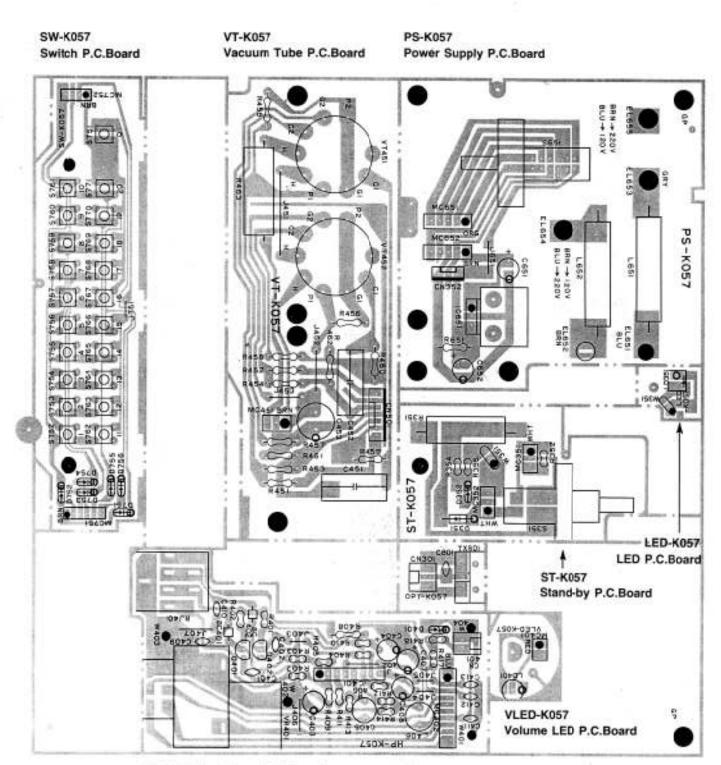
CARVERaudio.com

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PCB COTIFICINENTUSIDIE prewisded free, courtesy of CARVERaudio.com



HP-K057 Headphone P.C.Board

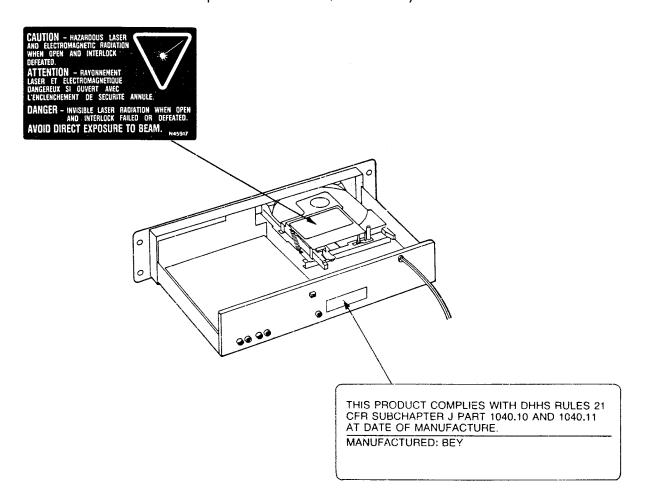
18

SD/A-490t Compact Disc Player SERVICE MANUAL

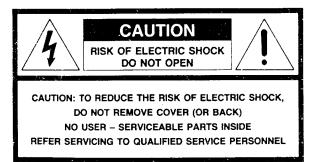
CONTENTS

CONTENTO	Page
SAFETY INFORMATION	
SPECIFICATIONS	3
ACTION FLOW CHART	4
ALIGNMENT METHOD	5
TRANSPORT CHECKING	8
BLOCK DIAGRAM	9
IC BLOCK DIAGRAMS	11
PCB COMPONENT SIDE VIEWS	
WIRING DIAGRAM	21
EXPLODED VIEWS	23
VOLTAGE CONVERSION	26
TROUBLESHOOTING GUIDE	
SCHEMATIC DIAGRAM	29
PARTS LIST	33

SAFETY INFORMATION Of is provided free, courtesy of CARVERaudio.com



CAUTION +





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

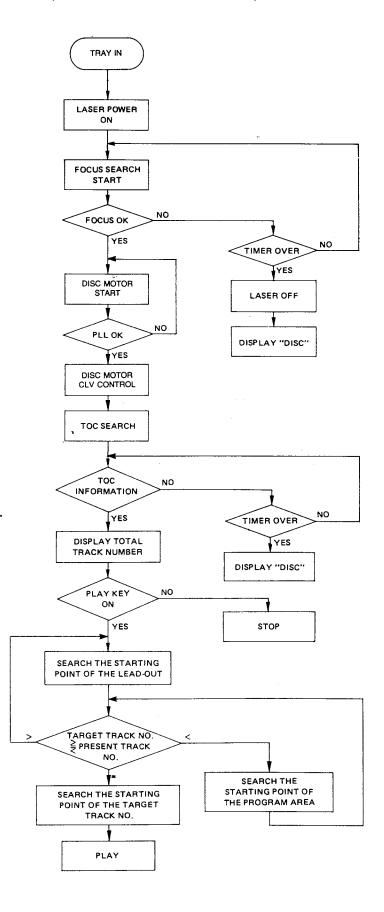
SPECIFICATIONS is provided free, courtesy of CARVERaudio.com

	Nominal	Limit	Unit
Decoding	: 1-bit linear,two channels		
Frequency response (8Hz-20kHz)	: +0.2	+1.0	dB
	-1.0	1.5	dB
De-emphasis error	: +0.5	+1.0	dB
	-1.0	-2.0	dB
Output Level at 0dB	: 2.5volts±0.5V	±1.5	dB
Harmonic Distortion	: 0.25	0.8	%
(W/20kHz L.P.F at 1kHz,0dB)			
Signal-to Noise Ratio (w/I.E.CAL.P.F.)	: 104	90	dB
Channel Separation (EQ:OFF)	: 88	82	dB
(W/20kHz L.P.F at 1kHz) (EQ:ON)	: 17±1.5	17±2	dB
Channel Balance at 1kHz, 0dB	: ±0.5	±1	dB
Wow and Flutter	: Unmeasurable		
	(quartz crystal accuracy)		
	: 120V AC(US),220V AC(EX)		
Power Consumption	: 30W		
Dimensions (W×H×D)	: 483×96×311		mm
	: (19×3.8×12.25)		(in)
Net weight	: 4.5Kg(9.941bs.)		

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

NOTE: If replacement of tubes should ever become necessary, please replace with Carver parts only in order to guarantee published specifications for Harmonic Distortion.

ACTION TRIOM CHARITIS provided free, courtesy of CARVERaudio.com

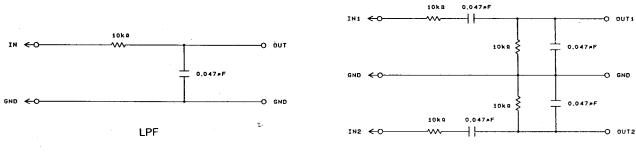


4

ALIGNMENTS METHOD is provided free, courtesy of CARVERaudio.com

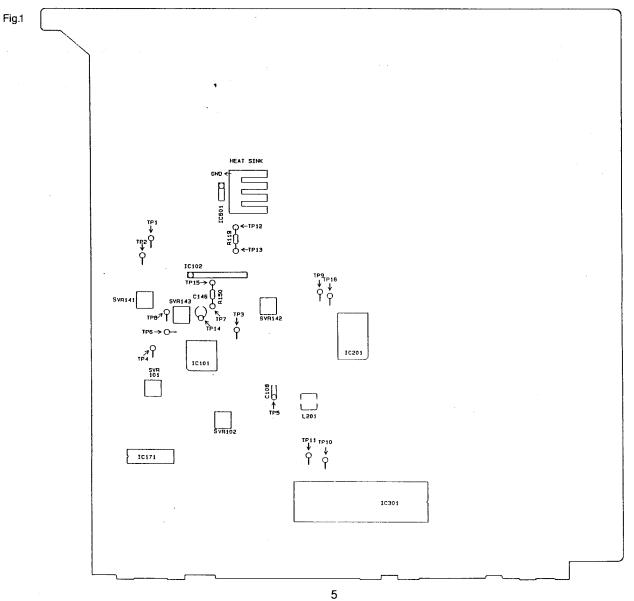
Equipment Needed:

Oscilloscope, 2 channel, 35 MHz minimum AF Oscillator Laser power meter (e.g. Leader LPM-8000) AC voltmeter, 2 channel Frequency counter Test disc, high quality (e.g. Sony YEDS-18, CBS CD-1, etc.) Jigs (as shown): Low-pass filter (LPF) Band-pass filter (BPF)





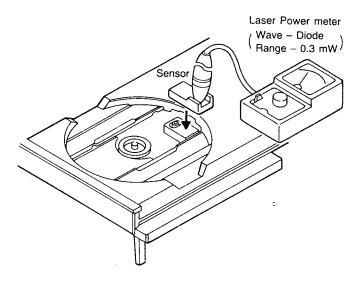
P.C.B Test Point



Alignment Method:

1. Laser Output Check (disc out)

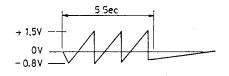
- 1. Apply power meter sensor to pickup.
- Switch Power ON, and check meter during 5 seconds focus search for laser output = 0.08 - 0.3 mW (0.12 mW typical).



2. Focus Search Signal Check (disc out)

Scope setting:

- V: 1.0 V/div, DC in
- H: 0.5-1.0 sec/div
- 1. Connect scope to TP1 (FC).
- 2. Switch power ON, and check focus search wave; also check
- for smooth movement of lens.



- 3. Focus Offset Adjustment (disc out) (Note: DVM may be used) Scope setting (use LPF): V: 10 mV/div, DC in
 - 1. Connect scope to TP1 (FC).
 - 2. Leave power ON minimum 30 sec.
 - 3. Adjust SVR101 for 0 \pm 10 mV DC.

4. Tracking Offset Adjustment (disc out) (Note: DVM may be used)

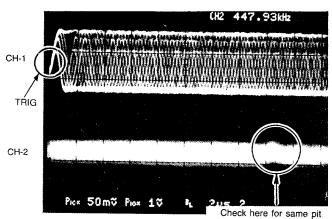
Scope setting (use LPF): V: 10 mV/div, DC in

- 1. Connect scope to TP2 (TC).
- 2. Connect TP3 (TOFF) to GND.
- 3. Adjust SVR142 for 0 \pm 10 mV DC.

5.E-signal Same Pit Check (disc in)

(This checks that 3 beams are all on same track) Scope setting: CH1: 0.5 V/div, AC in CH2: 0.05 V/div, AC in H: 2 μ Sec/div TRIG: CH1, bottom part of wave

- 1. Connect scope: CH1 to TP5(C108)(RF); CH2 to TP4(E).
- 2. Press PLAY (music part of disc), and check wave.

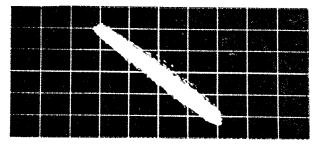


6. Diffraction Grating Check (disc in) Scope setting (use BPF):

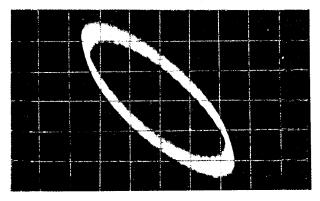
X/Y: 20 mV/div, DC in

- 1. Connect scope: X (hor) to TP4 (E), Y (vert) to TP6 (F).
- 2. Press PLAY, then SKIP to move laser to middle of disc.
- 3. Connect TP7 (TOFS) to GND (tracking off), and check Lissajous wave. (max error 45 degrees)

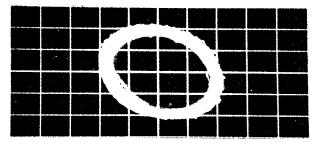
GOOD



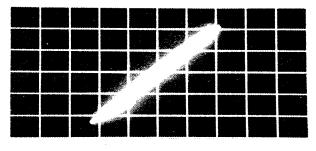
LIMIT MAX (45°)



This manual is provided free, courtesy of CARVERaudio.com 9. Tracking Gain Adjustment (disc in)



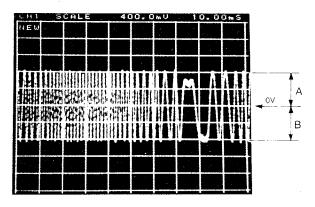
INCORRECT (180°)



7. E/F Balance Adjustment (disc in)

Scope setting:

- V: 0.5 V/div, DC in
- H: 5 mSec/div (or sweep stop)
- 1. Connect scope to TP8 (TE).
- 2. Connect TP9 (DEMO) to TP10 (+5 V), then press PLAY.
- 3. Connect TP7 (TOFS) to GND (tracking off).
- 4. Connect TP11 to GND (LASER ON).
- 5. Adjust SVR141 for 0 V ±150 mV unbalance (offset).





8. Focus Gain Adjustment (disc in)

- 1. Connect 2CH AC VM (use BPF): CH1 to TP1 (FC), CH2 to TP12 (FSW).
- 2. Press PLAY.
- 3. Connect AF Osc (1 kHz, 1.5 Vrms) to TP13, through 220K resistor.
- 4. Adjust SVR102; first for CH1 maximum, then for CH1-CH2=13 ±1 dB.

- 1. Connect 2CH AC VM (use BPF): CH1 to TP2 (TC), CH2 to TP14 (TPRO).
- 2 Press PLAY.
- 3. Connect AF Osc (1.2 kHz, 250 mVrms) to TP15, through 220K resistor.
- 4. Adjust SVR143; first for CH1 maximum, then for CH1-CH2=5 ±1 dB.

10. VCO Adjustment (disc in or out)

- 1. Connect frequency counter to TP16 (FSEQ/PCK).
- 2. Press RESET (stop),
- 3. Adjust L201 for 4.3218 ±0.01 MHz.

NOTES: FAILURE OF CHECKS:

- 1. Failure of Laser Output Check means that characteristic of laser diode or output monitor diode has changed; complete failure may occur soon. Adjustment is not recommended, laser pickup assy should be replaced.
- 2. Failure of E-signal Same Pit Check means diffraction grating severely misaligned: failure of Diffraction Grating Check means less-severely misaligned. This may result in poor tracking (skip). Since this is usually caused by damage to laser pickup assy, it should be replaced. (Adjustment is not recommended. It requires to do both checks at same time, using two scopes; and is usually not successful.)

DEMO PLAY STATE:

Connect TP9 (DEMO) to TP10 (+5 V), then press PLAY. The system is brought into Play state by LSI (not by microcomputer).

In this case, the system can not be turned off even if tracking servo is stopped.

This is necessary for E/F Balance adjustment, and can also be helpful when troubleshooting for cause of problems.

TRANSPORTICHECKING provided free, courtesy of CARVERaudio.com

Pick-Up Head Replacement

How to remove pick-up head.

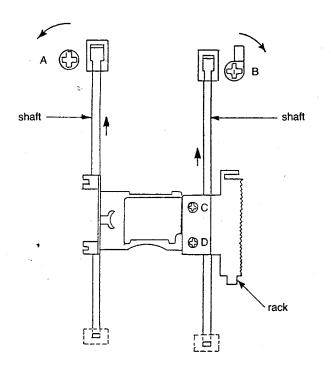
- 1) Rotate the stoppers labeled "A" and "B" in the directions shown in the Figure below.
- 2) Remove both shafts and slide the pick-up head off the shafts.
- 3) Remove the two screws labeled "C" and "D".

How to install pick-up head.

- 1) Attach the rack to the pick-up head with screws "C" and "D".
- 2) Slide the pick-up head onto both shafts, as shown in the Figure below.
- Slide shafts into place, and rotate the stoppers labeled "A" and "B" into locking position.

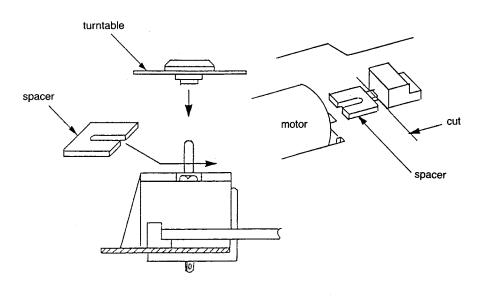
Cautions on Replacement of Pick-up

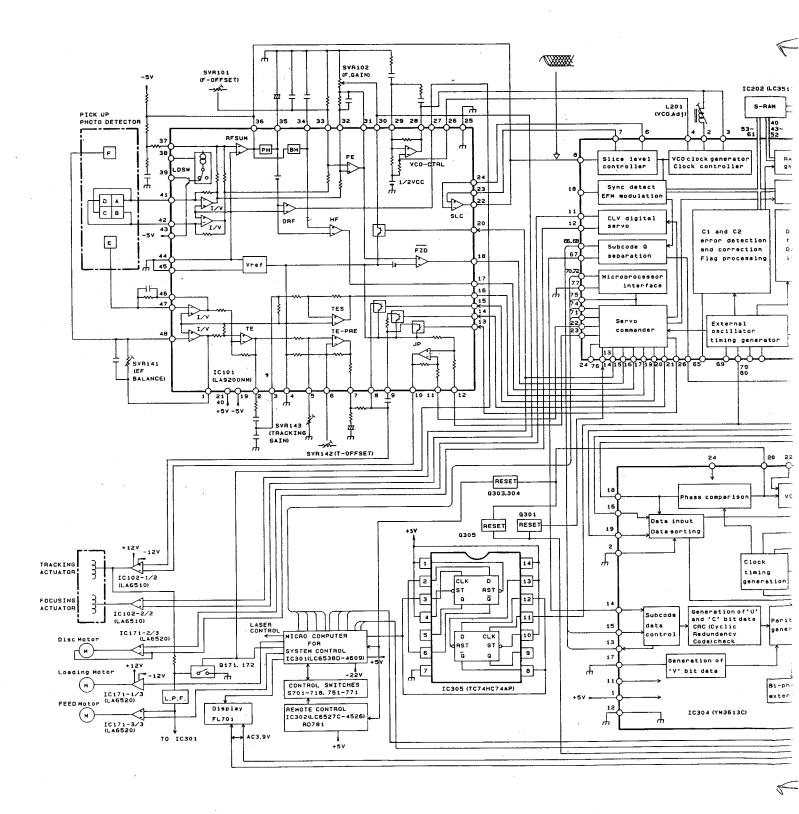
- 1. Do not touch the terminals on the pick-up with your hand when removing the laser pick-up.
- 2. Cover the work bench with a conductive mat which is also grounded.
- 3. Before proceeding with job, always touch the conductive mat or ground lead with both hands to discharge electric charges developed on your body.
- 4. To protect your vision do not expose your eyes to the direct laser light. The beam is focused at a distance of 2 mm from the lens.



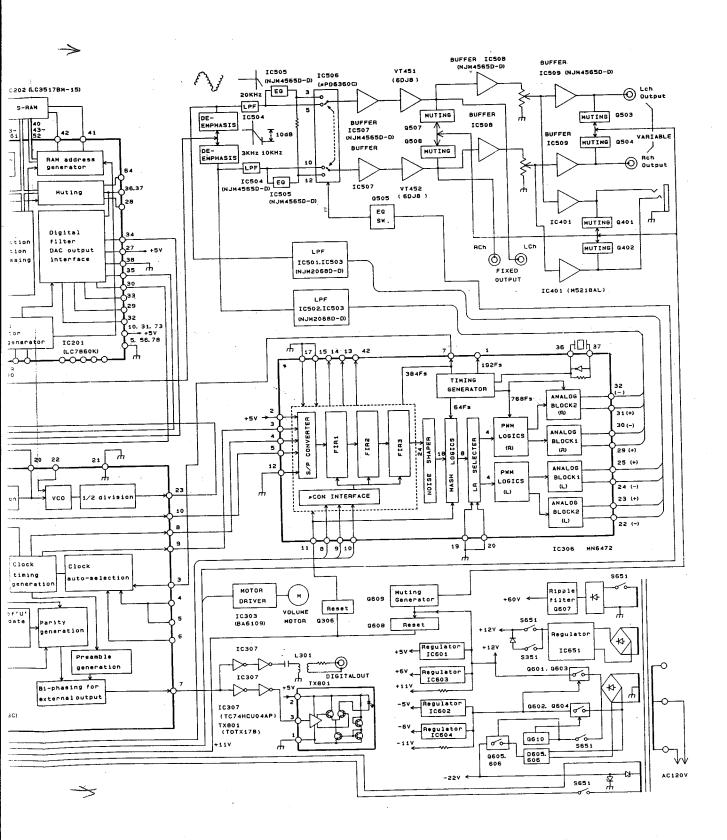
Motor Replacement

If the disc motor is defective, replace it with a new one as shown in the Figure below.





9

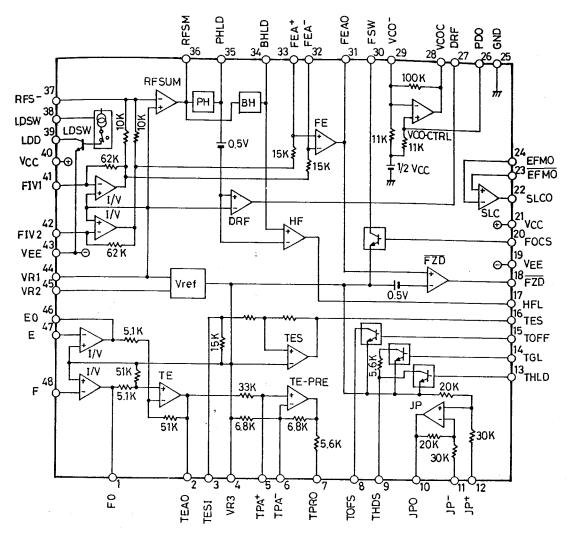


SAMAGE

10

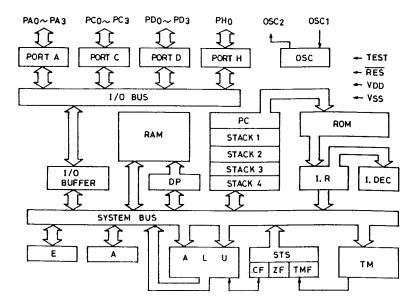
IC BLOCK DIAGRAMS

LA9200NM (IC101)

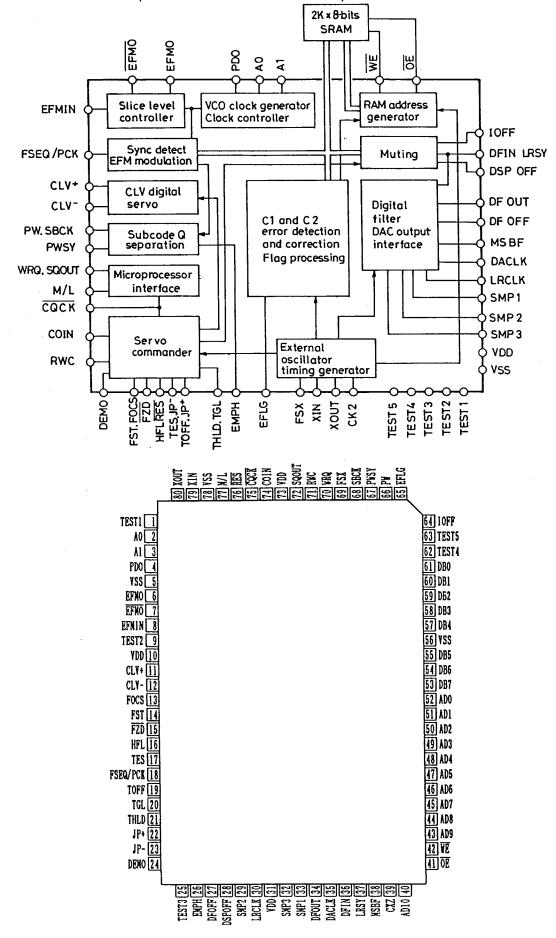


LC6527C-4526 (IC302)

OSCI 1	18 OSC2/PHO
TEST 2	17 PD3
VSS 3	16 PD2
RES 4	15 PD1
PAO 5	14 PD0
PAI 6	13 PC3
PA2 7	12 PC2
PA3 8	11 PC1
YDD 9	10 PC0

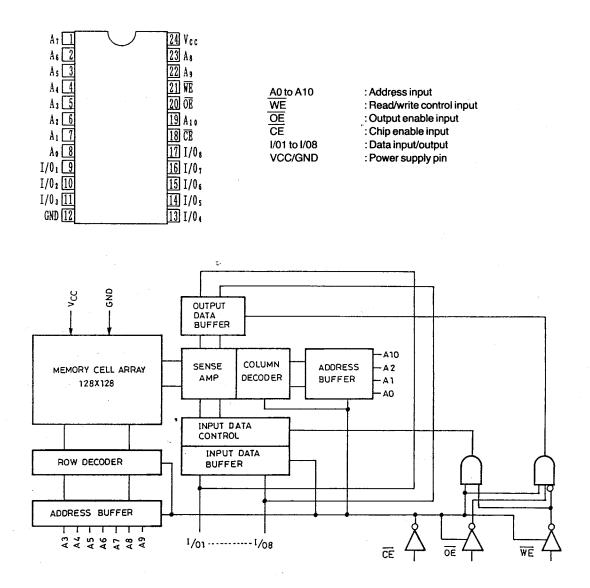


LC7860K (ICtais) manual is provided free, courtesy of CARVERaudio.com

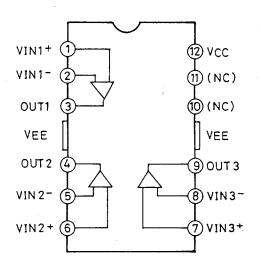


12

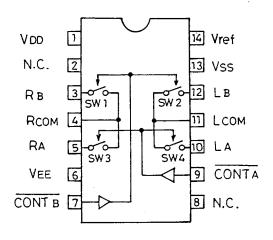
LC3517BM-Tehris2002) anual is provided free, courtesy of CARVERaudio.com



LA6520 (IC171)

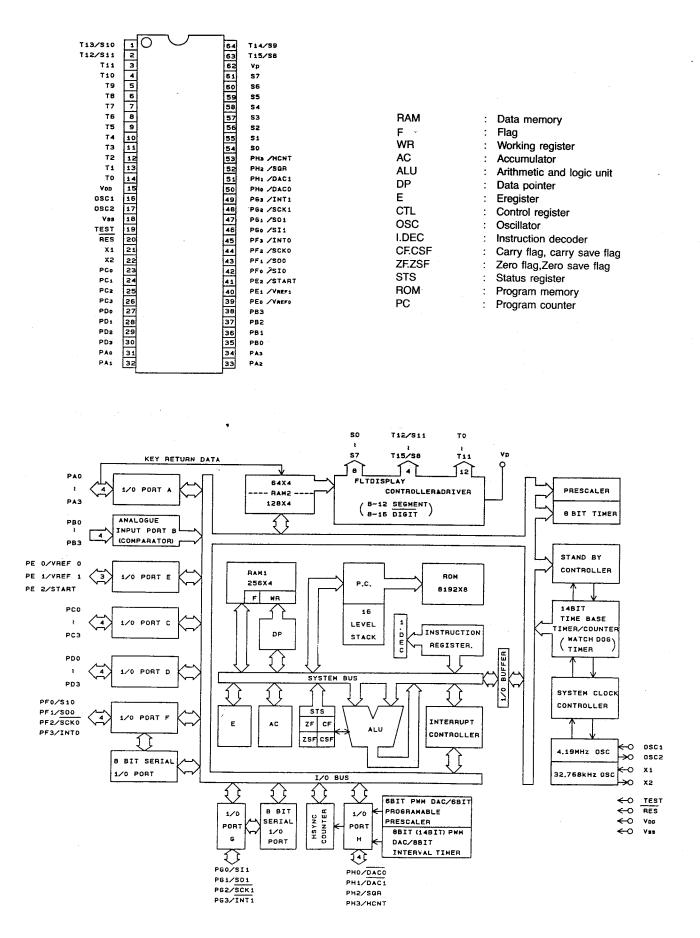


UPD6360C (IC506)



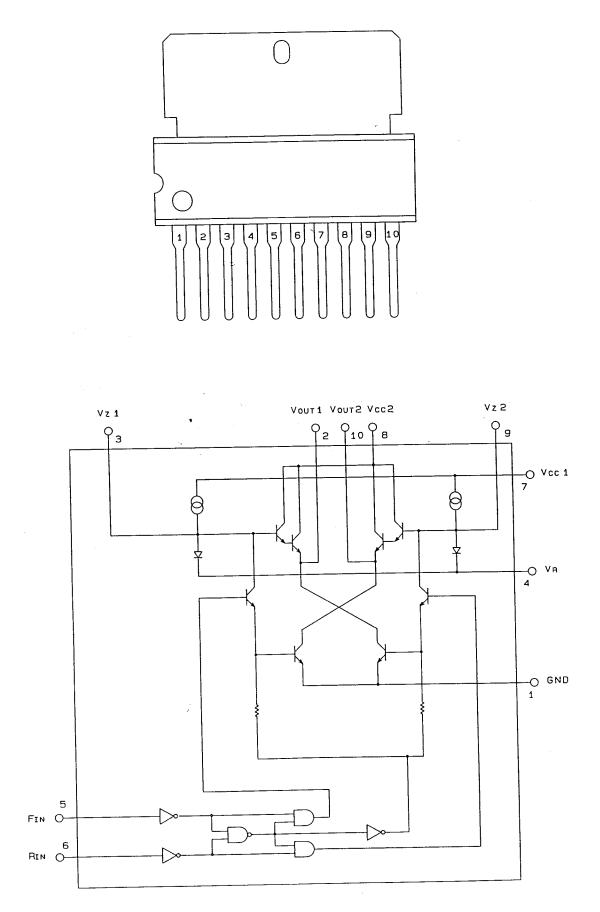
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LC6538D-4Ebaiguessennual is provided free, courtesy of CARVERaudio.com



14

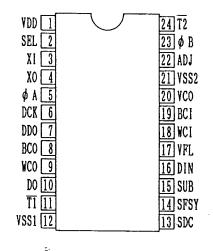
BAG109 (IC303) his manual is provided free, courtesy of CARVERaudio.com

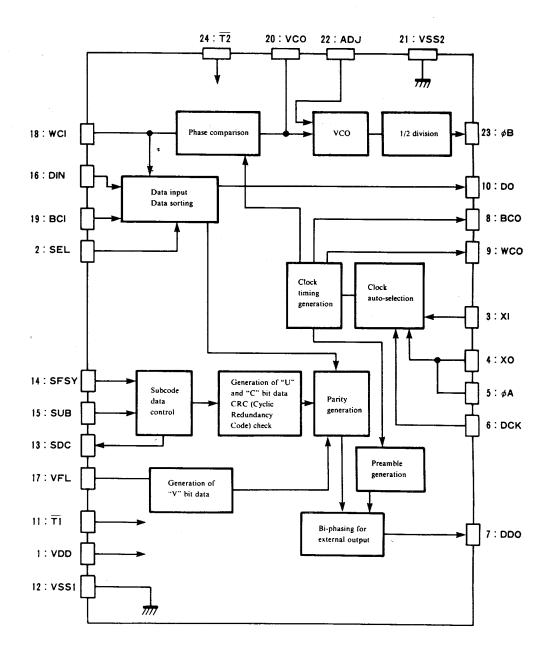


ALCOUNT DURING THE

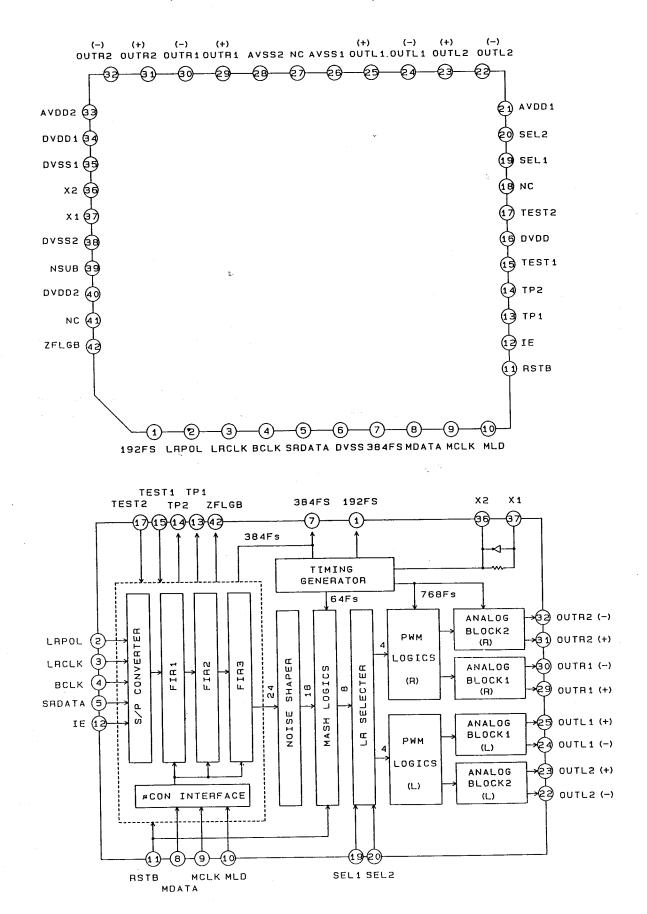
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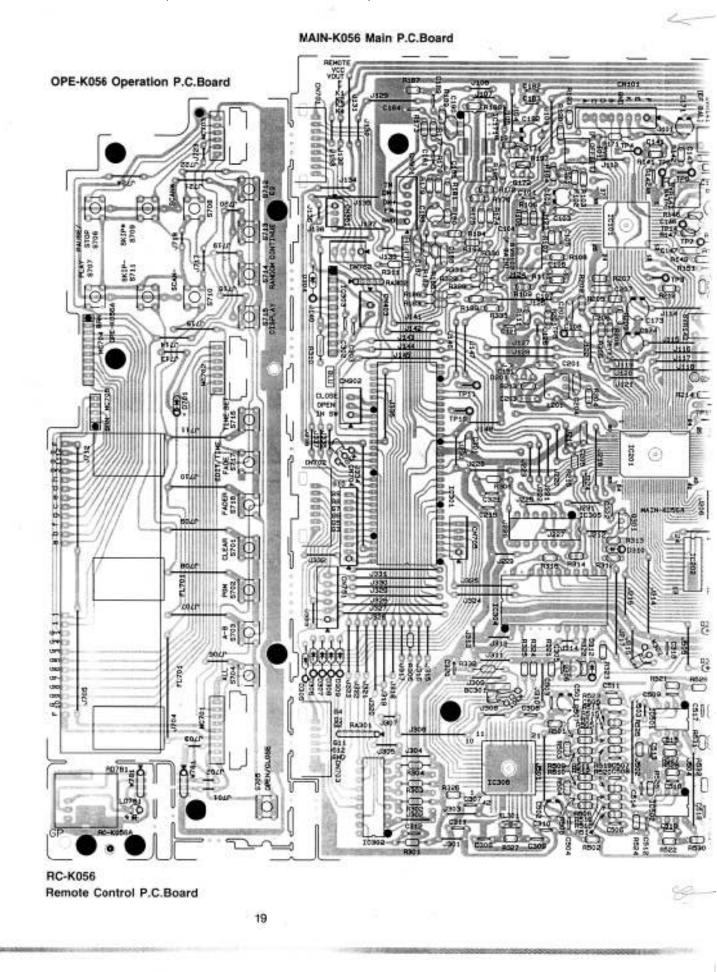




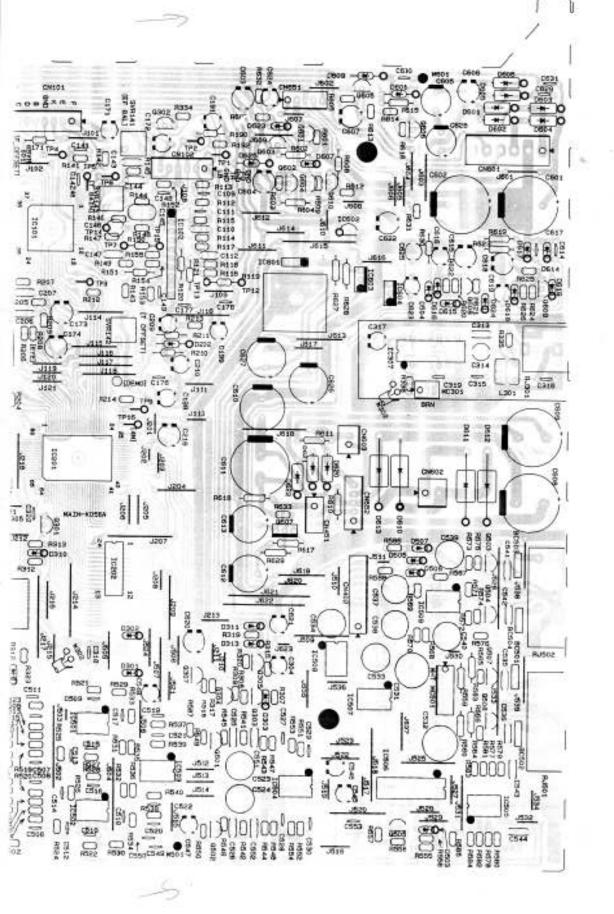
16



(production)

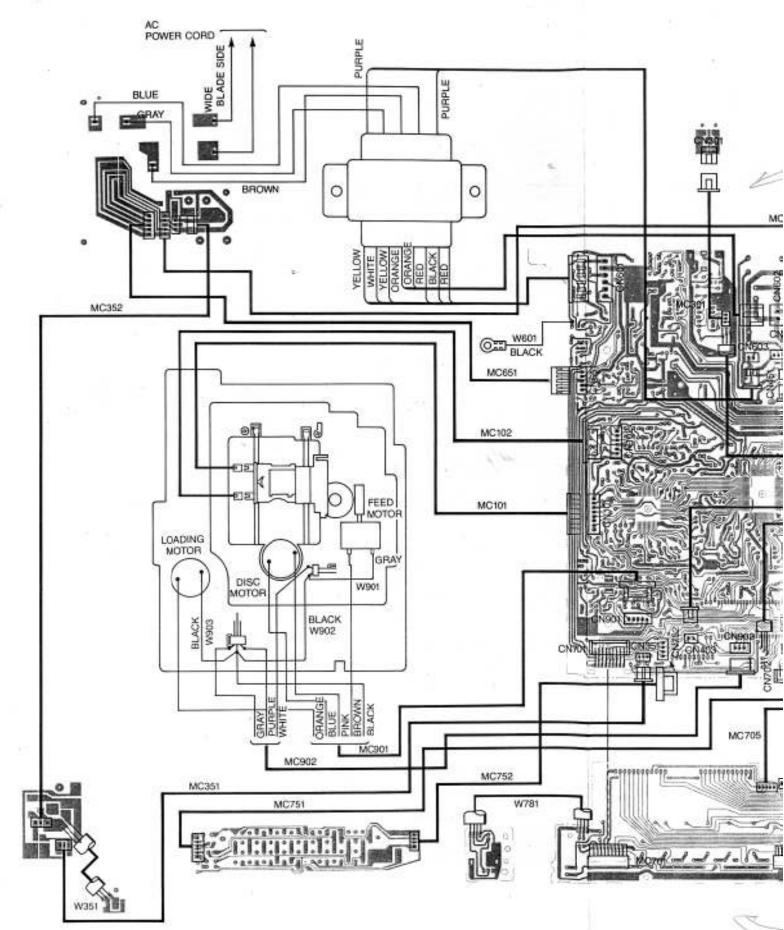


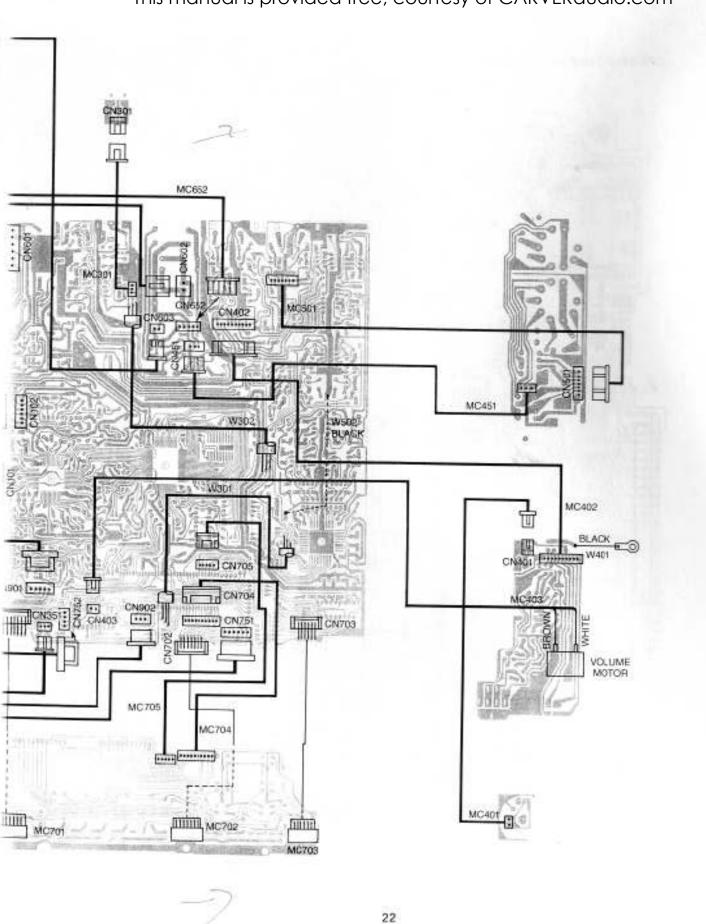




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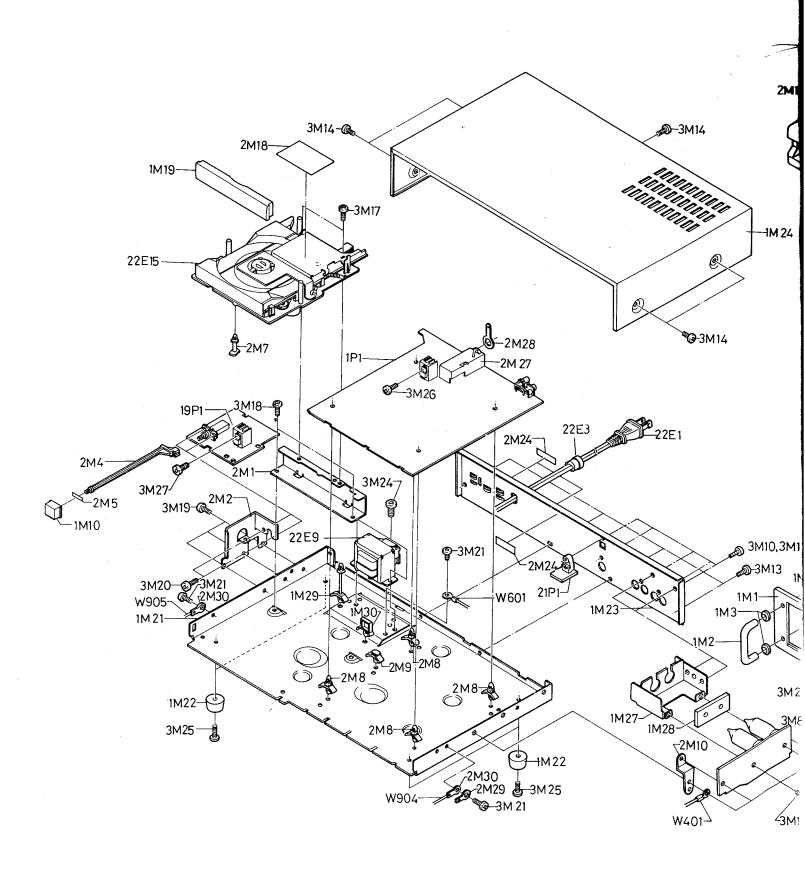
WIRING DIAGRAM



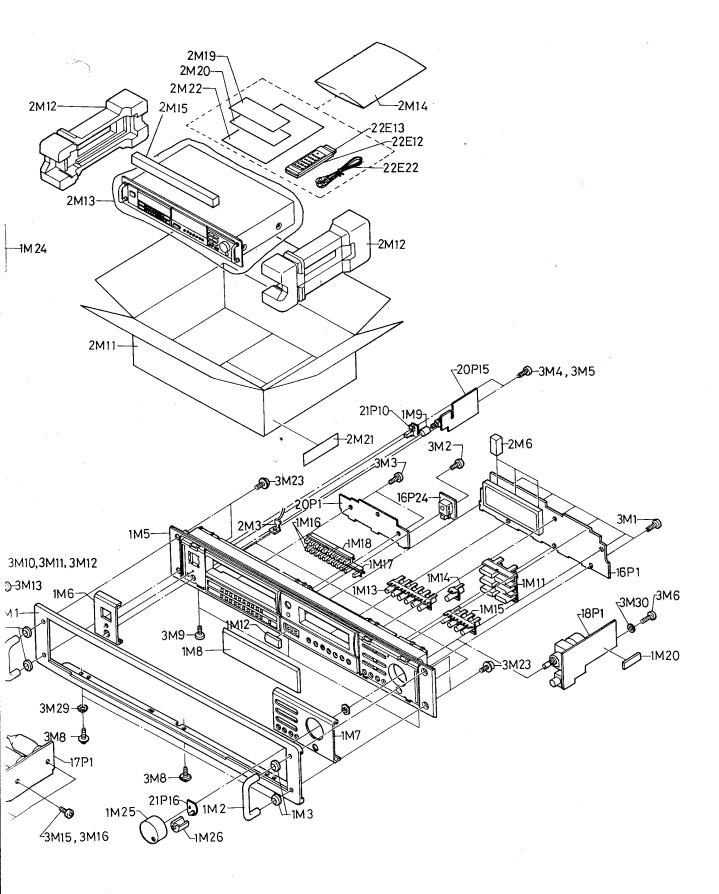


EXPLODED VIEWS This manual is provided free, courtesy of CARVERaudio.com

Main Unit and Packing

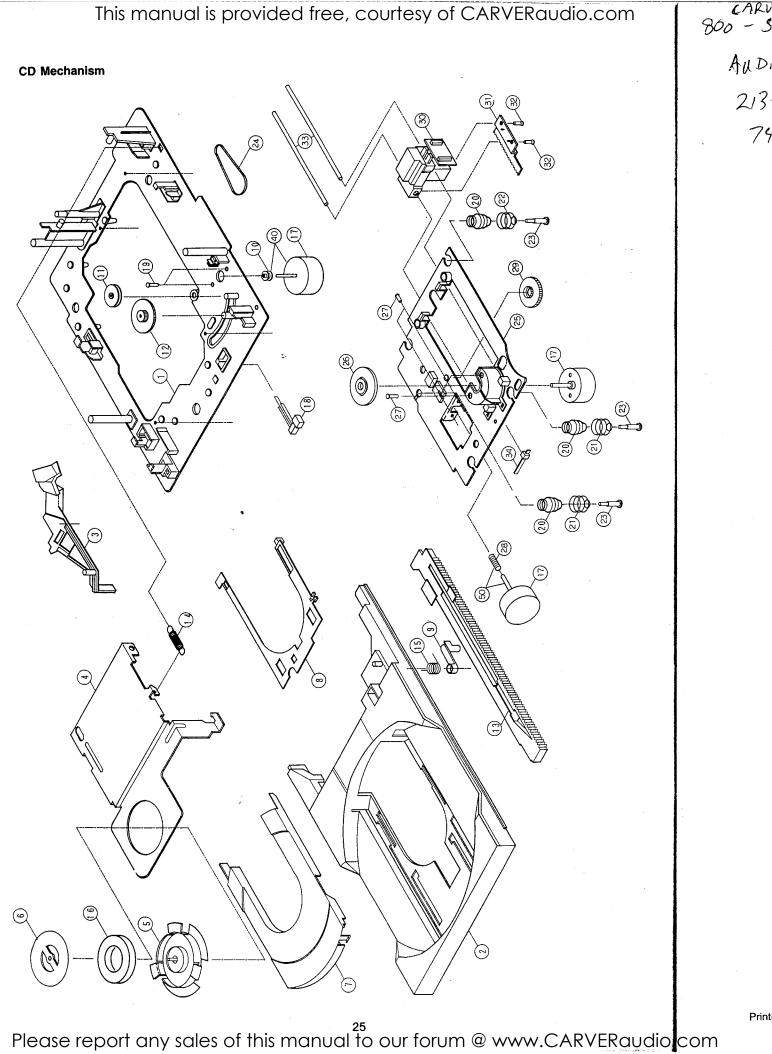


23



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24



VOLTAGE CONVERSION

220V/50Hz Version

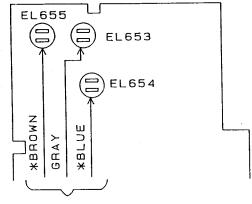
Bill of Materials

Q'ty	Part No.	Description
1	530-10091-00	LABEL 220V AC/50HZ
1	530-10159-00	LABEL VOLTAGE CONVERSION
1	530-10013-00	LABEL MILITARY CONVERSION

Directions for change (120V to 220V)

- 1: Locate Power Supply P.C. Board (PS-K057) in left rear corner of unit.
- 2. Solder Brown lead wire from Power Transformer to Terminal EL655 (see Figure 2).
- 3. Solder Blue lead wire from Power Transformer to Terminal EL654.
- 4. Apply the label 530-10091-00 over the AC 120V 60HZ 0.12A printing near the linecord.
- 5. Using spray adhesive, mount the Voltage Conversion Label (530-10159-00) to the inside of the top cover.
- 6. Apply the Military Conversion Label (530-10013-00) to the bottom of unit.

*220V/50Hz Version PS-K057 POWER SUPPLY P.C.BOARD



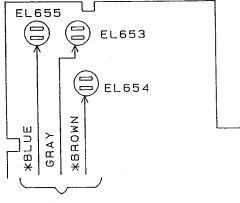
to power Transformer

Fig.2

Directions for Change (220V to 120V)

- Locate Power Supply P.C. Board (PS-K057) in left rear corner of unit.
- 2. Solder Brown lead wire from Power Transformer to Terminal EL654 (see Figure 3).
- 3. Solder Blue lead wire from Power Transformer to Terminal EL655.
- 4. Remove the 220V AC/50HZ label near the linecord.
- NOTE: Gray lead wire from Power Transformer soldered to Terminal EL653 is the common connection for both 120V and 220V power Supplies.

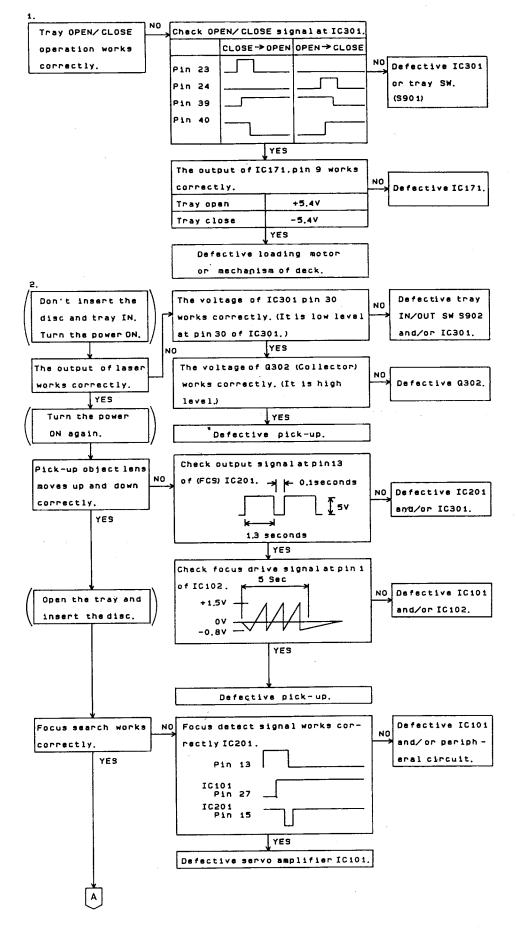
*120V/60Hz Version PS-K057 POWER SUPPLY P.C.BOARD



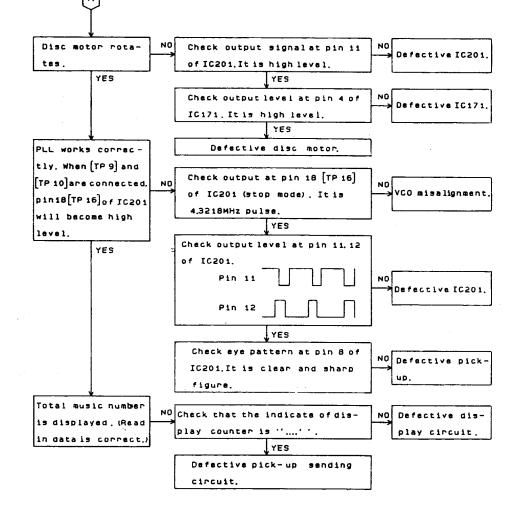
to power Transformer



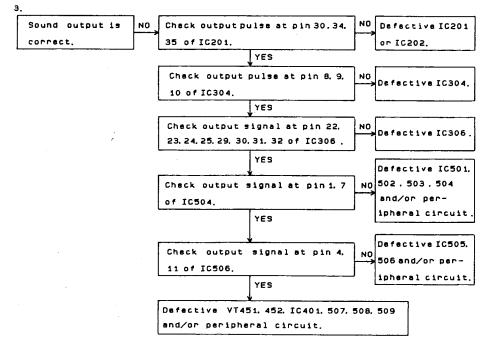
TROUBLESHOOTING GUIDE provided free, courtesy of CARVERaudio.com



27

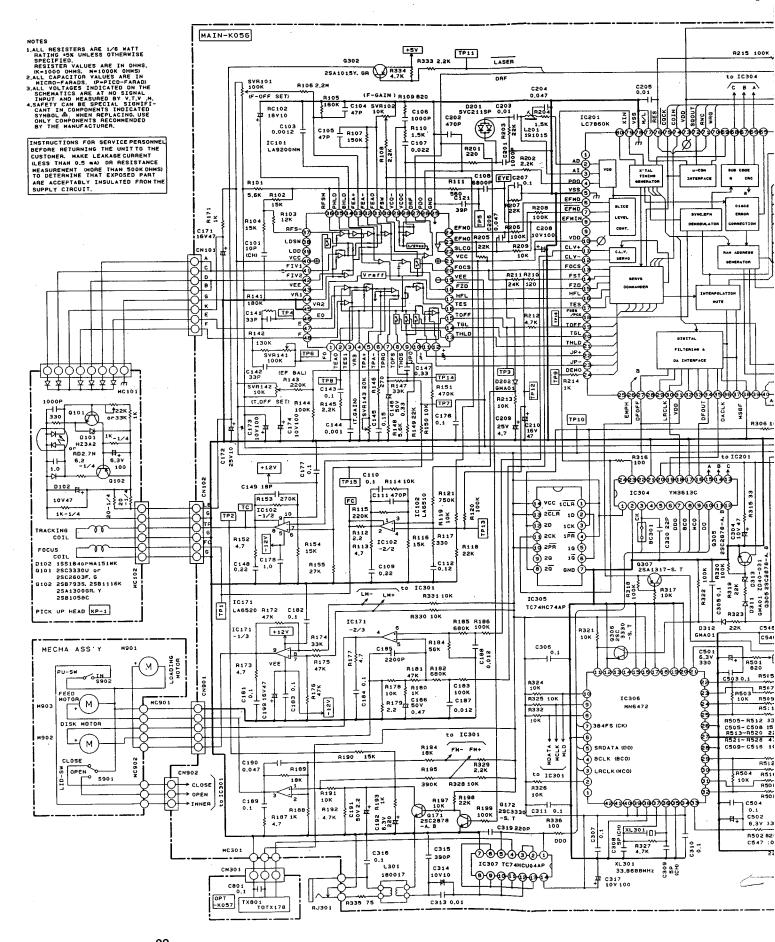


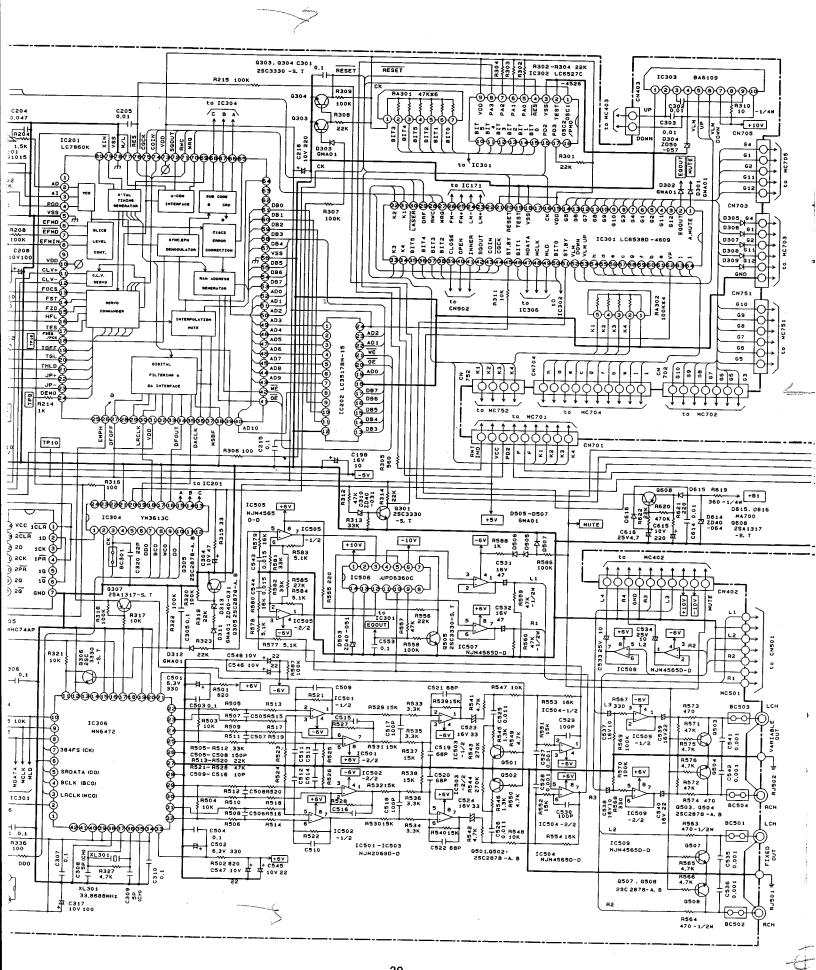
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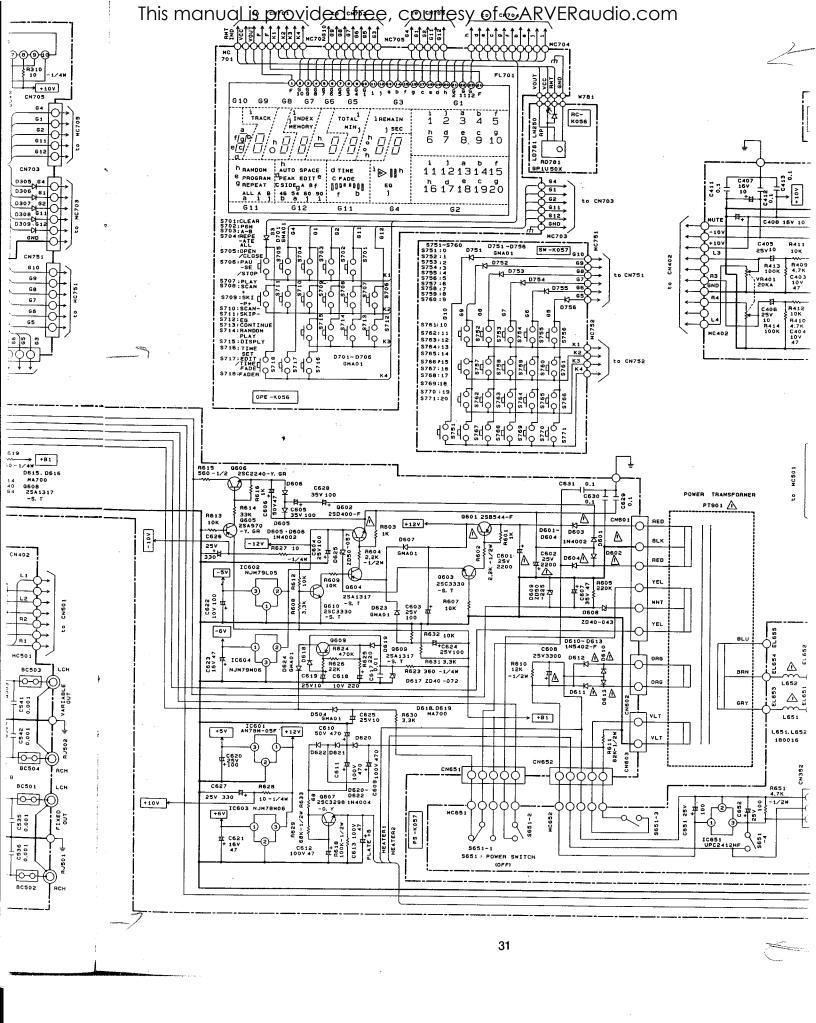
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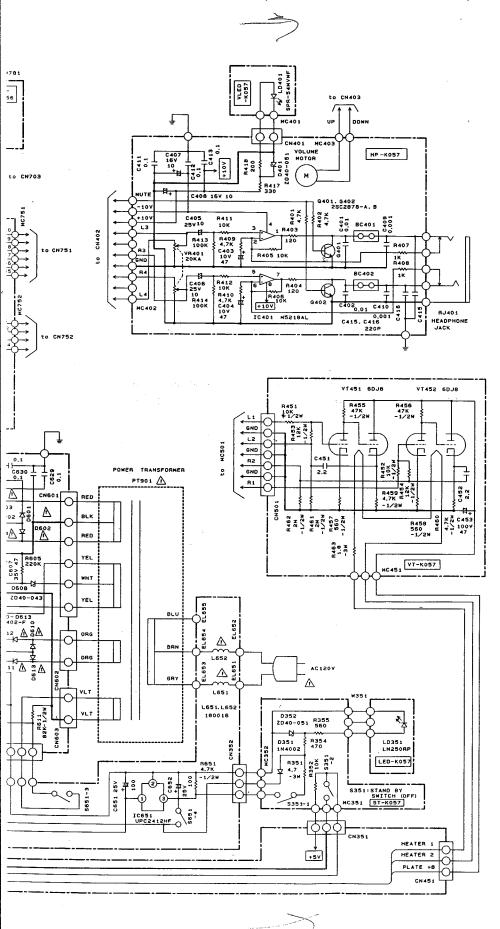
SCHEMATIC DIAGRAM





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32

MAIN	PCB	ASS'Y	
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-10V

+100

	' 1 Y	CARVER PART NO	DESCRIPTION	REF. NO.	3.	TY CARVER PART NO	DESCRIPTION
P.C.BOARD 1E 1	1	MAIN-K056	PRINTED CLOCHET PRINT	C187+188		2 MY-50VU123J	HYLAR CAPACITOR
	1	NAI4-KU30	PRINTED CIRCUIT BOARD	C189 C190	1		IBL. CERAMIC CAPACITOR
SEMI CONDUCTORS				C191	1		MYLAR CAPACITOR
D 20 1	1	SVC211SP-B+C	3001D	C192	i		ELECTROLYTIC CAPACITOR ELECTROLYTIC CAPACITOR
0202,301~	4	GMA01	DIODE	C198		1 NS-16TW100M	ELECTROLYTIC CAPACITOR
303 D304	•	7050 057		C199	1		ELECTROLYTIC CAPACITOR
D305~309	1 5	Z050-057 GMA01	ZENER DIODE,1/2W,5.7V DIODE	C 201	1		MYLAR CAPACITOR
D310	í	ZD40-031	ZENER DIODE, 2/5W, 3.1V	C 20 2 C 20 3	1	1 ECQP-1471JZ 1 MY-50VU103J	POLYESTER FILM CAPACITOR
D311,312	2	GMA01	DIODE	C204	1		MYLAR CAPACITOR Mylar capacitor
0313	1	ZD40-031	ZENER DIODE, 2/5W, 3.1V	C205	1		MYLAR CAPACITOR
D503	1	ZD40-051	ZENER DIODE, 2/5W, 5.1V	C206	1	1 MY-50VU473j	NYLAR CAPACITOR
D504~507 D601~606	4 6	GMA01 1N4002		C207		1 MY-50VU104J	MYLAR CAPACITOR
D607	ĭ	GMA01	DIODE	C209 C210	1		ELECTROLYTIC CAPACITOR
D608	ī	ZD40-043	ZENER DIDDE+2/5W+4.3V	C215	1	1 NS-16TW470H 1 XC75SJYF104Z	ELECTROLYTIC CAPACITOR IBL. CERAMIC CAPACITOR
D609	1	2050-225	ZENER DIODE,1/2W,22.5V	C216	-	1 NS-10TW221H	ELECTROLYTIC CAPACITOR
D610~613	4	1N5402-F	DIODE	C301	1	1 MY-50VU104J	MYLAR CAPACITOR
D614 D615,616	1	ZD40-064	ZENER DIDDE, 2/5W, 6.4V	C 302,303		2 HE70SJYF103Z	CERAMIC CAPACITOR
D617	ĩ	MA700 ZD40-072	DIODE ZENER DIODE,2/5W, 7.2V	C304 C305~307		1 NS-10TW470M	ELECTROLYTIC CAPACITOR
D618,619	2	MA700	DIODE	C308+309		3 XC75SJYF104Z 2 HE40SJCH050D	IBL. CERAMIC CAPACITOR
D620~622	3	1N4004	DIODE	C310,311		2 XC75SJYF104Z	CERAMIC CAPACITOR IBL. CERAMIC CAPACITOR
D623+624	2	GMA01	DIODE	C313		1 MY-50VU103J	MYLAR CAPACITOR
D625	1	ZD50-057	ZENER DIODE,1/2W,5.7V	C314	1		ELECTROLYTIC CAPACITOR
9171	1	2562828 4 0		C315	1		CERAMIC CAPACITOR
0172,301	1 2	25C2878-A→B 25C3330-S→T	TRANSISTOR TRANSISTOR	C316	1		IBL. EERAMIC CAPACITOR
9302	ĩ	25A1015-Y,GR	TRANSISTOR	C317 C319	1		ELECTROLYTIC CAPACITOR
Q303,304	2	25C3330-5+T	TRANSISTOR	C320	1		CERAMIC CAPACITOR CERAMIC CAPACITOR
9305	1	2SC2878-A,B	TRANSISTOR	C501,502		2 NS6R3TW331M	ELECTROLYTIC CAPACITOR
9306	1	25C3330-5,T	TRANSISTOR	C 50 3 • 50 4	2	Z XC75SJYF104Z	IBL. CERAMIC CAPACITOR
Q307	1	25A1317-5+T	TRANSISTOR	C505~508		4 HE60SJSL151J	CERAHIC CAPACITOR
Q501~504 Q505	4	2SC2878-A,B 2SC3330-S,T	TRANSISTOR	C509~516		B HE40SJSL100D	CERAMIC CAPACITOR
9507,508	2	2SC2878-A+B	TRANSISTOR TRANSISTOR	C517,518 C519~522	. 2	2 HE50SJSL101J 4 HE40SJSL680J	CERAMIC CONDENSER
9601	1	258544-F	TRANSISTOR	C523,524		2 NP-16TW330M	CERAMIC CAPACITOR ELECTROLYTIC CAPACITOR
8605	1	25D400-F	TRANSISTOR	C525,526		2 MY-50VU113J	MALAR CAPACITOR
0603	1	25C3330-5+T	TRANSISTOR	C527,528		2 MY-50VU102J	MYLAR CAPACITOR
9604	1	25A1317-S,T	TRANSISTOR	C529,530	2		CERAMIC CONDENSER
3605 3606	1	25A970-Y,GR 25C2240-Y,GR	TRANSISTOR TRANSISTOR	C531,532	2		ELECTROLYTIC CAPACITOR
9607	ĩ	25C3298-0+Y	TRANSISTOR	C533+534 C535+536	2		NON-POLAR ELECTROLYTIC C.
9608,609	2	25A1317-5+T	TRANSISTOR	C537,538	ź		MYLAR CAPACITOR
3610	1	25C3330-5+T	TRANSISTOR	C539,540		2 NP-16TW220M	NON-POLAR ELECTROLYTIC C. ELECTROLYTIC CAPACITOR
				C541,542	2		MYLAR CAPACITOR
IC101		LA9200NM	10	C543,544	2		MYLAR CAPACITOR
IC102 IC171	1	LA6510 LA6520	IC	C545~548		NS-16TW220M	ELECTROLYTIC CAPACITOR
IC 201	î	LC7860K		C553 C601,602	1		IBL. CERAMIC CAPACITOR
1C202	ī	LC35178M-15	ič	C603,604	2	2 NS-25TW101N	ELECTROLYTIC CAPACITOR! ELECTROLYTIC CAPACITOR
1C301	1	LC6538D-4609	10	C 60 5	1		ELECTROLYTIC CAPACITOR
10302	1	LC6527C-4526	IC	C606	1		ELECTROLYTIC CAPACITOR
IC303 IC304	1	BA6109	IC	C607	1		ELECTROLYTIC CAPACITOR
10305	1	YM3613C TC74HC74AP		C 608 C 609	1	I NS-25TW332M-KF	ELECTROLYTIC CAPACITORI
1C306	î	MN6472H	ic	C610	1	L NS1991W471M-KF	ELECTROLYTIC CAPACITOR! ELECTROLYTIC CAPACITOR!
IC307	1	TC74HCU04AP	IC	C611	ī		ELECTROLYTIC CAPACITOR!
IC501~503	3	NJM20.68D-D	IC	C612,613	2		ELECTROLYTIC CAPACITORI
10504,505	2	NJH4565D-D	IC	C 61 4	1	L HE70SJYF103Z	CERAMIC CAPACITOR
IC506 IC507~509	1 3	UPD6360C	IC	C 615	1		ELECTROLYTIC CAPACITOR
IC601	1	NJM4565D-D UPC78M05HF		C616 C617	1		ELECTROLYTIC CAPACITOR
10602	i	NJM79L05A	ic	C618	1		CERANIC CAPACITOR ELECTROLYTIC CAPACITOR
10603	1	NJM78M06FA	IC	C619,620	ź		ELECTROLYTIC CAPACITOR
1C604	1	NJH79M06FA	10	C621	1	NS-16TW470M	ELECTROLYTIC CAPACITOR
CADACITODS				C622	1		ELECTROLYTIC CAPACITOR
CAPACITORS C101	1	HE40SJCH100D	CERANIC CARACITOR	C 623	1		ELECTROLYTIC CAPACITOR
C102	1	NS-16TW100M	CERAMIC CAPACITOR ELECTROLYTIC CAPACITOR	C 62 4 C 62 5	1		ELECTROLYTIC CAPACITOR
C103	1	MY-50VU122J	MYLAR CAPACITOR	C626,627	2		ELECTROLYTIC CAPACITOR ELECTROLYTIC CAPACITOR!
C104,105	2	HE405JSL470K	CERAMIC CAPACITOR	C623	1		ELECTROLYTIC CAPACITOR!
C106	1	MY-50VU102J	MYLAR CAPACITOR	C629~631	3		IBL. CERAMIC CAPACITOR
C107	1	NY-50VU223J	HYLAR CAPACITOR				
C108 C109	1 1	MY-50VU682J XB10SJYF224Z	HYLAR CAPACITOR	RESISTORS		V114575/5-	CA0000 05-1
C110	1	MY-50VU104J	IBL. CERANIC CAPACITOR MYLAR CAPACITOR	R101 R102	1		CARBON RESISTOR
č111	i	HE40SJY8471K	CERAMIC CAPACITOR	R103	1		CARBON RESISTOR CARBON RESISTOR
C112	1	MY-50VU124J	MYLAR CAPACITOR	R104	1		CARBON RESISTOR
C121	1	HE40SJSL390J	CERAMIC CAPACITOR	R105	1	KA165T164J	CARBON RESISTOR
C141,142	2	HE40SJSL330J	CERAMIC CAPACITOR	R106	1	KA16ST225J	CARBON RESISTOR
C143 C144	1 1	MY-50VU104J MY-50VU102J	MYLAR CAPACITOR	R107	1		CARBON RESISTOR
C144 C145	1	MY-50V0102J MY-50V0154J	HYLAR CAPACITOR HYLAR CAPACITOR	R108 R109	1		CARBON RESISTOR
C146	1	NP-50TWR33M	ELECTROLYTIC CAPACITOR	R110	1	L KA16ST821J L KA16ST152J	CARBON RESISTOR CARBON RESISTOR
C147	î	505MC334J	METALLIZED FILM CAPACITOR	R111	1		CARBON RESISTOR
C148	ī	XB10SJYF224Z	IBL. CERAMIC CAPACITOR	R112	1		CARBON RESISTOR
C149	1	HE40SJSL180K	CERAMIC CAPACITOR	R113	1	KA16ST4R7J	CARBON RESISTOR
C171	1	NS-16TW470M	ELECTROLYTIC CAPACITOR	R114	1		CARBON RESISTOR
C172	1 2	NS-25TW100M	ELECTROLYTIC CAPACITOR	8115	1	KA16ST224J	CARBON RESISTOR
C173,174	27	NS-10TW101M XC75SJYF104Z	ELECTROLYTIC CAPACITOR	R116	1		CARBON RESISTOR
	'	ACT JJJ1F1042	IBL. CERANIC CAPACITOR	R117	1		CARBON RESISTOR
C176~178, 181~184			1				
181~184 C185	1	MY-50VU222J	MYLAR CAPACITOR	R118 R119	1		CARBON RESISTOR

30

iii.

REF. NO.	Q'TY CARVER PART	NO. DESCRIPTION	REF. NO. Q'TY CARVER PART NO. DESCRIPTION
R121	1 KA165T754J	CARBON RESISTOR	R543,544 2 KA16ST274J CARDON RESISTOR
R141	1 KA16ST184J	CARBON RESISTOR	R545,546 2 KA16ST132J CARBON RESISTOR
R142	1 KA16ST134J	CARBON RESISTOR	R547;548 2 KA16ST103J CARBON RESISTOR R549;550 2 KA16ST472J CARBON RESISTOR
R143 R144	1 KA16ST224J 1 KA16ST104J	CARBON RESISTOR CARBON RESISTOR	R549,550 2 KA16ST472J CARBON RESISTOR R551,552 2 KA16ST153J CARBON RESISTOR
R144 R145	1 KA165T222J	CARBON RESISTOR	2553,554 2 KAI6STI63J CARBON RESISTOR
R146	1 KA16ST271J	CARBON RESISTOR	R555 1 KA16ST221J CARBON RESISTOR
R147	1 KA16ST333J	CARBON RESISTOR	R556 1 KA16ST223J CARBON RESISTOR
R148	1 KA16ST562J	CARBON RESISTOR	R557 1 KA16ST473J CARBON RESISTOR
R149 R150	1 KA16ST223J 1 KA16ST103J	CARBON RESISTOR	R558 1 KA16ST104J CARBON RESISTOR R559,560 2 KA50XT473J CARBON RESISTOR
R151	1 KA165T474J	CARBON RESISTOR CARBON RESISTOR	R559,560 2 KA50XT473J CARBON RESISTOR R563,564 2 KA50XT471J CARBON RESISTOR
R152	1 KA165T4R7J	CARBON RESISTOR	R565,566 2 KA16ST472J CARDON RESISTOR
R153	1 KA165T274J	CARBON RESISTOR	R567,568 2 KA16ST331J CARBON RESISTOR
R154	1 KA16ST153J	CARBON RESISTOR	R569,570 2 KA16ST104J CARBON RESISTOR
R155 R171	1 KA16ST273J 1 KA16ST102J	CARBON RESISTOR	R571,572 2 KA16ST473J CARBON RESISTOR R573,574 2 KA16ST471J CARBON RESISTOR
R172	1 KA16ST473J	CARBON RESISTOR CARBON RESISTOR	R573,574 2 KA16ST471J CARBON RESISTOR R575,576 2 KA16ST472J CARBON RESISTOR
R173	1 KA16ST4R7J	CARBON RESISTOR	R577,578 2 KA16ST512J CARBON RESISTOR
R174	1 KA16ST333J	CARBON RESISTOR	R579,580 2 KA16ST163J CARBON RESISTOR
R175,176	2 KA16ST473J	CARBON RESISTOR	R581,592 2 KA16ST333J CARBON RESISTOR
R177 R178	1 KA16ST4R7J 1 KA16ST103J	CARBON RESISTOR	R583,584 2 KA16ST512J CARBON RESISTOR
R179	1 KA16ST103J 1 KA16ST2R2J	CARBON RESISTOR Carbon resistor	R585 1 KA16ST273J CARBON RESISTOR R586,587 2 KA16ST104J CARBON RESISTOR
R180	1 KA165T2R2J	CARBON RESISTOR	R586,587 2 KA16ST104J CARBON RESISTOR R588,601 2 KA16ST102J CARBON RESISTOR
R181	1 KA16ST473J	CARBON RESISTOR	R602 1 KA50XT222J CARBON RESISTOR
R182	1 KA16ST694J	CARBON RESISTOR	R603 1 KA16ST102J CARBON RESISTOR
R183	1 KA16ST104J	CARBON RESISTOR	R604 1 KA50XT222J CARBON RESISTOR
R184 R185	1 KA16ST563J 1 KA16ST684J	CARBON RESISTOR	R605 1 KA16ST224J CARBON RESISTOR R607 1 KA16ST103J CARBON RESISTOR
R186	1 KA16ST104J	CARBON RESISTOR Carbon resistor	R607 1 KA16ST103J CARBON RESISTOR R608 1 KA16ST332J CARBON RESISTOR
R187	1 KA16ST4R7J	CARBON RESISTOR	R609 1 KA16ST103J CARBON RESISTOR
R188	1 KA16ST102J	CARBON RESISTOR	R610 1 KA50XT123J CARBON RESISTOR
R189	1 KA16ST183J	CARBON RESISTOR	R611 1 KA50XT823J CARBON RESISTOR
R190	1 KA16ST153J 1 KA16ST103J	CARBON RESISTOR	R612,613 2 KA16ST103J CARBON RESISTOR R614 1 KA16ST333J CARBON RESISTOR
R191 R192	1 KA16ST103J 1 KA16ST472J	CARBON RESISTOR CARBON RESISTOR	R614 1 KA16ST333J CARBON RESISTOR R615 1 KA50XT561J CARBON RESISTOR
8193	1 KA16ST102J	CARBON RESISTOR	R616 1 KA16ST102J CARBON RESISTOR
R194	1 KA16ST183J	CARBON RESISTOR	R618 1 KA50XT104J CARHON RESISTOR
R195	1 K416ST394J	CARBON RESISTOR	R619 1 KA25ST361J CARBON RESISTOR
R197	1 KA16ST103J	CARBON RESISTOR	R620 1 KA16ST474J CARBON RESISTOR
R198 R199	1 KA16ST223J 1 KA16ST104J	CARBON RESISTOR CARBON RESISTOR	R621 1 KA16ST221J CARBON RESISTOR R622 1 KA16ST223J CARBON RESISTOR
R 201	1 KA165T221J	CARBON RESISTOR	R623 1 KA25ST361J CARBON RESISTOR
R202	1 KA165T222J	CARBON RESISTOR	R624 1 KA16ST474J CARBON RESISTOR
R203	1 KA165T223J	CARBON RESISTOR	R625 1 KA16ST221J CARBON RESISTOR
R 204	1 KA16ST152J	CARBON RESISTOR	R626 1 KA16ST223J CARBON RESISTOR
R205 R206	1 KA16ST223J 1 KA16ST104J	CARBON RESISTOR	R627,628 2 FR25ST100J-LP FLAME PROOF RESISTOR R629 1 KA50XT683J CARBON RESISTOR
R207	1 KA165T223J	CARBON RESISTOR Carbon resistor	R629 1 KA50XT683J CARBON RESISTOR R630,631 2 KA16ST332J CARBON RESISTOR
R208	1 KA16ST104J	CARBON RESISTOR	R632 1 KA16ST103J CARBON RESISTOR
3209	1 KA165T193J	CARBON RESISTOR	R633 1 KA16ST680J CARHON RESISTOR
R210	1 KA165T121J	CARBON RESISTOR	
R 211	1 KA165T243J	CARBON RESISTOR	RA301 1 RA-SP-06473J NETWORKS RESISTOR RA302 1 RA-SP-04104J NETWORKS RESISTOR
R212 R213	1 KA16ST472J 1 KA16ST103J	CARBON RESISTOR CARBON RESISTOR	RA302 1 RA-SP-04104J NETWORKS RESISTOR
R214	1 KA16ST102J	CARBON RESISTOR	SVR101 1 SVR-U6T3D104 SEMI-VARIABLE RESISTOR
R215	1 KA16ST104J	CARBON RESISTOR	SVR102 1 SVR-06T3B103 SEMI-VARIABLE RESISTOR
R301~304	4 KA16ST223J	CARBON RESISTOR	SVR141 1 SVR-06T3B104 SEMI-VARIABLE RESISTOR
R305	1 KA16ST561J	CARBON RESISTOR	SVR142 1 SVR-06T3D103 SEMI-VARIABLE RESISTOR
R 306 R 307	1 KA16ST101J 1 KA16ST104J	CARBON RESISTUR CARBON RESISTOR	SVR143 1 SVR-06T3B203 SEMI-VARIABLE RESISTOR
R308	1 KA165T223J	CARBON RESISTOR	COILS
R309	1 KA16ST104J	CARBON RESISTOR	L201 1 191015 OSC COIL
R310	1 KA25ST100J	CARBON RESISTOR	L301 1 180017 INDUCTOR
R311	1 KA16ST103J	CARBON RESISTOR	
R 31 2 R 31 3	1 KA16ST473J 1 KA16ST333J	CARBON RESISTOR CARBON RESISTOR	BC301,501~ 5 ZBF503D-00TA FERRITE BEADS INDUCTOR 504
R314	1 KA16ST223J	CARBON RESISTOR	
R315	1 KA16ST330J	CARBON RESISTOR	MISCELLANEOUS
R316	1 KA16ST101J	CARBON RESISTOR	W301 1 4685243812+J-J 3-LEAD,FLAT CABLE
R317	1 KA16ST103J	CARBON RESISTOR	W302 1 4685243820-J-J 3-LEAD, FLAT CABLE
R318 R319	1 KA16ST104J 1 KA16ST223J	CARBON RESISTOR	W502 1 007S240B10-B-B SOLDER-PLATED WIRE
R319 R320	1 KA16ST223J 1 KA16ST104J	CARBON RESISTOR CARBON RESISTOR	4E29 1 05H-1625-MP HEAT SINK
R321	1 KA16ST1045	CARBON RESISTOR	
R 32 2	1 KA16ST104J	CARBON RESISTOR	CN101 1 PI25C-08M MICRO PLUG
R323	1 KA165T223J	CARBON RESISTOR	CN102 1 EMC50660MT6 MICRO PLUG
R 32 4~326 R 327	3 KA16ST103J 1 KA16ST472J	CARBON RESISTOR CARBON RESISTOR	CN351 1 IL-S03PS2T2-EF CONNECTOR CN402 1 IL-S10PS2T2-EF CONNECTOR
R328	1 KA165T103J	CARBON RESISTOR	CN402 I IL-SIOPSZIZ-EF CONNECTOR
8329	1 KA16ST222J	CARBON RESISTOR	CN451 1 P125C-03M MICRO PLUG
R330~332	3 KA16ST103J	CARBON RESISTOR	CN601 1 B6P-VH CONNECTOR
R333	1 KA16ST222J	CARBON RESISTOR	CN602 1 B2P-VH CONNECTOR
R334	1 KA165T472J	CARBON RESISTOR	CN603 1 B2B-XH-A CONNECTOR
R335 R336	1 KA16ST750J 1 KA16ST101J	CARBON RESISTOR CARBON RESISTOR	CN651+652 2 P125C-05M MICRO PLUG CN701 1 53114-0910 PCB PLUG
R501,502	2 KA16ST821J	CARBON RESISTOR	CN701 1 53114-0910 PCB PLUG CN702 1 53114-0710 PCB PLUG
R503,504	2 KA16ST103J	CARBON RESISTOR	CN703 1 53114-0610 PCB PLUG
R505~512	8 KA16ST333J	CARBON RESISTOR	CN704 1 IL-S10PS2T2-EF CONNECTOR
R513~520	8 KA16ST223J	CARBON RESISTOR	CN705 1 IL-S05PS2T2-EF CONNECTOR
R521~528 R529~532	8 KA16ST473J 4 KA16ST153J	CARBON RESISTOR CARBON RESISTOR	CN751 1 EMCS0660MT68 MICRO PLUG CN752 1 EMCS0460MT6 MICRO PLUG
R533~536	4 KA165T332J	CARBON RESISTOR	CN752 1 EMCS0460MT6 MICRO PLUG CN901 1 EMCS0560MT60 MICRO PLUG
	4 KA16ST153J	CARBON RESISTOR	CN902 1 EMCS0360MT6B MICRO PLUG
R537~540	4 KAIOJIIJJJ	CARDON RESISTOR	

34

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REF. ND.	Q'TY	CARVER PART NO.	DESCRIPTION
MC301	1	HK-ILS035-K13	9 MICRO SOCKET ASS'Y
MC501	1		8 HICRO SOCKET ASS'Y
RJ301	1	YK811-0378	RCA JACK 1P
RJ501,502	2	YKC21-0297	RCA JACK 2P
TP001~004; 006;008~ 011;016		JPW02T34V	JUMPER WIRE
XL 30 1	1	HC49/N33.8688	M QUARTZ OSCILLATOR UNIT

OPERATION PCB ASS'Y

REF. NO.	Q'TY	CARVER PART NO	DESCRIPTION
<u>P.C.BOARD</u> 16E 1	1	OPE-K056	PRINTED CIRCUIT BOARD
SEMICONDUCTO D701	<u>RŞ</u> 1	GMA01	DIODE
<u>SWITCHES</u> \$701~705	5	EVQQSB05G	LIGHT-TOUCH_SWITCH
5706~715 5716~718	10 3	EVQQS705G EVQQSB05G	LIGHT-TOUCH SWITCH LIGHT-TOUCH SWITCH
MISCELLANEOU. W781	<u>s</u> 1	2HJ5264N06-J-J	4-LEAD,FLAT CABLE
FL 701	1	CP5459GR	FLUORESCENCE LAMP
MC701	1	52170-0910	PCB SOCKET
MC702	1	52170-0710	PCB SDCKET
MC 70 3		52170-0610	PCB SOCKET
HC 704 MC 705	1 1	MK-ILS105-K126 MK-ILS055-K125	MICRD SOCKET ASS'Y MICRD SOCKET ASS'Y

9401,402	2	25C2878-A+B	TRANSISTOR
1C401	1	H52184L	IC
CAPACITORS			
C401,402	2	HE70SJYF103Z	CERAMIC CAPACITOR
C 403,404	2	NS-10TW470M	ELECTROLYTIC CAPACITOR
C405,406	2	NP-25TW100M	ELECTROLYTIC CAPACITOR
C407,408	2		ELECTROLYTIC CAPACITOR
C409,410	2	HE50SJYB102K	CERAMIC CAPACITOR
C411~413	3	XC75SJYF104Z	IBL. CERANIC CAPACITOR
C415,416	2	HE705JSL221J	
RESISTORS			
R401,402	2	KA16ST472J	CARBON RESISTOR
R 403,404	2		CARBON RESISTOR
R405,406	2	KA16ST103J	CARBON RESISTOR
R407+408	2	KA165T102J	CARBON RESISTOR
R409,410	2 2	KA165T472J	CARBON RESISTOR
R411,412	2	KA16ST103J	CARBON RESISTOR
R413,414	2	KA165T104J	CARBON RESISTOR
R417	1		CARBON RESISTOR
R418	1	KA165T201J	CARBON RESISTOR
VR401	1	VBV16~203A2NF5	ROTARY POTENTIOMETER
COILS		· · ·	
BC401,402	2	Z9F503D-00TA	FERRITE BEADS INDUCTOR
MISCELLANEOUS			
2W18	4	U9-#18B025	UL TYPE TUBE
CN401	1	IL-S02P52L2-EF	CONNECTOR
MC 40 2	1	MK-11 5105-1125	NICRO SUCKET ASS'Y
MC 40 3	-		MICRO SOCKET ASS'Y
		Ne cocoli -kijo	MICKO SUCKET ASS'T
RJ401	1	HLJ4318-1-3040	H.P. JACK

DESCRIPTION

REF. ND. Q'TY CARVER PART NO.

REMOTE CONTROL PCB ASS'Y

REF. NO.	Q'TY	CARVER PART	NO. DESCRIPTION
P.C. BOARD 16E24	1	RC-K056	PRINTED CIRCUIT BOARD
SEMICONDUCTO	1 1	LN250RP	LED
MISCELLANEOU RD781	1	GP1U50X	REMOTE CONTROL ASS'Y

VACUUM TUBE PCB ASS'Y

REF. NO.	Q'TY	CARVER PART NO	DESCRIPTION
P .C. BOARD			
17E 1	1	VT-K057	PRINTED CIRCUIT BOARD
CAPACITORS			
C451,452	2	C3NE2A225K	METALIZED FILM CAPACITOR
C 45 3	1		ELECTROLYTIC CAPACITOR!
RESISTORS			
R451,452	2	KA50XT103J	CARBON RESISTOR
R 453,454	2	KA50XT123J	CARBON RESISTOR
R455,456	2	KA50XT473J	CARBON RESISTOR
R457,458	2	KA50XT561J	CARBON RESISTOR
R459,460	2 2	KA50XT472J	CARBON RESISTOR
R461,462	2	KA50XT205J	CARBON RESISTOR
R 463	1	SA-3WT1R8J	METAL OXIDE RESISTOR
MISCELLANEOUS			
CN501	1	IL-S07PS2T2-EF	CONNECTOR
MC 451	1	KZ-25C03F-K137	HICRO SOCKET ASS'Y
17E 4	2	P-465	TUBE SOCKET

HEADPHONE PCB ASS'Y

REF. NO. G	'TY	CARVER PART	NO. DESCRIPTION
<u>P.C.BOARD</u> 18E 1	1	HP-K057	PRINTED CIRCUIT BOARD
SEMICONDUCTORS D401	1	ZD40-051	ZENER DIODE, 2/5N, 5.1V

POWER SUPPLY PCB ASS'Y				
REF. ND.	Q'TY	CARVER PART NO	DESCRIPTION	
P.C.BOARD 19E 1	1	PS-K057	PRINTED CIRCUIT BOARD	
SEMICONDUCTOR	<u>RS</u> 1	UPC2412HF	IC	
CAPACITORS C651,652	2	NS-25TW101M	ELECTROLYTIC CAPACITOR	
RESISTORS R651	1	KA50XT472J	CARBON RESISTOR	
COILS L651,652	2	180016	СНОКЕ	
SWITCHES S651	1	ESB-4161005	PUSH SWITCH	
MISCELLANEDUS CN 352	1	P125C-03M	MICRO PLUG	
EL651,652 EL653~655	2 3	59854795 S-001P	GND LUG GND LUG	
MC651 MC652	1. 1	HZ-25C05F-K132 MZ-25C05F-K133	MICRO SOCKET ASS'Y MICRO SOCKET ASS'Y	
19E 9	1	0SH-1625-MP	HEAT SINK	

SWITCH PCB ASS'Y

REF. NO.	Q'TY	CARVER PART NO	DESCRIPTION
P.C. BOARD 29E 1	1	SW-K057	PRINTED CIRCUIT BOARD
<u>SEMICONDUCTO</u> 9751~756	<u>RS</u> 6	GMA01	DIODE
<u>SWITCHES</u> S751~771	21	EVQQSB05G	LIGHT-TOUCH SWITCH
MISCELLANEOU HC751 HC752	<u>s</u> 1 1	MN-06HUM-K128 MN-04HUM-K129	MICRO SOCKET ASS'Y Micro Socket Ass'y

35

REF. NO.	Q'TY	CARVER PART ND.	DESCRIPTION
P.C.80ARD 20E15	1	ST-K057	PRINTED CIRCUIT BOARD
SEMICONDUCTOR	25		
0351	- 1	1N4002	DIODE
D 35 2	1	ZD40-051	ZENER DIODE,2/5W, 5.1V
RESISTORS			
R351	1	SA-3WT4R7J	METAL OXIDE RESISTOR
R 352	1	KA16ST103J	CARBON RESISTOR
R 354	1	KA16ST471J	CARBON RESISTOR
R355	1	KA16ST561J	CARBON RESISTOR
SWITCHES			
\$351	1	ESB661	PUSH SWITCH
MISCELLANEDUS	5		
W351	1	2HJS263N08-J-J	3-LEAD,FLAT CABLE
MC 351	1	HK-1L5035-K130	MICRO SOCKET ASS'Y
MC 352	1	MZ-25C03F-K131	

OPTICAL PCB ASS'Y

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD 21E 1	1	0PT-K057	PRINTED CIRCUIT BOARD
CAPACITORS C801	1.	XC75SJYF104Z	IBL. CERAMIC CAPACITOR
MISCELLANEOUS CN301	1	1L-S03PS2L2-EF	CONNECTOR
TX801	1	TOTX178	OPTICAL TX MODULE

LED PCB ASS'Y

REF. NO.	Q'TY	CARVER PART NO	• DESCRIPTION
P • C • BOARD 21E10	1	LED-K057	PRINTED CIRCUIT BOARD
SEMI CONDUCTOR L0351	<u>RS</u> 1	LN250RP	LED

VOLUME LED PCB ASS'Y

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD 21E16	1	VLED-K057	PRINTED CIRCUIT BOARD
SEMICONDUCTOR	1	SPR-54MVWF	LED
MISCELLANEOUS MC401	1	MK-ILS025-K134	MICRO SOCKET ASS'Y

EXPLODED VIEW

REF. ND.	9'TY	CARVER PART NO	DESCRIPTION
COILS			
22E 9	1	NPT-K0204	POWER TRANSFORMER
MISCELLANEOUS	5		<i>2</i>
W401	- 1	R-030-10J	CABLE ASS'Y
W601	1	R-030-05J	CABLE ASS'Y
W904,905	2	015Y220B14NDHD	
	-		
1 1 1	1	N21869-2	FRONT PANEL
1 1 2	2	BK4006A-BK1	HANDLE
1H 3	4	N45846	HANDLE SPACER
1115	1	N10602-1	FRONT BASE
1M 6	ī	N45892-1	SUB PANEL+L
18 7	1	N45913-1	SUB PANEL,R
1H 8	ī	N45890-2	DISPLAY GLASS
18 9	1	N45646A	PUSH BUTTON
1M10	1	N43866-T-BK1	PUSH BUTTON
1M11	3	N45686	TACT BUTTON
1812	1	N45603	BUTTON CAP
1H13	1	N45668	TACT BUTTON
1M14	1	N45668-1	TACT BUTTON
1M15	1	N45668-4	TACT BUTTON
1M16	2	BK4162A-13	PUSH BUTTON, 6
1M17	1	BK4162A-12	PUSH BUTTON, 5
1M18	ī	BK4162A-11	PUSH BUTTON, 4

			······································
REF. NO.	Q•TY	CARVER PART NO.	DESCRIPTION
1819	1	N31161-2	TRAY PANEL
1 M 2 0	1	N45932	CUSHIDN
1M21	1	N10601	BOTTOM CHASSIS
1M22	4	TL-011	FOOT
1M23	1	N21875-1	REAR PANEL
1M24	1	N21878-1	CABINET
1M25	1	N31110-T-BK1	KNOB 33
1M26	1	N45522	LED CHIP
1M27	1	N45915	FITTINGS (TUBE)
1M28	1	N45927	CUSHION
1829	1	KGLS-22S	SPACER
1830	1	LWS-35	LOCKING WIRE SADDLE
2M 1	1	N45909	FITTING PLATE
2M 2	1	N45908	FITTING PLATE
2M 3	2	N45508	EARTH PLATE
2M 4	1	N422818	SHAFT(SW)
2M 5	1	BK4115	SHAFT TAPE
2M 6	3	N45916	CUSHION
2M 7	1	MP5-14-0	SPACER
2 M 8	4	KGL 5-45	SPACER
2M 9	1	KGPS-3S	SPACER
2M1 0	1	N44813	FITTINGS (P.C.S.)
2M11	1	N21876-2	INNER CARTON
2M1 2	2	N21877	PACKING PAD
2M1 3	1	N41318-1	POLYETHYLENE BAG
2M14	1	N40487	POLYETHYLENE BAG (ACCESSORIES)
2H15	1	N45561	PACKING PAD (CABI)
2M18	1	N45917	LABEL,LASER
2H19	1	N31136	WARRANTY R
2H20	1	N31137	LIMITED WARRANTY
2821	2	N42235	SHEET, SERIAL NUMBER
2822	1	04-1088	INSTRUCTION MANUAL
2H24+H25	3	N45335	LABEL, SERIAL NO.
2H27	1	N45928	SHIELD CASE
2828	1	N41622A	LUG (TUNING)
2M29+H30	3	2AE-05	LUG
3M 1~M 6	13	TB8+26X08-Y	TAP SCREW 8, BIND HEAD, Y
3M 8	3	TBC+30X12-B	TAP SCREW BY BIND HEADY F
3M 9~M14	18	T8B+30X08-B	TAP SCREW By BIND HEAD, B
3815~821	16	TSB+30X06-Y	TAP SCREW S, BIND HEAD, Y
3H23	4	SSPS2+40X10-B	SCREW-SP ASSY PAN HEADYB
3124	ź	TSB+40X06-Y	TAP SCREW Sy BIND HEADy Y
3825	4	ZC+STR30X14-2Y	TAP SCREWS WASHER FACED, Y
3N26+M27	ź	TSB+30X08-B	TAP SCREW S> BIND HEAD B
3M29	2	2TWX30-Y	TOOTHED LOCK WACHER
3M30	1	2AWX1430-08-Y	PLAIN WASHER Y
VT451,452	2	8608	VACUUM TUBE
22E 1	1	ACC-041E5-4EE1	LINE CORD
22E 3	ī	SR-4N-4	CORD STOPPER
22E12	1	RH-49	REMOTE CONTROL TRANSHITTER
2 2E13	1	UH-3-2	BATTERY
22E15	1	TCD-201-ASSY1	CD HECHANISH ASSY
22222	1	PC-063	RCA PIN CORD ASS'Y

OTHER PARTS

REF. NO.	9'TY	CARVER PART NO.	DESCRIPTION
MISCELLANEOUS M901~903	5 3	MDN-4RA3EZAS	DC MOTOR, ELECTRONIC GOVERNOR
₩901	1		SOLDER-PLATED WIRE
₩902,903	2		Solder-Plated Wire
MC101	1	MZ-PHR08-K122	MICRO SOCKET ASS'Y
MC102	1	MZ-PHR06-K105	NICRO SOCKET ASS'Y
NC901	1	MN-05HUM-K123	MICRO SOCKET ASS'Y
MC902	1	NN-03HUM-K124	MICRO SOCKET ASS'Y
22E 4, E 5	8	BK-1	CORD CLAMP
22E 6	2	N0.5167	CURD CLAMP
22E16	1	TCD-201	CD MECHANISM
22E18	1	KP-1	PICK UP HEAD

P.C.BDARD ASS'Y

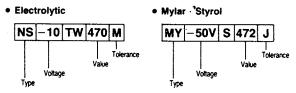
REF. NO.	Q'TY	CARVER PART NO	D. DESCRIPTION
1P 1	1	MAIN-K056	MAIN PCB ASSTY
16P 1	1	0PE-K056	OPERATION PCB ASS'Y
16P24	1	RC-K056	REMOTE CONTROL PCB ASS'Y
17P 1	1	VT-K057	VACUUM TUBE PCB ASS'Y
18P 1	1	HP-K057	HEADPHONE PCB ASS'Y
19P 1	1	PS-K057	POWER SUPPLY PCB ASS'Y
20P 1	1	5N+K057	SWITCH PCB ASS'Y
20 P 1 5	1	ST-K057	STAND-BY PCB ASS'Y
21P 1	1	0PT-K057	OPTICAL PCB ASS'Y
21P10	1	LED-K057	LED PCB ASS'Y
21P16	1	VLED-K057	VOLUME LED PCB ASS'Y

36

TCB-201-ASSYIG MARSHall is provided free, courtesy of CARVERaudio.com

CD-201-A55Y	TCD HEC	HXNISH	
REF. NO.	Q*TY	CARVER PART	NO. DESCRIPTION
001	1	A81A295	LOADING PLATE OUTSERT
002	1	A81G973	TRAY 201
003	1	A81G974	SWITCH LEVER
004	1	A81P462	CRAMPER ARM
005	1	A81G975	CRAHPER
006	1	A81P463	CRAMPER PLATE
007	1	A81G976	DISK CATCH
008	1	AB1G977	LIFTER CAM
009	1	A81G978	LATCH
010	1	A81G235	MOTOR PULLEY
011	. 1	A81G122	PULLY GEAR
012	1	A81G123	GEAR 3
013	1	A81G581	RACK 118
014	1	A815059	CRAMPER SPRING
015	1	A815060	LATCH SPRING
016	1	A82G057	CRAMPER MAGNET
017	3	MON-4RA3EZAS	
018	1	S01W051	LEAF SWITCH LSC-1223-38
019	2	H205004	SCREW M2X4 SEMS
020	3	A81G980	FLOAT CUSHION
021	2	A815061	FLOAT SPRING 201A
022	1	A815064	FLOAT SPRING 2018
023	3	A81H085	ATTACHMENT SCREW
024	1	A81G131	LOADING BELT
025	1	A81A294	UNIT PLATE 201 OUTSERT
026	1	A81A293	TURNTABLE ASSEMBLY
027	4	M20B003	SCREW M2X3 BIND
028	1	A81G970	WORN GEAR
029	1	A81G971	SLIDE GEAR
030	1	KP-1	PICK UP HEAD
031	1	A81G972	RACK 201
032	2	M265006	H2.6X6 SCREW
033	2	A81H113	SLIDE SHAFT
034	1	S01W125	LEAF SWITCH LSA1115R6
040	1	A81A308	LOADING MOTOR ASSEMBLY
050	1	A81A309	FEED MOTOR ASSEMBLY

Capacitors Description



• Electrolytic

Туре		Voltage		V	alue	Tolerance		
LL:	Low Leak	-10:	10V	R47;	0.47µF	K:	±10%	
NP:	Non-Pole	-50:	50V	4R7:	4.7μF	M:	±20%	
NS:	Standard	6R3:	6.3V	470:	47μF			
				471:	470µF			
				472:	4700μF			

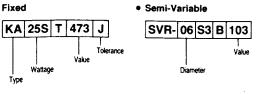
Mylar · Styrol

Туре		Voltage		١	/alue	Tolerance		
MY:	Mylar	-25V:	25V	4R7:	4.7pF	G:	±2%	
ST:	Styrol	125V: 1	25V	470:	47pF	J:	±5%	
		-63T:	63V	471:	470pF	K:	±10%	
				472:	4700pF	M:	±20%	
				473:	0.047µF			
				474:	0.47μF			
			(1000pF	=0.001µÉ)				

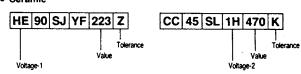
Resistors Description



Туре



• Ceramic



CK 45 B 1H 103 K Tolerance Value Voltage-2

Voltage-1		Voltage-2		\ \	/alue	Tolerance		
HC:	25V	1E:	25V	4R7: 4.7pF		C:	±0.25pF	
HE:	50V	1H:	50V	470:	47pF	D:	±0.5pF	
H:	100V	2H:	500V	471:	470pF	F:	±1pF	
HK:	250V			472:	4700pF	J:	±5%	
HM:	500V			473:	0.047µF	K:	±10%	
				474:	0.47µF	M:	±20%	
			(1000pF	=0.001µF)	Z:	+80~-20%		

Туре		Wattage		Value		Tolerance		Diameter	
CE:	Cement Case	-2W:	2W	R47:	0.47Ω	M:	±20%	08:	8¢
FR:	Flame Proof	10W:	10W	4R7:	4.7Ω	K:	±10%	10:	10φ
KA:	Carbon	16S:	1/6W	470:	47Ω	J:	±5%	06:	6φ
MF:	Metal Film	20S:	1/5W	471:	470Ω	G:	±2%		
RF:	Fusible	25S:	1/4W	472:	4.7kΩ	F:	±1%		
SA:	Metal Oxide	50S:	1/2W	473:	47kΩ	D:	±0.5%		
		50X:	1/2W	474:	470kΩ				
	5 e s	S3W:	3W	475:	4.7M Ω				

37

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