

Service Manual

FM-MW-SW1-SW2 Portable Radio

Model No. **RF-800UEE**
RF-800ULJ

Product Color : (K)... Black Type



RF-800U

Note: Please use this manual together with service manual
Model No.[RF-800UGA-K, Order No. PSG1210003CE]

⚠ 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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1 Difference Points

1.1. Mechanical and Electrical Replacement Part List

Ref. No.	Parts No.			Parts name & Description	Qty	Remarks
	RF-800UGA-K	RF-800UEE-K	RF-800ULJ-K			
14	RHWN0002	-	-	WASHER	1	DELETE
18	RKMN0028-K	RKMN0028-K2	RKMN0028-K2	WOODEN CASE ASS'Y	1	
19	RKSN0018A-K	RFKHF800EE-K	RFKHF800LJ-K	BACK CABINET	1	
A1	RQT9727-2G	RQTN0170	RQTN0167	O/I BOOK	1	
P1	RPGN0126-1	RPGN0136	RPGN0126-1	PACKING CASE	1	
PCB1	REPN0070AA	REPN0070CA	REPN0070AA	TUNER P.C.B.	1	(RTL)
PCB2	REPN0070AB	REPN0070CB	REPN0070AB	USB P.C.B.	1	(RTL)
PCB3	REPN0070AC	REPN0070CC	REPN0070AC	BATTERY P.C.B.	1	(RTL)
PCB4	REPN0070AD	REPN0070CD	REPN0070AD	JACK P.C.B.	1	(RTL)
PCB5	REPN0070AE	REPN0070CE	REPN0070AE	SUPPORT P.C.B.	1	(RTL)
D1	B0EAKM000103	RLIN4003S-G	RLIN4003S-G	DIODE	1	
D108	B0EAKM000103	RLIN4003S-G	RLIN4003S-G	DIODE	1	
L33	ERJ3GEY0R00V	J0JBC0000026	ERJ3GEY0R00V	FILTER	1	
L103	ERJ3GEY0R00V	J0JBC0000025	ERJ3GEY0R00V	FILTER	1	
L104	ERJ3GEY0R00V	J0JBC0000025	ERJ3GEY0R00V	FILTER	1	
L105	ERJ3GEY0R00V	J0JBC0000025	ERJ3GEY0R00V	FILTER	1	
R3	ERJ3GEYJ330V	ERJ3GEYJ560V	ERJ3GEYJ560V	56 1/10W	1	
R4	ERJ3GEYJ560V	ERJ3GEYJ680V	ERJ3GEYJ680V	68 1/10W	1	
R125	ERJ3GEYJ271V	ERJ3GEYJ331V	ERJ3GEYJ331V	330 1/10W	1	
C3	F1H1H4R0A839	-	-	4pF 50V	1	DELETE
C20	F1H1H200A004	F1H1H2200008	F1H1H2200008	20pF 50V	1	
C24	F1H1H180A841	F1H1H220A841	F1H1H220A841	22pF 50V	1	

IPSG1307

Service Manual

FM-AM Portable Radio

Model No. **RF-800UGA**
RF-800UGS
RF-800ULJ
RF-800UEE

Product Color : (K)...Black Type



Subject : Tuner IC (IC1) and Varicon (VC1) Change

Please file and use this supplement manual together with the service manual for
Model No. RF-800UGA/GS-K, Order No. PSG1210003CE
Model No. RF-800UEE1-K, Order No. PSG1307018AE

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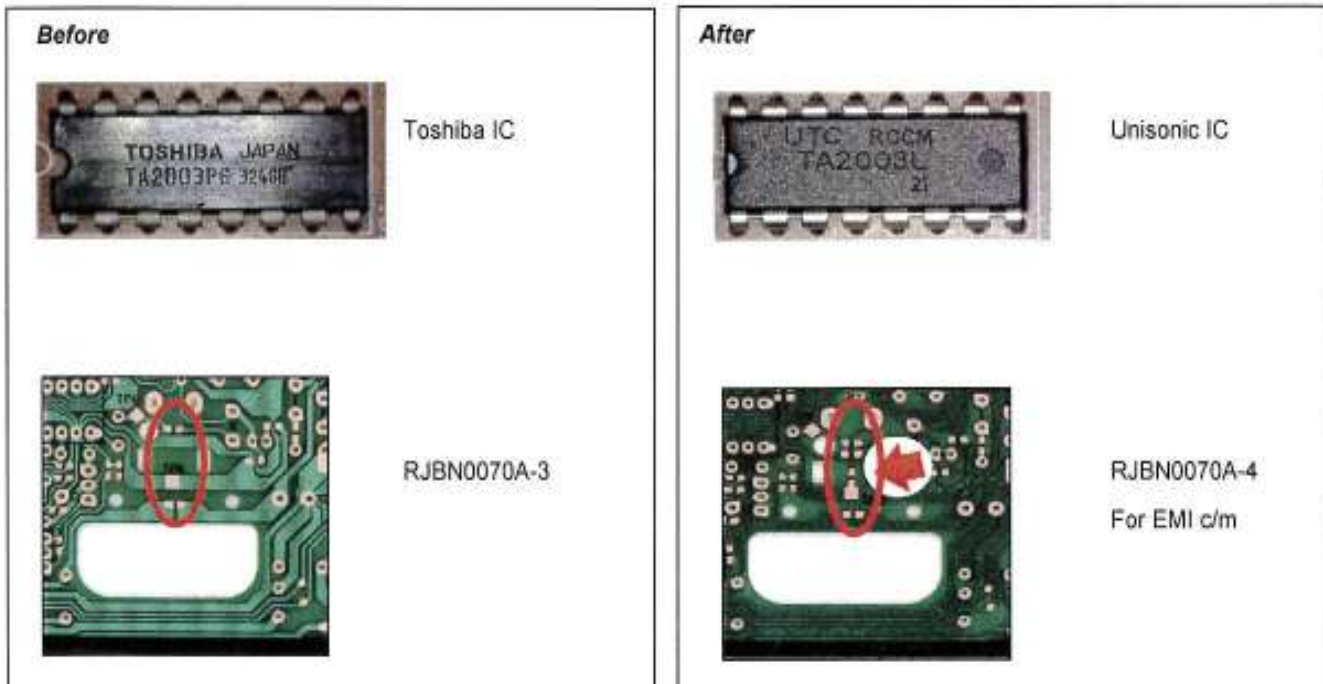
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1 Notes

Background:

- Tuner IC (IC1) change due to design improvement. See diagram for change content

Change Content :



Varicon (VC1) change due to design improvement

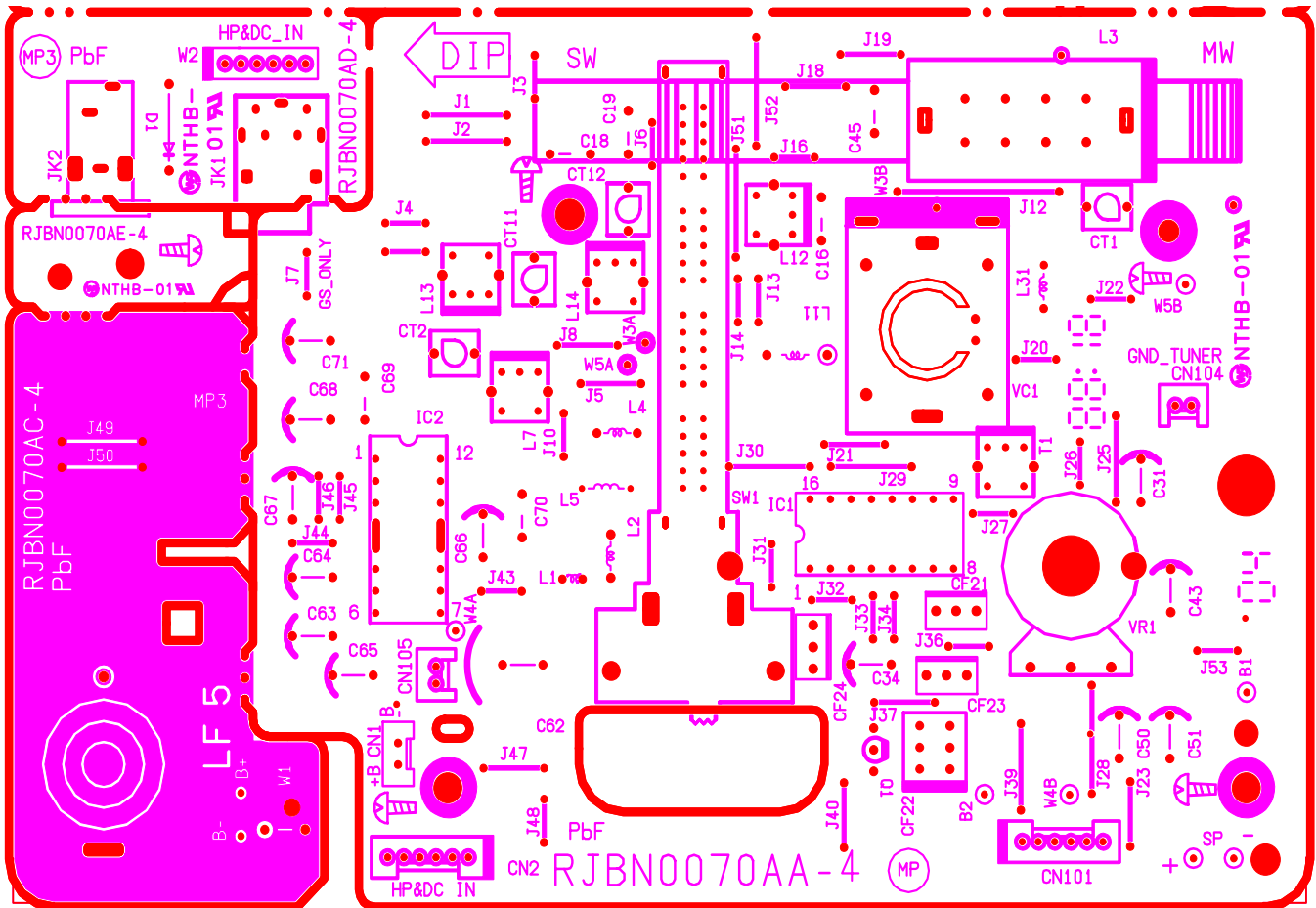
Due to these changes, there are modification to original circuit and this supplement described updates to section of Printed circuit board, Schematic Diagrams and Electrical replacement parts list.

- Below is the suffix number change for the implementation.

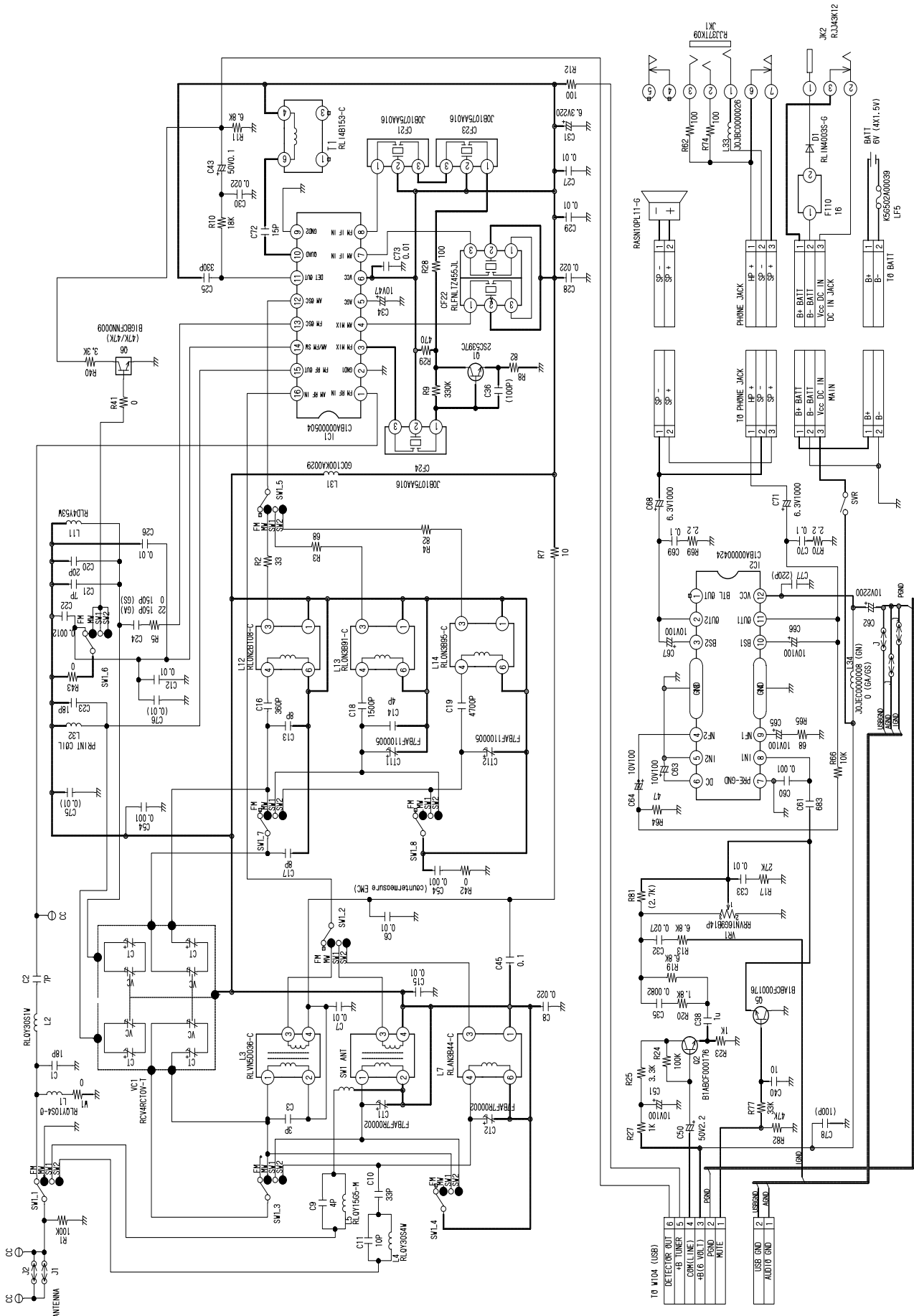
2 The details of the part changes

Below shows the Tuner P.C.B Diagram

2.1. Tuner P.C.B Diagram



2.2. Schematic Diagram



3 Replacement Parts List

Please revise the original parts list in the Service Manual to conform to the change(s) shown herein.

If new part numbers are shown, be sure to use them when ordering parts.

Please file and use this manual together with the original service manual.

3.1. For Tuner IC (IC1) Change

Ref. No.	Parts No.		Parts name & Description	QTY	Remarks
	Before	After			
PCB	REPN0070AA	REPN0070DA	Tuner P.C.B	1	CHANGE (FOR GA/LJ)
PCB	REPN0070BA	REPN0070EA	Tuner P.C.B	1	CHANGE (FOR GS)
PCB	REPN0070CA	REPN0070FA	Tuner P.C.B	1	CHANGE (FOR EE1)
R12	ERJ3GEYJ151V	ERJ3GEYJ101V	100 1/10W	1	CHANGE
Q6		B1GBCFNN0009	TRANSISTOR	1	ADD
R40		ERJ3GEYJ332V	3.3K 1/10W	1	ADD
R41		ERJ3GEY0R00V	0 1/10W	1	ADD
R42		ERJ3GEY0R00V	0 1/10W	1	ADD
C24	F1H1H2200008	F1H1H151A792	150pF 50V	1	CHANGE (FOR GA/LJ/EE1)
C24	F1H1H270A004	F1H1H471A219	470pF 50V	1	CHANGE (FOR GS)
IC1	C1BA00000481	C1BA00000504	IC	1	CHANGE
C28	F1J1E105A008	F1H1H223A219	0.22uF 50V	1	CHANGE
R5	ERJ3GEYJ470V	ERJ3GEYJ220V	22 1/10W	1	CHANGE

T.I No. EX-4914, EX4946 (For Tuner IC Change) (For factory reference purpose only)

3.2. For Varicon (VC1) Change

Ref. No.	Parts No.		Parts name & Description	QTY	Remarks
	Before	After			
VC1	RCV4RCT0V-T	F6Z4DDBB0002	VARICON	1	CHANGE
R3	ERJ3GEYJ560V	ERJ3GEYJ680V	68 1/10W	1	CHANGE
R4	ERJ3GEYJ680V	ERJ3GEYJ820V	82 1/10W	1	CHANGE
C3	F1H1H4R0A839	F1H1H3R0A839	3pF 50V	1	CHANGE
C13	F1H1H150A841	F1H1H8R0A016	15pF 50V	1	CHANGE
C21	F1H1H5R0A839	F1H1H7R0A840	7pF 50V	1	CHANGE (FOR GA/LJ/EE1)
C21	F1H1H120A860	F1H1H100A831	10pF 50V	1	CHANGE (FOR GS)
C54		F1H1H102A219	1000pF 50V	1	ADD
R43		ERJ3GEY0R00V	0 1/10W	1	ADD

T.I No. EX-4937 (For Varicon Change) (For factory reference purpose only)

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