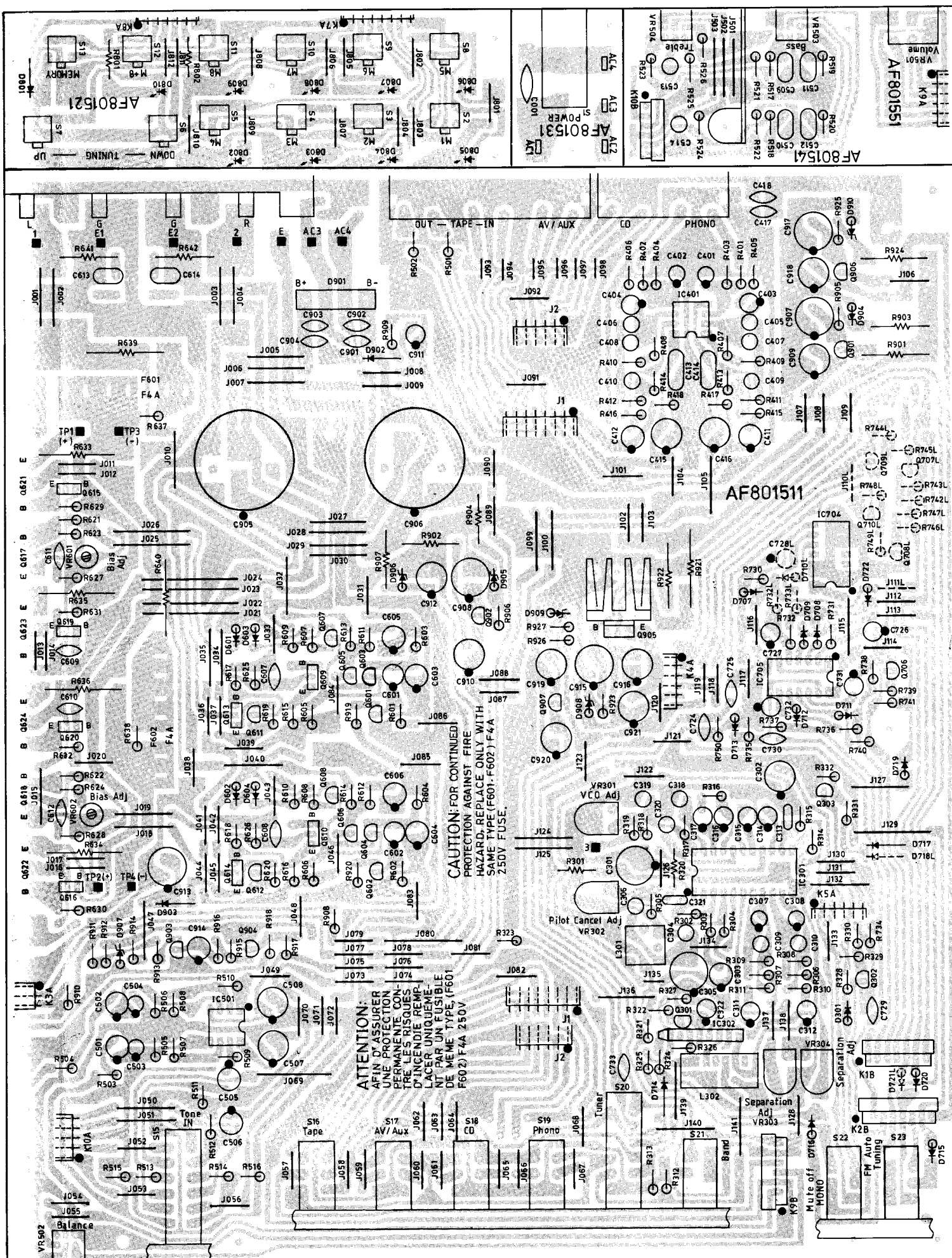
SYMBOL	PARTS NO.	DESCRIPTION
VR601,602	RV40000022	R,SEMI-FIXED 2.2K
R730	RD44703820	R,CARBON 470K J 1/4W
R731,732	RD41003823	R,CARBON 100K J 1/4W
R732L,733L	RD41003820	R,CARBON 100K J 1/4W
R734	RD44702827	R,CARBON 47K J 1/4W
R735	RD44703820	R,CARBON 470K J 1/4W
R736-738	RD41003823	R,CARBON 100K J 1/4W
R739	RD44702827	R,CARBON 47K J 1/4W
R740	RD41003823	R,CARBON 100K J 1/4W
R741	RD41002820	R,CARBON 10K J 1/4W
R742L	RD11003821	R,CARBON 100K J 1/4W
R743L,744L	RD14702825	R,CARBON 47K J 1/4W
R745L	RD11002828	R,CARBON 10K J 1/4W
R746	RD11003821	R,CARBON 100K J 1/4W
R747L,748L	RD44702827	R,CARBON 47K J 1/4W
R749L	RD11002828	R,CARBON 10K J 1/4W
R750	RD44702827	R,CARBON 47K J 1/4W
R751L,752L	RD11003821	R,CARBON 100K J 1/4W
C724	CC41010439	CAP,CERAMIC 0.001uF 50V
C725	CM14709423	CAP,MYLSR 473 J 50V
C726,727	CE41007503	CAP,ELEC. 1uF 50V
C728L	CE41007503	CAP,ELEC. 1uF 50V
C729	CC41010439	CAP,CERAMIC 0.001uF 50V
C730	CM14709423	CAP,MYLAR 473 J 50V
C731,732	CE42207500	CAP,ELEC. 2.2uF 50V
C733	CC41010439	CAP,CERAMIC 0.01uF 50V
C734	CE44708251	CAP,ELEC. 4.7uF 25V
D707-709	DD10000100	DIODE 1N4148
D710L	DD10000100	DIODE 1N4148
D711-717	DD10000100	DIODE 1N4148
D718L,721L	DD10000100	DIODE 1N4148
D719,722	DD10000100	DIODE 1N4148
IC704L	IC00001188	IC LC4081B
IC705	IC00001188	IC LC4081B
Q706	TR30000327	TRANSISTOR 2SC536
Q707L,708L	TR30000327	TRANSISTOR 2SC536
Q709L,710L	TR10000126	TRANSISTOR 2SA608K
R901,902	RM12200122	R,METAL 220 J 1W
R903,904	RM12701925	R,METAL 2.7K 1/2W
R905,906	RD43300821	R,CARBON 330 J 1/4W
R907	RD11501129	R,CARBON 1.5K J 1W
R908	RD44709822	R,CARBON 47 J 1/4W
R909	RD41801820	R,CARBON 1.8K J 1/4W
R911	RD42202827	R,CARBON 22K J 1/4W
R912	RD41003823	R,CARBON 100K J 1/4W
R913	RD41002820	R,CARBON 10K J 1/4W
R914	RD42701820	R,CARBON 2.7K J 1/4W
R915	RD43302829	R,CARBON 33K J 1/4W
R916	RD41002820	R,CARBON 10K J 1/4W
R917	RD12203829	R,CARBON 220K J 1/4W
R918	RD44702827	R,CARBON 47K J 1/4W
R919,920	RD41002820	R,CARBON 10K J 1/4W
R921	RM13909220	R,METAL 39 2W
R922	RM12701925	R,METAL 2.7K 1/2W
R923	RD41001826	R,CARBON 1K J 1/4W
R924	RD13901128	R,CARBON 3.9K J 1W
R925	RD43300821	R,CARBON 330 J 1/4W
R926	RD41201827	R,CARBON 1.2K J 1/4W
R927	RD43300821	R,CARBON 330 J 1/4W
C901-904	CC01009256	CAP,CERAMIC 0.01uF 250V
C905,906	CE56804451	CAP,ELEC. 50LPSS6800M
C907,908	CE04705255	CAP,ELEC. 470uF 25V
C909,910	CE01005258	CAP,ELEC. 100uF 25V
C911	CE41006250	CAP,ELEC. 10uF 25V
C912	CE01005258	CAP,ELEC. 100uF 25V
C914	CE03306250	CAP,ELEC. 33uF 25V
C915	CE04705255	CAP,ELEC. 470uF 25V
C916	CE02205164	CAP,ELEC. 220uF 16V
C917	CE02205504	CAP,ELEC. 220uF 25V
C918	CE01005258	CAP,ELEC. 100uF 25V
C919,920	CE02205103	CAP,ELEC. 220uF 10V

SYMBOL	PARTS NO.	DESCRIPTION
C921	CE02205164	CAP,ELEC. 220uF 16V
D901	DD10000020	DIODE KBL02 Δ
D902,903	DD80000010	DIODE 1N4003
D904,907	DD20000028	DIODE RD-20E
D908,910	DD20000193	DIODE RD-15E
D909	DD20000181	DIODE RD-6.2E
Q901	TR30000121	TRANSISTOR 2SC2274
Q902	TR10000140	TRANSISTOR 2SA984K
Q903,906	TR30000327	TRANSISTOR 2SC536
Q904	TR10000126	TRANSISTOR 2SA608K
Q905	TR30000029	TRANSISTOR 2SD313
Q907	TR30000121	TRANSISTOR 2SC2274
	TP20000286	4P SPEAKER TERMINAL 4TR-2267#2
	AH20000552	HEAT SINKER 4TR-2478#2
	JP04000126	4P PIN JACK 4TR-2167#3
	JP06000105	6P PIN JACK 4TR-2488#1
	AF801521	PCB ASSEMBLY
R801	RD23300827	R,CARBON 330 J 1/4W
R802	RD22700822	R,CARBON 270 J 1/4W
D801	DD10000100	DIODE 1N4148
D802-810	DD40000757	L.E.D LTL-2201 3F RED
S2-S13	SH60000070	KEY BOARD SW C-4004T
	AF801531	PCB ASSEMBLY
S1	SH40000120	POWER SW C-3600B-T Δ
C001	CK00000060	SPARK KILLER DE7100 FZ472P (U,C,A) Δ
	CK00000035	SPARK KILLER DE7150 F472M Δ
	AF801541	PCB ASSEMBLY
R517,518	RD31002818	R,CARBON 10K J 1/4W
R519,520	RM38251810	R,METAL 8.25K F 1/4W
R521,522	RM31802811	R,METAL 17.8K F 1/4W
R523,524	RM31502815	R,METAL 15K F 1/4W
R525,526	RM32701816	R,METAL 2.7K F 1/4W
C509,512	CM01008423	CAP,MYLAR 104 J 50V
C513,514	CS41010429	CAP,STYROL 1000P 50V
VR503,504	RV10001190	R,VARIABLE 4TR-2491 20KBx2
	SP10005423	P.C.B SUPPORT 4TTU-12
	AF801551	PCB ASSEMBLY
VR501	RV10001474	R,VARIABLE 4TR-2689 50KAx2
	TX801111	PCB ASSEMBLY
R643,644	RM13300121	R,METAL 330 1W
S14	SH11000148	1 KEY PUSH SW 4TR-1668
F901,902	FU12000100	FUSE 250V 5A UL/CSA (U,C,A)
	FU21000060	FUSE MINI 5A (H,E1,3,6) Δ
	FU23000074	FUSE 250V 5A S Δ

PARTS NO.	DESCRIPTION
	OTHERS
AB00000341	BOTTOM BOARD 3TTH-10A#2
AF10000225	FRONT CHASSIS 2TTU-2
AM00001574	CHASSIS BODY 2TTU-3
AS01000221	SIDE CHASSIS 3TTH-8A
DD40000095	L.E.D LN224R
PT25307102	POWER TRANSFORMER TT-253GF Δ
FT00000138	RUBBER FOOT 4TR-2274 40Fx8
CD00000218	AC CORD SPT-2 AWG#18 4TR-670#4 (U,C) Δ
CD00000097	AC CORD SPT-2 AWG#18 4TR-670#2 (H1,2,3,4) Δ
CD00000048	AC POWER CORD 4TR-1037 (H5,6,E,K2) Δ
CD00000085	AC POWER CORD C-2504A (K1) Δ
CD00000115	AC POWER CORD C-3763-T (G) Δ
CD00000267	AC CORD SPT-2 AWG#16 C-2743 (A) Δ
SC00000131	AC CORD STOPPER SR-5N-4 (A,K1)
SC00000027	AC CORD STOPPER SR-4N-4
VC00000048	VOLTAGE SELECTOR C-4304A01 (U,H1,2,4,5,6,E1) Δ
AR10000550	PRINTED REAR CHASSIS TRP-469
LB07168000	AM LOOP ANT. TRL-345
TP20000286	4P SPEAKER TERMINAL 4TR-2267#2
AH20000540	HEAT SINKER BOARD 4TTH-11#2
AW00000411	PANEL WINDOW 4TTU-8
KB20002000	PUSH BUTTON 4TTL-13 19.5x11.5
KB20002012	BUTTON CAP (A) 4TTL-11 39.5x11.5
KB20002024	BUTTON CAP (B) 19.5x11.5
OM10000085	ORNAMENTAL SIDE PLATE 3TTF-6
OM10000346	FUNCTION PVC PLATE 4TTU-9#1
OM10000358	FUNCTION PVC PLATE 4TTL-9#2
OM10000360	FUNCTION PVC PLATE 4TTU-10#1
OM70000065	PUSH BUTTON CONNECTOR 4TTL-15
AA10000935	FRONT PANEL 2TTU-1#1 (RX-850A)
AA10000947	FRONT PANEL 2TTU-1#2 (RX-850AL)
AD00000567	FL DIAL BOARD 4TTU-7
AU00000828	UPPER COVER 3TTF-5#3
KB10001310	KNOB 4TR-2254 33F GREY
KB10001345	KNOB C-3187#5-T 13F
KB20000994	PUSH BUTTON 4TR-2010 5x5
KB20001561	PUSH BUTTON 4TR-2176 14x14
KB20002140	PUSH BUTTON 4TR-1515A#0 5x14
PL00000770	STYROL SIDE MOULDING 2TTF-9A TZ-165
TN10002806	INSIDE CARTON 4TR-2377#4

Printed Circuit Boards



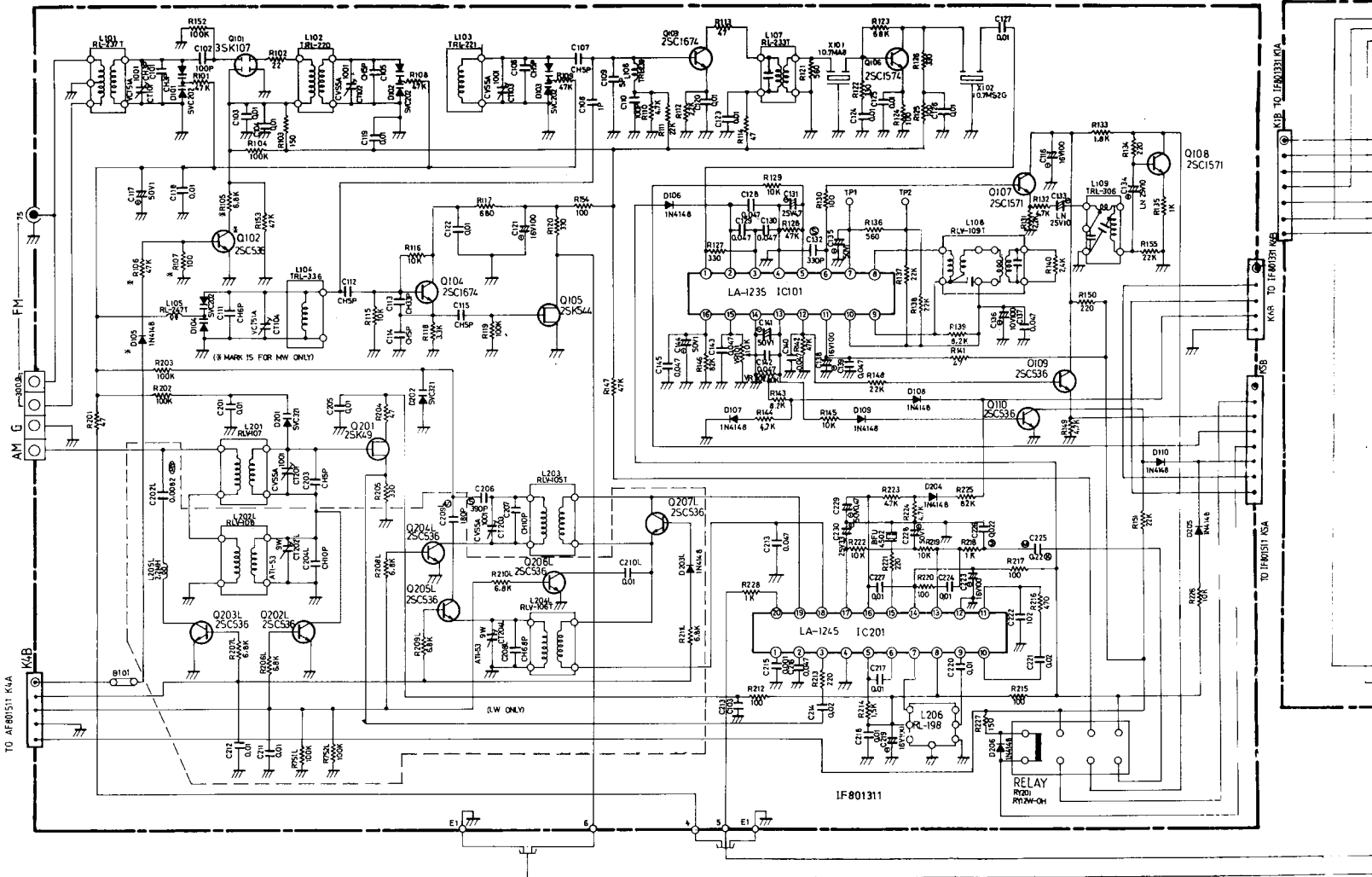


Schematic Diagram

SCHEMATIC DIAGRAM

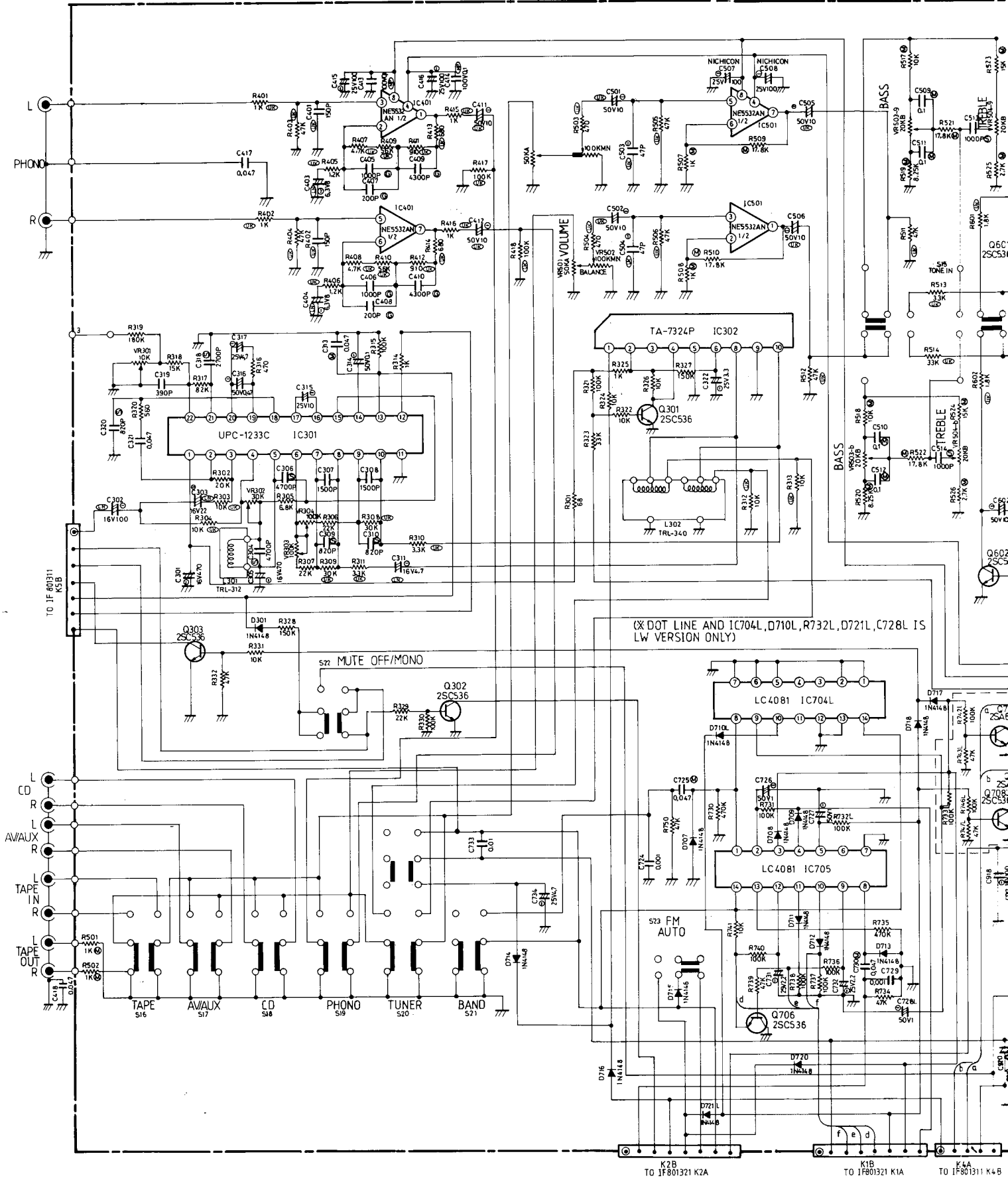
RX-850A/AL(1/2)

NOTE PARTS AND CIRCUIT SUBJECT TO CHANGES FOR IMPROVEMENTS WITHOUT PRIOR NOTICE.



SCHEMATIC DIAGRAM RX-850A/AL(2/2)

NOTE: PARTS AND CIRCUIT SUBJECT TO CHANGES FOR IMPROVEMENTS WITHOUT PRIOR NOTICE.



Wiring Diagram

