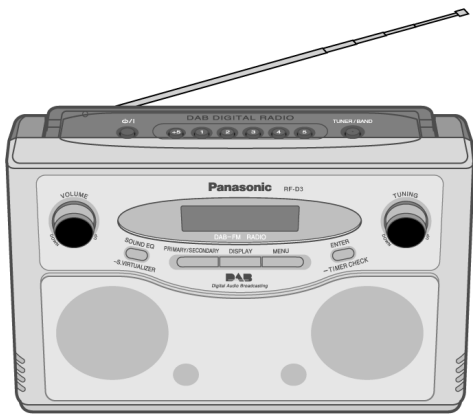


Service Manual

DAB-FM Radio



RF-D3EB

Colour

(S)..... Silver Type

Specifications

n Frequency range		FM	87.50~108.00 MHz (50 kHz steps)	n Power consumption	FM: About 25 hours) 16 W (AC adaptor)
		DAB BAND III	5A~13F (174.928~239.200 MHz)	n Speakers	
		(For the United Kingdom)	11B~12D (218.640~229.072 MHz)	Full range	5.7 cm, 6 Ω x 2
n Terminals				n Maximum Dimensions (W x H x D)	260 x 172 x 84 mm
		Input DAB EXT ANT	F-Connector (75 Ω)	n Cabinet Dimensions (W x H x D)	260 x 166 x 75 mm)
		Output PHONES	3.5 mm stereo (32 Ω)	n Mass	
		Output LINE OUT	3.5 mm stereo (2.2 k Ω)	With batteries	1.4 kg
n Power output			1.8 W + 1.8 W (RMS)	Without batteries	1.0 kg
n Power supply			AC 230~240 V,50 Hz	Notes:	
		AC adaptor	DC 9V,1A	1. Power consumption in standby mode: 1.3 W (AC adaptor)	
		Battery	DC 9 V (Six R14/LR14,UM-2 batteries)	2. Specifications are subject to change without notice.	
n Battery life				3. Mass and dimensions are approximate.	
		(Panasonic alkaline battery)	DAB: About 10 hours)		

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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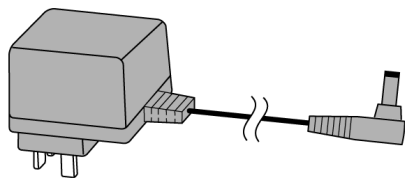
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1 Accessories

- AC adaptor
- (N0JEEG000001) 1pc.







2 Troubleshooting guide

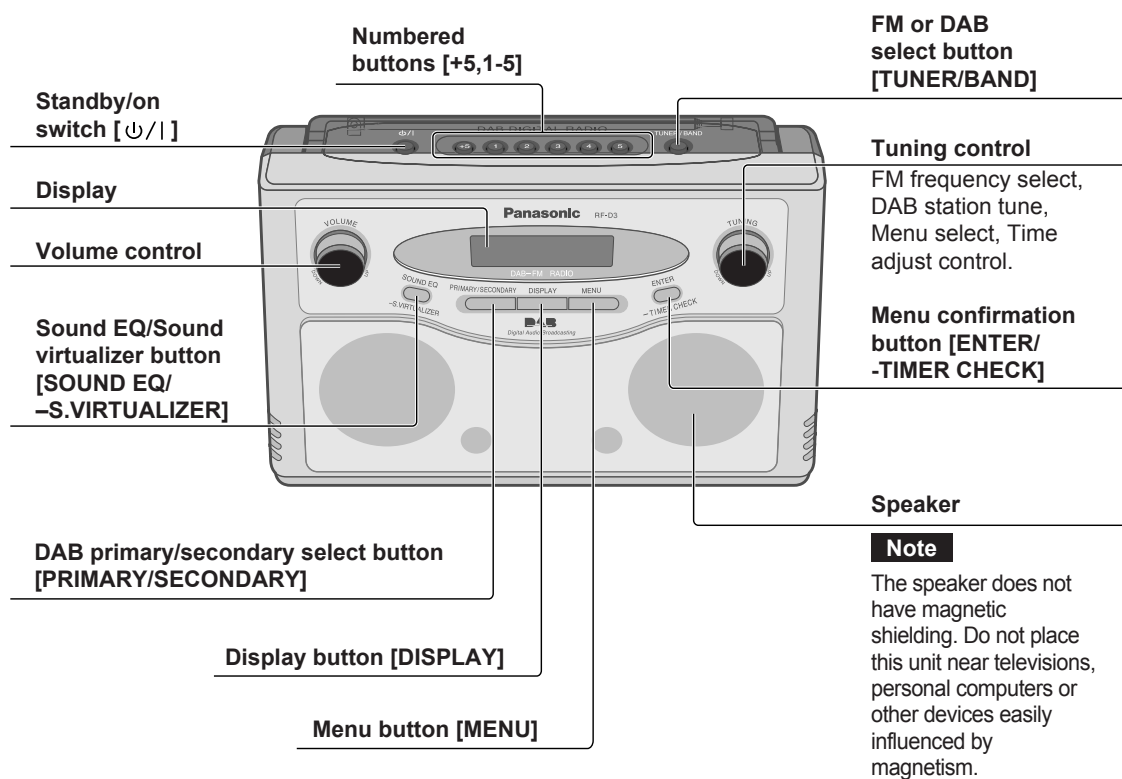
Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

No sound or there is a lot of noise.	<ul style="list-style-type: none"> • Keep this unit away from mobile telephones. • Turn the volume up. • Switch off the unit, determine and correct the cause, then switch the unit on.
Humming heard during play.	<ul style="list-style-type: none"> • An AC adaptor or fluorescent light is near the cables. Keep other appliances and cords away from this unit's cables.
A beat sound is heard while receiving a radio broadcast.	<ul style="list-style-type: none"> • Turn the TV off or separate it from the unit.
The picture on the television near the set disappears or stripes appear on the screen.	<ul style="list-style-type: none"> • The location and orientation of the antenna are incorrect. • The TV antenna wire is too close to the unit. Separate the antenna wire of the TV set from the unit.
DAB reception is poor.	<ul style="list-style-type: none"> • Keep the antenna away from computers, televisions, other cables and cords. • Use an outdoor antenna.
DAB reception does not work.	<ul style="list-style-type: none"> • Check the DAB antenna selector switch.

Display

--:--	<ul style="list-style-type: none"> • You plugged the AC adaptor in or used batteries if the AC adaptor was not connected for the first time or there was a power failure recently. Set the time.
ERROR	<ul style="list-style-type: none"> • Incorrect operation performed. Read the instructions and try again.
NO SERVICE	<ul style="list-style-type: none"> • The station is currently not broadcasting.
NO SIGNAL	<ul style="list-style-type: none"> • This station cannot be received. Check your antenna.
DATA	<ul style="list-style-type: none"> • Data broadcast being received over the DAB broadcast signal cannot be used on this unit.
SCRAMBLED	<ul style="list-style-type: none"> • The broadcast station being received cannot be accessed (E.g. pay per use etc.).
Scan Failed.	<ul style="list-style-type: none"> • Stations are not receivable. Check your antenna and try Auto scanning.
F □□ (□□ indicates a number.)	<ul style="list-style-type: none"> • Turn the unit off, disconnect the AC adaptor, and consult your dealer.
STATION FULL	<ul style="list-style-type: none"> • DAB station memory is full. Use the following method to clear station memory. <ol style="list-style-type: none"> 1. Press . 2. Select "STATION CLEAR" with . 3. Press . "OK? Push ENTER" is displayed. 4. Press . Station memory is erased and the unit automatically begins Auto scanning.

3 Location of Controls



4 Operation Checks and Component Replacement Procedures

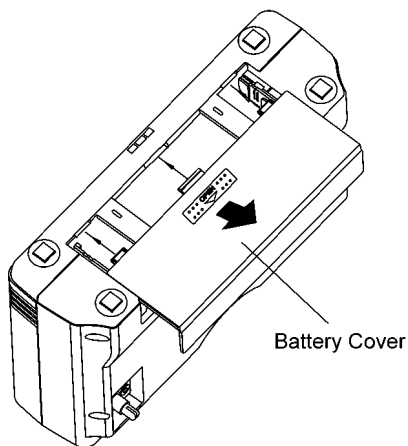
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures special ressembly procedures are described only when required.
3. Select item from the following index when checks or replacement are required.

Contents

1. Checking for the Battery Cover.
2. Checking for the Front Cabinet.
3. Checking for the Volume Knob and Tuning Knob.
4. Checking for the LCD P.C.B.
5. Checking for the Speaker.
6. Checking for the DAB Unit.
7. Checking for the ANT P.C.B.
8. Checking for the Main P.C.B.

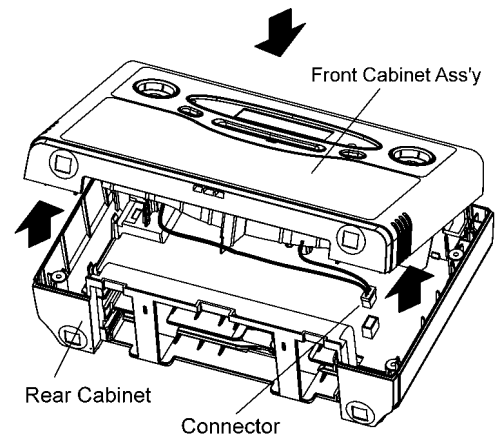
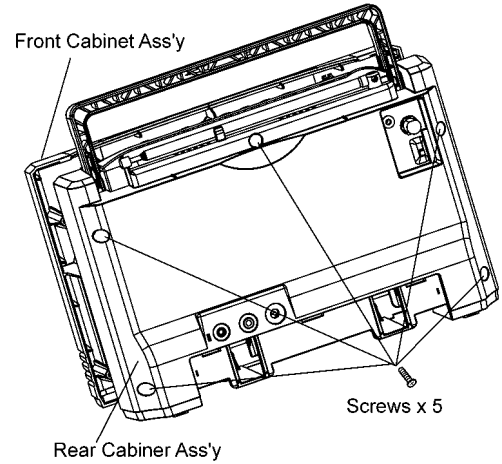
4.1. Removal of the Battery Cover

1. Remove the battery cover.



4.2. Removal of the Front Cabinet ass'y

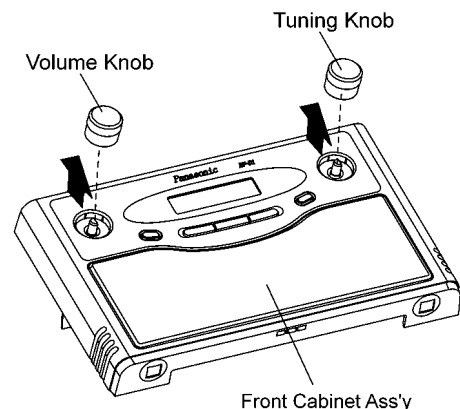
1. Remove the screws x 5.



2. Remove the front cabinet in the direction of arrow.
3. Remove the connector and then remove the front cabinet.

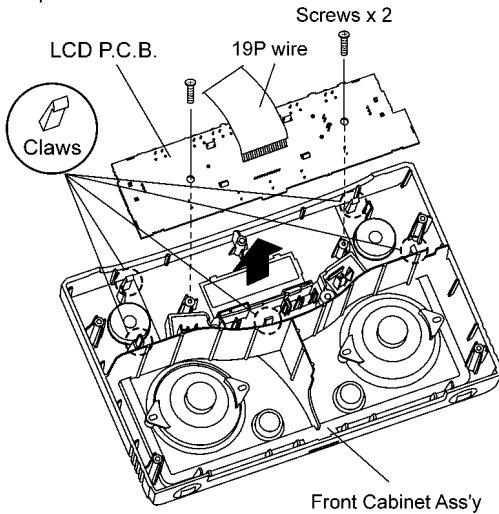
4.3. Removal of the Volume knob and Tuning knob

1. Remove the volume knob and tuning knob in the direction of arrow.



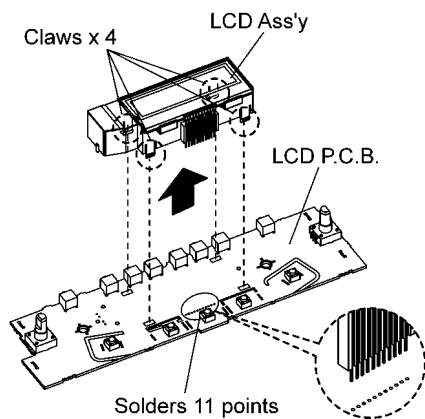
4.4. Removal of the LCD P.C.B.

- 1.Remove the 19P wire.
- 2.Remove the screws x 2.
- 3.Release the claws x 5,and then remove the operation PCB.



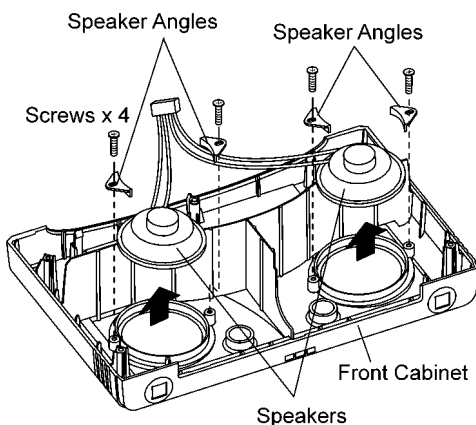
4.5. Removal of the LCD Ass'y

- 1.Remove the solders 11 points.
- 2.Release the claws x 4,and then remove the LCD ass'y.



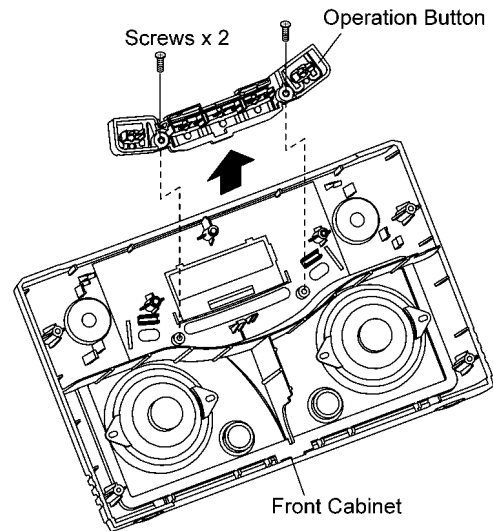
4.6. Removal of the Speakers

- 1.Remove the screws x 4.
- 2.Remove the speaker angles x 4,and then remove the speakers.



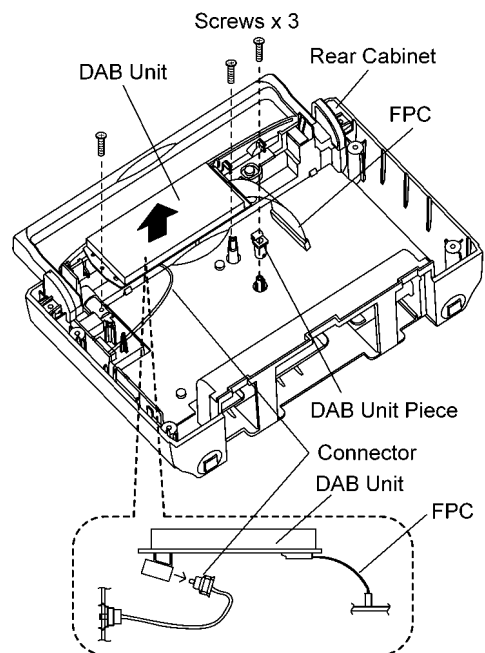
4.7. Removal of the Operation P.C.B.

- 1.Remove the screws x 2.
- 2.Remove the operation button in the direction of arrow.



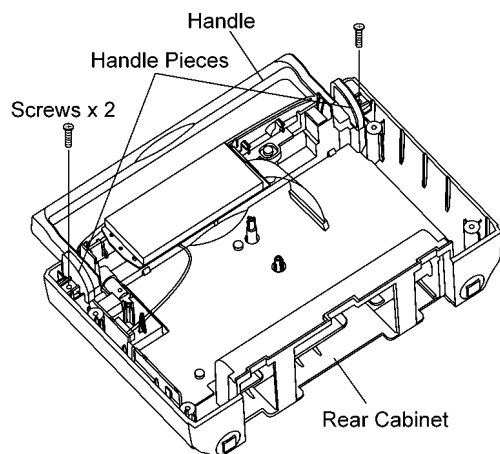
4.8. Removal of the DAB Unit

- 1.Remove the screws x 3.
- 2.Remove the DAB Unit piece.
- 3.Release the FPC and connector.
- 4.Remove the DAB Unit.



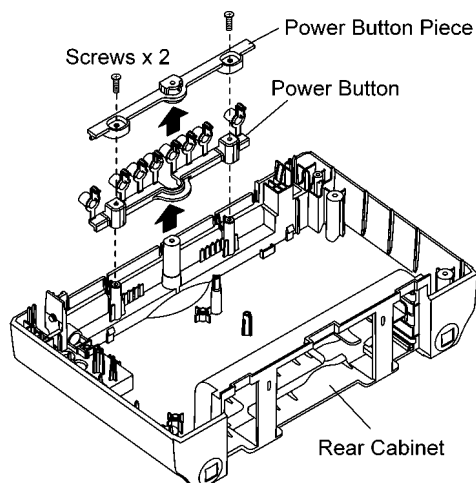
4.9. Removal of the Handle

- 1.Remove the screws x 2.
- 2.Remove the handle pieces and remove the handle.



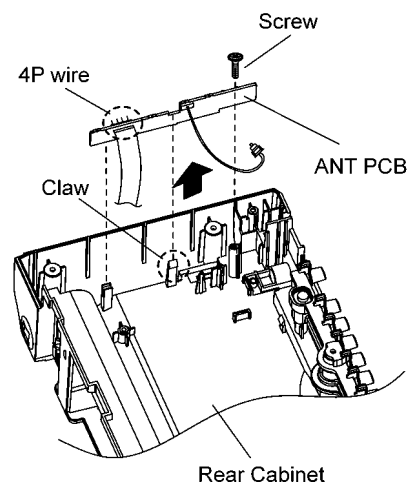
4.10. Removal of the Power Button

- 1.Remove the screws x 2.
- 2.Remove the power button piece and power button in the direction of arrow.



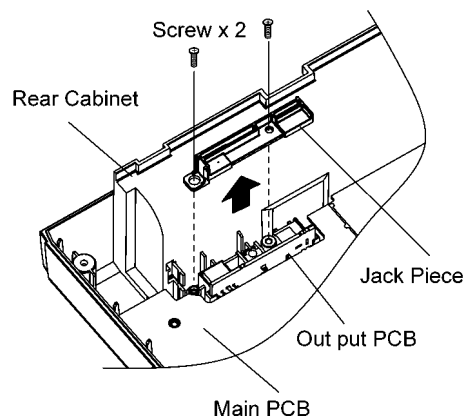
4.11. Removal of the ANT P.C.B.

- 1.Remove the screw x 1.
- 2.Unsolder the 4P wire.
- 3.Release the claw.
- 4.Remove the ANT PCB in the direction of arrow.



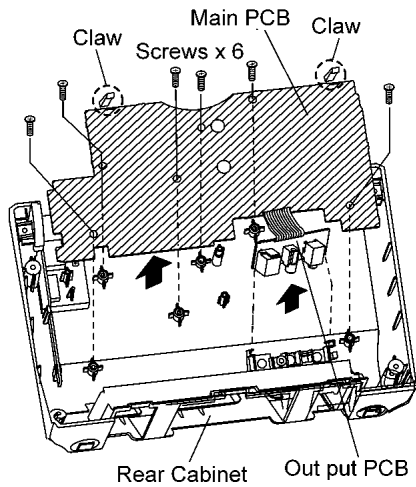
4.12. Removal of the Jack Piece

- 1.Remove the screw x 2.
- 2.Release the jack piece.



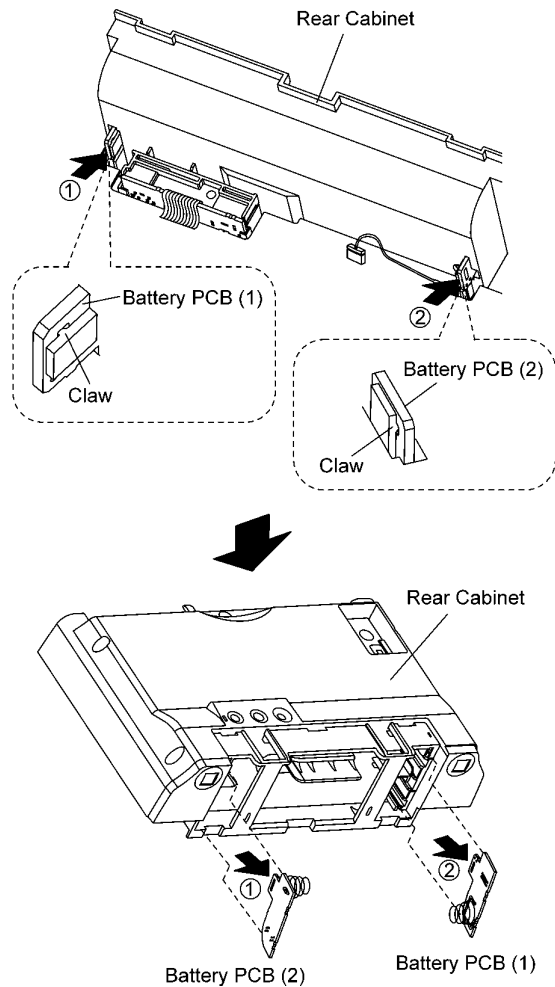
4.13. Removal of the Main PCB

- 1.Remove the screws x 6.
- 2.Release the claws x 2.
- 3.Remove the main PCB and out put PCB in the direction of arrow.


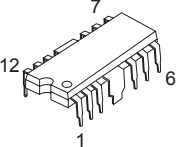
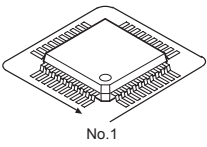
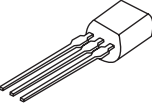
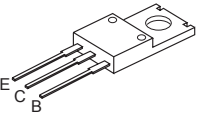
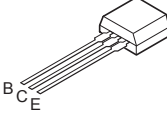
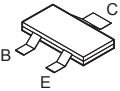
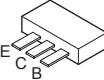
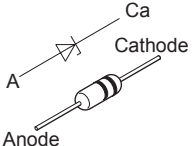
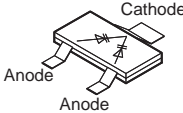
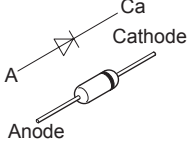
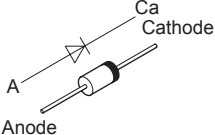
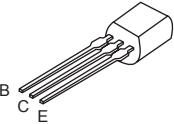
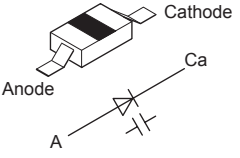


4.14. Removal of the Battery PCB (1) and Battery PCB (2)

- 1.Release the claws x 2.
- 2.Remove the battery PCB (1) and battery PCB (2) in the direction of arrow ① and ②.






5 Type Illustration of ICs, Transistors and Diodes

C1BB00000846 C1BB00000717 C3EBCG000108 	C0AAAA000035 	M30621MCP 	C0CAABC00007 C0EAG0000052 	2SA20570P 
	B1ACCF000076 B1GACFGJ0005 B1GCCFGJ0003 B1GACFNN0011	2SD1819ARL 	B1ACND000003 	MAZ41300H MAZ40620MF 
B0CDAB000019 	B0AACK000004 	1N4005ST 	B1AAGD000015 	1SS390TE61 

6 Schematic Diagram Notes

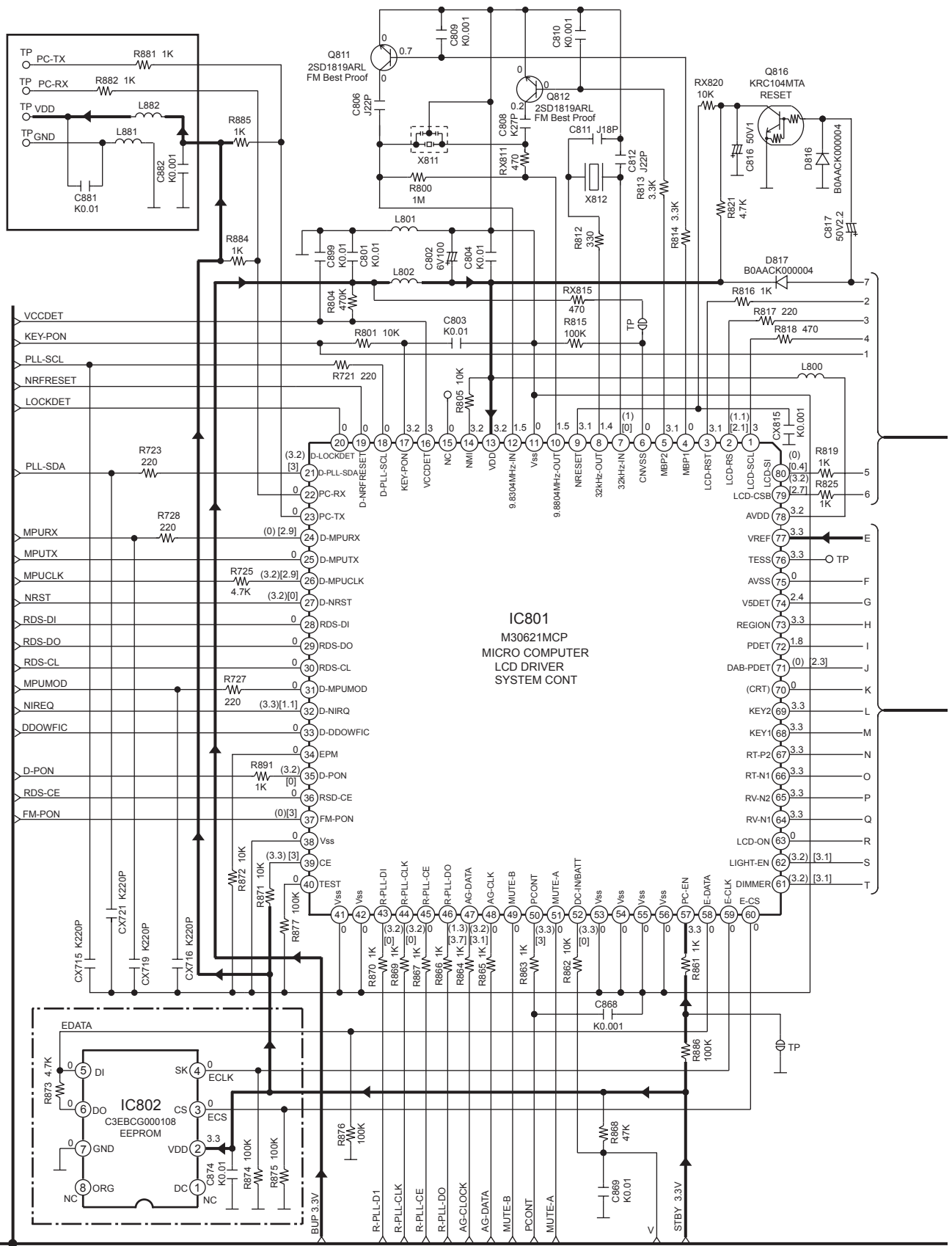
Notes:

- 1.SW601: DAB EXT/IN switch.
- 2.SW901: Tuner/Band switch
- 3.SW902: DM +5 switch.
- 4.SW903: DM1 switch.
- 5.SW904: DM2 switch.
- 6.SW905: DM3 switch.
- 7.SW906: DM4 switch.
- 8.SW907: DM5 switch.
- 9.SW911: Sound EQ switch.
- 10.SW912: Primary/Seconday switch.
- 11.SW913: Display switch.
- 12.SW914: Menu switch.
- 13.SW915: Enter/Tuning Mode switch.
- 14.SW918: Power switch.
- 15.SW921: Volume switch.
- 16.SW922: Tuning switch.
- 17.DC voltage measurement are taken witch electronics.
- 18.Voltmeter from negative terminal of battery.
()...FM position, []...DAB position,
No mark...FM & DAB position.
- 19.Battery current:
Volume minimum output (FM).....145 mA.
Volume maximum output (FM).....255 mA.
Volume minimum output (DAB).....350 mA.
Volume maximum output (DAB).....750 mA.
(Radio, 74dB 30% Modulation.)
20.  +B Voltage Line,  FM Signal Line.
 DAB Signal Line.

- This schematic diagram may be modified at any time with the development of new technology.

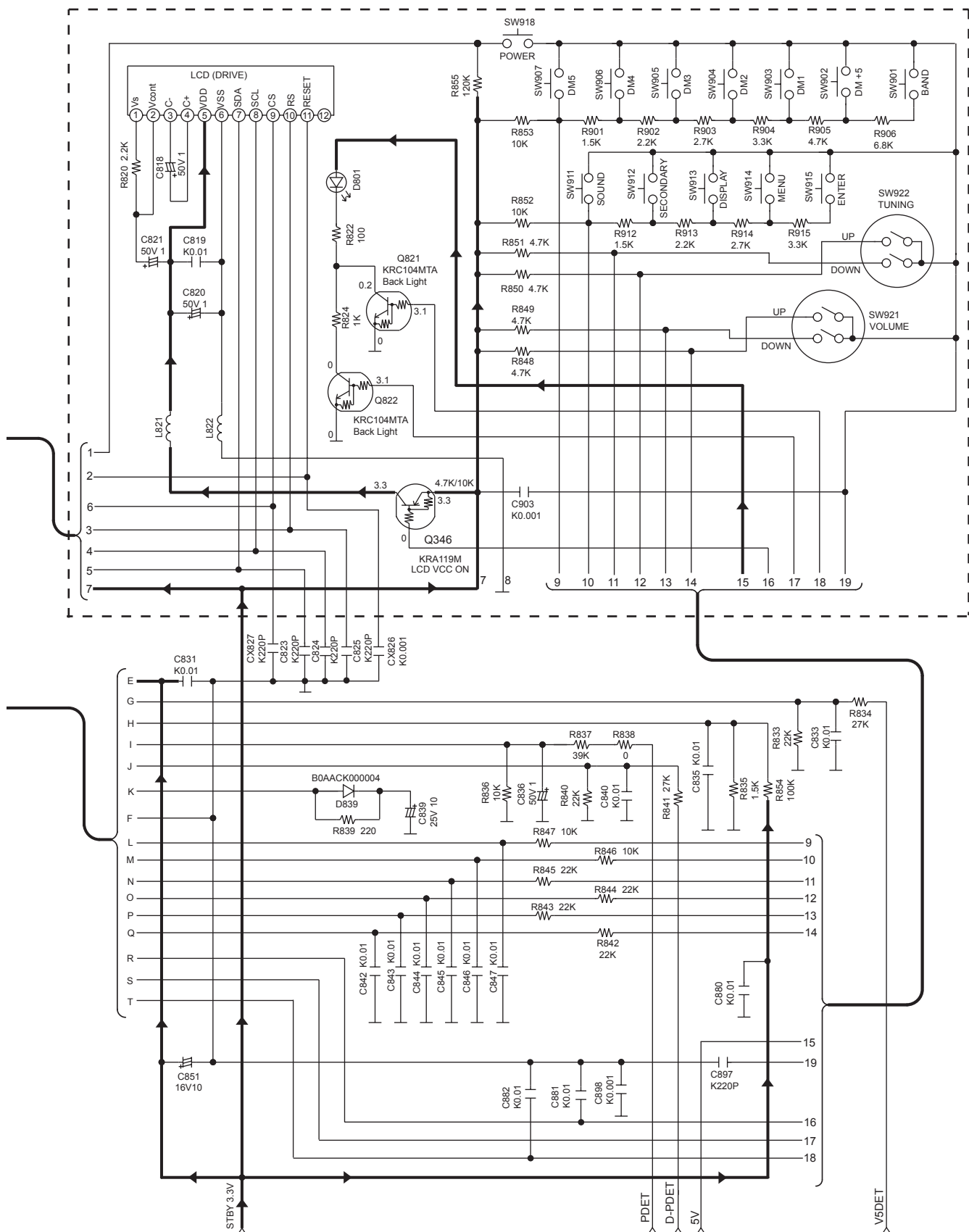


A MAIN CIRCUIT Schematic Diagram-2



RF-D3(EB) Main Circuit

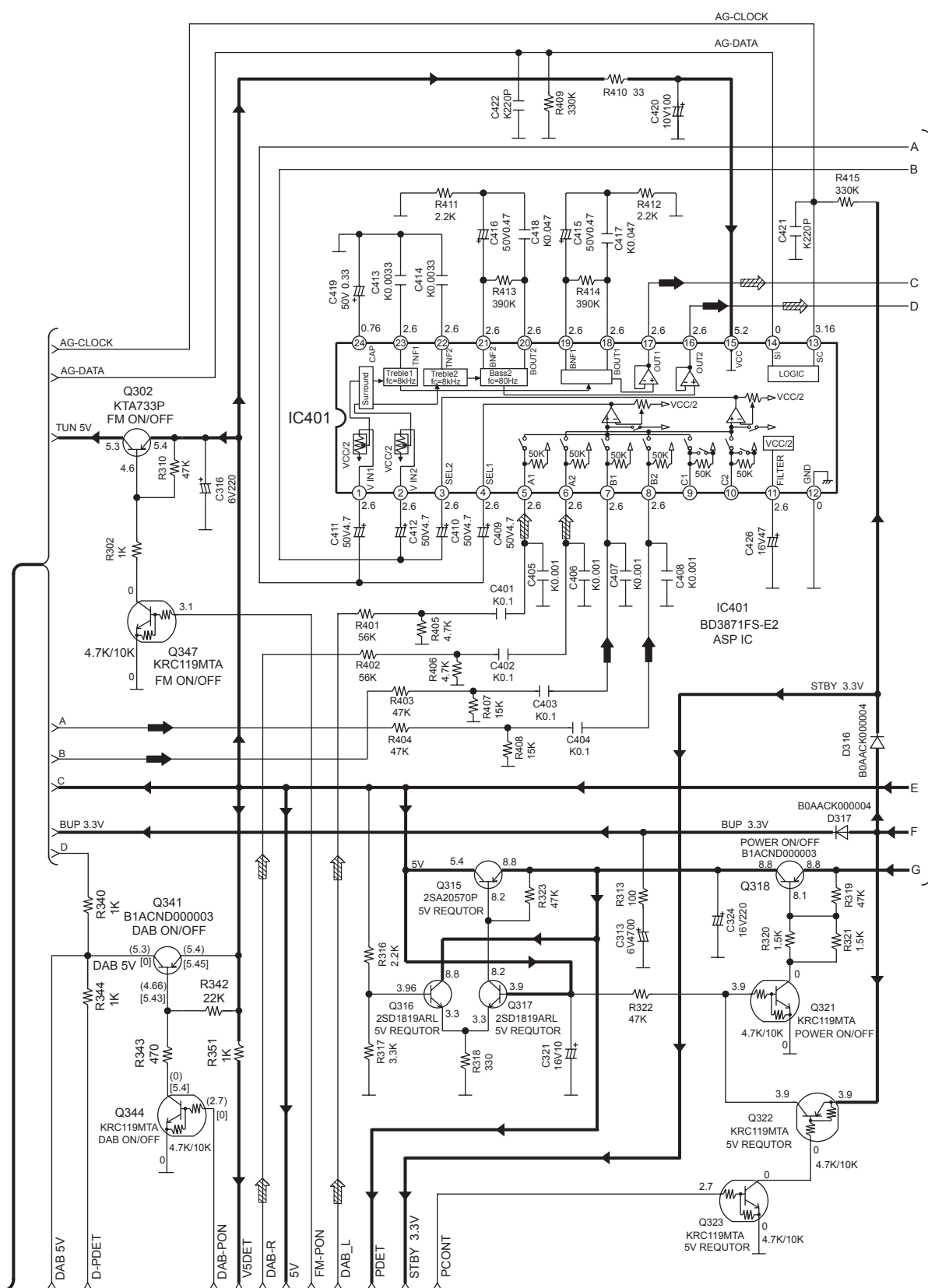
D LCD CIRCUIT Schematic Diagram



A MAIN CIRCUIT Schematic Diagram-3

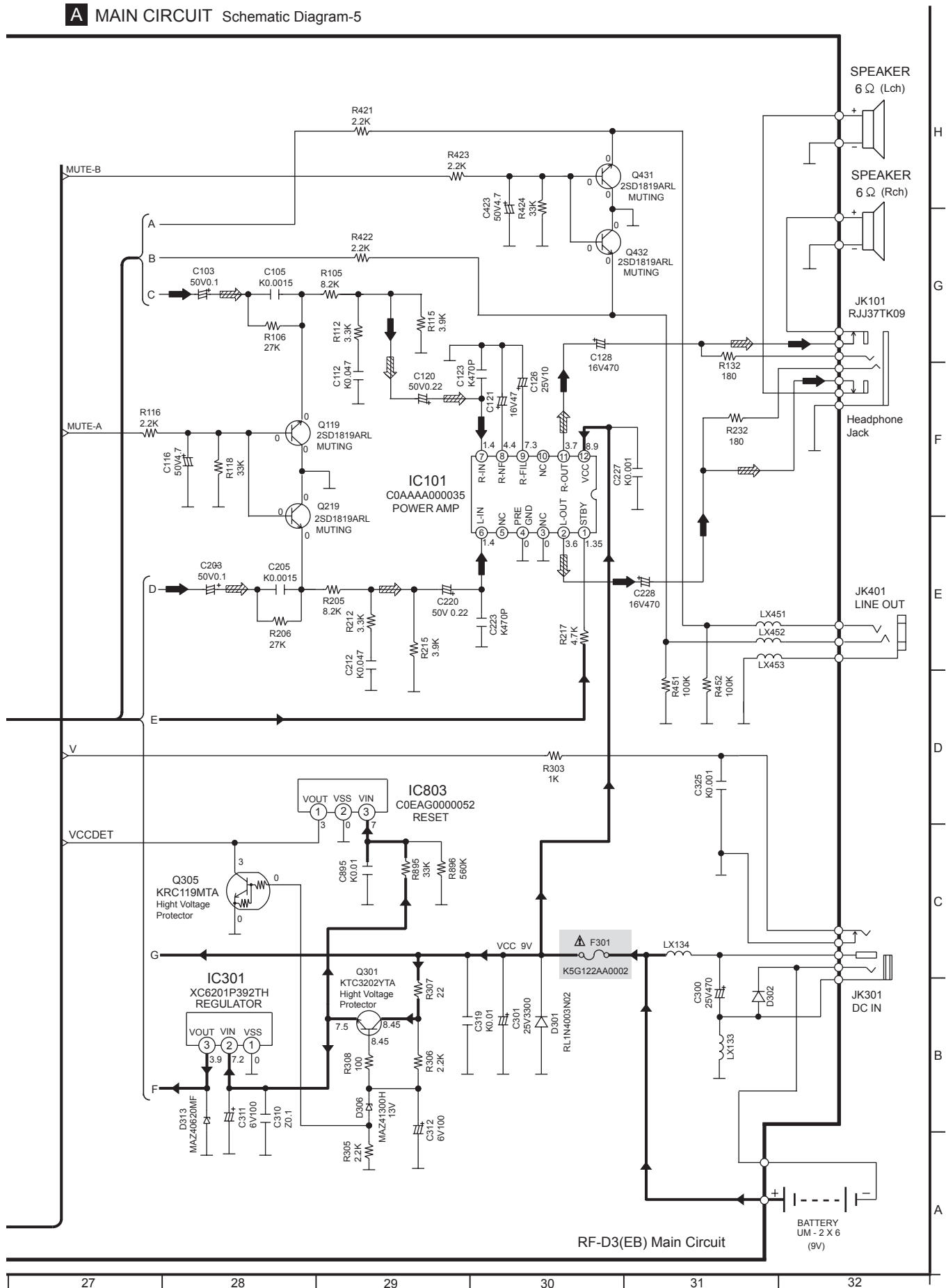
RF-D3(EB) Main Circuit

A MAIN CIRCUIT Schematic Diagram-4

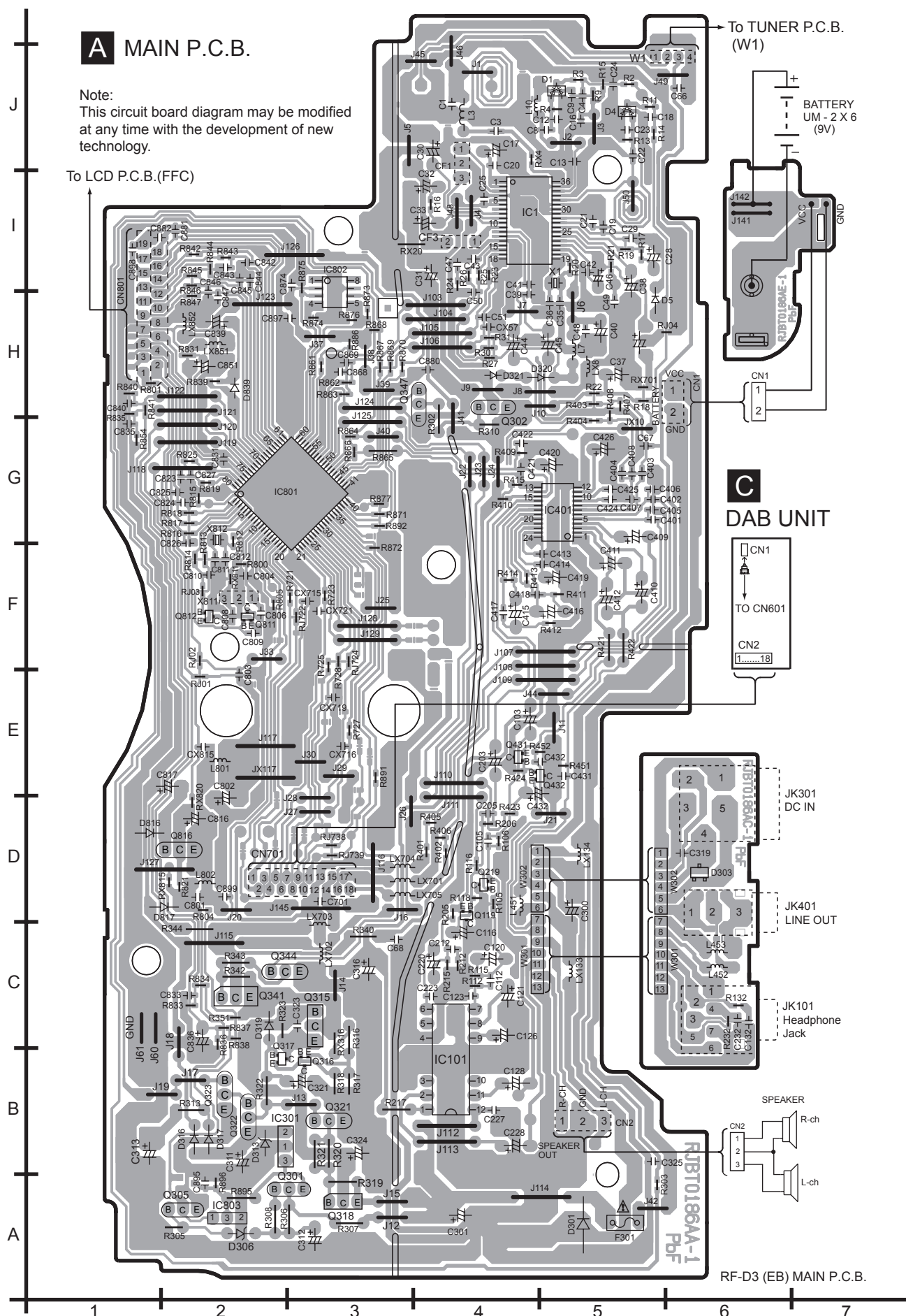


RF-D3(EB) Main Circuit

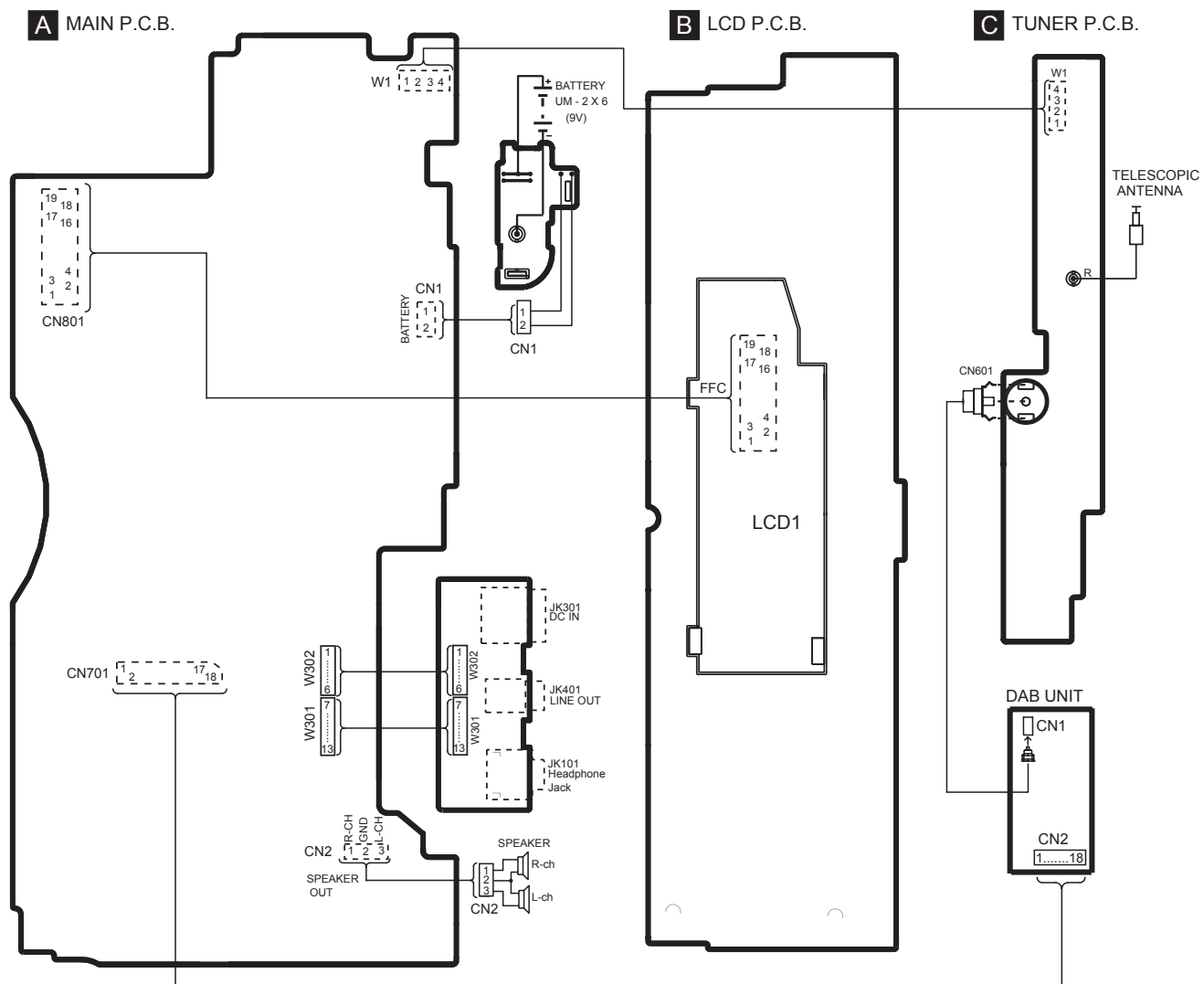
A MAIN CIRCUIT Schematic Diagram-5



8 Printed Circuit Board Diagram



9 Wiring Connection Diagram



10 Adjustments

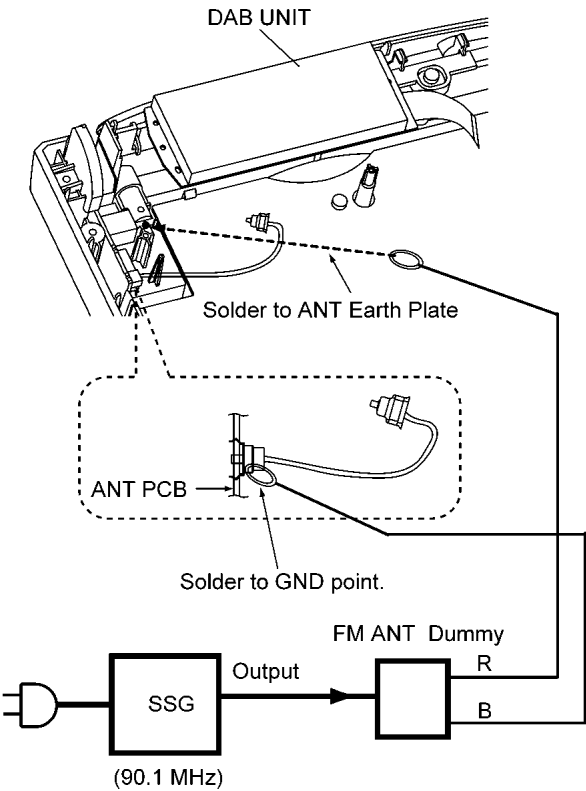
10.1. Tuner Section

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
1. Set volume control to maximum.	
2. Set power source voltage to 9V.	

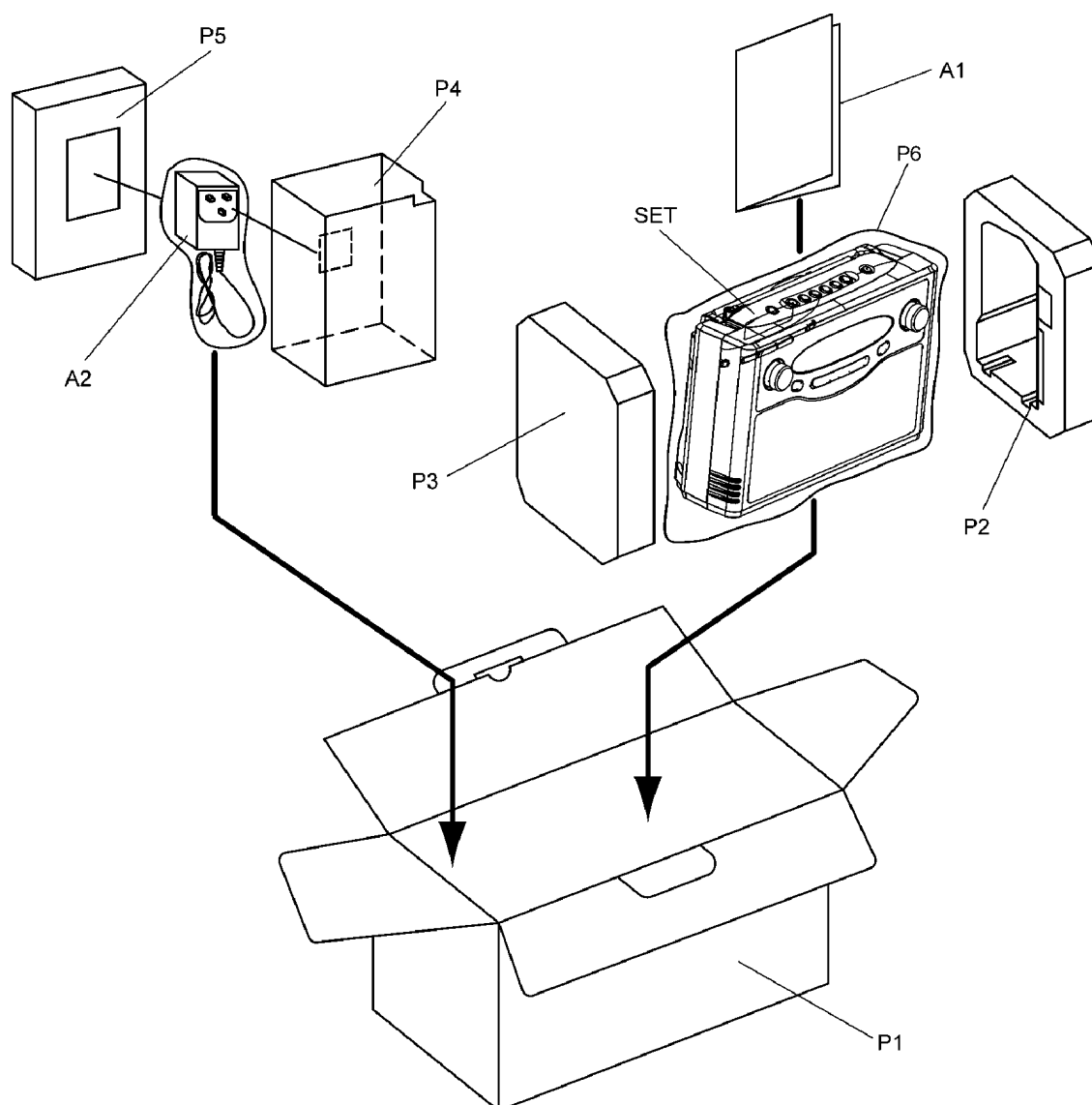
I FM-RF ALIGNMENT

Signal Generator or Sweep Generator		Radio Dial Setting	Indicator (Electronic Voltmeter or Oscilloscope)	Adjustment (Shown in Fig.1)	Remarks
Connections	Frequency				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	90.1 MHz	Tune to signal	Headphone Jack (32Ω) Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	[*1] L10 (FM ANT Coil)	Adjust for maximum output.

10.2. Check FM Steps



12 Packaging



13 Replacement Parts List

Notes:

- Important safety notice:

Components identified by △ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

- 1.(T) Indicates parts that are supplied **PTW**
- 2.The reference number SA represent the grease tool usea for unit.
- 3.The marking (RTL) indicates that Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
CABINET PARTS			
K1	RYKT0059A-S1	FRONT CAB ASSBEMBLY	(T)
K1-1	RMAT0065	SPEAKER ANGLE	(T)
K1-2	L0AA05A00057	SPEAKER	(T)
K1-3	RWJT3604260B	SPK.CORD	(T)
K1-4	XTV3+8GN	SCREW	(T)
K1-5	RGUT0199-1S	MAIN BUTTON	(T)
K1-6	RMGT0061-K	GUM	(T)
K1-7	RMQT0213	SPONGE	(T)
K2	RKST0098-1H1	REAR CABINET	(T)
K3	RGUT0198A-1H	POWER BUTTON	(T)
K4	RMRT0085-1H	POWER BUTTON PIECE	(T)
K5	ZA3D3EB-S	LCD ASSEMBLY	(T)
K5-1	RMNT0094-W1	LCD HOLDER	(T)
K5-2	RGCT0010-1	LCD LIGHT PIECE	(T)
K5-3	RGLT0005	LCD SHEET	(T)
K5-4	L5DCAGD00003	L.C.D.	(T)
K5-5	RMNT0095-1	LED FIXTURE PIECE	(T)
K5-6	LTW-2S3D7	LED	(T)
K6	RMGT0061-K	GUM	(T)
K7	RKQT0037-1H	UPPER ORNAMENT	(T)
K8	NIACF600003	ROD ANT.	(T)
K9	RJRT0014	ANT. EARTH PLATE	(T)
K10	XYN3+F14FN	ANT. SCREW	(T)
K11	RKHT0015-1H	HANDLE	(T)
K12	RMRT0081-1H	HANDLE PIECE (L)	(T)
K13	RMRT0082-1H	HANDLE PIECE (R)	(T)
K14	XTV3+8GN	SCREW	(T)
K15	RGWT0048-S	VOL KNOB	(T)
K16	RMRT0086-1H	JACK PIECE	(T)
K17	RMQT0212-K	SPONGE	(T)
K18	ZA4D1EB-S	SINGLE BRAID WIRE	(T)
K19	RMRT0083-1H	DAB UNIT PIECE	(T)
K20	XTV3+12GN	SCREW	(T)
K21	RYKT0065-1H	BATTERY CAB. ASSBEMBLY	(T)
K21-1	RKKT0054-1H	BATTERY COVER	(T)
K21-2	RMQT0206-K	SPONGE	(T)
K22	RHDT20027	SCREW	(T)
K23	K1KA04A00543	MAIN PCB CONNECTOR	(T)
K24	RWJT3204050C	4P WIRE	(T)
K25	RMQT0209	SPONGE	(T)
K26	RMQT0214	SPONGE	(T)
K27	RJCT60003	BATTERY SPRING	(T)
K28	REET0009-1	19P FFC	(T)
K29	RWJT3306050C	6P WIRE	(T)

Ref. No.	Part No.	Part Name & Description	Remarks
K30	RWJT3406050C	7P WIRE	(T)
K31	RWJT3502120B	CONNECTOR	(T)
K32	K1KA02A00597	MAIN PCB CONNECTOR	(T)
K33	RHDT14042-S	PWB SCREW	(T)
K34	REET0008-1	18P FFC	(T)
K35	RMBT0055	SPRING	(T)
K36	RHDT30065-S	SCREW (ANT.PCB)	(T)
K37	RMZT0095-K1	INSULATION SHEET	(T)
ACCESSORIES			
A1	RQTT0867-E	INSTRUCTION BOOK	(T)
A2	N0JEEG000001	AC ADAPTOR △	(T)
PACKING MATERIALS			
P1	RPKT0941	DECORATION BOX	(T)
P2	RPNT0497	POLYLON (R)	(T)
P3	RPNT0496	POLYLON (L)	(T)
P4	RPNT0510	PAD (FIXTURE)	(T)
P5	RPNT0504	PAD (FIXTURE)	(T)
P6	RPFT0079	SET BAG	(T)
P.C.B. ASS'Y			
PCB1	PBD3EB	PCB ASS'Y	(T)
DAB UNIT			
DAB1	RAL0044	DAB UNIT	(T)
DAB UNIT CONNECT			
CN1	K2HZ102Z0002	MINI CONNECTOR	(T)
CN2	K1MN18B00013	MAIN PCB CONNECTOR	(T)
INTEGRATED CIRCUITS TRANSISTORS AND DIODES			
IC1	C1BB00000846	I.C (D36P) TUNER	(T)
IC101	C0AAAA000036	POWER AMP I.C. (D14P)	(T)
IC301	C0CAABC00007	IC (3p)	(T)
IC401	C1BB00000717	I.C (24P)	(T)
IC801	C2CBJH000109	I.C (80P) (MICON)	(T)
IC802	C3EBCG000110	EEPROM	(T)
IC803	C0EAG0000052	RESET I.C (3P)	(T)
Q119	2SD1819ARL-F	TRANSISTOR	(T)
Q219	2SD1819ARL-F	TRANSISTOR	(T)
Q301	B1AAGD000015	TRANSISTOR	(T)
Q302	B1ACCF000076	TRANSISTOR	(T)
Q305	B1GACFGJ0005	TRANSISTOR	(T)
Q315	2SA20570P	TRANSISTOR	(T)
Q316	2SD1819ARL-F	TRANSISTOR	(T)
Q317	2SD1819ARL-F	TRANSISTOR	(T)
Q318	B1ACND000003	TRANSISTOR	(T)
Q321	B1GACFGJ0005	TRANSISTOR	(T)
Q322	B1GCCFGJ0003	TRANSISTOR	(T)
Q323	B1GACFGJ0005	TRANSISTOR	(T)
Q341	B1ACND000003	TRANSISTOR	(T)
Q344	B1GACFGJ0005	TRANSISTOR	(T)
Q346	B1GCCFGJ0003	TRANSISTOR	(T)
Q347	B1GACFGJ0005	TRANSISTOR	(T)
Q431	2SD1819ARL-F	TRANSISTOR	(T)
Q432	2SD1819ARL-F	TRANSISTOR	(T)
Q811	2SD1819ARL-F	TRANSISTOR	(T)
Q812	2SD1819ARL-F	TRANSISTOR	(T)
Q816	B1GACFNN0011	TRANSISTOR	(T)
Q821	B1GACFGJ0005	TRANSISTOR	(T)
Q822	B1GACFNN0011	TRANSISTOR	(T)
D1	B0CDAB000019	DIODE	(T)
D4	B0CDAB000019	DIODE	(T)
D5	B0AACK000004	DIODE	(T)
D301	1N4005ST	DIODE	(T)
D303	B0JCMC000004	SCHOTTKY DIODE	(T)
D306	MAZ41300H-F	DIODE	(T)
D313	MAZ40620MF-F	DIODE	(T)
D316	B0AACK000004	DIODE	(T)
D317	B0AACK000004	DIODE	(T)
D319	B0AACK000004	DIODE	(T)
D320	ERDS2TJ102T	CARBON RESISTOR	(T)
D321	B0AACK000004	DIODE	(T)
D602	D0GBR00JA008	CHIP RESISTOR	(T)
D816	B0AACK000004	DIODE	(T)
D817	B0AACK000004	DIODE	(T)

Ref. No.	Part No.	Part Name & Description	Remarks
D839	B0AACK000004	DIODE	(T)
L3	RLQY30S1-LF	COIL	(T)
L7	G0C101JA0019	CHOKE COIL	(T)
L10	RLD4Y45-LF	COIL	(T)
L603	G0C1R0JA0019	COIL	(T)
L611	RL04Y288-LF	COIL	(T)
L621	RL04Y286-LF	COIL	(T)
L622	RL04Y286-LF	COIL	(T)
L623	RL04Y287-LF	COIL	(T)
L801	G0C2R2JA0019	COIL	(T)
L802	G0C2R2JA0019	COIL	(T)
L821	G0C2R2JA0019	COIL	(T)
L822	G0C2R2JA0019	COIL	(T)
LX133	RL50050-Y	COIL	(T)
LX134	RL50050-Y	COIL	(T)
LX451	G0C101JA0019	CHOKE COIL	(T)
LX452	G0C101JA0019	CHOKE COIL	(T)
LX453	G0C101JA0019	CHOKE COIL	(T)
LX701	G0C2R2JA0019	COIL	(T)
LX703	G0C2R2JA0019	COIL	(T)
CERAMIC FILTERS			
CF1	J0B1075A0101	CERAMIC FILTER	(T)
CF3	J0B1075A0121	CERAMIC FILTER	(T)
CONNECTOR			
CN701	K1MN18A00046	FFC/FPC CONNECTOR	(T)
CN801	K1MN19A00026	MAIN PCB CONNECTOR	(T)
FUSE PROTECTOR			
F301	K5G122AA0002	CHIP FUSE Δ	(T)
CERAMIC RESONATOR			
X811	H2B100500007	CRYSTAL	(T)
X812	H0A327200097	CRYSTAL	(T)
SWITCH			
SW901	EVQPC105K	TACT SWITCH	(T)
SW902	EVQPC105K	TACT SWITCH	(T)
SW903	EVQPC105K	TACT SWITCH	(T)
SW904	EVQPC105K	TACT SWITCH	(T)
SW905	EVQPC105K	TACT SWITCH	(T)
SW906	EVQPC105K	TACT SWITCH	(T)
SW907	EVQPC105K	TACT SWITCH	(T)
SW918	EVQPC105K	TACT SWITCH	(T)
SW911	EVQ21405R	TACT SWITCH	(T)
SW912	EVQ21405R	TACT SWITCH	(T)
SW913	EVQ21405R	TACT SWITCH	(T)
SW914	EVQ21405R	TACT SWITCH	(T)
SW915	EVQ21405R	TACT SWITCH	(T)
SW921	K9AA024A0012	ROTARY SW.	(T)
SW922	K9AA024A0012	ROTARY SW.	(T)
JACK			
JK101	RJJ37TK09	HP JACK	(T)
JK301	K2EC5B000001	DC IN JACK	(T)
JK401	K2HC103B0158	LINE OUT JACK	(T)
RESISTORS			
R2	D0GB104JA008	CHIP RESISTOR	(T)
R3	D0GB332JA008	CHIP RESISTOR	(T)
R4	D0GB104JA008	CHIP RESISTOR	(T)
R9	D0GBR00JA008	CHIP RESISTOR	(T)
R11	D0GB103JA008	CHIP RESISTOR	(T)
R13	D0GB104JA008	CHIP RESISTOR	(T)
R14	D0GB472JA008	CHIP RESISTOR	(T)
R15	D0GBR00JA008	CHIP RESISTOR	(T)
R16	D0GB332JA008	CHIP RESISTOR	(T)
R17	D0GB152JA008	CHIP RESISTOR	(T)
R18	D0GB332JA008	CHIP RESISTOR	(T)
R19	D0GB472JA008	CHIP RESISTOR	(T)
R20	D0GB393JA008	CHIP RESISTOR	(T)
R21	D0GB103JA008	CHIP RESISTOR	(T)
R22	D0GB102JA008	CHIP RESISTOR	(T)
R23	D0GB103JA008	CHIP RESISTOR	(T)
R24	D0GB104JA008	CHIP RESISTOR	(T)
R25	D0GB103JA008	CHIP RESISTOR	(T)
R26	D0GB103JA008	CHIP RESISTOR	(T)
R27	D0GB223JA008	CHIP RESISTOR	(T)
R30	D0GB223JA008	CHIP RESISTOR	(T)
R31	D0GB223JA008	CHIP RESISTOR	(T)

Ref. No.	Part No.	Part Name & Description	Remarks
R105	D0GB822JA008	CHIP RESISTOR	(T)
R106	D0GB273JA008	CHIP RESISTOR	(T)
R112	D0GB332JA008	CHIP RESISTOR	(T)
R115	D0GB392JA008	CHIP RESISTOR	(T)
R116	D0GB222JA008	CHIP RESISTOR	(T)
R118	D0GB333JA008	CHIP RESISTOR	(T)
R132	D0GB181JA008	CHIP RESISTOR	(T)
R205	D0GB822JA008	CHIP RESISTOR	(T)
R206	D0GB273JA008	CHIP RESISTOR	(T)
R212	D0GB332JA008	CHIP RESISTOR	(T)
R215	D0GB392JA008	CHIP RESISTOR	(T)
R217	ERDS2TJ472T	CARBON RESISTOR	(T)
R232	D0GB181JA008	CHIP RESISTOR	(T)
R302	ERDS2TJ102T	CARBON RESISTOR	(T)
R303	D0GB102JA008	CHIP RESISTOR	(T)
R305	ERDS2TJ222T	CARBON RESISTOR	(T)
R306	ERDS2TJ222T	CARBON RESISTOR	(T)
R307	ERD2FCVG220T	CARBON RESISTOR	(T)
R308	ERDS2TJ101T	CARBON RESISTOR	(T)
R310	ERDS2TJ473T	CARBON RESISTOR	(T)
R313	W6NL	WIRE	(T)
R316	ERDS2TJ122T	CARBON RESISTOR	(T)
R317	ERDS2TJ332T	CARBON RESISTOR	(T)
R318	ERDS2TJ331T	CARBON RESISTOR	(T)
R319	ERDS2TJ473T	CARBON RESISTOR	(T)
R320	ERDS2TJ152T	CARBON RESISTOR	(T)
R321	ERDS2TJ152T	CARBON RESISTOR	(T)
R322	ERDS2TJ472T	CARBON RESISTOR	(T)
R323	ERDS2TJ473T	CARBON RESISTOR	(T)
R340	ERDS2TJ102T	CARBON RESISTOR	(T)
R342	ERDS2TJ223T	CARBON RESISTOR	(T)
R343	ERDS2TJ471T	CARBON RESISTOR	(T)
R344	ERDS2TJ102T	CARBON RESISTOR	(T)
R351	D0GB102JA008	CHIP RESISTOR	(T)
R401	D0GB563JA008	CHIP RESISTOR	(T)
R402	D0GB563JA008	CHIP RESISTOR	(T)
R403	D0GB473JA008	CHIP RESISTOR	(T)
R404	D0GB473JA008	CHIP RESISTOR	(T)
R405	D0GB472JA008	CHIP RESISTOR	(T)
R406	D0GB472JA008	CHIP RESISTOR	(T)
R407	D0GB123JA008	CHIP RESISTOR	(T)
R408	D0GB123JA008	CHIP RESISTOR	(T)
R409	D0GB334JA008	CHIP RESISTOR	(T)
R410	D0GB330JA008	CHIP RESISTOR	(T)
R411	D0GB222JA008	CHIP RESISTOR	(T)
R412	D0GB222JA008	CHIP RESISTOR	(T)
R413	D0GB394JA008	CHIP RESISTOR	(T)
R414	D0GB394JA008	CHIP RESISTOR	(T)
R415	D0GB334JA008	CHIP RESISTOR	(T)
R421	ERDS2TJ2R2T	CARBON RESISTOR	(T)
R422	ERDS2TJ2R2T	CARBON RESISTOR	(T)
R423	D0GB222JA008	CHIP RESISTOR	(T)
R424	D0GB333JA008	CHIP RESISTOR	(T)
R451	D0GB104JA008	CHIP RESISTOR	(T)
R452	D0GB104JA008	CHIP RESISTOR	(T)
R604	D0GB102JA008	CHIP RESISTOR	(T)
R611	D0GB102JA008	CHIP RESISTOR	(T)
R615	D0GB103JA008	CHIP RESISTOR	(T)
R621	D0GB103JA008	CHIP RESISTOR	(T)
R721	D0GB221JA008	CHIP RESISTOR	(T)
R723	D0GB221JA008	CHIP RESISTOR	(T)
R725	D0GB472JA008	CHIP RESISTOR	(T)
R727	D0GB221JA008	CHIP RESISTOR	(T)
R728	D0GB221JA008	CHIP RESISTOR	(T)
R800	D0GB105JA008	CHIP RESISTOR	(T)
R801	D0GB472JA008	CHIP RESISTOR	(T)
R804	D0GB474JA008	CHIP RESISTOR	(T)
R805	D0GB103JA008	CHIP RESISTOR	(T)
R812	D0GB331JA008	CHIP RESISTOR	(T)
R813	D0GB332JA008	CHIP RESISTOR	(T)
R814	D0GB332JA008	CHIP RESISTOR	(T)
R815	D0GB104JA008	CHIP RESISTOR	(T)
R816	D0GB222JA008	CHIP RESISTOR	(T)
R817	D0GB102JA008	CHIP RESISTOR	(T)

Ref. No.	Part No.	Part Name & Description	Remarks
R818	D0GB102JA008	CHIP RESISTOR	(T)
R819	D0GB102JA008	CHIP RESISTOR	(T)
R820	D0GB222JA008	CHIP RESISTOR	(T)
R821	D0GB472JA008	CHIP RESISTOR	(T)
R822	ERDS2TJ101T	CARBON RESISTOR	(T)
R823	ERDS2TJ101T	CARBON RESISTOR	(T)
R824	ERDS2TJ102T	CARBON RESISTOR	(T)
R825	D0GB222JA008	CHIP RESISTOR	(T)
R831	D0GB103JA008	CHIP RESISTOR	(T)
R833	D0GB223JA008	CHIP RESISTOR	(T)
R834	D0GB273JA008	CHIP RESISTOR	(T)
R836	D0GB103JA008	CHIP RESISTOR	(T)
R837	D0GB393JA008	CHIP RESISTOR	(T)
R838	D0GBR00JA008	CHIP RESISTOR	(T)
R839	D0GB224JA008	CHIP RESISTOR	(T)
R840	D0GB223JA008	CHIP RESISTOR	(T)
R841	D0GB273JA008	CHIP RESISTOR	(T)
R842	D0GB223JA008	CHIP RESISTOR	(T)
R843	D0GB223JA008	CHIP RESISTOR	(T)
R844	D0GB223JA008	CHIP RESISTOR	(T)
R845	D0GB223JA008	CHIP RESISTOR	(T)
R846	D0GB103JA008	CHIP RESISTOR	(T)
R847	D0GB103JA008	CHIP RESISTOR	(T)
R848	ERDS2TJ473T	CARBON RESISTOR	(T)
R849	ERDS2TJ473T	CARBON RESISTOR	(T)
R850	ERDS2TJ473T	CARBON RESISTOR	(T)
R851	ERDS2TJ473T	CARBON RESISTOR	(T)
R852	ERDS2TJ103T	CARBON RESISTOR	(T)
R853	ERDS2TJ103T	CARBON RESISTOR	(T)
R854	D0GB104JA008	CHIP RESISTOR	(T)
R855	ERDS2TJ224T	CARBON RESISTOR	(T)
R861	D0GB102JA008	CHIP RESISTOR	(T)
R862	D0GB103JA008	CHIP RESISTOR	(T)
R863	D0GB102JA008	CHIP RESISTOR	(T)
R864	D0GB102JA008	CHIP RESISTOR	(T)
R865	ERDS2TJ102T	CARBON RESISTOR	(T)
R866	D0GB102JA008	CHIP RESISTOR	(T)
R867	D0GB102JA008	CHIP RESISTOR	(T)
R868	D0GB473JA008	CHIP RESISTOR	(T)
R869	D0GB102JA008	CHIP RESISTOR	(T)
R870	D0GB102JA008	CHIP RESISTOR	(T)
R871	D0GB103JA008	CHIP RESISTOR	(T)
R872	D0GB103JA008	CHIP RESISTOR	(T)
R873	D0GB472JA008	CHIP RESISTOR	(T)
R874	D0GB104JA008	CHIP RESISTOR	(T)
R875	D0GB104JA008	CHIP RESISTOR	(T)
R876	D0GB104JA008	CHIP RESISTOR	(T)
R877	D0GB104JA008	CHIP RESISTOR	(T)
R886	D0GB473JA008	CHIP RESISTOR	(T)
R891	D0GB102JA008	CHIP RESISTOR	(T)
R892	D0GBR00JA008	CHIP RESISTOR	(T)
R895	ERDS2TJ333T	CARBON RESISTOR	(T)
R896	D0GB564JA008	CHIP RESISTOR	(T)
R901	ERDS2TJ152T	CARBON RESISTOR	(T)
R902	ERDS2TJ222T	CARBON RESISTOR	(T)
R903	ERDS2TJ272T	CARBON RESISTOR	(T)
R904	ERDS2TJ332T	CARBON RESISTOR	(T)
R905	ERDS2TJ472T	CARBON RESISTOR	(T)
R906	ERDS2TJ682T	CARBON RESISTOR	(T)
R912	ERDS2TJ152T	CARBON RESISTOR	(T)
R913	ERDS2TJ222T	CARBON RESISTOR	(T)
R914	ERDS2TJ272T	CARBON RESISTOR	(T)
R915	ERDS2TJ332T	CARBON RESISTOR	(T)
RJ01	D0GBR00JA008	CHIP RESISTOR	(T)
RJ02	D0GBR00JA008	CHIP RESISTOR	(T)
RJ03	D0GBR00JA008	CHIP RESISTOR	(T)
RJ04	D0GBR00JA008	CHIP RESISTOR	(T)
RJ722	D0GBR00JA008	CHIP RESISTOR	(T)
RJ724	D0GBR00JA008	CHIP RESISTOR	(T)
RJ738	D0GBR00JA008	CHIP RESISTOR	(T)
RJ739	D0GBR00JA008	CHIP RESISTOR	(T)
RX4	D0GB680JA008	CHIP RESISTOR	(T)
RX811	D0GBR00JA008	CHIP RESISTOR	(T)
RX815	D0GB103JA008	CHIP RESISTOR	(T)

Ref. No.	Part No.	Part Name & Description	Remarks
RX820	D0GB103JA008	CHIP RESISTOR	(T)
RX826	D0GB152JA008	CHIP RESISTOR	(T)
CAPACITOR			
C1	ECUV1H470JCV	CHIP CAPACITOR	(T)
C3	ECUV1H100DCV	CHIP CAPACITOR	(T)
C4	F1H1H102A013	CHIP CAPACITOR	(T)
C8	F1H1H102A013	CHIP CAPACITOR	(T)
C9	ECUV1E103KBV	CHIP CAPACITOR	(T)
C12	F1H1H6R0A735	CHIP CAPACITOR	(T)
C13	F1H1H102A013	CHIP CAPACITOR	(T)
C16	ECUV1E103KBV	CHIP CAPACITOR	(T)
C17	F2A1A101A334	ELECTROLYTIC CAPACITOR	(T)
C18	ECUV1C223KBV	CHIP CAPACITOR	(T)
C19	ECUV1E103KBV	CHIP CAPACITOR	(T)
C20	ECUVNC473KBV	CHIP CAPACITOR	(T)
C21	F1H1H102A013	CHIP CAPACITOR	(T)
C22	F1H1H102A013	CHIP CAPACITOR	(T)
C23	ECUV1H100DCV	CHIP CAPACITOR	(T)
C24	ECUV1E103KBV	CHIP CAPACITOR	(T)
C25	ECUVNC473KBV	CHIP CAPACITOR	(T)
C28	F2A1H3R3A386	ELECTROLYTIC CAPACITOR	(T)
C29	ECUV1E103KBV	CHIP CAPACITOR	(T)
C30	F2A1H1R0A386	ELECTROLYTIC CAPACITOR	(T)
C31	F2A1A101A334	ELECTROLYTIC CAPACITOR	(T)
C32	F2A1H1R0A386	ELECTROLYTIC CAPACITOR	(T)
C33	F2A1HR47A386	ELECTROLYTIC CAPACITOR	(T)
C35	F1H1H270A736	CHIP CAPACITOR	(T)
C36	ECUV1H330JCV	CHIP CAPACITOR	(T)
C37	F2A1A101A334	ELECTROLYTIC CAPACITOR	(T)
C38	F2A1E220A346	ELECTROLYTIC CAPACITOR	(T)
C39	F1H1C153A071	CHIP CAPACITOR	(T)
C40	F2A0J101A386	ELECTROLYTIC CAPACITOR	(T)
C41	F1H1C153A071	CHIP CAPACITOR	(T)
C42	F1H1H102A013	CHIP CAPACITOR	(T)
C43	F1H1H102A013	CHIP CAPACITOR	(T)
C44	F2A1H1R0A386	ELECTROLYTIC CAPACITOR	(T)
C45	F2A1H1R0A386	ELECTROLYTIC CAPACITOR	(T)
C46	F2A1H4R7A386	ELECTROLYTIC CAPACITOR	(T)
C47	ECUV1H101KBV	CHIP CAPACITOR	(T)
C48	F1H1H102A013	CHIP CAPACITOR	(T)
C49	ECUV1E103KBV	CHIP CAPACITOR	(T)
C50	ECUV1H101KBV	CHIP CAPACITOR	(T)
C51	ECUV1H101KBV	CHIP CAPACITOR	(T)
C67	F1H1H102A013	CHIP CAPACITOR	(T)
C68	ECUV1E103KBV	CHIP CAPACITOR	(T)
C103	F2A1HR47A386	ELECTROLYTIC CAPACITOR	(T)
C105	ECUV1H152KBV	CHIP CAPACITOR	(T)
C112	ECUVNC473KBV	CHIP CAPACITOR	(T)
C116	F2A1H4R7A386	ELECTROLYTIC CAPACITOR	(T)
C120	ECA1HMR22B	ELECTROLYTIC CAPACITOR	(T)
C121	F2A1C470A379	ELECTROLYTIC CAPACITOR	(T)
C123	F1H1H471A009	CHIP CAPACITOR	(T)
C126	F2A1E100A346	ELECTROLYTIC CAPACITOR	(T)
C128	F2A1C471A382	ELECTROLYTIC CAPACITOR	(T)
C132	F1H1H471A009	CHIP CAPACITOR	(T)
C203	F2A1HR47A386	ELECTROLYTIC CAPACITOR	(T)
C205	ECUV1H152KBV	CHIP CAPACITOR	(T)
C212	ECUVNC473KBV	CHIP CAPACITOR	(T)
C220	ECA1HMR22B	ELECTROLYTIC CAPACITOR	(T)
C223	F1H1H471A009	CHIP CAPACITOR	(T)
C227	F1H1H102A013	CHIP CAPACITOR	(T)
C228	F2A1C471A382	ELECTROLYTIC CAPACITOR	(T)
C232	F1H1H471A009	CHIP CAPACITOR	(T)
C300	F2A1E471A350	ELECTROLYTIC CAPACITOR	(T)
C301	ECA1EM332	ELECTROLYTIC CAPACITOR	(T)
C311	F2A0J101A386	ELECTROLYTIC CAPACITOR	(T)
C312	F2A1A101A334	ELECTROLYTIC CAPACITOR	(T)
C313	ECA0JM472	ELECTROLYTIC CAPACITOR	(T)
C316	F2A0J221A387	ELECTROLYTIC CAPACITOR	(T)
C319	F1H1H102A013	CHIP CAPACITOR	(T)
C321	F2A1E100A346	ELECTROLYTIC CAPACITOR	(T)
C323	ECUV1E103KBV	CHIP CAPACITOR	(T)
C324	F2A1C221A381	ELECTROLYTIC CAPACITOR	(T)
C325	F1H1H102A013	CHIP CAPACITOR	(T)

Ref. No.	Part No.	Part Name & Description	Remarks
C401	ECUVNC104KBV	CHIP CAPACITOR	(T)
C402	ECUVNC104KBV	CHIP CAPACITOR	(T)
C403	ECUVNC104KBV	CHIP CAPACITOR	(T)
C404	ECUVNC104KBV	CHIP CAPACITOR	(T)
C405	F1H1H102A013	CHIP CAPACITOR	(T)
C406	F1H1H102A013	CHIP CAPACITOR	(T)
C407	F1H1H102A013	CHIP CAPACITOR	(T)
C408	F1H1H102A013	CHIP CAPACITOR	(T)
C409	F2A1H4R7A386	ELECTROLYTIC CAPACITOR	(T)
C410	F2A1H4R7A386	ELECTROLYTIC CAPACITOR	(T)
C411	F2A1H4R7A386	ELECTROLYTIC CAPACITOR	(T)
C412	F2A1H4R7A386	ELECTROLYTIC CAPACITOR	(T)
C413	ECUV1H332KBV	CHIP CAPACITOR	(T)
C414	ECUV1H332KBV	CHIP CAPACITOR	(T)
C415	F2A1HR47A386	ELECTROLYTIC CAPACITOR	(T)
C416	F2A1HR47A386	ELECTROLYTIC CAPACITOR	(T)
C417	ECUVNC473KBV	CHIP CAPACITOR	(T)
C418	ECUVNC473KBV	CHIP CAPACITOR	(T)
C419	ECA1HMR33B	ELECTROLYTIC CAPACITOR	(T)
C420	F2A1A101A334	ELECTROLYTIC CAPACITOR	(T)
C421	F1H1H221A009	CHIP CAPACITOR	(T)
C422	F1H1H221A009	CHIP CAPACITOR	(T)
C423	F2A1H4R7A386	ELECTROLYTIC CAPACITOR	(T)
C426	F2A1C470A379	ELECTROLYTIC CAPACITOR	(T)
C431	F1H1H221A009	CHIP CAPACITOR	(T)
C432	F1H1H221A009	CHIP CAPACITOR	(T)
C602	F1H1H102A013	CHIP CAPACITOR	(T)
C604	F1H1H102A013	CHIP CAPACITOR	(T)
C611	F1H1H220A736	CHIP CAPACITOR	(T)
C612	F1H1H220A736	CHIP CAPACITOR	(T)
C613	ECUV1H330JCV	CHIP CAPACITOR	(T)
C615	F1H1H102A013	CHIP CAPACITOR	(T)
C623	F1H1H220A736	CHIP CAPACITOR	(T)
C624	F1H1H220A736	CHIP CAPACITOR	(T)
C625	ECUVNC104KBV	CHIP CAPACITOR	(T)
C701	F1H1H102A013	CHIP CAPACITOR	(T)
C801	ECUV1E103KBV	CHIP CAPACITOR	(T)
C802	F2A0J101A386	ELECTROLYTIC CAPACITOR	(T)
C803	ECUV1E103KBV	CHIP CAPACITOR	(T)
C804	F1H1H102A013	CHIP CAPACITOR	(T)
C806	F1H1H220A736	CHIP CAPACITOR	(T)
C808	F1H1H270A736	CHIP CAPACITOR	(T)
C809	F1H1H102A013	CHIP CAPACITOR	(T)
C810	F1H1H102A013	CHIP CAPACITOR	(T)
C811	F1H1H180A736	CHIP CAPACITOR	(T)
C812	F1H1H220A736	CHIP CAPACITOR	(T)
C813	F1H1H102A013	CHIP CAPACITOR	(T)
C816	F2A1H1R0A386	ELECTROLYTIC CAPACITOR	(T)
C817	F2A1H2R2A386	ELECTROLYTIC CAPACITOR	(T)
C818	F3F1C105A004	TANTALUM CAP.	(T)
C819	F1H1H102A013	CHIP CAPACITOR	(T)
C820	F3F1C105A004	TANTALUM CAP.	(T)
C821	F3F1C105A004	TANTALUM CAP.	(T)
C823	F1H1H221A009	CHIP CAPACITOR	(T)
C824	F1H1H221A009	CHIP CAPACITOR	(T)
C825	F1H1H221A009	CHIP CAPACITOR	(T)
C826	F1H1H102A013	CHIP CAPACITOR	(T)
C827	F1H1H221A009	CHIP CAPACITOR	(T)
C831	F1H1H102A013	CHIP CAPACITOR	(T)
C833	ECUV1E103KBV	CHIP CAPACITOR	(T)
C835	ECUV1E103KBV	CHIP CAPACITOR	(T)
C836	F2A1H1R0A386	ELECTROLYTIC CAPACITOR	(T)
C839	ECA1HMR33B	ELECTROLYTIC CAPACITOR	(T)
C840	ECUV1E103KBV	CHIP CAPACITOR	(T)
C842	ECUV1E103KBV	CHIP CAPACITOR	(T)
C843	ECUV1E103KBV	CHIP CAPACITOR	(T)
C844	ECUV1E103KBV	CHIP CAPACITOR	(T)
C845	ECUV1E103KBV	CHIP CAPACITOR	(T)
C846	ECUV1E103KBV	CHIP CAPACITOR	(T)
C847	ECUV1E103KBV	CHIP CAPACITOR	(T)
C851	F2A1E100A346	ELECTROLYTIC CAPACITOR	(T)
C868	F1H1H102A013	CHIP CAPACITOR	(T)
C869	ECUV1E103KBV	CHIP CAPACITOR	(T)
C874	ECUV1E103KBV	CHIP CAPACITOR	(T)

Ref. No.	Part No.	Part Name & Description	Remarks
C880	ECUV1E103KBV	CHIP CAPACITOR	(T)
C881	ECUV1E103KBV	CHIP CAPACITOR	(T)
C882	ECUV1E103KBV	CHIP CAPACITOR	(T)
C895	ECUVNA1052FV	CHIP CAPACITOR	(T)
C897	F1H1H221A009	CHIP CAPACITOR	(T)
C898	F1H1H102A013	CHIP CAPACITOR	(T)
C899	F1H1H102A013	CHIP CAPACITOR	(T)
C901	F1H1H221A009	CHIP CAPACITOR	(T)
C902	F1H1H221A009	CHIP CAPACITOR	(T)
C903	F1H1H102A013	CHIP CAPACITOR	(T)
CX57	ECUV1H101KBV	CHIP CAPACITOR	(T)
CX715	F1H1H221A009	CHIP CAPACITOR	(T)
CX716	F1H1H221A009	CHIP CAPACITOR	(T)
CX719	F1H1H221A009	CHIP CAPACITOR	(T)
CX721	F1H1H221A009	CHIP CAPACITOR	(T)
CX815	F1H1H102A013	CHIP CAPACITOR	(T)
CX823	F1H1H221A009	CHIP CAPACITOR	(T)
CX825	F1H1H221A009	CHIP CAPACITOR	(T)
CX826	F1H1H102A013	CHIP CAPACITOR	(T)
CX827	F1H1H221A009	CHIP CAPACITOR	(T)