SERVICE MANUAL

Ver. 1.0 2007. 08

AEP Model UK Model



(Photo: CDX-GT220)

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-101TC-188//Q
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

CD player section

Signal-to-noise ratio 120 dB Frequency response 10 – 20,000 Hz Wow and flutter Below measurable limit

Tuner section

FΜ

Tuning range 87.5 – 108.0 MHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz

Usable sensitivity 9 dBf

Selectivity 75 dB at 400 kHz

Signal-to-noise ratio 67 dB (stereo), 69 dB (mono)

Harmonic distortion at 1 kHz

0.5% (stereo), 0.3% (mono)

Separation 35 dB at 1 kHz Frequency response 30 - 15,000 Hz

MW/LW

Tuning range MW: 531 – 1,602 kHz

LW: 153 – 279 kHz

Antenna (aerial) terminal

External antenna (aerial) connector

 $\begin{array}{ll} \text{Intermediate frequency} & 10.7 \text{ MHz/450 kHz} \\ \text{Sensitivity} & \text{MW: 30 } \mu\text{V, LW: 40 } \mu\text{V} \end{array}$

Power amplifier section

Outputs Speaker outputs (sure seal connectors)

Speaker impedance 4-8 ohms

Maximum power output

45 W × 4 (at 4 ohms)

General

Inputs

Tone controls

Output Audio outputs terminal (sub/rear switchable)

Power antenna (aerial) relay control terminal

Power amplifier control terminal Telephone ATT control terminal

Antenna (aerial) input terminal AUX input jack (stereo mini jack)

Low: ±10 dB at 60 Hz (XPLOD)

Mid: ±10 dB at 1 kHz (XPLOD)

High: ±10 dB at 10 kHz (XPLOD)

Loudness +4 dB at 100 Hz

+2 dB at 10 kHz

- Continued on next page -

FM/MW/LW COMPACT DISC PLAYER

9-887-811-01 2007H04-1 **Sony Corporation** eVehicle Division

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Power requirements 12 V DC car battery (negative ground)

Dimensions Approx. $178 \times 50 \times 179 \text{ mm}$

 $(7.1/8 \times 2 \times 7.1/8 \text{ in.}) (\text{w/h/d})$

Mounting dimensions Approx. $182 \times 53 \times 162 \text{ mm}$

 $(7.1/4 \times 2.1/8 \times 6.1/2 \text{ in.}) (\text{w/h/d})$

Mass Approx. 1.2 kg (2 lb. 11 oz.)
Supplied accessories Parts for installation and connections (1 set)

Design and specifications are subject to change without

notice.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up bock may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic brakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damag ed and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- •N otice that the minus side of a tantalum capacitor may be damaged by heat.

TEST DISCS

Please use the following test discs for the check on the CD section.

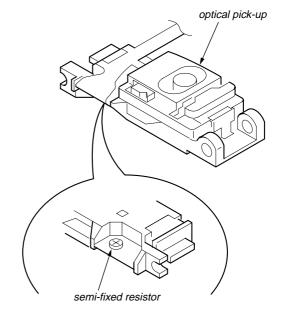
YDES-18 (Part No. 3-702-101-01) PATD-012 (Part No. 4-225-203-01)

CAUTION

Use of controls or adjustments or performance of procedures other than those specif ied herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.

Never turn the semi-fixed resistor located at the side of optical pikup block.



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

This compact disc player is classif ied as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the exterior.



This label is located on the bottom of the chassis.

CD Playback

You can pla y CD-DA (also containing CD TEXT) and CD-R/ CD-RW (MP3/WMA files*).

Type of discs	Label on the disc						
CD-DA	DIGITAL AUDIO Recordable	COMPACT DIGITAL AUDIO ReWritable					
MP3*	DIGITAL AUDIO Recordable	DIGITAL AUDIO ReWritable					
WMA*	Recordable	ReWritable					

^{*} CDX-GT220/GT222 only

• UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the leadfree mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

arphi : LEAD FREE MARK

Unleaded solder has the following characteristics.

• Unleaded solder melts at a temperature about 40°C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350°C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

· Strong viscosity

Unleaded solder is more viscous (stick y, less prone to flo w) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

· Usable with ordinary solder It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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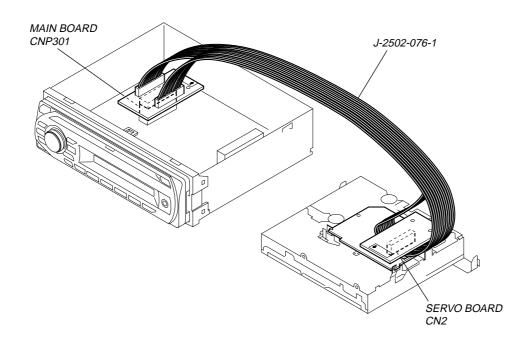
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SECTION 1 SERVICE NOTE

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (α tension cable) as shown below.

• Connect the MAIN board (CNP301) and the SER/O board (CN2) with the extension cable (Part No. J-2502-076-1).



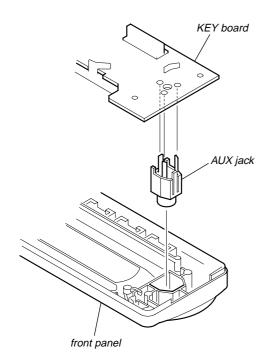
NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (A-1177-201-A) should be replaced since any parts in the SERVO board cannot be repaired.

NOTE FOR REPLACEMENT OF THE AUX JACK (J901)

To replace the AUX jack requires alignment.

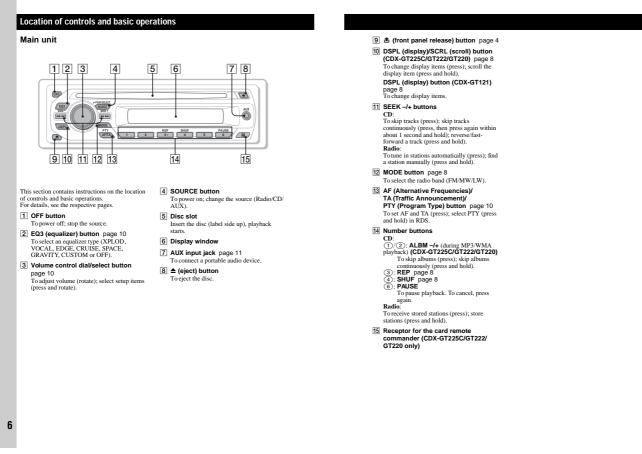
- 1. Insert the AUX jack into the KEY board.
- 2. Place the KEY board on the front panel.
- 3. Solder the three terminals of the jack.



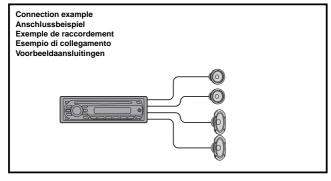
SECTION 2 GENERAL

This section is extracted from instruction manual.

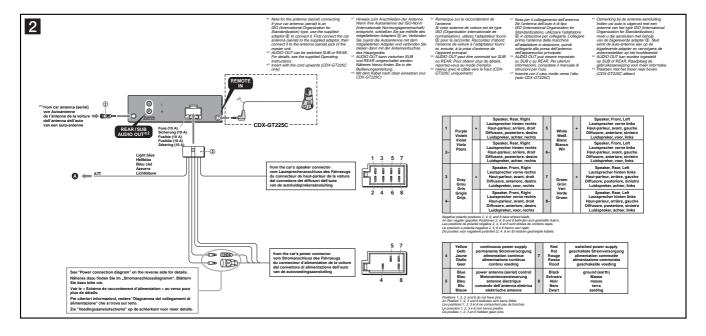
• LOCATION OF CONTROL



CONNECTIONS



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- Warning

 If you have a power antenna (acrial) without a relay box, connecting this unit with the supplied power supply lead

 ① may damage the automatic acrial). Where so the control of power supply lead

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- Warnung
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 Hinweise zum Lautsprecheranschluss

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 Hinweise zum Lautsprecheranschluss

 Hinweise Stemmensgrungsbeten mit des Lautsprecher anschließen.

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Connection diagram 2 Anschlussdiagramm 2 Schémas de raccordement 2

Avertissement

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Remarque sur le raccordement
Si les haut-parleurs ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les haut-partieurs sont raccordés correctement.

Schema di collegamento 2 Aansluitschema 2

Al cavo interfaccia di un telefono per auto Naar het interface-snoer van een autotelefoon

- Avvertenza

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Nota sui collegamenti Se il diffusore non è collegato correttamente, "FAILURE" viene visualizzato nel display. In tal caso, accertarsi che il diffusore sia

Waarschuwing

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 Opmerkingen over de bedenings- en voedlingskabels

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 Opmerkingen over de bedenings- en voedlingskabels

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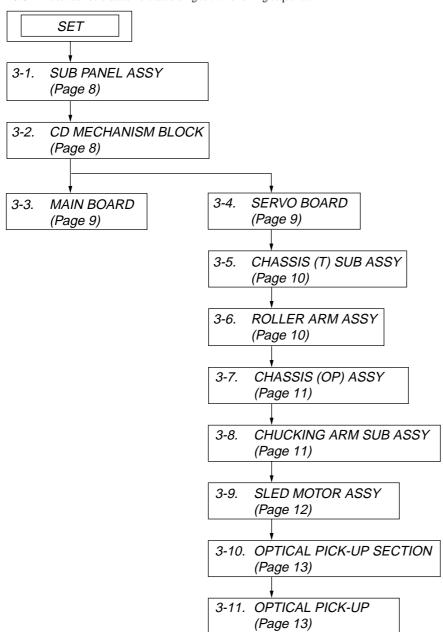
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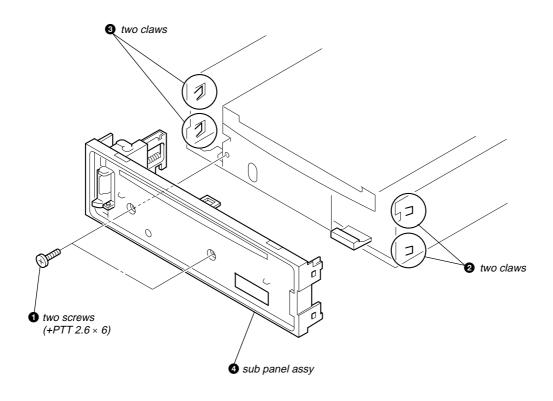
SECTION 3 DISASSEMBLY

Note: This set can be disassemble according to the following sequence.

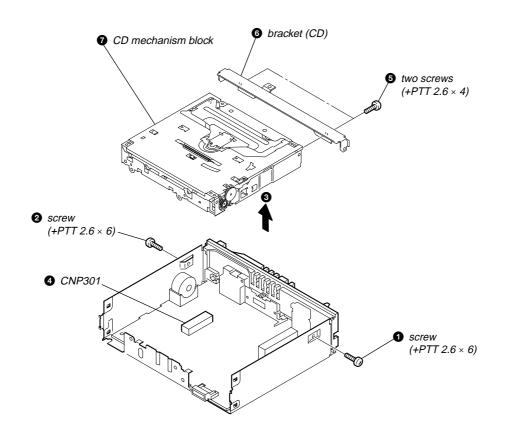


Note: Follow the disassembly procedure in the numerical order given.

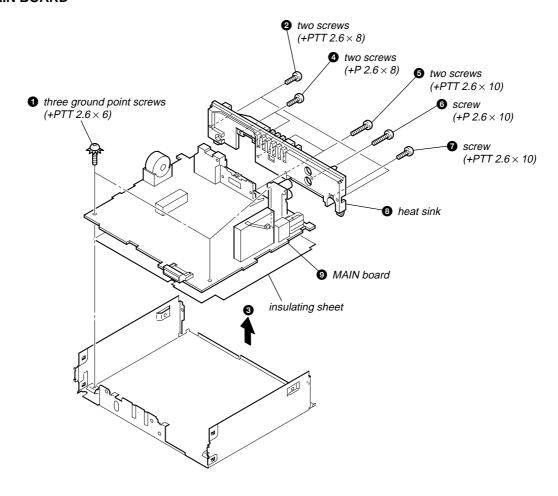
3-1. SUB PANEL ASSY



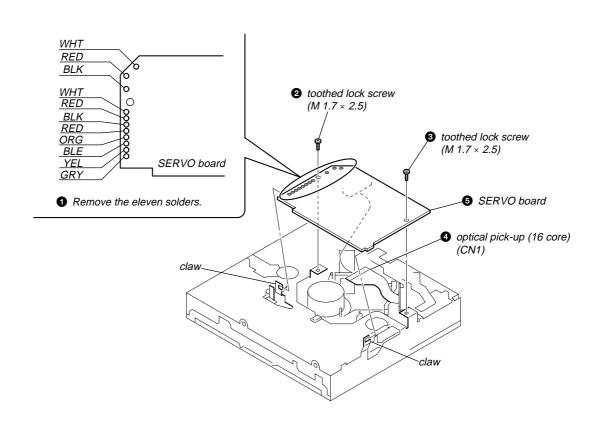
3-2. CD MECHANISM BLOCK



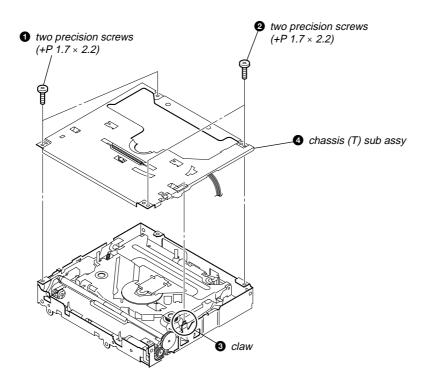
3-3. MAIN BOARD



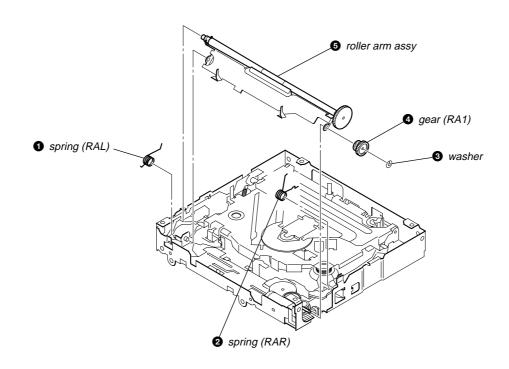
3-4. SERVO BOARD



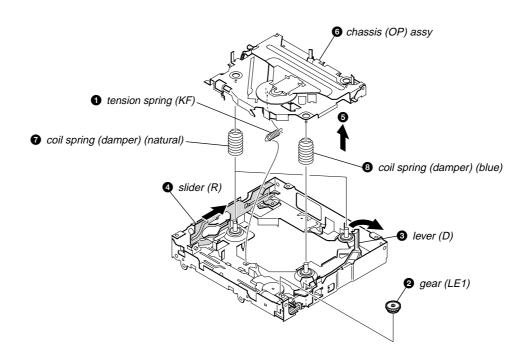
3-5. CHASSIS (T) SUB ASSY



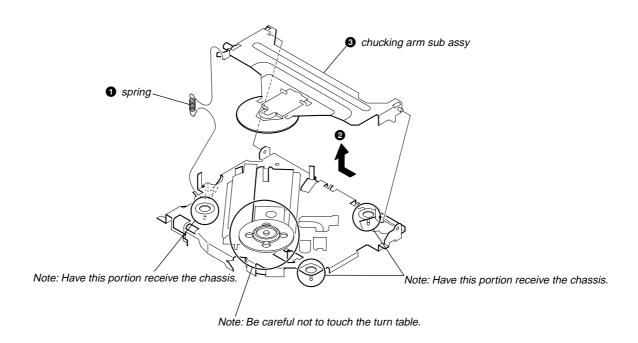
3-6. ROLLER ARM ASSY



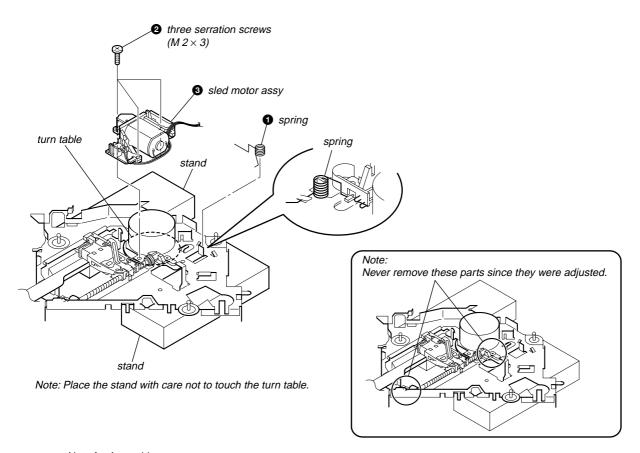
3-7. CHASSIS (OP) ASSY



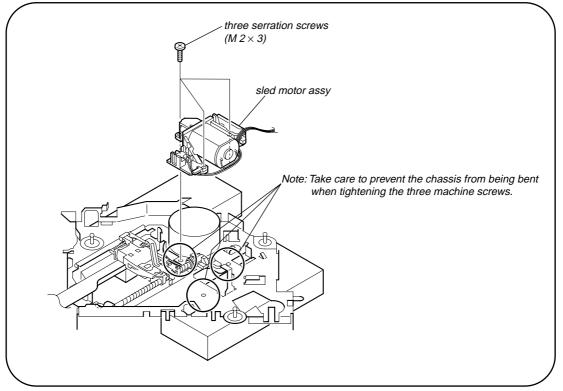
3-8. CHUCKING ARM SUB ASSY



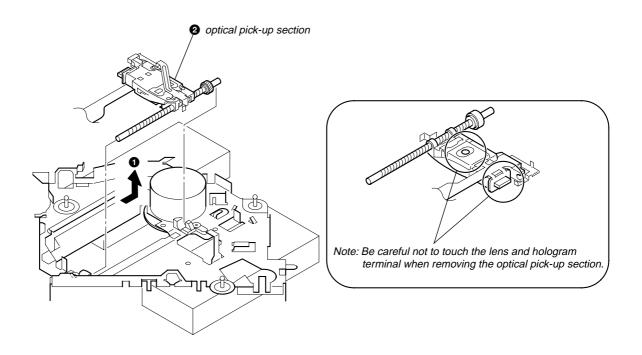
3-9. SLED MOTOR ASSY



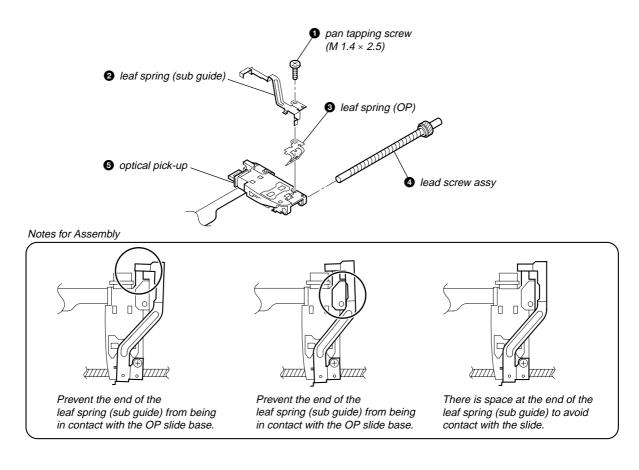
Note for Assembly



3-10. OPTICAL PICK-UP SECTION



3-11. OPTICAL PICK-UP



SECTION 4 DIAGNOSIS FUNCTION

Description of the Diagnostics function:

1. Setting the Diag display mode

With the power off, press the 4 button, 5 button, and 4 button on the set body or the remote control (for more than 2 seconds) in turn.

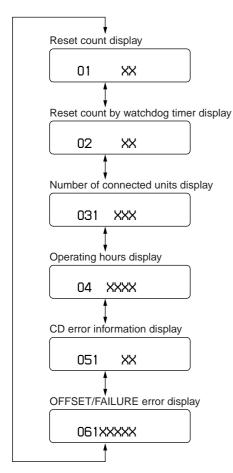
2. Canceling the Diag display mode

During the Diag function mode, press the OFF button.

3. Initial display in the Diag display mode.

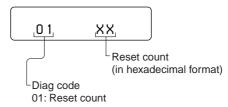
Just when the Diag mode is entered, "reset count" is displayed. The display mode is switched by each rotation of

 $\blacktriangleright \blacktriangleright \blacktriangleright \blacktriangleright \blacktriangleright \blacktriangleright \lnot / SEEK +$ or $\blacktriangleright \blacktriangleright \lnot / SEEK -$ keys.

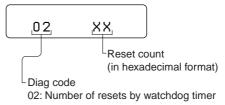


4. Contents of each display mode

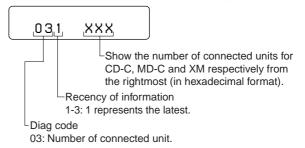
4-1. Reset count display mode



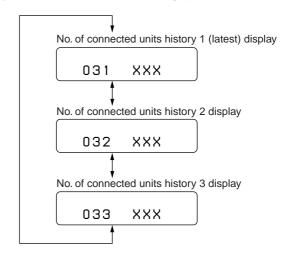
4-2. Reset count by watchdog timer display mode



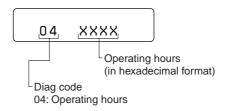
4-3. Number of connected units display mode



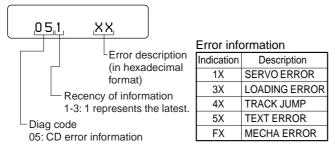
The display mode is s witched by each rotation of ② or ① keys during the number of connected units display mode.



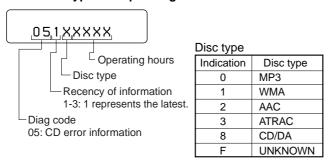
4-4. Operating hours display mode

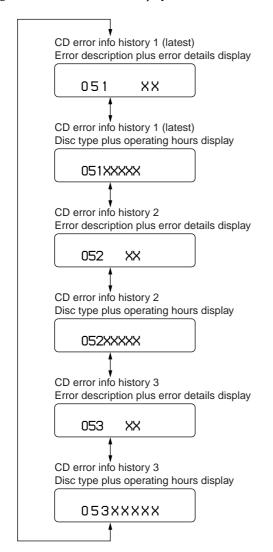


4-5. CD error information display mode 4-5-1. Error description

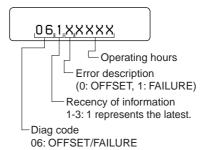


4-5-2. Disc type and operating hours

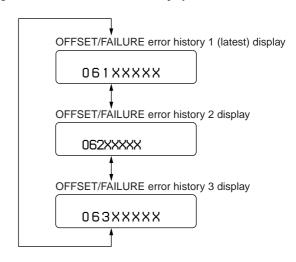




4-6. OFFSET/FAILURE error display mode



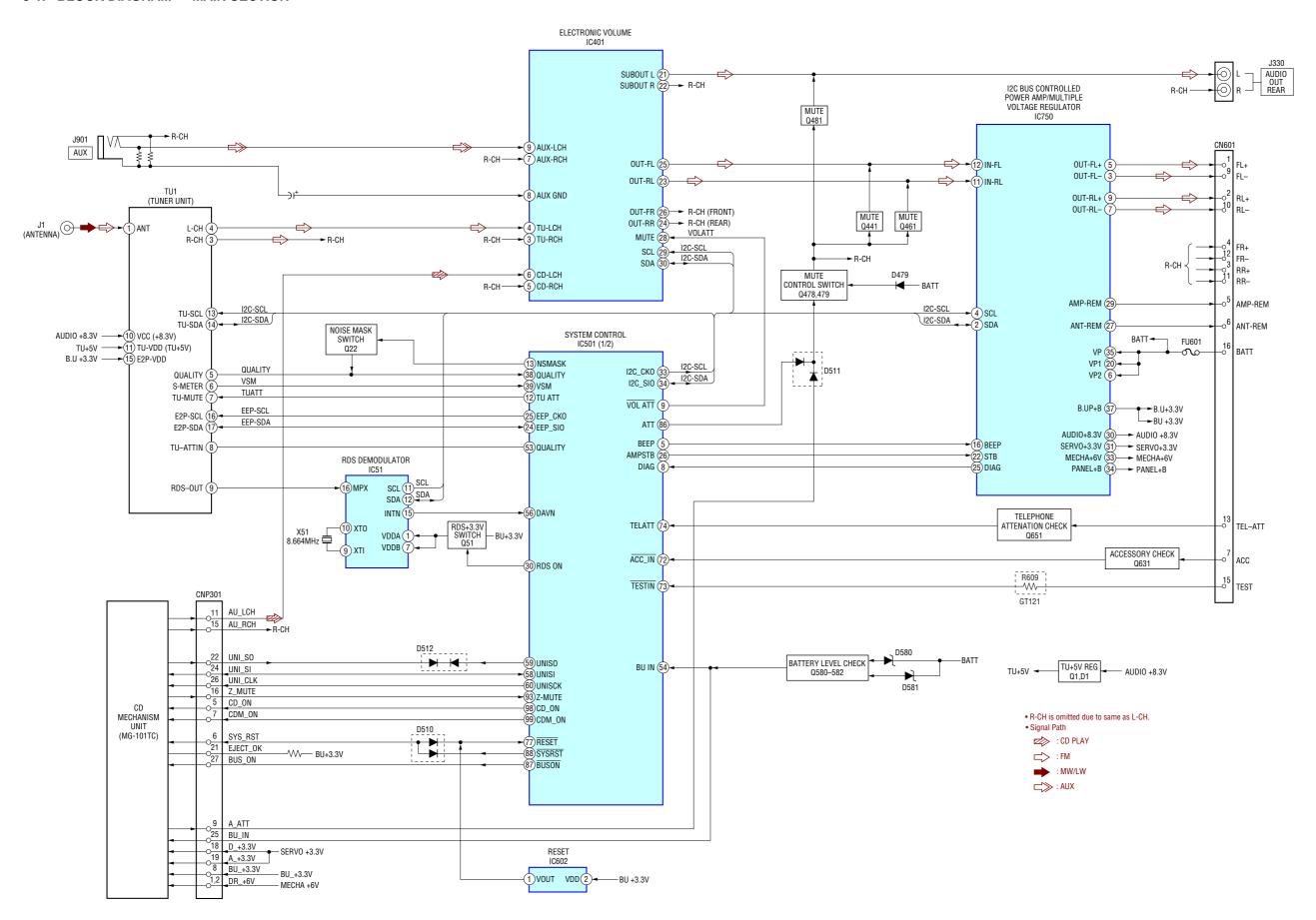
The display mode is s witched by each rotation of ② or ① keys during the OFFSET/FAILURE error display mode.



<u>MEMO</u>

SECTION 5 DIAGRAMS

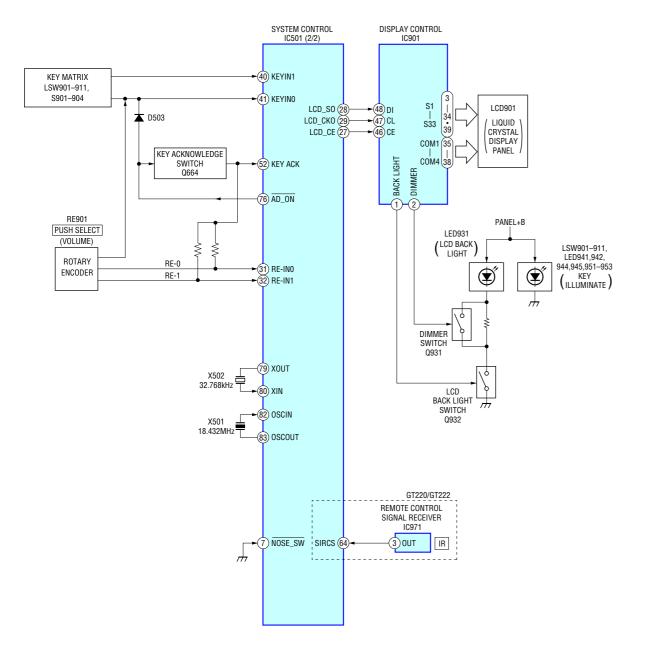
5-1. BLOCK DIAGRAM — MAIN SECTION —



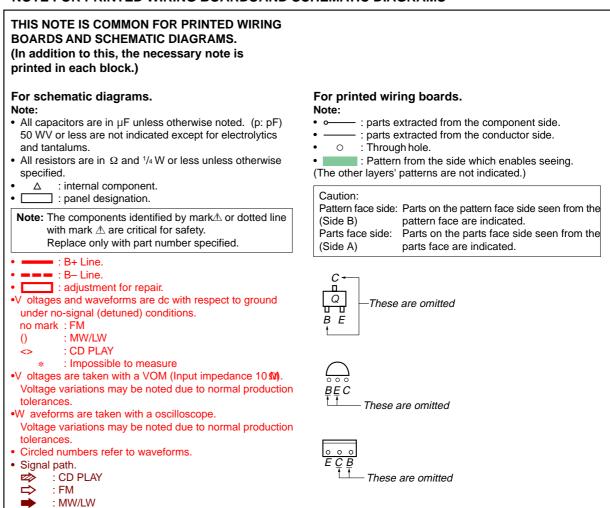
CDX-GT121/GT220/GT222

17

5-2. BLOCK DIAGRAM — DISPLAY SECTION —



• NOTE FOR PRINTED WIRING BOARDSAND SCHEMATIC DIAGRAMS

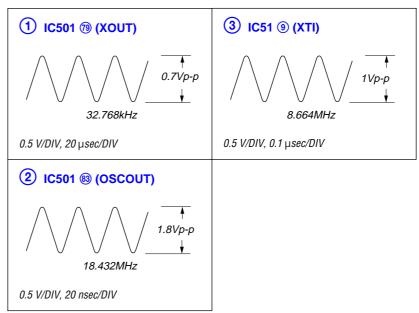


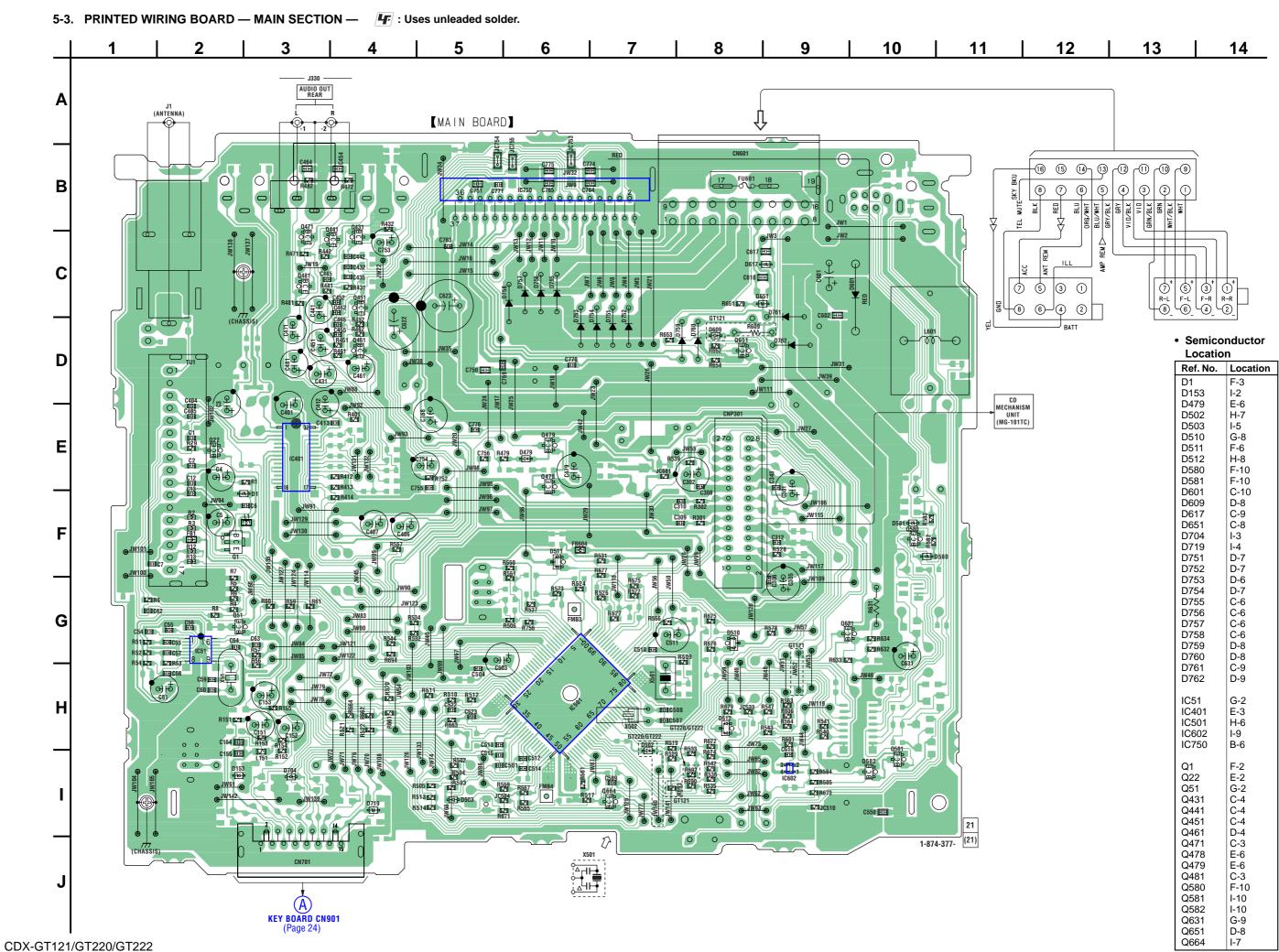
Waveforms

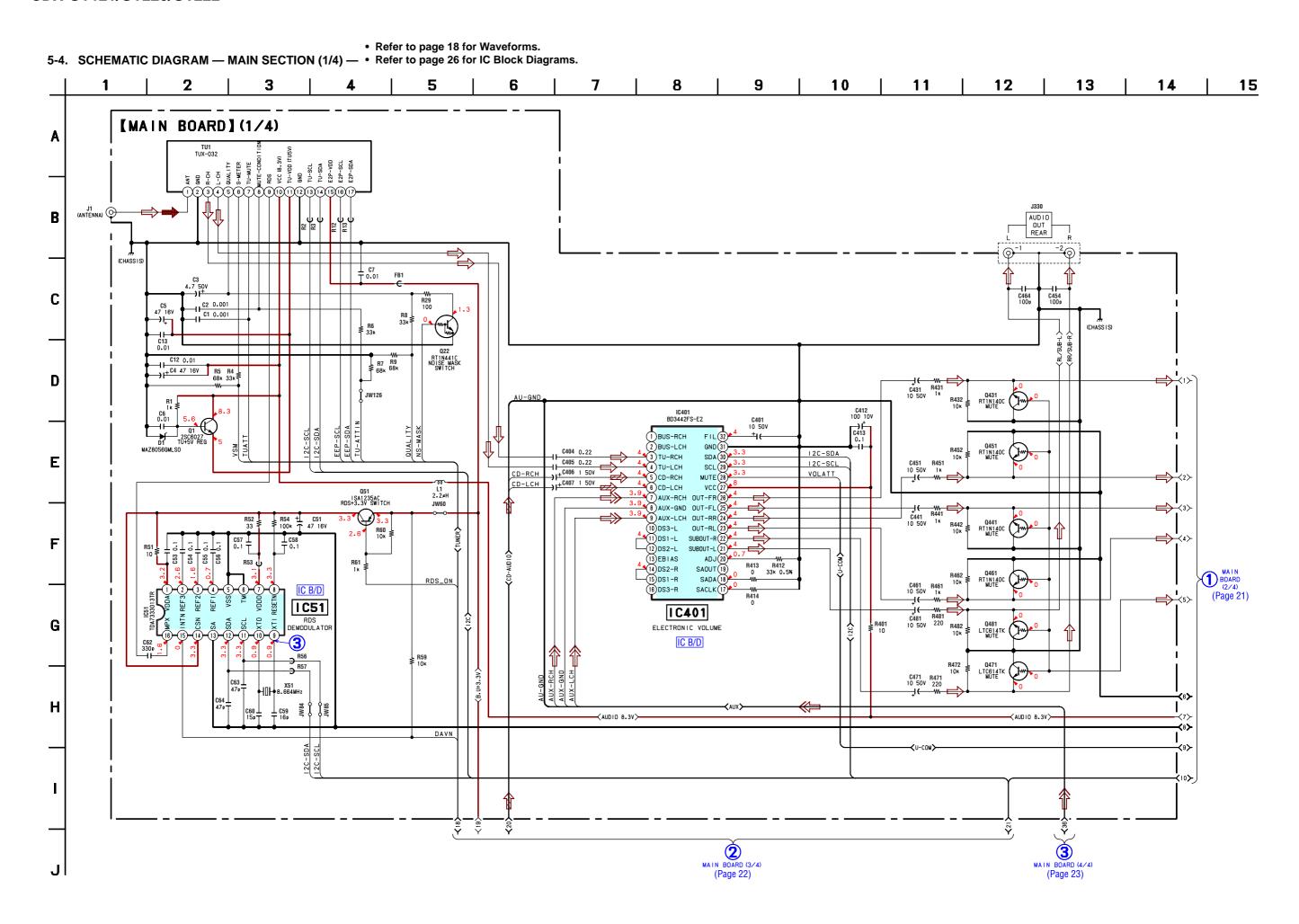
➾

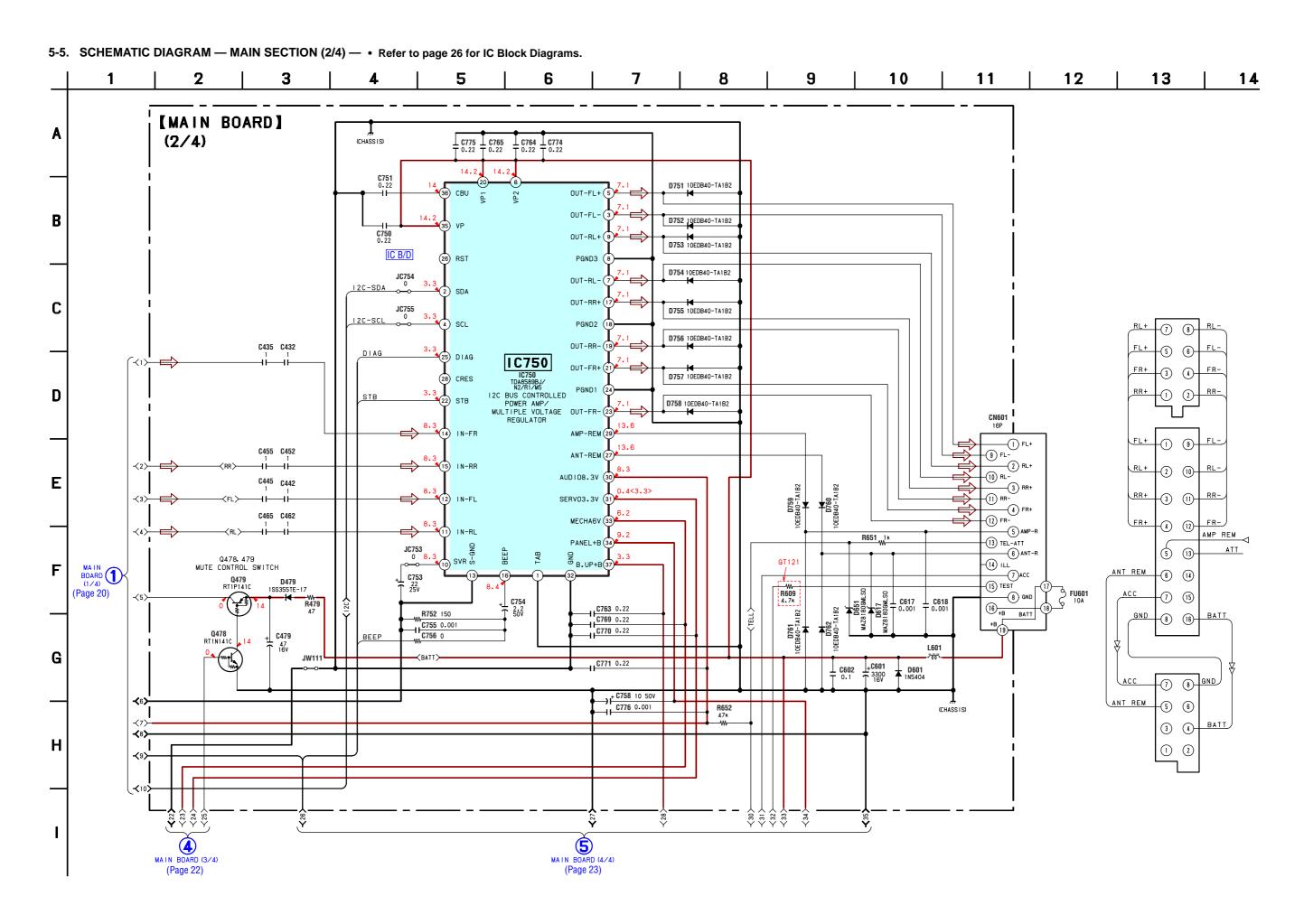
- MAIN Board -

: AUX

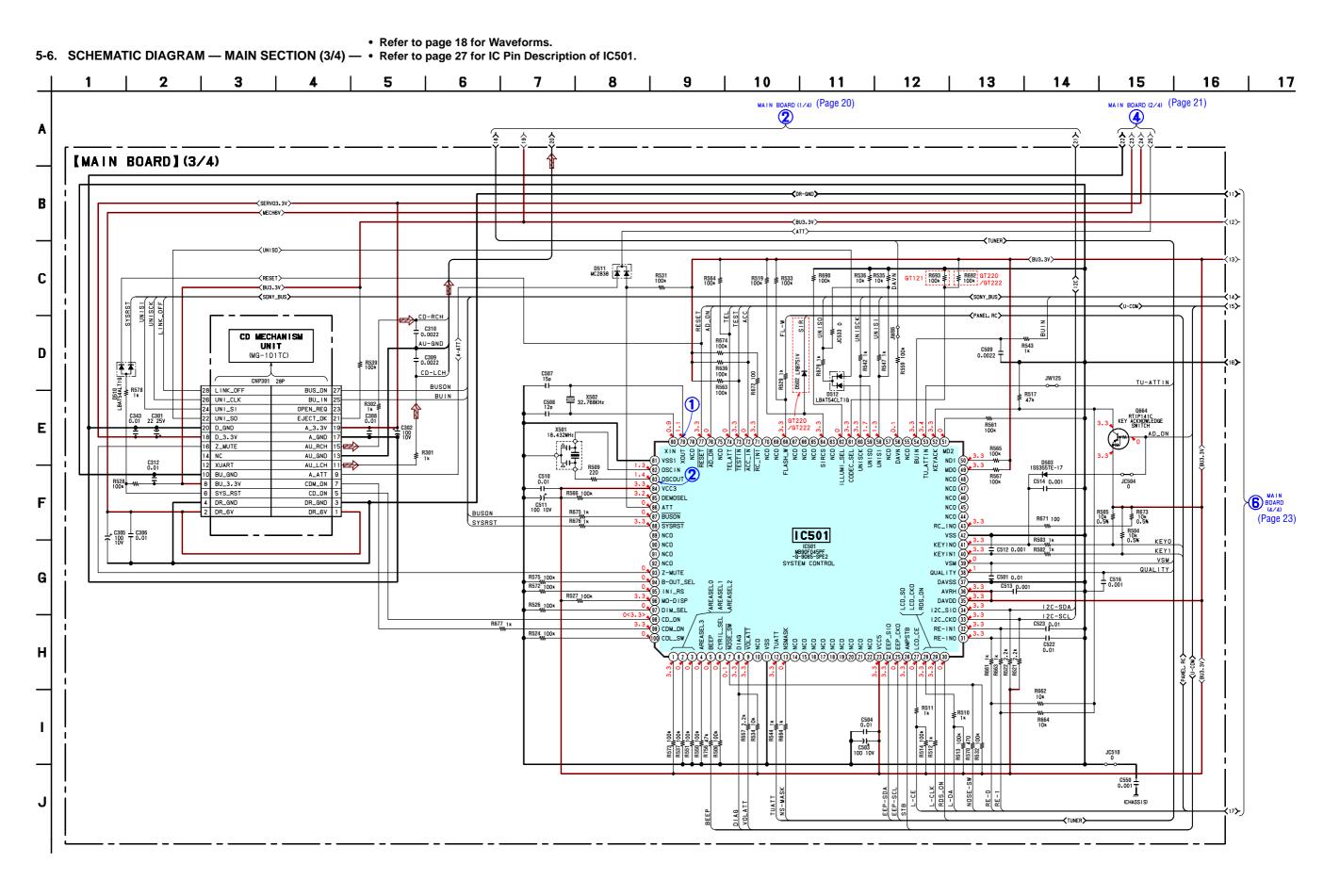




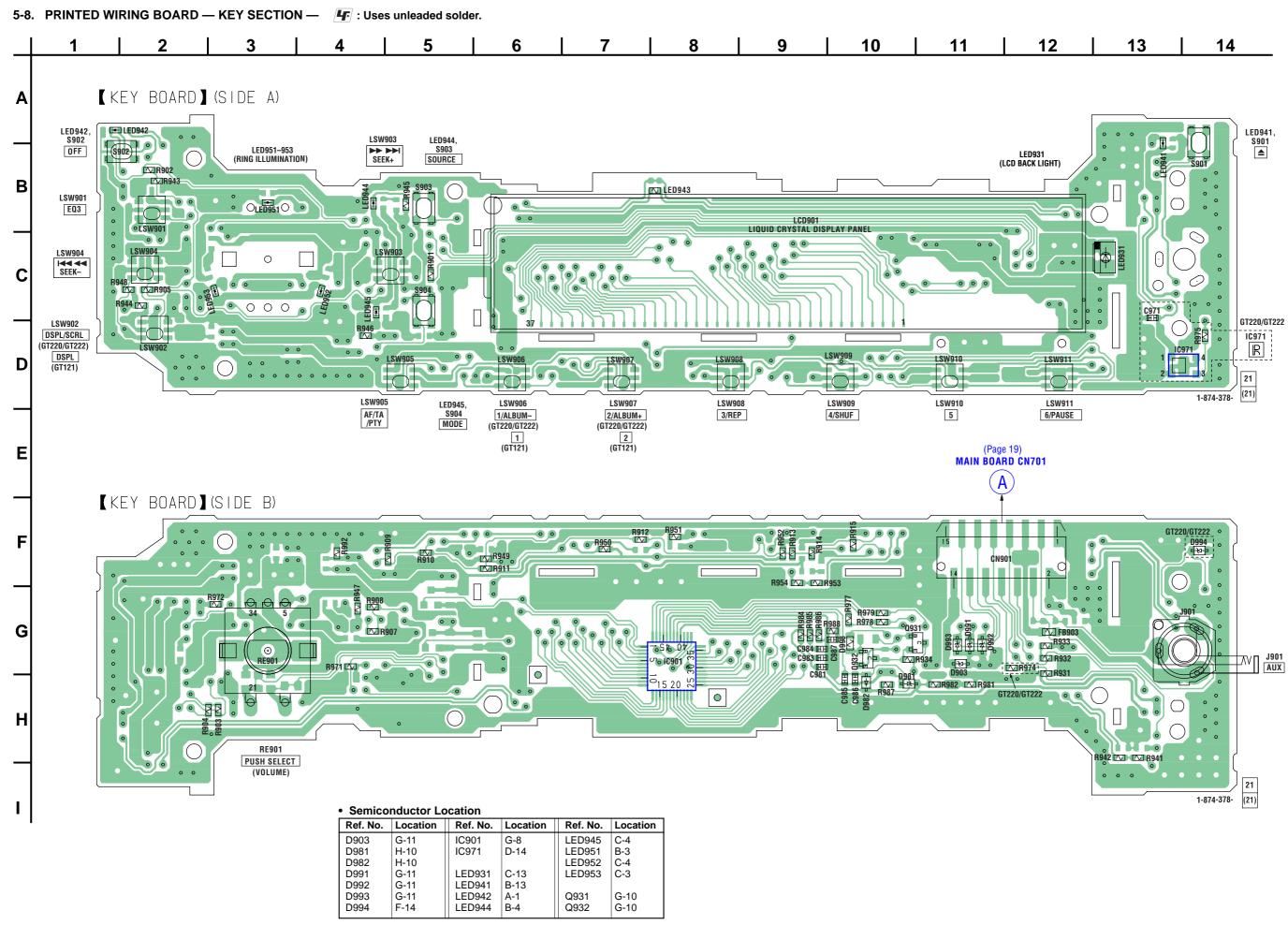


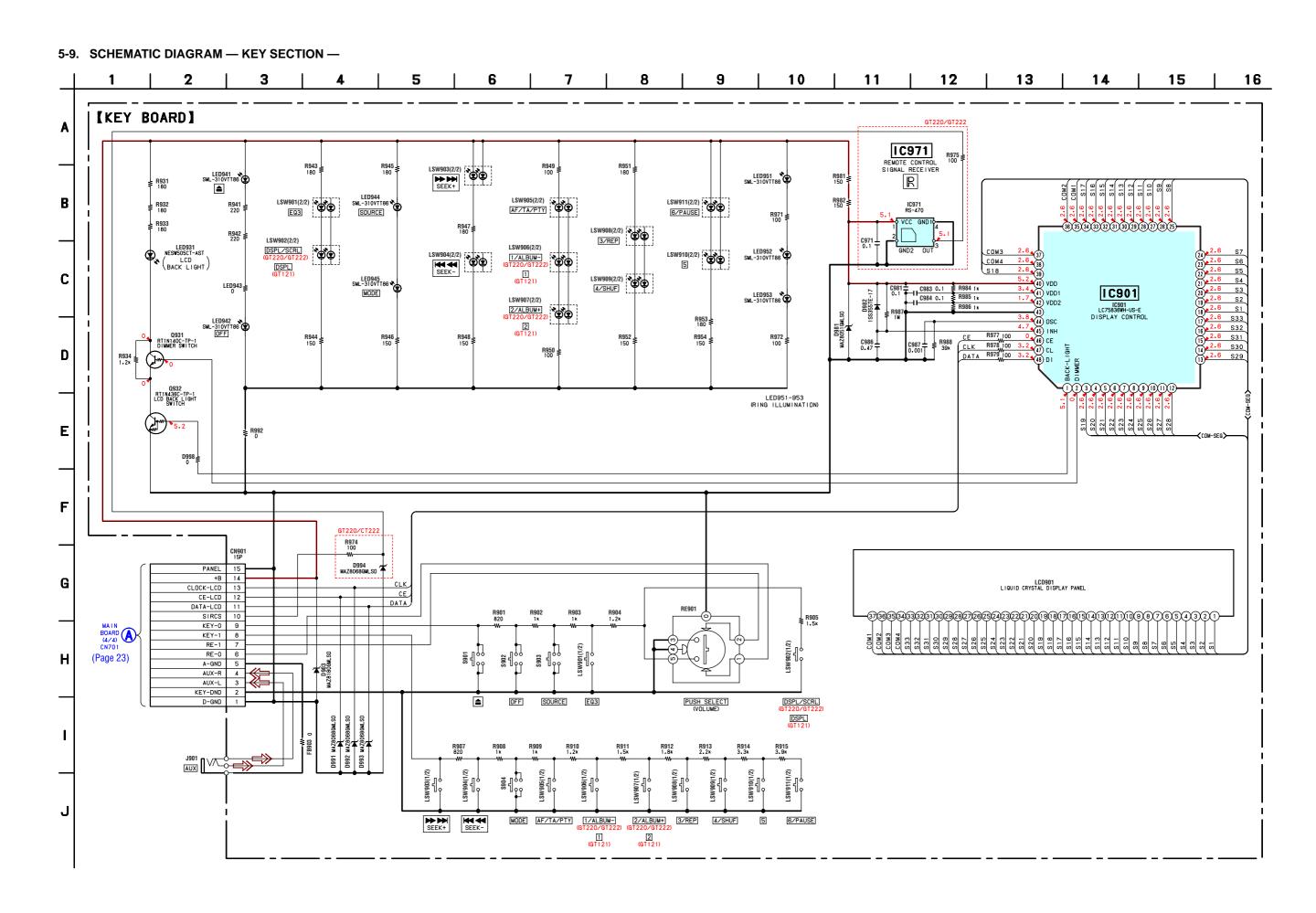


21



5-7. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) — 2 3 5 6 7 8 9 12 4 10 11 13 (Page 20) MAIN BOARD (1/4) (Page 21) MAIN BOARD (2/4) 5 3 Α **从** [MAIN BOARD](4/4) В JC681 0 **≺**13> /ACC/ /TEST/ IC602 C153+ C151 + 2.22 T 50V R153 12k F R155 2.2k ≸ IC602 XC61CN2802NR RESET C623 + 1000 T C622 T 1000 T 10V **~**14**>** D719 MAZ8180GMLSD C 3.3 VOUT VSS 4 3.3 2 VDD NC 3 -}◆-L151 R151 R152 A70 A70 A70 _____ C519 _____ 0.1 C154 0.0047 C155 0.0047 **<**16**>** CN701 15P GT121 NOSE-SW 15 PANEL JW52 —≎—≎ TEST 14 +B D L-CLK TEL 13 CLK-LCD ____ JW53 ACC L-CE 12 CE-LCD L-DA MAIN BOARD (3/4) (Page 22) DATA-LCD JW140 **R541** 100k SIR 10 SIRCS KEY0 BUSON 9 KEY-0 KEY BOARD CN901 Q631 2SC3052EF ACCESSORY CHECK R633 47k --W-KEY1 8 KEY-1 SYSRST RE-1 7 RE-1 RE-0 (Page 25) 6 RE-0 Ε 5 AUX-GND 4 AUX-RCH D153 30686ML C631 1 50V T 3 AUX-LCH R634 4.7k ≸ 2 KEY-GND 1 D-GND Q581,582 LOW VOLTAGE CHECK (CHASSIS) F **Q581** RT1N441C D580 MAZ8075GMLS0 R582 15k D581 MAZ8180GMLSO Q580 (RT1N141C OVER VOLTAGE CHECK **Q582** 2SC3052EF G -≺PANEL, RC>-

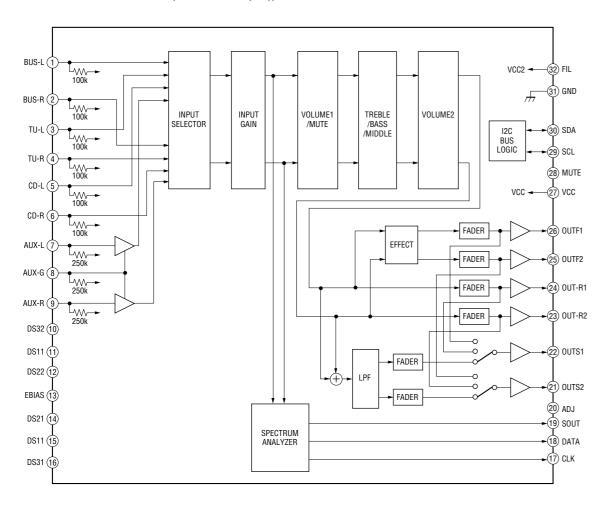




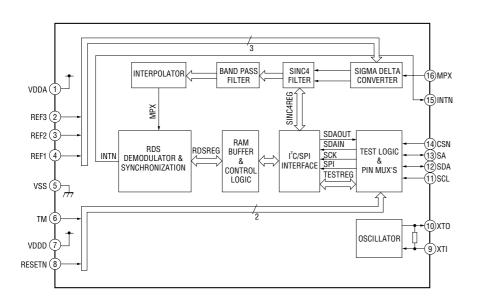
25

• IC Block Diagrams

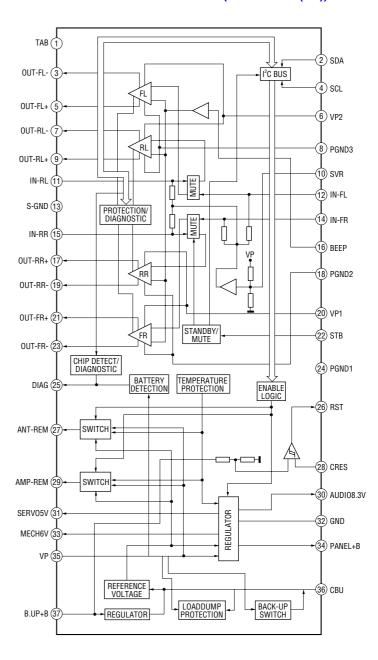
IC401 BD3442FS-E2 (MAIN Board (1/4))



IC51 TDA7333013TR (MAIN Board (1/4))



IC750 TDA8589BJ/N2/R1/M5 (MAIN Board (2/4))



• IC PIN DESCRIPTIONS

• IC501 MB90F045PF-G-9065-SPE2 (SYSTEM CONTROL) (MAIN BOARD (3/4))

Pin No.	Pin Name	Ì/O	Pin Description
1	AREASEL0	I	Destination function setting pin 0
2	AREASEL1	ı	Destination function setting pin 1
3	AREASEL2	ı	Destination function setting pin 2
4	AREASEL3	ı	Destination function setting pin 3
5	BEEP	0	BEEP signal output to power amplifier
6	CYRIL_SEL	ı	Cyril correspondence discrimination signal input "L": No correspondence
7	NOSE_SW	I	Front panel attachment detect signal input "L": Panel on, "H": Panel off
8	DIAG	I	Status signal input from power amplifier
9	VOLATT	0	Electronic volume attenuate control signal output
10	NCO	0	Not used. (Open)
11	VSS	_	Ground pin
12	TUATT	0	Tuner mute control signal output
13	NSMASK	0	Noise mask signal output
14 to 22	NCO	0	Not used. (Open)
23	VCC5	_	Power supply pin (+3.3V)
24	EEP_SIO	I/O	EEPROM bus serial data signal input/output
25	EEP_CKO	0	EEPROM bus serial clock signal output
26	AMPSTB	0	Stand-by signal output to power regulation
27	LCD_CE	0	Chip enable signal output to LCD driver
28	LCD_SO	0	Serial data signal output to LCD driver
29	LCD_CKO	0	Serial clock signal output to LCD driver
30	RDS ON	0	RDS (radio data system) ON signal output
31	RE-IN0	ı	Rotary encoder signal input 0
32	RE-IN1	ı	Rotary encoder signal input 1
33	I2C_CKO	0	I2C bus serial clock signal output
34	I2C_SIO	I/O	I2C bus serial data signal input/output
35	DAVDD	_	A/D converter power supply pin (+3.3V)
36	AVRH	_	A/D converter external reference power supply pin (+3.3V)
37	DAVSS	_	A/D converter Ground pin
38	QUALITY	ı	Noise detect signal input
39	VSM	I	S-meter voltage detect signal input
40	KEYIN1	I	Key signal input 1
41	KEYIN0	ı	Key signal input 0
42	VSS	_	Ground pin
43	RC_IN0	ı	Rotary commander key signal input Not used in this set. (Pull up)
44 to 48	NCO	0	Not used. (Open)
49	MD0	I	Operation mode setting pin 0 (Pull up)
50	MD1	I	Operation mode setting pin 1 (Pull up)
51	MD2	I	Operation mode setting pin 2 (Pull down)
52	KEYACK	I	Key acknowledgment detect signal input
53	TU_ATTIN	I	Tuner mute zero cross detect signal input
54	BUIN	I	Back-up power supply detect signal input
55	NCO	0	Not used. (Open)
56	DAVN	I	RDS data block synchronized detect signal input
57	NCO	0	Not used. (Open)
58	UNISI	I	S-BUS data signal input
59	UNISO	0	S-BUS data signal output
60	UNISCK	0	S-BUS clock signal output
		•	

Pin No.	Pin Name	I/O	Pin Description
61	CODEC_SEL	I	MP3 select signal input "H": MP3, "L": Non-MP3
62	ILLUMI SEL	I	Illumination voltage setting signal input "H": 10.4 V, "L": 9.0 V
63	NCO	0	Not used. (Open)
64	SIRCS	I	Remote control signal input
65 to 67	NCO	0	Not used. (Open)
68	FLASH_W	1	Memory mode select signal input Not used in this set. (Pull up) Normally "H" input: Single chip mode, after reset "L": Flash write mode
69, 70	NCO	0	Not used. (Open)
71	RC_IN1	I	Rotary commander shift key signal input Not used in this set. (Pull up)
72	ACC_IN	I	Accessory power supply detect signal input
73	TESTIN	I	Test mode detect signal input
74	TELATT	I	Telephone attenuate detect signal input
75	NCO	0	Not used. (Open)
76	AD_ON	0	A/D converter power supply control signal output
77	RESET	I	System reset signal input
78	NCO	0	Not used. (Open)
79	XOUT	0	Low speed operation clock signal output (32.768 kHz)
80	XIN	I	Low speed operation clock signal input (32.768 kHz)
81	VSS1	_	Ground pin
82	OSCIN	I	High speed operation clock signal input (18.432 MHz)
83	OSCOUT	0	High speed operation clock signal output (18.432 MHz)
84	VCC3	_	Power supply pin (+3.3 V)
85	DEMOSEL	I	DEMO select signal input "H": DEMO on, "L": DEMO off
86	ATT	0	Audio mute control signal output
87	BUSON	0	BUS ON signal output
88	SYSRST	0	System reset signal output
89 to 92	NCO	0	Not used. (Open)
93	Z-MUTE	I	CD zero cross mute detect signal input
94	B OUT SEL	I	Black out with/without discrimination select signal input "H": Black out
95	INI RS	I	REAR/SUB INITIAL setting signal input "H": REAR INITIAL, "L": SUB INITIAL
96	MO-DISP	I	Motion display signal input "H": Motion display on, "L": Motion display off
97	DIM_SEL	ı	Dimmer select signal input "H": Dimmer, "L": No dimmer Not used in this set. (Pull down)
98	CD_ON	I	CD mechanism servo power supply control request signal input
99	CDM_ON	ı	CD mechanism deck power supply control request signal input
100	COL_SW	ı	Illumination color select signal input Not used in this set. (Pull down) "H": Two colors selection/initial slave, amber, "L": Color/slave, amber

SECTION 6 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example :

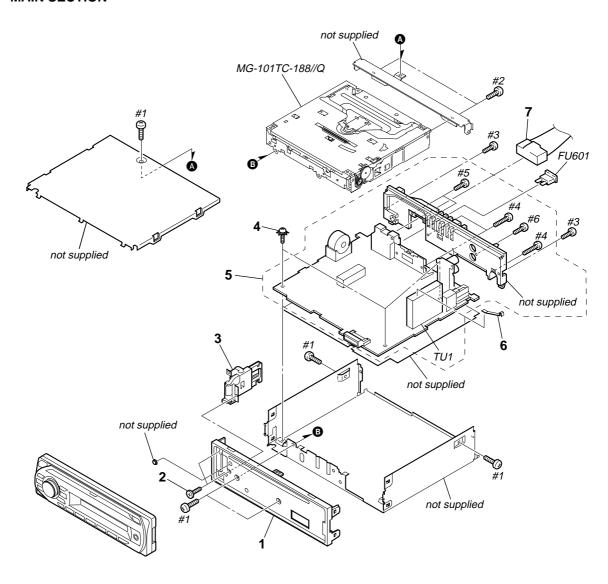
KNOB, BALANCE (WHITE) ... (RED)

Parts Color Cabinet's Color

• Accessories are given in the last of this pats list.

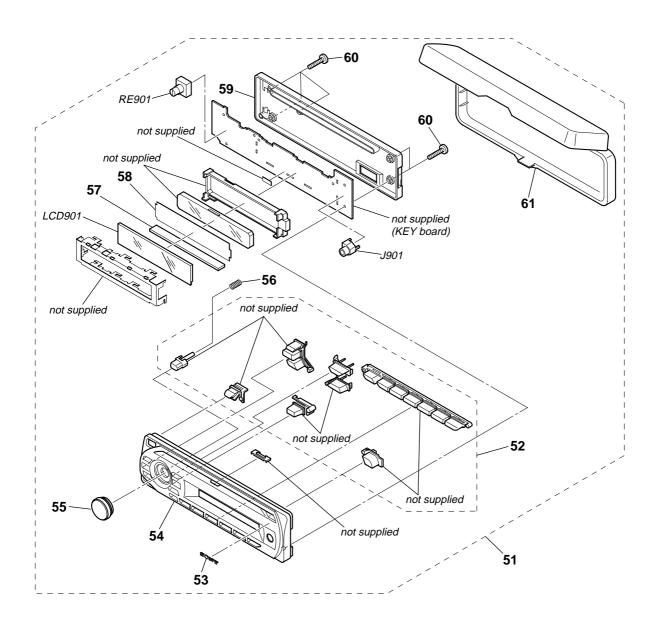
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

6-1. MAIN SECTION



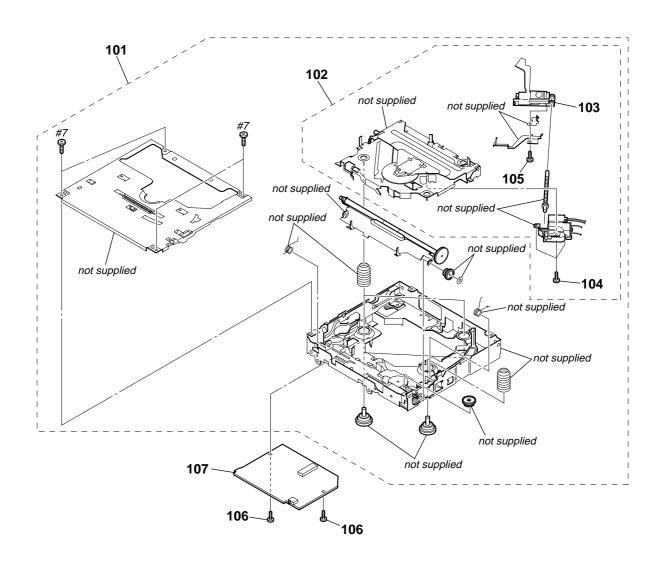
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
1	X-2186-975-1	PANEL ASSY, SUB		FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10	JΑ
23	-042-244-11	SCREW (T)		TU1	A-3220-961-B	TUNER UNIT (TUX-032)	
3	X-2108-670-1	LOCK ASSY (S)		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
43	-376-464-11	SCREW (+PTT 2.6X6), GROUND POIN	T	#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
5	A-1313-874-A	MAIN BOARD, COMPLETE (GT220/GT	222)	#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
5	A-1313-999-A	MAIN BOARD, COMPLETE (GT121)		#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
62	-021-848-01	SHEET (TU), GROUND		#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
71	-831-838-11	CORD (WITH CONNECTOR) (ISO) (PO	WER)	#6	7-621-284-40	SCREW +P 2.6X10	

6-2. FRONT PANEL SECTION



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
51	A-1313-876-A	PANEL COMPLETE ASSY, FRONT (G	T220)	56	2-639-881-01	SPRING (RELEASE)	
51	A-1313-970-A	PANEL COMPLETE ASSY, FRONT (G	T222)	57	1-780-533-21	CONDUCTIVE BOARD, CONNECTION	
51	A-1314-001-A	PANEL COMPLETE ASSY, FRONT (G	T121)	58	3-214-259-11	ILLUMINATOR (LCD)	
52	X-2179-451-1	BUTTON ASSY (S)		59	3-214-246-01	PANEL, BACK	
53	3-251-320-01	EMBLEM (NO. 2.5), SONY		60	3-250-543-21	SCREW (+B P-TITE M2)	
54	X-2179-388-1	PANEL SUB ASSY, FRONT (GT121)		61	X-2149-228-2	CASE ASSY (for FRONT PANEL)	
54	X-2179-389-1	PANEL SUB ASSY, FRONT (GT220)				(GT2	20/GT222)
54	X-2179-465-1	PANEL SUB ASSY, FRONT (GT222)		J901	1-820-624-11	SMALL TYPE JACK (VERTICAL) (AUX)
55	X-2179-452-1	KNOB (VOL) (SV) ASSY (GT220/GT2	222)	LCD901	1-802-511-11	DISPLAY PANEL, LIQUID CRYSTAL	
55	X-2186-464-1	KNOB (VOL) (SV) ASSY (GT121)		RE901	1-479-902-21	ENCODER, ROTARY (PUSH SELECT/V	OLUME)

6-3. CD MECHANISM SECTION (MG-101TC-188//Q)



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No	<u>. Part No.</u>	<u>Description</u>	<u>Remark</u>
101	A-1289-450-A	MECHANICAL BLOCK ASSY (08)		105	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
102	A-1284-705-A	DAXEV08//Q		106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
103 △	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)		107	A-1177-201-A	SERVO BOARD, COMPLETE	
104	2-626-869-01	SCREW (M2X3), SERRATION		#7	7-627-000-08	SCREW, PRECISION +P 1.7X2.2 TYPE	3



SECTION 7 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms.
 METAL:Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

F:nonflammable

 Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.

SEMICONDUCTORS
 In each case, u : μ, for example:
 uA.. : μA.. uPA.. : μPA..
 uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..

 CAPACITORS uF: μF
 COILS uH: μH The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	Description		<u>Remark</u>
		KEY BOARD *******				LED SML-310VTT8 LED SML-310VTT8		
				LED943	1-216-864-11	SHORT CHIP 0	, ,	
		CONDUCTIVE BOARD, CONNECTION				LED SML-310VTT8		
	3-214-239-11	ILLUMINATOR (LCD)		LED945	8-719-053-09	LED SML-310VTT8	o (MODE)	
		< CAPACITOR >				LED SML-310VTT8		
C971	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V			LED SML-310VTT8 LED SML-310VTT8		
		(GT	220/GT222)	LLDOOD	0 7 10 000 00		o (mila illo)	
C981 C983		CERAMIC CHIP 0.1uF 10% CERAMIC CHIP 0.1uF 10%	16V 16V			< SWITCH >		
C984		CERAMIC CHIP 0.1uF 10%	16V	LSW901	1-786-805-12	SWITCH, TACTILE (V	NITH LED) (E(Q3)
C986	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V			SWITCH, TACTILE (V		SPL)
C987	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	L SW902	1-786-805-12	SWITCH, TACTILE (V	MITH LED) (D!	(GT121) SPL/SCBL)
0001	1 102 301 11	OLIVINIO OTIII 0.001di 1070	001			•	(0	GT220/GT222)
		< CONNECTOR >		LSW903	1-786-805-12	SWITCH, TACTILE (V	,	►► SEEK+)
CN901	1-819-758-12	PLUG, CONNECTOR 15P		LSW904	1-786-805-12	SWITCH, TACTILE (V		SEER+)
		DIODE					(I◄◄	■ ■ SEEK-)
		< DIODE >		LSW905	1-786-805-12	SWITCH, TACTILE (V	NITH LED) (AF	-/TA/PTY)
D903		DIODE MAZ8180GMLS0		LSW906	1-786-805-12	SWITCH, TACTILE (V	NITH LED) (1)	(GT121)
D981 D982		DIODE MAZ8051GMLS0 DIODE 1SS355TE-17		LSW906	1-786-805-12	SWITCH, TACTILE (V	, ,	ALBUM-) GT220/GT222)
D902 D991		DIODE MAZ8068GMLS0		LSW907	1-786-805-12	SWITCH, TACTILE (V	(-	,
D992	6-501-743-01	DIODE MAZ8068GMLS0				SWITCH, TACTILE (V	NITH LED) (2/	ALBUM+)
D993	6-501-743-01	DIODE MAZ8068GMLS0					(6	GT220/GT222)
D994	6-501-743-01	DIODE MAZ8068GMLS0 (GT220/GT	222)			SWITCH, TACTILE (V		
D998	1-216-295-11	SHORT CHIP 0				SWITCH, TACTILE (V SWITCH, TACTILE (V		
		< JUMPER RESISTOR >				SWITCH, TACTILE (V		
FD000	1 010 005 11	CHORT CHIR				. TDANCICTOD .		
FB903	1-216-295-11	SHORT CHIP 0				< TRANSISTOR >		
		< IC >		Q931		TRANSISTOR DTC1		
IC901	6-710-047-01	IC LC75836WH-US-E		Q932	6-551-444-01	TRANSISTOR RT1N	1436U-1P-1	
IC971	6-600-629-01	IC RS-470 (IR) (GT220/GT222)				< RESISTOR >		
		< JACK >		R901	1-216-820-11	METAL CHIP 82	20 5%	1/10W
			_	R902	1-216-821-11	METAL CHIP 11	K 5%	1/10W
J901	1-820-624-11	SMALL TYPE JACK (VERTICAL) (AUX	()	R903 R904	1-216-821-11 1-216-822-11		K 5% .2K 5%	1/10W 1/10W
		< LIQUID CRYSTAL DISPLAY >		R905	1-216-823-11		.5K 5%	1/10W
I (`DQD1	1-802-511-11	DISPLAY PANEL, LIQUID CRYSTAL		R907	1-216-820-11	METAL CHIP 82	20 5%	1/10W
LODGOT	1 002 JII-II			R908	1-216-821-11	METAL CHIP 11	K 5%	1/10W
		< DIODE >		R909	1-216-821-11		K 5%	1/10W
LED931	6-501-339-01	LED NESW505CT-AST (LCD BACK I	_IGHT)	R910 R911	1-216-822-11 1-216-823-11		.2K 5% .5K 5%	1/10W 1/10W
			,					• •

KEY MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		•	4.017	5 0/		1101. 140.			ONADLETE (O	T000/0	
R912	1-216-824-11	METAL CHIP	1.8K	5%	1/10W		A-1313-874-A	,			1222)
R913	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		A-1313-999-A	MAIN BOARD, CO	`	11121)	
R914	1-216-827-11	METAL CHIP	3.3K	5%	1/10W			****	****		
R915	1-216-828-11	METAL CHIP	3.9K	5%	1/10W		7 001 004 40	CCDEW . D O CV	10		
R931	1-216-812-11	METAL CHIP	180	5%	1/10W		7-621-284-40	SCREW +P 2.6X1		NI CLIT	
D000	1 010 010 11	METAL OLUB	400	F0/	4 /4 OM		7-685-134-19	SCREW +P 2.6X8		N-SLII	
R932	1-216-812-11	METAL CHIP	180	5%	1/10W		7-685-794-09	SCREW +PTT 2.6	X10 (S)		
R933	1-216-812-11	METAL CHIP	180	5%	1/10W			OADAOITOD			
R934	1-216-822-11	METAL CHIP	1.2K	5%	1/10W			< CAPACITOR >			
R941	1-216-813-11	METAL CHIP	220	5%	1/10W	0.4	1 100 001 11	OED AMAG OLUB	0.004 5	400/	E01/
R942	1-216-813-11	METAL CHIP	220	5%	1/10W	C1	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
D040	1 010 010 11	METAL OLUB	400	F0/	4 /4 OVA	C2	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R943	1-216-812-11	METAL CHIP	180	5%	1/10W	C3	1-126-963-11	ELECT	4.7uF	20%	50V
R944	1-216-811-11	METAL CHIP	150	5%	1/10W	C4	1-126-947-11	ELECT	47uF	20%	35V
R945	1-216-812-11	METAL CHIP	180	5%	1/10W	C5	1-126-947-11	ELECT	47uF	20%	35V
R946	1-216-811-11	METAL CHIP	150	5%	1/10W	00	4 400 070 44	OED AMAG OLUB	0.04 5	400/	05)/
R947	1-216-812-11	METAL CHIP	180	5%	1/10W	C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
D0.40	1 010 011 11	METAL OLUB	450	50 /	4 (4 0) M	C7	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R948	1-216-811-11	METAL CHIP	150	5%	1/10W	C12	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R949	1-216-809-11	METAL CHIP	100	5%	1/10W	C13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R950	1-216-809-11	METAL CHIP	100	5%	1/10W	C51	1-126-947-11	ELECT	47uF	20%	35V
R951	1-216-812-11	METAL CHIP	180	5%	1/10W						
R952	1-216-811-11	METAL CHIP	150	5%	1/10W	C53	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C54	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R953	1-216-812-11	METAL CHIP	180	5%	1/10W	C55	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R954	1-216-811-11	METAL CHIP	150	5%	1/10W	C56	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R971	1-216-809-11	METAL CHIP	100	5%	1/10W	C57	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R972	1-216-809-11	METAL CHIP	100	5%	1/10W						
R974	1-216-809-11	METAL CHIP	100	5%	1/10W	C58	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
				(GT	220/GT222)	C59	1-164-237-11	CERAMIC CHIP	16PF	5%	50V
						C60	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
R975	1-216-809-11	METAL CHIP	100	5%	1/10W	C62	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
					220/GT222)	C63	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
R977	1-216-809-11	METAL CHIP	100	5%	1/10W						
R978	1-216-809-11	METAL CHIP	100	5%	1/10W	C64	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
R979	1-216-809-11	METAL CHIP	100	5%	1/10W	C151	1-126-960-11	ELECT	1uF	20%	50V
R981	1-216-811-11	METAL CHIP	150	5%	1/10W	C152	1-126-960-11	ELECT	1uF	20%	50V
						C153	1-126-961-11	ELECT	2.2uF	20%	50V
R982	1-216-811-11	METAL CHIP	150	5%	1/10W	C154	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
R984	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W	C155	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W	C301	1-124-248-00	ELECT	22uF	20%	25V
R987	1-216-857-11	METAL CHIP	1M	5%	1/10W	C302	1-124-584-00	ELECT	100uF	20%	10V
						C305	1-124-584-00		100uF	20%	10V
R988	1-216-840-11		39K	5%	1/10W	C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R992	1-216-864-11	SHORT CHIP	0								
						C308	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< ROTARY ENC	ODER >			C309	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C310	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
RE901	1-479-902-21	ENCODER, ROT	ARY (PUSH	I SELECT/	VOLUME)	C312	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C343	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< SWITCH >									
						C401	1-126-964-11		10uF	20%	50V
S901	1-786-653-11	SWITCH, TACTI	LE (▲)			C404	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
S902	1-786-653-11	SWITCH, TACTI				C405	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
S903	1-786-653-11	SWITCH, TACTI	LE (SOURC	E)		C406	1-126-160-11	ELECT	1uF	20%	50V
S904	1-786-653-11	SWITCH, TACTI	LE (MODE)			C407	1-126-160-11	ELECT	1uF	20%	50V
******	******	*********	*****	*****	******						
						C412	1-104-665-11	ELECT	100uF	20%	25V
						C413	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C431	1-126-964-11		10uF	20%	50V
						C432	1-165-908-11		1uF	10%	10V
						C435	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
										-	
						C441	1-126-964-11	ELECT	10uF	20%	50V
						C442	1-165-908-11		1uF	10%	10V
						C445	1-165-908-11		1uF	10%	10V
						C451	1-126-964-11		10uF	20%	50V
						C452	1-165-908-11	CERAMIC CHIP	1uF	10%	10V

MAIN

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
C454	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D502	6-502-131-01	DIODE LRB751	IV-40T1G (GT220/GT222)
C455		CERAMIC CHIP	1uF	10%	10V	D503	8-719-988-61	DIODE 1SS355	
C461	1-126-964-11		10uF	20%	50V	D510	6-501-656-01	DIODE LBAT54	
C462		CERAMIC CHIP	1uF	10%	10V	D511	6-500-335-01	DIODE MC2838	
C464	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D512	6-501-654-01	DIODE LBAT54	CLI1G
C465	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	D580	6-501-747-01	DIODE MAZ80	75GMLS0
C471	1-126-964-11	ELECT	10uF	20%	50V	D581	6-501-782-01	DIODE MAZ818	80GMLS0
C479	1-124-589-11		47uF	20%	16V	D601	6-501-571-01	DIODE 1N5404	
C481	1-126-964-11		10uF	20%	50V	D609	6-501-743-01		68GMLS0 (GT121)
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D617	6-501-782-01	DIODE MAZ818	80GML50
C503	1-124-584-00		100uF	20%	10V	D651	6-501-782-01	DIODE MAZ818	
C504		CERAMIC CHIP	0.01uF	10%	25V	D704	6-501-743-01	DIODE MAZ80	
C507		CERAMIC CHIP	15PF	5%	50V	D719	6-501-782-01	DIODE MAZ818	
C508 C509		CERAMIC CHIP CERAMIC CHIP	12PF 0.0022uF	5% 10%	50V 50V	D751 D752	6-500-522-01 6-500-522-01	DIODE 10EDB4	
0303	1-102-300-11	OLITAWIO OTIII	0.002241	10 /0	30 V	0732	0-300-322-01	DIODE TOEDDA	10-1A102
C510		CERAMIC CHIP	0.01uF	10%	25V	D753	6-500-522-01	DIODE 10EDB4	
C511	1-124-584-00		100uF	20%	10V	D754	6-500-522-01	DIODE 10EDB4	
C512 C513		CERAMIC CHIP CERAMIC CHIP	0.001uF 0.001uF	10% 10%	50V 50V	D755 D756	6-500-522-01 6-500-522-01	DIODE 10EDB4	
C513		CERAMIC CHIP	0.001uF 0.001uF	10%	50V 50V	D756 D757	6-500-522-01	DIODE 10EDB4	
0314	1-102-304-11	OLITAWIO OTIII	0.00141	10 /0	30 V	0131	0-300-322-01	DIODE TOEDDA	10-1A102
C516		CERAMIC CHIP	0.001uF	10%	50V	D758	6-500-522-01	DIODE 10EDB4	
C519		CERAMIC CHIP	0.1uF	10%	16V	D759	6-500-522-01	DIODE 10EDB4	
C522 C523		CERAMIC CHIP CERAMIC CHIP	0.01uF 0.01uF	10% 10%	25V 25V	D760 D761	6-500-522-01 6-500-522-01	DIODE 10EDB4	
C523		CERAMIC CHIP	0.01uF 0.001uF	10%	25V 50V	D761 D762	6-500-522-01	DIODE 10EDB4	
0000	1 102 304 11	OLITAWIO OTIII	0.00141	10 /0	30 V	D102	0 300 322 01	DIODE TOLDD-	TO INIDE
C601	1-112-302-11		3300uF	20%	16V			< FERRITE BEAL)>
C602		CERAMIC CHIP	0.1uF	400/	50V	ED4	1 500 045 44	INDUOTOD FED	UDITE DEAD
C617 C618		CERAMIC CHIP CERAMIC CHIP	0.001uF 0.001uF	10% 10%	50V 50V	FB1 FB604	1-500-245-11 1-500-245-11	INDUCTOR, FER INDUCTOR, FER	
C622	1-126-926-11		1000uF	20%	10V	1 0004	1-300-243-11	INDOOTOR, I EN	ITITE DEAD
			.0004.					< IC >	
C623	1-126-926-11		1000uF	20%	10V				
C631	1-126-160-11	CERAMIC CHIP	1uF 0.22uF	20% 10%	50V 25V	IC51		IC TDA7333013	
C750 C751		CERAMIC CHIP	0.22uF 0.22uF	10%	25V 25V	IC401 IC501		IC BD3442F3-6	
C753	1-128-551-11		22uF	20%	63V	IC602	6-709-458-01	IC XC61CN280	
						IC750		IC TDA8589BJ	
C754	1-124-257-00		2.2uF	20%	50V			. 1401/.	
C755 C756	1-162-964-11	CERAMIC CHIP	0.001uF 0	10%	50V			< JACK >	
C758	1-124-261-00		10uF	20%	50V	J1	1-815-185-13	JACK (ANTENNA	4)
C763	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	J330	1-774-698-11		NÚDIO OUT REAR)
C764	1_115_2/10_11	CERAMIC CHIP	0.22uF	10%	25V			< JUMPER RESI	ICTOD
C765		CERAMIC CHIP	0.22uF	10%	25V 25V			C JUINIT LIT ITLS	310117
C769		CERAMIC CHIP	0.22uF	10%	16V	JC504	1-216-864-11	SHORT CHIP	0
C770	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	JC510	1-216-864-11	SHORT CHIP	0
C771	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	JC533	1-216-864-11	SHORT CHIP	0
0774	4 445 040 44	OED ANNO OLUD	0.00 5	400/	051/	JC681	1-216-864-11		0
C774 C775		CERAMIC CHIP CERAMIC CHIP	0.22uF 0.22uF	10% 10%	25V 25V	JC753	1-216-296-11	SHORT CHIP	0
C776		CERAMIC CHIP	0.22ui 0.001uF	10%	50V	JC754	1-216-296-11	SHORT CHIP	0
• • • • • • • • • • • • • • • • • • • •						JC755	1-216-296-11	SHORT CHIP	0
		< CONNECTOR >						2 COII 5	
CN601	1-774-701-21	PIN, CONNECTOR	R 16P					< COIL >	
CN701	1-819-773-13	SOCKET, CONNEC	TOR 15P			L1	1-469-844-11	INDUCTOR	2.2uH
CNP301	1-820-611-11	CONNECTOR, BO	ARD TO BO	ARD 28P		L151	1-216-295-11		0
		< DIODE >				L601	1-456-617-11	COIL, CHOKE	
								< TRANSISTOR	>
D1		DIODE MAZROS					0 554 404 01	TDANOIOTOD	20000077402 00
D153 D479		DIODE MAZ8068 DIODE 1SS355T				Q1 Q22		TRANSISTOR 2	2SC6027T100-QR RT1N441C-TP-1
U413	0-113-300-01	חוטחב ויססיסטן	L-11			ı UZZ	U-1 28-U30-20	TIMINOIOTUM 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

MAIN

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
Q51	6-551-696-01	TRANSISTOR I	SA1235AC17	TP-1FF		R472	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q431	8-729-027-44	TRANSISTOR [R479	1-216-805-11	METAL CHIP	47	5%	1/10W
Q441	8-729-027-44	TRANSISTOR I				R481	1-216-813-11	METAL CHIP	220	5%	1/10W
Q451	8-729-027-44	TRANSISTOR I				R482	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q461	8-729-027-44	TRANSISTOR I				R502	1-216-821-11	METAL CHIP	1K	5%	1/10W
α.σ.	0.20 02						. 2.0 02			0,0	.,
Q471	6-551-856-01	TRANSISTOR L	TC614TKFP8	3T146		R503	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q478	8-729-027-43	TRANSISTOR [OTC114EKA-	T146		R504	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
Q479	8-729-027-23	TRANSISTOR [TA114EKA-	Γ146		R505	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
Q481	6-551-856-01	TRANSISTOR L	TC614TKFP8	3T146		R506	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q580	8-729-027-43	TRANSISTOR [OTC114EKA-	T146		R509	1-216-813-11	METAL CHIP	220	5%	1/10W
Q581	8-729-038-28	TRANSISTOR F				R510	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q582	8-729-620-07	TRANSISTOR 2				R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q631	8-729-620-07	TRANSISTOR 2				R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q651	8-729-620-07	TRANSISTOR 2				R513	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q664	8-729-027-23	TRANSISTOR [JIATT4EKA-	1146		R514	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< RESISTOR >				R517	1-216-841-11	METAL CHIP	47K	5%	1/10W
		***************************************				R519	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1	1-216-821-11	METAL CHIP	1K	5%	1/10W	R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2	1-414-595-11	INDUCTOR, FER		• / -	.,	R522	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3	1-414-595-11	INDUCTOR, FER				R524	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4	1-216-839-11	METAL CHIP	33K	5%	1/10W		. 2.0 0.0			0,0	.,
R5	1-216-843-11	METAL CHIP	68K	5%	1/10W	R526	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R527	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6	1-216-839-11	METAL CHIP	33K	5%	1/10W	R528	1-216-845-11	METAL CHIP	100K	5%	1/10W
R7	1-216-843-11	METAL CHIP	68K	5%	1/10W	R529	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8	1-216-839-11	METAL CHIP	33K	5%	1/10W	R531	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9	1-216-843-11	METAL CHIP	68K	5%	1/10W						
R12	1-414-595-11	INDUCTOR, FER	RITE BEAD			R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R533	1-216-845-11	METAL CHIP	100K	5%	1/10W
R13	1-414-595-11	INDUCTOR, FER	RITE BEAD			R534	1-216-833-11	METAL CHIP	10K	5%	1/10W
R29	1-216-809-11	METAL CHIP	100	5%	1/10W	R535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R51	1-216-797-11	METAL CHIP	10	5%	1/10W	R536	1-216-833-11	METAL CHIP	10K	5%	1/10W
R52	1-216-803-11	METAL CHIP	33	5%	1/10W						
R53	1-414-595-11	INDUCTOR, FER	RITE BEAD			R537	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R539	1-216-845-11	METAL CHIP	100K	5%	1/10W
R54	1-216-845-11	METAL CHIP	100K	5%	1/10W	R540	1-216-845-11	METAL CHIP	100K	5%	1/10W
R56	1-414-595-11	INDUCTOR, FER				R541	1-216-845-11	METAL CHIP	100K	5%	1/10W
R57	1-414-595-11	INDUCTOR, FER				R542	1-216-821-11	METAL CHIP	1K	5%	1/10W
R59	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R60	1-216-833-11	METAL CHIP	10K	5%	1/10W	R543	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R544	1-216-821-11	METAL CHIP	1K	5%	1/10W
R61	1-216-821-11	METAL CHIP	1K	5%	1/10W	R547	1-216-821-11	METAL CHIP	1K	5%	1/10W
R151	1-216-817-11	METAL CHIP	470	5%	1/10W	R550	1-216-845-11	METAL CHIP	100K	5%	1/10W
R152	1-216-817-11	METAL CHIP	470	5%	1/10W	R551	1-216-845-11	METAL CHIP	100K	5%	1/10W
R153	1-216-834-11	METAL CHIP	12K	5%	1/10W	DEEZ	1 010 005 11	METAL CLUD	0.01/	E0/	1 /1 OM/
R154	1-216-834-11	METAL CHIP	12K	5%	1/10W	R557	1-216-825-11	METAL CHIP	2.2K 100K	5% 5%	1/10W 1/10W
D1EE	1 016 005 11	METAL CHID	0.01/	E0/	1/10///	R559	1-216-845-11	METAL CHIP			1/10W
R155 R301	1-216-825-11 1-216-821-11	METAL CHIP METAL CHIP	2.2K 1K	5% 5%	1/10W 1/10W	R561 R563	1-216-845-11 1-216-845-11	METAL CHIP METAL CHIP	100K 100K	5% 5%	1/10W
R302	1-216-821-11	METAL CHIP	1K	5%	1/10W	R564	1-216-845-11	METAL CHIP	100K	5% 5%	1/10W
R401	1-216-797-11	METAL CHIP	10	5%	1/10W	N304	1-210-045-11	WE TAL UTIF	TOOK	J /0	1/1000
R412	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	R565	1-216-845-11	METAL CHIP	100K	5%	1/10W
11412	1-210-003-11	WILTAL OTTE	JUK	0.5 /6	1/1000	R566	1-216-845-11	METAL CHIP	100K	5%	1/10W
R413	1-216-864-11	SHORT CHIP	0			R567	1-216-845-11	METAL CHIP	100K	5%	1/10W
R413	1-216-864-11	SHORT CHIP	0			R570	1-216-645-11	METAL CHIP	470	5% 5%	1/10W
R431	1-216-821-11	METAL CHIP	1K	5%	1/10W	R572	1-216-845-11	METAL CHIP	100K	5%	1/10W
R432	1-216-833-11	METAL CHIP	10K	5%	1/10W	11012	7 210 0 1 0-11	WEIAL OIII	1001	J /0	1/1000
R441	1-216-821-11	METAL CHIP	1K	5%	1/10W	R573	1-216-845-11	METAL CHIP	100K	5%	1/10W
11771	7 210 021 11	WEINE OITH	111	U / U	1, 10 00	R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R442	1-216-833-11	METAL CHIP	10K	5%	1/10W	R578	1-216-821-11	METAL CHIP	166K	5%	1/10W
R451	1-216-821-11	METAL CHIP	1K	5%	1/10W	R582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R452	1-216-833-11	METAL CHIP	10K	5%	1/10W	R583	1-216-821-11	METAL CHIP	1K	5%	1/10W
R461	1-216-821-11	METAL CHIP	1K	5%	1/10W					- / -	., . • • •
R462	1-216-833-11	METAL CHIP	10K	5%	1/10W	R584	1-216-849-11	METAL CHIP	220K	5%	1/10W
-		-				R585	1-216-849-11	METAL CHIP	220K	5%	1/10W
R471	1-216-813-11	METAL CHIP	220	5%	1/10W	R601	1-216-845-11	METAL CHIP	100K	5%	1/10W

MAIN SERVO

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	
R609	1-249-425-11	CARBON	4.7K	5%	1/4W (GT121)	
R631	1-249-425-11	CARBON	4.7K	5%	1/4W	
R632	1-216-841-11	METAL CHIP	4.7K 47K	5%	1/4VV 1/10W	
R633	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R634	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R636	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R653	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R654	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R661	1-216-821-11	METAL CUID	1K	5%	1/10///	
R662	1-216-833-11	METAL CHIP METAL CHIP	1K 10K	5% 5%	1/10W 1/10W	
					I	
R663	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R664	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R671	1-216-809-11	METAL CHIP	100	5%	1/10W	
R672	1-216-809-11	METAL CHIP	100	5%	1/10W	
R673	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R674	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R675	1-216-821-11	METAL CHIP	166K	5%	1/10W	
		•				
R676	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R677	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R679	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R690	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R692	1-216-845-11	METAL CHIP	100K	5%	1/10W	
					20/GT222)	
R693	1-216-845-11	METAL CHIP	100K	5%	1/10W	
				• 70	(GT121)	
					, ,	
R694	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R752	1-216-811-11	METAL CHIP	150	5%	1/10W	
R756	1-216-841-11	METAL CHIP	47K	5%	1/10W	
		TUNED UNIT				
		< TUNER UNIT >				
TU1	A-3220-961-B	TUNER UNIT (TUX-032)				
		. VIDDATOD				
		< VIBRATOR >				
X51	1-813-532-11	VIBRATOR, CRYS	TAL (8.664	MHz)		
X501			`	,		
X502	1-767-317-11	VIBRATOR, CERAMIC (18.432MHz) VIBRATOR, CRYSTAL (32.768kHz)				
		******	\ -	- /	******	
	A-1177-201-A	SERVO BOARD, O				
******	*********	*****************		******	******	
		MISCELLANEOUS				
		********	*			
7	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER)				
<u>^</u> 103	X-2149-672-1	, , , , , ,				
FU601	1-532-877-11		PE) (AUTO I	FÚSE) 10.	a l	

Ref. No.	Part No.	Description ACCESSORIES ************************************	<u>Remark</u>		
	3-218-435-11	MANUAL, INSTRUCTION	•		
	3-218-436-11	MANUAL, INSTRUCTION	RENCH,ITALIAN,DUTCH) I, INSTALL (ENGLISH, RENCH,ITALIAN,DUTCH)		
	X-2149-228-2	CASE ASSY (for FRONT	,		
******	*******	******	******		
	PARTS FOR INSTALLATION AND CONNECTIONS ************************************				
151	X-2187-305-1	FRAME ASSY, FITTING			
152	2-686-803-11	COLLAR			
153	3-246-471-01				
154		SCREW ASSY (BS), FITTING			
155	3-349-410-11	BUSHING			
156	1-465-459-31	ADAPTOR, ANTENNA			
157	1-831-838-11	CORD (WITH CONNECTO	OR) (ISO) (POWER)		
			, , , , , , , , , , , , , , , , , , , ,		
4=4					
151		152	153		
151		152	153		
151		152			
151		152	153 × 2		
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154			× 2		
154			×2		
154			×2		
154			×2		
154			×2		

<u>MEMO</u>

REVISION HISTORY

Clicking the version allows you to jump to the revised page. Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2007. 08	New