AKIRA

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Portable Disc Player

Service Manual

MODEL:
DV-401P

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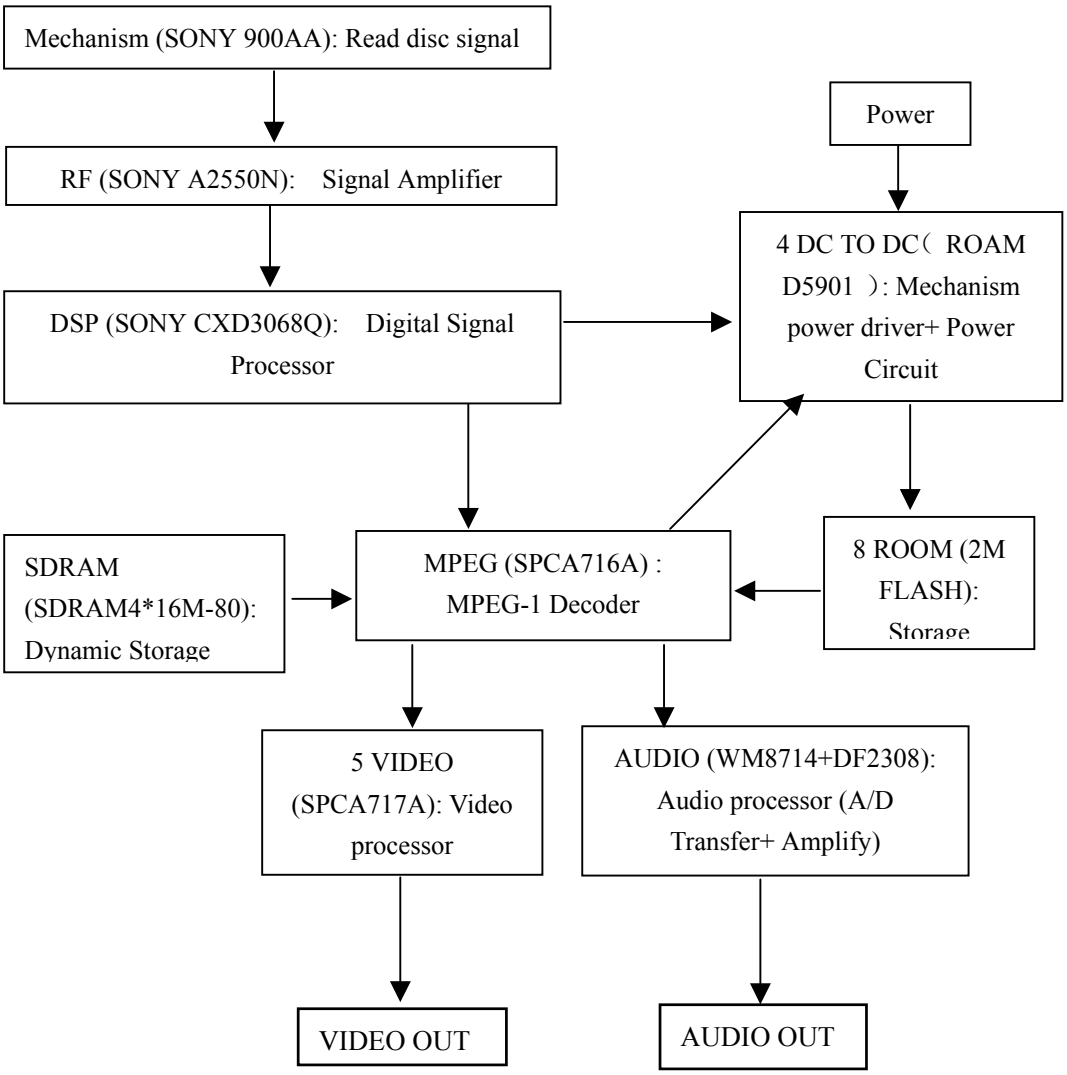
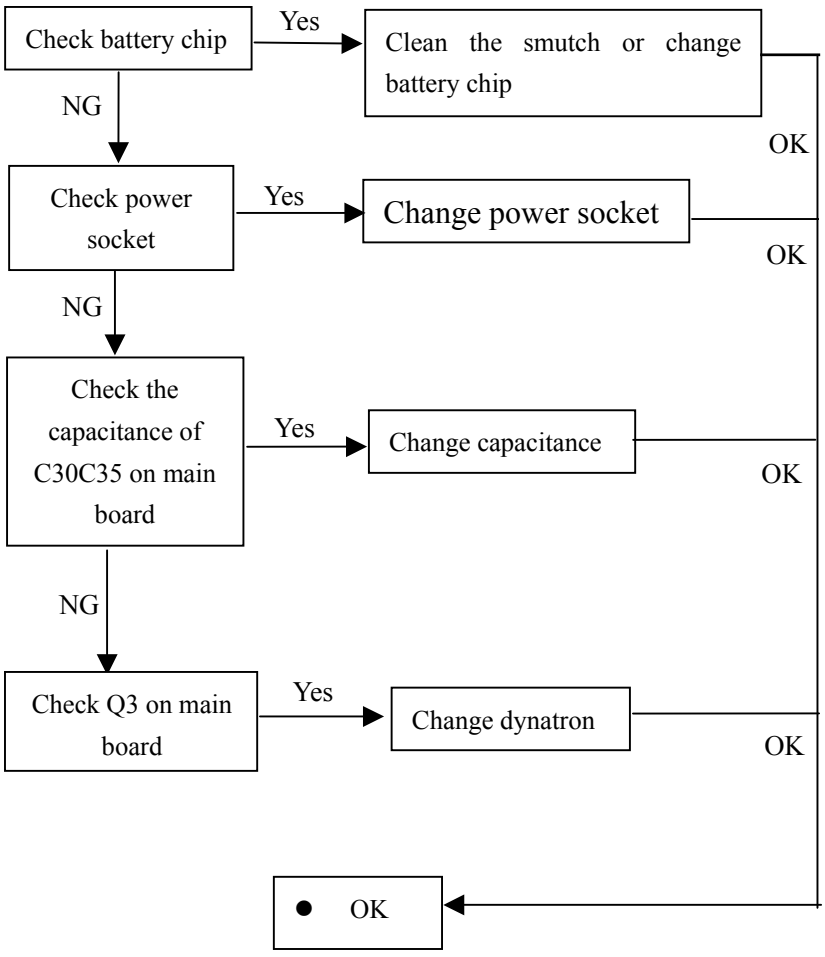
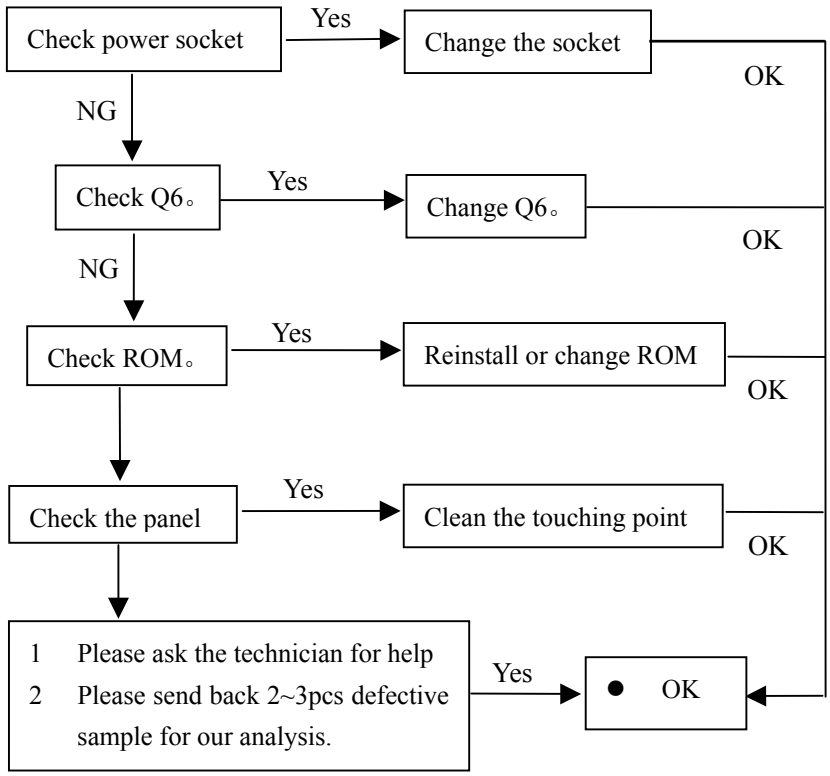
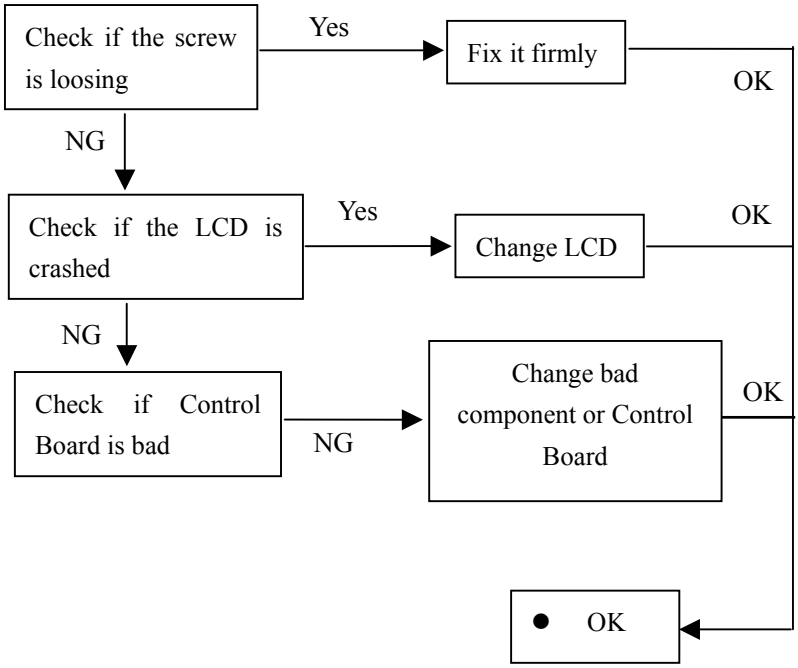
MAIN BOARD CIRCUIT DIAGRAM & FUNCTION EXPLANATION



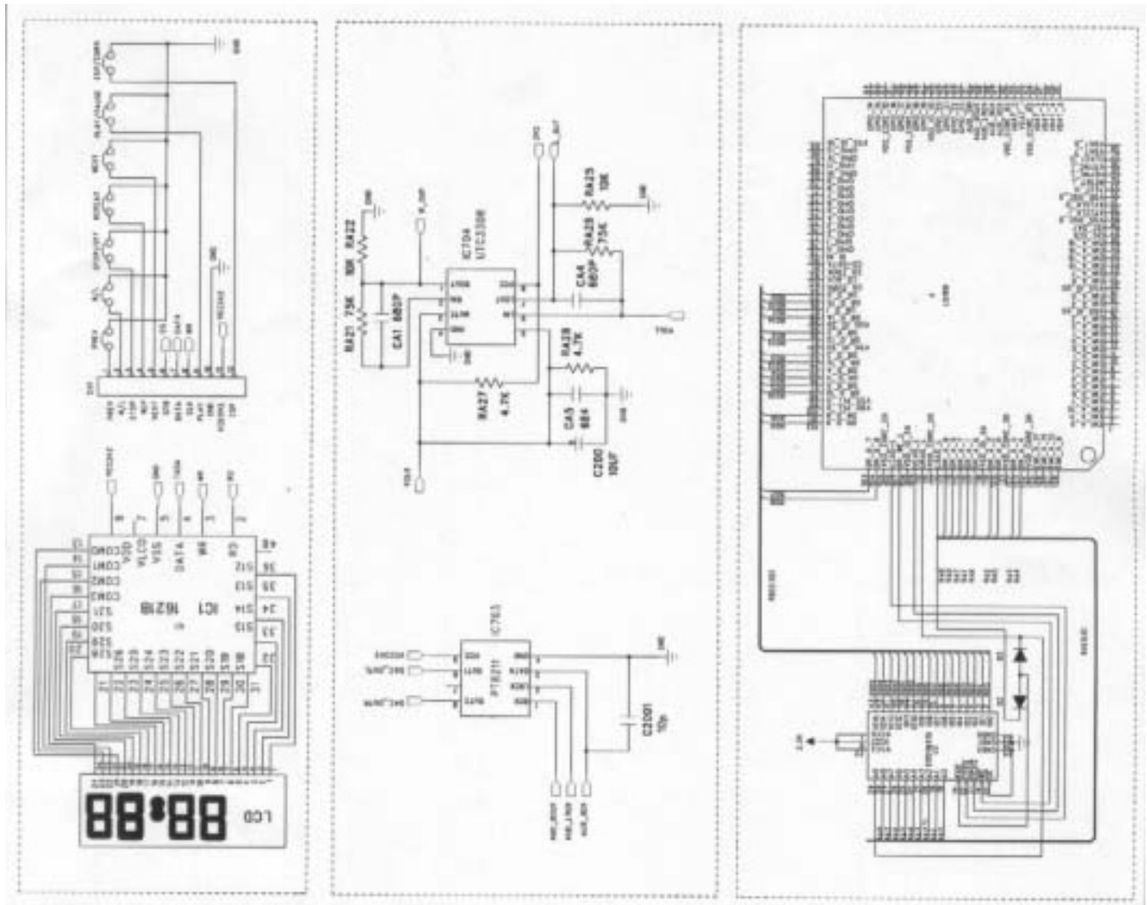
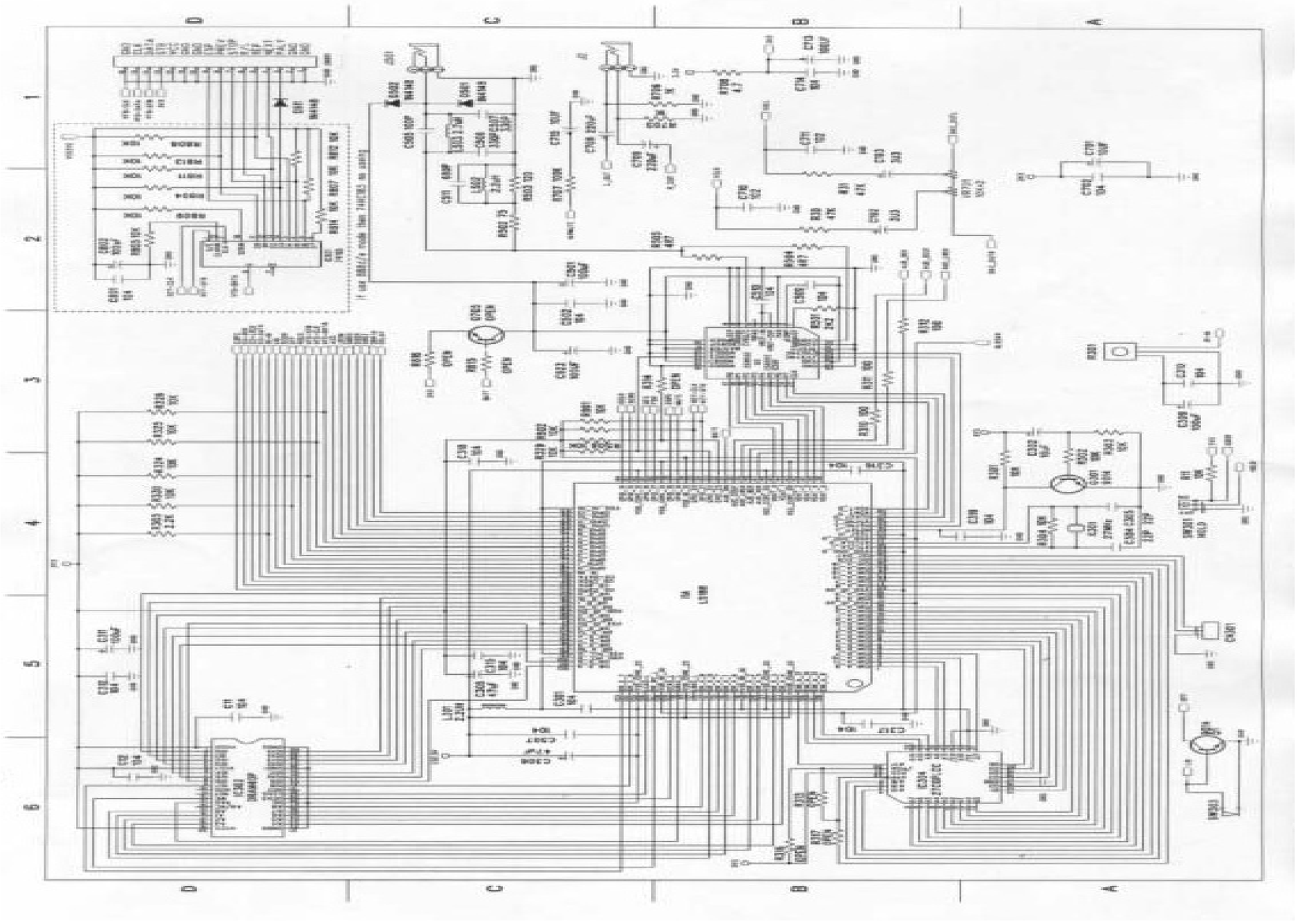
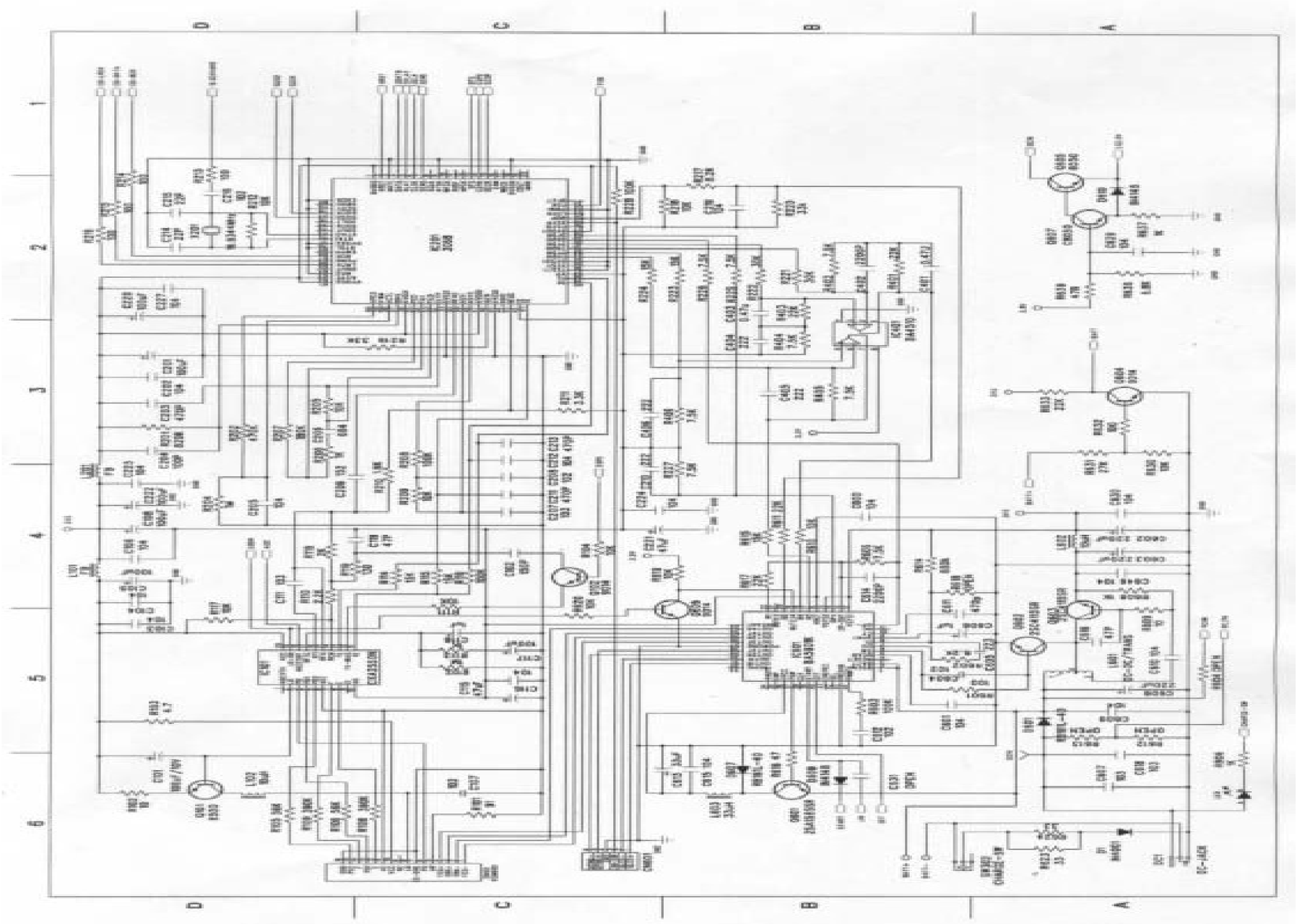
TROUBLE SHOOTING

Batteries can't play CD	1. There is smutch on the touching point of battery chip, or the chromed place of it affects the function due to serious rusting. (Judgment: keep pressing the 'turn-on' key, the voltage between negative of diode (D1 1N4002) and cathode of battery chip is lower than 2.3V.
	2. Power socket (DC2) is damaged (bad touching between 2 pin and 3 pin)。(Judgment: bad connection between cathode of battery chip and power).
	3. Capacitance on main board 30 C35 (1UF/0603) is bad or its capacity is low.
	4. Amplifier multiple of main board Q3 (S8050D) is less than 200.
	Correction process: 

No display when switch on the player	1. Power socket (DC2) is damaged (bad 3pin). (Judgment: when keep pressing 'turn-on' switch, there is no voltage between negative of D1 1N4002 and ground).
	2. The circuit from DC to DC (AT5801 IC and circumjacent circuit) is bad. The most possible component is Q6 (S8050D).
	3. ROM (SST39VF020/040 IC) is in bad connection or losing data.
	4. 'PLAY' button is in bad connection.
	Correction process: 

<table>
<tr><td rowspan="3">Absent Stroke on LCD</td><td>1. The screws on Control Board are loosing or the LCD is broken, due to bad protection during transportation.</td></tr>
<tr><td>2. Bad Control Board.</td></tr>
<tr><td>Correction process:
 
</td></tr>
<tr><td>Some button malfunction or touch-feeling not well</td><td>Cause analysis and Correction method:
1) There are smutch between button and main board. Please clean smutch.
2) Bad Button Housing: Please chance button housing.
3) Bad Control Board: Please ask Engineer to repair it.</td></tr>
<tr><td>Show ‘No Disk” when reading disc</td><td>Cause analysis and Correction method:
1) Improper Disc：Serious-Scratched disk or the format of Disc is out of MPEG-1Standard.
2) There are dusts on Pick up lens: please clean the lens with professional cleaning disc.</td></tr>
</table>

EASY DAMAGED COMPONENT AND BADNESS PHENOMENON LIST

COMPONENT	BADNESS PHENOMENON
AC power	AC no power.
Line control	Malfunction.
Batteries for remote controller	No controlling function.
Bettery chip	No power.
Power socket	No power.
Q6 (C4115S)	Weak power can't start the unit or no. 3.3V power voltage.
HOLD switch	Malfunction.
Open switch	Show "OPEN" or power off when turn on the unit.
Touching between ROOM (2M FLASH) and socket	No feekback when turn on the unit.
Earphone socket	No sound or single sound or interrupted sound.
Connecting housing of control board	No feednack or no display when turn on the unit.

CIRCUIT DIAGRAM