Clarion

Clarion (Malaysia) Sdn. Bhd.

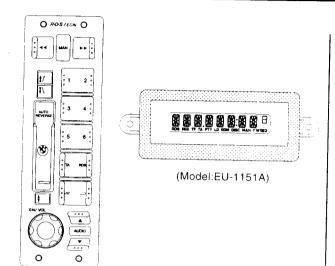
Phase 3. Free Trade Zone One, 11900 Bayan Lepas, Penang, Malaysia Tel: (60) 4-6439-106, Fax. (60) 4-6439-108

Clarion Co. Ltd.

export Division: 22-3, Shibuya 2 - chome, Shibuyaku, Tokyo, 150-8335 Japan - Tel: 03-3400-1121

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Service Manual



LW/MW/FM Cassette

PU-1680A Model

PU-1681A

Model

EU-1151A

(Model:PU-1680A/PU1681A)

SPECIFICATIONS

Radio section

Model: PU-1680A

Tuning system: Receiving range:

PLL frequency synthesizer system FM 87.7 to 107.9MHz (0.2 MHz steps)

AM 530 to 1710kHz (10 kHz steps)

Model: PU-1681A

Tuning system:

PLL synthesizer tuner

Receiving range:

FM 87.5 to 108MHz (0.1 MHz steps for seek)

(0.05 MHz steps for manual tuning) LW 153 to 279 kHz (3 kHz steps) MW 531 to 1,602 kHz (9kHz steps)

Tape section

Reproducting system:

4 track, 2 channel stereo cassette

Wow and flutter: Separation:

Less than 0.25% (W.R.M.S)

Crosstalk:

More than 35dB More than 40dB

S/N ratio:

More than 45dB

FF/REW time:

Less than 120sec. (c-60)

General

Power supply voltage:

DC 13.5V (10.8 to 15.6V allowable)

Negative ground

Current consumption:

Less than 10A

Speaker impedance:

 4Ω

Dimensions (mm):

178 (W) x 100 (H) x 152 (M)mm

Weight:

NOTE

1. We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

COMPONENTS

PU1680A/PU1681A/EU1181A

Main unit Mounting bracket	300-7742-20	1
Part's bag		
Removal key	331-2479-20	2
Poly Bag	253-0380-50	1

^{*} Specification and design are subject to change without notice for further improvement.

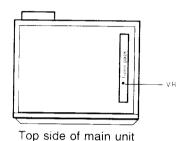
■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

- 1. Use specified parts.
 - The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
 - The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
- 2. Place the parts and wiring back in their original positions after replacement or re-wiring.
 - For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
 - If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
- 3. Check for safety after repair.
 - Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.
 - If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
- 4. Caution in removal and making wiring connection to the parts for the automobile.
 - Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
- 5. Cautions regarding chips.
 - Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
- 6. Cautions in handling flexible PWB.
 - Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.
- Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

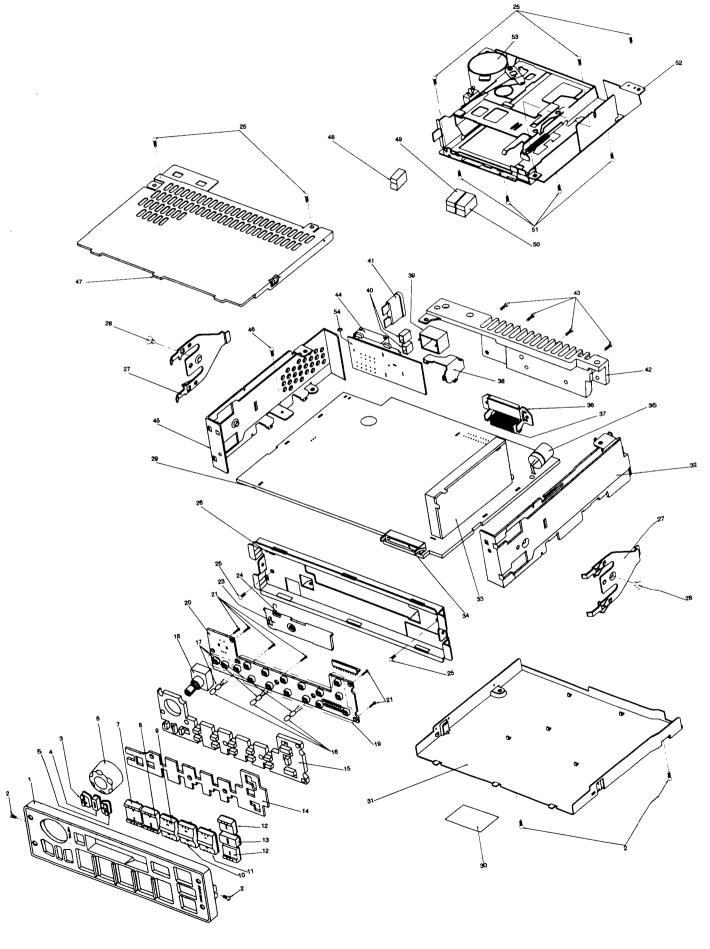
ADJUSTMENT

Item	Procedure	Instrument
FM-S-meter	1. Press the RDS button and	SSG
	M6 button to RDS test mode.	Millivoltmeter
	2. Input at 98.1MHz/30dBµ	!
	(1KHz,30% Mod.) signal.	
	3. Adjust VR on top of tuner	
	pack so that an output level	
	at the TP (S-Meter) on main	
	PWB is 3.0±0.1V.	



■ EXPLODED VIEW • PART LIST

Main Section

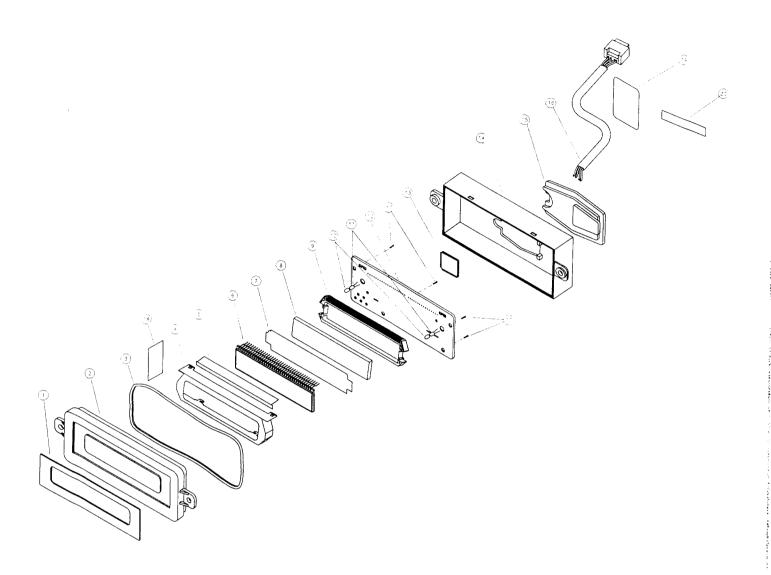


NO.	PART NO.	DESCRIPTION	Q'TY
1	370-5863-00	ESCUTCHEON	1
2	716-1494-00	MACHINE SCREW	4
3	382-5696-00	BUTTON (AUDIO DOWN)	1
4	382-5692-00	BUTTON (AUDIO)	1
5	382-5695-00	BUTTON (AUDIO UP)	1
6	380-5469-00	KNOB	1
7	382-5694-00	BUTTON (RADIO/TAPE)	1
8	382-5693-00	BUTTON (TA/RDS)	1
9	382-5689-00	BUTTON (5/6)	1
10	382-5688-00	BUTTON (3/4)	1
11	382-5687-00	BUTTON (1/2)	1
12	382-5690-00	BUTTON (MAN-SEEK)	2
13	382-5691-00	BUTTON (MAN)	1
14	345-8397-00	SPONGE	1
15	335-6235-00	ILLUMI PLATE	1
16	345-3814-85	LAMP CAP	3
17	017-0410-00	PILOT LAMP	3
18	016-0010-12	VARIABLE-R	1
19	013-6002-50	SWITCH	16
20	039-1629-00	SW PWB	1
21	716-0778-00	WAVE SCREW	6
22	074-1151-18	OUTLET SOCKET (PWB)	1
23	320-0526-73	DUSTPROOF COVER	1
24	750-2626-01	SPRING	1
25	731-3006-80	TAP TIGHT	7
26	309-0744-00	FRONT PLATE	1
27	750-2512-01	SPRING	2
28	714-3006-41	MACHINE SCREW	2

NO.	PART NO.	DESCRIPTION	Q'TY
29	039-1628-00	MAIN PWB	1
30	286-9477-01	SETPLATE	1
30A	286-9478-00	SETPLATE	1
31	305-0289-00	LOWER CASE	1
32	305-0291-00	SIDE PLATE (RIGHT)	1
33	80-2080-C1	TUNER	1
34	076-0540-18	PLUG	1
35	092-0612-11	ANTENNA	1
36	331-2574-00	IC HOLDER	1
37	051-2014-00	POWERIC	1
38	331-2577-00	ISO HOLDER	1
39	331-2009-00	SHIELD CASE	1
40	074-1265-00	OUTLET SOCKET	2
41	060-0057-56	AUTO FUSE	1
42	313-1791-00	HEAT SINK	1
43	714-2610-81	MACHINE SCREW	4
44	074-1264-00	OUTLET SOCKET	1
45	305-0290-00	SIDE PLATE (LEFT)	1
46	714-2606-81	MACHINE SCREW	1
47	304-0464-00	UPPER CASE	1
48	382-1082-02	BUTTON (PRO)	1
49	382-1292-00	BUTTON (REW)	1
50	382-1291-00	BUTTON (FF)	1
51	714-3004-81	MACHINE SCREW	4
52	331-2813-00	MECHHOLDER	1
53	930-0650-81	TAPE MECH.	1
54	039-1630-00	ISO PWB	1

■ EXPLODED VIEW • PARTS LIST

Display Box EU-1151A



NO.	PART NO.	DESCRIPTION	Q'TY
11	353-0518-00	SHADE	1
2	335-6232-00	UPPER COVER	1
3	345-8396-00	RUBBER PART	1
4	331-2593-00	LCD HOLDER	1
5	335-5994-00	SHEILD SHEET	1
6	379-1155-40	LCD	1
7	335-5912-01	FILTER	1
8	335-5910-00	ILLUMI PLATE	1
9	335-5909-01	LCDHOLDER	1
10	345-3814-85	LAMP CAP	2

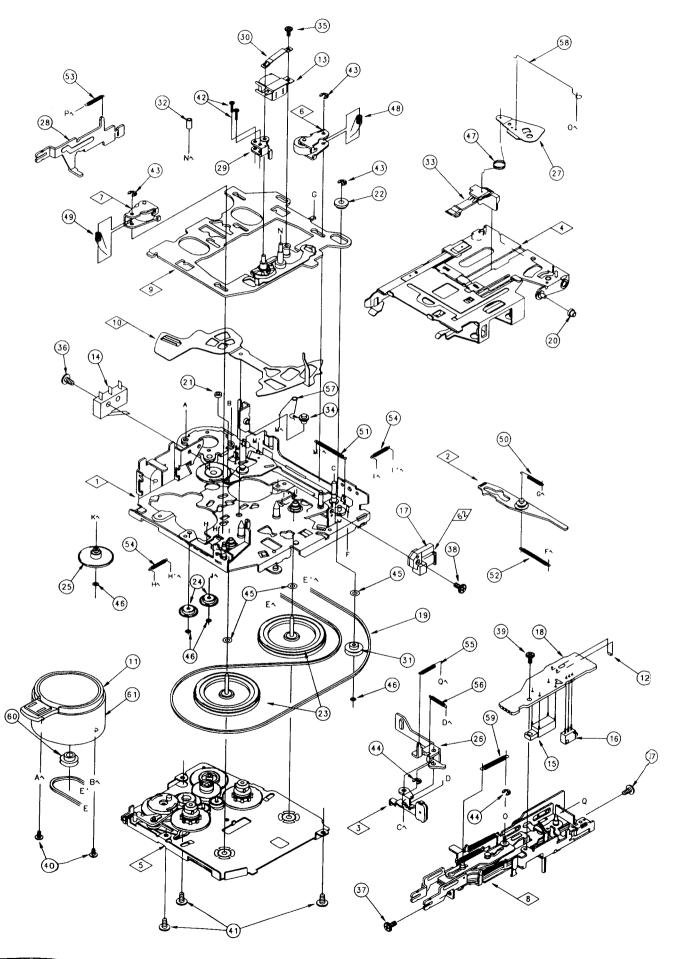
NO.	PART NO.	DESCRIPTION	Q'TY
11	017-0410-00	PILOT LAMP	2
12	039-1631-00	PWB	1
13	051-6022-00	LCD DRIVER	1
14	335-6233-00	REAR CASE	1
15	335-6234-00	LEAD CLAMP	1
16	854-8616-60	EXT. LEAD	1
17	716-0778-00	SPECIAL SCREW	4
18	346-0131-00	LEATHER SHEET	1
19	286-9479-00	SETPLATE	1
20	291-0091-00	STICKER	1

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■ EXPLODED VIEW • PARTS LIST

Tape mechanism section 930-0650-81

Drive unit section



1 110			
NO.	PART NO.	DESCRIPTION	Q'TY
1	960-3834-04	DECK-P-ASSY R	1
2	960-3837-04	SHIFT-P-ASSY	1
3	960-3839-03	PLUNGER-L-ASSY	1
4	960-3950-02	PACK GUIDE-ASSY	1
5	960-4205-04	BOTTOM SUB-A-C	1
6	960-4230-00	ROLLER-ASSY-F	1
7	960-4231-00	ROLLER-ASSY-R	1
8	960-3924-13	FRAME SUB-A-RS	1
9	960-4222-00	HEAD-P-ASSY R	1
10	960-3881-05	CH PLATE-ASSY	1
11	020-0383-00	DC-MOTOR	1
12	001-0330-00	DIODE	1
13	011-0307-50	HEAD	1
14	013-2690-02	SWITCH	1
15	013-3807-00	SWITCH	1
16	013-3808-00	SWITCH	1
17	630-1479-02	CORE	1
18	099-8019-01	PWB	1
19	602-0103-10	BELT	1
20	610-0226-01	ROLLER	1
21	610-0293-01	POWER ROLLER	1
22	610-0294-01	HEAD-P-G-ROLLER	1
23	611-0077-01	FLYWHEEL	2
24	613-0095-01	FF IDLER GEAR	2
25	613-0314-00	GEAR A	1
26	630-1930-02	OFF ARM	1
27	630-1932-02	SWING ARM	1
28	630-1934-02	PROGRAM LEVER	1
29	630-1956-02	ADJUST LINK	1
30	630-1962-02	HEAD SPRING	1
31	604-0035-01	TENTION PULLEY	1
32	631-0545-01	EJECT ROLLER	1
	12.00.001	LOCOT HOLLEN	

	NO.	PART NO.	DESCRIPTION	Q'TY
	33	631-0552-03	PACK STOPPER	1
	34	632-1886-02	LOCK PIN	1
	35	716-0816-00	STEEL SCREW	1
	36	714-2308-81	MACHINE SCREW	1
	37	714-2604-81	MACHINE SCREW	2
	38	714-2606-11	MACHINE SCREW	1
П	39	716-0790-02	PWB SCREW	1
	40	716-0715-15	STEEL SCREW	2
	41	716-0717-10	SPECIAL SCREW	3
П	42	716-0718-21	SPECIAL SCREW	2
	43	743-1500-10	E-LING	3
	44	743-2000-10	E-LING	2
	45	746-0624-00	SPECIAL WASHER	3
	46	746-0761-00	SPECIAL WASHER	4
	47	750-2361-01	SPRING	1
	48	750-2929-00	ROLLER SPEING F	1
	49	750-2928-00	ROLLER SPEING R	1
	50	750-2537-02	OVER-P-SPRING	1
L	51	750-2538-01	POWER-P-SPRING	1
	52	750-2539-01	SHIFT-P-SPRING	1
	53	750-2541-02	PROGRAM SPRING	1
L	54	750-2545-00	FF GEAR SPRING	2
L	55	750-2650-00	OFF ARM SP B	1
	56	750-2555-02	OFF ARM SPRING	1
L	57	750-2568-00	LOCK SPRING	1
L	58	750-2569-03	EJECT ROD RS	1
L	59	750-2554-03	CLICK-P-SPRING	1
L	60	603-0114-00	MOTOR PULLEY	1
L	61	630-2028-00	SHIELD CASE	1
L	62	960-3392-02	COIL-ASSY	1
L				
L				

■ EXPLANATION OF IC

■ μPD784215

052-3917-00

Radio, Tape Controller

Outward Form

100 pins, plastic QFP

Terminal Description

	al Description		,
Pin No	o Symbol	1/0	Function
1	LCD-DO	0	Serial data output Display IC
2	LCD-CLK	0	Clock pulse output to Display IC
3	LCD-CE	0	Chip enable signal output to
			Display IC
4	RDS DATA		RDS serial data input
5	NOISE CLEAR	0	Noise clear signal output
6	RDSMUTE	0	"H" RDS mute ON
7	FM-SD	1	"H"=FM station detected
8	AM-SD	1	"H"=AM staion detected
9	VDD	-	Positive supply voltage
10	X2		Crystal connection (12MHz)
11	X1	1	Crystal connection (12MHz)
12	VSS	_	Ground
13	XT 2	1-	Not in use
14	XT 1	1	Not in use
15	RESET	ı	Reset signal input. "L"=Reset
16	N.C	ı	Not in use
17	N.C	1	Not in use
18	RDS-CLK	ı	RDS clock pulse input
19	KI-0	T	Key scan signal input. Ref. Table 1
20	B/U-DET	1	Backup intterrupt signal input.
			"H"=Backup ON
21	ACC-DET	1	ACC power supply ON signal
			input. "L"=ACC ON
22	PACK-IN		Cassette pack insertion detection
			terminal. "L"=Tape in
23	AVDD		Positive supply voltage
24	AVREF0		Reference voltage input for A/D converte
25	NOISE-IN1	1	Input terminal of A/D converter to
		'	detect the noise of FM
26	NOISE-IN2		Not in use
27	S-M		Input terminal of internal A/D
			converter to detect the voltage of
			FM S meter
28	N.C		Not in use
29	PLL-DI		
30	REMCON-1		PLL serial data input
	· SEIVIOON*I		Input terminal of internal A/D
			converter to detect the remote
31	REMCON-2	\vdash	control switch
٠.	· ICIVIOUN-2	1	Input terminal of internal A/D
			converter to detect the remote
32	MUTE-DET	\vdash \vdash \vdash	control switch
ا	WOIE-DEI		Input terminal of A/D converter to
22	A1400		detect the voltage of Backup line
33	AVSS		Ground
34	INTERCOMINT		Input terminal for Intercom
25	N. e		interruption. "H"=Interrupt ON
35	N.C		Not in use

41 SOFT-MUTE O Output terminal for swithing FM SOFT MUTE constant 42 A-MUTE O Mute signal output to Audio power amplifier IC. "L"=Mute ON 43 L-MUTE O Mute signal output to line-out. "L"=mute ON 44 N.C I Not in use 45 V-CL O Clock pulse output to electrical volume IC 46 V-DO O Serial data output to electrical volume IC 47 V-CE O Chip enable output to electrical volume IC 48 VOL-MUTE O Mute signal output to electrical volume IC 49 5V-REM O 5V power supply circuit conrol signal output. "L"=ON 50 14V-REM O 14V power supply control signal output. "H"=ON 51 FWD/REV I "H"=Reverse. "L"=Forward 52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref. Table 2				
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43 L-MUTE O Mute signal output to line-out. "L"=mute ON 44 N.C I Not in use 45 V-CL O Clock pulse output to electrical volume IV 46 V-DO O Serial data output to electrical volume IV 47 V-CE O Chip enable output to electrical volumeIC 48 VOL-MUTE O Mute signal output to electrical volumeIC 49 5V-REM O 5V power supply circuit conrol signal output. "L"=ON 50 14V-REM O 14V power supply control signal output. "H"=ON 51 FWD/REV I "H"=Reverse. "L"=Forward 52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2	42	A-MUTE	0	Mute signal output to Audio
"L"=mute ON 44 N.C I Not in use 45 V-CL O Clock pulse output to electrical volume In 46 V-DO O Serial data output to electrical volume In 47 V-CE O Chip enable output to electrical volume In 48 VOL-MUTE O Mute signal output to electrical volumeIn 49 5V-REM O 5V power supply circuit conroll signal output. "L"=ON 50 14V-REM O 14V power supply control signal output. "H"=ON 51 FWD/REV I "H"=Reverse. "L"=Forward 52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref. Table 2				power amplifier IC. "L"=Mute ON
44 N.C I Not in use 45 V-CL O Clock pulse output to electrical volume II 46 V-DO O Serial data output to electrical volume II 47 V-CE O Chip enable output to electrical volume IC 48 VOL-MUTE O Mute signal output to electrical volume IC 49 5V-REM O 5V power supply circuit conrol signal output. "L"=ON 50 14V-REM O 14V power supply control signal output. "H"=ON 51 FWD/REV I "H"=Reverse. "L"=Forward 52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref. Table 2	43	L-MUTE	0	Mute signal output to line-out.
45 V-CL O Clock pulse output to electrical volume In 46 V-DO O Serial data output to electrical volume In 47 V-CE O Chip enable output to electrical volumeIO 48 VOL-MUTE O Mute signal output to electrical volumeIO 48 VOL-MUTE O Mute signal output to electrical volumeIO 50 SV-REM O 5V power supply circuit conrol signal output. "L"=ON 14V-REM O 14V power supply control signal output. "H"=ON 51 FWD/REV I "H"=Reverse. "L"=Forward 52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 50 N.C I Not in use 51 N.C I Not in use 52 N.C I Not in use 52 N.C I Not in use 53 N.C I Not in use 54 N.C I Not in use 55 N			-	
46			-	
47 V-CE O Chip enable output to electrical volume IC 48 VOL-MUTE O Mute signal output to electrical volume IC 49 5V-REM O 5V power supply circuit conrol signal output. "L"=ON 50 14V-REM O 14V power supply control signal output. "H"=ON 51 FWD/REV I "H"=Reverse. "L"=Forward 52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref. Table 2	_		 	Clock pulse output to electrical volume IC
48			-	Serial data output to electrical volume IC
49 5V-REM O 5V power supply circuit conrol signal output. "L"=ON 50				Chip enable output to electrical volume IC
signal output. "L"=ON			 	
50 14V-REM O 14V power supply control signal output. "H"=ON 51 FWD/REV I "H"=Reverse. "L"=Forward 52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2	49	5V-REM	0	
output. "H"=ON 51 FWD/REV I "H"=Reverse. "L"=Forward 52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2		444.0514	<u> </u>	
51 FWD/REV I "H"=Reverse. "L"=Forward 52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2	50	14V-REM	0	
52 N.C I Not in use 53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2		54555	<u> </u>	
53 N.C I Not in use 54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2			<u> </u>	
54 MOTOR-ON O "H"=Main motor ON 55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2				
55 N.C I Not in use 56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2			<u> </u>	
56 N.C I Not in use 57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2				
57 N.C I Not in use 58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2				
58 N.C I Not in use 59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2				
59 N.C I Not in use 60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2				
60 N.C I Not in use 61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2				
61 N.C I Not in use 62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2				
62 N.C I Not in use 63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2			- i	
63 N.C I Not in use 64 AREA-B I Area setting input. Ref . Table 2				
64 AREA-B I Area setting input. Ref . Table 2				
Thou dotting input. Her . Table (
		AREA-A		Area setting input. Ref . Table 2
66 N.C I Not in use				
67 N.C I Not in use				
68 N.C I Not in use				
69 N.C I Not in use				
70 N.C I Not in use	70 N	V.C		····
71 N.C I Not in use	71 N	V.C		
72 VSS — Ground	72 \	/SS		
73 N.C I Not in use	73 N	V.C		
74 N.C I Not in use	74 N	V.C	1	Not in use
75 ST I Not in use	75 S	ST	1	Not in use
76 N.C I Not in use	76 N	N.C		
77 N.C I Not in use	77 N	1.C	I	Not in use
78 N.C I Not in use	78 N	1.C	1	Not in use

Pin No	Symbol	1/0	Function
79	N.C		Not in use
80	N.C	ı	Not in use
81	VDD	_	Positive supply voltage
82	N.C	1	Not in use
83	N.C	ī	Not in use
84	N.C	1	Not in use
85	N.C		Not in use
86	N.C		Not in use
87	N.C	1	Not in use
88	KI-1	1	Key scan signal input. Ref. Table 1
89	KI-2	1	Key scan signal input. Ref. Table 1
90	KI-3	1	Key scan signal input. Ref. Table 1

Pin No	Symbol	1/0	Function
91	KI-4	1	Key scan signal input. Ref. Table 1
92	VOL-A	1	Volume control pulse input from
			Volume switch
93	VOL-B	1	Volume control pulse input from
			Volume switch
94	TEST/VPP	_	Connect to Ground
95	KO-1	0	Key scan signal output. Ref. Table 1
96	KO-2	0	Key scan signal output. Ref. Table 1
97	KO-3	0	Key scan signal output. Ref. Table 1
98	KO-4	0	Key scan signal output. Ref. Table 1
99	KO-5	0	Key scan signal output. Ref. Table 1
100	KO-6	0	Key scan signal output. Ref. Table 1

Table 1. Key Matrix Table

KO 1 (PIN95)	KO 2(PIN96)	KO 3 (PINI97)	KO 4 (DINOS)	LIO 5 (DINION)	T.,,
		10 0 (1 11497)	10 4 (P11198)	KO 5 (PIN99)	KO 6 (PIN100)
		-	-	-	Power
AUDIO	RADIO	M1	M2	MAN	
A-DOWN	CASSETE	M3	M4		
A-UP	RDS	M5			-
TA	-	<u> </u>	-	1-01	<u> </u>
	A-UP	AUDIO RADIO A-DOWN CASSETE A-UP RDS			AUDIO RADIO M1 M2 MAN A-DOWN CASSETE M3 M4 T-DOWN A-UP RDS M5 M6 T-UP

Table 2. Area setting Table

AREA	AREA A (PIN65)	AREA B (PIN64)
US	Н	L
BU	Н	Н

■ ELECTRICAL PARTS LIST

Main PWB Section (B1)

Note: Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

_				_			One of those parts is u	-SE	a in the s	set.			
- }-	REF N	lo. PART No.	DESCRIPTION	R	EF No	. PART No.	DESCRIPTION		REF	No	PART No.	DESCRIPTION	
19	0 1	166-1801-00	18pF	C	217	166-6811-00	680pF		C	705	183-1073-13		\exists
- (2	166-1011-00	100pF	С	218	183-1063-33	3 16V10μF	1	C 7	706	183-4743-63	3 50V0.47µF	1
	3	168-1032-05	0.011µF	С	219	183-1063-33	16V10µF		C 7	707	183-4743-63	50V0.47µF	
	3 4	168-4732-78	0.047µF	C	220	183-1063-33	16V10µF		C 7	'08	168-1022-05	1000pF	
	5	168-4732-78	0.047µF	С	221	183-1063-33	16V10µF	1	C 7	'09	ı		
	6	183-1053-63	50V1µF	C	222	183-1056-63	50V1µF	-	C 8	301	168-6832-78	0.068µF	
	7	168-1042-05	0.1µF	С	223	1		1	C 8	802	183-2263-13	1	
	8	168-1022-05	1000pF	С	224	168-3332-78	0.033µF		C 8	103	168-6832-78	,	
	9	168-6822-05	6800pF	C	225	168-3332-78			C 8	04	183-1073-13	,	ĺ
	10	168-1832-05	0.018µF	С	226	168-3312-05	330pF		C 8	05	166-1501-00	,	
	11	168-1832-05	0.018µF	С	227	168-1032-05	0.01µF		C 8	06	166-1501-00	1 '	
c	12	168-1522-05	1	С	228	168-1032-05	1		C 8	07	178-2242-78	! '	
	13	168-3332-78	0.033µF	С	229	168-3312-05	•		C 8	08	168-1032-05	1	ĺ
c	14	168-2232-05	' I	С	230	183-1063-33	1 '		1.	10	166-1011-00		
c	15	168-1032-05	! ' !	С	231	183-1063-33	1 '	l	1.	11	168-1532-05	i '	
c	80	168-1032-05	i ' I	С	232	168-1042-05	1	-	١.	12	168-1042-05	1 '	-
C	101	1	· '	c	233		1 '		1_	13	178-2242-78	1 '	
C	102	į	0.022µF	c	234	183-1043-63				20	168-1022-05		
c	103		3300pF	c	235	183-1043-63	1		l .	21	168-2212-05	'	
c	105		50V2.2µF	c	236	183-1043-63		l	i	22	168-1022-05	,	
c	106	1	330pF	С	237	183-1053-63	'	1	CCT 8		050-0140-54	1	
c	107	1	560pF	С	238	183-1053-63			CCT 8		050-0140-54		-
C	108		47pF	С	239	168-1032-05	'		CCT 8		050-0140-54	1ΚΩ×4	
c	109		82pF	c	250	183-2253-63		l	CCT 8		050-0140-54	1ΚΩ×4	
c	111		1	C	251	183-2253-63	50V2.2µF		CCT 8		050-0140-54	1ΚΩ×4	- [
c	113	1		С	302	183-4763-33	16V47µF	ĺ	CCT 8		050-0140-54	1ΚΩ×4	
С	116	1	0.01µF	С	303	168-1022-05	1000pF	l	CCT 80		050-0140-54	1ΚΩ×4	ł
С	123		8200pF	С	304	168-1022-05	1000pF		CCT 80		050-0140-54	1ΚΩ×4	
С	124		1200pF	С	305	168-1022-05	1000pF		CCT 80	[050-0140-54	1KΩ×4	
С	125		0.1µF	С	306	168-1022-05	1000pF	ĺ	CCT 8	- 1	050-0140-54	1ΚΩ×4	
С	129	1	50V1µF	С	307	178-4742-78	0.47µF	ı	CCT 81		050-0140-54	1KΩ×4	
С	131	166-1011-00	100pF	c		172-1041-11	· ·		i -		050-0140-54		
С	133	166-1011-00	1 '	С		184-3383-32	l '	۱	i .	- 1	050-0140-54		İ
С	134		100pF	С		183-2263-13				- 1	050-0140-54	1KΩ×4	
С	135	166-1011-00	100pF	С	501	168-1042-05		١	CCT 81		050-0140-54	1KΩ×4	
С	136	ł	6.3V47µF	С	502		[- · · • · · · · · · · · · · · · · · · ·		CCT 81	- 1	050-0140-54	1KΩ×4	
С	137	166-1501-00	15pF	С	505	168-1032-05	- F		CCT 81	- 1	050-0140-54	1KΩ×4	
С	140	166-1801-00	18pF	С	507	183-1073-13		П	CCT 81	- 1	050-0140-54	1KΩ×4	
С	141	168-5632-78	0.056µF	С	510	168-1032-05	0.01µF		CCT 81	- 1	050-0140-54	1KΩ×4	
С	142	1	0.082µF	С	511	168-3922-05	'	П	D 10	- 1	001-0330-00	1SS119	
С	143	1	0.056µF	С		183-1073-23	10V100µF	Н	D 10	- 1	1	1SS119	ı
С	144		0.047µF	С	- 1	183-2273-23	•	Н	D 30	- 1	001-0330-00	1SS119	1
С	145	1	0.01μF	С	517	168-1032-05		П	D 50	- 1	001-0330-00	1SS119	
С	146		0.01µF	c	1	042-0171-00			D 50	- 1	001-0330-00	188119	
С	180	166-1011-00	100pF	С	519		0.01μF		D 50			MTZJ9.1A	
С	181	168-1022-05	1000pF	c		183-4753-53		ł	D 50		ļ	MTZJ18	I
С	191	l	1000pF	С		184-4763-53	' '	H	D 50	- 1		1SS119	
С	192	168-1022-05	1000pF	С	í	168-1032-05	·		D 50	- 1		MTZJ9.1B	
С	211	40-	10V33µF	С	1	168-1042-05	· ·	1	D 51:			1SS119	ſ
0	212	40-	0.047µF	С	- 1		0.1μF	- [D 51:	- 1		S5688B	
С	213	40-	0.047μF	С		183-1073-13	' 1		D 51			S5688B	l
С	214	40-	680pF	С	- 1	168-2732-05	· ·	-1	D 55	- 1		MA111	l
2	215	400	50V1µF	С	- 1	ì	0.027μF	-	D 55			MA111	
2	216	183-1053-63		С	1		16V47μF	1	D 55	- 1		MA111	l
			··m'	_	'	0 00	10 4 77 MI	1	- 554	- 1 '	201-0010-00	INIC 1 1 1	i

RE	EF No.	PART No.	DESCRIPTION	ן רַ	REF N	o. PART No.	DESCRIPTION		7 [DEE :	I- D.S.	7
D	553			\dashv \vdash			DESCRIPTION	_	1 H	REF N		DESCRIPTION
D	801	001-0330-00		П	_				H	R 51		
D	901	001-0330-00		-11						R 51		
D	902	001-0330-00	1	Ш	_	_	1		11	R 52	1	
lc	101	051-0350-55		11	R 10		0 1/16W 12KΩ		[_		
lc	102	051-1819-00		Ш	10	. 1	0 1/16W 10KΩ			_	1	
C	103	1		11	3 10	_			f			
С	201	051-5012-00			_ :							
C	301	051-2014-00							F		8 119-1031-1	0 1/16W 10KΩ
ĸ	501	051-1556-08	1	F		1			F		0 119-2231-1	0 1/16W 22KΩ
C	701	051-0301-01	UPC1228HA	F		. [F		1 119-2231-1	0 1/16W 22KΩ
c	801	052-3917-00			_				F		1 111-1001-8	1 1/2WS 10Ω
,	001	032-3917-00	115-7EU			_			F		3 111-4701-9	1 1/4WS 47Ω
ĸ	802	051 5412 00		F		7 119-1031-10	1/16W 10KΩ	l	15	55	1 ,	
J	1	051-5413-08		Ш					F	552	2 119-1221-1	0 1/16W 1.2KΩ
L	1	076-0540-18	18P	F		1	1/16W 10KΩ		P	553	119-8211-1	0 1/16W 820Ω
L	İ	010-2330-67	5.6µH	F					R	554	119-3311-1	0 1/16W 330Ω
L	102	010-2046-44	1mH	F		119-1231-10	1/16W 12KΩ		R	556	119-3311-1	0 1/16W 330Ω
		010-2330-86	,	F	124	119-2221-10	1/16W 2.2KΩ		R	557	119-3321-10	0 1/16W 3.3KΩ
Q O	101	125-0003-02		ļΡ	125	119-2711-10	1/16W 270Ω		R	558	119-3321-10	1/16W 3.3KΩ
Q O	102	103-1504-00	2SD1504	R	126	119-1021-10	1/16W 1KΩ		IR	559	119-3311-10	D 1/16W 330Ω
Q O		125-2003-02	RN1202	R	129	119-1031-10	1/16W 10KΩ	ļ	R	560	119-3311-10	1/16W 330Ω
Q O	105	100-1150-00	2SA1150	R	130	119-2231-10	1/16W 22KΩ		R	701	119-6801-10	1/16W 68Ω
Q O		100-1048-00	2SA1048	R	131	119-2231-10	1/16W 22KΩ		R	702	119-4721-10) 1/16W 4.7KΩ
Q	107	108-0669-00	2SK669	R	132	119-4731-10	1/16W 47KΩ	ļ	R	703	119-1241-10	1/16W 120KΩ
Q		102-2712-00	2SC2712	R	133	119-4731-10	1/16W 47KΩ		R	704	119-4721-10	1/16W 4.7KΩ
Q]	125-2004-02	RN1402	R	207	119-4721-10	1/16W 4.7KΩ		R	705	119-1241-10	1/16W 120KΩ
	303	103-1306-00	2SD1306	R	208	119-3331-10	1/16W 33KΩ		R	706	119-6801-10	1/16W 68Ω
_		103-1306-00	2SD1306	R	209	119-3331-10	1/16W 33KΩ		R	707	119-2231-10	1/16W 22Ω
	501	102-2712-00	2SC2712	R	210	119-4721-10	1/16W 4.7KΩ		R	708	119-2231-10	1/16W 22KΩ
	507	100-1150-00	2SA1150	R	211	119-1541-10	1/16W 150KΩ		R	709	111-1031-91	1/4WS 10KΩ
Q	511	100-1297-00	2SA1297	R	212	119-1021-10	1/16W 1KΩ		R	710		1/2WS 820Ω
	1	i	2SD1858	R	213	119-1021-10	1/16W 1KΩ		R	711	119-2201-10	1
	514	103-1858-00	2SD1858	R	214	119-1021-10	1/16W 1KΩ		R	801		1/16W 10KΩ
)	515	103-1858-00	2SD1858	R	215	I i	1/16W 1KΩ		R	802		
) :	516	100-1297-00	2SA1297	R	216				R	803		1/16W 10KΩ
) ;	517	125-2003-02	RN1202	R	217	1			R	804		
) !	527	100-0885-00	2SA885	R	218				R	ĺ		1/16W 4.7KΩ
) !	530	102-2458-00	2SC2458	R		119-1031-10	1/16W 10KΩ		R	I	119-4721-10	
) :	590	051-1834-00	LM2936Z	R		119-4721-10	1/16W 4.7KΩ	1	R	1	119-1031-10	
ς ς	700	101-1240-00	2SB1240	R	221				R			1/16W 10KΩ
2 7	701	125-2003-03	RN1203	R		119-1031-10	1/16W 10KΩ		R	- 1	119-1031-10	
) (801	102-2712-00	2SC2712	R	302	119-1051-10	1/16W 1MΩ		R	f	119-0000-00	
) 9	901	125-2003-06	N1206	R		119-1031-10			R	1	119-0000-00	1/16W 0Ω
) 9	E09	100-1162-00	2SA1162	R	501		1/16W 16KΩ		l ' '	024	1.19-0000-00	
1	1 -	111-3311-91	1/4WS 330Ω	R	503			$\ \cdot\ $	R	825	119-0000 00	(PU-1680-Y-A ONL ❤)
2			1/16W 8.2KΩ	R	504	119-1831-10	1/16W 220KΩ±1%		1.1	025	119-0000-00	1/16W 0Ω
3	3 1		1/16W 12KΩ	R	505	119-2731-10	1/16W 18KΩ	$\ \cdot \ $	P	826	110-2244 40	(PU-1681Y-A ONLY)
4	. !	119-1021-10		R	506		1/16W 27KΩ	$\ \ $	R	- 1		1/16W 220KΩ
5	- !		1/16W 10KΩ	R	507	i	1/16W 470KΩ±1%	11	R	1	119-1031-10	1/16W 10KΩ
6	,	1	1/16W 220KΩ	R	!		1/4WS 1KΩ		R	- 1		1/16W 10KΩ
7	,		1/16W 10KΩ	R	510		1/16W 22KΩ	11	R	1		1/16W 4.7KΩ
8			1/16W 6.8KΩ	l			1/16W 470KΩ	11	R	1		1/16W 220KΩ
9	. 1	19-5631-10	1	R			1/16W 10KΩ	11	R	1	J	1/16W 22KΩ
			30.42	R	210	119-2741-10	1/16W 270KΩ	J L	R	851	119-2231-10	1/16W 22KΩ

	REF	No.	PART No.	DESCRIPTION
	R	860	119-1031-10	1/16W 10KΩ
ĺ	R	861	119-5631-10	1/16W 56KΩ
	R	881	119-0000-00	1/16W 0Ω
	R	882	119-0000-00	1/16W 0Ω
	R	883	119-0000-00	1/16W 0Ω

	REF	No.	PART No.	DESCRIPTION
	R	901	111-8211-91	1/4WS 820Ω
	R	902	119-3321-10	1/16W 3.3KΩ
i	R	903	119-1031-10	1/16W 10KΩ
	R	904	119-1031-10	1/16W 10KΩ
i	SUP		060-0122-10	DSP-201M

ON
:

Connector PWB Section (B2)

RE	F No.	PART No.	DESCRIPTION
С	2	183-1063-33	16V10µF
В	101	076-0324-10	10P
В	102	076-0324-04	4P

REF	· No.	PART No.	DESCRIPTION
В	103	076-0324-14	14P
D	1	001-0334-30	RL202
Т	1	009- 90 06-60	CHOKE

	REF No.	PART No.	DESCRIPTION
ı	J 101	074-1155-00	OUTLET SOCKET
1			
l			i

Switch PWB Section (B3)

RE	F No.	PART No.	DESCRIPTION
C	101	160-1012-05	100pF
С	102	160-1012-05	100pF
an	101	074-1151-18	18P
PL	101	017-0410-00	14V 40mA
PL	102	017-0410-00	14V 40mA
PL	103	017-0410-00	14V 40mA
s	101	013-6002-50	SKHVBC
s	102	013-6002-50	SKHVBC

RE	F No.	PART No.	DESCRIPTION
S	103	013-6002-50	SKHVBC
S	104	013-6002-50	SKHVBC
s	105	013-6002-50	SKHVBC
s	106	013-6002-50	SKHVBC
s	107	013-6002-50	SKHVBC
s	108	013-6002-50	SKHVBC
s	110	013-6 00 2-50	SKHVBC
s	111	013-6 00 2-50	SKHVBC

				
	RE	F No.	PART No.	DESCRIPTION
	S	112	013-6002-50	SKHVBC
	S	113	013-6002-50	SKHVBC
	S	114	013-6002-50	SKHVBC
	S	115	013-6002-50	SKHVBC
	S	116	013-6002-50	SKHVBC
	S	118	013-6002-50	SKHVBC
1	VR	101	016-0010-12	VR W/SHAFT

Display PWB Section (B4)

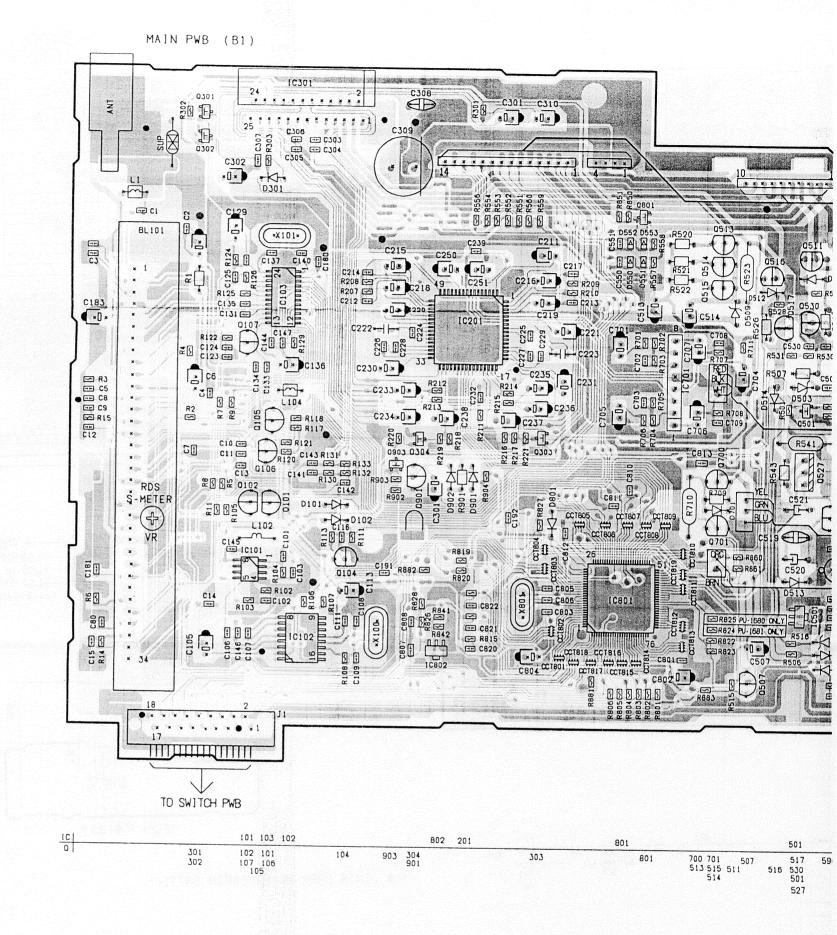
	REF No.		PART No.	DESCRIPTION
	С	2	183-1063-33	16V10µF
į	С	3	178-4732-05	0.047µF
	С	4	178-4732-05	0.047µF
	С	5	178-1022-05	1000pF
	С	6	183-1073-23	10V100µF
ĺ	D	1	001-0376-48	MTZJ9.1C
ĺ	D	4	001-0376-33	MTZJ5.6C
ı	D	5	001-0330-00	188119

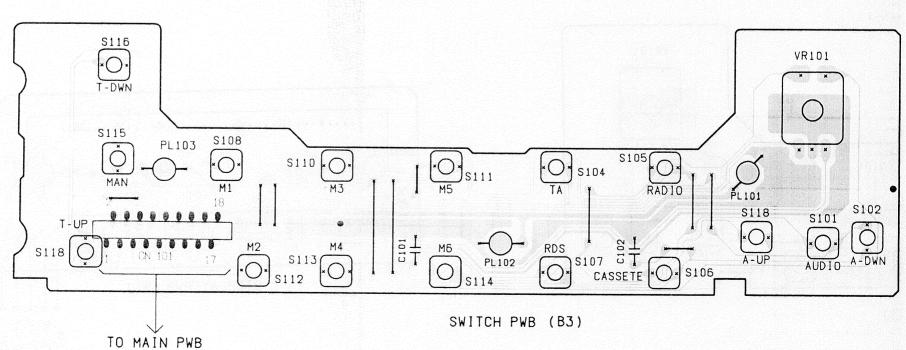
REF No.		PART No.	DESCRIPTION
Ю	1	051-6022-00	LC75824W
LCD	1	379-1155-40	
PL	1 .	017-0410-00	14V 40mA
PL.	2	017-0410-00	14V 40mA
Q	1	103-1 858-0 0	2SD1858
Q	2	103-1858-00	2SD1858
Q	3	103-1858-00	2SD1858
R	1	111-4711-91	1/4WS 470Ω

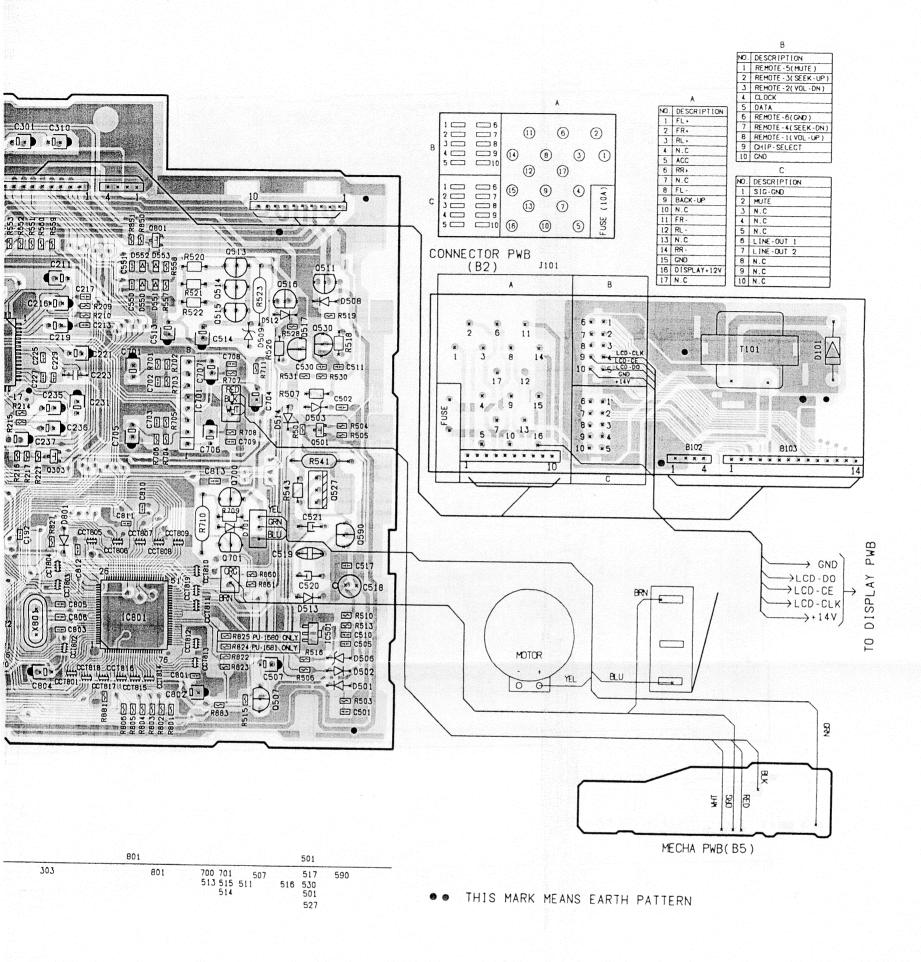
RE	F No.	PART No.	DESCRIPTION	
R	2	111-4711-91	1/4WS 2.2Ω	
R	3	111-4711-91	1/4WS 2.2Ω	
R	4	111-4711-91	1/4WS 220Ω	
R	6	119-1031-10	1/16W 10KΩ	
R	7	119-1031-10	1/16W 10KΩ	
R	8	119-1021-10	1/16W 1KΩ	
R	9	119-1021-10	1/16W 1KΩ	
R	10	119-1021-10	1/16W 1KΩ	

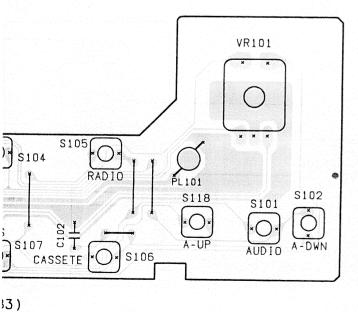
PRINTED WIRING BOARD

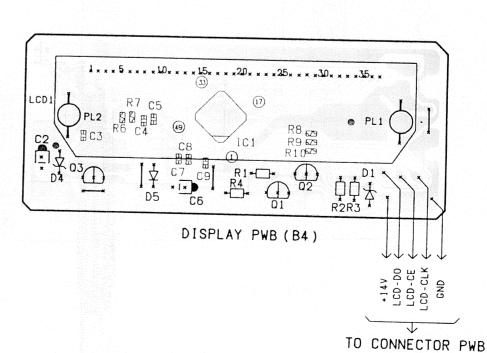
Main PWB (B1) / Connector PWB (B2) / Mecha PWB (B5) / Switch PWB (B3) / Display PWB (B4) Section





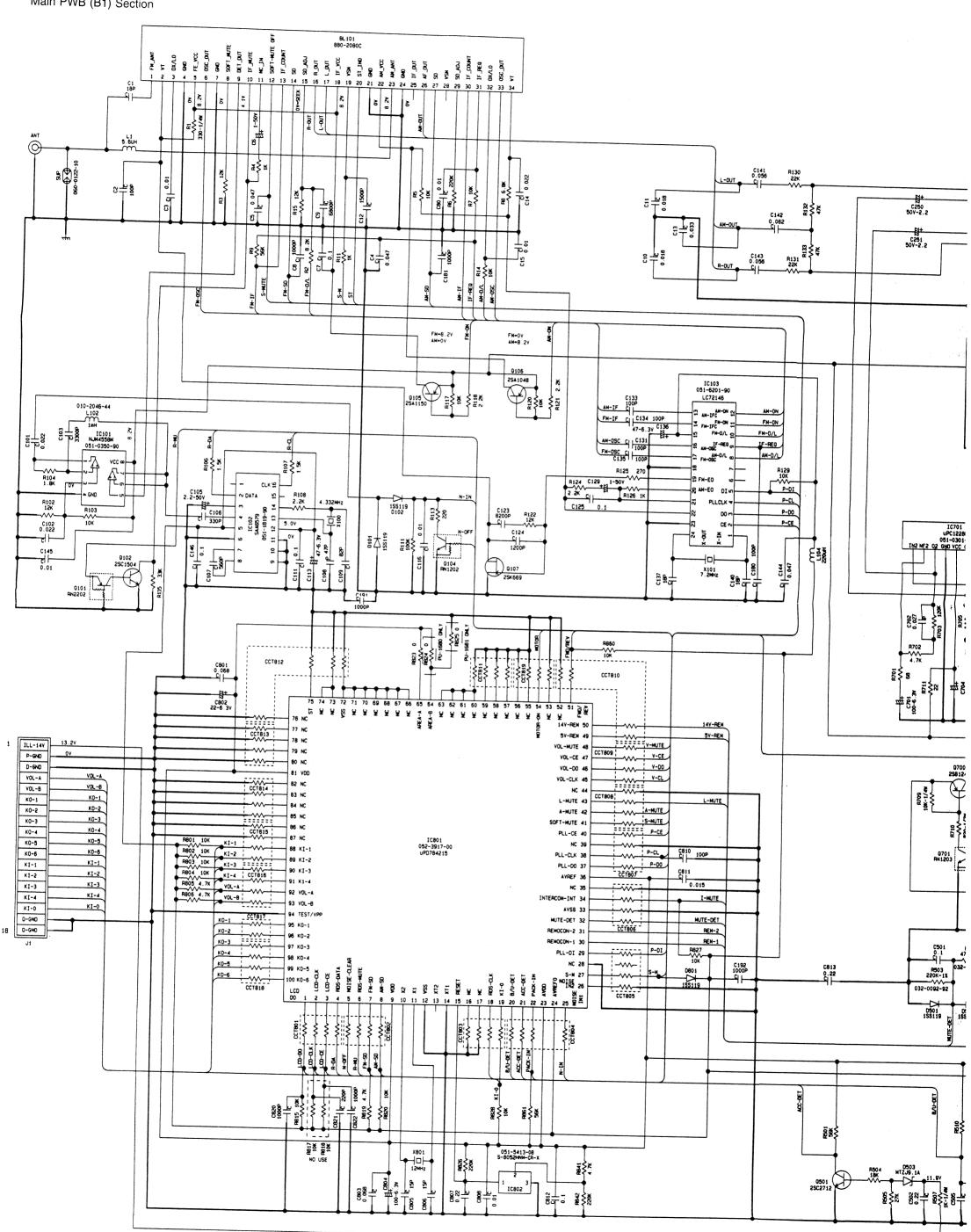


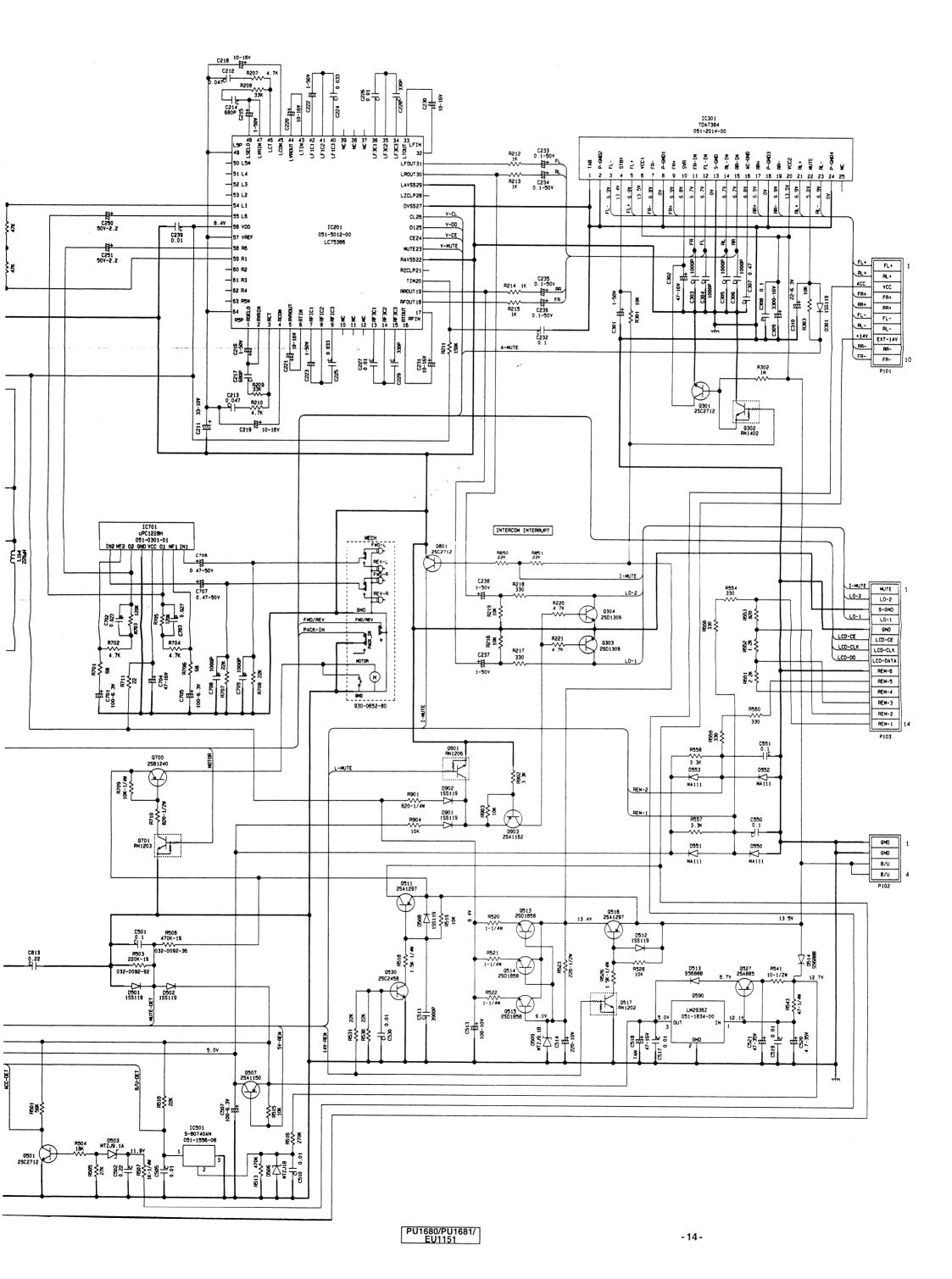




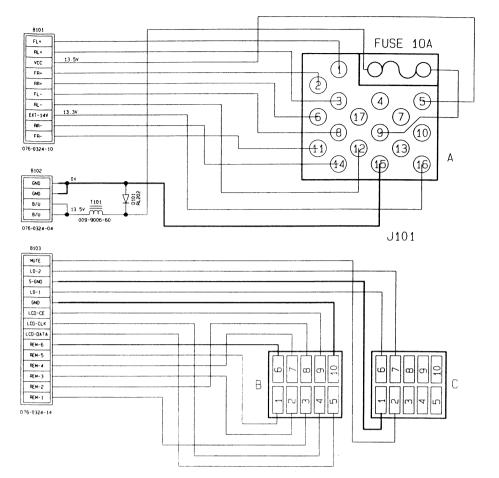
■ CIRCUIT DIAGRAM

Main PWB (B1) Section





Connector PWB (B2)Section



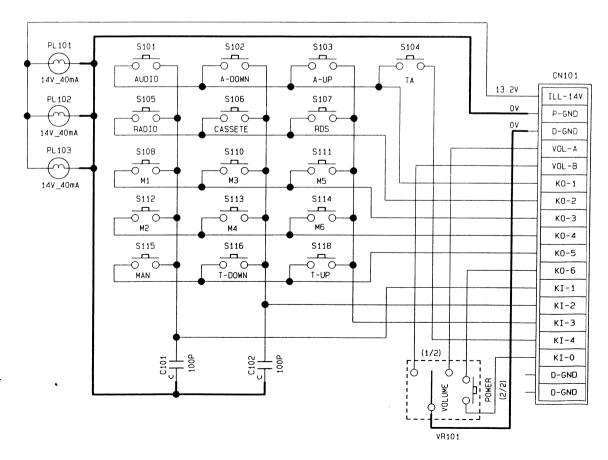
17 PIN C	ONFIGURATION (A)
PIN NO.	DESCRIPTION
1	FL +
2	FR +
3	AL +
4	N.C
5	POWER SWITCHED, ACC
6	RR +
7	N.C
8	FL -
9	POWER, B/U
10	N.C
11	FR -
12	RL -
13	N.C
14	RR ~
15	GND
16	EXTENAL DISPLAY POWER
17	N.C

PIN NO.	DESCRIPTION
1	REMOTE CONROL 5 (MUTE)
2	REMOTE CONTROL 3 (SEEK UP)
3	REMOTE CONTROL 2 (VOLUME DOWN)
4	EXTERNAL DISPLAY DATA-CLK
5	EXTERNAL DISPLAY DATA
6	REMOTE CONTROL 6 (GND)
7	REMOTE CONTROL 4 (SEEK DOWN)
8	REMOTE CONTROL 1 (VOLUME UP) EXTERNAL DISPLAY CHIP SELECT
9	EXTERNAL DISPLAY CHIP SELECT
10	GROUND

10 PIN CONFIGURATION (B)

10 PIN CONFIGURATION (C)		
DESCRIPTION		
SIGNAL GROUND		
MUTE (INTERCOM)		
N.C		
N.C		
N.C		
LINE OUT 1		
LINE OUT 2		
N.C		
N.C		
N.C		

Switch PWB (B3)Section



Display PWB (B4)Section

