Service Manual

Portable Stereo Component System

Radio Cassette

RX-CS730

Colour

(K) Black Type



Area		
Suffix for Ma.	Area	Cobur
:00)	Weig, Latin America. Middle Base and Philips.	* 7K:
(GC)	Saudi Arabia, Kuwa t Regagora, Malaysia.	

TAPE SECTION: SG20 MECHANISM SERIES

Specifications

■ RADIO

Proquency range FM 99 - 108 M Iz MW 530 - 1805 MHz SW1 2.3 - 7.0 MHz 5W2 7.0 × 22.0 MHz Intermediate frequency FM 10.7 MHz Alai 400 c lz Sensitivity HM 17 dB : 50 mW MYZ 54 dB / 50 mW SWi 85 dB / 50 mW 77.087.50 mW SW2

■ TAPE RECORDER

■ TAPE RECORDER	
Traca: system	4 ୩୯୬ ମଧ୍ୟ ଅନ୍ୟ ଅନ୍ୟ
Recording system	AC bias
Erasing system	Марты.
Mornitor eyestern	Ya fadle, seutri, meriller
Precidency regige	
Normal	60 14300 Hz

■ GENERAL

Power requirement AC 110-127 V / 220-213 V, 60 / 60 Hz Pewer conscippion of riw Battery 12 V (Eight B207 | B20 ID, UM-1 batteries) De not use rephangeau eitype bylgerigs. DC IN 17 - 15.2 V Power onlight 00.99 JuPMPD 27 W ... RMS (max.) Speakers 2 Weefers; 12 cm 2 Tweeters: Tuckmi Jacks Curput SPIAKLHS: 811 Носформатся : 82.0. Dimensions (WxHxD) 581 x 263 y 271 mm Main unt : 28% x 25% x 221 mm Speaker box ; 188 x 824 x 234 mm Weight 4.0 kg without batteries

Nates:

Specifications are subject to interiors william, include.
 Weight and dimensions are approximate.

A WARNING

This service information is designed for experience repair cotin dans only and is not designed for use by the general public. It does not concurred an action at the risks contain warnings proceed by a estroid so more or recoined only by eaperled by a estroid, should be so more or recoined only by eaperled by a estroid. Any attendant service of repair the product or products death with in this service information by survivie else could result in service. They are death



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		 PACKAGING 	

■ BEFORE USE

JFOR (GC) area)

Feisure to disconnect the metric cold before digitaling the voltage selector.

Use a minus; i) strown front to set (he routage so cotor you the results) for the voltage coding for the greet is which the only will be need, (if the power supply in your area is 117V or 120V, act to the mostly position).

Note that if is unit will be secously flan aged if this soong is not markcorrectly (There is no voltage selector for some contracts; the contact voltage is already sold.)

■ Operation Checks

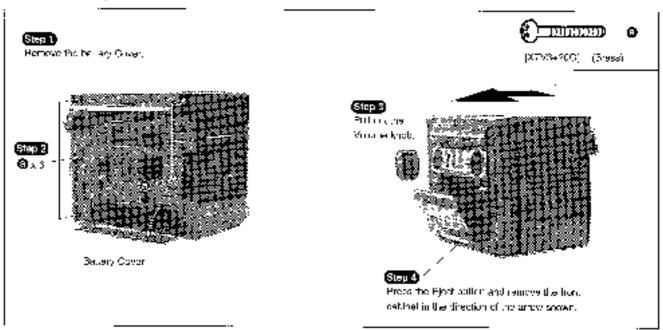
" ATTENTION SERVICER ". Some interest component may have shape edges. Deletion when disease noting and servicing.

- This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- For reassembly after operation checks or replacement, reverse the respective procedures.Special reassembly procedures are described only when required.
- 3. Solect items from the following index when checks or replacement are required.

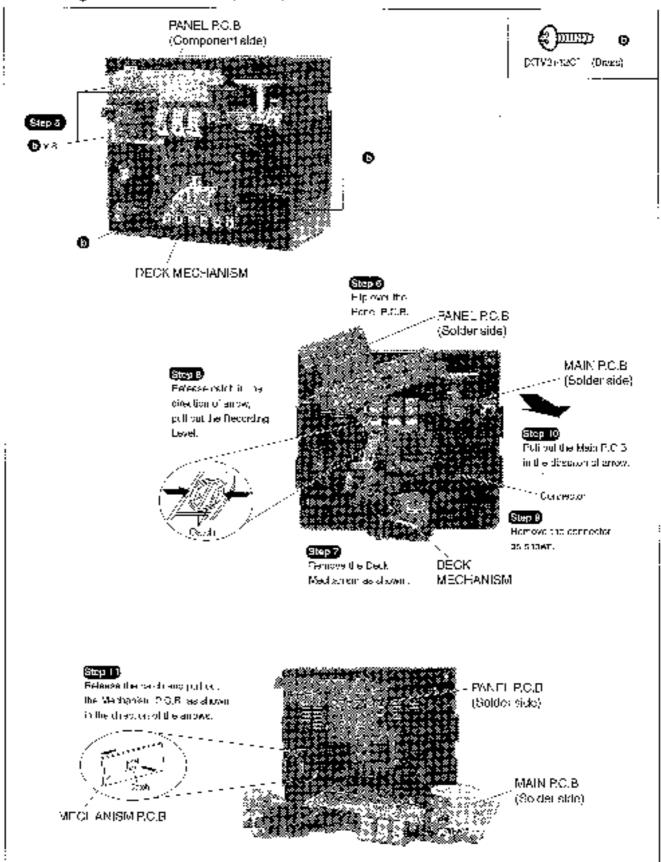
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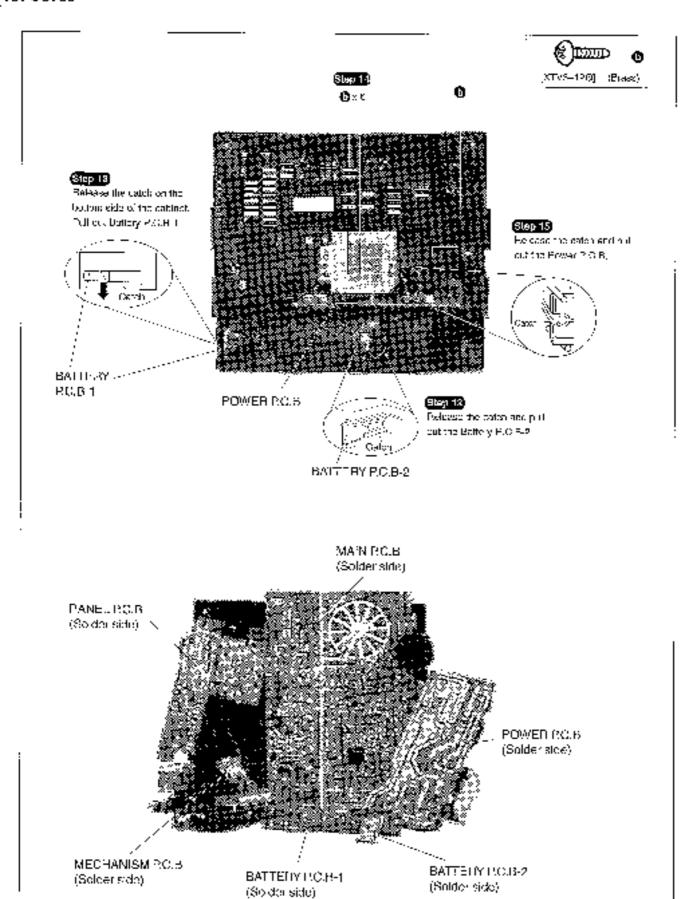
		caye
•	Disassembly of the Front Cabinet	2
•	Checking Procedure for Main, Panel, Mechanism. Power And Battery P.C.B	3 - 4

■ Disassembly Of The Front Cabinet



■ Checking Procedure For Main, Panel, Mechanism And Power P.C.B.





■ Measurements and Adjustments

Tuner Section

ALIGNMENT INSTRUCTIONS

PFAD CAHEHULL	Y BEHOME ATTEMPTING ALIGNMENT	
DC.	 Schi-MIWCDS/SP switch to MQNQ/j. 	

- 1. Per power source volume to 127 Dr
- 2. Ser volunie control to maiami.m.
- 2. Set band by 5th to FM, MW, EW1 on FW9.
- 4. Set salarrar switch to PADIC.

- 9, Set FINE 7UN NG to center.
- Output of signal generator should be no higher than necessary to obtain an output reading.

SIGNAL GENE SWEET GEN		DARIO DIAL SETTING	INDICATOR (FLECTRONIC VOLUMETEE or	ABJUSTMENT (Siden in Fig.1)	HEMAR(S
CONMECTIONS	PHEQUENCY	S-11 413	ÓSCILLGSCOPE)	\3 i ii Fig.1,	
Fashrum a loop of navaret gurra (4 wire and redicter algue) tilo loop of repaiver.	455 kHz 5056 Mod. a. 400Hz	Point at non- intercerces (an- about 800kHz)	Handphopee, k (388) - Turn follower year dean in 1892 on the arm (306), as well to protect the increasing and area.	18 (AMILI)	- Adjust for maximum bulpu
MW-RF ALIG	NMENT				
	(GU)511 k lz (GC) - ,514 kHz + 3 kHz	Turung capacitor fully closed.		18 (WW 080, Sat)	Adust for maximum outsu
	(GL)1656 kHz (GC)1686 kHz = 5 kHz	Turing sepecitor tally opened.	•	CT2 IMW ANT Trimines)	Artist for maximum (40.00
1	550 kHz	Lune to signed	•	[*1 L3 (MW ANT. Co)	Adjust for maximum patpu Adjust LS-1 Ly moving coil toNon a only the famile co
•	1500 kHz	Tune to signed	•	CT2 (MW ANT.Trimmoi)	Adjust for maximum output
rt Ex artenne wil vi	telgrico ratta xex. Di	ing all premont.			· · · · · · · · · · · · · · · · · · ·
SW1-RF ALK	GNMENT				
•	2.248 MHz	lurang exportion latly closed.		LS (SW1 OSC, Co1)	Adjust for maximum sulput
	7.231 MHz	Tuning experitor luby opened.	'	V01-3 (8W1 ANT V01)	Adjust for maximum culpus
	>3 MHz	Tima to signal		[1] .3-0 (SW: ANT Gol)	Adjust for measurum putpur Adjust Lo-2 by moving coil bob mraking the famile coil
	7.0 MHz	Ture to agree		9512 (SWLANT 951)	- Adjust for proxemum sufpu

SIGNAL CENE SWEEF GEN		RANIO DIAL	INDICATOR SELECTIONIC VCLIMETED OF	ADJUSTMENT	REMARKS	
CONNECTIONS	FREQUENCY	SETT.NS	090 (10605°°)	(Slaten In Fig.1)		
Connect to test part 191 through permit	6.84 MF7	Firming dependition fully risk end.	Headphore dock (\$2.2) (Further templages determined in Right 211 Jean Lander L	L10 (8W7 OSC, Coll)	Al(tet ka maxkaani ooba	
capachar (10ph). Negative side to test point. TD2	39.80 MHz	Taning departion halfy opened		0 5 (SW2 OSC, (nmmor)	Adjust for meeting to pulpe	
	70 MHz	Tone to signa	.1	7 (SWZ ANT, Coll)	Adjust for minath im occou	
<u> </u>	MENT					
Connect to test estat 1922 th suigh serumis conseiter. Kepar ve sate to test point 1922.	10.7 MHz (Sweep)	Portublinos Cerference.(cm/ appel 90MHz)	Colmed, veit, sing. If stope to test point IES - Negative side to test local IES	T* (FM 18, IFT)	Waveform is shown in Fig.	
r.				Tu : FM 200 TM	Waveforth a shown in Fig.	
◆ FM - RF ALIG	NMENT		· <u></u>			
Councet to test point. 1911 Teorgh FM	, (90),86.2 MAz (00),.6706 MHz ±30 KHz	Veriable Cépecitor fully dissect	Headphone work (820) Franchis to play to chow a subject work to play to choose the base the last work of the play to the manual programmy.	L2 IFM 080, CVI;	Adjust for maximum dutput [12]	
dumniv anterno. Negative side to test point \$150 .	(GJ)109.2 MHz (G/C)109.3 MHz ± 70 kHz	Variable capacitor fully opened.		V01-1 (FM 036, V01)	,	
	06 MHz	Tune to signal	1	901-2 (EMIANT - 901)	Aftist for next number of	

Cassette Deck Section

ALIGNMENT INSTRUCTIONS

READ CATEFULLY BEFORE ATTEMPTING ALIGNVENT

Measuring Instrumente

Digital transplancy country

Measuring Conditions

- Meke sore the beads are closs.
- Make sure the capstan and prossure miles ere clear.

Test Tape

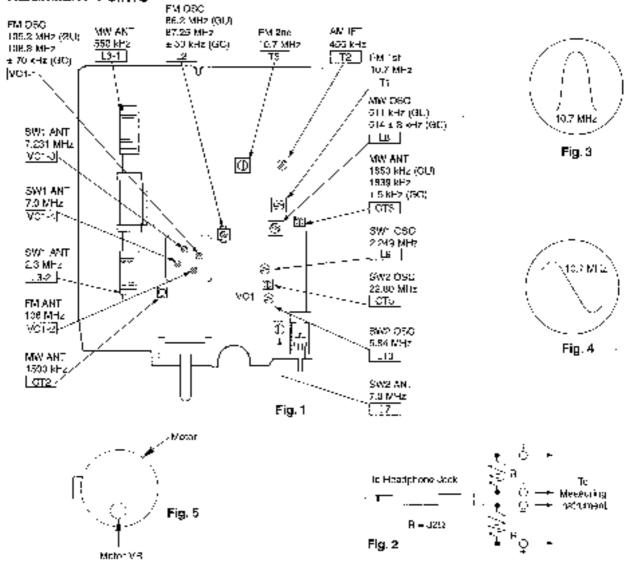
Topo speed adjustment (SIXI iz. - 10 dB) : DZZ::WAT.

Note: No Azimuth Load Alignmont is required 4.16 to Azteu Load is used in the besorth machanism.

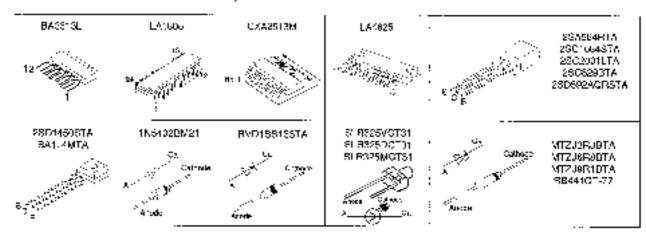
• TAPE SPEED ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRON COCUNTED	AD UISTMENT	SPEC FICATION	REMARKS
G22099F	Escadahene Jack (SCO) For row te playes describe to 55 and to 100 to 10	Meter VH TAS allown in Fig. 6)	5000 - 90 H;	. 1. Set tille unit to TAPL* posotion. 2. Pleyback the middle part of the fast lape. (CZZOWAT). 3. Adjust metal VB for re-pulled \$600 = 90 Hz shown on frequency counter.

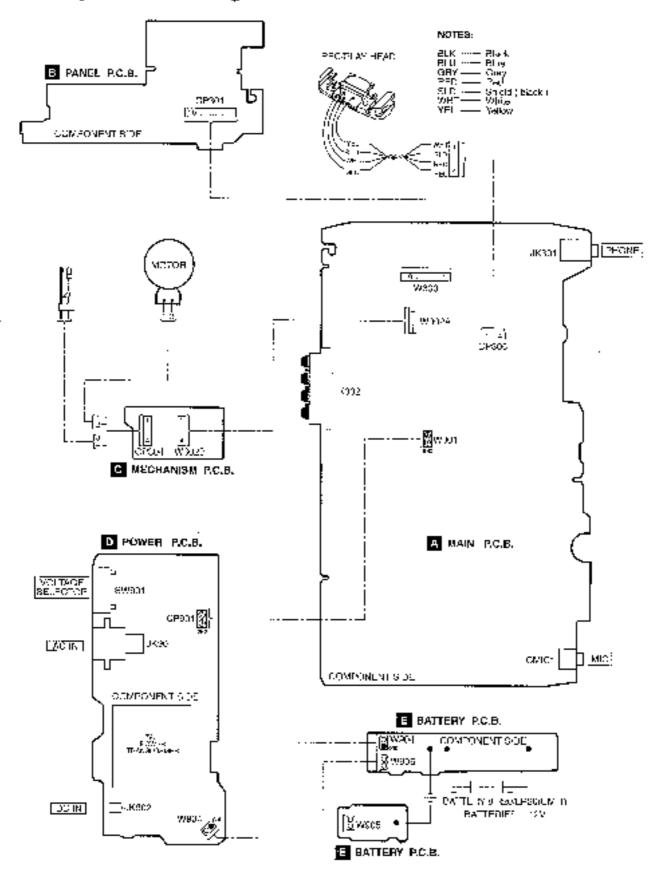
ALIGNMENT POINTS



■ Terminal Guide of IC's , Transistors and Doides



■ Wiring Connection Diagram



■ Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology)

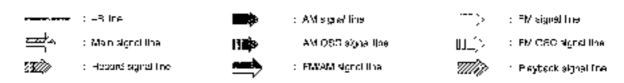
Note:

- 5352 Preset loqualizer switch (VOCAL) i • SW3 EAND celes: switch: - 5353 Praset equalizer switch (FLAT): TrP exitor ÷ 30/4 i - 5354 Preset equalizer sweet (CLEAR) i FM MCDE/OR switch · 3W5 - 5355 Preset equation switch (SOF) 30/901 Vidizija saladur ewitcii i - 5356 Preset equalizer switch (XDS) **₽VH301** Valume control VA. - 5W1 SILECTOR switch

· Battery current :

Vol. min.390 mA (FM): Vol. staw. 583 mA (FM): 390 mA (AV): 595 mA (AM): 74 dB-m 30% Mbb)
458 mA (TAPE): 972 mA (TAPE): 458 mA (TAPE): 315 f z , odb

+ Elgnal line



• The voltage value and waveforms are the reference voltage of this unit measured by DC diestronic voltages (high imperance) and decideospe on the basis of chassis.

Accordingly, there may also some effort in voltage values and waveforms depending upon the internal encodance of the tester or the measuring until

· Importance safety notice:

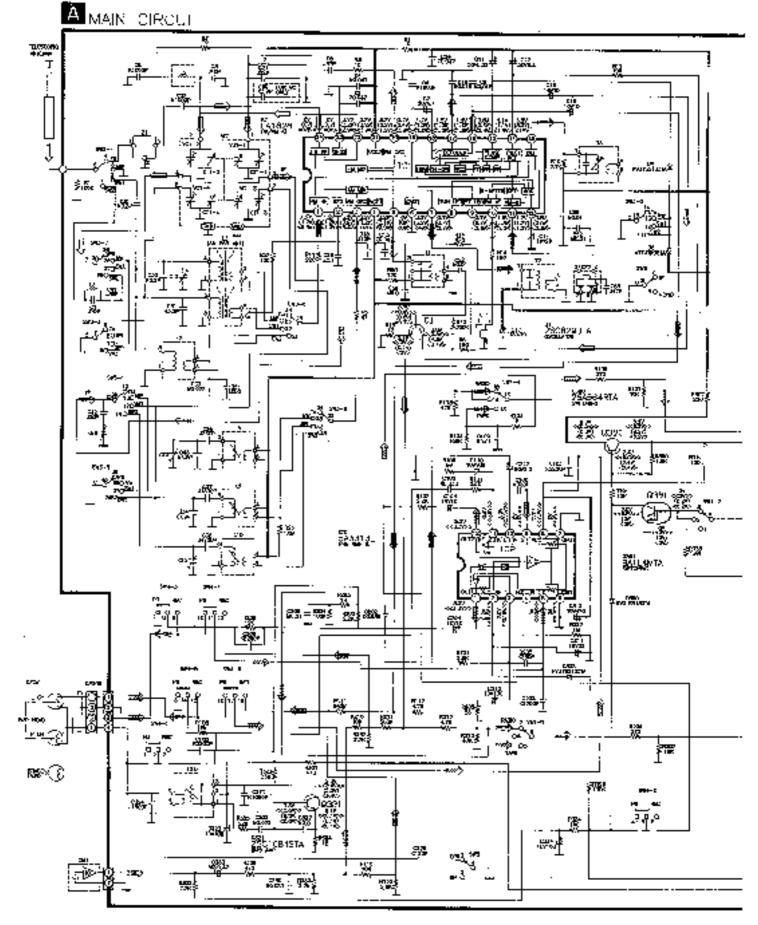
Components Manifillad by //y maik have special characteristics important for science. Furthermore, epecial parts which have purposes of fine-retargent (resistors), in gr-quality are not (capacitors). Low-noise (instanced (resistors), then replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

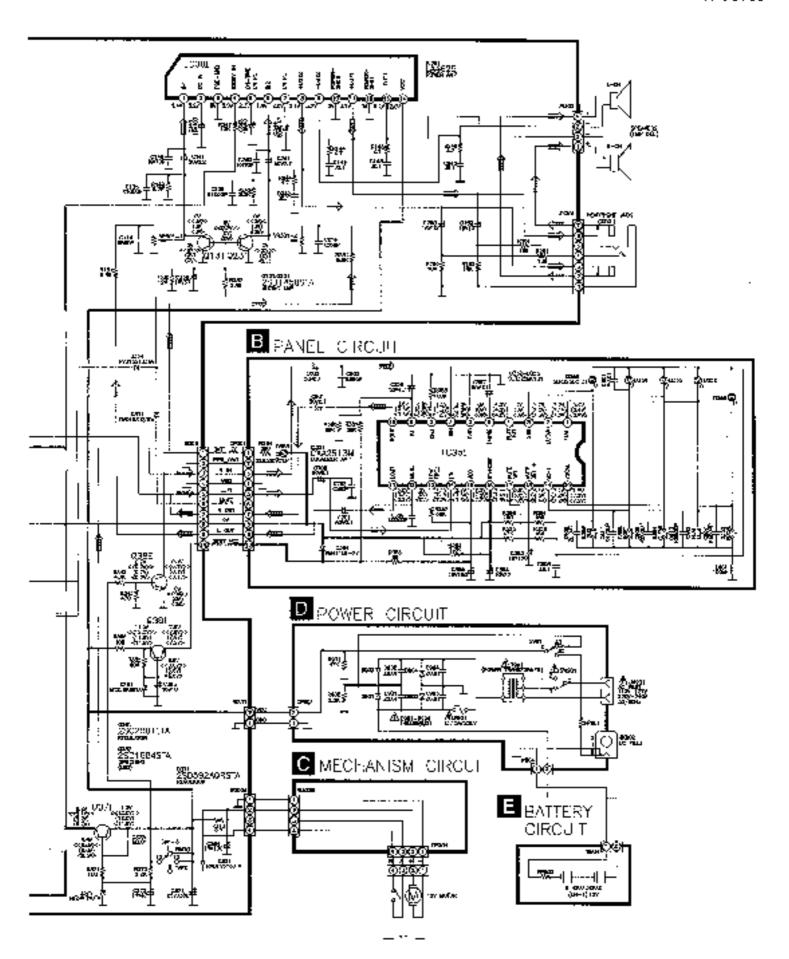
Caution !

IO, LSI and VL5; are sensitive to static electricity.

Sexualizing houble can be prevented by taking date doming repair.

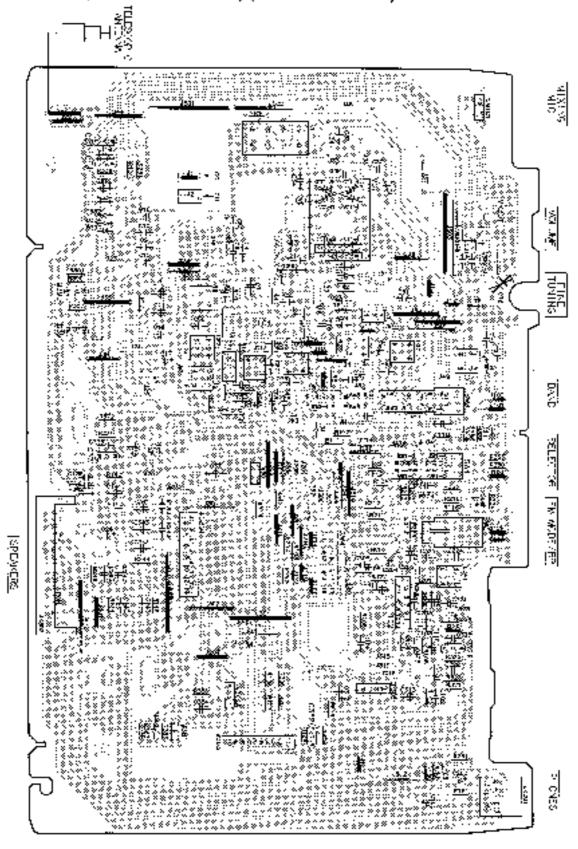
- Cover the perte toxes made of plastics with a ormitum feit.
- · Ground the so dedny for:
- Do not to ush the pins of IO II Short VI, Shyath lingers directly
- Pritis conductive motion the work lettle.

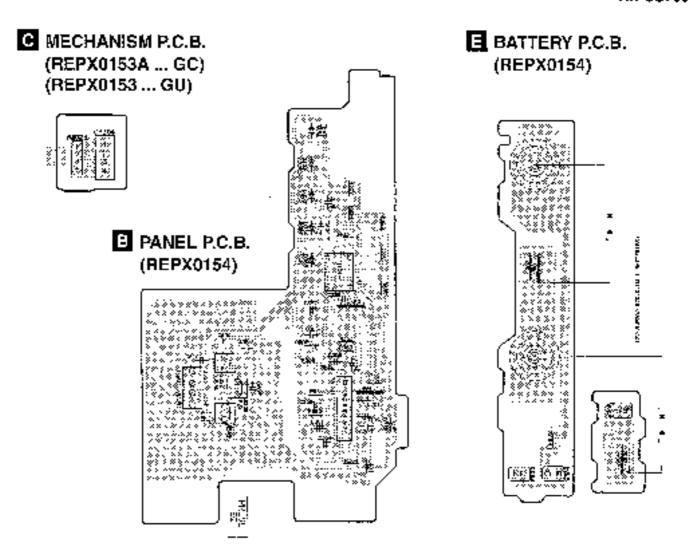




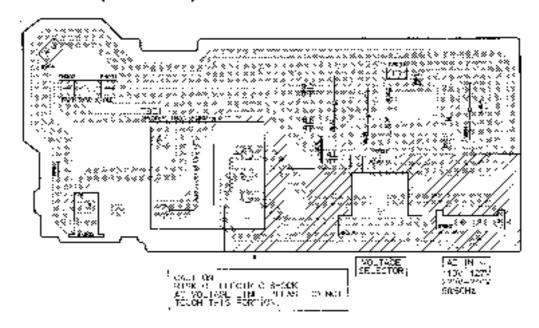
■ Printed Circuit Board

A MAIN P.C.B. (REPX0153A ... GC) (REPX0153 ... GU)

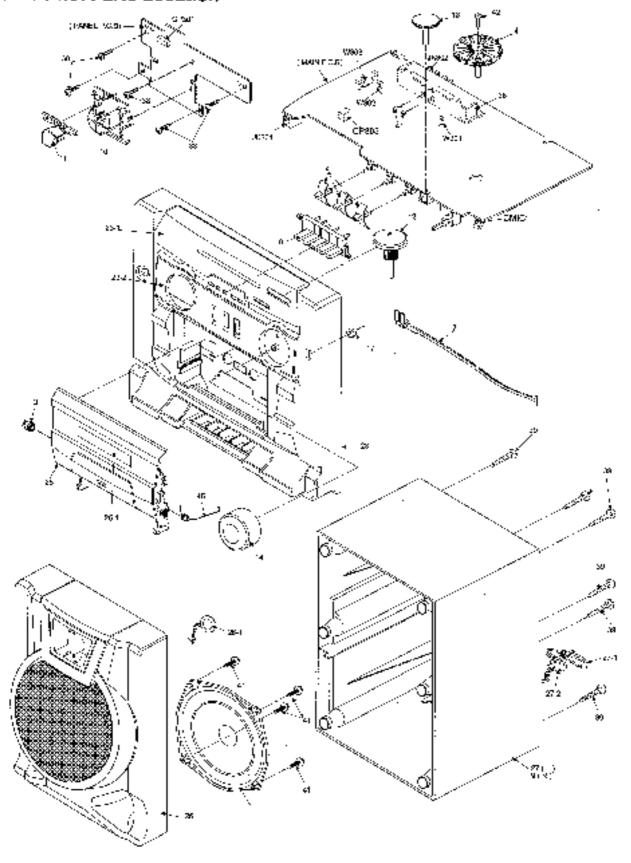


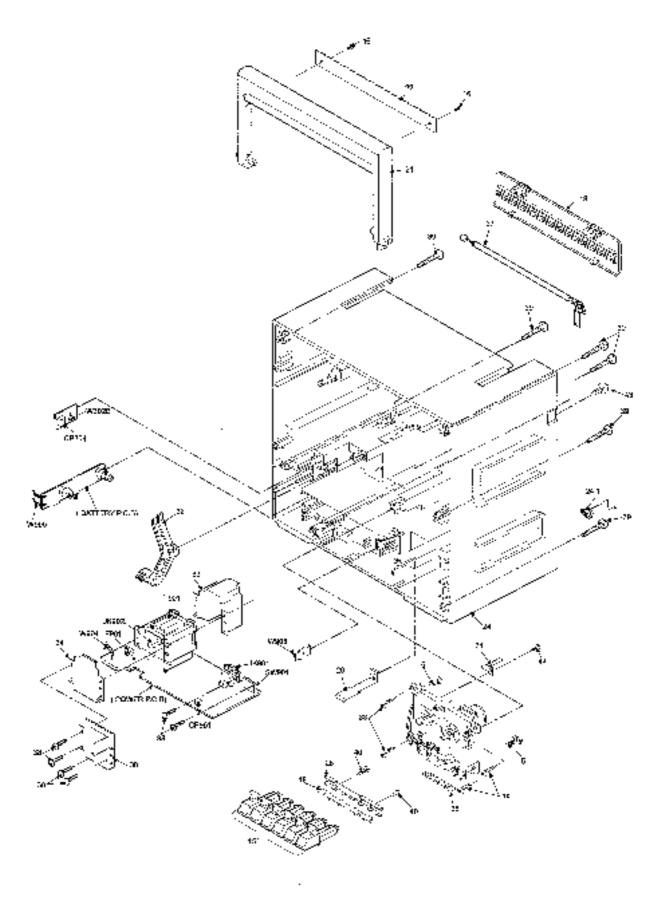


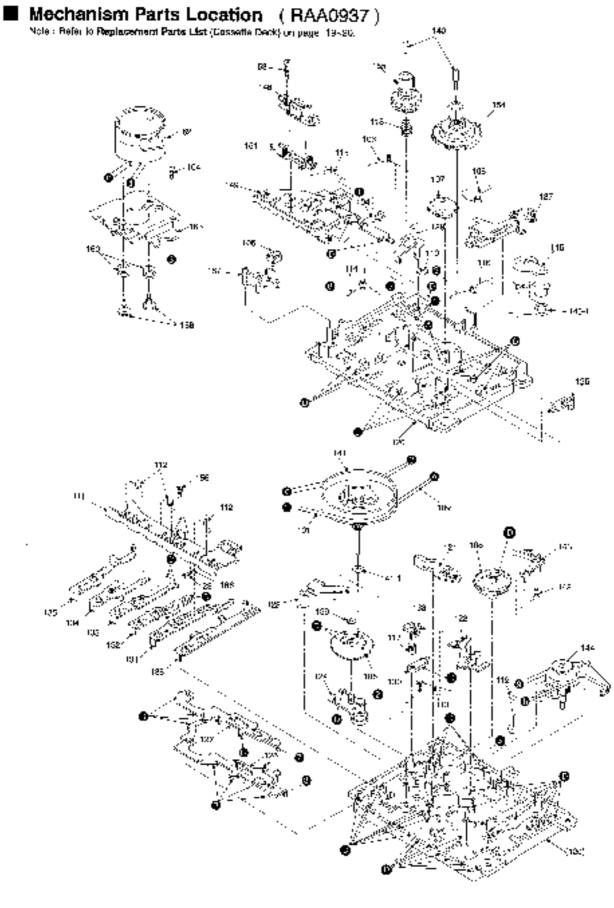
D POWER P.C.B. (REPX0154)



■ Cabinet Parts Location







■ Replacement Parts List

Notes: The death salety not cold

Provided satisfy notes:
 Components Identified by A, mark level special characteristics imports to safety.
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 When replacing any of components, to succ to safe only magnificationer's specified parts shown in the parts. Its.
 The 15th mark denotes the stary but parts.
 Will in Romarks entrain indicates parts that are supplied by MESA.

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5	FD3):881	DAMPEN CEAN .		54	386-7040	Tear Stillio	Ж	-27	2 HL (0:	FUNCTION THE	171
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c c	FE(404-7	T4P3 FERENCIAL I	171	57	FANCILIE (A.S.	AR - 644, LC	Ä	-96	PH Htz	#5 0 4 (171
7	F2 Dub (AV)	CR.01.1	171	: .	MIV HOS	VOUNTING SCREW	·H	.	F M2:501	COVECU	171
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12	F9420057 k	TUNING (NGB	191	43	<7% P2FY	AIT SOFE//	N	36	PM V0238	363 FC)	121
12	F5#40065 K	F NET J 14143 10: CB	171	4	STN2-4F	TROOF 650 - 11 W-St	N.	-:: -:-	84/0020	ELECTRURE FORD	171
14	F2430066-H	VOISE GLOS	;;; 	4	0.7-50 114	KONSTONENS PINS	N	-18	3N31611	#6-1-0-z	-
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IC	FIRECCE	VBOH4 SUTTON SEAT	191	l _R	apyson -	74956JT	พ	1'-1	4 4/2 339	FLYWEIEL AVEIER	121
ID.	FMX23ZA-0	SATTERY DOVER	191	103	8/301221	ERAKESERING	N.	±	RN80044	TRI GGER EPRING	191
21	FM-63008 K	-DYOLE	121	164	90,0016	57-403	N.	19	200.007E	TRIGGER LEVER	191
22	FI0:006- K	dayath Graga a.	191	168	95R2CV004	Ties H 96	N.	+	889004	95 C.J.T.XH #85Y	121
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3		FIRST CORRESPON	1382	11:	5000194	:1115-14-40	n.	451	RMELL41	144+ 2017 / 19 19 1	191
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;	190000 2010	CASSID FARE.	151	113	RV5C547	-E4L POLELEIFIY	N,	39	RF 023000	VOTOF SORSA	[26
ત્ર	FLKSCT800-6		191	113	RVSC049	CLEFTPAT SALBID	N I	:30	999016		
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57	FINICISCO A		191	111:	9V5C1e1	AAA FISTA GITEG	A.	-38	SMC134	95-10-11s	141 191
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55	FWPCC13	ASIC S RAI-	171	14.		MECHNIE	x x	. 94	LIMITE.	A SHE OF	171
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■ Resistors & Capacitors

Nates: * Important, safety respect

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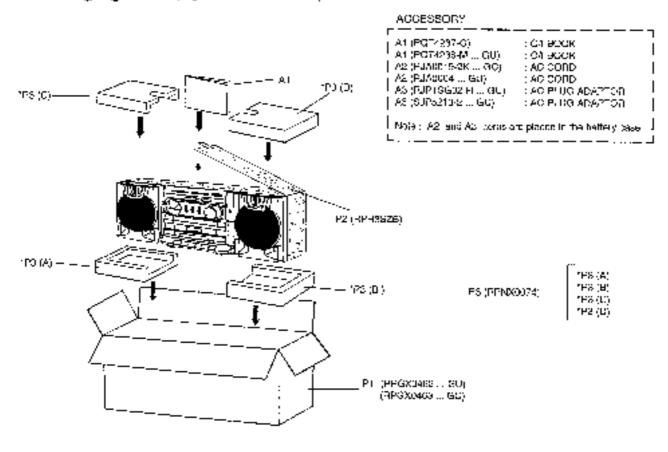
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■ Packaging (Refer to page 20 for the Parts Lat.)



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