Service Manua

Portable CD Player SL-S230

Please file and use this manual together with the service manual for Model No. SL-S230, Order No. AD9803046C1.

Colour (S) Sliver Type (A) Blue Type

Notes: • This simplified service manual is provided to indicate the differences between the original No. SL-S230 (P) (PC) and the subsequent model No. SL-S230 (GK) (GH).

Areas

- SL-S230 (GK) (GH) is equipped with remote control on SL-S230 (P)
- (GK)..... China. (GH) Hong kong.

· All parts are supplied by MESA.

Traverse Deck: RAE0145Z Mechanism Series **Specifications**

Audio

No. of channels: Frequency response:

Output voltage:

S/N: Wow and flutter:

DA converter:

Headphones output level:

2 channels (left and right, stereo) 20 to 20,000 Hz (+0.5 dB to -1.5dB)

0.6 V (50 kΩ) more than 94 dB*2

Below measurable limit 1 bit, MASH*1

max. 9 mW+9 mW/16 Ω (adjustable)

Pick up

Light source: Wavelength:

Semiconductor laser

780 nm

Operational temperature range: 0°C - 40°C (32°F - 104°F) Rechargeable temperature range: 5°C - 40°C (41°F - 104°F)

Power supply:

Power consumption:

Power source	Anti-shock OFF/ON				
AC adaptor	3.0 W/ 3.2 W				
Battery (DC 3 V)	0.4 W/ 0.4 W				

When recharging:

3.6 W

Play time:

When used in hold mode, at 25°C (77°F) temperature and on flat and stable surface.

Batteries used	Anti-shock OFF/ON
2 alkaline batteries*3	About 20 hours/ 20 hours
Rechargeable battery (P-3GAVT)	About 10 hours/ 10 hours

The play time may be less depending on the operating conditions Recharging time:

P-3GAVT;

Dimensions (W×H×D):

About 5 hours

 $128 \times 27.8 \times 144 \text{ mm}$ 265 g with batteries

Weight:

220 g without batteries

Notes: Specifications are subject to change without notice. Weight and dimensions are approximate.

*1 MASH is a trademark of NTT.

- *2 This specification was measured in Anti -shock OFF mode.
- *3 These batteries was not included.

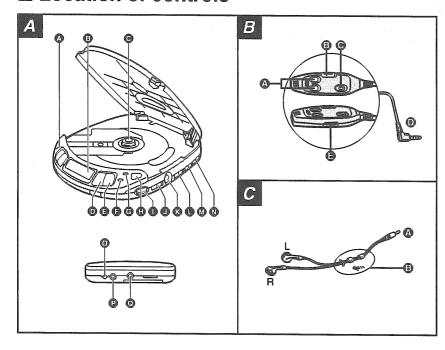
WARNING

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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Location of controls



Portable CD player M

- Skip/search buttons (Idd, DD +SKIP -SEARCH)
- Display
- @ CD release button (PUSH)
- Play/pause button (► II)
- Stop/power off button (■, POWER OFF)
- Memory/recall button (MEMORY/RECALL)
- Repeat button (REPEAT)
- (3) Open button (OPEN)
- Headphones volume control (VOLUME)
- Train/S-XBS selector (TRAIN, S-XBS, OFF)
- Headphones jack (∩)
- Play mode selector (RESUME, NORMAL, RANDOM)
- Hold switch (HOLD)
- (ANTI-SHOCK)
- Out jack (OUT)
- DC in jack (← ← → DC IN 4.5 V)
- Mole for car insulator mounting screw

Wired remote control 🗉

- Skip/search buttons (+, -)
- (B) HOLD switch (HOLD)
- Play/stop/off button
- Plug
- (VOL)

Stereo earphones @

- Plug
- Slider

■ Schematic Diagram

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

- S201 : Laser ON/OFF switch in "OFF" position.
- (It turns "ON" with disc holder closed.)
- S202: Rest detector in "OFF" position.
- (It turns "OFF" when optical pickup comes to innermost periphery.)
- S301 : Memory/recall (MEMORY/RECALL) switch.
- S302 : Repeat (REPEAT) switch.
- S303, 304: Skip/search (I◄•SKIP/ SEARCH ▶►I) switches. (S303: | S304: ► I)
- S305 : Stop/power off (POWER OFF) switch.
- S306 : Play/pause (▶ III) switch.
- S307 : Play mode selector (MODE) in "RESUME" position. $(RANDOM \leftrightarrow NORMAL \leftrightarrow RESUME)$
- S308: Hold (HOLD) switch in "OFF" position.
- S501 : Anti-shock (ANTI-SHOCK) switch in "OFF" position.
- S701 : TRAIN/S-XBS Selector (TRAIN/S-XBS) switch in "OFF" position.
- VR11: Power supply voltage adjustment VR.
- VR701-1, VR701-2: Volume control VR.

- The voltage value and waveforms are the reference voltage of this measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of GND terminal (DC IN Jack).
 - Accordingly, there may arise some errors in the voltage values and waveforms depending upon the internal impedance of the tester or measuring unit.
- The parenthesized is the voltage for test disc (1kHz, L+R, 0 dB) in play mode, and the other, for no disc in stop mode.
- · AC adaptor is used for power supply.
- Signal line

: Positive voltage lines.

: Audio signal lines.

• Important safety notice:

Components identified by ${\mathbb A}$ 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 manufacture's specified parts shown in the parts list.

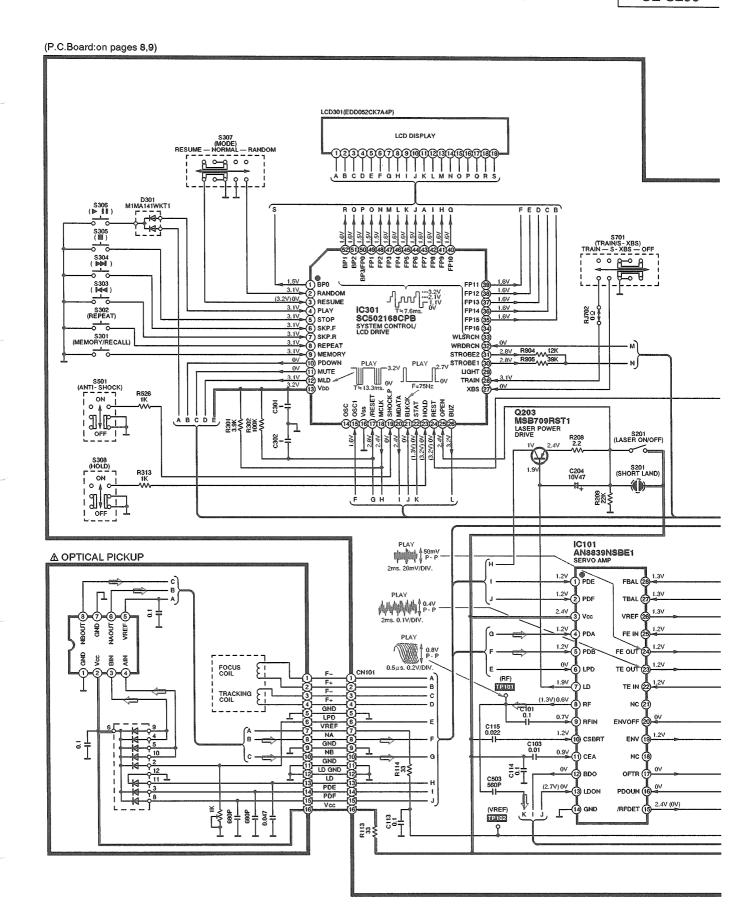
Caution!

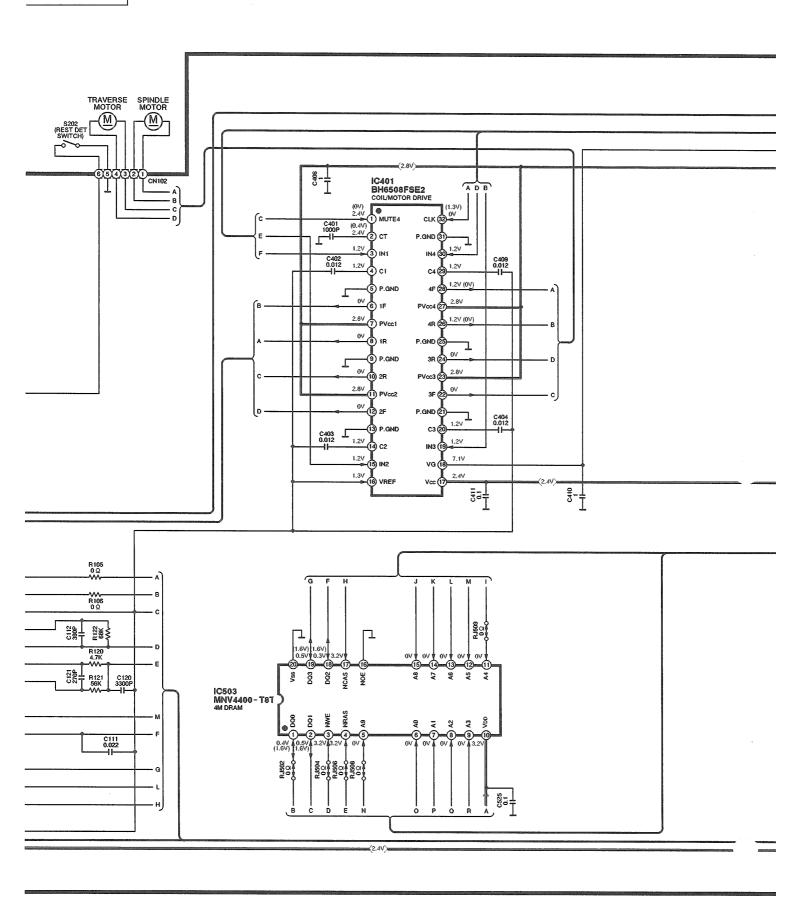
IC and LSI are sensitive to static electricity.

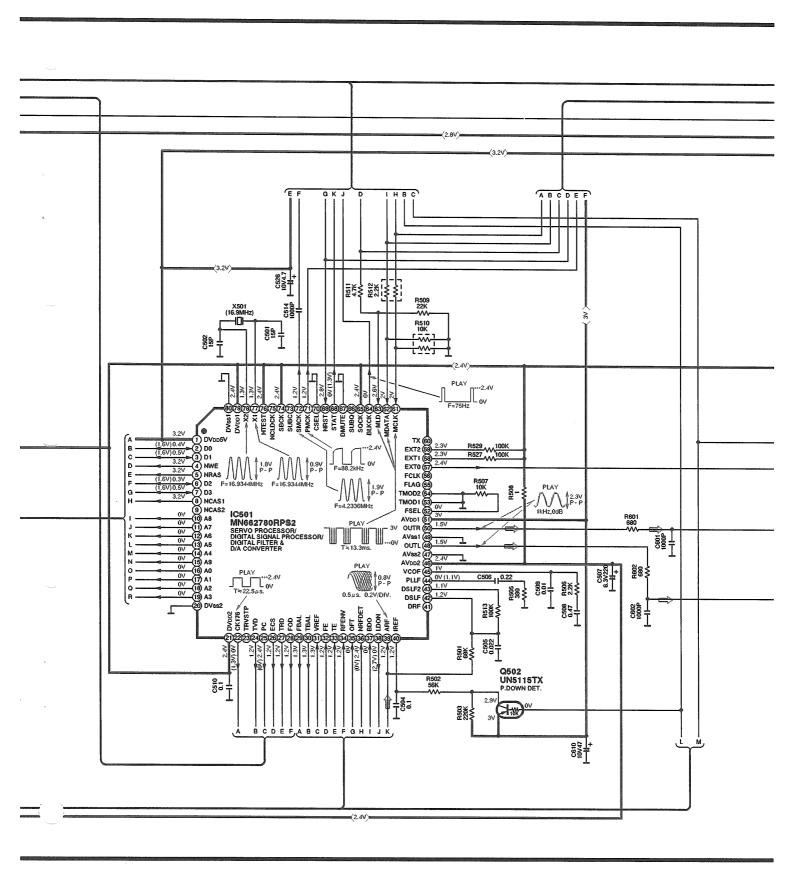
Secondary trouble can be prevented by taking care during repair.

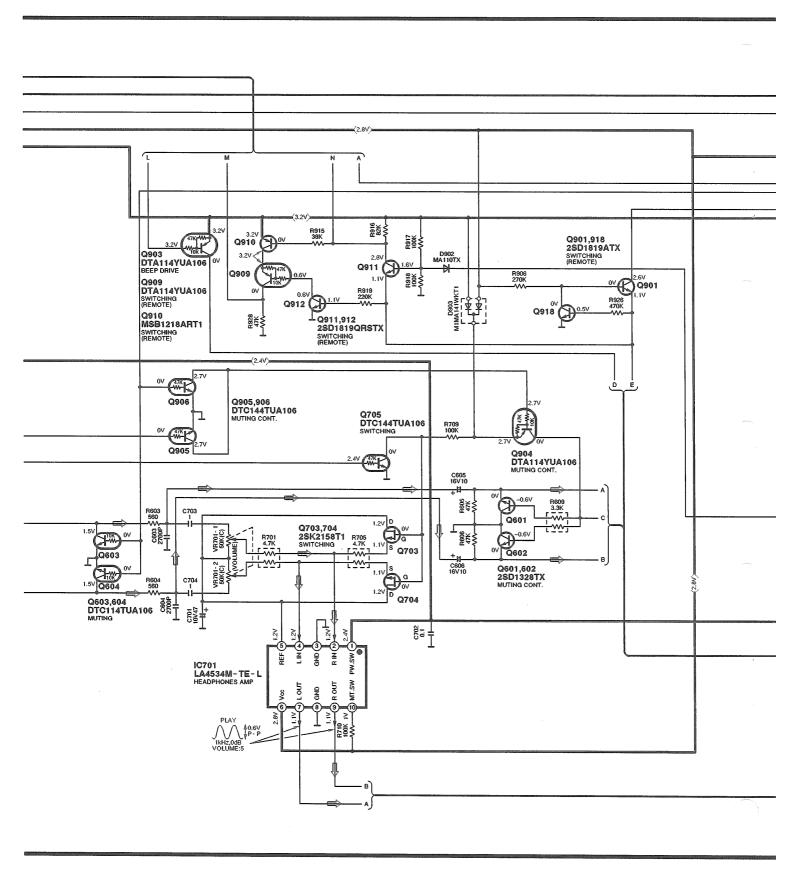
- Cover the parts boxes made of plastics with aluminum foil.
- · Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the pins of IC or LSI with fingers directly.

Please refer to the service manual for Model No.SL-S230 (Oder No. AD 9803046C1) about Terminal Function of IC's.

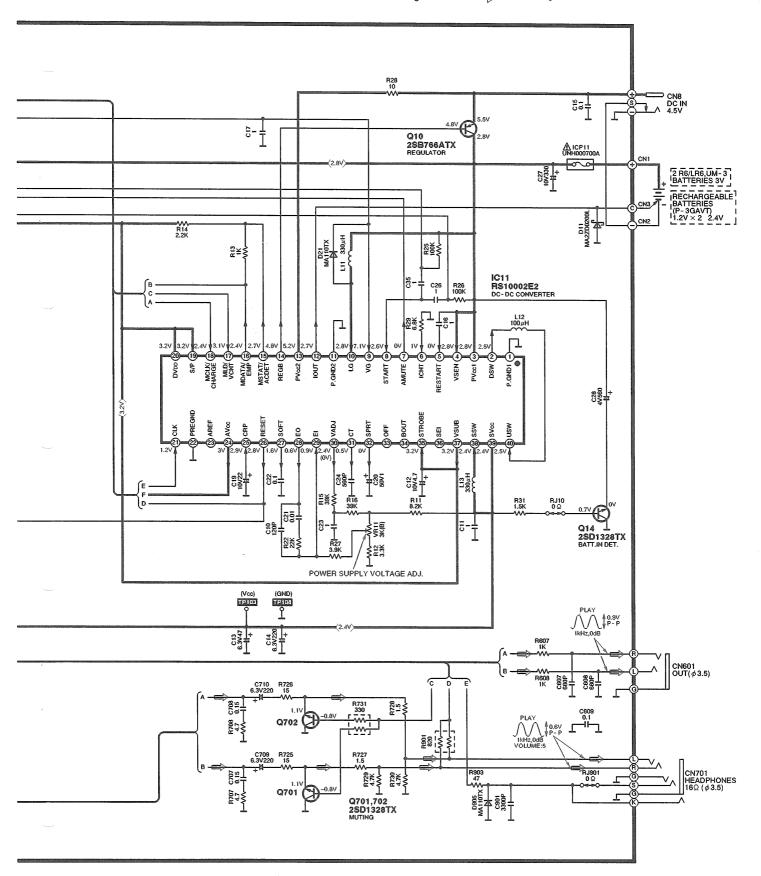






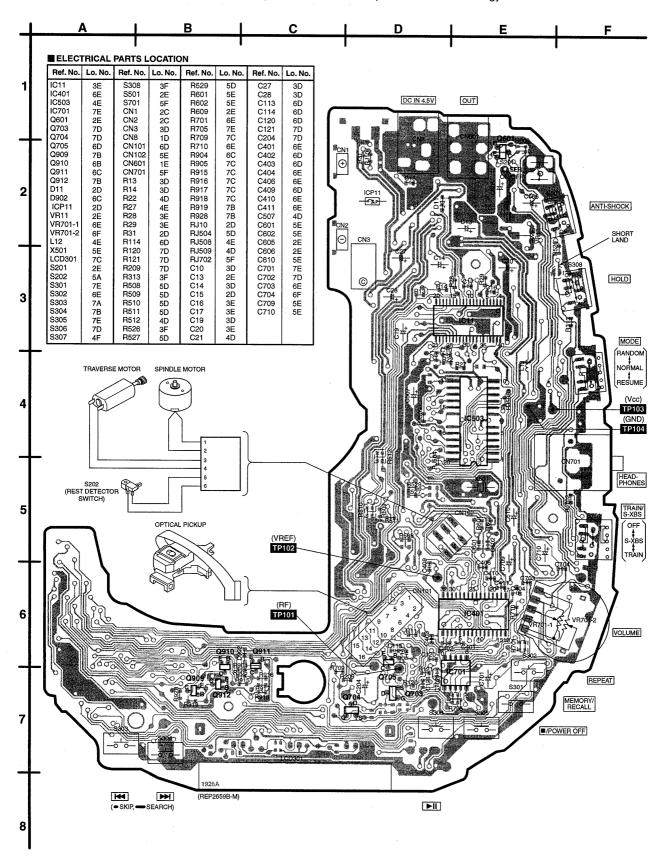


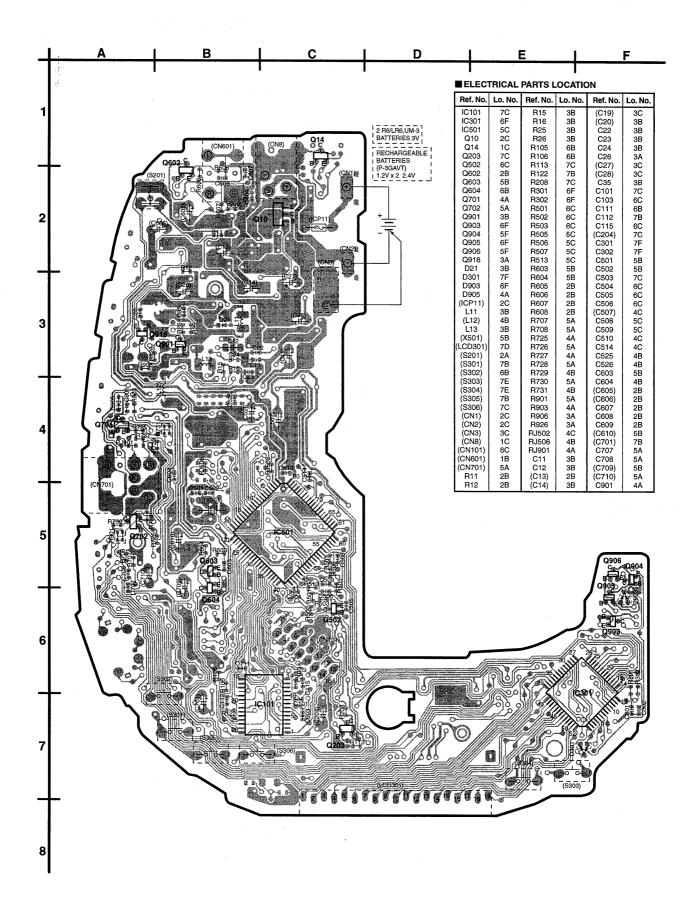
: Positive voltage lines. : Audio signal lines.



■ Printed Circuit Board Diagram

This circuit board diagram may be modified at any time with the development of new technology.





■ 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 manufacture's specified parts shown in the parts list.

* All parts are supplied by MESA.
 * The "<IA> <IB>" marks in Remark indicate language of instruction

Company Comp	*	* The " <ia> <ib>" marks in Remark indicate language of instruction</ib></ia>				C601, 02	ECUV1H102KBV			2
- CAS- 1: Cognision parties. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom is not attached to merchandise, but it is supplied as a replacement parts. - (AS-) This isom isom isom isom isom isom isom is		manual.				C603, 04			-	
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CFOP_06									-	
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C91 C01/14/2694 Sep 3 sheep 1									-	
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AR SQT-3333-C BIST-MANUAL	A2	RFEV316P-K1S	STEREO EARPHONES	1					╁	,
AR	A4		INST. MANUAL	1	(GH) (GK) <1A>	D11	MA2ZD0200L	DIODE	+	1
∆A AT SJP\$213-1-P PULK DAAPTOR 1 (GH) D001 MINATATUKTI DIDDE 1 AB AB SMEGOSA-0 BAR PASS 1 D002 MINATATUKTI DIDDE 1 AB B MRGOSSA-0 BAR PASS 1 D003 MINATATUKTI DIDDE 1 AI-D REFROAVES BATEKY CASE 1 D005 MINATATUKTI DIDDE 1 AI-D REFROAVES BATEKY CASE 1 D005 MINATATUKTI DIDDE 1 AI-D REFROAVES STEWICE CENTER LIST 1 COO 1CI RESIDEATION 1 CC 1 CIO COUPHILIZON SW VI U 1 1 ICIO RESIDEATION 1 1 ICIO 1 1 ICIO 1 1 1 ICIO 1 1 ICIO 1 1 ICIO				1	(GH) < IB>	D21			1	
A84 REPOIS PACKS REMOTE CONTROLLER 1				1	(GH)	D301			-	
APP				1					-	
A10				1		D903	M1MA141WKT1		-	
A11				1		D905			-	
C10				1					T	
C10	A11	RQCB0169	SERVICE CENTER LIST	1	(GH)	IC11	RS10002E2	IC	1	1
C11 ECUVIA-1052FV 10V 1U 1 1 1 1 1 1 1 1						IC101	AN8839NSBE1	IC	1 1	
C12						IC301	SC502168CPB	IC	1	
C13				1		IC401	BH6508FSE2	IC	1	
C14 REQUIVACIONE SERVINO 1 U 1						IC501	MN662780RPS2	IC	1	
C15						IC503	MNV4400-T8T	IC	1	
C16.17 CLUVIALIDSZEV 10V 10						IC701	LA4534M-TE-L	IC	1	
C19									Г	
C20 CCA1HKSD10 SOV 1U						⚠ ICP11	UNH000700A	IC PROTECTOR	1	
C21 CCUVICIONEY 25V 0.01U 1										
C22 ECUZNC104ZFV 15V 0.1U 1 1 1 1 1 1 1 1 1									1	
C23 ECUVNA10SZPV 10V 1U									L	
C24 ECUVIHS61KBV SOV S60P 1									1	
C26				_						
C27 RCE1AMT3311V 10V 330U 1									2	2
C28 RCEOGNTSG11V 4V S60U 1									1	
C35						KJ901	ERJ3GEYOROOV	CHIP JUMPER	1	
C101 ECUVIC104KBY 16V 0.1U 1 1 1 1 1 1 1 1 1	~~			_		<u> </u>	DI 011224177 W	2011 2012	L	
C103 ECUVIE103KBV 25V 0.01U 1									⊢!	
C111									-	
C112 ECUVIH391KBY 50V 390P						L13	urfinos IVI -M	COIL, CHUKE	-	
C113, 14 ECUZNC104ZFV 16V 0. 1U 2 2 C115 ECUVIC23KBV 16V 0. 0.022U 1 1 C120 ECUVIH33ZKBV 50V 3300P 1 1 P1 RPK0997 PACKING CASE 1 1 (A) C121 ECUVIH27IKBV 50V 270P 1 1 P2 RPQ0753 SPACE 1 1 C204 RCE1AKA4701G 10V 47U 1 1 P3 RP00836-1 PAD 1 1 C301, 02 ECUVNA105ZFV 10V 1U 2 2 P4 RPF0111 PROTECTION COVER 1 1 C401 ECUVIH10ZKBV 50V 1000P 1 1 C402 ECUVIH10ZKBV 50V 0.012U 3 1 Q10 ZSB766ATX TRANSISTOR 1 1 C406 ECUVIH10ZKBV 25V 0.012U 1 1 Q203 MSB709RST1 TRANSISTOR 1 1 C410 ECUVIH123KBV 25V 0.012U 1 Q203 MSB709RST1 TRANSISTOR 1 1 C410 ECUVIH10ZKBV 50V 0.012U 1 Q601, 02 ES013Z8QRSTX TRANSISTOR 1 1 C410 ECUVIH10SKBV 50V 0.012U 1 Q601, 02 ES013Z8QRSTX TRANSISTOR 1 C410 ECUVIH10SKBV 50V 0.012U 1 Q601, 02 ES013Z8QRSTX TRANSISTOR 2 Q603, 04 DTC114TUA106 TRANSISTOR 2 C5013 ECUVIH561KBV 50V 560P 1 Q701, 02 ES013Z8QRSTX TRANSISTOR 2 C5014 ECUZNC104ZFV 16V 0. 1U 1 TANSISTOR 2 ECUZNC104ZFV 16V 0. 1U 1 T						I CD301	EDD052CK7AAD	I CD DISPLAY	⊬.	
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C121 ECUV1H271KBV 50V 270P 1 P2 RPQ0753 SPACE 1 C204 RCE1AKA470IG 10V 47U 1 P3 RPQ0836-1 PAD 1 P3 RPQ0836-1 PAD 1 P4 RPF0111 PROTECTION COVER 1 P4 RPF0111 PAD RPF										
C204 RCEIAKA470 G 10V 47U 1 1 2 2 7 8 8 7 8 8 7 8 8 8				1						
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C401 ECUVILIO2KBY 50V 1000P	C301,02	ECUVNA105ZFV	10V 1U	2					<u> </u>	
C406 ECUVNA1052FV IDV IU 1 1 1 2501328QRSTX TRANSISTOR 1 1 1 1 1 1 1 1 1				1					Ι'	
C406			25V 0. 012U	3		Q10	2SB766ATX	TRANSISTOR	1	
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C411				_1					⊢	
C501,02 ECUV1H150KCV 50V 15P 2 Q603,04 DTC114TUA106 TRANSISTOR 2 C503 ECUV1H561KBV 50V 560P 1 Q701,02 2SD1328QRSTX TRANSISTOR 2 C504 ECUZACIO4ZFV 16V 0.1U 1 Q703,04 2SK2158T1 TRANSISTOR 2 C505 C50				1						
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Ref. No. C506

C507

C509

C510

C514

C525

C526

Part No. Part Name & DescriptionPcs

220U

0. 22U

0.01U

1000P

0. 1U

4.7U

ECUVNA224KBV 10V

ECUV1E103KBV 25V

ECUZNC104ZFV 16V

ECUV1H102KBV 50V

ECUZNC104ZFV 16V RCST1AY475RE 10V

C601, 02 ECUV1H102KBV 50V

RCEOJKA2211G 6.3V

ECUVOJ474KBV 6.3V 0.47U

Remarks

Ref. No.	Part No.	Part Name & DescriptionP	cs Remarks	Ref. No.	Part No.	Part Name & Description	P.d	Remarks
Q901	2SD1819ATX	TRANSISTOR	1	\$308	RSS2A010-1A	SW, HOLD	1	Wengt K2
	DTA114YUA106		2	\$501		SW, ANTI-SHODE	1	
	DTC144TUA106		2	\$701	RSS3A007-1A		1	-
Q909	DTA114YUA106		1					
Q910 Q911, 12	MSB1218ART1 2SD1819ATX	TRANSISTOR TRANSISTOR	2	VR11		V.R., VOLTAGE ADJ.	1	
Q918	2SD1819ATX	TRANSISTOR	1	VR701	EVUTUFB11C54	V. R. , VOLUME	1	
	20070101111	THAMOTOTOR	1	X501	RSXZ16M9M01T	OSCILLATOR	1	
R11	ERJ3GEYJ822V	1/16W 8.2K	1	11	NOAZ TOMOMOTT	OSCILLATOR	+ '1	
R12	ERJ3GEYJ332V		1	11	1		+	
R13		1/16W 1K	1	1			11	
R14			1				\Box	
R15, 16	ERJ3GEYJ393V		2					
R22 R25, 26	ERJ3GEYJ223V ERJ3GEYJ104Z		1 2				Ш	
R27	ERJ3GEYJ392V		1	┨┠			+	
R28	ERJ3GEYJ100V		1	┨├──			+	
R29	ERJ3GEYJ682V		1	11	 		+	
R31	ERJ3GEYJ152V	1/16W 1.5K	1	11			++	
			2				T^{\dagger}	
	ERJ3GEYJ330V		2				\Box	
R120	ERJ3GEYJ472V		1	1	ļ		П	
R121 R122	ERJ3GEYJ563V ERJ3GEYJ683V		1				\sqcup	
R208	ERJ3GEYJ2R2V		1		_		+	
R209			1	11	 		H	
R301	ERJ3GEYJ392V		1	11			\vdash	
R302	ERJ3GEYJ104Z	1/16W 100K	1				\vdash	
R313	ERJ3GEYJ102Z		1				\Box	
R501	ERJ3GEYJ683V		1					
R502 R503		1/16W 56K 1/16W 220K	1		ļ			
R505	ERJ3GETJ224V		1				\vdash	
R506	ERJ3GEYJ222V		1	-			H	
R507		1/16W 10K	1	11	 		$\vdash \vdash$	
R508	ERJ3GEYJ1ROV	1/16W 1	1				1-1	
R509		1/16W 22K	1				T	
R510	EXBV4V103JV	1/32W 10K	1					
R511		1/16W 4.7K	1					
R512 R513	EXBV4V222JV ERJ3GEYJ104Z	1/32W 2.2K 1/16W 100K	1				$\perp \perp$	
R526	ERJ3GEYJ102Z		1				\vdash	
R527		1/16W 100K	1	11			\vdash	
R529	ERJ3GEYJ104Z	1/16W 100K	1				f	
R601,02		1/16W 680	2					
R603, 04		1/16W 560	2					
R605, 06 R607, 08	ERJ3GEYJ473V ERJ3GEYJ102Z	1/16W 47K 1/16W 1K	2 2				Ш	
R609	EXBV4V332JV	1/32W 3.3K	1				-	
R701	EXBV4V472JV	1/32W 4.7K	1	11			+	
R705	EXBV4V472JV	1/32W 4.7K	1	11	<u> </u>		\dagger	
		1/16W 4.7	2		-		T	
R709, 10	ERJ3GEYJ104Z	1/16W 100K	2				\Box^{\dagger}	
	ERJ3GEYJ150V		2				П	
	ERJ3GEYJ1R5V ERJ3GEYJ472V		2 2		-		\sqcup	
R729, 30		1/16W 4.7K 1/32W 330	1	1	 		\vdash	
R901		1/32W 820	1	1			\vdash	
R903	ERJ3GEYJ470V		1	11			\vdash	
R904	ERJ3GEYJ123V	1/16W 12K	1	11			\forall	
R905	ERJ3GEYJ393V	1/16W 39K	1				\forall	
R906	ERJ3GEYJ274V		1				\square	
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R916 R917, 18	ERJ3GEYJ823V		1				\sqcup	
R917, 18	ERJ3GEYJ104Z ERJ3GEYJ224V		2				\vdash	
R926	ERJ3GEYJ474V		1		-		\vdash	
R928	ERJ3GEYJ473V		1	11			\vdash	
							††	
SA1	SZZP1054C	PLAYABILITY TEST DISC	1				††	
SA2	SZZP1056C	UNEVEN TEST DISC	1				\Box^{\dagger}	
C00:	E0E11072	OW 1 4050 ON /OSS			ļ		\Box	
\$201 \$301-06	ESE11SV6 EVQ11G05R	SW, LASER ON/OFF	1	-	ļ		\sqcup	
S307		SW, PUSH SW, MODE	6				$\vdash \downarrow$	
		, mode	1	11	-		\vdash	
•							1. [

■ Replacement Parts List (Cabinet Parts)

Ref. No.	Chang	ge of Parts No.	Part Name & Description	Remarks	
	(P)	(GK/GH)	Tart Name & Description		
CABINET PAR	TS				
1	RFKJLS230P-S	RFKJLS230GKS		(GK)	
		RFKJLS230GHS	BOTTOM CABINET ASS'Y	(GH)	
	RYF0460-S	RYF0460A-S		[A]	
7		RYF0460A-A	CD COVER ASS'Y	[S]	
8	RYK0718A-H	RYK0718F-H	INTERMEDIATE CABINET ASS'Y		

Packaging

