

AMC

SERVICE MANUAL

CD8

COMPACT DISC PLAYER

REV.: B

CAUTION

WARNING! INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

VORSICHT! UNSICHTBARE LASERSTRAHLEN TRITTS AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSSVERRIGELUNG ÜBERBRÜCKT IST. NICHT DEM STRAHL AUSSETZEN.

ADVARSEL - USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

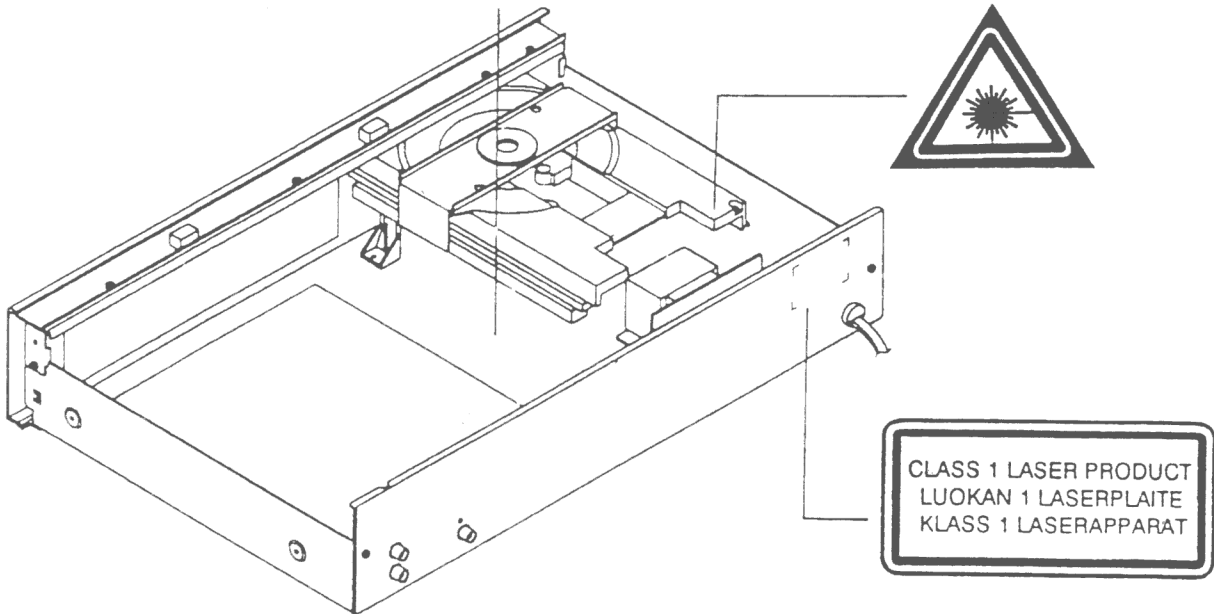
ADVARSEL - USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.

VARNING - OSYNLIG LASERSTRÅLING NÅR DENNA DEL ÅR ÖPPNAD OCH SPÄRRAR ÅR URKOPPLADE. STRÅLEN ÅR FARLIG.

VARO! - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NAKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

SERVICE SAFETY PRECAUTIONS (UL)

1. Use exact replacement parts for critical locations, marked "⚠".
2. Return lead dress to original position, and re install protective covers.
3. Before returning to customer, test for shock hazard; use either method A or B:
 - A. Leakage test, "cold":
 1. Unplug AC cord; turn power switch ON.
 2. Connect one lead of High Voltage Insulation Tester to both prongs of AC plug.
 3. Touch other lead to all exposed metal parts.
 4. Impedance measurement must be 0.3 - 5.0 Megohms.
 - B. Leakage test, "live":
 1. Plug unit directly into AC outlet; do not use isolation transformer.
 2. Connect one lead of Leakage Current Tester to earth ground.
 3. Touch other lead to all exposed metal parts.
 4. Leakage measurement must be less than 0.5 milliamps.



CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE OF T800mA/250V FUSES.

ATTENTION: POUR MAINTENIR PROTECTION CONTRE RISQUE D'INCENDIE, UTILISER LES FUSIBLES DE RECHANGE DE MEME TYPE DE T800mA/250V.

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.

LE PRESENT APPAREIL NUMVERIQUE N'EMET PAS DE BRUITS RADIOELECTRIQUES DEPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMERIQUE DE LA CLASSE B PRESCRITES DANS LE REGLEMENT SUR LE BROUILLAGE RADIO ELECTRIQUE EDICTE PAR LE MINISTERE DES COMMUNICATIONS DU CANADA.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

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SPECIFICATIONS

AUDIO OUTPUT (at 1KHz, unless otherwise stated):

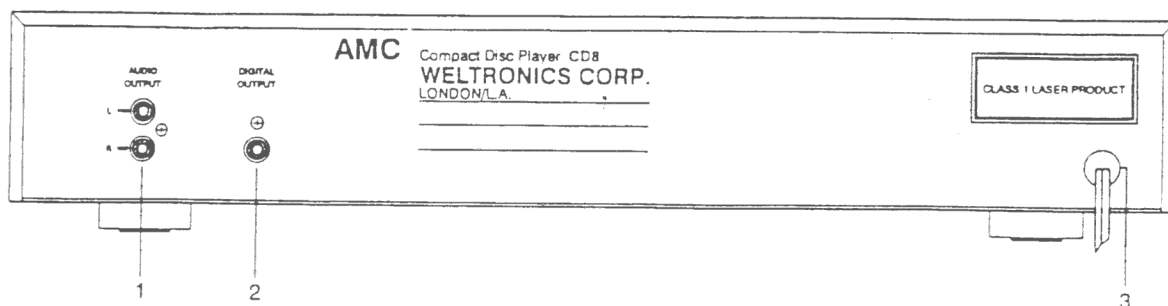
Disc capacity.....	Single disc, 120 or 80 mm
Programming capability.....	21 Tracks
Digital to analogue conversion.....	MASH, 1-bit converter
Digital filter.....	4 Times over-sampled, linear phase with 18-bit coefficients
Analogue filter.....	5-Pole active
Frequency response 5Hz-20KHz.....	< +/-0.5 dB
De-Emphasis error.....	< +/-0.3 dB
Linearity.....	+/-0.5 dB; 0 to -90 dB
Channel separation 1KHz.....	>100 dB
10KHz.....	>90 dB
S/N ratio, de-emphasis off.....	107 dB
de-emphasis on.....	110 dB
(A-weighted, measured with all zeros test disc)	
Dynamic range.....	>98 dB
THD (at 0dB, 1KHz).....	<0.002 %
Intermodulation distortion (19 & 20KHz).....	<-100 dB
Output impedance.....	56 ohm
Output level at 0dB.....	2.2 Vrms
Digital error correction.....	CIRC with double error correction in C1 and C2
Wow and flutter.....	Unmeasurable (Quartz crystal accuracy)
Remote control unit.....	Full-functional with numeric keypad to allow direct track access

S/PDIF DIGITAL OUTPUT:

Output level.....	0.5 Vpp
Load impedance.....	75 ohm
Optical O/P (for noise free fibre optic link)	
Output power.....	20 dBm
Peak emission wave length.....	660 nm
Dimensions (W x H x D)..... 430 x 82 x 300 mm	
Net weight.....	4.5 Kgs
Shipping weight (4 pieces).....	23 Kgs
Power consumption.....	30 W

REAR PANEL CONNECTIONS/FRONT PANEL CONTROLS

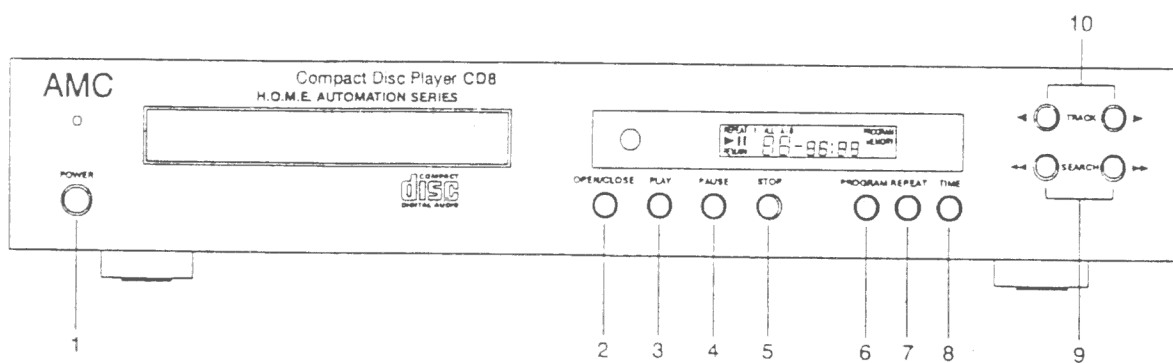
REAR PANEL



1. AUDIO OUTPUT
2. DIGITAL OUTPUT

3. AC LINE CORD

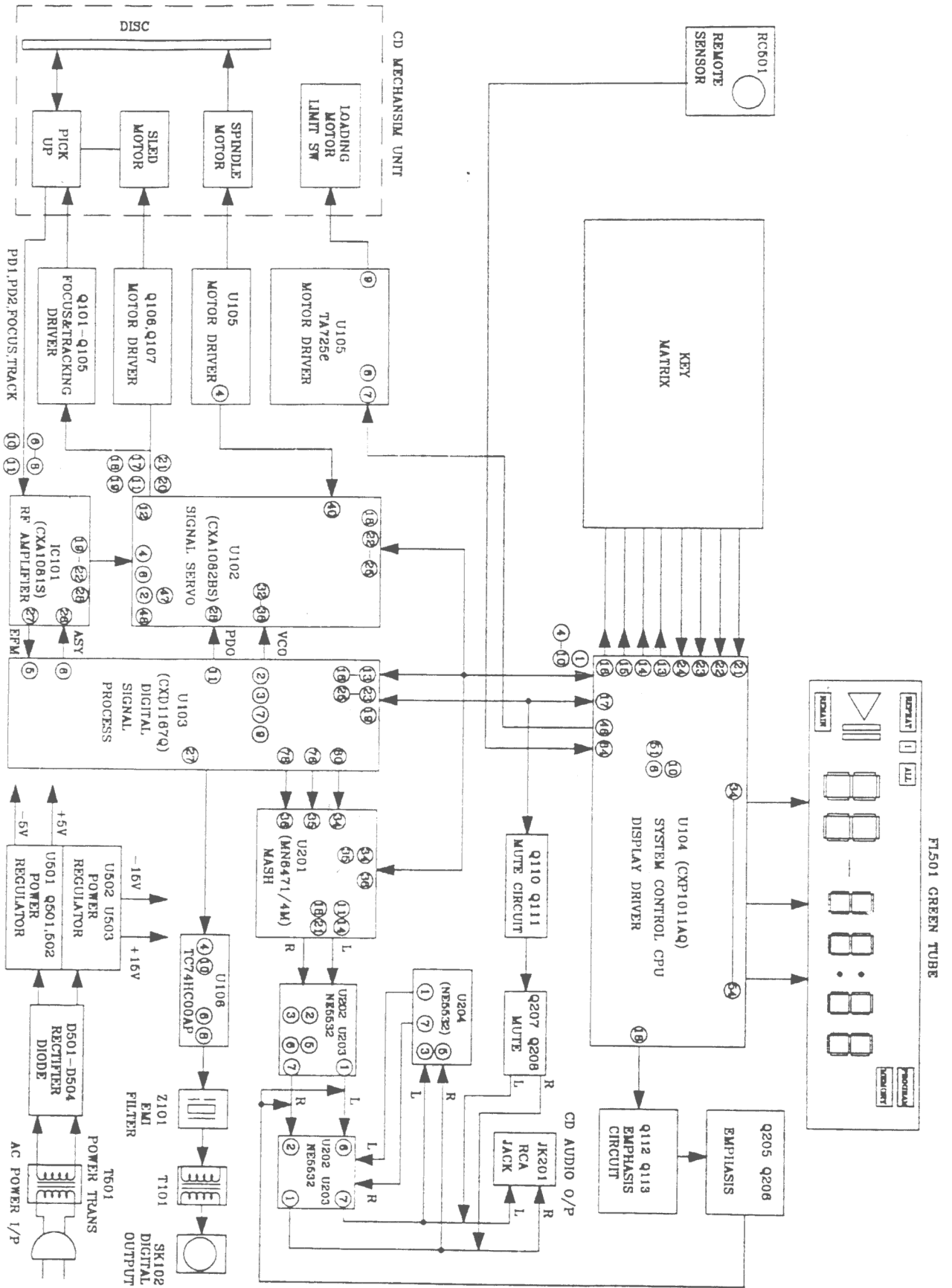
FRONT PANEL



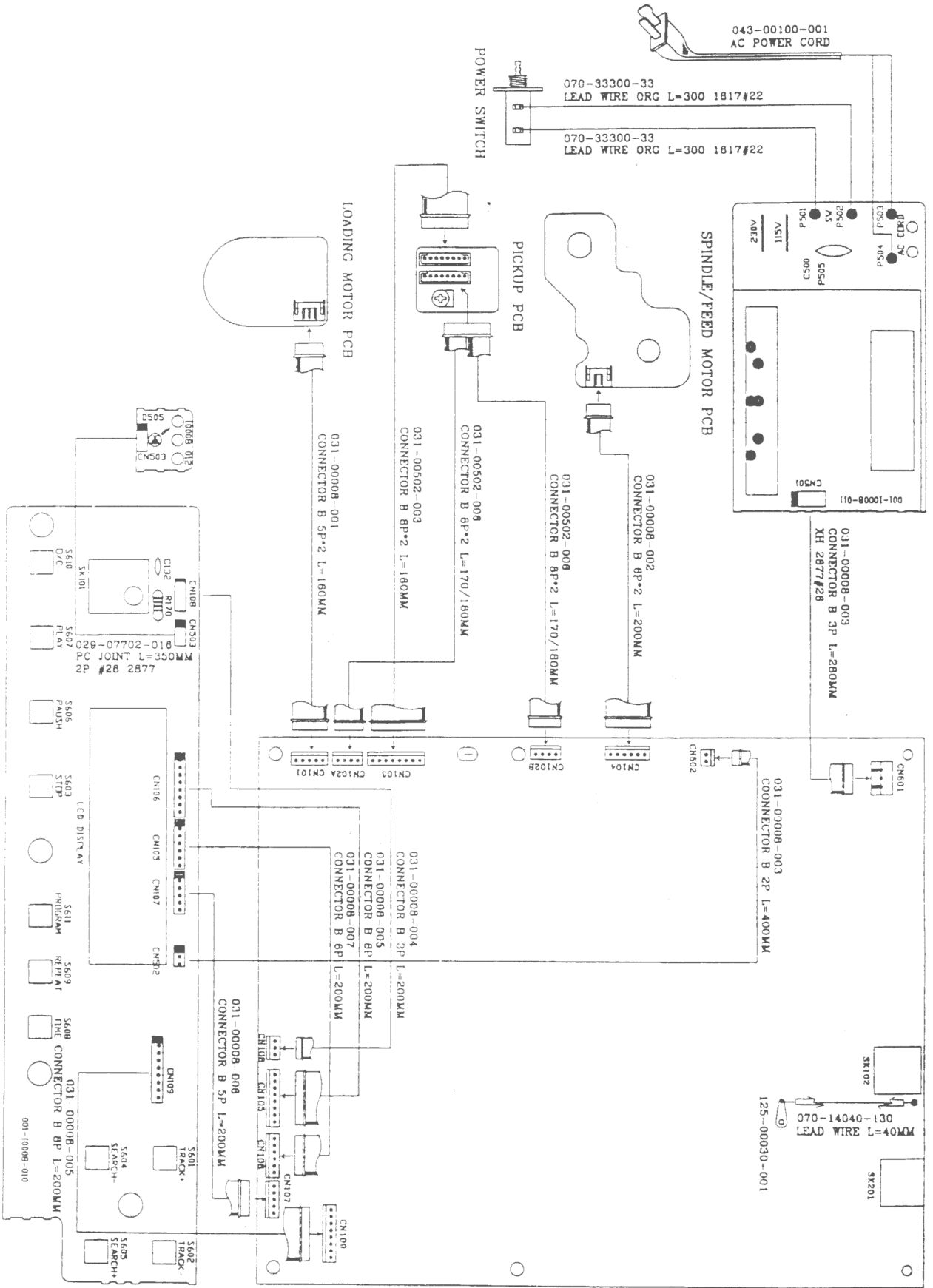
1. POWER SWITCH
2. OPEN/CLOSE
3. PLAY
4. PAUSE
5. STOP

6. PROGRAM
7. REPEAT
8. TIME
9. SEARCH
10. TRACK

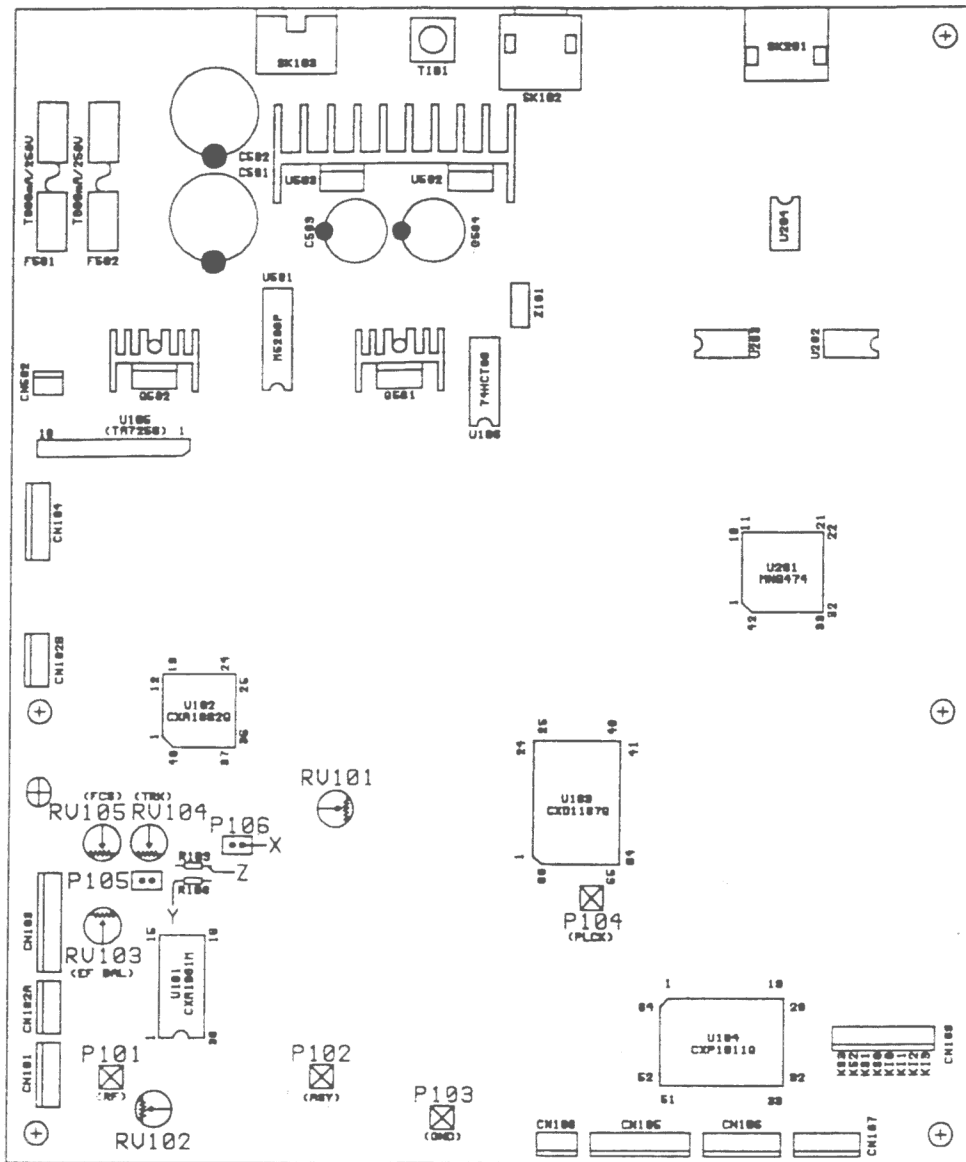
BLOCK DIAGRAM



WIRING DIAGRAM



ADJUSTMENT POINTS DIAGRAM



ALIGNMENT PROCEDURE

REQUIRED INSTRUMENTS:

OSCILLOSCOPE (BANDWIDTH GREATER THAN 40 MHz) FREQUENCY COUNTER, TEST DISC (SONY YEDS-7).

NOTE:

Exact adjustment can only be performed with special factory jigs ect.

However the following alignment procedure should produce a well aligned player assuming no fault conditions are present.

It is suggested that the position of the preset resistors setting is noted or marked before any adjustment is attempted so that these settings can be returned to, should no improvement be noted after adjustment.

Step A: PLL Adjustment

- (1) Turn power ON and press the STOP key.
- (2) Short circuit P102 (ASY) to P103 (GND).
- (3) Connect the frequency counter at P104 (PLCK) and P103 (GND).
- (4) Adjust RV101 for a reading of 4.2318 \pm 0.01MHz.
- (5) After adjustment is completed remove the short circuit between P102 and P103.

Step B: RF Adjustment

- (1) Load the test disc and set the unit into PLAY mode.
- (2) Connect the scope to P101 (RF) and P103 (GND).
Scope settings : Coupling : AC.
Vertical sensitivity : 0.2V/div.
Horizontal time base : 0.5 μ S/div.
- (3) Adjust RV102 so that the 3T component of the waveform is maximum and the eye pattern is at its best shape (see Fig. 2).

Step C: EF Balance adjustment

- (1) Turn the power OFF, remove the mini jumper P106.
- (2) Connect the scope to 'X' point of P106 and P103 (GND).
Scope settings : Coupling : DC.
Vertical sensitivity : 0.5V/div.
Horizontal time base : 2mS/div.
- (3) Turn the Power ON. Load the test disc and put the unit into the PLAY mode.
- (4) Adjust RV103 so that the tracking error waveform is symmetrical. (See Fig. 3).
- (5) Turn the power OFF. Return the mini jumper to P106.

NOTE: BEFORE CONTINUING REFER TO PAGE 10 FOR GUIDANCE ON FOCUS AND TRACKING GAIN ADJUSTMENT.

Step D: Focus gain adjustment

- (1) Connect the scope to point 'Y' (Junction of P105 and R108) and P103 (GND). Turn the power ON and put the unit into PLAY mode.
- (2) Scope settings : Coupling : DC.
Vertical sensitivity : 0.1V/div.
Horizontal time base : 2mS/div.
- (3) Adjust RV105 so that the DC level is between 120 and 200mV.
- (4) Turn the power OFF.

Step E: Tracking gain adjustment

- (1) Connect the scope to point 'Z' (Junction of P106 and R109) and P103 (GND). Turn the power ON and put the unit into PLAY mode.
- (2) Scope settings : Coupling : AC.
Vertical sensitivity : 0.2V/div.
Horizontal time base : 2mS/div.
- (3) Adjust RV104 so that the waveform is as shown in Fig 4(a).

FIG.2(a)

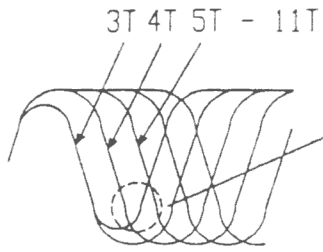


FIG.2(b) Poor eye pattern

FIG.2(c) Good eye pattern

FIG.3

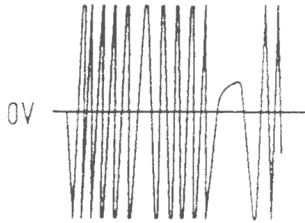


FIG.4(a) Good waveform

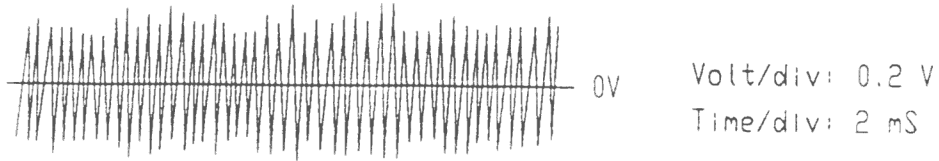


FIG.4(b) High tracking gain
(higher frequency than for low gain)

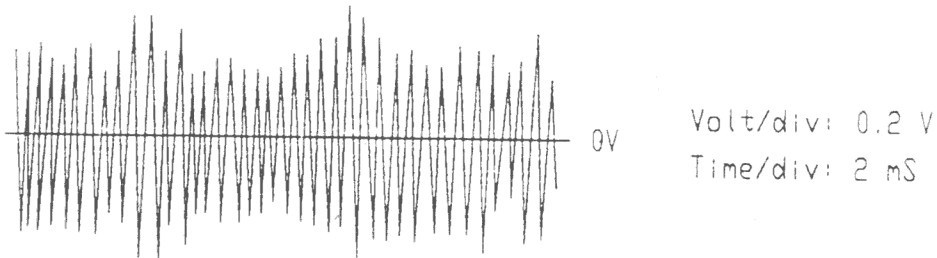
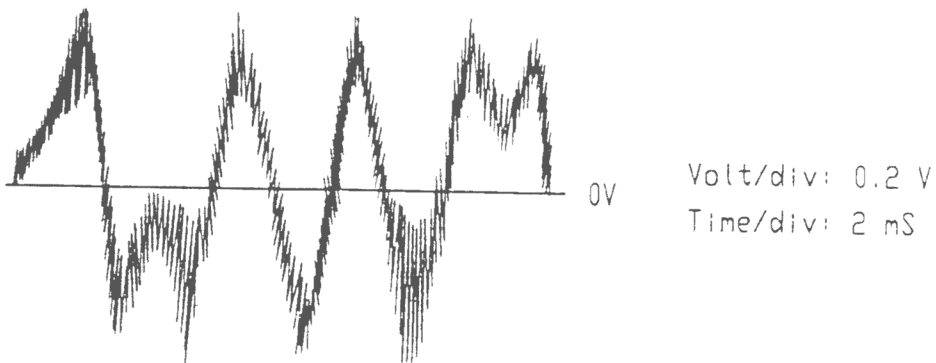


FIG.4(c) Low tracking gain



FOCUS/TRACKING GAIN ADJUSTMENT

NOTE: It is recommended that these adjustment are not carried out unless absolutely necessary.

A frequency response analyzer is necessary to carry out this adjustment precisely. However this adjustment has a wide tolerance so that even if the adjustment has not been performed exactly the player will still work with an acceptable level of performance.

The focus and tracking gain determine not only the vertical and horizontal tracking characteristics, but also the amount of mechanical noise from the optical blocks two axis device and its sensitivity to mechanical shock.

Correct adjustment will be at the point where all the above criteria are satisfied.

* When the gain is too high, the mechanical noise is high.

* When the gain is too low, the susceptibility to mechanical shock and skipping will be poor.

SYMPTOM	GAIN	
	focus	tracking
Time taken from stop to play is excessive, or track skip time is excessive. (normally approx. 2 sec)	low or high	low or high
Music does not start when play is pressed or track selection is made but disc rotates.		low
Drawer opens shortly after pressing PLAY.	low or high	
Intermittent sound during play or counter stops.		low
High mechanical noise from optical block during play.	high	high

IMPORTANT NOTES

INSTRUCTION FOR HANDLING OPTICAL SYSTEM BLOCK PICK-UP

Electrostatic breakdown of the laser diode in the optical system block may occur due to a potential difference caused by electrostatic charge accumulated on clothing, human body, etc. A ground must be provided as follows to prevent any electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band (1M ohm) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Work Bench

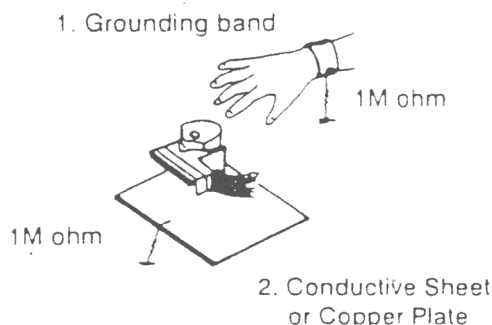
Be sure to place a conductive sheet (1M ohm) or copper plate with proper grounding on the work bench or other surface on which the pick-up is to be placed.

3. Because the static electricity charge on the clothing does not discharge through the body grounding band, do not let clothing contact the pick-up unit.

INCORRECT



CORRECT



NOTE: Laser diodes are so susceptible to damage from static electricity that even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly.

PRECAUTIONS FOR CHECKING BEAM EMISSION OF LASER DIODE

The laser beam of this unit is focused on the reflecting surface of the objective lens in the optical system block. Therefore, keep your eyes at least 12 inches (30 cm) away from the objective lens when the laser diode is ON.

(Operation Check Method for Laser Diode and Focus Search Function.)

When the POWER switch is turned ON after the chucking arm is removed, observe the objective lens and confirm that the following operations are performed properly.

(The optical system block should be at the lead-in area position when it is checked at this time.)

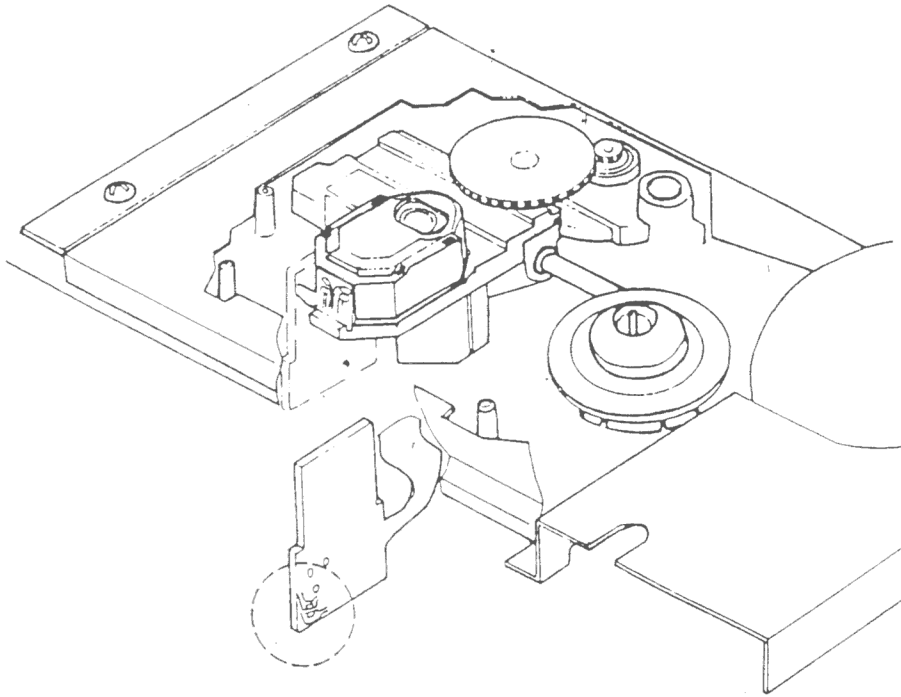
- (1) The laser should be at the innermost position after the chucking arm is removed.
- (2) The diffused light of the laser beam can be seen when the POWER switch is turned ON.
- (3) Vertical (up and down) movement of the objective lens (2 or 3 times) will take place.

PRECAUTIONS WHEN CHANGING LASER PICK-UP

When removing pick-up assembly, short circuit the PCB pattern as shown in the drawing in order to protect the pick up before removal.

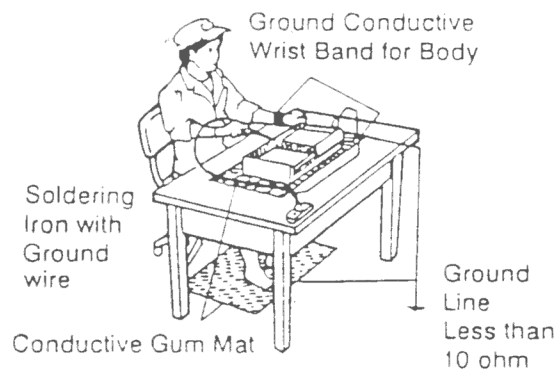
NOTE: Replacement pickup assemblies are supplied with the PCB pattern already protected.

DO NOT REMOVE THE SHORT CIRCUITS UNTIL YOU HAVE FINISHED FITTING THE PICK-UP.



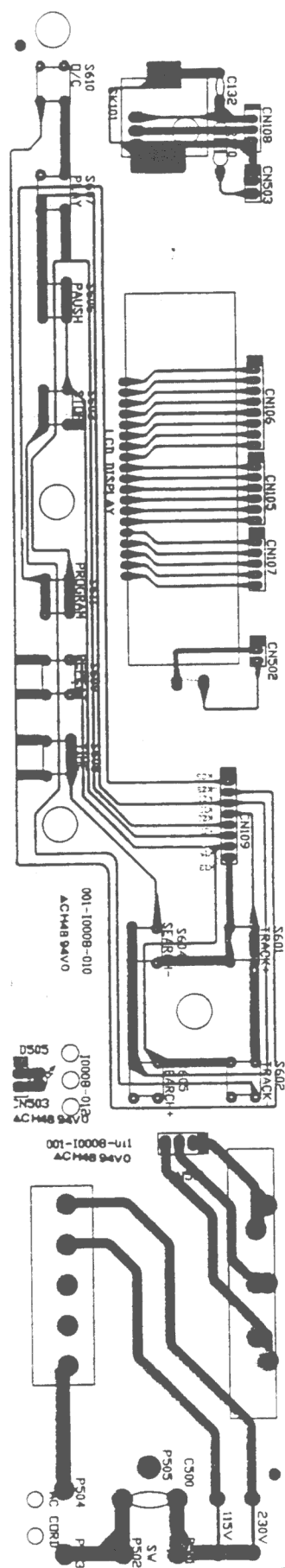
Caution:

Laser diodes are extremely susceptible to damage from static electricity. Even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly. When replacing the pick-up, use a conductive mat, a grounded soldering iron, and so on, to protect the laser diode from static damage.

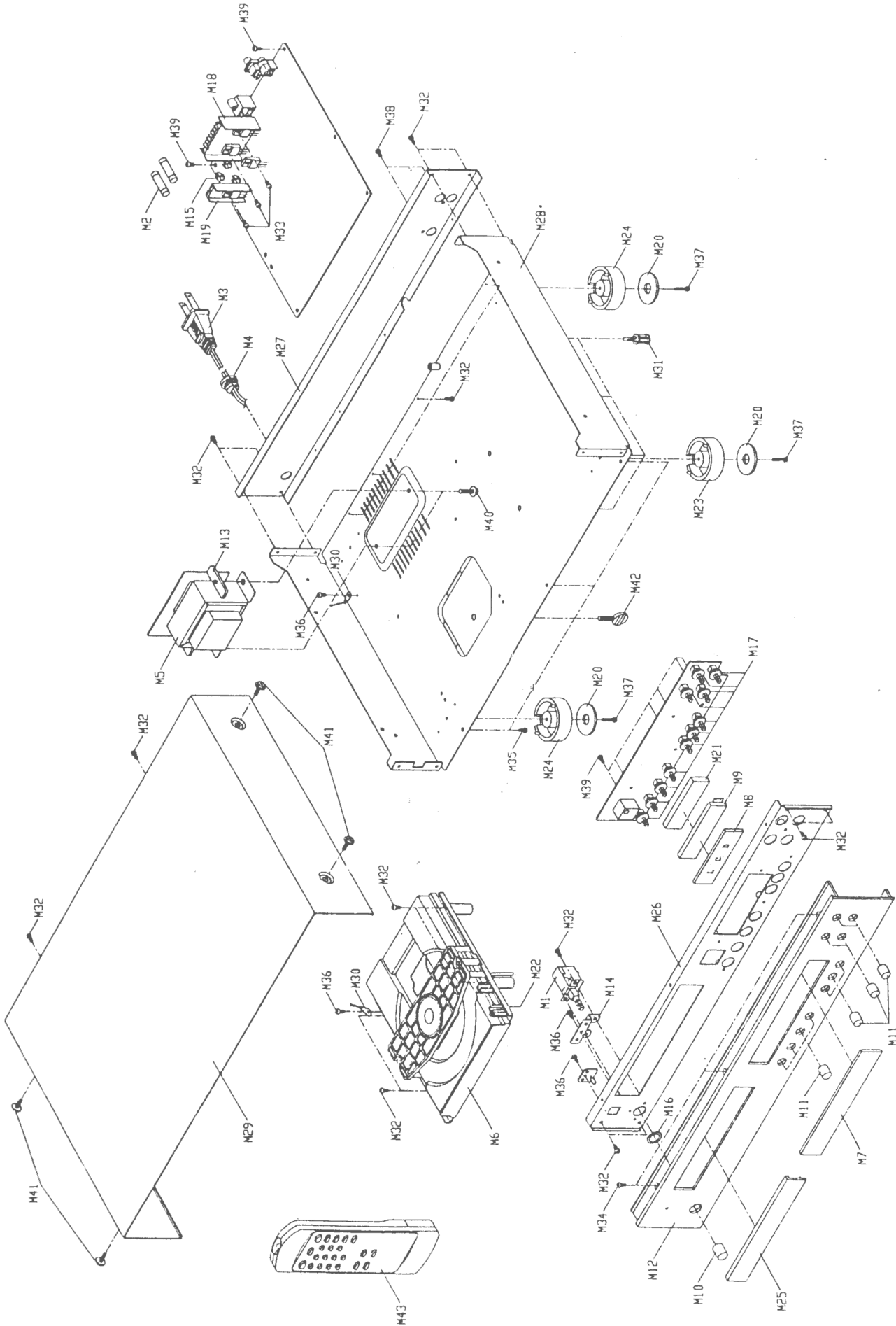


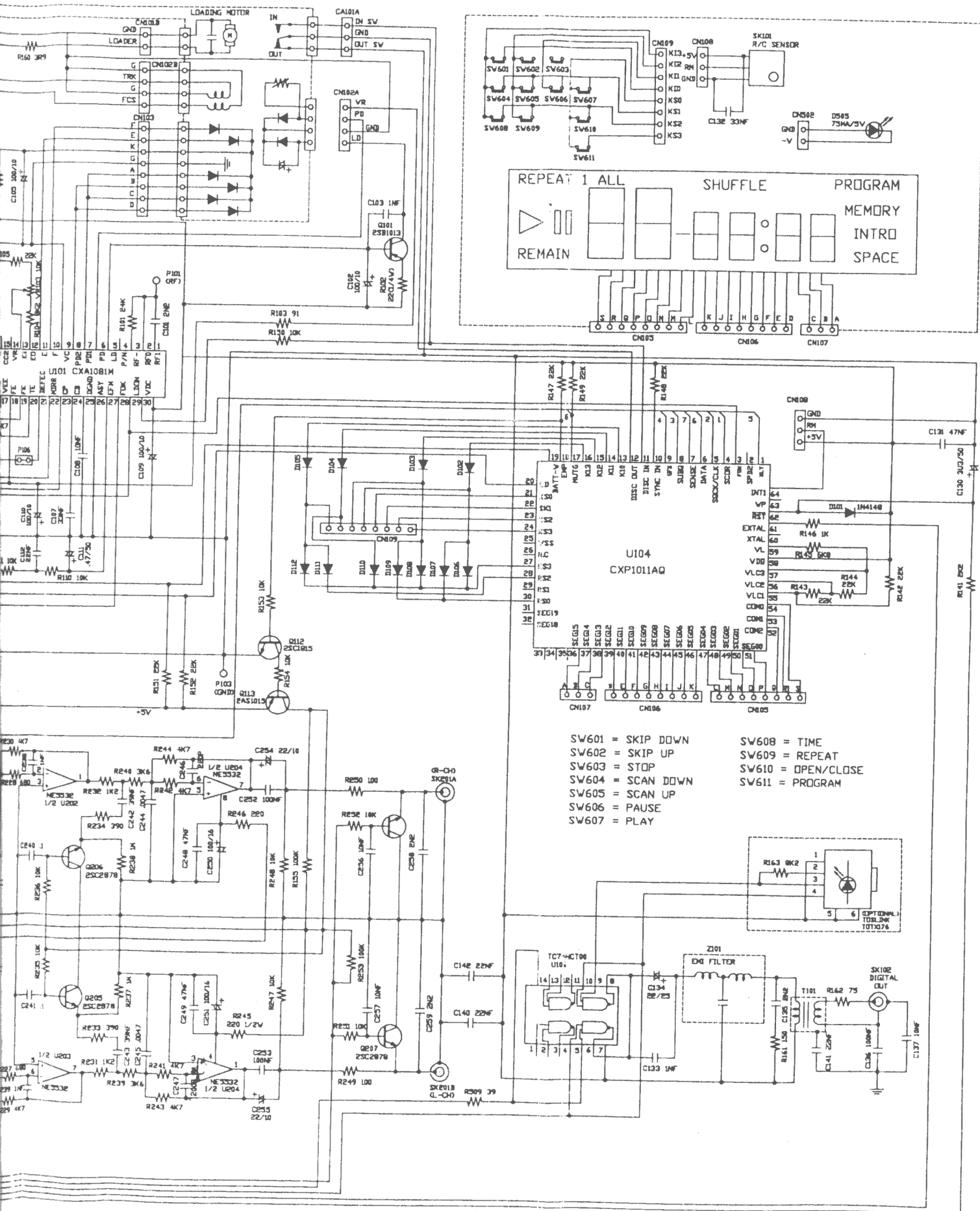
PCB LAYOUT:CONTROL PCB MODULE(PARTS SIDE)

MD90-1305

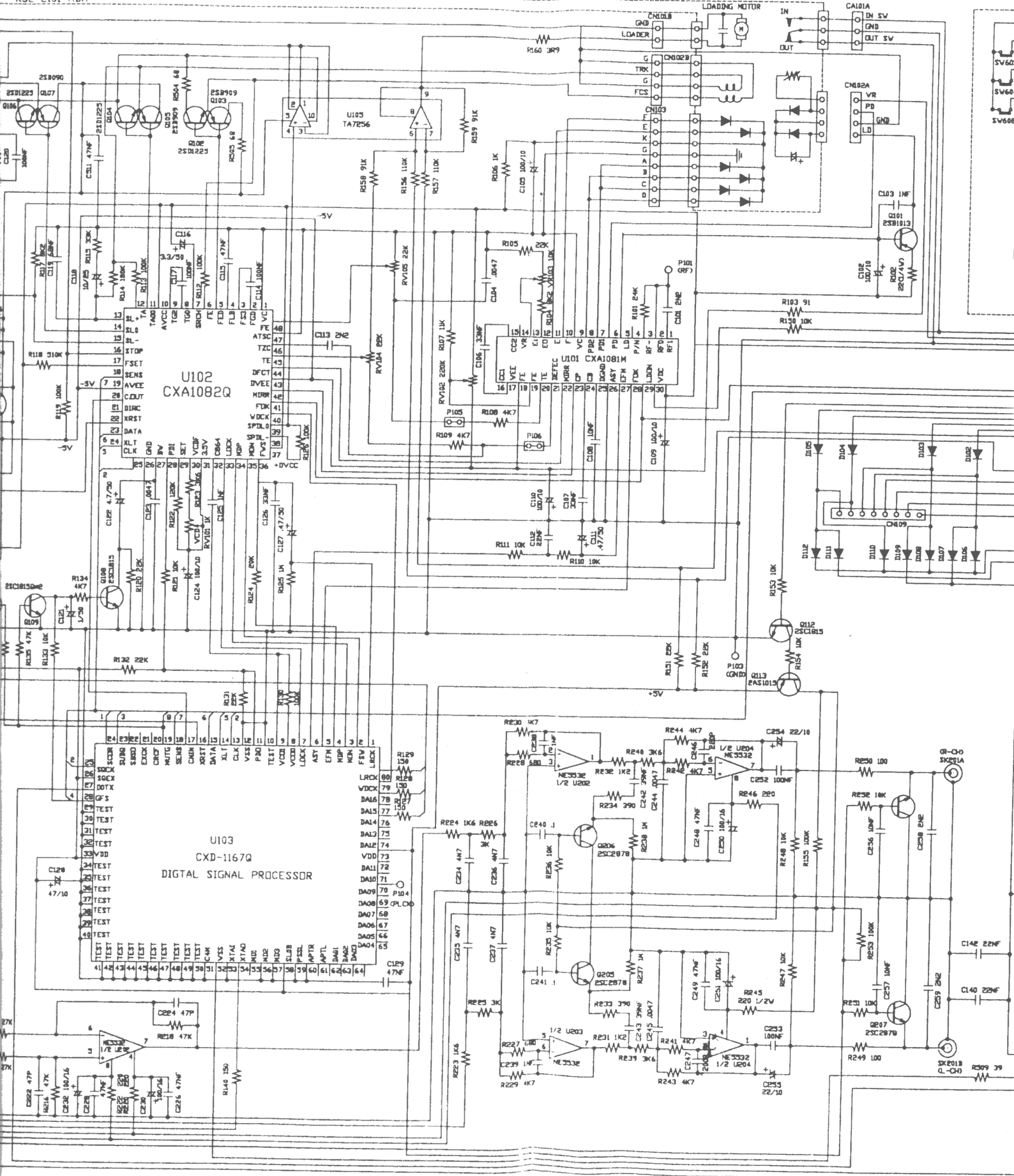


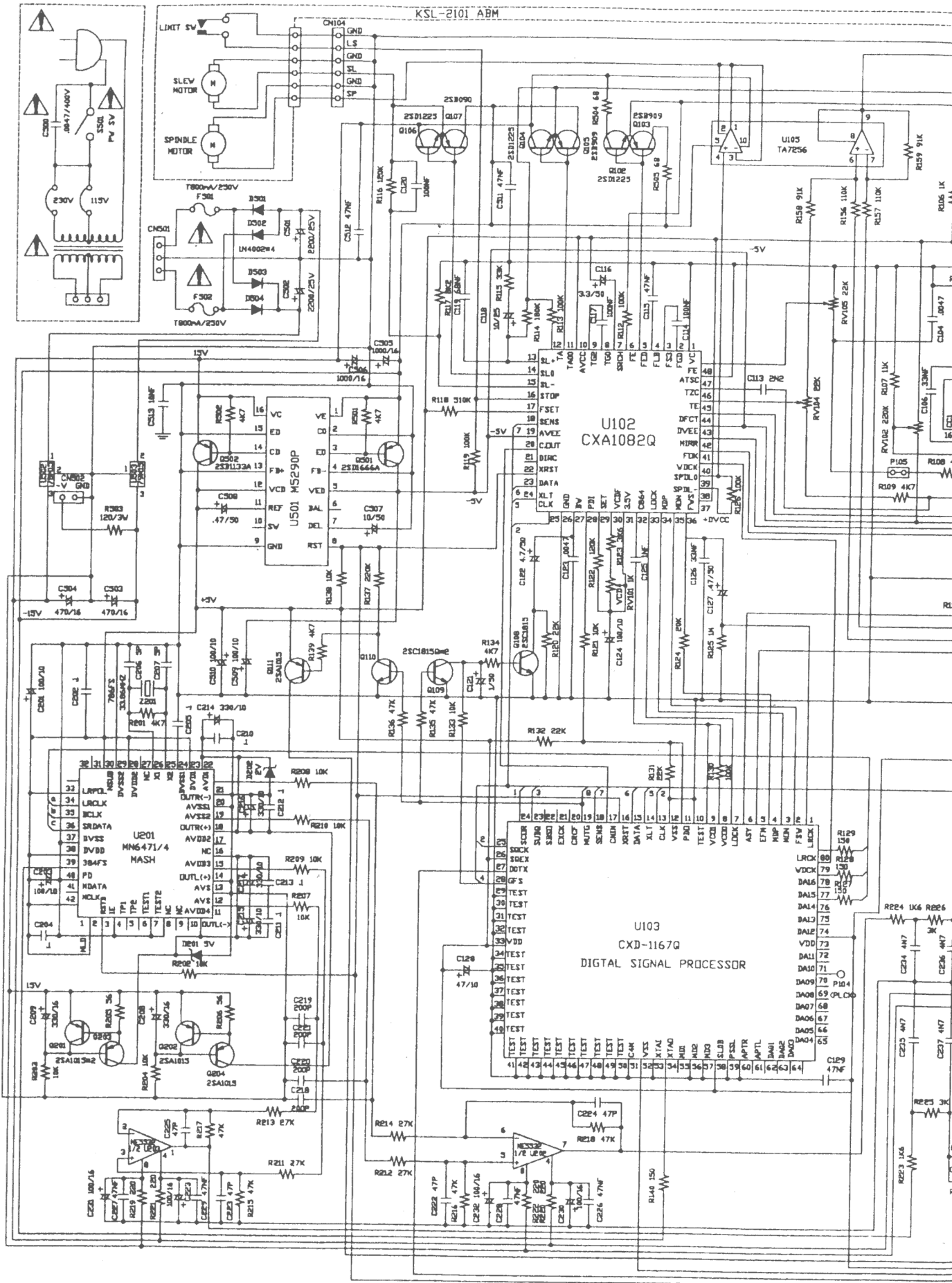
CHASSIS EXPLODED VIEW





- SW601 = SKIP DOWN
- SW602 = SKIP UP
- SW603 = STOP
- SW604 = SCAN DOWN
- SW605 = SCAN UP
- SW606 = PAUSE
- SW607 = PLAY
- SW608 = TIME
- SW609 = REPEAT
- SW610 = OPEN/CLOSE
- SW611 = PROGRAM





CHASSIS PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	Q'TY
M1	31-1213	POWER SWITCH	1
M2	32S1250800TU	FUSE T0.8A 250V UL/CSA (A1 VERSION)	2
M2	32S1250800TS	FUSE T0.8A 250V SEMKO (B/B1/EC VERSION)	2
M3	14-5027	AC CORD SPT-2 (A1 VERSION)	1
M3	14-5028	AC CORD (EC VERSION)	1
M4	14-5003	POWER CORD STOPPER	1
M5	29-2167	TRANSFORMER	1
M6	15-4003	CD DECK	1
M7	13-1045	LCD WINDOW	1
M8	30-1134	LCD UTN	1
M9	30-4019	LED ARRAY	1
M10	12-3152GN	POWER KNOB	1
M11	12-3110	FUNCTION KNOB	11
M12	11-8550	FRONT PANEL	1
M13	11-2144	TRANSFORMER BKT	2
M14	11-6208	POWER SW BKT	1
M15	32S2016	FUSE HOLDER	4
M16	13-8227B	KNOB GUIDE	1
M17	12-1120	FUNCTION KNOB BUSH	11
M18	11-5100	HEAT SINK	1
M19	11-5101	HEAT SINK (A)	1
M20	28-2074	SPONGE	4
M21	28-2079	SPONGE (CD-8)	1
M22	28-2101	CUSHION RUBBER	1
M23	28-1064-1B	FOOT	2
M24	28-1064-2B	FOOT	2
M25	12-3019	CD DOOR	1
M26	11-6206	FRONT CHASSIS	1
M27	11-8456-1	BACK BOARD (120V A1 VERSION)	1
M27	11-8456-2	BACK BOARD (230V B/B1/EC VERSION)	1
M28	11-6205	BOTTOM CABINET	1
M29	11-1123-1	TOP CABINET	1
M30	15-2073-4	LUG 3#	2
M31	13-8233BK	PCB SPACER	4
M32	S2E03+I06SL-2	TAPPING SCREW PS 3#x6R	21
M33	S2B01+I08SL-2	TAPPING SCREW PS 3#x8R	3
M34	S2E03+I06SL-2	TAPPING SCREW FS 3#x6R	3
M35	S2B03+I08SL-2	TAPPING SCREW PS 3#x8R	3
M36	S2B03+I04SL-2	TAPPING SCREW PS 3#x4R	4
M37	S2B03+I10SL-2	TAPPING SCREW PS 3#x10R	4
M38	S2B03+I10SL-2	TAPPING SCREW PS 3#x10R BLACK	2
M39	S1B03+I06SL-2	MACHINE SCREW PM 3#x6R 0.5	8
M40	S1K04+I10SL-2	MACHINE SCREW PM 4#x10R W/10# WASHER	2
M41	S1K04+I06SL-2	SPECIAL SCREW	4
M42	15-2074	SPECIAL WING SCREW	1
M43	RC-0014	REMOTE CONTROL	1

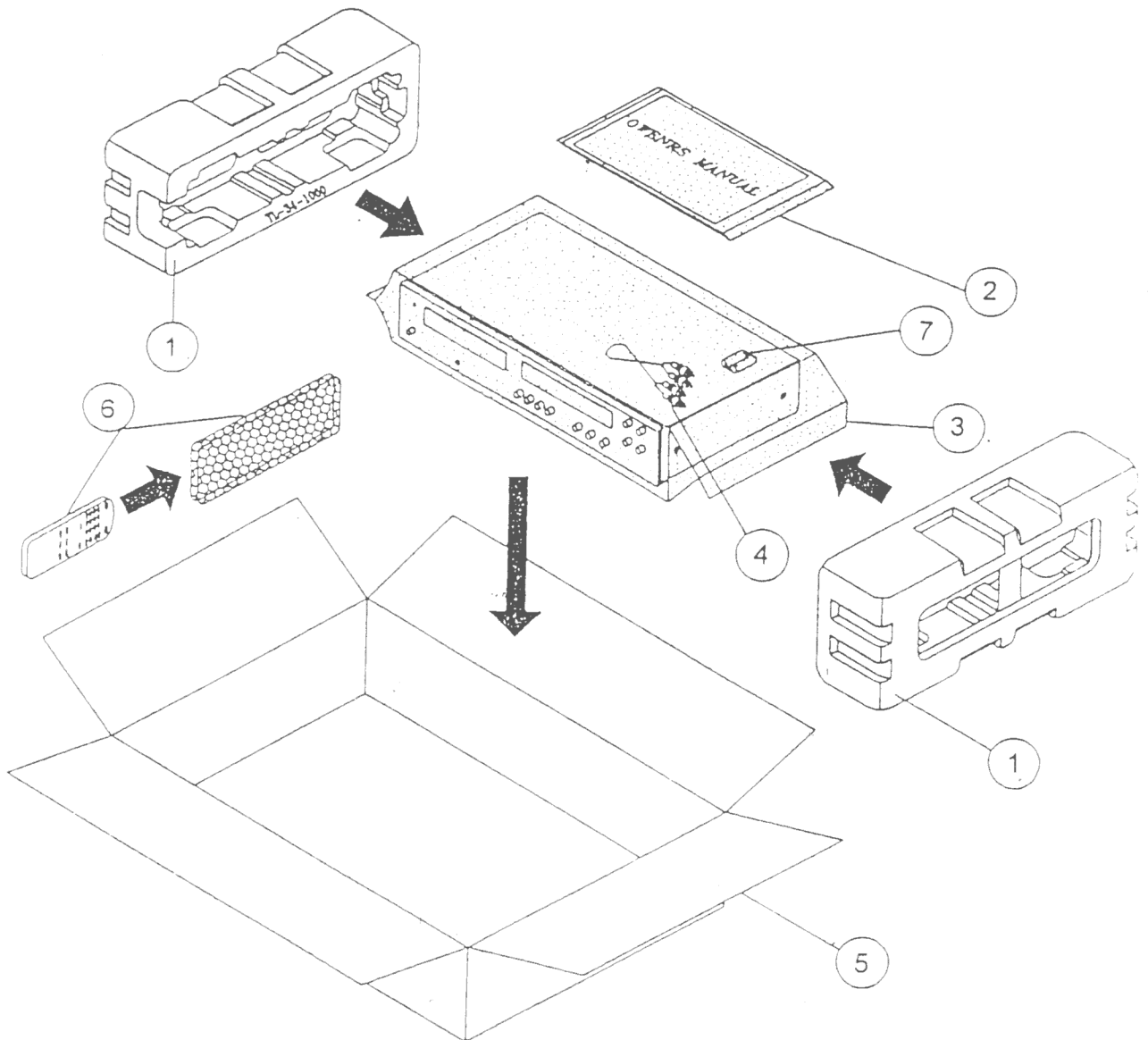
PARTS LIST

AMC CDB SERVICE PARTS LIST				
SYMBOL NO.	PART NO.	DESCRIPTION	SPECIFICATION	Q'TY
	MD90-1304	MAIN PCB MODULE	WITH COMPONENTS	
	19-1304	MAIN PCB	197x163x1.6T 94V0	1
C101	17-5DR222J	CERAMIC CAP.	0.0022UF 50V KY SL TAPING	1
C102	17-0.63ER107M	E/C	100UF 6.3V KB TAPING	1
C103	17-5DR102J	C/C	0.001UF 50V KY TAPING (124-504-064)	1
C104	17-5DR472J	CERAMIC CAP.	0.0047UF 50V ZY F TAPING	1
C105	17-0.63ER107M	E/C	100UF 6.3V KB TAPING	1
C106,107	17-5FR333J	MYLAR CAP.	0.033UF 50V JY TAPING	2
C108	17-5DR103J	CERAMIC CAP.	0.01UF 50V ZY F TAPING	1
C109,110	17-0.63ER107M	E/C	100UF 6.3V KB TAPING	2
C111	17-5ER474M	E/C	0.47UF 50VKB TAPING	1
C112	17-5FR223J	MYLAR CAP.	0.022UF 50V J TAPING	1
C113	17-5DR222J	CERAMIC CAP.	0.0022UF 50V KY SL TAPING	1
C114	17-5FR104J	MYLAR CAP.	0.1UF 50V J TAPING	1
C115	17-5FR473J	MYLAR CAP.	0.047UF 50V J TAPING	1
C116	17-5ER475M	E/C	4.7UF 50V KB TAPING	1
C117	17-5FR104J	MYLAR CAP.	0.1UF 50V J TAPING	1
C118	17-2.5ER106M	E/C	10UF 25V KB TAPING	1
C119	17-5DR683J	SR CAP.	0.068UF 25V MRZ TAPING	1
C120	17-5FR104J	MYLAR CAP.	0.1UF 50V J TAPING	1
C121	17-5ER105M	E/C	1UF 50V KB TAPING	1
C122	17-5ER475M	E/C	4.7UF 50V KB TAPING	1
C123	17-5DR472J	CERAMIC CAP.	0.0047UF 50V ZY F TAPING	1
C124	17-0.63ER107M	E/C	100UF 6.3V KB TAPING	1
C125	17-5DR102J	C/C	0.001UF 50V KY TAPING	1
C126	17-5FR333J	MYLAR CAP.	0.033UF 50V JY TAPING	1
C127	17-5ER474M	E/C	0.47UF 50V KB TAPING	1
C128	17-1.6ER476M	E/C	47UF 16V KB TAPING	1
C129	17-5FR473J	MYLAR CAP.	0.047UF 50V J TAPING	1
C130	17-5ER335M	E/C	3.3UF 50V KB TAPING	1
C131	17-5FR473J	MYLAR CAP.	0.047UF 50V J TAPING	1
C133	17-5DR102J	C/C	0.001UF 50V KY TAPING (124-504-064)	1
C134	17-1.6ER226M	E/C	22UF 16V KB TAPING	1
C135	17-5DR222J	CERAMIC CAP.	0.0022UF 50V KY SL TAPING	1
C137	17-5DR103J	CERAMIC CAP.	0.01UF 50V ZY F TAPING	1
C140	17-5DR223J	CERAMIC CAP.	0.022UF 50V ZY F TAPING	1
C143,144	17-5DR223J	CERAMIC CAP.	0.022UF 50V ZY	2
C201	17-0.63ER107M	E/C	100UF 6.3V KB TAPING	1
C202	17-5FR104J	MYLAR CAP.	0.1UF 50V J TAPING	1
C203	17-0.63ER107M	E/C	100UF 6.3V KB TAPING	1
C204,205	17-5DR104J	CERAMIC CAP.	0.1UF 50V ZY TAPING	2
C206,207	17-5DR5R0J-CH	CERAMIC CAP.	5PF 50V JY SL TAPING	2
C208,209	17-1.6ER337M	E/C	330UF 16V KB TAPING	2
C210-213	17-5FR473J	MYLAR CAP.	0.47UF 50V J TAPING	4
C214-217	17-0.63ER337M	E/C	330UF 6.3V KB TAPING	4
C218-221	17-5SR201J	PS CAP.	200PF 50V JY	4
C222-225	17-5DR470J-SL	CERAMIC CAP.	47PF 50V KY SL TAPING	4
C226-229	17-5FR473J	MYLAR CAP.	0.047UF 50V J TAPING	4
C230-233	17-1.6ER107M	E/C	100UF 16V KB TAPING	4
C234-237	17-5PR472J	PP CAP.	0.0047UF 50V JY TAPING	4
C238,239	17-5PR102J	PP CAP.	0.001UF 50V JY TAPING	2
C240,241	17-5DR104J	CERAMIC CAP.	0.1UF 50V ZY TAPING	2
C242,243	17-5PR393J	PP CAP.	0.039UF 50V JY TAPING	2
C244,245	17-5PR472J	PP CAP.	0.0047UF 50V JY TAPING	2
C246,247	17-5SR201J	PS CAP.	200PF 50V JY	2
C248,249	17-5FR473J	MYLAR CAP.	0.047UF 50V J TAPING	2
C250,251	17-1.6ER107M	E/C	100UF 16V KB TAPING	2
C252,253	17-10PR104J	PP CAP.	0.1UF 100V JY TAPING	2
C254,255	17-1.6ER226M	E/C	22UF 16V KB TAPING	2
C256,257	17-5FR103J	MYLAR CAP.	0.01UF 50V J TAPING	2
C258,259	17-5FR222J	MYLAR CAP.	0.0022UF 50V TAPING	2
C501,502	17-2.5EF228M	AL VENT E/C	2200UF 25V KB	2
C503,504	17-1.6EF477M	AL VENT E/C	470UF 16V KB	2
C505,506	17-1.6EF108M	AL VENT E/C	1000UF 16V KB	2
C507	17-2.5ER106M	E/C	10UF 25V KB TAPING	1
C508	17-5ER474M	E/C	0.47UF 50V KB TAPING	1

AMC CDB SERVICE PARTS LIST				
SYMBOL NO.	PART NO.	DESCRIPTION	SPECIFICATION	Q.TY
C509,510	17-0.63ER107M	E/C	100UF 6.3V KB TAPING	2
C511,512	17-5FR473J	MYLAR CAP.	0.047UF 50V J TAPING	2
C513	17-5DR104J	CERAMIC CAP.	0.1UF 50V ZY TAPING	1
D101-112	30-1N4148	DIODE	1N4148 TAPING	12
D201,202	30-1:2Z5V1	ZENER DIODE	5.1V 500MW TAPING	2
D501-504	30-1N4002	DIODE	1N4002 TAPING	4
F501,502	32S1250800TU	FUSE	T0.8A 250V UL/CSA TIME-LAG (A1 VERSION)	2
F501,502	32S1250800TS	FUSE	T0.8A 250V SEMKO TIME-LAG (B/B1/EC VERSIO	2
Q101	30-2SA950Y	TRANSISTOR	2SA950-Y TAPIING	1
Q102	30-2SD1225MR	TRANSISTOR	2SD1225-MR	1
Q103	30-2SB909MR	TRANSISTOR	2SB909-MR	1
Q104	30-2SD1225MR	TRANSISTOR	2SD1225-MR	1
Q105	30-2SB909MR	TRANSISTOR	2SB909-MR	1
Q106	30-2SD1225MR	TRANSISTOR	2SD1225-MR	1
Q107	30-2SB909MR	TRANSISTOR	2SB909-MR	1
Q108-110	30-2SC1815GR	TRANSISTOR	2SC1815(Y/GRI)TAPING	3
Q111	30-2SA1015GR	TRANSISTOR	2SA1015(Y/GRI)TAPING	1
Q112	30-2SC1815GR	TRANSISTOR	2SC1815(Y/GRI) TAPING	1
Q113	30-2SA1015GR	TRANSISTOR	2SA1015(Y/GRI) TAPING	1
Q201-204	30-2SA1015GR	TRANSISTOR	2SA1015(Y/GRI) TAPING	4
Q205-208	30-2SC2878A	TRANSISTOR	2SC2878-A TAPING	4
Q501	30-2SD313E	TRANSISTOR	2SD313E W/SPACER-1 MICA-1 or 2SD1686A	1
Q502	30-2SB1375J	TRANSISTOR	2SB1375-J or 2SB1133A	1
R101	16-1.6CA243J	RESISTOR,CARBON FILM	24K OHM J 1/8W TAPING	1
R102	16-1.6CA220J	RESISTOR,CARBON FILM	22 OHM J 1/8W TAPING	1
R103	16-1.6CA910J	RESISTOR,CARBON FILM	91 OHM J 1/8W TAPING	1
R104	16-1.6CA822J	RESISTOR,CARBON FILM	8.2K OHM J 1/8W TAPING	1
R105	16-1.6CA223J	RESISTOR,CARBON FILM	22K OHM J 1/8W TAPING	1
R106	16-1.6CA102J	RESISTOR,CARBON FILM	1K OHM J 1/8W RM	1
R107	16-1.6CA113J	RESISTOR,CARBON FILM	11K OHM J 1/8W TAPING	1
R108,109	16-1.6CA472J	RESISTOR,CARBON FILM	4.7K OHM J 1/8W TAPING	2
R110,111	16-1.6CA103J	RESISTOR,CARBON FILM	10K OHM J 1/8W TAPING	2
R112,113	16-1.6CA104J	RESISTOR,CARBON FILM	100K OHM J 1/8W TAPING	2
R114	16-1.6CA184J	RESISTOR,CARBON FILM	180K OHM J 1/8W TAPING	1
R115	16-1.6CA333J	RESISTOR,CARBON FILM	33K OHM J 1/8W TAPING	1
R116	16-1.6CA124J	RESISTOR,CARBON FILM	120K OHM J 1/8W TAPING	1
R117	16-1.6CA822J	RESISTOR,CARBON FILM	8.2K OHM J 1/8W TAPING	1
R118	16-1.6CA514J	RESISTOR,CARBON FILM	510K OHM J 1/8W TAPING	1
R119	16-1.6CA104J	RESISTOR,CARBON FILM	100K OHM J 1/8W TAPING	1
R120	16-1.6CA223J	RESISTOR,CARBON FILM	22K OHM J 1/8W TAPING	1
R121	16-1.4CA103J	RESISTOR,CARBON FILM	10K OHM J 1/4W TAPING	1
R122	16-1.4CA124J	RESISTOR,CARBON FILM	120K OHM J 1/4W TAPING	1
R123	16-1.6CA362J	RESISTOR,CARBON FILM	3.6K OHM J 1/8W TAPING	1
R124	16-1.6CA203J	RESISTOR,CARBON FILM	20K OHM J 1/8W TAPING	1
R125	16-1.6CA105J	RESISTOR,CARBON FILM	1M OHM J 1/8W TAPING	1
R126	16-1.6CA104J	RESISTOR,CARBON FILM	100K OHM J 1/8W TAPING	1
R127-129	16-1.6CA151J	RESISTOR,CARBON FILM	150 OHM J 1/8W TAPING	3
R130	16-1.4CA104J	RESISTOR,CARBON FILM	100K OHM J 1/4W TAPING	1
R131,132	16-1.6CA223J	RESISTOR,CARBON FILM	22K OHM J 1/8W TAPING	2
R133	16-1.6CA103J	RESISTOR,CARBON FILM	10K OHM J 1/8W TAPING	1
R134	16-1.6CA472J	RESISTOR,CARBON FILM	4.7K OHM J 1/8W TAPING	1
R135,136	16-1.6CA473J	RESISTOR,CARBON FILM	47K OHM J 1/8W TAPING	2
R137	16-1.6CA224J	RESISTOR,CARBON FILM	220K OHM J 1/8W TAPING	1
R138	16-1.6CA103J	RESISTOR,CARBON FILM	10K OHM J 1/8W TAPING	1
R139	16-1.6CA472J	RESISTOR,CARBON FILM	4.7K OHM J 1/8W TAPING	1
R140	16-1.6CA151J	RESISTOR,CARBON FILM	150 OHM J 1/8W TAPING	1
R141	16-1.6CA222J	RESISTOR,CARBON FILM	2.2K OHM J 1/8W TAPING	1
R142-144	16-1.6CA223J	RESISTOR,CARBON FILM	22K OHM J 1/8W TAPING	3
R145	16-1.6CA682J	RESISTOR,CARBON FILM	6.8K OHM J 1/8W TAPING	1
R146	16-1.6CA102J	RESISTOR,CARBON FILM	1K OHM J 1/8W TAPING	1
R148,149	16-1.6CA223J	RESISTOR,CARBON FILM	22K OHM J 1/8W TAPING	2
R150	16-1.6CA103J	RESISTOR,CARBON FILM	10K OHM J 1/8W TAPING	1
R151,152	16-1.6CA223J	RESISTOR,CARBON FILM	22K OHM J 1/8W TAPING	2
R153,154	16-1.6CA103J	RESISTOR,CARBON FILM	10K OHM J 1/8W TAPINH	2
R155	16-1.6CA104J	RESISTOR,CARBON FILM	100K OHM J 1/8W TAPING	1
R156,157	16-1.6CA114J	RESISTOR,CARBON FILM	110K OHM J 1/8W TAPING	2

AMC CD8 SERVICE PARTS LIST				
SYMBOL NO	PART NO.	DESCRIPTION	SPECIFICATION	Q'TY
R158,159	16-1:6CA913J	RESISTOR,CARBON FILM	91K OHM J 1/8W TAPING	2
R160	16-1:4CA3R9J	RESISTOR,CARBON FILM	3.9 OHM J 1/4W TAPING	1
R161	16-1:6CA151J	RESISTOR,CARBON FILM	150 OHM J 1/8W TAPING	1
R162	16-1:4CA750J	RESISTOR,CARBON FILM	75 OHM J 1/4W TAPING	1
R201	16-1:6CA472J	RESISTOR,CARBON FILM	4.7K OHM J 1/8W TAPING	1
R202-204	16-1:6CA103J	RESISTOR,CARBON FILM	10K OHM J 1/8W TAPING	3
R205,206	16-1:6CA560J	RESISTOR,CARBON FILM	56 OHM J 1/8W TAPING	2
R207-210	16-1:6MA103F	RESISTOR,METAL FILM	10K OHM F 1/8W	4
R211-214	16-1:6MA273F	RESISTOR,METAL FILM	27K OHM F 1/8W	4
R215-218	16-1:6MA473F	RESISTOR,METAL FILM	47K OHM F 1/8W	4
R219-222	16-1:6CA221J	RESISTOR,CARBON FILM	220 OHM J 1/8W TAPIG	4
R223,224	16-1:6MA162F	RESISTOR,METAL FILM	1.6K OHM F 1/8W	2
R225,226	16-1:6MA302F	RESISTOR,METAL FILM	3K OHM F 1/8W	2
R227,228	16-1:6MA681F	RESISTOR,METAL FILM	680 HON F 1/8W	2
R229,230	16-1:6MA472F	RESISTOR,METAL FILM	4.7K HOM F 1/8W	2
R231,232	16-1:6MA122F	RESISTOR,METAL FILM	1.2K OHM F 1/8W	2
R233,234	16-1:6MA391F	RESISTOR,METAL FILM	390 OHM F 1/8W	2
R235,236	16-1:6CA103J	RESISTOR,CARBON FILM	10K OHM J 1/8W TAPING	2
R237,238	16-1:6CA105J	RESISTOR,CARBON FILM	1M OHM J 1/8W TAPING	2
R239,240	16-1:6MA382J	RESISTOR,METAL FILM	3.6K OHM F 1/8W	2
R241-244	16-1:6MA472F	RESISTOR,METAL FILM	4.7K OHM F 1/8W	4
R245,246	16-1:6CA221J	RESISTOR,CARBON FILM	220 OHM J 1/8W TAPING	2
R247,248	16-1:6CA103J	RESISTOR,CARBON FILM	10K OHM J 1/8W TAPING	2
R249,250	16-1:6CA101J	RESISTOR,CARBON FILM	100 OHM J 1/8W TAPING	2
R251,252	16-1:6CA103J	RESISTOR,CARBON FILM	10K OHM J 1/8W TAPING	2
R253	16-1:6CA104J	RESISTOR,CARBON FILM	100K OHM J 1/8W TAPING	1
R501,502	16-1:6CA472J	RESISTOR,CARBON FILM	4.7KOHM J 1/8W TAPING	2
R503	16-3AN121J	RESISTOR,CARBON FILM	120 OHM J 3W RS	1
R504,505	16-1:2AA680F	RESISTOR,METAL OXIDE	68 OHM J 1/2W 10.0MM	2
R509	16-1:4CA390J	RESISTOR,CARBON FILM	39 OHM J 1/4W TAPING	1
RV101	29-R6V102B	SEMI-FIX RESISTOR	1K OHM 6# 3P	1
RV102	29-R6V224B	SEMI-FIX RESISTOR	220K OHM 6# 3P	1
RV103	29-R6V103B	SEMI-FIX RESISTOR	10K OHM 6# 3P	1
RV104,105	29-R6V223B	SEMI-FIX RESISTOR	22K OHM 6# 3P	2
SK102	12-2187	RCA JACK	DTR-0390B-D-6	1
SK201	12-2188	RCA JACK	2P HSP-242V2-02 BLK(SHILED PLATE)	1
T101	29-1233	COIL	CO2-400-10026	1
U101	30-CXA1081M	I.C.	CXA1081M 30P SOP	1
U102	30-CXA1082BQ	I.C.	CXA1082BQ 48P QFP	1
U103	30-CXD1167Q	I.C.	CXD1167Q 80P QFP	1
U104	30-CXP1011Q	I.C.	CXP1011Q 64P QFP	1
U105	30-TA7256P	I.C.	TA7256P 10P	1
U106	30-PC74HCT00N	I.C.	PC74HCT00N (DIL) 14P	1
U201	30-MN6474AM	I.C.	MN6474AM 42P	1
U202-204	30-NE5532	I.C.	NE5532N 8P	3
U501	30-M5290P	I.C.	M5290P 16P	1
U502	30-LM7815A	I.C.	JRC7815A 3P	1
U503	30-LM7915A	I.C.	JRC7915A 3P	1
Z101	29-1118	CERAMIC FILTER	DSS310-55B271M 100V	1
Z201	30-4024	CRYSTAL	33.8688MHZ HC-49/U	1
	11-5100	HEAT SINK	41.4x16.4x45MM	1
4SCD8M13	11-5101	HEAT SINK (A)	10.3x15x45MM	1
	MD90-1305	CONTROL PCB MODULE	WITH COMPONENTS	
	19-1305	CONTROL PCB	208x51.6T 94V0	1
C132	17-5DR223J	CERAMIC CAP.	0.022UF 50V ZY	1
R170	16-1:4CA471J	RESISTOR,CARBON FILM	470 OHM J 1/4W TAPING	1
SK101	30-LTM9052-4	INFRARED RECEIVER MODULE	LTM-9052-5	1
C500	17-40CR472M	CERAMIC CAP.	4700PF 400V ZY	1
S601-611	31-1365	TACT SW	SKHHBV 2710-EP	11
	30-1134	LCD	H012ENV-2	1
	30-4019	LED ARRAY	LED DM-1102	1
	30-1115	LED	3# GREEN LTL-4231	1

PACKING DIAGRAM



ITEN	PARTS NO.	DESCRIPTION	Q'TY
1	34-1060	POLYFOAM	2
2	21-4043	INSTRUCTION BOOK	1
3	26-0712	PE BAG	1
4	27-2012	RCA PLUG GRY L=450MM	1
5	CT-5264	CARTON	1
6	RC-0014	REMOTE CONTROL	1
7	37-C1.5V4	BATTERY UM-4 1.5V	2

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