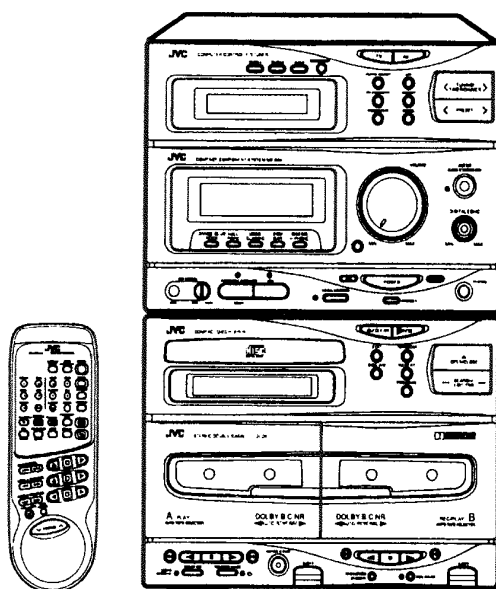


JVC**SERVICE MANUAL****COMPACT COMPONENT SYSTEM****CA-S60BK (UP)****(Unit No. RX-S60BK(UP)/XT-S60BK(UP))****Area Suffix**

UP .. Korea

U ... Universal Type



This manual shows the differences between CA-S60BK(UP) and CA-S60BK.
 When servicing, refer to the manual of CA-S60BK(UP) and CA-S60BK(NO.20467).

Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).

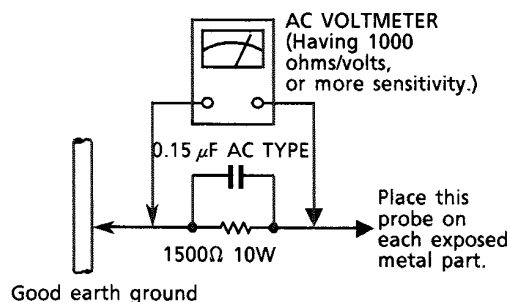
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor.

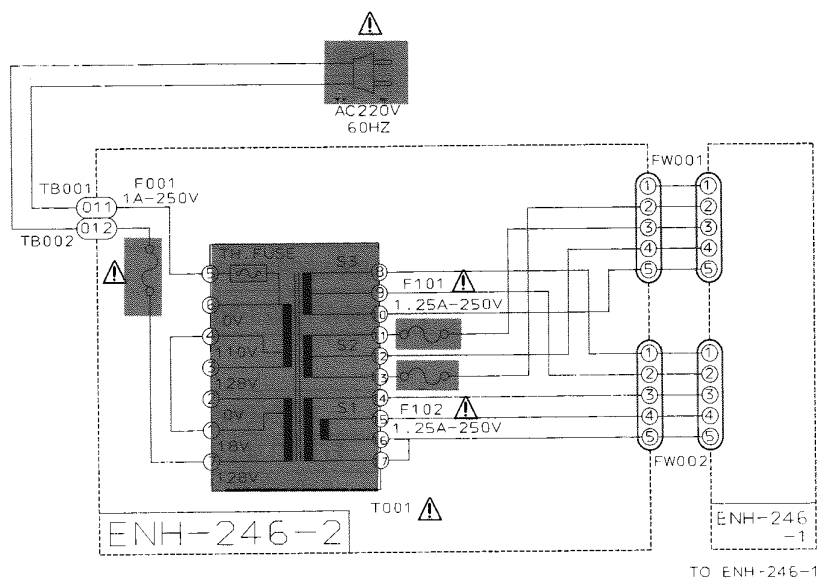
Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Schematic Diagram (Power Primary Section)



NOTE : When replacing the parts in the shaded area (■) and those marked with ⚠ , be sure to use the designated parts to ensure safety. This is the standard circuit diagram. The design and contents are subject to change notice.

Differences between CA-S60BK(UP) and CA-S60BK

< RX-S60BK(UP) >

General exploded parts list

Page	⚠	Item	Parts Name	RX-S60BK	RX-S60BK(UP)	Q'ty
4-3		1	FRONT PANEL ASSY	EFP-RXS60BKU(S)	EFP-RXS60BKUP(S)	1
		1-1	FRONT PANEL	E102684-016SM	E102684-021SM	1
		1-3	WINDOW SCREEN	E308423-008SM	E308423-010SM	1
		7	PUSH BUTTON	E207794-001SM	E207794-003SM	1
		10	PUSH BUTTON ASSY	E207858-001SM	E207858-006SM	1
	⚠	31	FUSE	QMF51E2-2R0J1	QMF51E2-1R0J1	1
		40	REAR PANEL	E207785-025SM	E207785-045SM	1
	⚠	42	POWER CORD	QMP7520-200	EMP7000-200	1
	⚠	43	FUSE	QMF51E2-1R0J1	NOT USE	


Printed Circuit Ass'y Parts List

■ ENH-246 □ Main& Power Primary PC Board Ass'y


Page	⚠	Item	Parts Name	RX-S60BK	RX-S60BK(UP)	Q'ty
		--	P.C. Board	--	EMW10321-403	1
4-5		R045	CARBON RES	QRD161J-102(1KΩ)	NOT USE	
		R046	CARBON RES	QRD161J-102(1KΩ)	NOT USE	
		R047	CARBON RES	QRD161J-102(1KΩ)	NOT USE	
		--	FUSE LABEL	NOT USE	E61380-036	1
		--	FUSE LABEL	NOT USE	E61380-034	2
	⚠	S001	ROTARY SWIT	QSR8001-E01U	NOT USE	
		--	VINYL WIRE	NOT USE	QWE888-08RR	1
		--	VINYL WIRE	QWE886-20RR	NOT USE	
		--	VINYL WIRE	QWE888-24RR	NOT USE	
		--	VINYL WIRE	QWE881-20RR	NOT USE	
		--	VINYL WIRE	QWE884-20RR	NOT USE	
		--	VINYL WIRE	QWE883-20RR	NOT USE	
		--	VINYL WIRE	QWE882-20RR	NOT USE	
		FT003	FUSE HOLDER	VMZ0087-001Z	NOT USE	
		FT004	FUSE HOLDER	VMZ0087-001Z	NOT USE	

⚠ :SAFETY PARTS


■ ENA-136  Tuner PC Board Ass'y

Page		Item	Parts Name	RX-S60BK	RX-S60BK(UP)	Q'ty
4-6		--	P.C. Board	--	EMW10309-004A	1

■ ENB-190  Display & Mic Mixing PC Board Ass'y


Page		Item	Parts Name	RX-S60BK	RX-S60BK(UP)	Q'ty
4-8		--	P.C. Board	--	EMW10424-003	1

■ ENC-113  Selector, Amplifier & Regulator PC Board Ass'y


Page		Item	Parts Name	RX-S60BK	RX-S60BK(UP)	Q'ty
4-11		--	P.C. Board	--	EMW10323-102	1

< XT-S60BK(UP) >


General exploded parts list

Page		Item	Parts Name	XT-S60BK	XT-S60BK(UP)	Q'ty
2-3		1	FRONT PANEL ASSY	EFP-XTS60RBKE(S)	EFP-XTS60BKUP(S)	1
		1-1	FRONT PANEL	E102686-005SM	E102686-007SM	1
		1-2	WINDOR SCREEN	E308430-001SM	E308430-003SM	1
		2	CASSETTE LID ASSY(A)	E207803-006SA	E207803-008SA	1
		2-1	CASSETTE LID (A)	E207803-006SM	E207803-008SM	1
		3	CASSETTE LID ASSY(B)	E207806-006SM	E207806-008SM	1
		8	PUSH BUTTON	E207796-001SS	E207796-003SS	1
		9	PUSH BUTTON	E207859-004SM	E207859-006SM	1
		49	REAR PANEL	E207809-017SM	E207809-031SM	1


■ ENN-371  CD PC Board Ass'y

Page		Item	Parts Name	XT-S60BK	XT-S60BK(UP)	Q'ty
2-10		--	P.C. Board	--	EMW10320-004	1
		C984	CER.CAPACITOR	NOT USE	QCS31HJ-680Z	1


■ ENJ-073  Display & Mic Mixing PC Board Ass'y

Page		Item	Parts Name	RX-S60BK	RX-S60BK(UP)	Q'ty
2-14		--	P.C. Board	--	EMW10325-005	1

Accessories List

Page		Item	Parts Name	CA-S60BK	CA-S60BK(UP)	Q'ty
4-14		1	INSTRUCTION BOOK	E30580-2092B	E30580-2180A	1
		2	POLY BAG	QPGA025-03505B	QPGA025-03505	1
		4	SAFETY SHEET	E43486-519A	E43486-628	1
		12	WIRE-LESS REMOTE CONTROL	RM-SES60U	RM-SES60UP	1
		--	WARRANTY CARD	NOT USE	BT-56004-1K	1

Packing Part Numbers

Page		Item	Parts Name	CA-S60BK	CA-S60BK(UP)	Q'ty
4-15		1	PACKING CASE	E300383-098SM	E208339-001SM	1
		5	ENVELOPE	E300196-103B	E408322-001	1
		7	ENVELOPE	E300196-129B	E408322-002	1

 : SAFETY PARTS

JVC

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