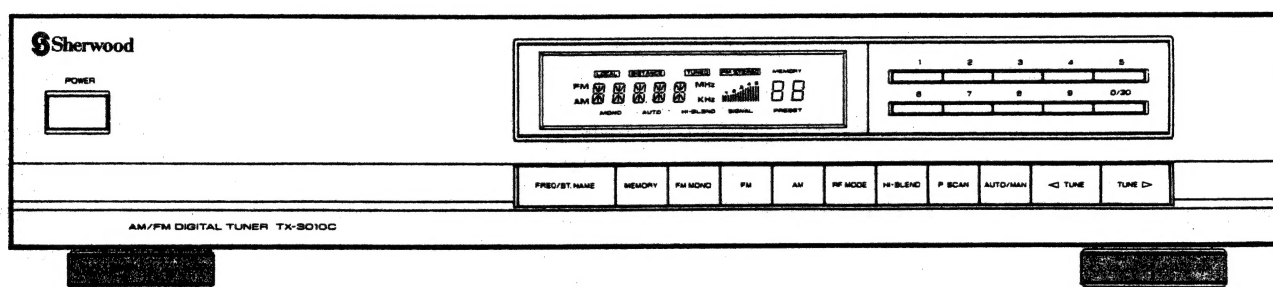


SERVICE MANUAL

TX-3010C

AM/FM
STEREO DIGITAL TUNER



■ CONTENTS

Safety Precaution	2	Wiring Diagram	15
Specifications	3	Exploded View (Cabinet & Chassis)	17
Block Diagram	5	Electrical Parts List	19
Circuit Description	7	Mechanical Parts List	22
Alignment Procedures	8	Schematic Diagram (I)	
P.C. Boards (Top & Bottom Views)	12	Schematic Diagram (II)	Separate Sheet

 **Sherwood**

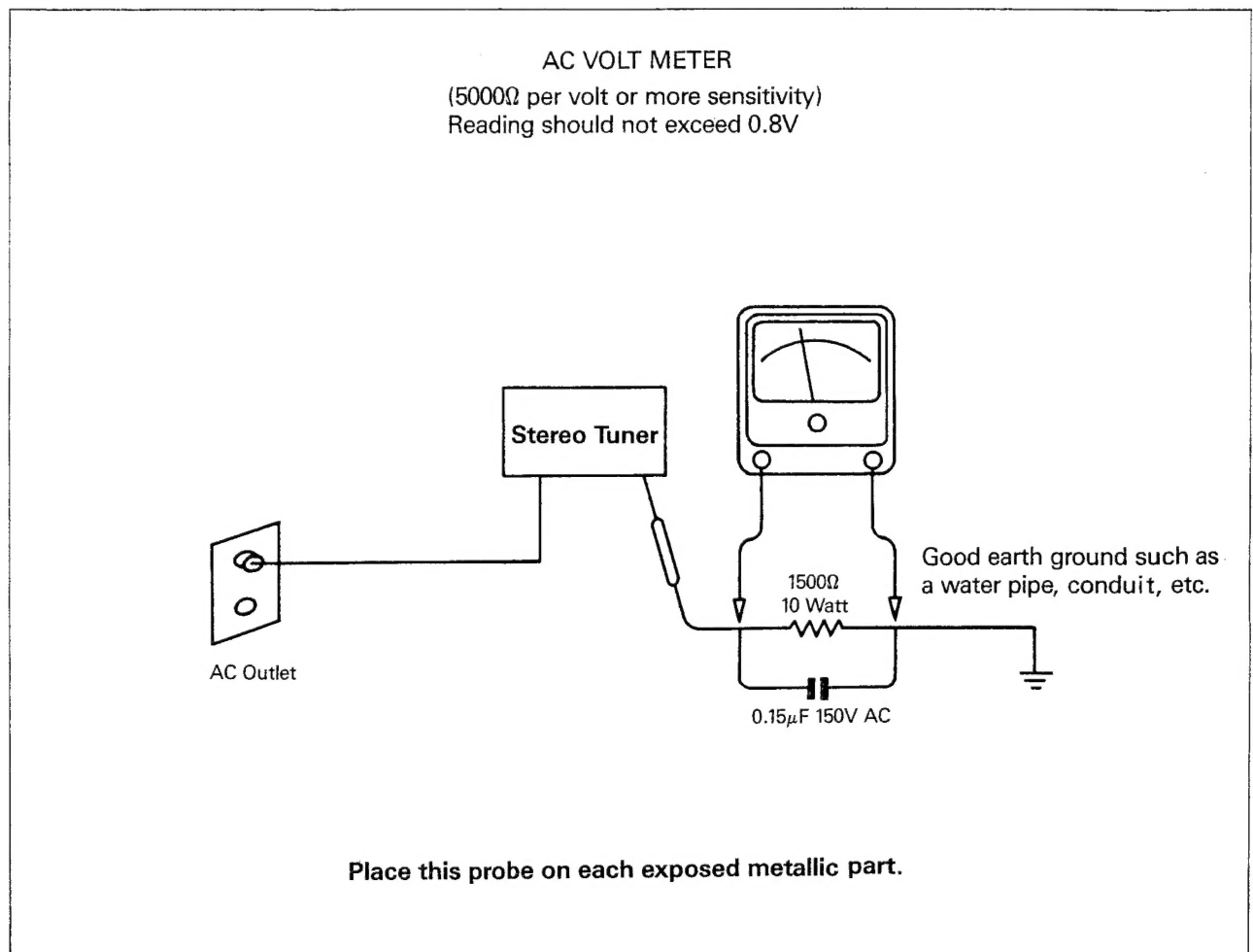
Safety Precaution

WARNING

Service should not be attempted by anyone unfamiliar with the necessary precautions on this player. The following precautions are necessary during servicing.

1. Many electrical and mechanical parts in this player have special characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristic are identified in this manual and its supplements: electrical components having such features are identified by a ⚠ in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire or other hazards.
2. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as

terminals, screwheads, metal overlays, etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into, a 120V AC outlet (**120V Version only**). (Do not use a line isolation transformer during this check.) Use an AC voltmeter having 5000Ω per volt or more sensitivity in the following manner: 0.15μF, 150V AC capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500Ω resistor and 0.15μF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic parts. Voltage measured must not exceed 0.3volts RMS. This corresponds to 0.2mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



Specifications

FM Section

Tuning Range

Scanning Frequency Interval (Auto/Manual);

USA/Canada version 87.50-107.90MHz/200kHz

Europe/Australia version 87.50-108.00MHz/50kHz

Usable Sensitivity

IHF at S+N+D/N=30dB

75 ohm (75kHz dev.) 1.5μV

DIN at S+N+D/N=26dB

75 ohm (40kHz dev.) 1.5μV

Quieting Sensitivity at 98MHz

IHF at 75kHz dev. Mono 5μV

Stereo 30μV

DIN at 40kHz dev. Mono 7μV

Stereo 50μV

THD at 1kHz;

IHF at 75kHz mod. Mono 0.2%

(40kHz for DIN) Stereo 0.4%

Stereo Separation at 1kHz 45dB

Signal to Noise ratio

IHF at 75 kHz mod. Mono 75dB

Stereo 72dB

Frequency Response 20Hz-15kHz +0.5/-1dB

Audio Output voltage at 1kHz, 100% mod. 600mV ± 150mV

De-emphasis;

USA/Canada version 75μsec

Europe/Australia version 50μsec

Capture Ratio 2dB

Alternate channel selectivity 70dB

Image Rejection 80dB

IF Rejection 100dB

AM Rejection 50dB

Muting Level 10μV

AM (MW/LW) Section

Tuning Range;

MW USA/Canada version 520-1710kHz

Australia/Europe version 522-1611kHz

LW Europe version 153-279 kHz

Scanning Frequency Interval (Auto/Manual)

USA/Canada version 10kHz

Australia/Europe version 9kHz

Usable Sensitivity IHF

at 20dB S/N Loop Antenna

MW 500μV/m

LW 700μV/m

Signal to Noise ratio 30% mod. ref.

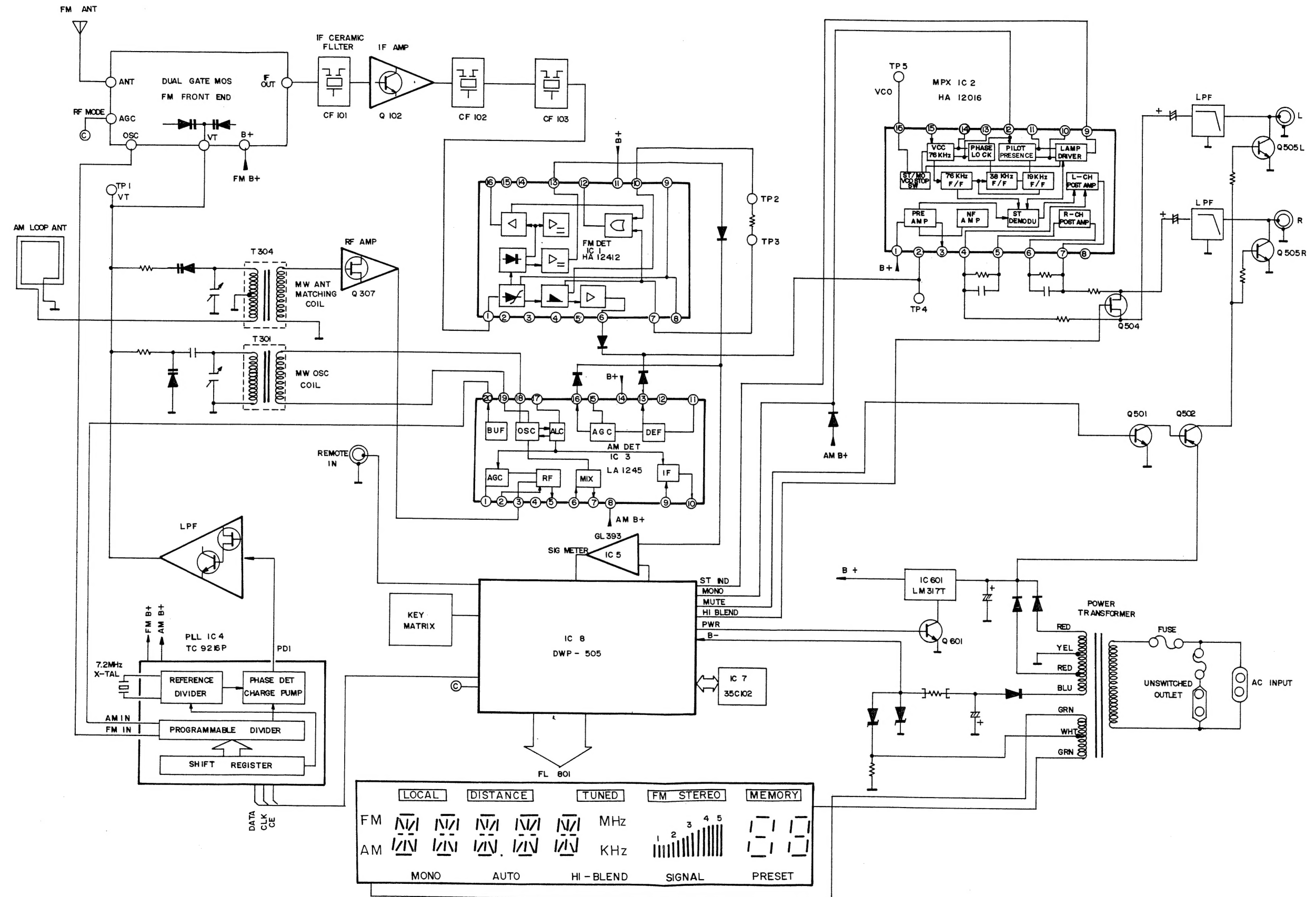
MW 45dB

LW 40dB

Audio Output voltage at 400Hz 30% mod.....	150mV
Power Consumption	10W
Power Requirement;	
A: 120V 60Hz for USA & Canadian version	
B: 120/220V 60/50Hz for multi-voltage version	
C: 230V 50Hz for general European version	
D: 230V 50Hz for German & Italian version	
E: 240V 50Hz for British & Australian version	
F: 230V 50Hz for Swiss & Scandinavian version	
Dimensions.....	440(W)×80(H)×245(D) mm 17.3(W)×3.1(H)×9.6(D)inch
Weight(net)	3.1kg (6lbs, 13oz)

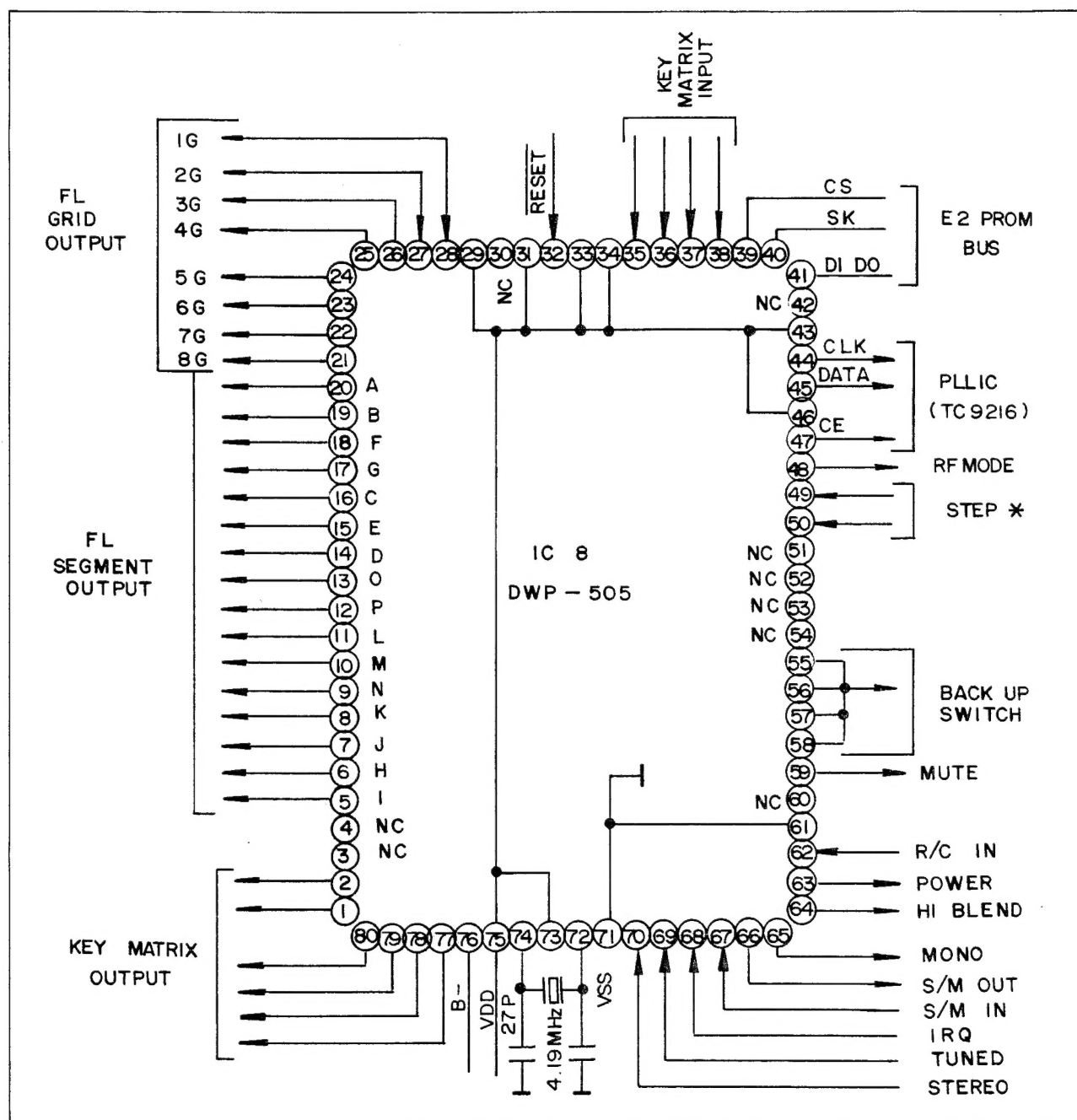
Note: Specifications and design subject to change without notice for improvements. Component and circutry are subject to modification to insure best operation under differing local conditions. This manual is based on the European standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

Block Diagram



Circuit Description

Pin Assignment (IC8)



Step (Band) Selector

PIN NO.	P50	P49
EUROPE (3)	1	0
EUROPE (2)	0	1
U.S.A	0	0
KOREA	1	1

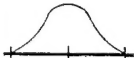
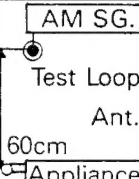
Alignment Procedures

* Before making adjustment, operate the appliance for more than 2 minutes.

* Note: 1.0 dB=1 μ 2. FM 100% Mod.=75kHz Dev. 3. DVM=Digital Volt Meter
4. SG=Signal Generator 5. SSG=Stereo Signal Generator

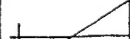
1. MW Adjustment

- Selector SW. _____ Tuner, MW/AM
- In case of 2 band appliance (AM/FM), MW is converted into AM.

No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		From	To					
1.	Tuning Voltage	520kHz		*1) 520kHz	Connect DVM to TP1	T301	DC $1.2 \pm 0.2V$	
		1710kHz		*2) 1710kHz		TC301	DC $8.6 \pm 0.2V$	
		• Repeat the step *1) and *2) until DVM reads the tuning voltage mentioned above. • In case the freq. is 9kHz, the freq. of AM SG and sppliance should be changed to *1) 522kHz *2) 1611kHz						
2.	IF	AM IF Genescope	ANT.		Connect IF Genescope	T305	Symmetrical curve on AM IF Genescope	
3.	RF Tuning	*1) AM SG 600kHz, 74dB 400Hz (30% mod.)	ANT.	600kHz	Output Connect AC Voltmeter & Oscilloscope	T304	Maximize audio output	AM SG. Test Loop Ant. 60cm Appliance 
		*2) AM SG 1400kHz, 74dB 400Hz (30% mod.)	ANT.	1400kHz		TC304		
		• Feed Signal should be fed to Loop ant. through the TEST Loop ant., 60cm distant from the appliance. • Repeat the steop *1) and *2) until no further improvement occurs. • In case the freq. is 9kHz, the freq. of AM SG and appliance should be changed to *1) 603kHz and *2) 1404kHz.						
4.	Tuned Level	AM SG 1000kHz, 80dB 400Hz (30% mod.)	ANT.	1000kHz	Output Connect Oscilloscope	VR301	TUNED Light on	in FIP
• In case the freq. steop is 9kHz, the freq. of AM SG and appliance should be changed to 999kHz.								

2. LW Adjustment

- Selector SW. _____ Tuner, MW/AM
- This adjustment is necessary to 3 band (MW/LW/FM).

No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		From	To					
1.	Tuning Voltage	153kHz	279kHz	*1) 153kHz	Connect DVM to TP1	T302L	DC $2 \pm 0.2V$	
				*2) 279kHz		TC302L	DC $5.5 \pm 0.2V$	
				• Repeat the step *1) and *2) until DVM reads the tuning voltage mentioned above.				

No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		From	To					
2.	RF Tuning	*1) AM SG 162kHz, 80dB 400Hz (30% mod.)	ANT.	162kHz	Output Connect AC Voltmeter & Oscilloscope	T303L	Maximize audio output	
		*2) AM SG 252kHz, 80dB 400Hz (30% mod.)		252kHz		TC303L		
		• Feed Signal should be fed to Loop ant. through the Test Loop ant., 60cm distant from the appliance. • Repeat the step *1) and *2) until no further improvement occurs.						

3. FM Adjustment

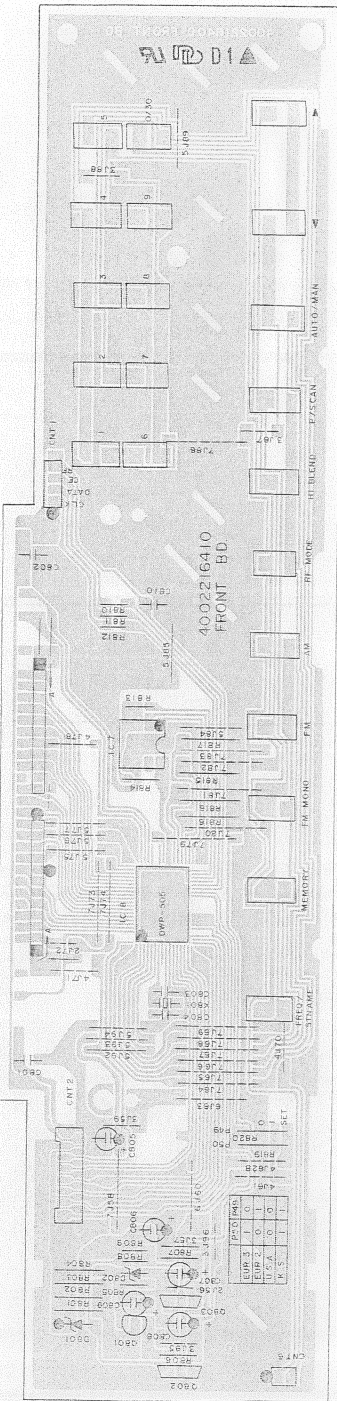
- Selector SW. _____ TUNER, FM (Mono/Stereo)
- Deviation _____ USA/Canada (75 kHz Dev.)
Europe (40 kHz Dev.)

No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		From	To					
1.	Tuning Voltage			87.50 MHz 107.90 MHz	Connect DVM	TP1	DC $2.0 \pm 0.2V$ DC $8.0 \pm 0.2V$	
2.	IF	FM IF Genescope	ANT.	98.10MHz 60dB	TP2 & TP3 Connect IF Genescope TP2 & TP3 Connect DVM	T201	Symmetrical S curve on FM IF Genescope DC $0 \pm 50mV$	
				Detune	Connect Oscilloscope TP2 and TP3 Connect DVM	T201	Maximize noise output DC $0 \pm 50mV$	In case IF Genescope is not available
3.	THD (Mono)	FM SG 98.10MHz, 60dB 1kHz (75kHz dev.)	ANT.	98.10MHz Mono	*1) Output Connect DVM *2) Output Connect AC Voltmeter & Distortion Analyzer	T201 T202	DC $0 \pm 0.05V$ Minimize distortion	TP 2 and TP3
• Adjust the step *1) 1st and the step *2) next and repeat until no further improvement occurs.								
4.	MPX (VCO)	FM SSG 98.10MHz, 60dB 1kHz (75kHz dev.) Pilot 19kHz (9% mod.)	ANT.	98.10MHz Stereo	TP5 Connect freq. Counter	VR502	Read 76kHz	
• Before adjustment, set the FM SSG to 'Mod. Off'.								

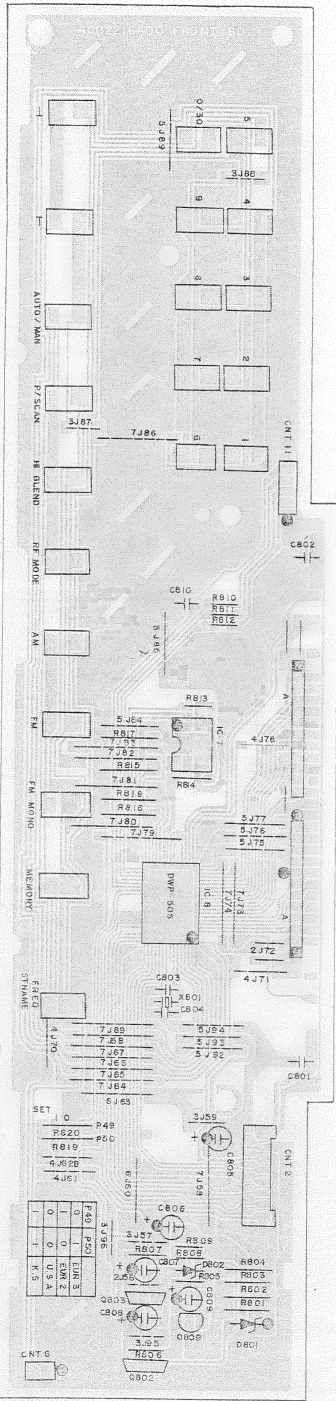
No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		Fron	To					
5.	THD (Stereo)	FM SSG 98.10MHz, 60dB 1kHz (75kHz dev.) Pilot 19kHz (9% Mod.)	ANT.	98.10MHz Stereo	Output connect AC voltmeter & distortion	Front- End IFT	Minimize distortion	
6.	Mute Level	FM SG 98.0MHz, 10 μ V 1kHz (75kHz dev.) (40kHz dev. for Europe)	ANT.	98.10MHz Stereo	Output connect Oscilloscope	VR201	Muting occurs marginally	
7.	Separation	*1) FM SSG 98.10MHz, 60dB 1kHz (75kHz, dev) Pilot 19kHz (9% mod) (L ch-> R ch)	ANT.	98.10MHz Stereo	R ch Mod connect AC voltmeter & distortion analyzer and oscilloscope	VR501	Minimize output	L ch Mode
		*2) Same as above R ch-> L ch			L ch Mod connect same as above		Minimize output	R ch Mode
		• Repeat the step *1) & *2) until no further improvement occurs.						
8.	Sig Level Adj	FM SSG 98.10MHz, 60dB 1kHz (75kHz dev) (40kHz dev for Europe)	ANT.	98.10MHz MONO	FL Display	VR202	Level Meter	Fully Lit

FRONT P.C. BOARD 4002216410

(TOP VIEW)

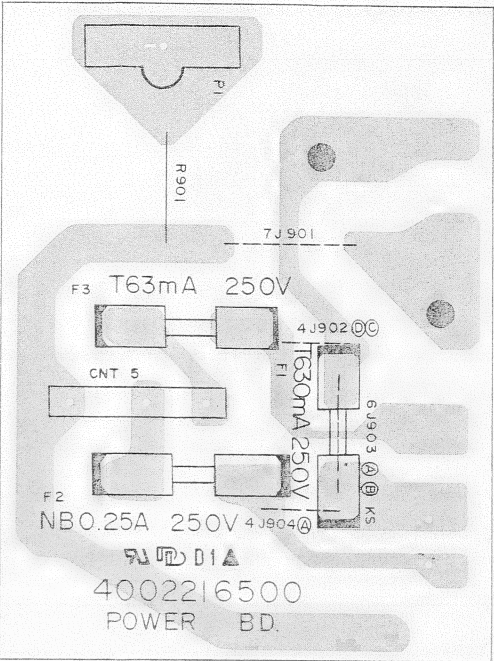


(BOTTOM VIEW)

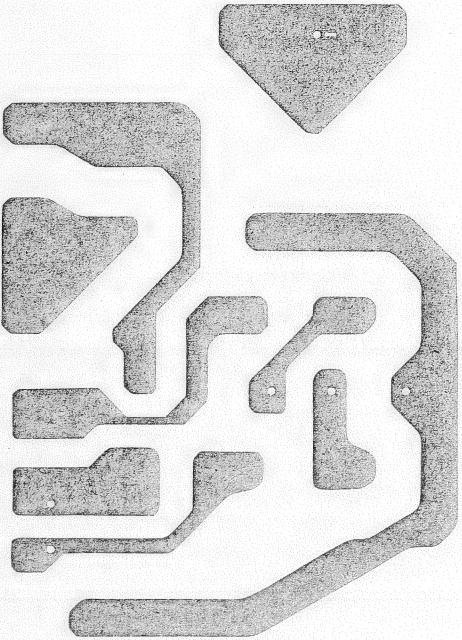


POWER P.C. BOARD 4002216500

(TOP VIEW)

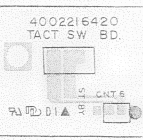


(BOTTOM VIEW)

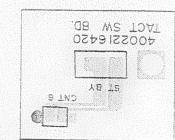


TACT SW P.C. BOARD 4002216420

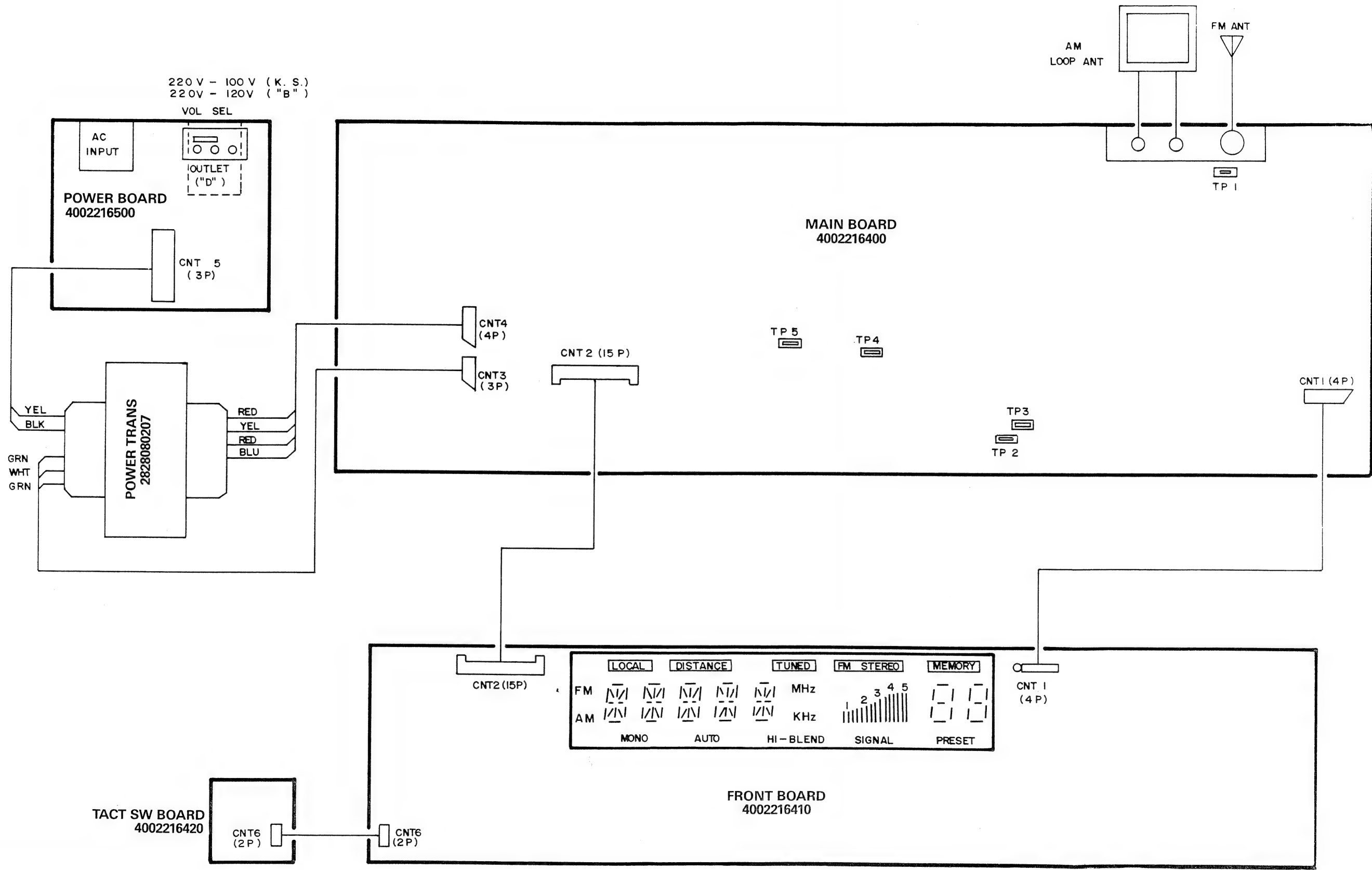
(TOP VIEW)



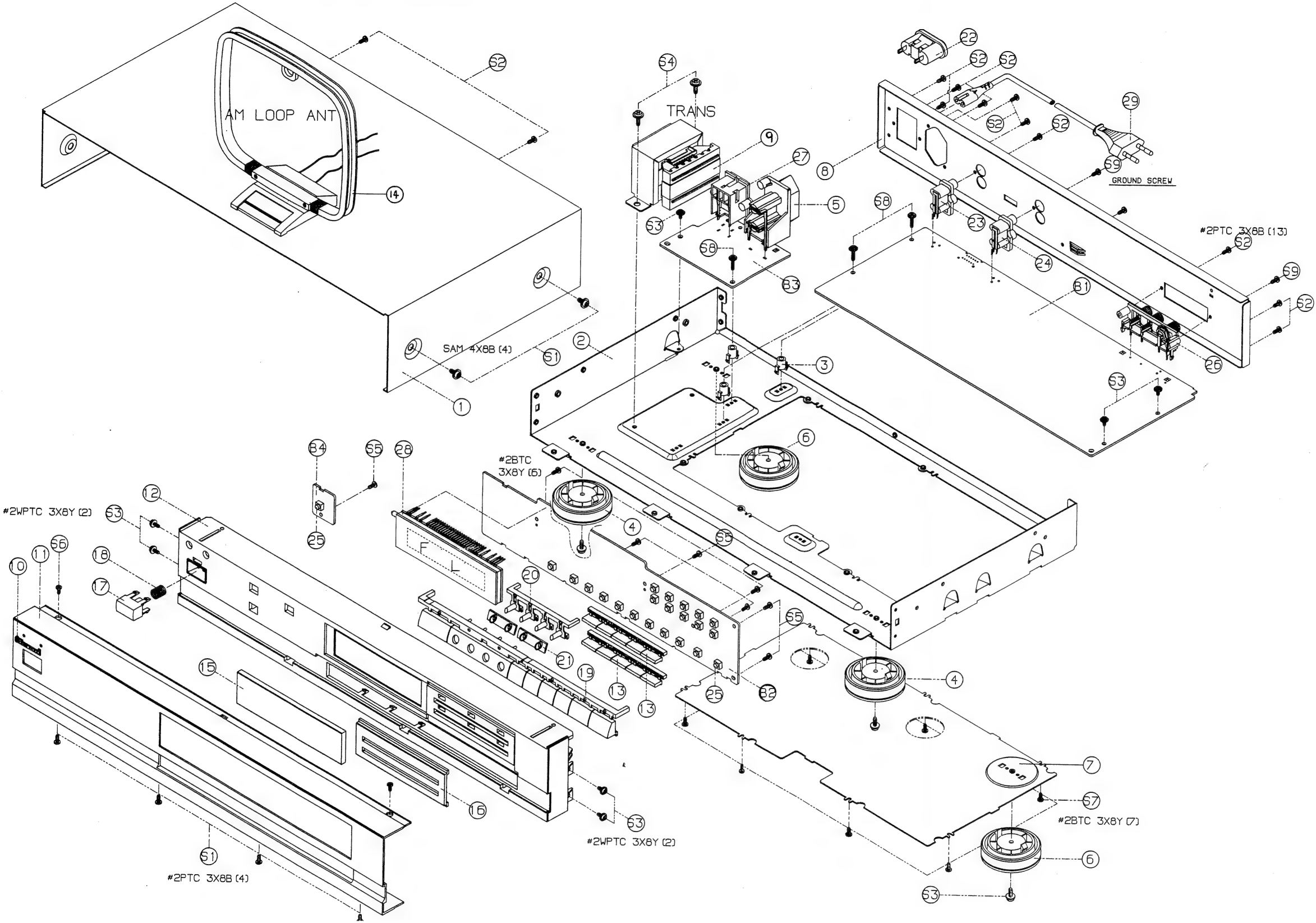
(BOTTOM VIEW)



Wiring Diagram



Exploded View (Cabinet & Chassis)



Electrical Parts List

PRODUCT SAFETY NOTICE: Products marked with $\triangle$ have special characteristics important to safety. If you replace any of these components, carefully read the product safety notice of this manual. Don't degraded the safety of the product through improper servicing. Remark meaning for version, refer to power requirement of Specifications in this manual. Resistors & Capacitors tolerance, D: ($\pm 5\%$), J: ($\pm 0.5\%$), K: ($\pm 10\%$), M: ($\pm 20\%$), Z: ($+80\%$, -20%).

Ref. No.	Part No.	Description	Remark
Main Board 4002216400			
Capacitors			
C101/C102	3519223520	Ceramic 0.022 μ F 25V Z	D
C103	3479310141	Electric SA 100 μ F 25V M	
C104/C105	3519223520	Ceramic 0.022 μ F 25V Z	
C106	3479322071	Electric SA 22 μ F 50V M	
C201-C203	3519223520	Ceramic 0.022 μ F 25V Z	
C204	3519331935	Ceramic 330pF 50V K	
C205/C206	3519101935	Ceramic 100pF 50V K	
C207	3519223520	Ceramic 0.022 μ F 25V Z	
C208	3479247871	Electric SA 0.47 μ F 50V M	
C209/C211	3479210971	Electric SA 1 μ F 50V M	
C210/C216	3519223520	Ceramic 0.022 μ F 25V Z	
C212-C214	3519223520	Ceramic 0.022 μ F 25V Z	
C215	3479210971	Electric SA 1 μ F 50V M	
C217	3479347041	Electric SA 47 μ F 25V M	
C301	3619471110	Poly 470pF 50V J	LW only
C302	3529180210	Ceramic CH 18pF 50V J	
C303L	3619181110	Poly 180pF 50V J	
C304L/C307L	3529100210	Ceramic CH 10pF 50V J	
C305L	3519223520	Ceramic 0.022 μ F 25V Z	
C306L	3579103130	Ceramic 0.01 μ F 50V J	
C308	3679104297	Mylar 0.1 μ F 63V K	
C309	3519223520	Ceramic 0.022 μ F 25V Z	
C310	3479322071	Electric SA 22 μ F 50V M	
C311-C316	3519223520	Ceramic 0.022 μ F 25V Z	
C317	3679473120	Mylar 0.047 μ F 100V J	
C318	3679333120	Ceramic 0.033 μ F 100V J	
C319	3519102935	Ceramic 0.001 μ F 50V K	
C320	3579103130	Ceramic 0.01 μ F 50V J	
C321/C323	3519223520	Ceramic 0.022 μ F 25V Z	
C322/C324	3479247971	Electric SA 4.7 μ F 50V M	
C325	3479233971	Electric SA 3.3 μ F 50V M	
C326/C328	3519223520	Ceramic 0.022 μ F 25V Z	
C327	3479347041	Electric SA 47 μ F 25V M	
C329	3519221935	Ceramic 220pF 50V K	
C401	3479222871	Electric SA 0.22 μ F 50V M	LW only
C402/C406	3519223520	Ceramic 0.022 μ F 25V Z	
C403	3479210971	Electric SA 1 μ F 50V M	
C404	3519221935	Ceramic 220pF 50V K	
C405	3579103130	Ceramic 0.01 μ F 50V J	
C407/C411	3479322071	Electric SA 22 μ F 50V M	
C408/C409	3529330210	Ceramic CH 33pF 50V J	
C410	3519223520	Ceramic 0.022 μ F 25V Z	
C412/C413	3519221935	Ceramic 220pF 50V K	
C501	3479222971	Electric SA 2.2 μ F 50V M	
C502	3619681110	Poly 680pF 50V J	
C503	3479310141	Electric SA 100 μ F 25V M	
C504L/R	3679102120	Mylar 0.001 μ F 100V J	
C505L/R	3479322071	Electric SA 22 μ F 50V M	

Ref. No.	Part No.	Description	Remark
C506	3519151935	Ceramic 150pF 50V K	LW only LW only
C507	3679153120	Mylar 0.015μF 100V J	
C508L/R	3679222120	Mylar 0.0022μF 100V J	
C509L/R	3479222971	Electric SA 2.2μF 50V M	
C510	3679473120	Mylar 0.047μF 100V J	
C511/C513	3479233971	Electric SA 3.3μF 50V M	
C512/C514	3479210971	Electric SA 1μF 50V M	
C515	3619102110	Poly 1000pF 50V J	
C601/C602	3609563120	Mylar 0.068μF 100V J	
C603	3409310249	Electric SA 1000μF 25V M	
C604	3479347071	Electric SA 47μF 50V M	
C605	3479247971	Electric SA 4.7μF 50V M	
C606	3479322071	Electric SA 22μF 50V M	
C607/C608	3519223520	Ceramic 0.022μF 25V Z	
C701	3479322071	Electric SA 22μF 50V M	
C702	3479210971	Electric SA 1μF 50V M	
C703	3479247871	Electric SA 0.47μF 50V M	
TC301	3838001000	Trimmer TZ03T110F	
TC302L	3838001010	Trimmer TZ03T200F	
TC303L	3838001010	Trimmer TZ03T200F	
TC304	3838001010	Trimmer TZ03T200F	
Connectors			
CNT1	4428505610	Plug 4P	
CNT2	4428526270	Plug 15P	
CNT3	4428505710	Plug 3P	
CNT4	4428505610	Plug 4P	
Coils			
T201	2838501110	FM DET A	D LW only LW only
T202	2838501120	FM DET B	
L201	2648601430	20.8mH	
L301	2638201150	MW OSC	
L302L	2638401060	LW OSC	
L303L	2608207352	MW ANT	
L304	2608201130	LW ANT	
L305	2848001110	AM IFT A	
L306	2848001070	AM IFT B	
L501L/R	2658001050	MPX 19kHz Black	
Diodes			
D201-D204	2058322101	1N4148	
D301	2058322101	1N4148	
D302L	2058322101	1N4148	
D303/D304	2058322101	1N4148	

Ref. No.	Part No.	Description	Remark	
D401	2258522110	MTZ 5.1B		
D501/D502	2058322101	1N4148		
D601-D603	2258106100	1N4002		
D604	2258522127	MTZ 27B		
D605	2258522112	MTZ 6.2B		
D606	2058322101	1N4148		
D607	2258522106	MTZ 3.3B		
D701	2058322101	1N4148		
VD301/VD302	2058819106	KV1236Z		MW only
VD301	2058819105	KV1235Z		MW+ LW on
VD302	2058819105	KV1235Z		MW+ LW on
Filters				
CF101-CF103	3908011011	SFE 10.7MS3G		
CF301	3908001010	SFP450H		
CF302	3908001020	BFU450C4N		
IC's				
IC1	2168411106	HA12412		
IC2	2168411105	HA12016		
IC3	2168417100	LA1245		
IC4	2168007205	TC9216P		
IC5	2168801100	GL393		
IC6	2168600112	LM317T		
Resistors: All Resistors are 1/5W carbon $\pm 5\%$ tolerance, unless otherwise specified. M is metal film, M.O is metal oxide and C is cement type.				
R101	3069472970	4.7k Ω		
R102	3069473970	47k Ω		
R103	3069104970	100k Ω		
R104	3069181970	180 Ω		
R105	3069561970	560 Ω		
R106-R108	3069221970	220 Ω		
R109	3069332970	3.3k Ω		
R110/R112	3069331970	330 Ω		
R111	3069561970	560 Ω		
R113	3069221970	220 Ω		
R201	3069331970	330 Ω		
R202	3069102970	1k Ω		
R203	3069183970	18k Ω		
R204	3069333970	33k Ω		
R205	3069332970	3.3k Ω		
R206	3069473970	47k Ω		
R207/R208	3069221970	220 Ω		
R209	3069472970	4.7k Ω		
R301L	3069104970	100k Ω	LW only	
R302L	3069155970	1.5M Ω		
R303L-R305L	3069473970	47k Ω		
R306L	3069104970	100k Ω		
R307L/R308L	3069473970	47k Ω		
R309L	3069104970	100k Ω		
R310L	3069104970	100k Ω		
R311L	3069473970	47k Ω		
R312	3069820970	82 Ω		

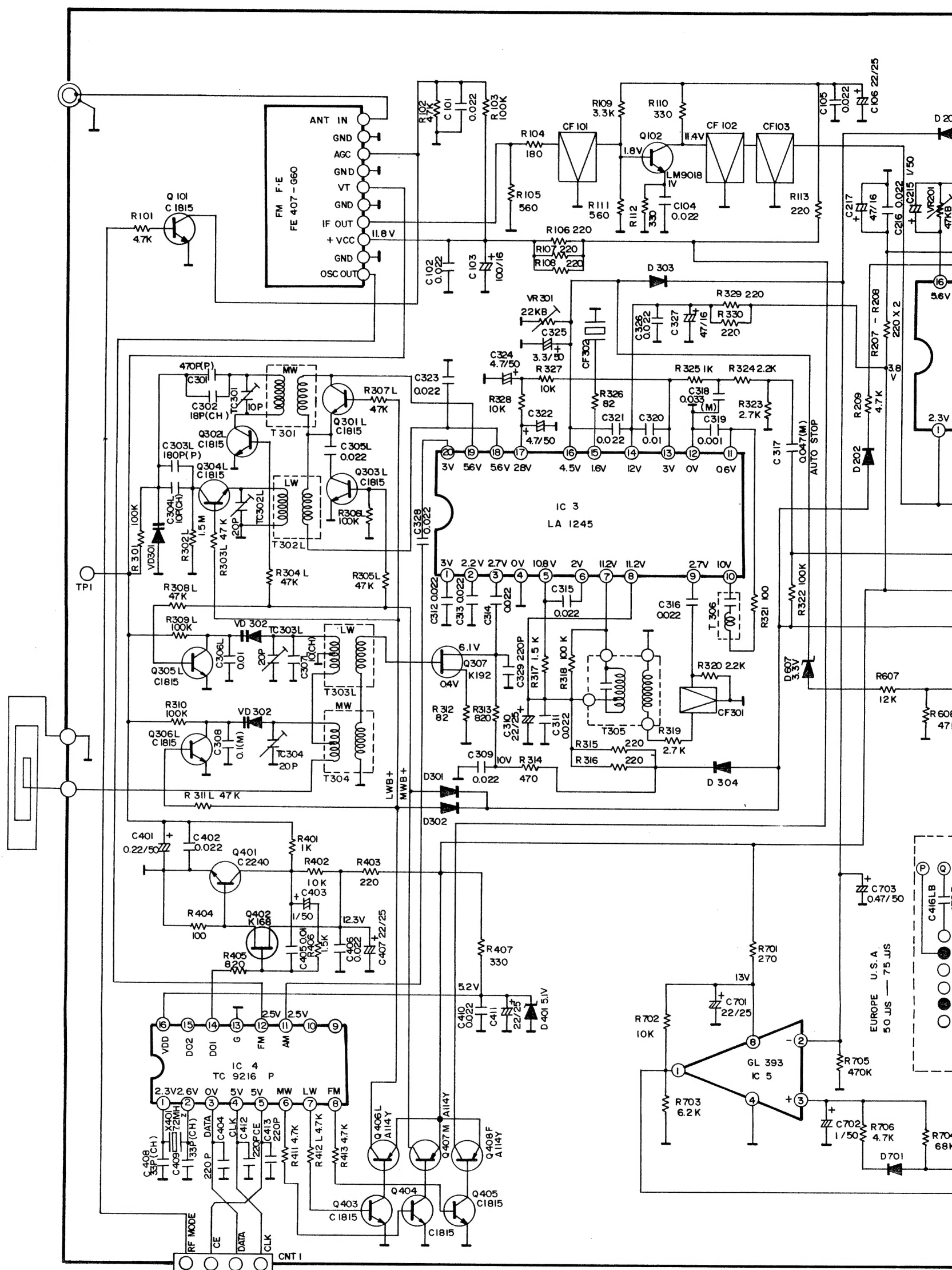
Ref. No.	Part No.	Description	Remark
R313	3069821970	820 Ω	LW only
R314	3069471970	470 Ω	
R315/R316	3069221970	220 Ω	
R317	3069152970	1.5k Ω	
R318	3069104970	100k Ω	
R319	3069272970	2.7k Ω	
R320	3069222970	2.2k Ω	
R321	3069101970	100 Ω	
R322	3069104970	100k Ω	
R323	3069272970	2.7k Ω	
R324	3069222970	2.2k Ω	
R325	3069102970	1k Ω	
R326	3069820970	82 Ω	
R327/R328	3069103970	10k Ω	
R329/R330	3069221970	220 Ω	
R401	3069102970	1k Ω	LW only
R402	3069103970	10k Ω	
R403	3069221970	220 Ω	
R404	3069101970	100 Ω	
R405	3069821970	820 Ω	
R406	3069152970	1.5k Ω	
R407	3069331970	330 Ω	
R408-R410	.	Not used !	
R411/R413	3069472970	4.7k Ω	
R412L	3069472970	4.7k Ω	
R501/R502	3069221970	220 Ω	
R503	3069104970	100k Ω	
R504L/R	3069182970	1.8k Ω	
R505L/R	3069392970	3.9k Ω	
R506L/R	3069223970	22k Ω	
R507L/R	3069473970	47k Ω	
R508	3069392970	3.9k Ω	
R509	3069224970	220k Ω	LW only
R510	3069335970	3.3M Ω	
R511	3069104970	100k Ω	
R512L/R	3069332970	3.3k Ω	
R513L/R	3069102970	1k Ω	
R514L/R	3069332970	3.3k Ω	
R515	3069472970	4.7k Ω	
R516	3069224970	220k Ω	
R517	3069563970	56k Ω	
R518/R519	3069223970	22k Ω	
R520	3069393970	39k Ω	
R521	3069102970	1k Ω	
R522	3069682970	6.8k Ω	
R601	3069181970	180 Ω	LW only
R602	3069182970	1.8k Ω	
R603	3069223970	22k Ω	
R604	3069224970	220k Ω	
R605	3069103970	10k Ω	
R606	3069331970	330 Ω	
R607	3069123970	12k Ω	
R608/R610	3069473970	47k Ω	
R609	3069102970	1k Ω	
R611	3069103970	10k Ω	
R612	3069562970	5.6k Ω	
R613B/R614B	.	Not used !	
R701	3069271970	270 Ω	
R702	3069103970	10k Ω	

Mechanical Parts List

Ref. No.	Part No.	Description	Remark
R703	3069622970	6.2kΩ	
R704	3069683970	68kΩ	
R705	3069474970	470kΩ	
R706	3069472970	4.7kΩ	
VR201/VR202	3248050343	50KB	
VR301	3248020343	20KB	
VR501	3248020443	200KB	
VR502	3248020243	2KB	
Transistors			
Q101	2208606104	KTC1815Y	
Q102	2008409101	LM9018F	LW only
Q301L-Q306L	2208606104	KTC1815	
Q307	2018207115	2SK192GR	
Q401	2208606108	KTC2240BL	
Q402	2018211100	2SK168D	
Q403-Q405	2208606104	KTC1815Y	LW only
Q406L	2008622105	DTA114YS	LW only
Q407M	2008622105	DTA114YS	
Q408F	2008622105	DTA114YS	
Q501	2208606104	KTC1815Y	
Q502/Q503	2008622104	DTA114TS	
Q504	2018207106	2SK117	
Q505L/R	2208606104	KTC1815Y	
Q601	2008622104	DTC114TS	
Q602/Q603	2208606104	KTC1815Y	
Others			
X-TAL401	3908101030	HC-18/V 7.2MHz	
FM F.E	3928801890	FM Front-End Pack (FE407-G60)	
P1/P2	4235006810	Ground Plate	
Front Board 4002216400			
Capacitors			
C801/C802	3519223520	Ceramic 0.022μF 25V Z	
C803/C804	2519270935	Ceramic 27pF 50V J	
C805/C806	3479322121	Electric SA 220μF 10V M	
C807	3479222871	Electric SA 0.22μF 50V M	
C808	3479210971	Electric SA 1μF 50V M	
C809	3479322071	Electric SA 22μF 50V M	
C810	3519223520	Ceramic 0.022μF 25V Z	
Connectors			
CNT1	4119104243	Ass'y 4P 240mm	
CNT2	4428526270	Plug 15P	
CNT3	4119102122	Slat Wire 2P 120mm	
Diodes			
D801	2258522120	MTZ 13B	

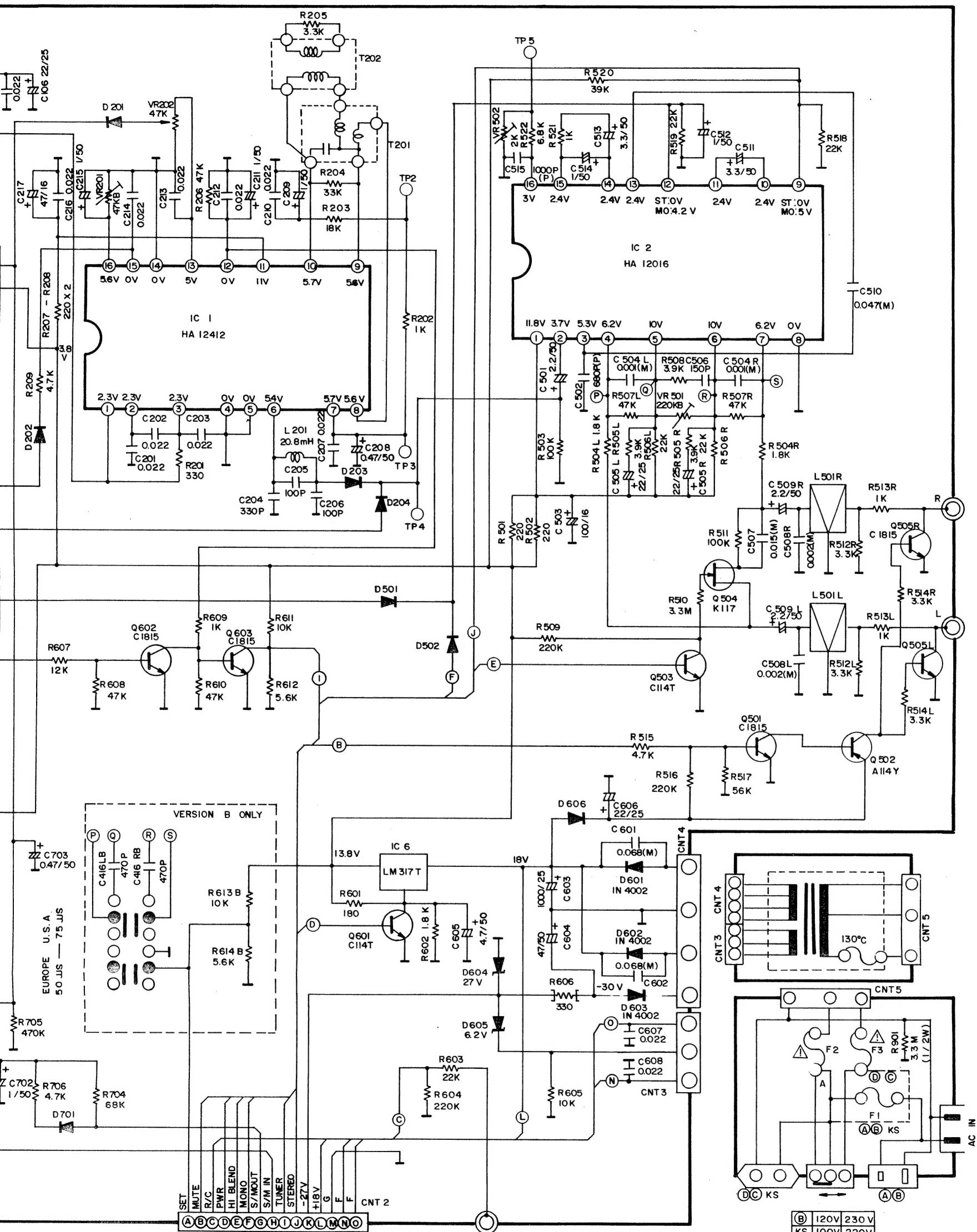
Ref. No.	Part No.	Description	Remark
D802	2258522111	MTZ 5.6B	
IC's			
IC7	2108499101	CAT 35C102P	
IC8	2138322108	CXP 50112 (DWP-505)	
Resistors			
R801-R804	3069102970	1kΩ	
R805	3069681970	680Ω	
R806	3069332970	3.3kΩ	
R807	3069334970	330kΩ	
R808	3069102970	1kΩ	
R809	3069822970	8.2kΩ	
R810-R812	3069272970	2.7kΩ	
R813	3069472970	4.7kΩ	
R814	3069104970	100kΩ	
R815-R818	3069473970	47kΩ	
R819/R820	3069103970	10kΩ	
Transistors			
Q801	2208606104	KTC1815Y	
Q802-Q803	2008622104	DTC114TS	
Others			
X801	3938131460	CSA 4.19MG	
.	2328130922	FIP 8CPM 8	
.	4002216420	Tact Switch Board	
Power Board 4002216500			
Connector			
CNT5	4428525790	Connector, Plug 3P	
F1	5508301735	Fuse, T 630mA 250V	
F3	5508300534	Fuse, T 63mA 250V	
.	4255001010	Fuse, Clip	
Power Trans Board 4002216500			
Other			
.	4118615250	Ban Card 15P 250mm	

No.	Description	Parts No.	Q'ty	Remark
1	Cover Top, Black	046122021011	1	
2	Chassis Main	6121605510	1	
3	Spacer, Black	6705004220	3	
4	Foot(A), (AL, Gold)	046033101711	2	Domestic
(4)	Foot(A), Gold H/Stamp	046033101811	2	
5	Outlet AC, Black	4448103610	1	C,D
6	Foot, AL Gold	046033101711	2	Domestic
(6)	Foot, Gold H/Stamp	046033101811	2	A
(6)	Foot, Black	6033101810	2	B,C,D,E,F
7	Cover Bottom	6123407610	1	
8	Chassis Back, Black	046102028512	1	Domestic
(8)	Chassis Back, Black	046102028522	1	A
(8)	Chassis Back, Black	046102028532	1	B
(8)	Chassis Back, Black	046102028542	1	C
(8)	Chassis Back, Black	046102028552	1	D
(8)	Chassis Back, Black	046102028562	1	E
(8)	Chassis Back, Black	046102028572	1	F
9	Power Transformer	4002216500	1	D
10	Badge, Sherwood	048535031911	1	
(10)	Badge	048535032511	1	Domestic
11	Panel Front, Black	048602017611	1	
12	Body Front, Black	048521006911	1	
13	Button Tact Preset	8543027110	2	
14	Antenna Loop	2608207360	1	
15	Window Display	048555034111	1	
16	Cover AL, Black	048505000211	1	
17	Button Power, Black	8545074310	1	
18	Button Spring	6555004380	1	
19	Button Tact, A, Black	048543027311	1	Domestic, A,B
(19)	Button Tact, B, Black	048543027411	1	C,D,E,F
20	Button Tact, C, Black	8543027510	1	Domestic, A,B
21	Bezel, Gold	048525007410	2	Domestic, A,B
22	Outlet, Black	4448100410	1	Domestic
23	Jack RCA	4438105610	1	
24	Jack Digilink	4438105010	1	
25	Switch Tact	4658003710	22	
26	Terminal Antenna	4408001510	1	A
(26)	Terminal Antenna	4408001610	1	C,D,E,F
27	Socket AC Power, Black	4448003110	1	A,B
(27)	Socket AC Power, Black	4448003010	1	Domestic, C,D,E,F
28	FL	.		
29	Cord AC Power	43080005710	1	A,B
(29)	Cord AC Power	4308001810	1	Domestic
(29)	Cord AC Power	4308002010	1	C,D
(29)	Cord AC Power	43080006010	1	E,F
.	Cord RCA	4328200510	1	
.	Cord Digilink	4328204510	1	
Screws				
S1	WSAM 4×8 ZNB	8159440083	# 4	
S2	#2PTC 3×8 ZNB	8119230083	19	
S3	#2WPTC 3×8 ZNY	8159230081	7	
S4	WSAM 4×8 ZNY	8159440081	2	
S5	#2BTC 3×8 ZNY	8109230081	8	
S6	#2FTC 3×8 ZNY	8129230081	2	
S7	#2BTC 3×6 ZNY	8109230061	7	
S8	#2WPTC 3×16 ZNY	8159230161	3	
S9	Ground	8155000710	2	



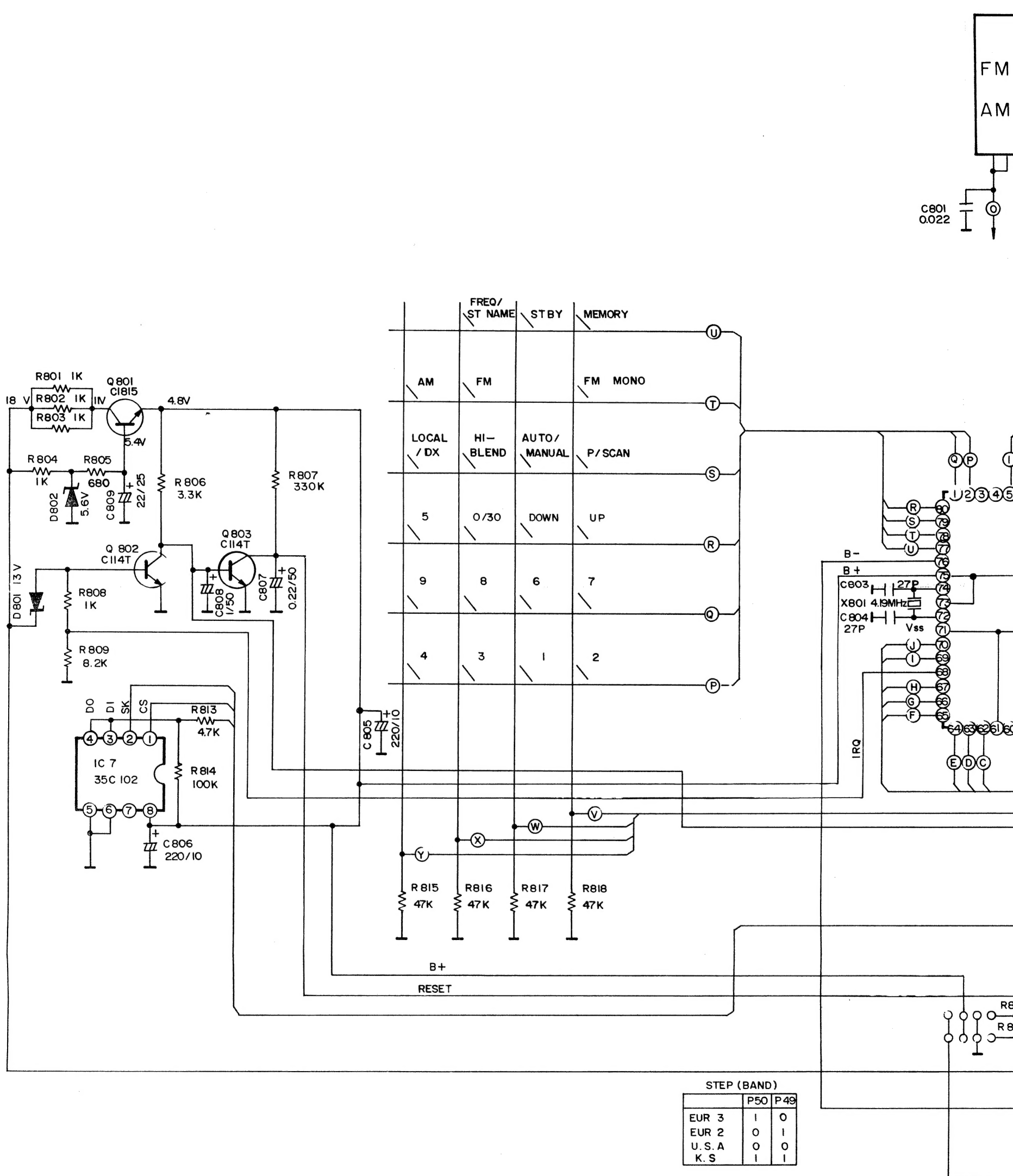
Schematic Diagram (II)

TX-3010C

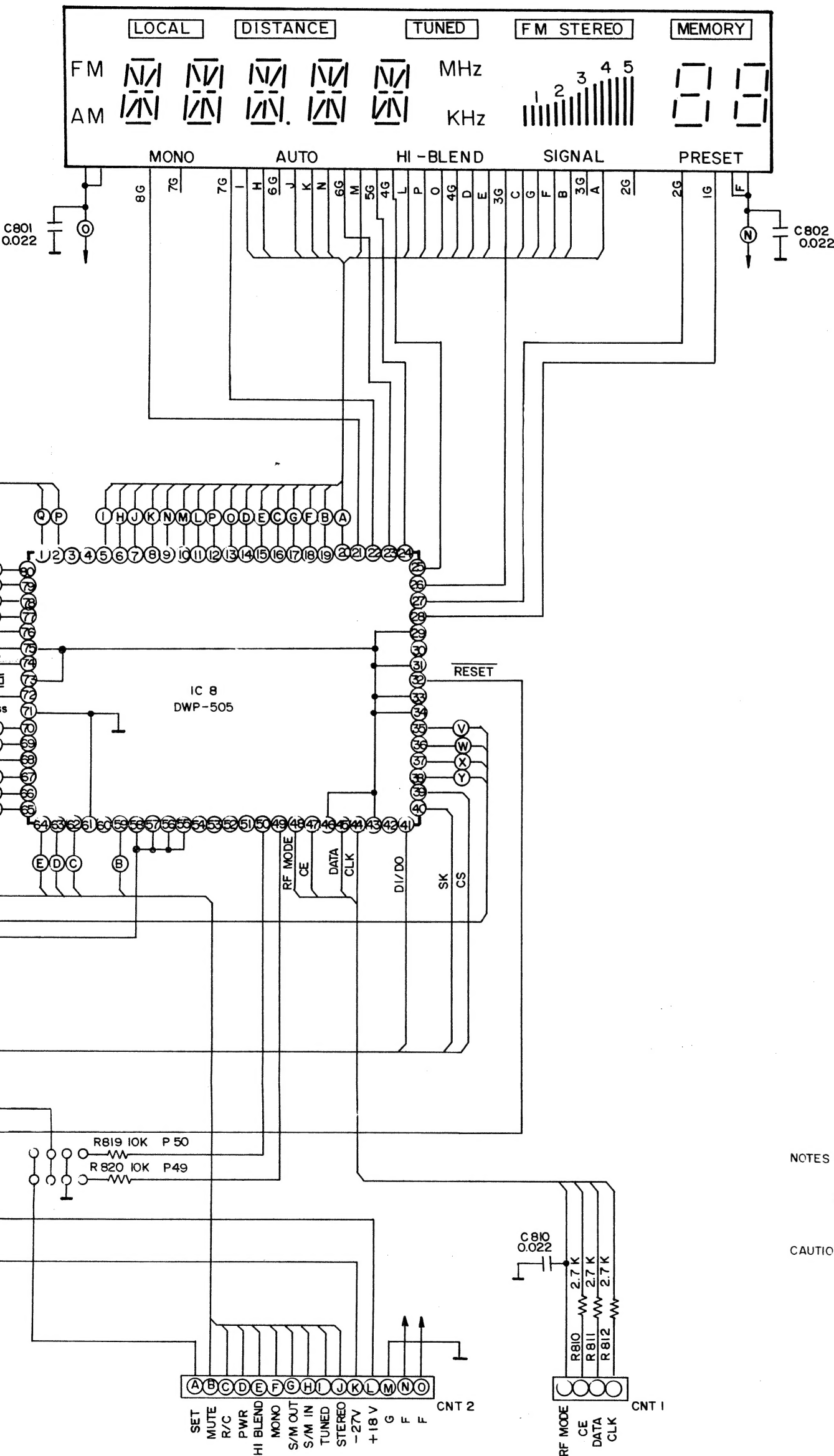


F1	(D)C	T630mA250V
F2	(A)B	N.B.0.25A/250V
	KS	N.B.0.25A/250V
F3	(D)C	T63mA 250V
	KS(B)	N.B.0.15A/250V

(B)	120V 230V
KS	100V 220V



FL 801



- NOTES 1. Resistance values are indicated in ohms unless otherwise specified (K = 1,000 M = 1,000,000)
2. Capacitance values are shown in microfarads unless otherwise noted (P = micro micro farads.)

CAUTION : Safety precautions to be followed during servicing

- 1) Since those parts marked with $\triangle$ are critical parts for safety use the one described parts list.
- 2) Before returning the receiver to the customer make appropriate leakage current or resistance measurements to determine that exposed parts are properly insulated from the supply circuit.