

Real
time

Service Manual

DIGITAL HOME CINEMA SYSTEM

HC-7210SU

DAEWOO DAT CO., LTD.

OCT.2012

DIGITAL HOME CINEMA SYSTEM

HC-7210SU

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Safety Precautions

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION RISK OF ELECTRIC SHOCKS DO NOT OPEN	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
	THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.	
	THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.	

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

LASER SAFETY

THIS UNIT EMPLOYS A LASER. ONLY QUALIFIED SERVICE PERSONNEL SHOULD REMOVE THE COVER OR ATTEMPT TO SERVICE THIS DEVICE DUE TO POSSIBLE EYE INJURY.

CAUTION : USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION : POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Important Safety Instructions

- All the safety and operating instructions should be read before the appliance is operated.
 - The safety and operating instructions should be retained for future reference.
 - All warnings on the appliance and in the operating instructions should be adhered to.
 - All operating and use instructions should be followed.
1. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink,

laundry tub, in a wet basement, or near a swimming pool, and the like.

PORTABLE CART

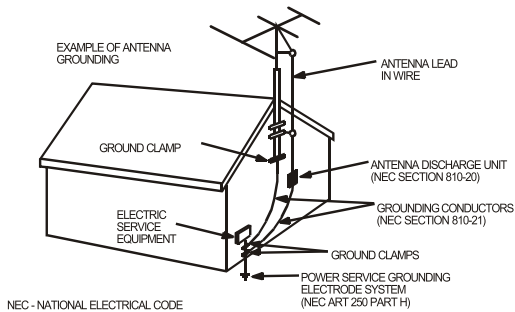


Figure 2

2. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
3. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
4. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
5. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
6. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
7. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
8. Grounding or Polarization - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
9. Power - Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
10. Protective Attachment Plug - If the appliance is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
11. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
12. Power Lines - An outdoor antenna should be located away from power lines.

Safety Precautions

13. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure 1.



14. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

15. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

16. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

- a) The power-supply cord or the plug has been damaged; or
- b) Objects have fallen, or liquid has been spilled into the appliance; or
- c) The appliance has been exposed to rain; or
- d) The appliance does not appear to operate normally or exhibits a marked change in performance; or
- e) The appliance has been dropped, or the enclosure damaged.

17. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

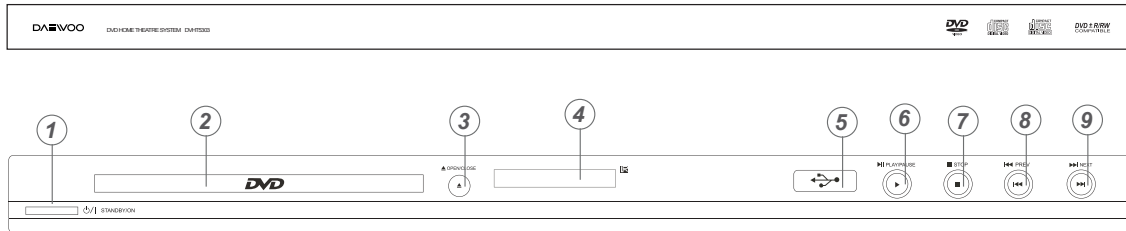
Specifications

Laser	Wavelength 650nm	
Video	NTSC/PAL/AUTO	
Frequency response	20Hz~20KHz (± 3 dB)	
Signal/noise ration	≥ 90 dB	
Channel separation	≥ 85 dB (1kHz)	
Dynamic range	≥ 80 dB (1kHz)	
Output Audio	Analog	Output level: 2.0 + 0/-0.2Vrms (Load impedance: 10k Ω)
	digital	Output level: 0.5 $\pm$ 0.1Vp-p (Load impedance: 75 Ω)
Output Video	Composite	Output level: 1.0 $\pm$ 0.1Vp-p (Load impedance: 75 Ω , imbalance, negative polarity)
	S-video	Output level: brightness (Luma) 1.0 $\pm$ 0.1Vp-p chromaticity (Color) 0.286 $\pm$ 20% (Load impedance: 75 Ω)
	Component	Y: 1Vp-p, Pb/Pr: 0.7Vp-p (Load impedance: 75 Ω)
POWER		AC 127V / 60Hz
Consumption		90W
Frequency response		Subwoofer : 20Hz~170Hz Satellites : 120Hz~20kHz
Separation		≥ 40 dB
Driver Unit		Subwoofer : 5.25 " Woofer Satellites: 3" x 5
S/N Ratio		≥ 70 dB
Distortion		$\geq 0.5\%$ (1K, 1W)
Unit size		Subwoofer: 165 x 280 x 330mm (W x H x D) Satellites: 95 x 150 x 95 mm (W x H x D)
Product weight		About 10kg

Notes: Design and specifications in this instruction manual are subjected to change without prior notice, to improve the quality and function.

Location of Users Controls

FRONT PANEL



1 STANDBY/ON

To switch the unit ON or STANDBY when connected to an AC power outlet.

2 DISC Tray

3 OPEN/CLOSE Button

To open or close the disc tray.

4 LED Display

5 USB Port

6 PLAY/PAUSE Button

Press to play the loaded disc, press again to pause current playback.

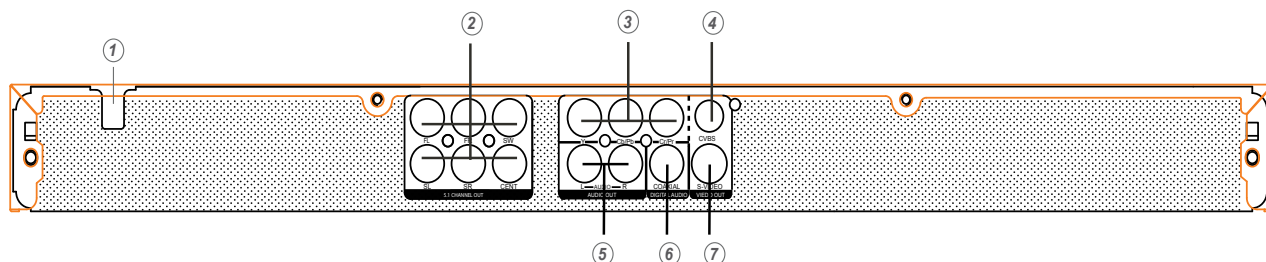
7 STOP Button

8 PREVIOUS Button

9 NEXT Button

Location of Users Controls

REAR PANEL



1 Power Cord Socket

2 5.1 CHANNEL AUDIO OUT

3 COMPONENT (Y. Pb. Pr)

4 VIDEO OUT

Connects composite video signal to input AV or PHONO sockets of TV or monitor to achieve high fidelity colour reproduction.

5 AUDIO OUT (L/R)

6 DIGITAL AUDIO COAXIAL OUT

Connects digital audio under play mode into an AV amplifier or a receiver equipped with digital audio decoder for you to enjoy the theatre-quality sound in your home.

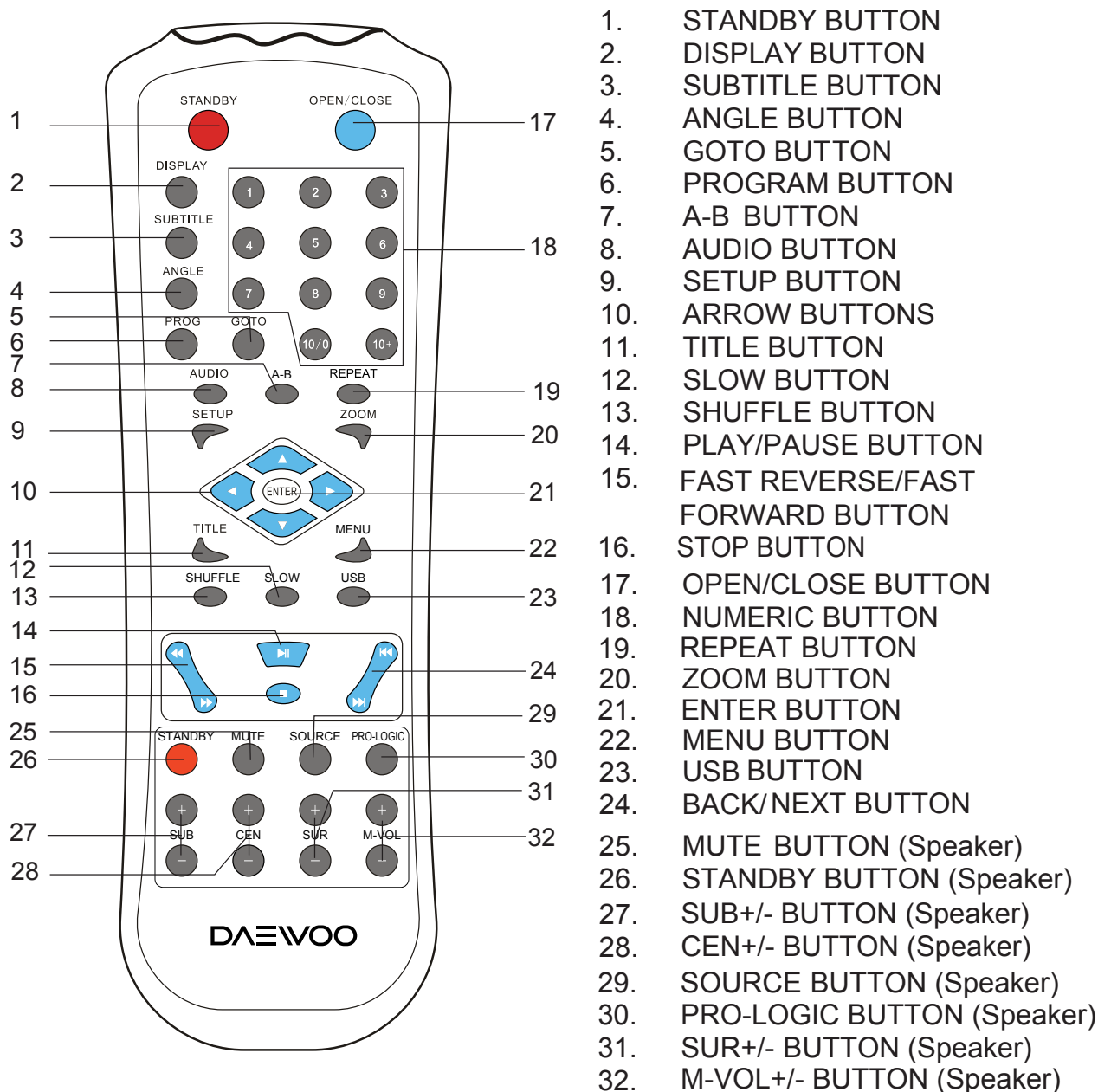
7 S-VIDEO OUTPUT

Connects to TV or monitor equipped with S-VIDEO input. In order to achieve a sharper and cleaner picture than when connected via VIDEO OUT (composite video).

Location of Users Controls

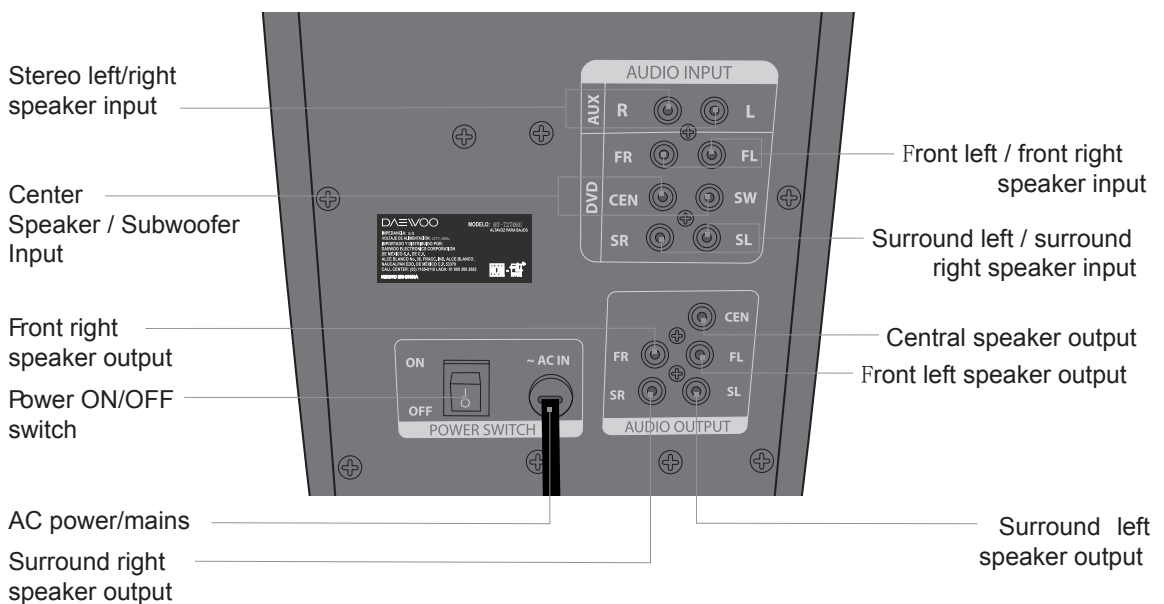
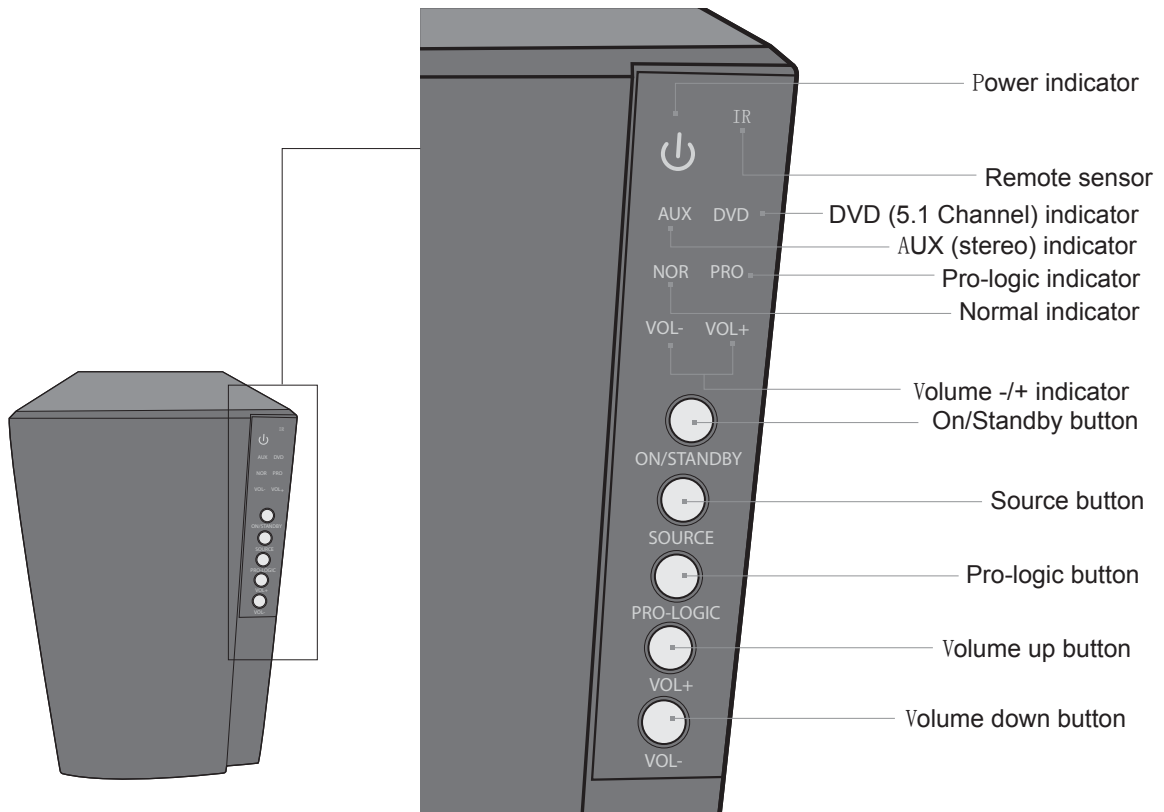
NAMES AND LAYOUT OF REMOTE CONTROL

*After setting the mode by using the SETUP menu (for example, NTSC select in NTSC/PAL/AUTO Setup), the setting is kept even after the product is switch off and on.



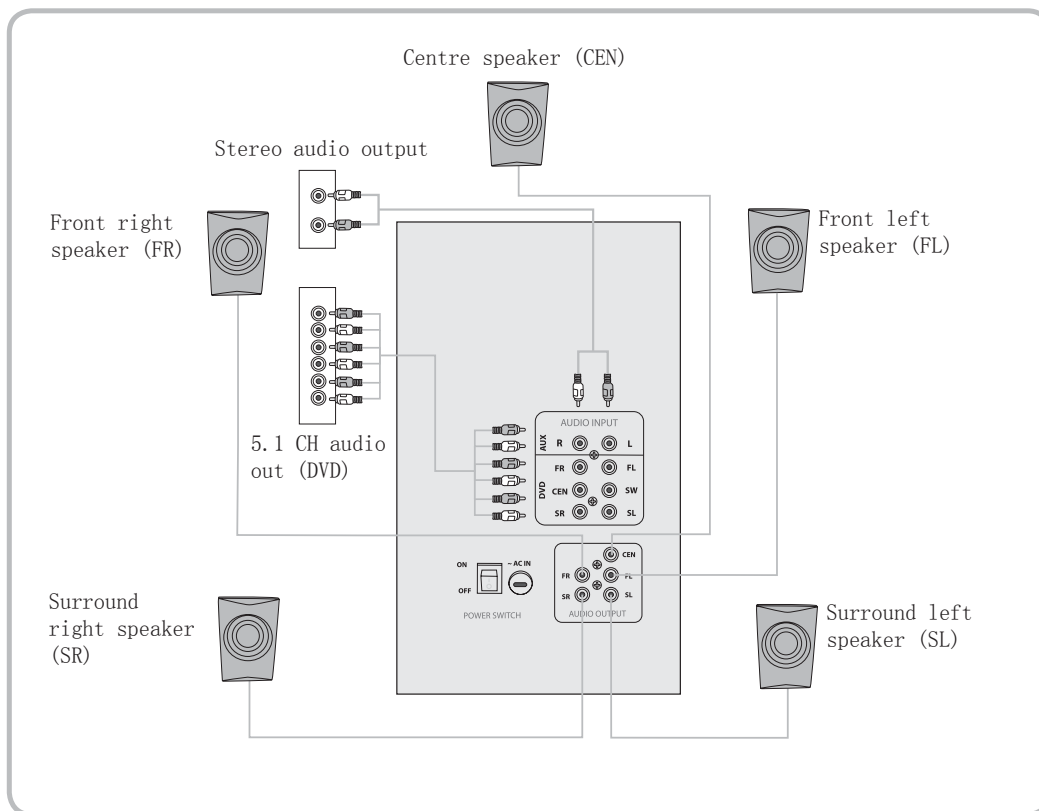
Connecting to Equipment

SPEAKER



SETTING UP YOUR HOME THEATRE SYSTEM

- 1 Connect each speaker cable to the back of the subwoofer, matching up the labels on the back of each one to the appropriate socket (see diagram below).
- 2 Connect the sound equipment or DVD player to the AUDIO INPUT on the back of the subwoofer. You can use either the AUX or DVD inputs, depending on your equipment, or use both for different appliances. For stereo sound sources, use the stereo component cable provided to connect with the AUX input sockets. For 5.1 channel sound sources, you will need a 5.1 component cable that comes with your equipment or can be purchased at your local ASDA store or online at www.asda.com. Connect to the DVD input sockets. Plug the other end of the mains cable into a standard three pin wall socket and switch the power on at the wall.
- 3
- 4 Switch the ON/OFF switch to I (On). The standby light on the front of the system will flash.



SPEAKER POSITIONING

In order to get the most out of your home theatre system, you will need to position the speakers correctly. To achieve optimum surround sound the speakers should ideally be placed at regular intervals around the audience.

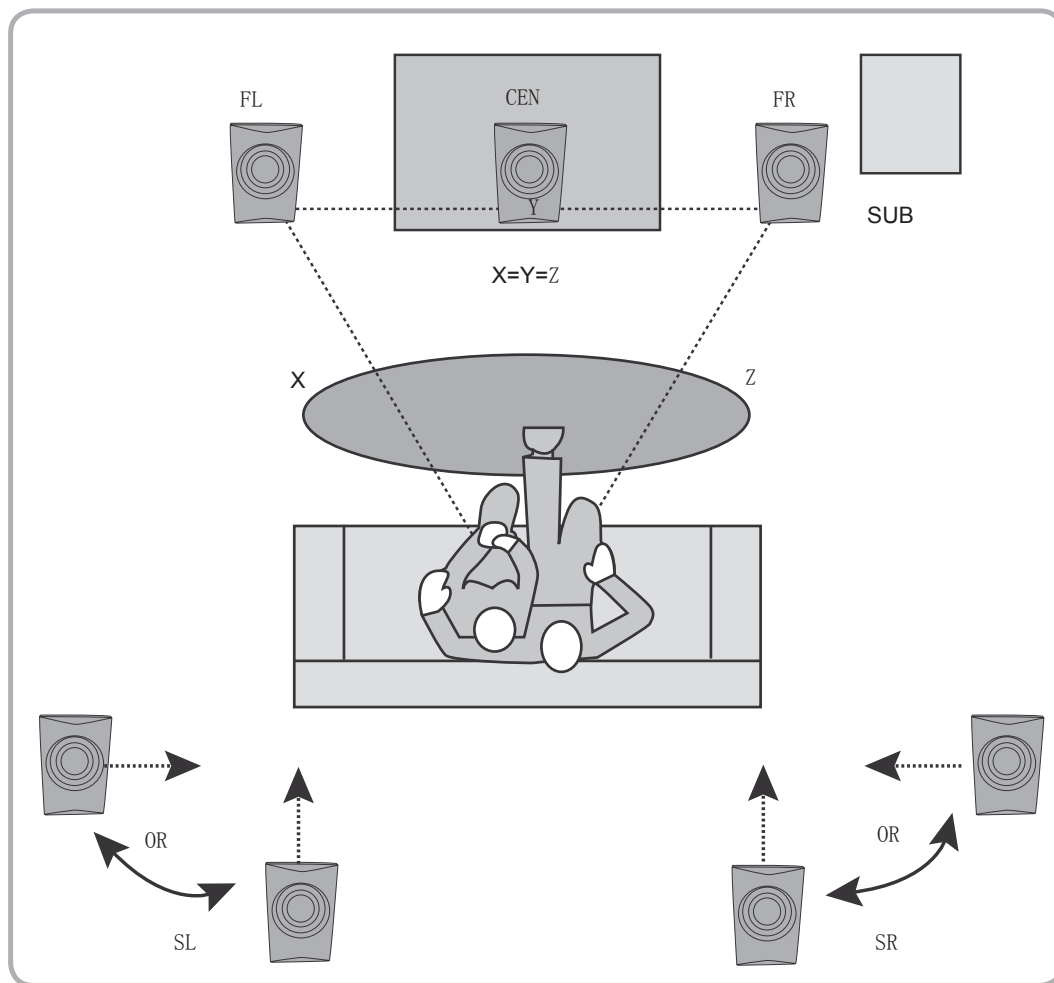
Refer to the labels on the backs of the satellite speakers, in order to place and connect them correctly.

There are three 'front' speakers – FL, FR and CEN.

There are two 'surround', or back speakers – SL and SR.

The subwoofer should be positioned centrally, ideally next to the television or sound source.

Please refer to the diagram below.



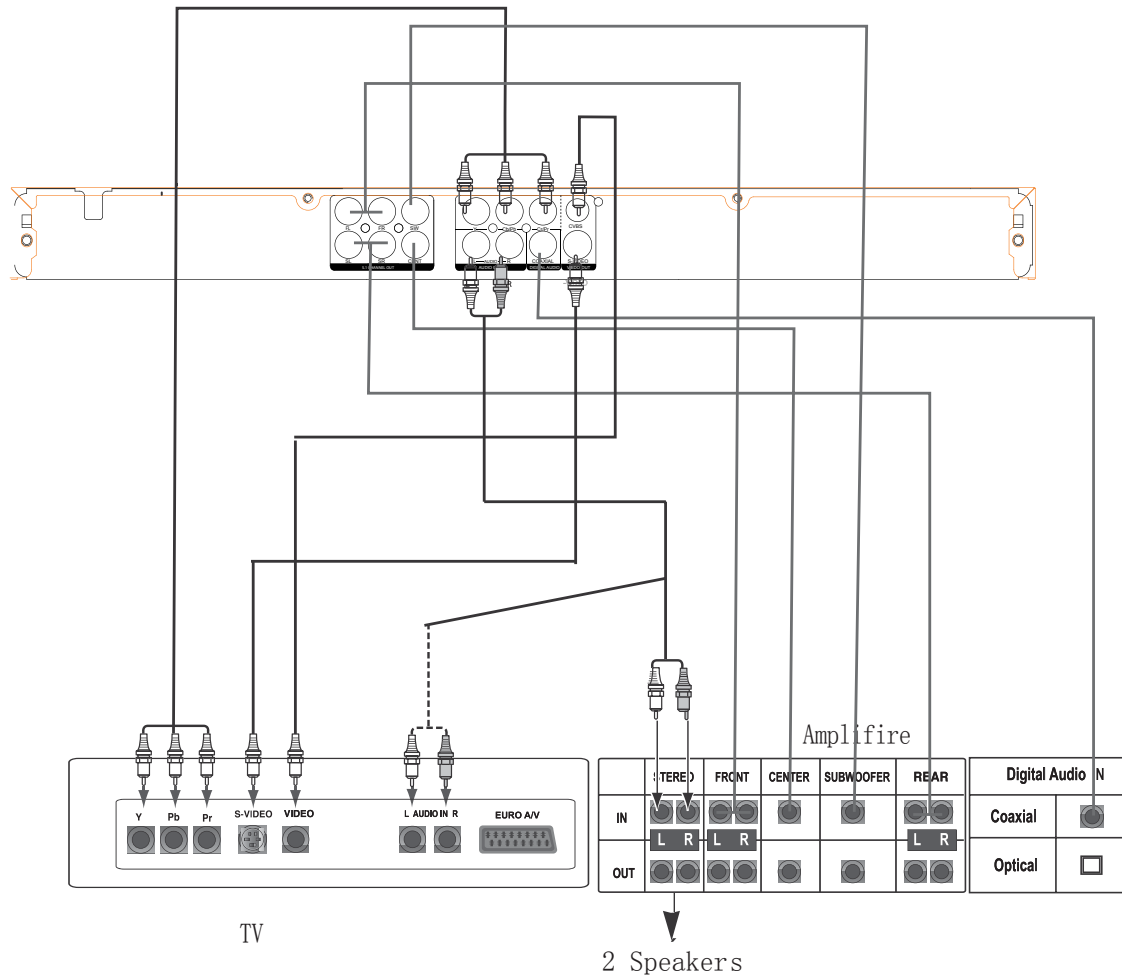
Connecting to Equipment

Turn off all equipment before operation.

The unit has many kinds of output modes like A/V output, S-VIDEO output and digital signal output (COAXIAL).

You may select as you need

CONNECTED TO A TV AND AN AUDIO AMPLIFIER



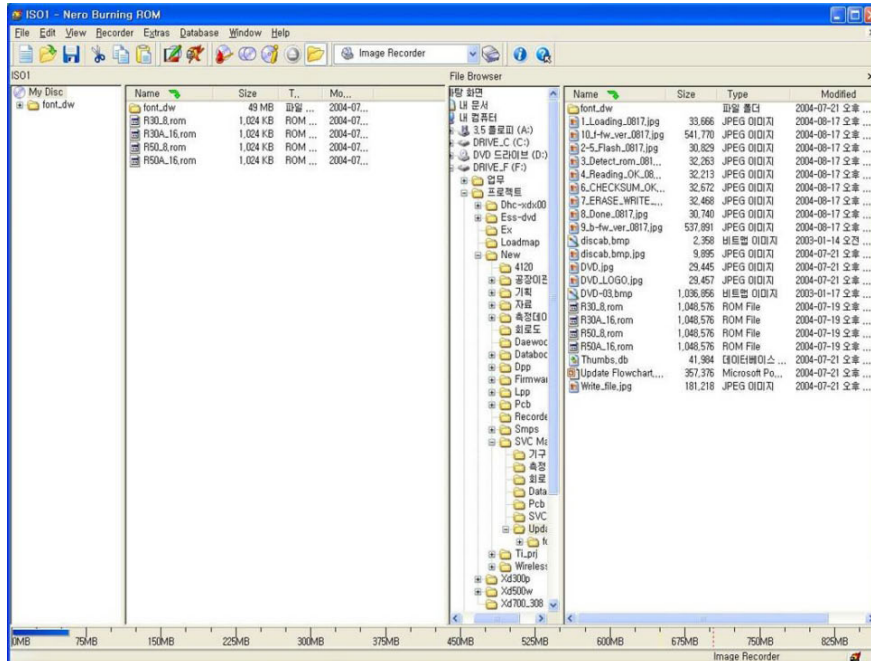
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Firmware Upgrade

• Preparing the Firmware Upgrade

1. Write a disc to Update file by PC Writing Program.
2. A size of dummy folder is more than 10M bite. (ex : font_dw, attached picture)
3. Put Firmware file (SW8202RD.BIN) in a disc.

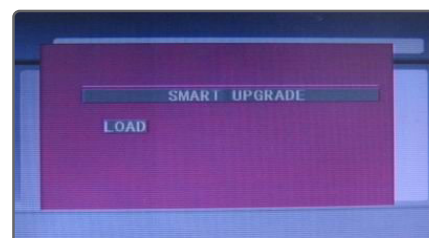
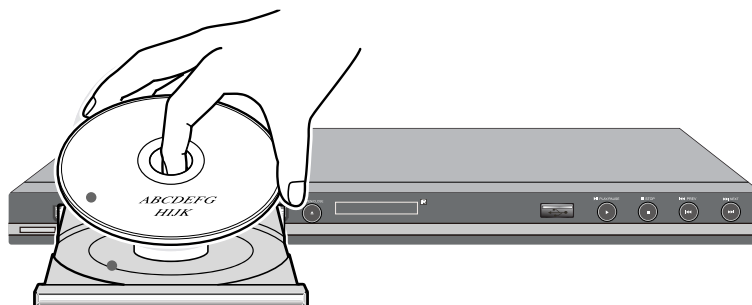


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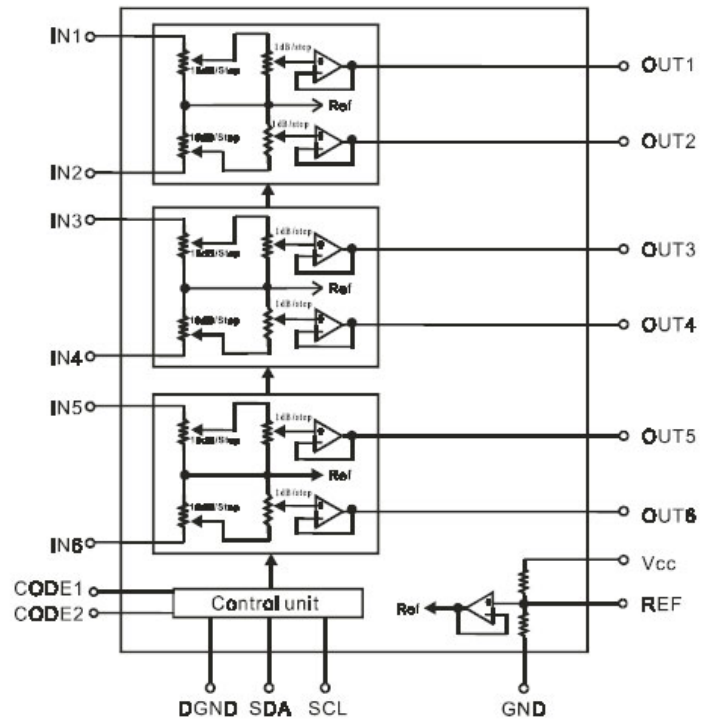
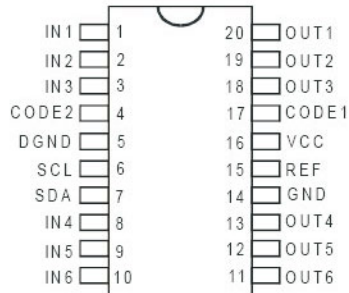
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• Activating the Firmware Upgrade

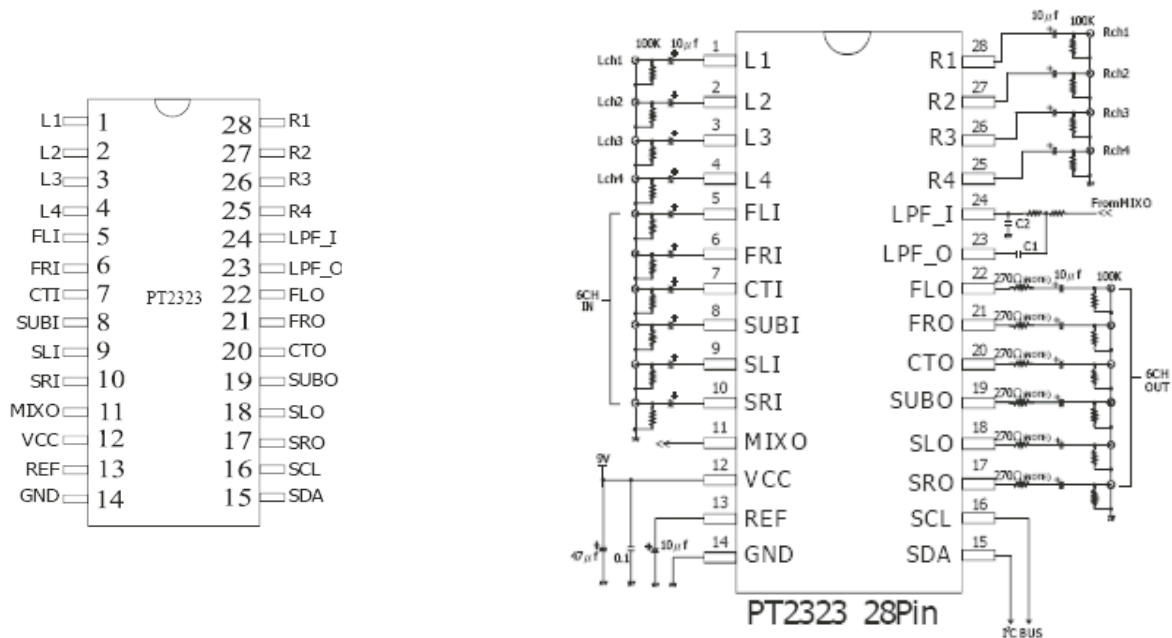
1. Open the Door of DVD Receiver.
2. Insert the Update Disc into the Disc Tray.
3. Close the Door, then DVD Receiver reads the disc, and Update the Firmware itself.



Pt2258



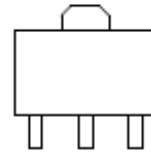
Pt2323



Internal Block Diagram of ICs

LM78L09

SOT-89 PKG

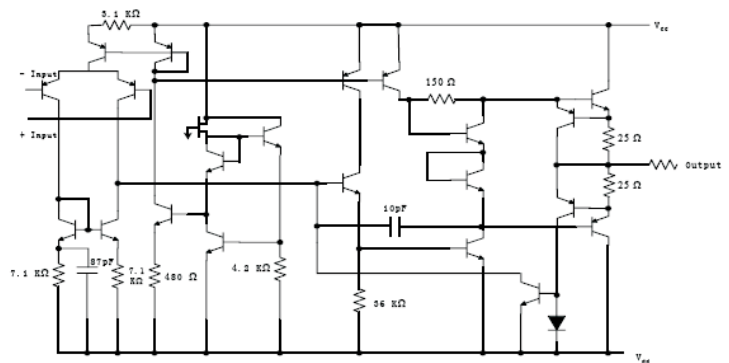
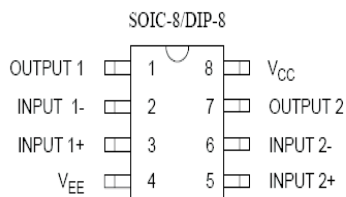


1. VOUT 2. GND 3. VIN

SOT-89

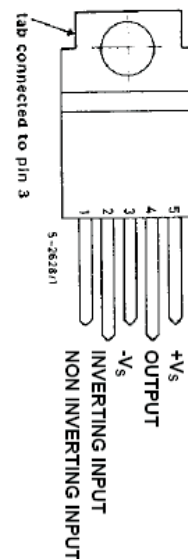
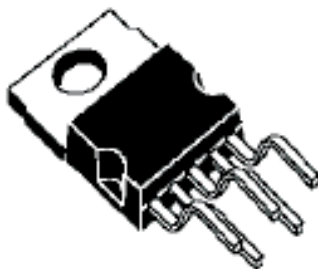
D4558

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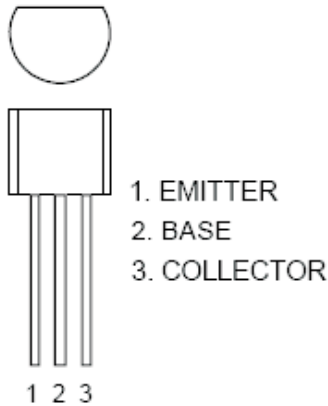
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TDA2030

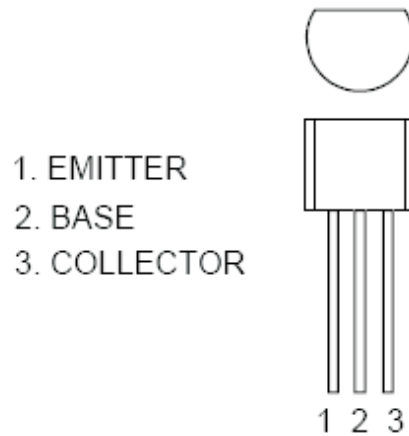


Internal Block Diagram of ICs

S8550



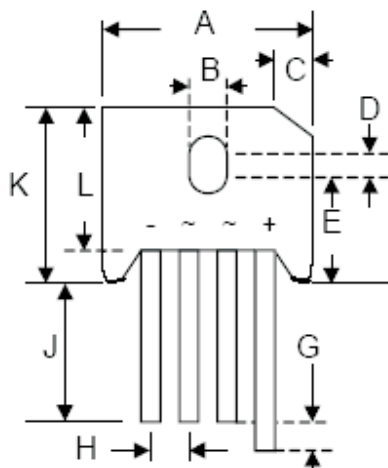
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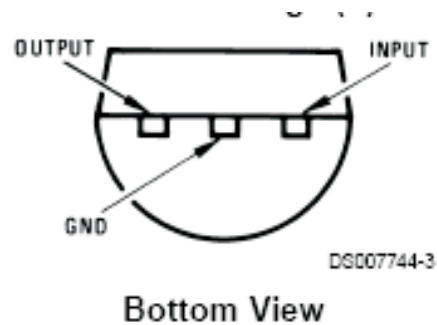
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KPU808

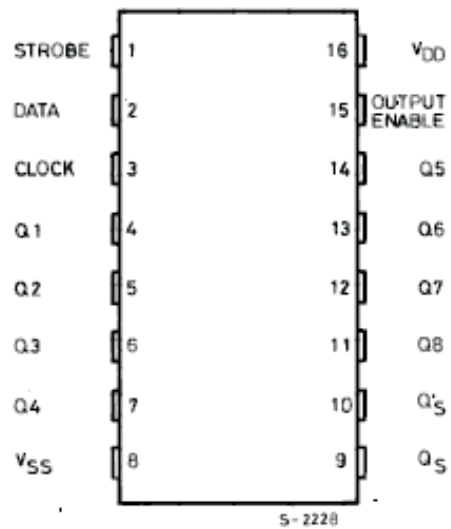


LM78L05



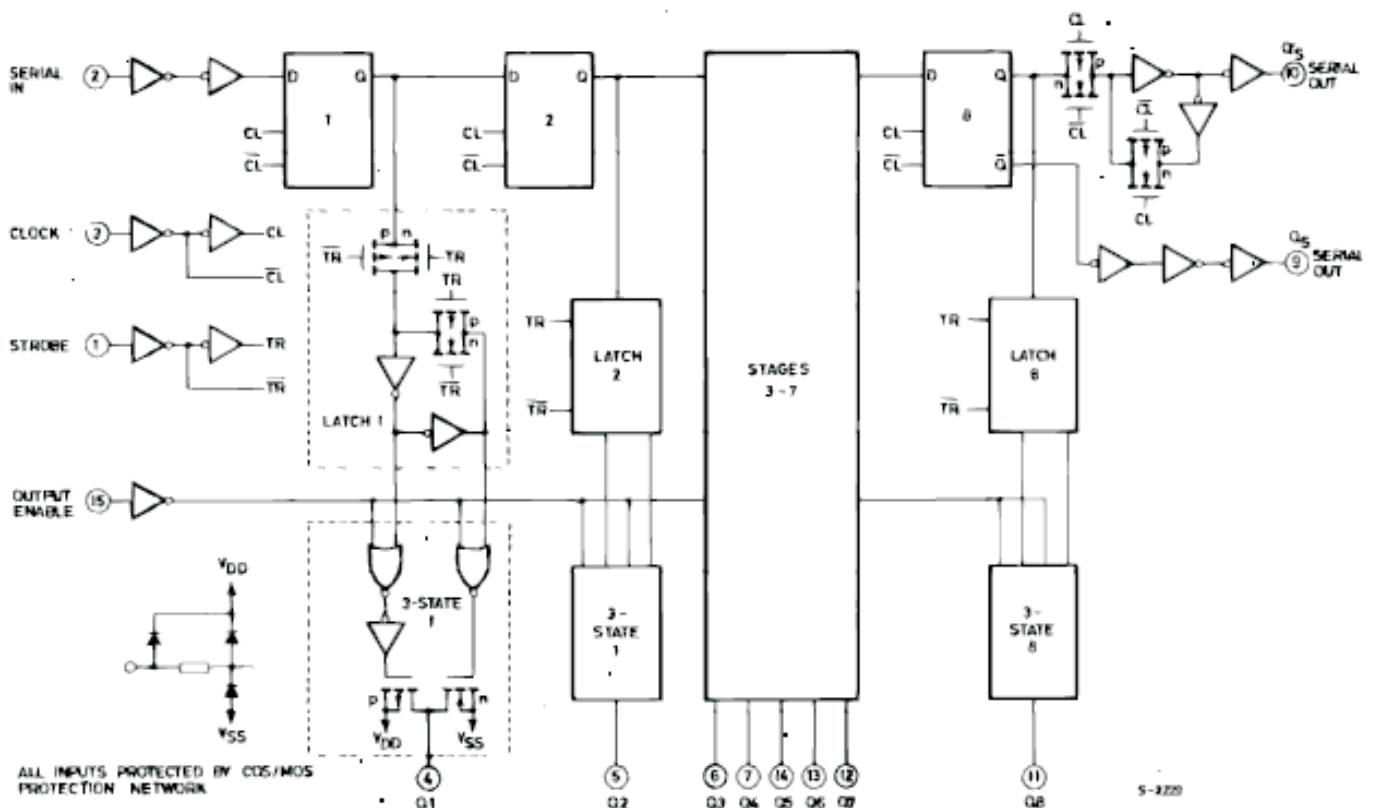
Internal Block Diagram of ICs

HCF4094M

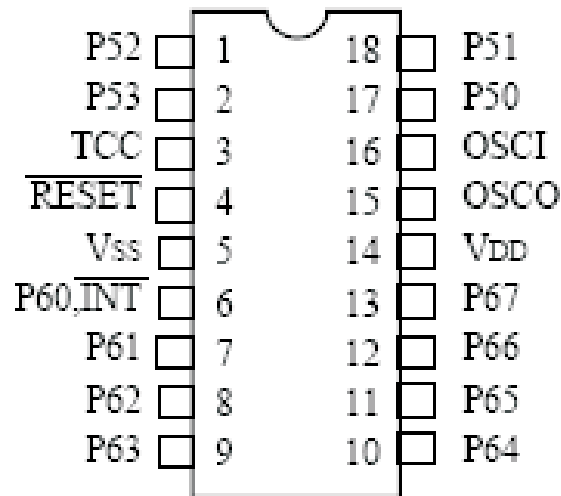


S-2228

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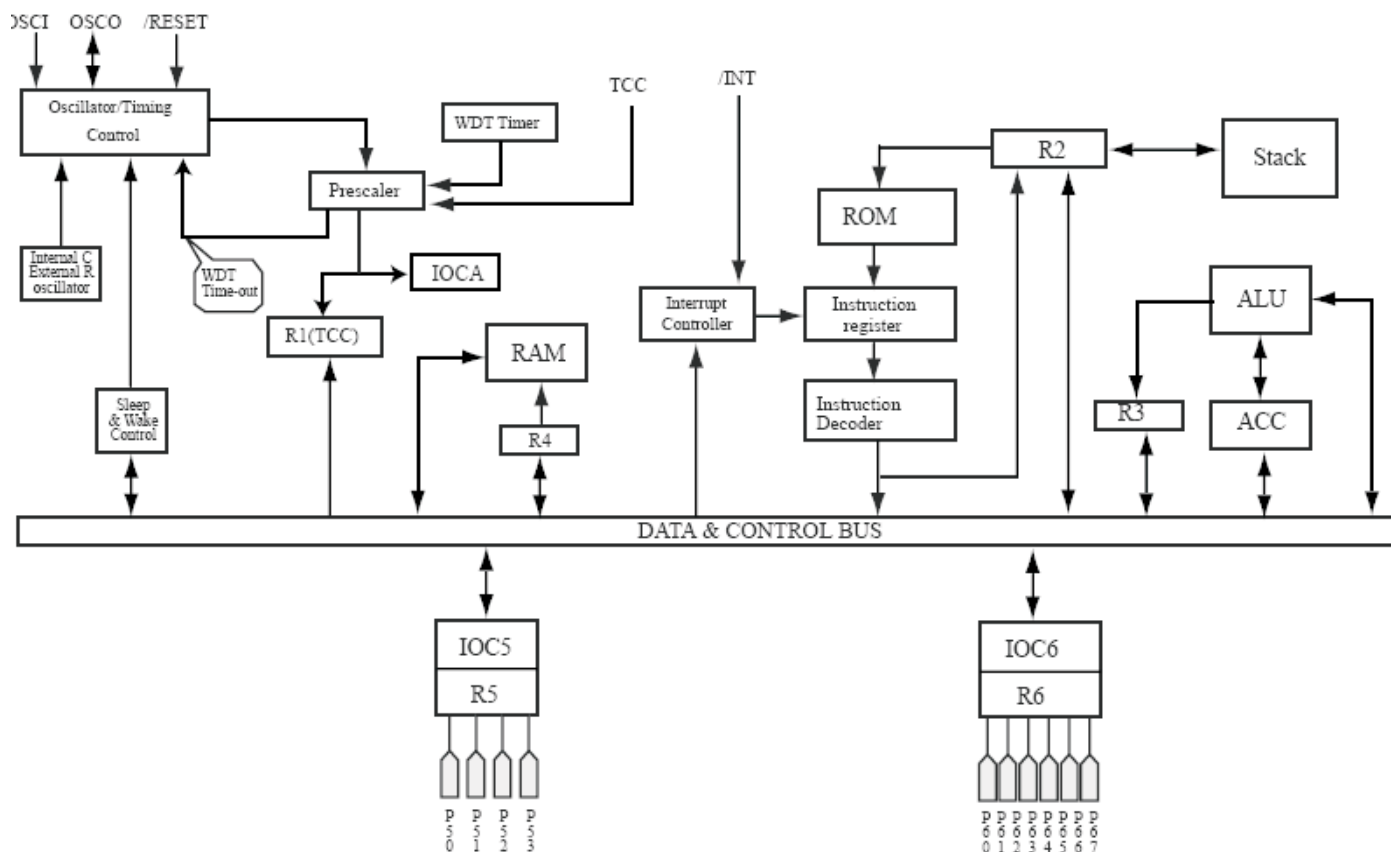


EM78P156



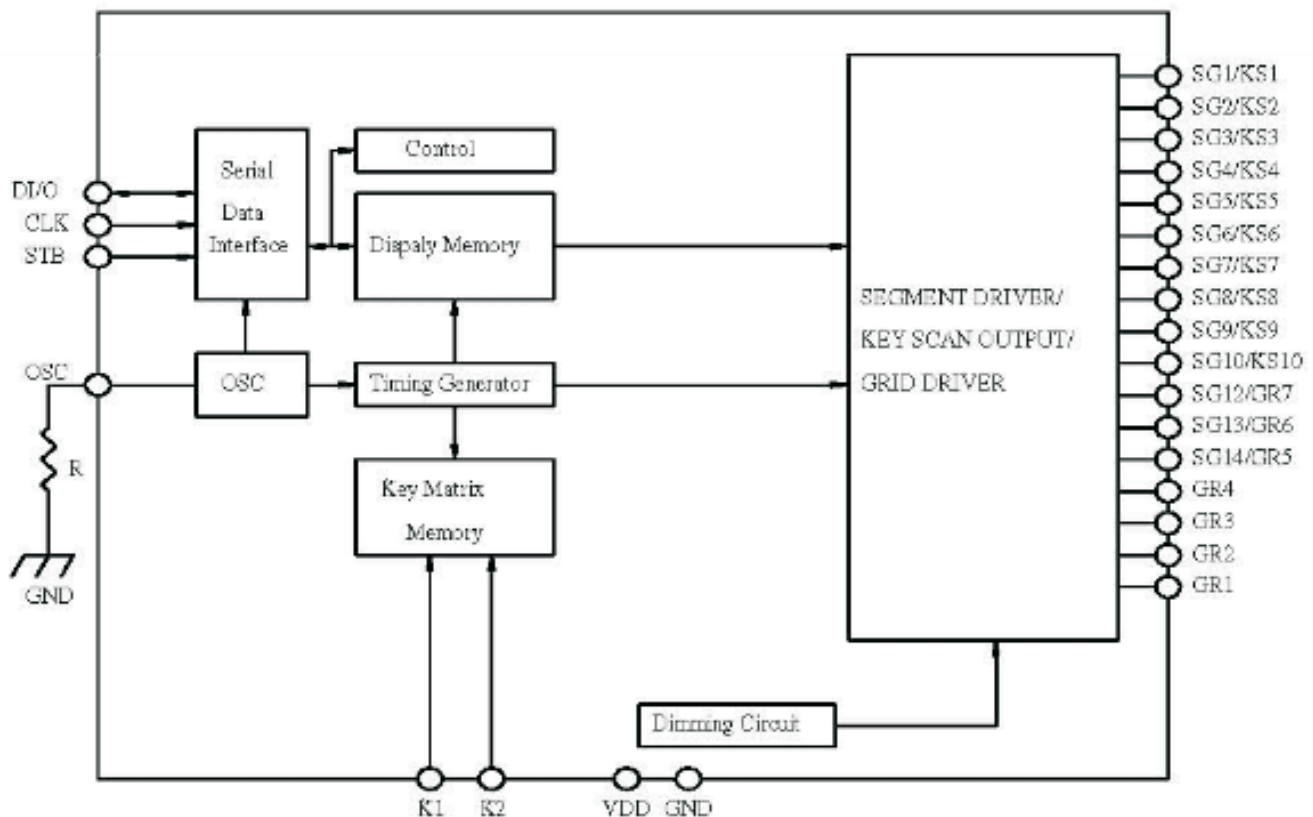
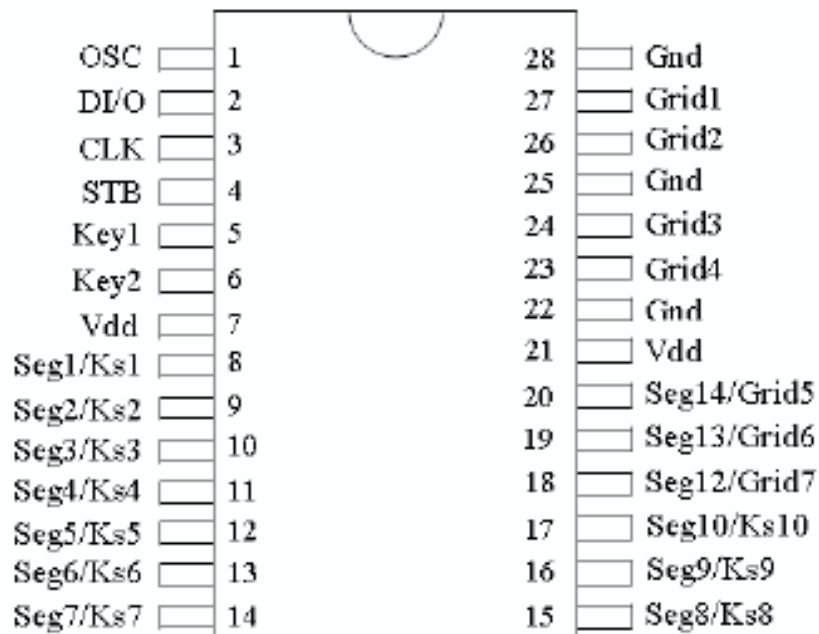
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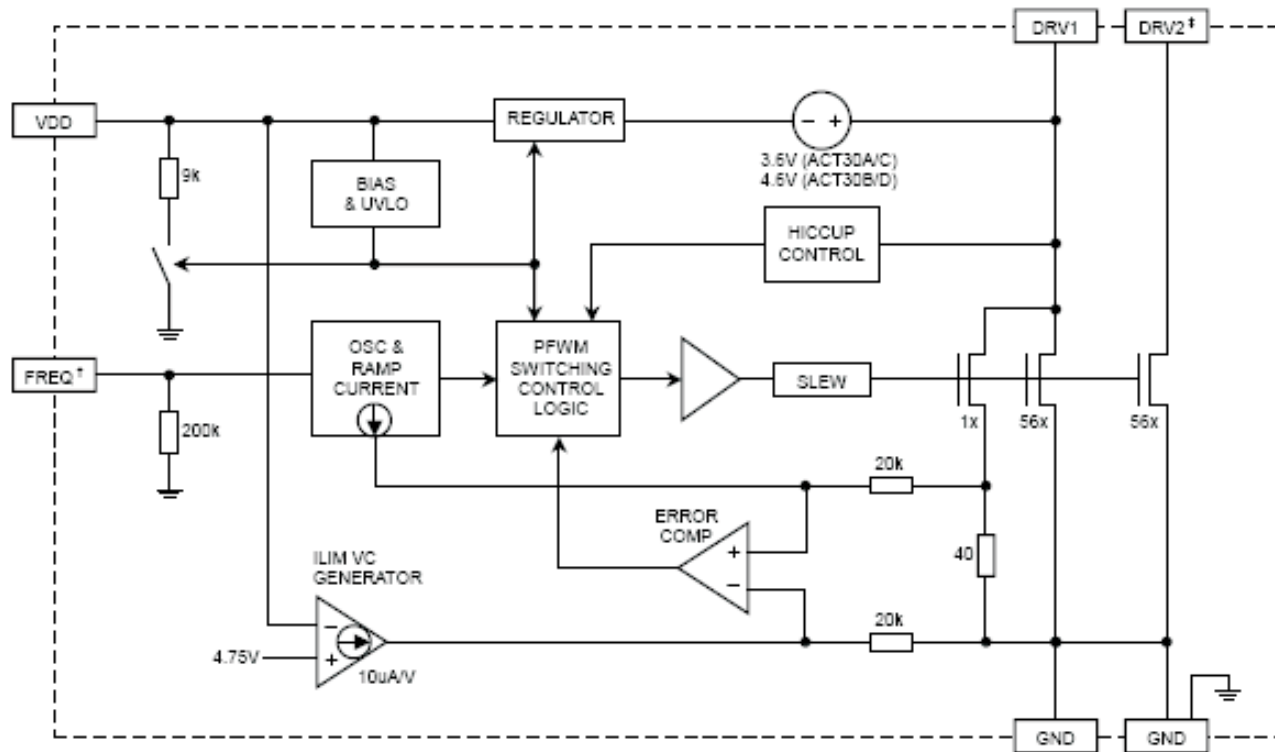
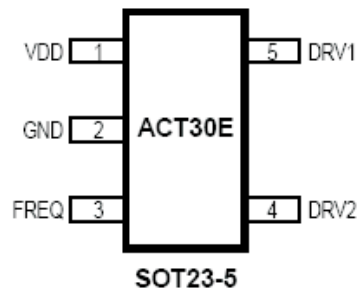
Internal Block Diagram of ICs

Sm1628

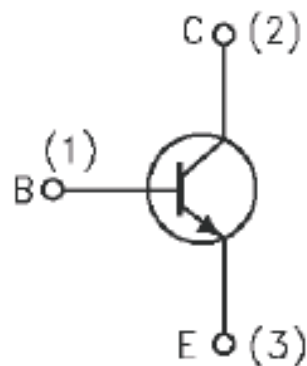
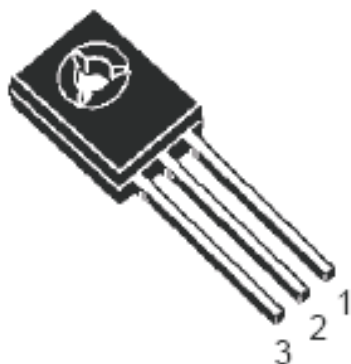


Internal Block Diagram of ICs

ACT30E

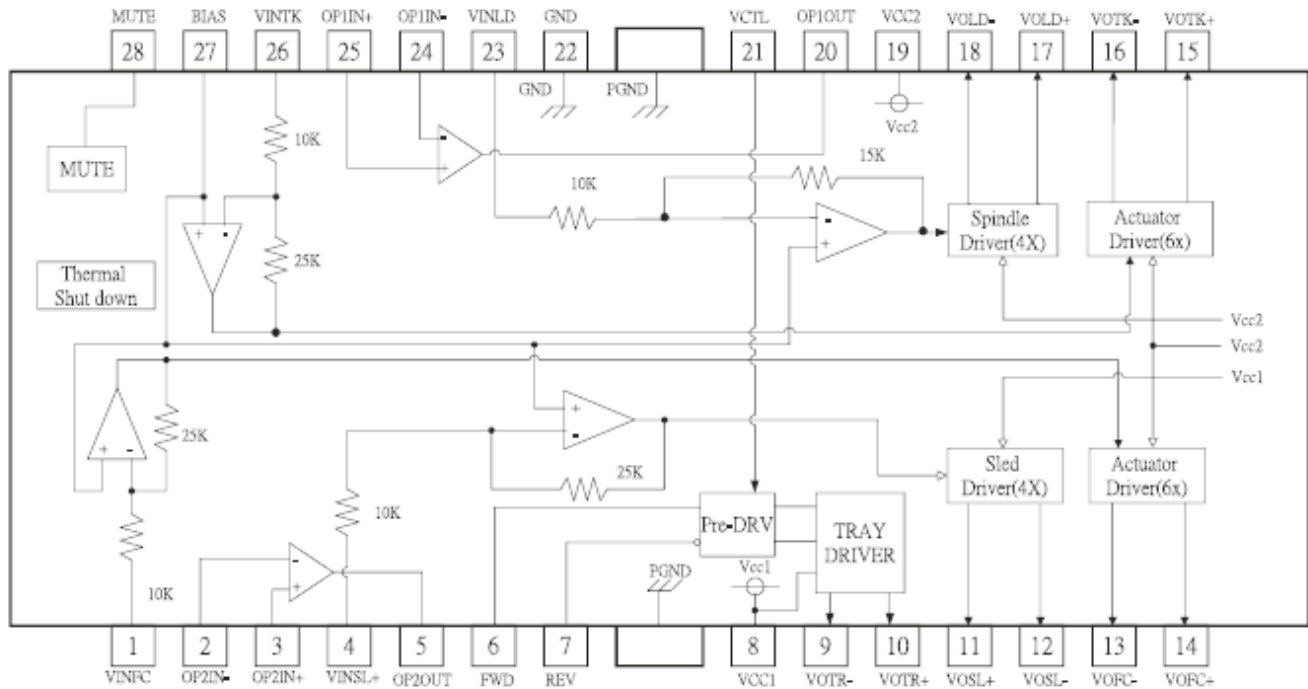


St13003

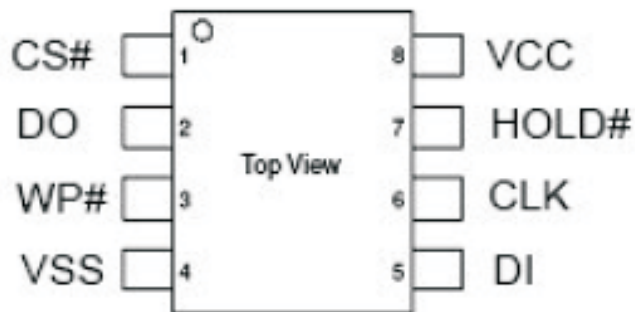


Internal Block Diagram of ICs

Cd5888

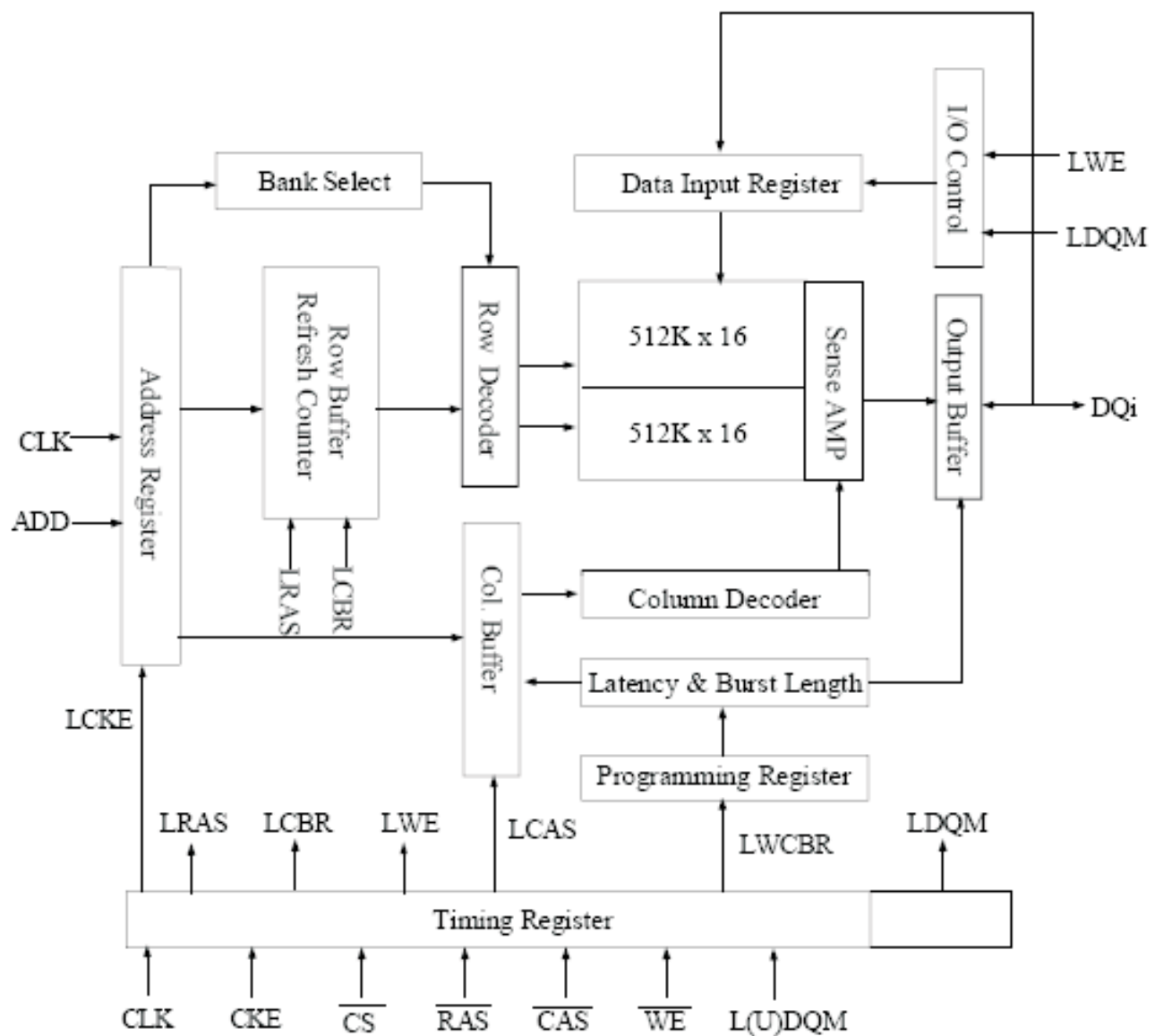
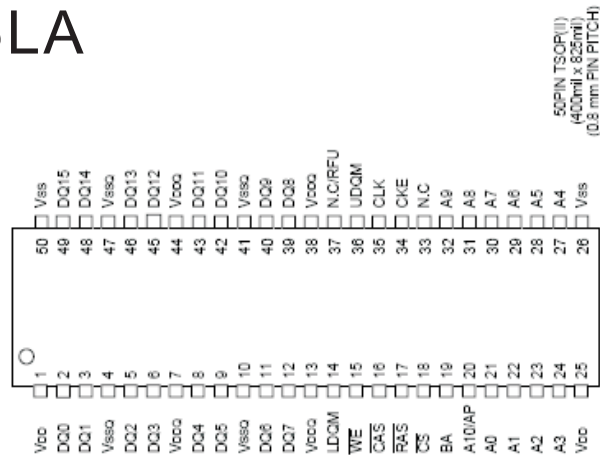


EN25T80

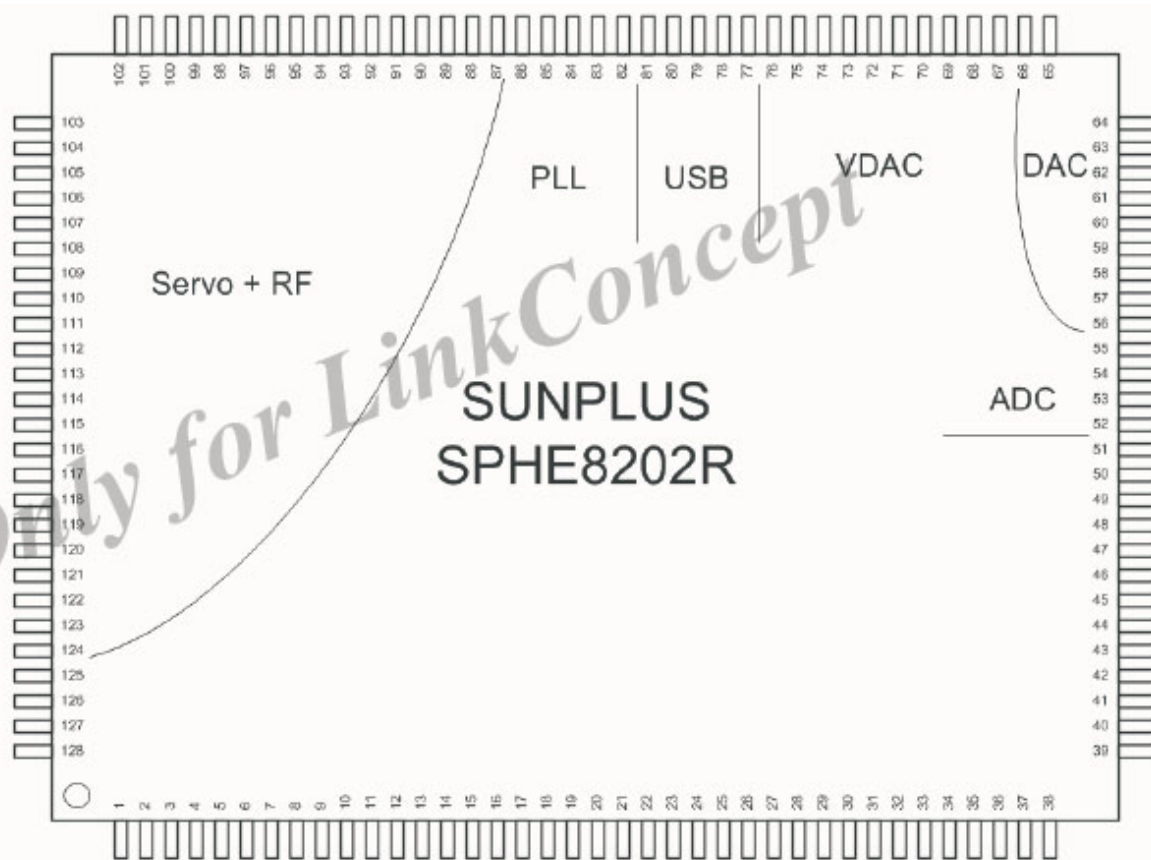
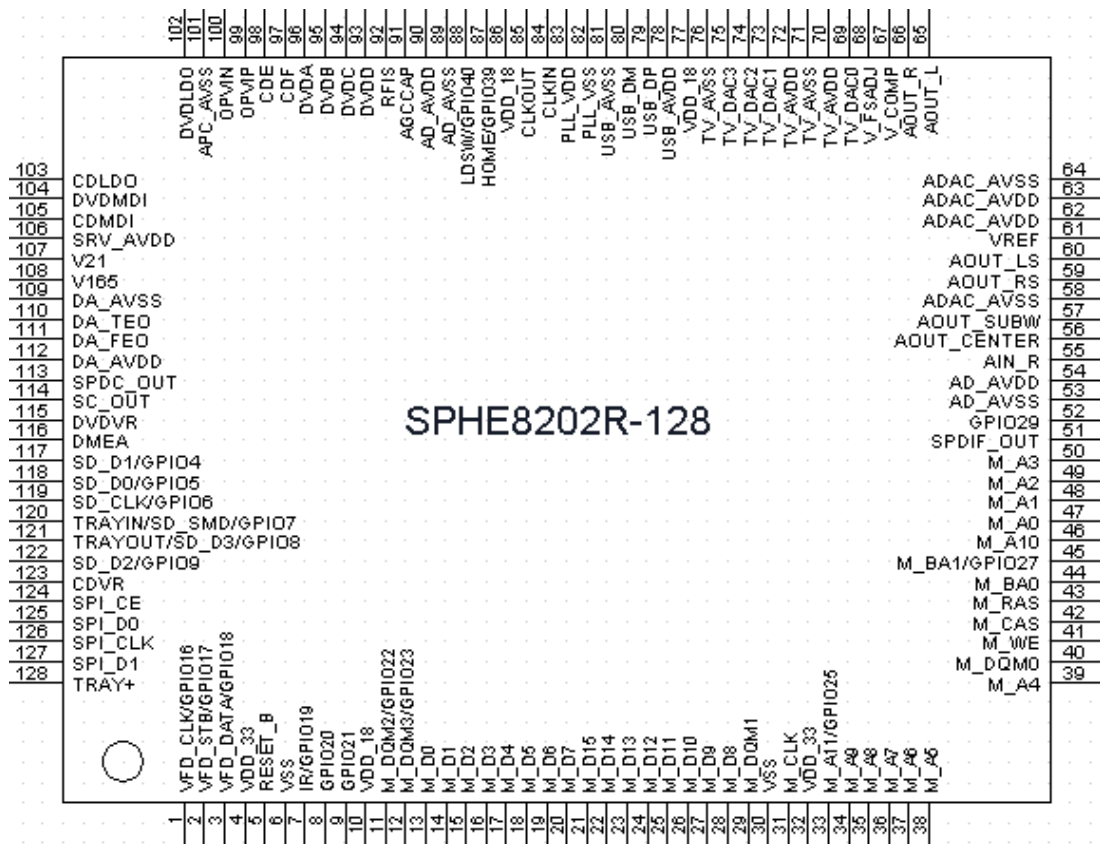


Internal Block Diagram of ICs

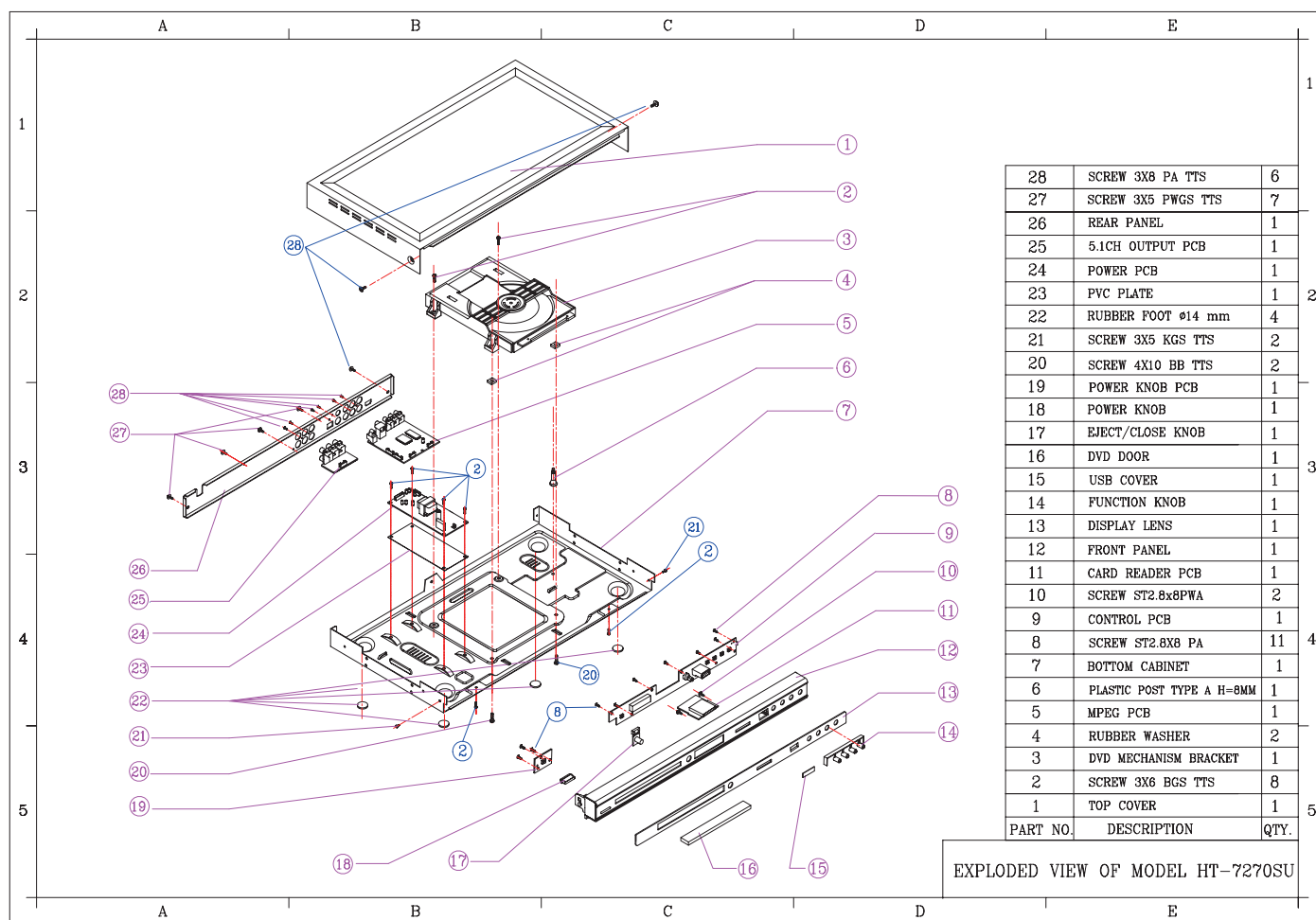
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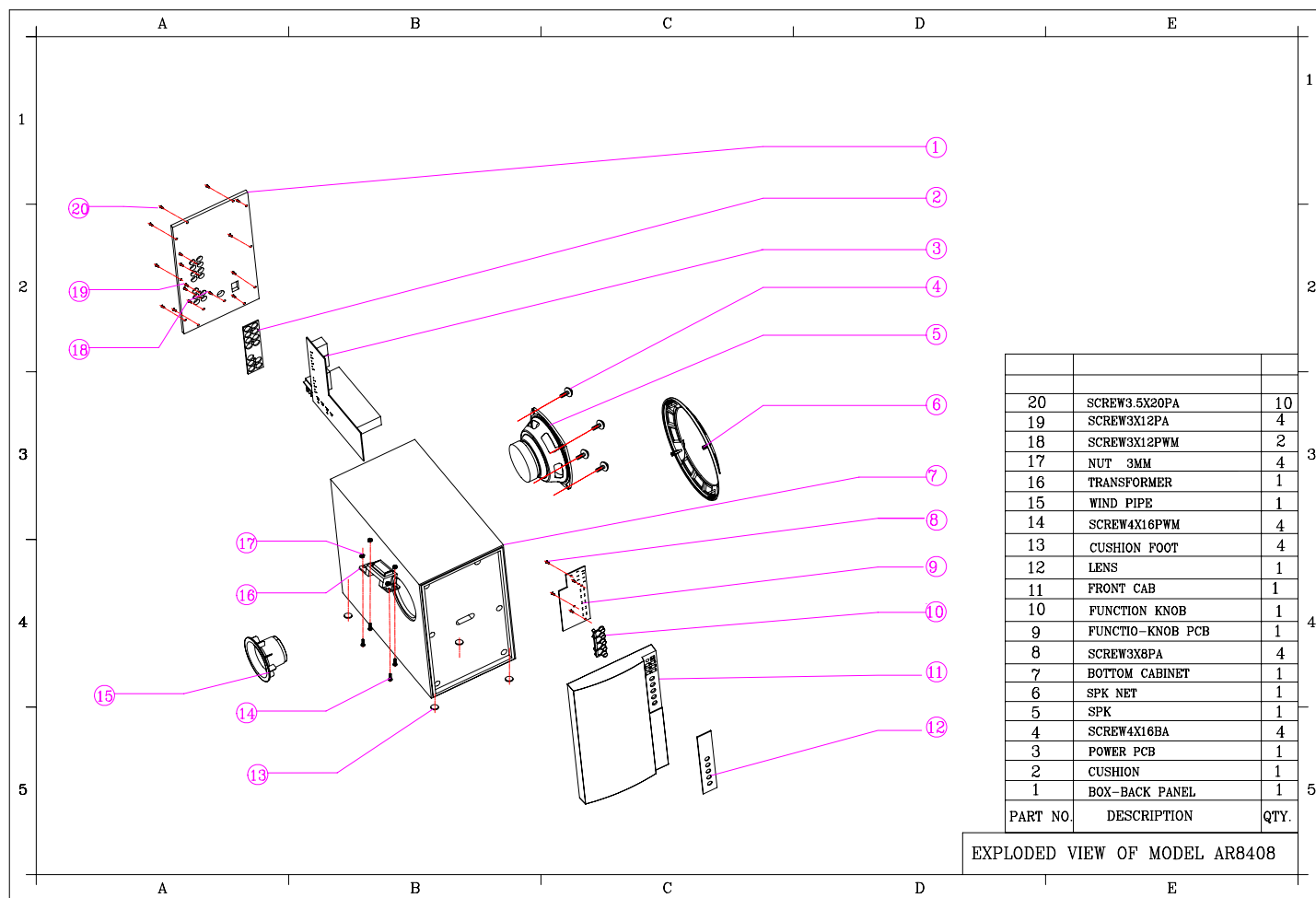
Internal Block Diagram of ICs



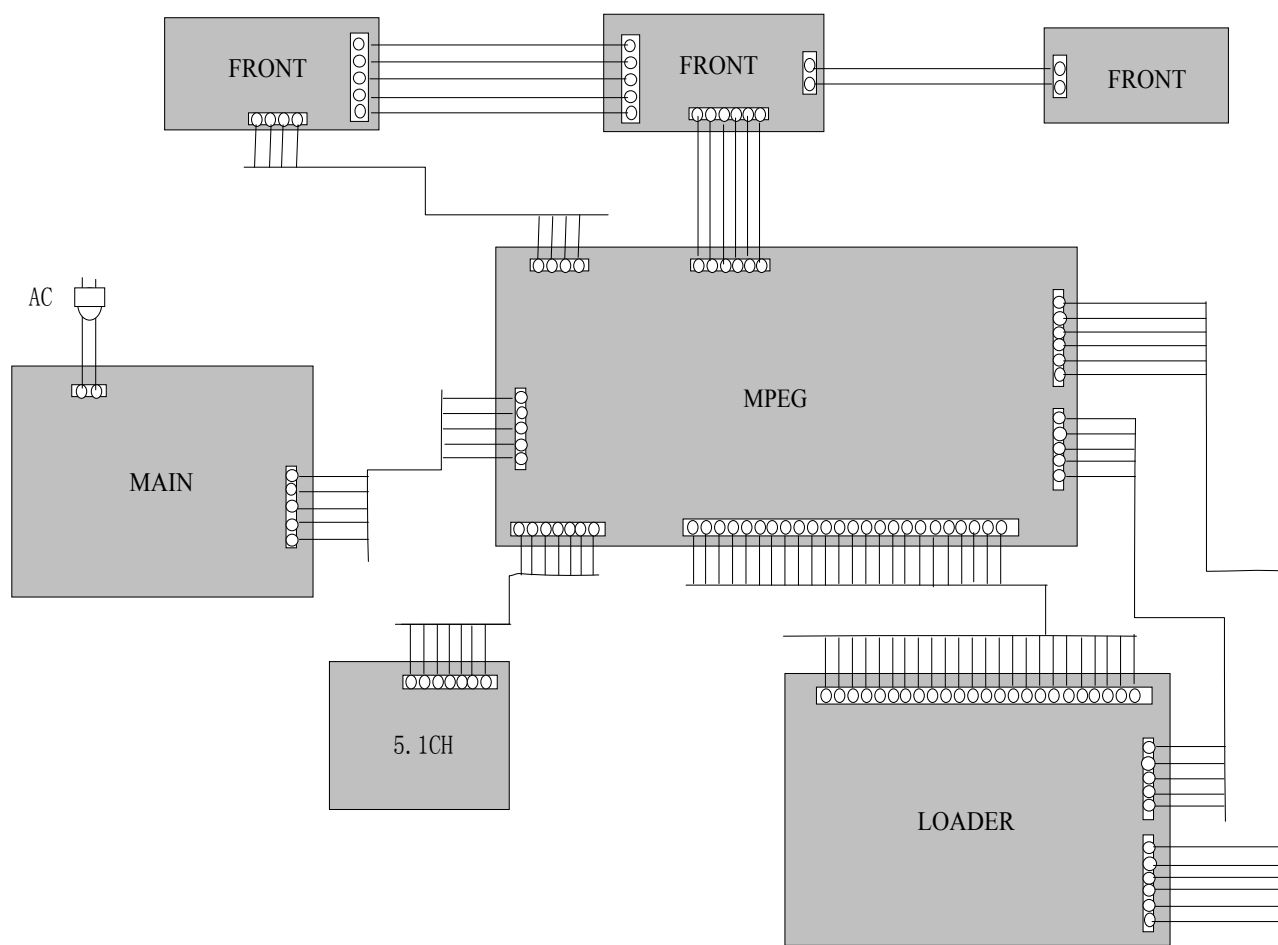
Exploded View and Mechanical Parts List



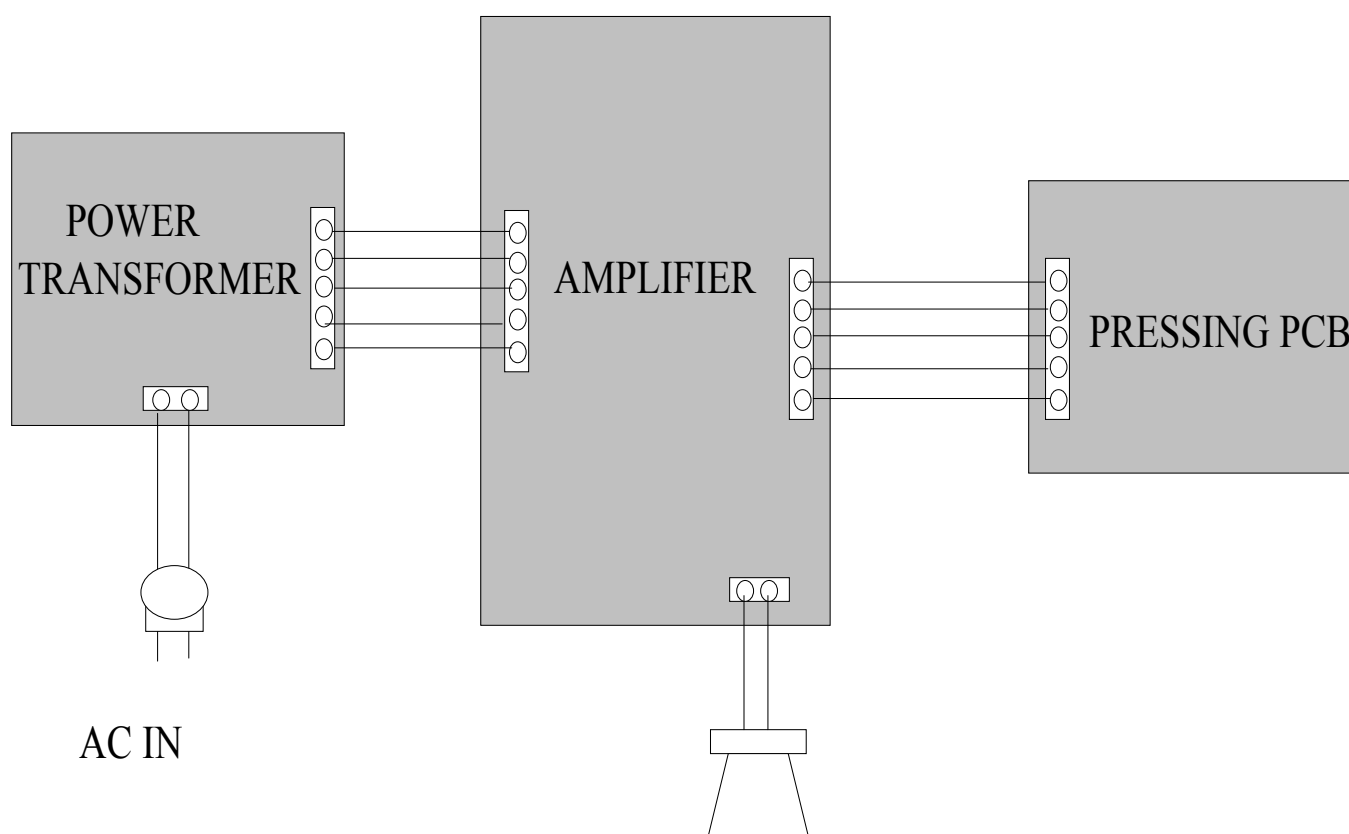
Exploded View and Mechanical Parts List



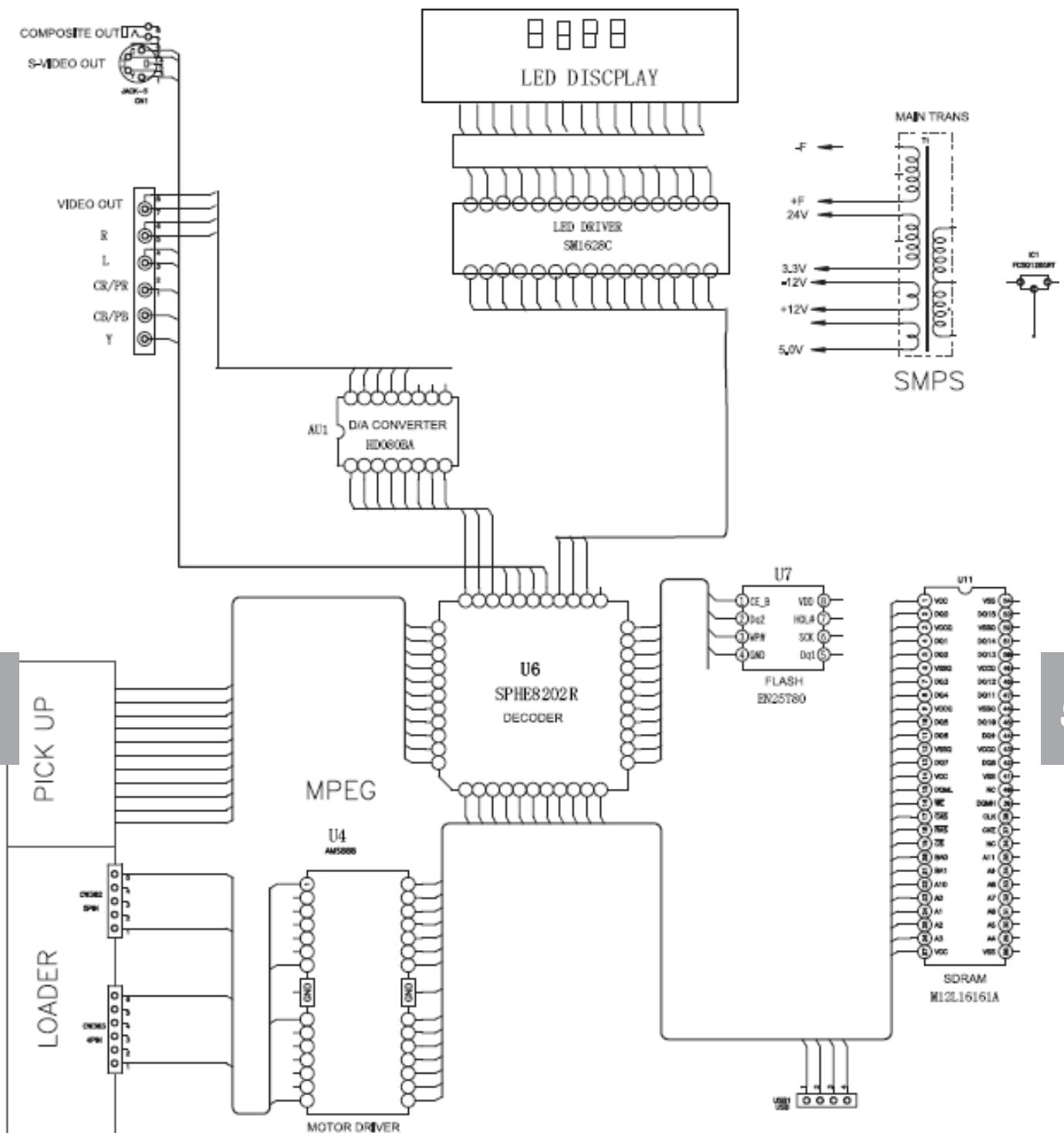
Wiring Diagram

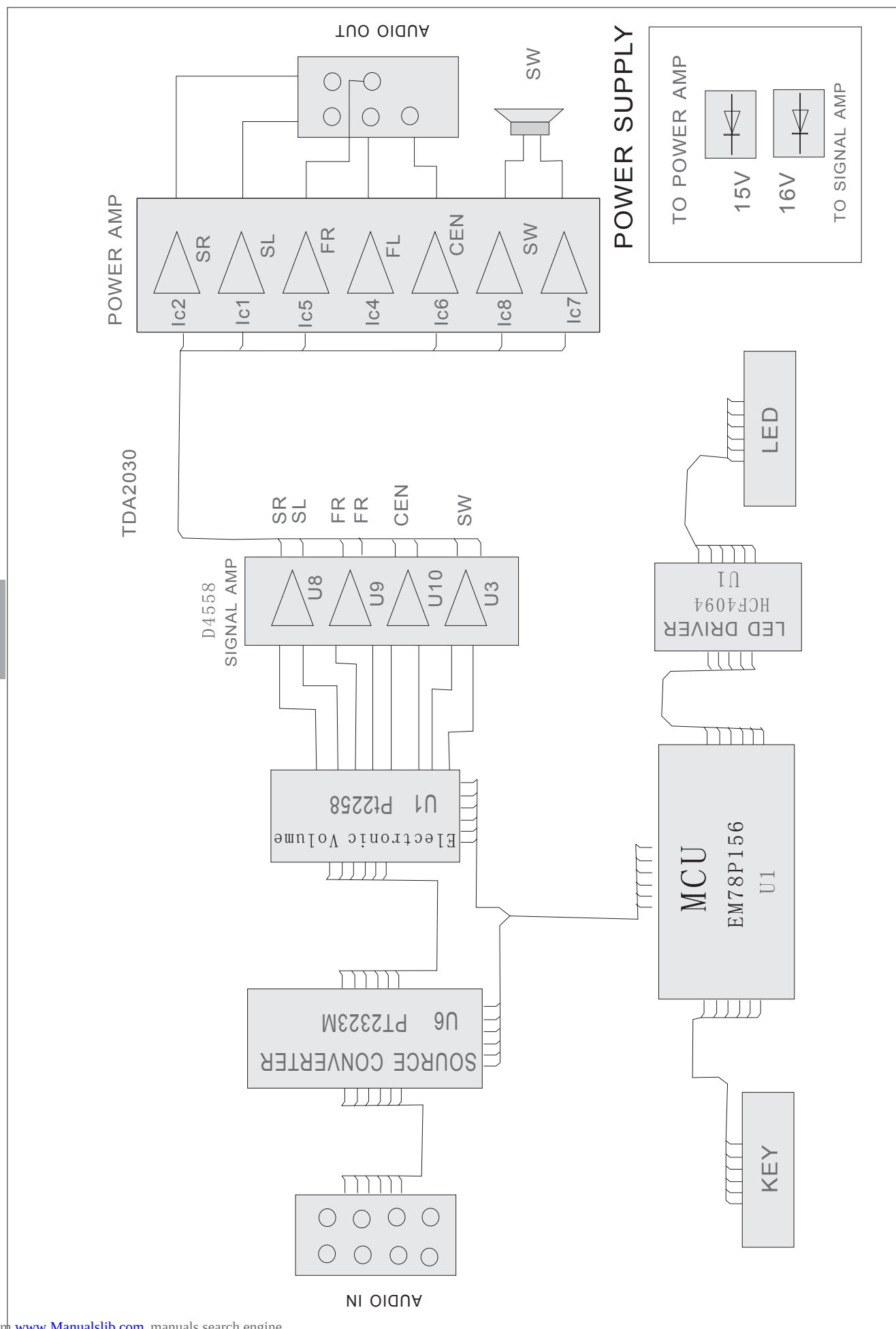


Wiring Diagram

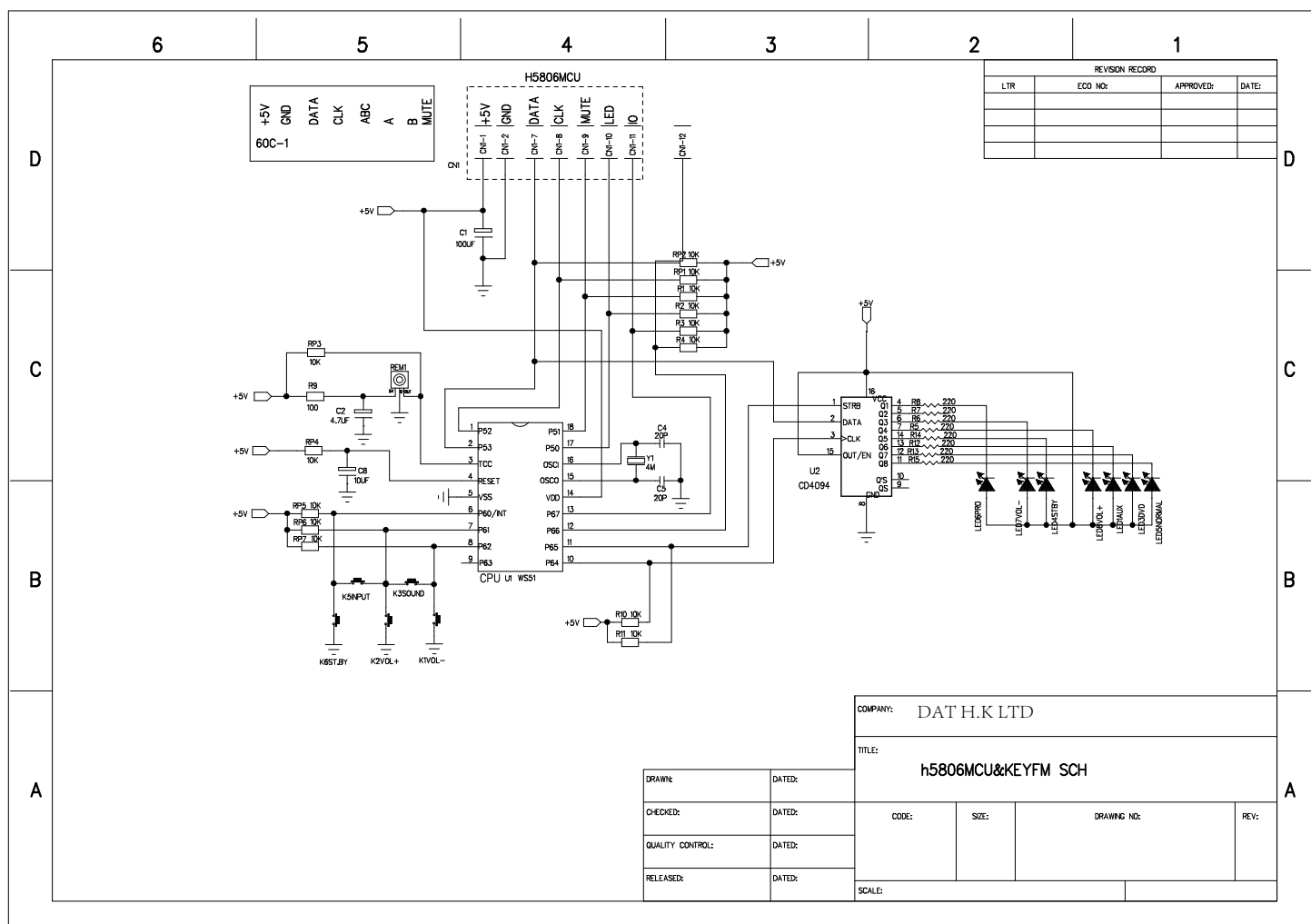


Block Diagram

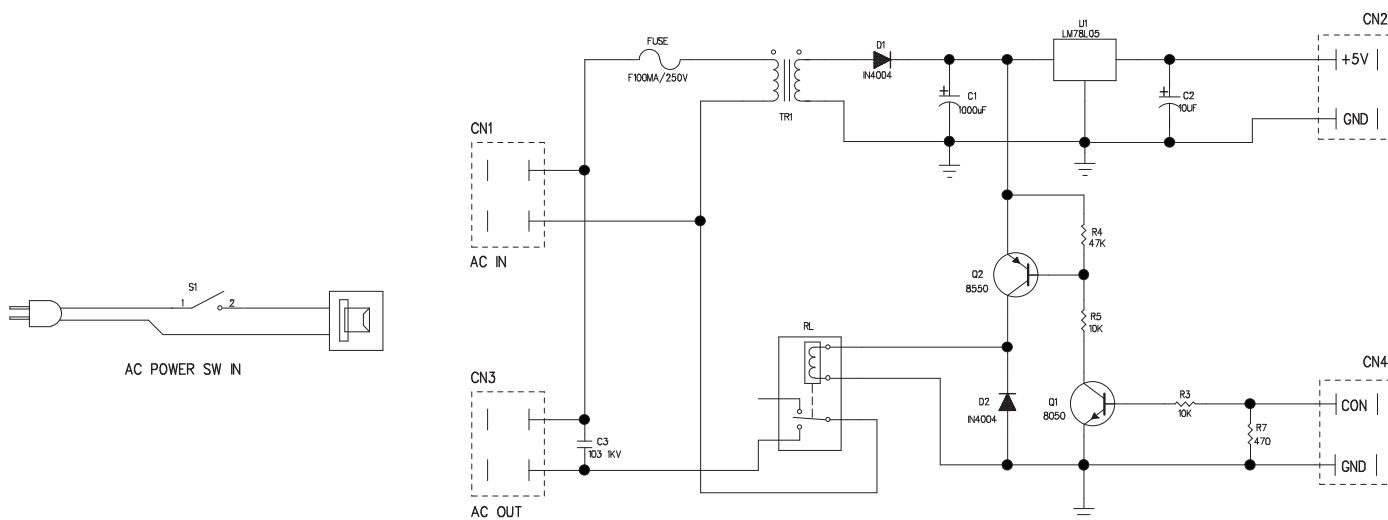




SCHEMATIC DIAGRAM



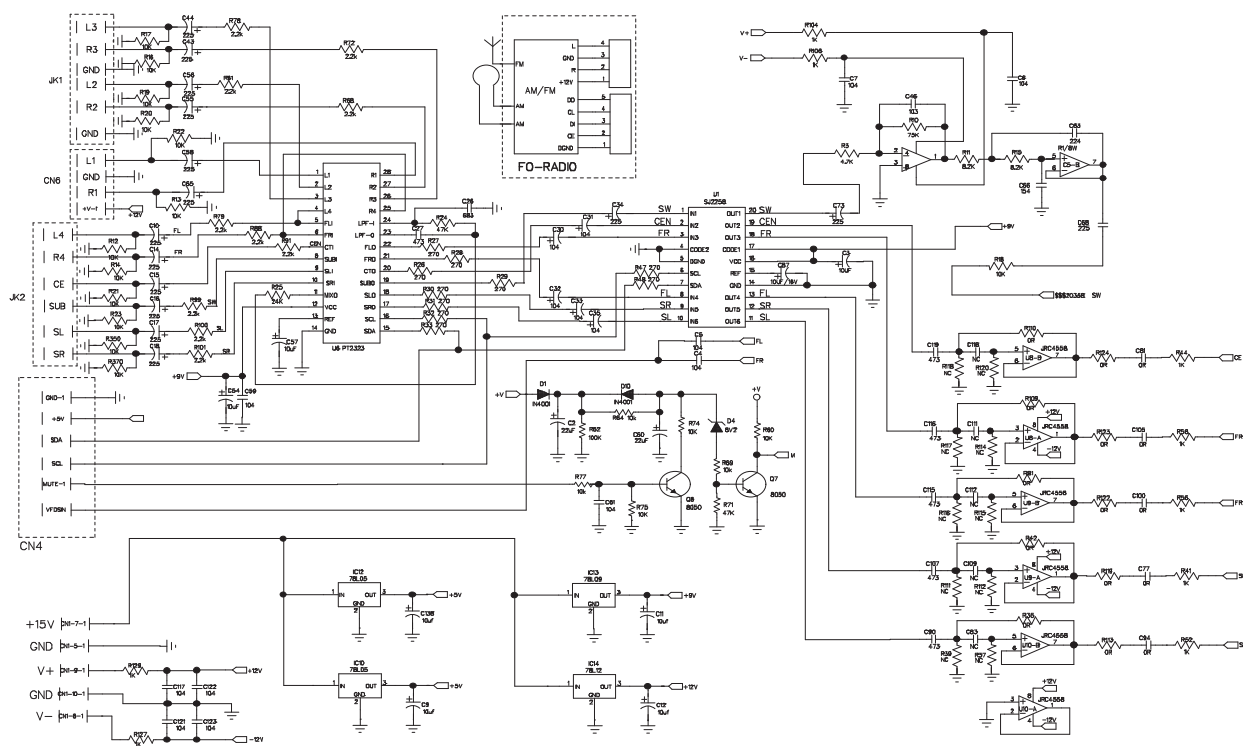
SCHEMATIC DIAGRAM

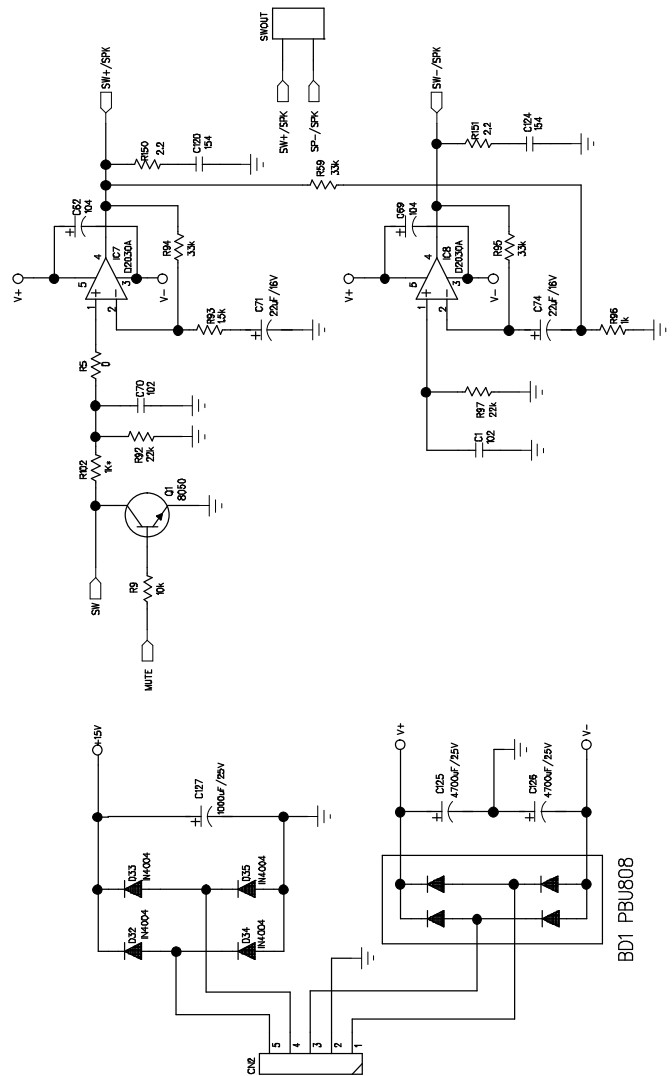
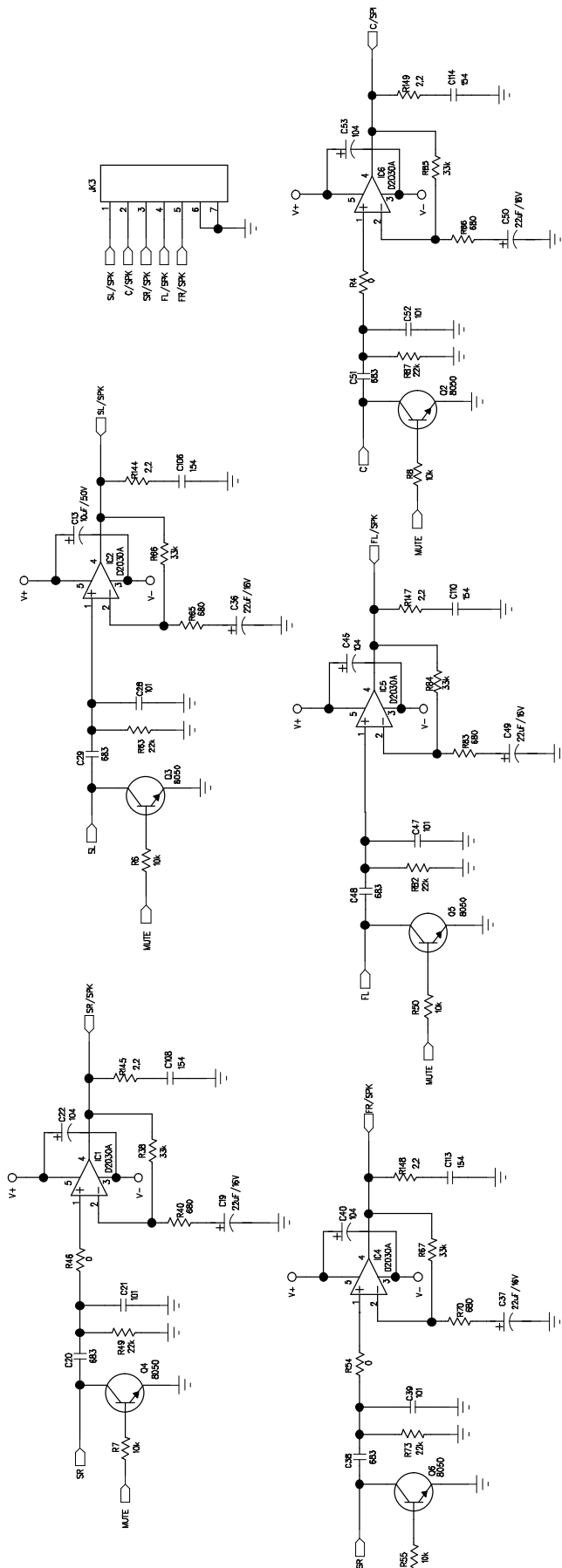


DAT.H.K LTD

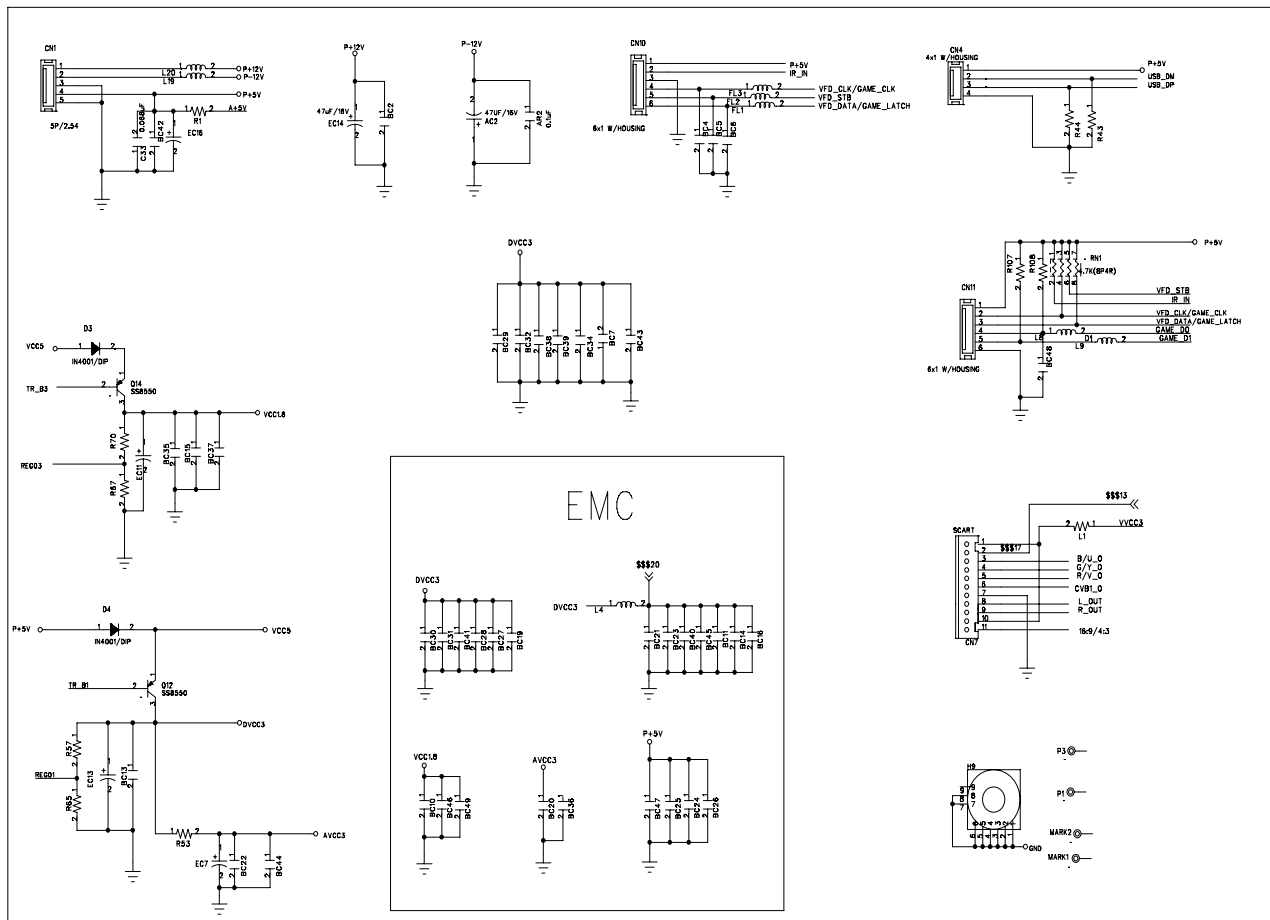
AMP POWER SUPPLY

SCHEMATIC DIAGRAM

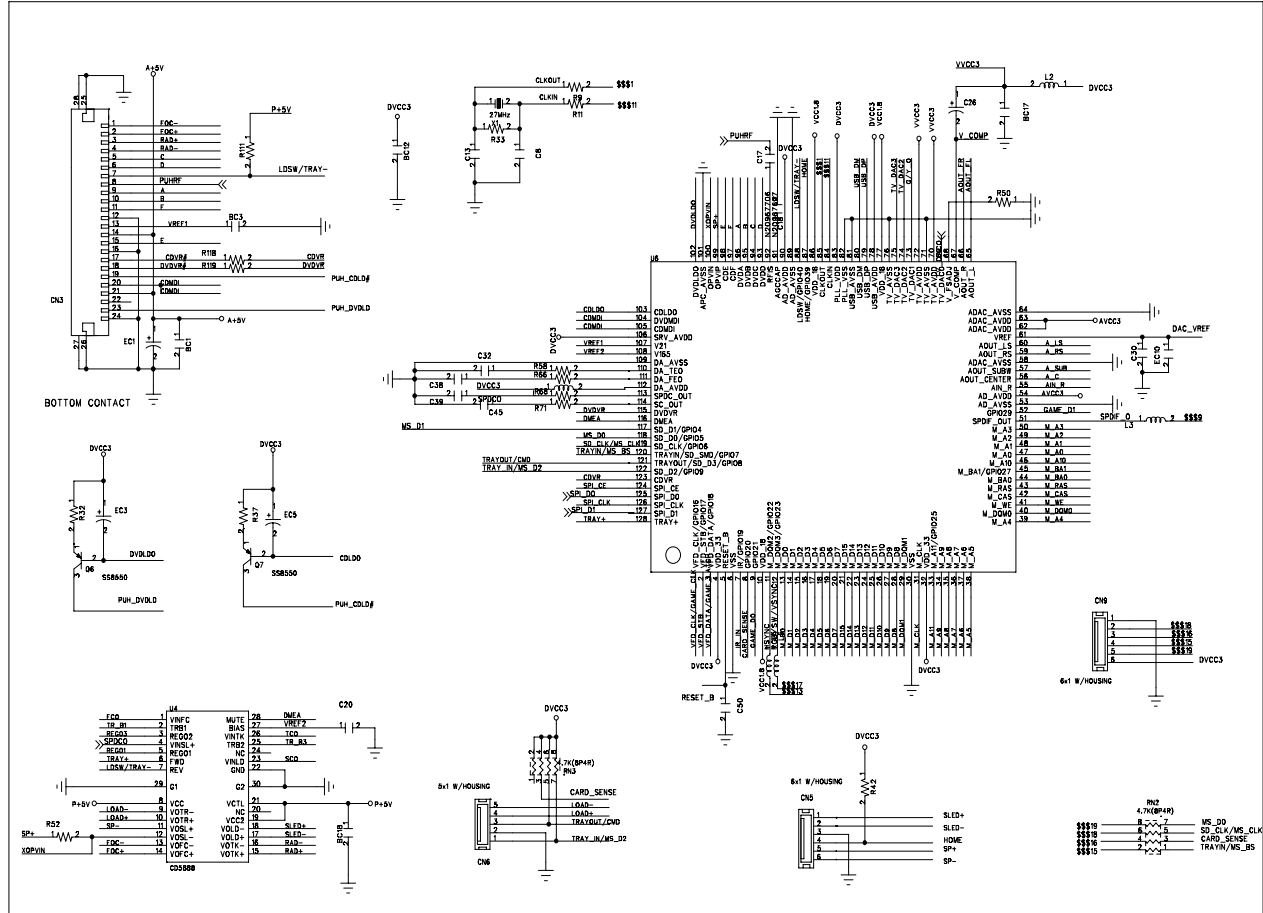




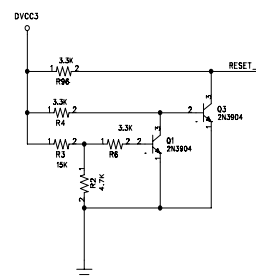
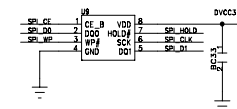
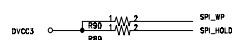
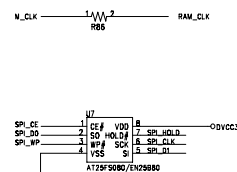
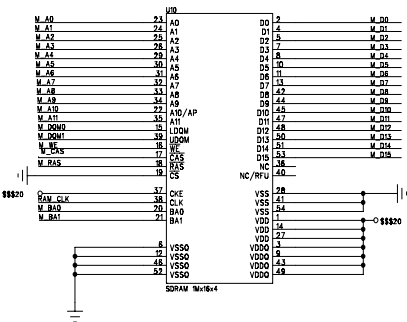
SCHEMATIC DIAGRAM



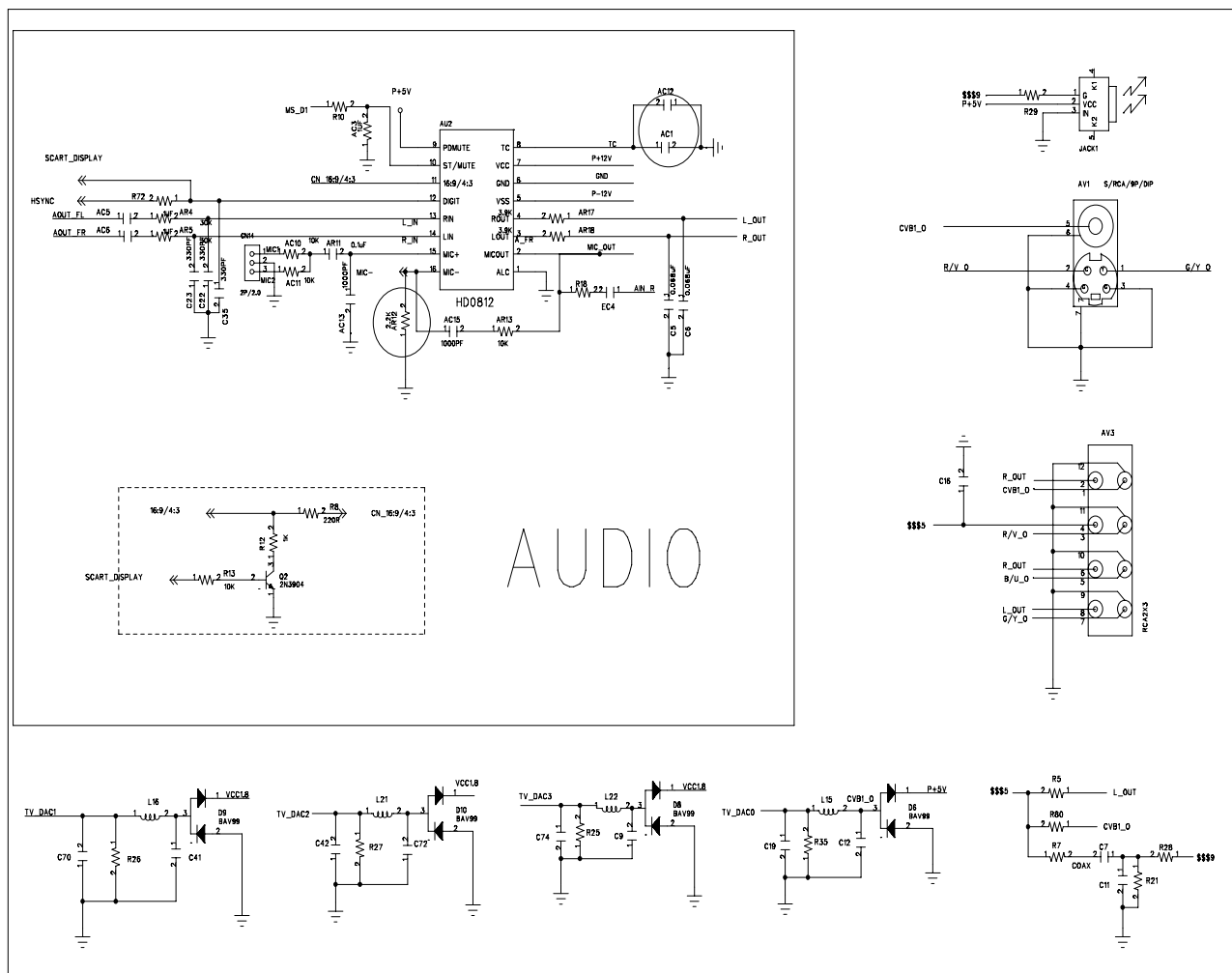
SCHEMATIC DIAGRAM



SCHEMATIC DIAGRAM



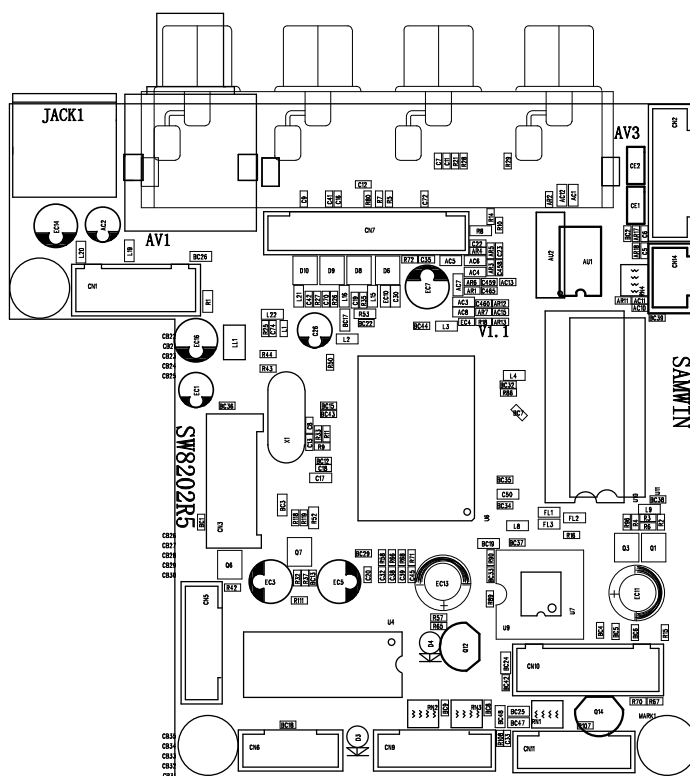
SCHEMATIC DIAGRAM



P.C.B Pattern Layout

●MPEG

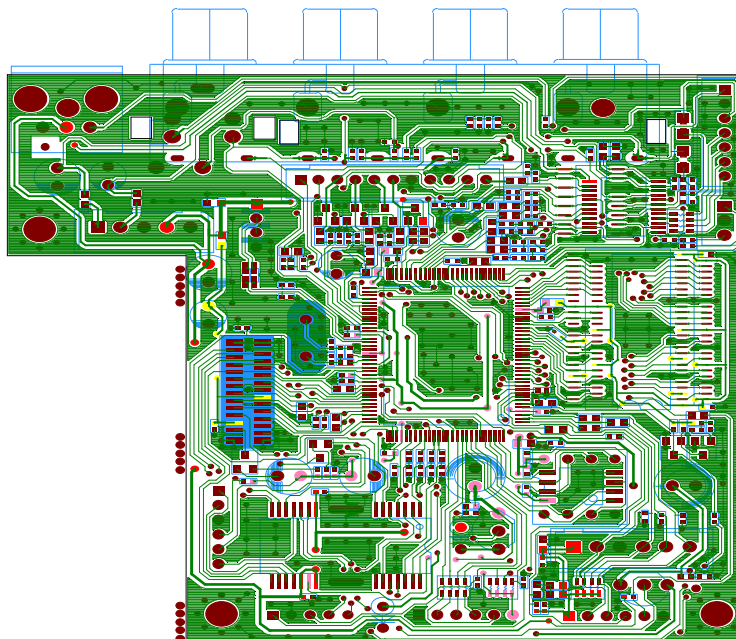
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P.C.B Pattern Layout

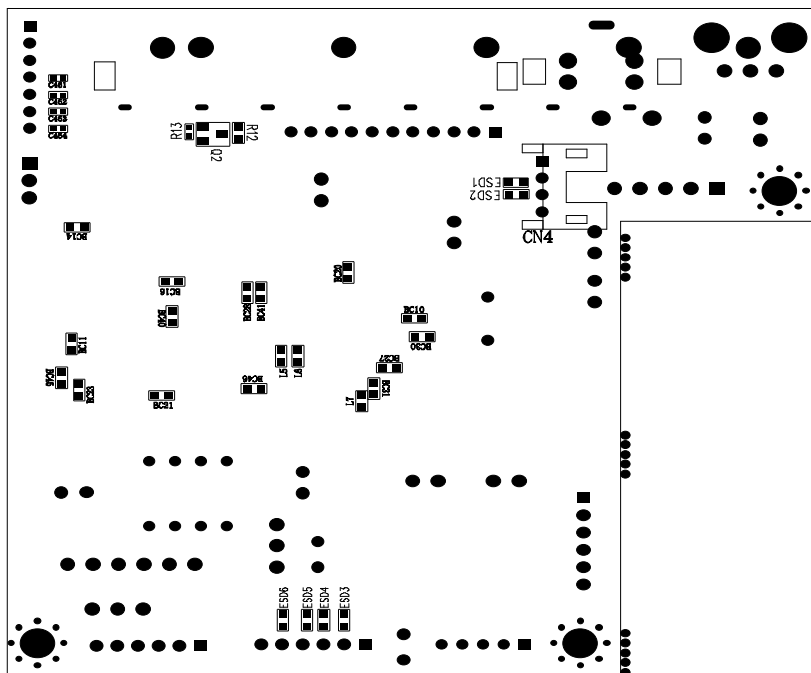
- MPEG

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● MPEG

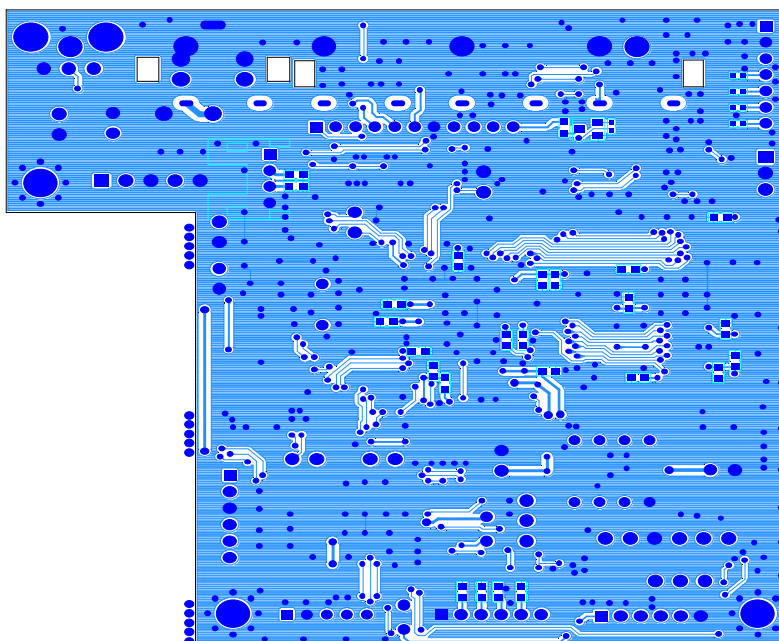
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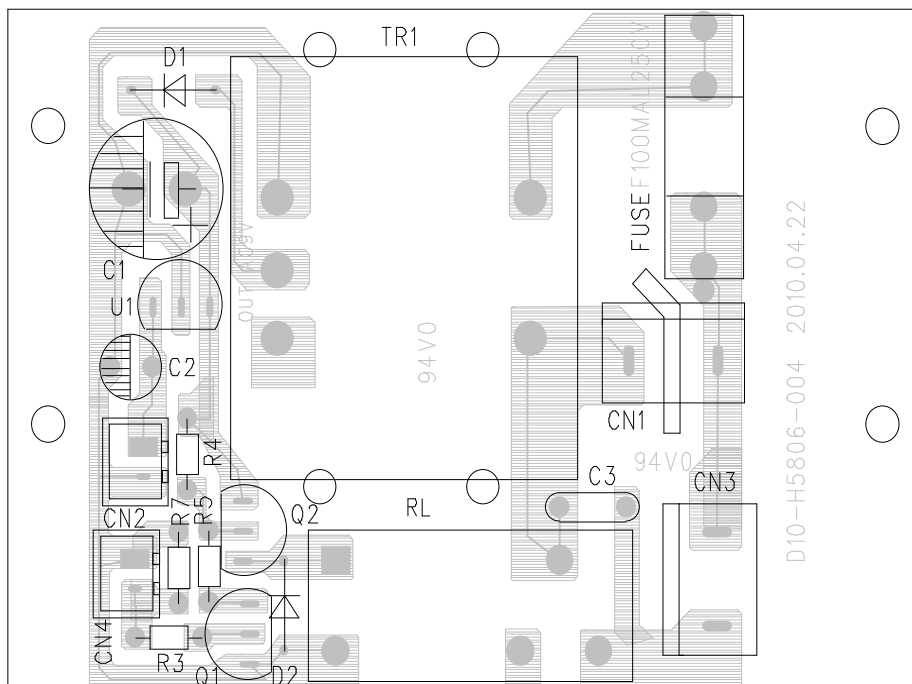
P.C.B Pattern Layout

● MPEG

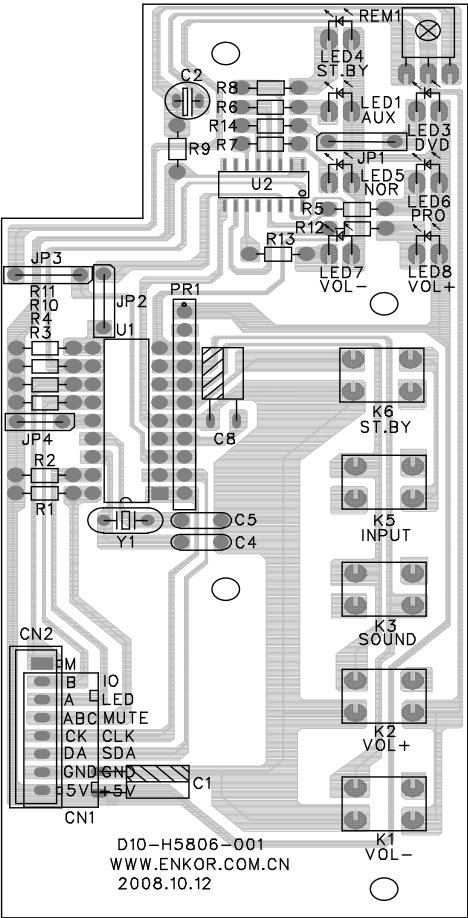
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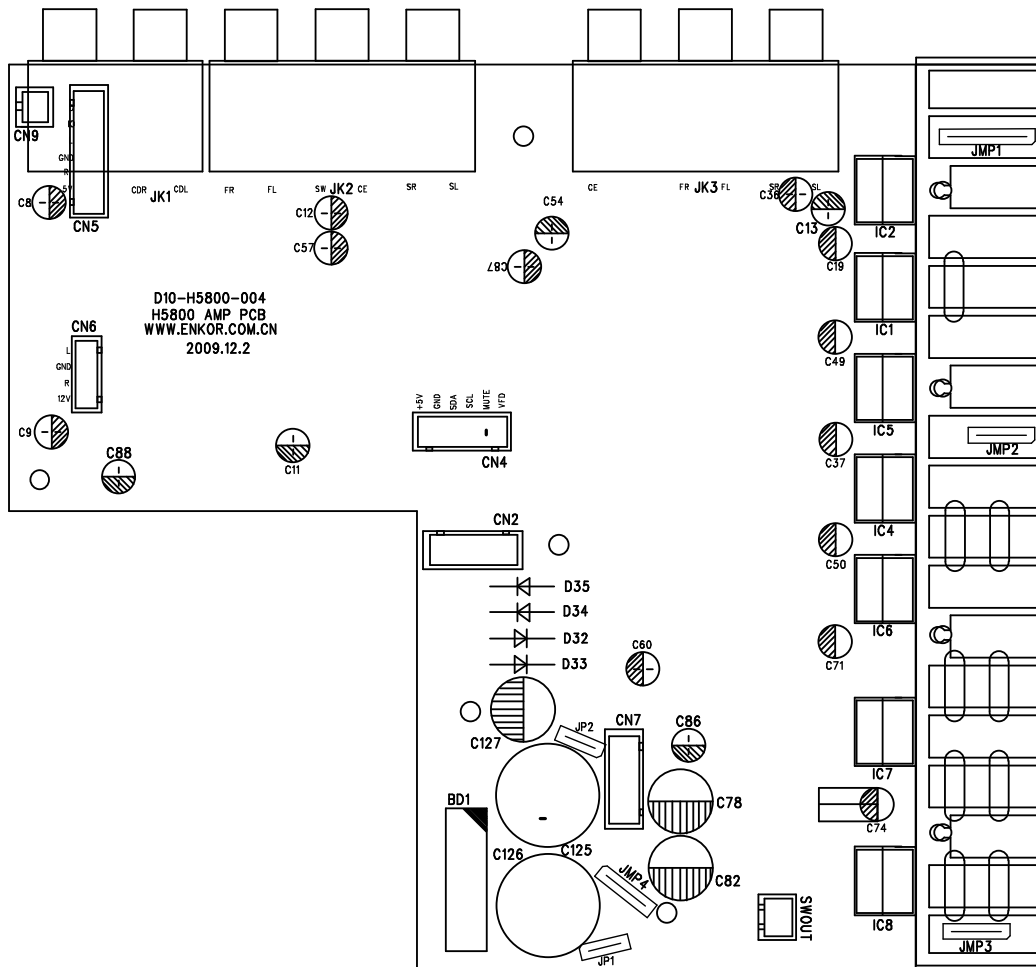
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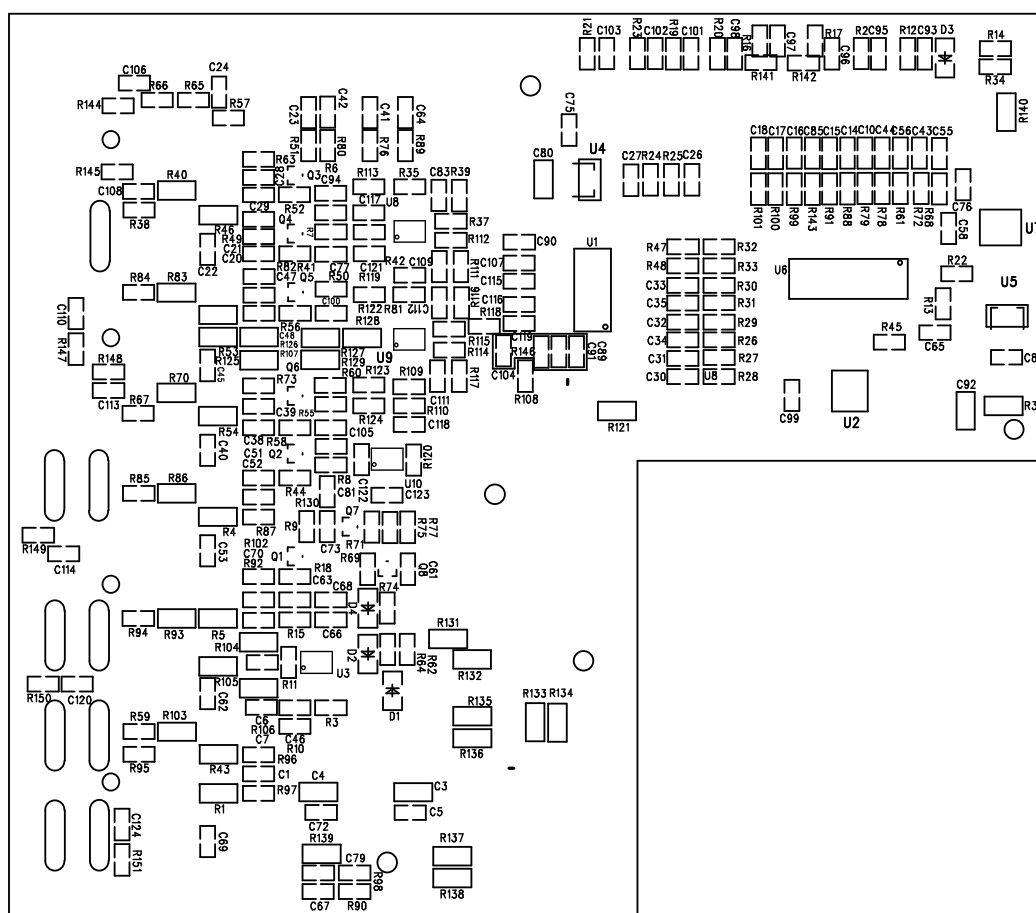
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< AMP TOP SILKSCREEN >



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APPENDIX - ELECTRICAL PART LIST

HC-7210SU DVD HOME THEATRE BOM LIST

2012-10-10

ASS'Y	LEVEL	SEQ	LOC	PART CODE	PART NAME	PART DESC	Q'TY
MPEG	1	1	11000	53-3802RDA3-A0	PCB MPEG ASSY	HC-7210SU	1
MPEG	1	1	SW8202R5 V1.1(4 combine PCB size:158.9*156.9*1.2)	1.2.70.1112171000	PCB	SW8202R5/V1.1/79.3*78.3*1.2/double layer/FR-4/OSP/green oil/	1
MPEG	2	2	C8 C13	1.2.01.3303070212	CONDENSER	33PF/±5%/50V/0402/NPO/SMD	2
MPEG	2	3	C19 C70 C74 C42	1.2.01.1013070212	CONDENSER	100PF/±5%/50V/0402/NPO/SMD	4
MPEG	2	4	BC1 BC12 BC13 BC15 C18 BC18 BC22 BC29 BC32 BC33 BC35 BC37 BC38 C39 BC39 BC42 BC43 BC44 C45 BC34 BC7 C20 C33	1.2.01.1046040232	CONDENSER	0.1UF/-20%,+80%/16V/0402/Y5V/SMD	23
MPEG	2	5	C17 C50 BC3 EC10 BC17 C30 AC12 AC1	1.2.01.1056030332	CONDENSER	1UF/-20%,+80%/10V/0603/Y5V/SMD	8
MPEG	2	6	CE1 CE2	1.2.10.0000300312	CONDENSER	0Ω/±5%/0603/SMD	2
MPEG	2	7	R52	1.2.10.0010300312	CONDENSER	1Ω/±5%/0603/SMD	1
MPEG	2	8	R1	1.2.10.0227300312	CONDENSER	2.2Ω/±5%/0603/SMD	1

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APPENDIX - ELECTRICAL PART LIST

MPEG	2	9	R37 R32	1.2.10.0517300212	CONDENSER	5.1Ω/±5%/0402/SMD	2
MPEG	2	10	R53	1.2.10.0150300312	CONDENSER	15Ω/±5%/0603/SMD	1
MPEG	2	11	R25 R26 R27 R35 R86	1.2.10.0750300212	CONDENSER	75Ω/±5%/0402/SMD	5
MPEG	2	12	L20	1.2.10.0750300312	CONDENSER	75Ω/±5%/0603/SMD	1
MPEG	2	13	L19	1.2.10.4700300312	CONDENSER	470Ω/±5%/0603/SMD	1
MPEG	2	14	R50 R10	1.2.10.1001300212	CONDENSER	1k/±5%/0402/SMD	2
MPEG	2	15	R14 R16 R68 R71 R96	1.2.10.2201300212	CONDENSER	2.2K/±5%/0402/SMD	5
MPEG	2	16	R33 R42 R107 R108	1.2.10.4701300212	CONDENSER	4.7K/±5%/0402/SMD	4
MPEG	2	17	R89 R90 R111	1.2.10.1002300212	CONDENSER	10K/±5%/0402/SMD	3
MPEG	2	18	R44 R43	1.2.10.1502300212	CONDENSER	15k/±5%/0402/SMD	2
MPEG	2	19	RN1	1.2.11.1001300312	CONDENSER	1K/8P4R/±5%/0603/SMD	1
MPEG	2	20	RN3	1.2.11.4701300312	CONDENSER	4.7K/8P4R/±5%/0603/SMD	1
MPEG	2	21	D6	1.2.33.0000005422	DIODE	BAT54S/30V/200MA/SOT-23/SMD	1
MPEG	2	22	Q6 Q7	1.2.42.0000855012	AUDION	8550/500MA/0.625W/160-350/PNP/SOT-23/SMD	2
MPEG	2	23	L2	1.2.50.1004000312	INDUCTANCE	10UH/±10%/3mA/<1.75Ω/0603/SMD	1
MPEG	2	24	CN3	1.2.72.0221241112	CONNECTOR	24PIN/0.5MM/vertical without buckle/SMD	1
MPEG	2	25	C26	1.2.02.1065050221	E.CAP	10UF/±20%/25V/4*7/-40℃;+105℃/AI/DIP	1
MPEG	2	26	AC2 EC1	1.2.02.4765040221	E.CAP	47UF/±20%/16V/4*7/-40℃;+105℃/AI/DIP	2
MPEG	2	27	EC3 EC5	1.2.02.4765040421	E.CAP	47UF/±20%/16V/5*7/-40℃;+105℃/AI/DIP	2
MPEG	2	28	EC7 EC16	1.2.02.1075030421	E.CAP	100UF/±20%/10V/5*7/-40℃;+105℃/AI/DIP	2
MPEG	2	29	EC14	1.2.02.1075040421	E.CAP	100UF/±20%/16V/5*7/-40℃;+105℃/AI/DIP	1
MPEG	2	30	EC11 EC13	1.2.02.2275030721	E.CAP	220UF/±20%/10V/6*7/-40℃;+105℃/AI/DIP	2
MPEG	2	31	D3	1.2.20.0000400411	DIODE	IN4004/1A/400V/foot diameterφ 0.7MM/DO-41/DIP	1
MPEG	2	32	D4	1.2.20.0000539911	DIODE	IN5399/1.5A/1000V/foot diameterφ 0.8MM/DO-15/DIP	1
MPEG	2	33	Q12 Q14	1.2.40.0000855041	AUDION	SS8550/1.5A/1W/200-300/PNP/TO-92/AI/DIP	2
MPEG	2	34	X1	1.2.73.2700000011	CRYSTAL	27MHz/20PF/±20PPM/3.8MM*11.05MM/rectangle/49S/without cushion/DIP	1

APPENDIX - ELECTRICAL PART LIST

MPEG	2	35	-CN4	2.2.71.2010403021	WAFER	4PIN/2.0MM/horizontal/white/pin length 2.2MM/DIP	1
MPEG	2	36	CN6	2.2.71.1010503011	WAFER	5PIN/2.0MM/vertical/white/pin length 2.2MM/DIP	1
MPEG	2	37	CN5 CN11 CN9	2.2.71.1010603011	WAFER	6PIN/2.0MM/vertical/white/pin length 2.2MM/DIP	3
MPEG	2	38	CN1	2.2.71.1010504011	WAFER	5PIN/2.54MM/vertical/white/pin length 2.2MM/DIP	1
MPEG	2	39	CN10	2.2.71.1010604011	WAFER	6PIN/2.54MM/vertical/white/pin length 2.2MM/DIP	1
MPEG	2	40	U9 (PMC require whether it is recorded or not before shipment)	2.2.71.1010800011	WAFER	FLASH socket/8PIN/vertical/black/pin length 2.5MM/DIP	1
MPEG	2	41	U9	1.2.66.0000008011	WAFER FLASH	EN25T80/DIP-8/DIP	1
MPEG	2	42	U11	1.2.62.0000161632	FLASH IC	ESMTM12L16161A-7T/1*16/3.3V/TSOP-50/SMD	1
MPEG	2	43	U6	1.2.60.0115000012	SUNPLUS IC	SPHE8202R-D/不帶DIVX/QFP-128/SMD	1
MPEG	2	44	R70	1.2.10.7500100212	RESISTOR	750Ω/±1%/0402/SMD	1
MPEG	2	45	R67	1.2.10.1002100212	RESISTOR	10K/±1%/0402/SMD	1
MPEG	2	46	R65	1.2.10.1202100212	RESISTOR	12K/±1%/0402/SMD	1
MPEG	2	47	R57	1.2.10.2202100212	RESISTOR	22K/±1%/0402/SMD	1
MPEG	2	48	U4	1.2.63.0000588832	DRIVE IC	HD5888 (standard voltage 1.175~1.20V) /HSOP-28/SMD	1
MPEG	2	49	R6	1.2.10.1001300212	RESISTOR	1k/±5%/0402/SMD	1
MPEG	2	50	R2	1.2.10.4701300212	RESISTOR	4.7K/±5%/0402/SMD	1
MPEG	2	51	R4	1.2.10.1002300212	RESISTOR	10K/±5%/0402/SMD	1
MPEG	2	52	R3	1.2.10.1502300212	RESISTOR	15k/±5%/0402/SMD	1
MPEG	2	53	Q1 Q3	1.2.42.0020390412	AUDION	2N3904/200MA/0.2W/100-300/NPN/SOT-23/SMD	2
MPEG	2	54	R70	1.2.10.7500100212	RESISTOR	750Ω/±1%/0402/SMD	1
MPEG	2	55	R67	1.2.10.1002100212	RESISTOR	10K/±1%/0402/SMD	1
MPEG	2	56	R65	1.2.10.1202100212	RESISTOR	12K/±1%/0402/SMD	1
MPEG	2	57	R57	1.2.10.2202100212	RESISTOR	22K/±1%/0402/SMD	1
MPEG	2	58	U4	1.2.63.0000588822	DRIVE IC	CD5888 OPTION (VOL: 1.175~1.20V) /HSOP-28/SMD	1

APPENDIX - ELECTRICAL PART LIST

MPEG	2	59	U4	1.2.63.0000588842	DRIVE IC	CD5888A(VOL:1.175~1.20V) /HSOP-28/SMD	1
MPEG	2	60	R6	1.2.10.1001300212	RESISTOR	1k/±5%/0402/SMD	1
MPEG	2	61	R2	1.2.10.4701300212	RESISTOR	4.7K/±5%/0402/SMD	1
MPEG	2	62	R4	1.2.10.1002300212	RESISTOR	10K/±5%/0402/SMD	1
MPEG	2	63	R3	1.2.10.1502300212	RESISTOR	15k/±5%/0402/SMD	1
MPEG	2	64	Q1 Q3	1.2.42.0020390412	AUDION	2N3904/200MA/0.2W/100-300/NPN/SOT-23/SMD	2
MPEG	2	65	R15	1.2.10.0000300212	RESISTOR	0Ω/±5%/0402/SMD	1
MPEG	2	66	R70	1.2.10.7500100212	RESISTOR	750Ω/±1%/0402/SMD	1
MPEG	2	67	R67	1.2.10.1002100212	RESISTOR	10K/±1%/0402/SMD	1
MPEG	2	68	R65	1.2.10.1202100212	RESISTOR	12K/±1%/0402/SMD	1
MPEG	2	69	R57	1.2.10.2202100212	RESISTOR	22K/±1%/0402/SMD	1
MPEG	2	70	AC3 AC4 AC5 AC6 AC7 AC8	1.2.01.1056030332	CONDENSER	1UF/-20%,+80%/10V/0603/Y5V/SMD	6
MPEG	2	71	C22 C23	1.2.01.1214070222	CONDENSER	120PF/±10%/50V/0402/X7R/SMD	2
MPEG	2	72	C458 C459 C460 C465	1.2.01.3014070222	CONDENSER	300PF/±10%/50V/0402/X7R/SMD	4
MPEG	2	73	-C461 - C462 - C463 - C464 C5 C6	1.2.01.2224070222	CONDENSER	2200PF/±10%/50V/0402/X7R/SMD	6
MPEG	2	74	AR1 AR3 AR6 AR7	1.2.10.1002300212	RESISTOR	10K/±5%/0402/SMD	4
MPEG	2	75	AR4 AR5	1.2.10.3302300212	RESISTOR	33K/±5%/0402/SMD	2
MPEG	2	76	AR17 AR18	1.2.10.4700300212	RESISTOR	470Ω/±5%/0402/SMD	2
MPEG	2	77	RN4	1.2.11.4700300312	RESISTOR	470Ω/8P4R/±5%/0603/SMD	1
MPEG	2	78	AU1	1.2.61.0000808012	IC	HD0808A/SOP-24/SMD	1
MPEG	2	79	CN2	2.2.71.1010703011	WAFER	7PIN/2.0MM/vertical/white/pin length2.2MM/DIP	1
MPEG	2	80	C32	1.2.01.6814070222	CONDENSER	680PF/±10%/50V/0402/X7R/SMD	1
MPEG	2	81	C38	1.2.01.1024070222	CONDENSER	1000PF/±10%/50V/0402/X7R/SMD	1
MPEG	2	82	R118 R119	1.2.10.0000300212	RESISTOR	0Ω/±5%/0402/SMD	2
MPEG	2	83	R66	1.2.10.2002300212	RESISTOR	20K/±5%/0402/SMD	1
MPEG	2	84	R58	1.2.10.9102300212	RESISTOR	91K/±5%/0402/SMD	1
MPEG	2	85	C11	1.2.01.1003070212	CONDENSER	10PF/±5%/50V/0402/NPO/SMD	1

APPENDIX - ELECTRICAL PART LIST

MPEG	2	86	C7	1.2.01.1046040232	CONDENSER	0.1UF/-20%,+80%/16V/0402/Y5V/SMD	1
MPEG	2	87	R7	1.2.10.0000300212	RESISTOR	0Ω/±5%/0402/SMD	1
MPEG	2	88	R21	1.2.10.1500300212	RESISTOR	150Ω/±5%/0402/SMD	1
MPEG	2	89	R28	1.2.10.2000300212	RESISTOR	200Ω/±5%/0402/SMD	1
MPEG	2	90	AV1	2.2.71.2030301011	JACK	AV+S terminal/yellow/DIP	1
MPEG	2	91	AV3	2.2.71.2020601001	JACK	AV6-8.4-13PB up:green/blue/red down:white/red/black/black seat/copper pin/DIP	1
MPEG	2	92	L15 L16.L21.L 22	1.2.50.0104000312	INDUCTANCE	1UH /±10%/25mA/<0.6Ω/0603/SMD	4
MPEG	2	93	-L7	1.2.47.3017000312	FB	FB (300Ω) /±25%/200MA/0603/SMD	1
MPEG	2	94	L8 L9 FL1.FL3.	1.2.47.1217000312	FB	FB (120Ω) /±25%/300MA/0603/SMD	4
MPEG	2	95	FL2.L3 .L4.	1.2.47.6017000312	FB	FB (600Ω) /±25%/200MA/0603/SMD	3
MPEG	2	96	-L5 -L6	1.2.50.4774000312	INDUCTANCE	4.7UH /±10%/15mA/<2.1Ω/0603/SMD	2
MPEG	2	97	R9 R11	1.2.10.2700300312	RESISTOR	270Ω/±5%/0603/SMD	2
MPEG	2	98	RN2	1.2.11.0330300312	RESISTOR	33Ω/8P4R/±5%/0603/SMD	1
MPEG	2	99	BC4.BC5. BC6	1.2.01.4703070212	CONDENSER	47PF/±5%/50V/0402/NPO/SMD	3
MPEG	2	100	C72 C41 C9 C12	1.2.01.1013070212	CONDENSER	100PF/±5%/50V/0402/NPO/SMD	4
MPEG	2	101	D8 D9 D10	1.2.33.0000005422	DIODE	BAT54S/30V/200MA/SOT-23/SMD	3
MPEG	2	102	-BC31.- BC10.- BC27.BC2 6.-BC30	1.2.01.2714070322	CONDENSER	270PF/±10%/50V/0603/X7R/SMD	5
MPEG	2	103	-BC11.- BC14 - BC16.- BC21	1.2.01.1024070322	CONDENSER	1000PF/±10%/50V/0603/X7R/SMD	4
MPEG	2	104	-BC41 BC19 - BC45 BC47	1.2.01.1056030332	CONDENSER	1UF/-20%,+80%/10V/0603/Y5V/SMD	4
MPEG	2	105	BC8 BC9 BC36	1.2.01.1046040232	CONDENSER	0.1UF/-20%,+80%/16V/0402/Y5V/SMD	3
MPEG	2	107	LL1	1.2.54.0007120912	INDUCTANCE	CM2-2012MCIN-900T/± 25%/400mA/2012/<0.4Ω/SMD	1
MPEG	2	108	BACK COVER	53-2RC51CH0-A0	5.1CH output terminal	No:RC-5.1CH V1.3,terminal colour:left white/white;Middle red/red;right black/black	1
LOADER	1	1	12000		DVD LOADER ASSY	HC-7210SU	1

APPENDIX - ELECTRICAL PART LIST

LOADER	2	1	LOADER	52-0LAD6FS0-AR	DVD LOADER	SAMSUNG pickup:DL6FS,DVM-34LADL6FS;connecting wire PCB style:DV34 94V-0;spindle motor style:A JQ24-351350F D/V, DC 3.0V(1.5V~6.0V),(JiaAi motor);sliding motor:A JQ24-35H440 D/V,DC 2.0V(1.0V~5.9V),(JiaAi motor) ;brand:SHUNHING,supplier:Xinxin.	1
LOADER	2	2	LOADER DECK	71-34323112-A0	DVD LOADER DECK	DECK CM-3231-01,H=31mm,black CD tray,one line tray,open/close motor style:HRF-300CA-11440 D/V5.0,PCB board style:CM-3229,plastic material:ABS,CD tray need engrave"CAUTION LASER INJURY"triangle marking,need mold improving(improve disc reading problem)	1
LOADER	2	3	CD DOOR	71-04240UCK-A0	CD DOOR	DV2400UC,brown,PMMA material	1
LOADER	2	4	LOADER 24P/0.5position/MPEG CN3	12-C181P05B-AR	WIRE	FFC flat wire,24P/0.5,(white wire with blue letter),length:180mm,pin same direction ,PIN width:12.5+/-0.05mm match SONY SAMSUNG mechanism,material:pin plating flat copper,electroplating thickness:1um;shuck is used anti-fire polyester material	1
FRONT	1	1	13000		FRONT PCB ASSY	HC-7210SU	1
FRONT	1	1	FRONT	08-AD392H01-A0	FRONT PCB	DVD-392.PCB.match with digital LCD,KB material	1
FRONT	2	2	J	72-16100006-AR	JUMP WIRE	length=10mm,diameter=0.6mm,material:brass surface with silver nickel	1
FRONT	2	3	100	01-02R20J0A-A0	C RESISTOR	2.2Ω,±5%,1/8W	1
FRONT	2	4	10K 10K×2	01-01KR0J0A-A0	C RESISTOR	1KΩ,±5%,1/8W	3
FRONT	2	5	51K	01-051KRJ0A-A0	C RESISTOR	51KΩ,±5%,1/8W	1
FRONT	2	6	101×3	02-0101PJ2F-A0	CONDENSER	101,±5%,50V	3
FRONT	2	7	104	02-0104PM2F-A0	CONDENSER	104,±20%,50V	2
FRONT	2	8	4148	04-3N414820-AA	DIODE	1N4148,DO-35	1
FRONT	2	9	100UF	02-0220UM0B-AR	E CAP	220uF,±20%,10V,SIZE: 5×11mm,-40+85°C, DIP	1
FRONT	2	10	220UF	02-0100UM0C-AR	E CAP	100uF,±20%,16V,SIZE: 5×11mm,-40+85°C, DIP	1
FRONT	2	11	SW	06-0KCLA50H-A0	TOUCHING SWITCH	KFC-LA5.0(250±30g),	6
FRONT	2	12	REM	10-0LF038KC-AR	SENSOR	LF0038K,black plastic case,bend pin,leading pin need 23.5mm	1
FRONT	2	13	U	05-1SM1628B-AA	IC	SM1628B,SOP28,brand:SM	1
FRONT	2	14	LCD	07-0ATA48X0-AR	LCD	ATA 4×8X,4 pcs of 8 digital LCD (retangle orange) -front pin,leading pin length is 16mm	1

APPENDIX - ELECTRICAL PART LIST

FRONT	2	15	SPONGE	71-2080807B-AR	SPONGE	8(L)×8(W)×7(H)mm,double side viscosity,black,rigidity is 45 degree	1
FRONT	2	16	FRONT	08-DD392H01-A0	STANDBY/ON PCB	DVD-392.PCB,KB material	1
FRONT	2	17	FRONT	08-BD392H01-A0	KEY PCB	DVD-392.PCB,KB material	1
FRONT	2	18	USB	13-013H7FB2-AR	USB TERMINAL	USB-4A/13.7H, straight insert,length:14mm,two fasten pin is vertical pin,DIP,internal middle fasten plastic is black	1
FRONT	2	19	FRONT PANEL	71-01H7210E-A0	FRONT PANEL	HC-7210SU,spray black glossy oil, ABS material,2 ribs,size:(L)430×(H)38mm,SILKSCREEN:DAEWOO	1
FRONT	2	20	POWER KNOB	71-02240UCP-A0	POWER KNOB	DV2400UC,electroplating silver,PMMA material	1
FRONT	2	21	FUNCTION KNOB	71-07240UCE-A0	FUNCTION KNOB	DV2400UC,1 position key,spray black glossy oil,ABS material	1
FRONT	2	22	FUNCTION KNOB	71-03240UCE-A0	FUNCTION KNOB	DV2400UC,4 position key,spray black glossy oil,ABS material	1
FRONT	2	23	WINDOW	71-05240UCK-A0	WINDOW	DV2400UC,brown clarity,PMMA material	1
FRONT	2	24	DECO RING	71-16240UCP-A0	DECO RING	DV2400UC,electroplating silver,ABS material	1
FRONT	2	25	USB COVER	71-US240UCB-A0	USB rubber cover	DV2400UC,black,rubber material,detail is according to engineering sample	1
FRONT	2	26	FRONT PCB 6P/2.5 position/MPEG CN10	12-A1816F5G-A0	WIRE	6P/2.5 single PIN,6P #26 black wire(white letter),length:180mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1
FRONT	2	27	FRONT PCB/PRESS PCB	12-A181505A-A0	WIRE	5P #26 black wire(white letter),length:180mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1
FRONT	2	28	FRONT PCB USB/MPEG USB	12-A2814E5B-A0	WIRE	4P/2.0 single pin,6P #26black wire(white letter),length:280mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1
FRONT	2	29	FRONT PCB/PRESS PCB	12-A201205A-A0	WIRE	2P #26black wire(white letter),length:200mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1
SPEAKER FRONT	1	1	14000		SPEAKER FRONT PCB ASSY	HC-7210SU	1
SPEAKER FRONT	1	1	FRONT CASE	08-GSW58061-A0	FRONT PCB	D10-H5806-001,L128×W54×H1.6mm,material:single side anti-firing board	1
SPEAKER FRONT	2	2	REM1	10-0LF038KC-AR	SENSOR	LF0038K,black plastic case,bend pin,leading pin need 23.5mm	1
SPEAKER FRONT	2	3	C1,C2,C8	02-010UFM1D-AR	E CAP	10uF,±20%,25V,size:(Φ)5×(H)11mm,-40+105°C,DIP	3
SPEAKER FRONT	2	4	C4,C5	02-022PFJ2F-A0	E CAP	22P,±5%,50V	2
SPEAKER FRONT	2	5	LED4	04-0W204D02-AA	LED	DX-3194PRD;diameter:3mm;red light,DIP,this material need RoHS,REACH requirement	1

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SPEAKER FRONT	2	6	LED1,LED3,LED5,LED6,LED7,LED8	04-0204BW06-AA	LED	DX-3194HBW,diameter:3mm,blue light DIP	6
SPEAKER FRONT	2	7	U1	05-0S5806DA-AA	IC	【IC style】 :EM78P156,DIP-18	1
SPEAKER FRONT	2	8	U1	13-0DP180D0-AR	IC CONNECTOR	2×9P(2.54mm),DIP-18	1
SPEAKER FRONT	2	9	U2	05-1H4094BT-AA	IC	HCF4094M013TR,SOP-16,ST,this material need RoHS,REACH requirement	1
SPEAKER FRONT	2	10	K1,K2,K3,K5,K6	06-0KCLA50H-A0	touch switch	KFC-LA5.0(250±30g),horizontal,material:leading pin brass surface is plating with silver nickel.,sealing:DIP	5
SPEAKER FRONT	2	11	CN2	13-0X257AB1-A0	CONNECTOR	7P/2.5,XH-7AW,90 degree horizontal insert,material:leading pin is brass surface with silver nickel	1
SPEAKER FRONT	2	12	R9	01-0100RJ0A-A0	C RESISTOR	100Ω,±5%,1/8W	1
SPEAKER FRONT	2	13	R5,R6,R7,R12,R13,R14	01-0220RJ0A-A0	C RESISTOR	220Ω,±5%,1/8W	6
SPEAKER FRONT	2	14	R8	01-01KR0J0A-A0	C RESISTOR	1KΩ,±5%,1/8W	1
SPEAKER FRONT	2	15	R1,R2,R3,R4,R10,R11	01-010KRJ0A-A0	C RESISTOR	10KΩ,±5%,1/8W	6
SPEAKER FRONT	2	16	PR1	01-010KAJ0M-A0	RESISTOR	10KRx10 group(11 pin) DIP	1
SPEAKER FRONT	2	17	Y1	14-24M0000B-AA	porcelain surge utensil	4.0MHz,DIP,this material need RoHS,REACH requirement	1
SPEAKER FRONT	2	18	JMP1,JMP2,JMP3,JMP4	72-27100006-AR	JUMP WIRE	length=10mm,diameter=0.6mm,material:plating with tinning	4
SMPS	1	1	15000		DVD SMPS PCB ASSY	HC-7210SU	1
SMPS	2	1	SMPS	53-1PW1525J-B0	SMPS PCB	STYLE :POW525 Ver:1.1,POWER-18-S	1
SPEAKER AMP	1	1	16000		SPEAKER AMP PCB ASSY	HC-7210SU	1
SPEAKER AMP	1	1	AMP	08-SSW58061-AR	PCB BOARD	D10-H5800-004 H5800 AMP PCB 2009.12.2,L159.7×W139.4×H1.6mm,material:single side anti-firing board	1
SPEAKER AMP	2	2	U1	05-1PT2258M-AA	IC	PT2258M,SOP-20,PTC,this material need RoHS,REACH requirement	1
SPEAKER AMP	2	3	U6	05-1BT2323M-AA	IC	BT2323M/PT2323,SOP-28,BT/PTC,this material need RoHS,REACH requirement	1
SPEAKER AMP	2	4	U4	05-1LM78L09-AA	IC	LM78L09,SOT89,ST,this material need RoHS,REACH requirement	1
SPEAKER AMP	2	5	U2	05-1K7805AR-AA	IC	KA7805AR,TO-252,FAIRCHILD,this material need RoHS,REACH requirement	1
SPEAKER AMP	2	6	U3,U10,U9,U8	05-1D455800-AA	IC	D4558,SOP8,CHMC,this material need RoHS,REACH requirement	4

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SPEAKER AMP	2	7	IC7,IC8,IC1,IC2,IC4,IC5,IC6	05-0T2030AV-AA	IC	TDA2030AV,TO-220,ST,this material need RoHS,REACH requirement	7
SPEAKER AMP	2	8	BD1	04-0KBU8080-AA	COMMUTE BRIDGE	KBU808,DIP,WTE,this material need RoHS,REACH requirement	1
SPEAKER AMP	2	9	D32,D33,D34,D35	04-0N400400-AA	DIODE(punch tape)	IN4004,DO-41,this material need RoHS,REACH requirement	4
SPEAKER AMP	2	10	Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8	03-1MP8050C-AA	CHIP AUDION	MPS8050S-C,SOT-23 ,KEC,this material need RoHS,REACH requirement	8
SPEAKER AMP	2	11	D1,D2	04-1N414820-AA	CHIP DIODE	FDLL4148,LL-34,FAIRCHILD,this material need RoHS,REACH requirement	2
SPEAKER AMP	2	12	D4	04-18V2001C-AA	DIODE	8.2V,1/2W,SMT1206,this material need RoHS,REACH requirement	1
SPEAKER AMP	2	13	R108,130,R122,R123,R124,R119,R113	01-10R00J0T-AR	RESISTOR	0Ω ±5% SMT0805	7
SPEAKER AMP	2	14	R4,R5,R46,R53,R54,R107,R105,R121,R131,R132,R133,R134,R135,R136,R137,R138,R128,R126,R125,R1,R43,R103	01-10R00J0A-AR	RESISTOR	0Ω ±5% SMT1206	22
SPEAKER AMP	2	15	R144,R145,R147,R148,R149,R150,R98,R45	01-12R20J0T-AR	RESISTOR	2.2Ω ±5% SMT0805	8
SPEAKER AMP	2	16	C80	01-12R20J0A-AR	RESISTOR	2.2Ω ±5% SMT1206	1
SPEAKER AMP	2	17	R26,R27,R28,R29,R30,R31	01-1270RJ0T-AR	RESISTOR	270Ω ±5% SMT0805	6
SPEAKER AMP	2	18	R65	01-1820RJ0T-AR	RESISTOR	820Ω ±5% SMT0805	1
SPEAKER AMP	2	19	R40,R86,R70,R83	01-1820RJ0A-AR	RESISTOR	820Ω ±5% SMT1206	4
SPEAKER AMP	2	20	R102,R32,R33,R47,R48,R96	01-11KR0J0T-AR	RESISTOR	1KΩ ±5% SMT0805	6
SPEAKER AMP	2	21	R93,R104,R106,R127,R129	01-11KR0J0A-AR	RESISTOR	1KΩ ±5% SMT1206	5

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SPEAKER AMP	2	22	R72,R78,R79,R88,R91,R99,R100,R101,143	01-12K2RJ0T-AR	RESISTOR	2.2K Ω $\pm$ 5% SMT0805	9
SPEAKER AMP	2	23	R74	01-15K1RJ0T-AR	RESISTOR	5.1K Ω $\pm$ 5% SMT0805	1
SPEAKER AMP	2	24	R11,R15,R35,R42,R81,R109,R110	01-18K2RJ0T-AR	RESISTOR	8.2K Ω $\pm$ 5% SMT0805	7
SPEAKER AMP	2	25	R2,R6,R7,R8,R9,R12,R16,R17,R18,R19,R20,R21,R23,R50,R55,R60,R64,R69,R75,R77,R41,R44,R52,R56,R58	01-110KRJ0T-AR	RESISTOR	10K Ω $\pm$ 5% SMT0805	25
SPEAKER AMP	2	26	R3	01-112KRJ0T-AR	RESISTOR	12K Ω $\pm$ 5% SMT0805	1
SPEAKER AMP	2	27	R141,R142	01-118KRJ0T-AR	RESISTOR	18K Ω $\pm$ 5% SMT0805	2
SPEAKER AMP	2	28	R38,R49,R63,R66,R73,R82,R85,R87,R92,R67,R84,R94,R97	01-122KRJ0T-AR	RESISTOR	22K Ω $\pm$ 5% SMT0805	13
SPEAKER AMP	2	29	R24,R25	01-124KRJ0T-AR	RESISTOR	24K Ω $\pm$ 5% SMT0805	2
SPEAKER AMP	2	30	R95,R59	01-133KRJ0T-AR	RESISTOR	33K Ω $\pm$ 5% SMT0805	2
SPEAKER AMP	2	31	R71,R37,112,R115,R114,R120	01-147KRJ0T-AR	RESISTOR	47K Ω $\pm$ 5% SMT0805	6
SPEAKER AMP	2	32	R10	01-120KRJ0T-AR	RESISTOR	20K Ω $\pm$ 5% SMT0805	1
SPEAKER AMP	2	33	R62,R39,R111,R116,R117,R118	01-1100KJ0T-AR	RESISTOR	100K Ω $\pm$ 5% SMT0805	6
SPEAKER AMP	2	34	C93,C95,C96,C97,C98,C101,C102,C103	02-1330PJAT-AR	CONDENSER	330P $\pm$ 5% 50V NPO 0805	8
SPEAKER AMP	2	35	C70,C1	02-1102PKAT-AR	CONDENSER	102 $\pm$ 10% 50V X7R 0805	2
SPEAKER AMP	2	36	C46	02-1103PKAT-AR	CONDENSER	103 $\pm$ 10% 50V X7R 0805	1

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SPEAKER AMP	2	37	C118,C111,C112,C109,C83	02-1333PKAT-AR	CONDENSER	333 ±10% 50V X7R 0805	5
SPEAKER AMP	2	38	C27,C115,C116	02-1473PMAT-AR	CONDENSER	473 ±20% 50V Y5V 0805	3
SPEAKER AMP	2	39	C26,C30,C32,C38,C48	02-1683PKAT-AR	CONDENSER	683 ±10% 50V X7R 0805	5
SPEAKER AMP	2	40	C5,C6,C7,C22,C40,C61,C62,C69,C75,C72,C99,C45,C53,C20,C29,C51,C117,C121,C122,C123	02-1104PMAT-AR	CONDENSER	104 ±20% 50V Y5V 0805	20
SPEAKER AMP	2	41	C90,C107,C119,C66,C106,C108,C110,C113,C114,C120,C124,C94,C77,C100,C105,C81,C79	02-1154PMAT-AR	CONDENSER	154 ±20% 25V Y5V 0805	17
SPEAKER AMP	2	42	C63	02-1224PMAT-AR	CONDENSER	224 ±20% 25V Y5V 0805	1
SPEAKER AMP	2	43	C31,C33,C35	02-1474PMAT-AR	CONDENSER	474 ±20% 25V Y5V 0805	3
SPEAKER AMP	2	44	C10,C14,C15,C16,C17,C18,C34,C43,C44,C73,C68,C85	02-12UF2MAT-AR	CONDENSER	2.2uF ±20% 16V Y5V 0805	12
SPEAKER AMP	2	45	C88,C60,C54,C87,C12,C57	02-010UFM1D-AR	CONDENSER	10uF,±20%,25V,size:(Φ)5×(H)11mm,-40+105°C,DIP	6
SPEAKER AMP	2	46	C13	02-010UFM1F-AR	CONDENSER	10uF,±20%,50V,size:(Φ)5×(H)11mm,-40+105°C,DIP	1
SPEAKER AMP	2	47	C86,C71,C50,C37,C49,C19,C36,C74,C11	02-022UFM1D-AR	CONDENSER	22uF,±20%,25V,size:(Φ)5×(H)12mm,-40+105°C,DIP	9
SPEAKER AMP	2	48	C127	02-01KUFM1D-AR	CONDENSER	1000uF,±20%,25V,size:(Φ)10×(H)20mm,-40+105°C,DIP	1
SPEAKER AMP	2	49	C125,C126	02-04K7UM1D-AR	CONDENSER	4700uF,±20%,25V,size:(Φ)16×(H)25mm,-40+105°C,DIP	2
SPEAKER AMP	2	50	SWOUT	13-0X252AB0-A0	CONNECTOR	2P/2.5,XH-2.5-2A,VERTICAL INSERT,material:leading pin with brass surface plating silver nickel	1

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SPEAKER AMP	2	51	CN2,CN4	13-0X255AB0-A0	CONNECTOR	5P/2.5,XH-2.5-5A,vertical insert,material:leading pin with brass surface plating silver nickel.	2
SPEAKER AMP	2	52	JK1	13-0A4847A1-A0	AV JACK	AV4-8.4-7A,4 horizontal,upside with red/red,downside white/white seal:DIP	1
SPEAKER AMP	2	53	JK2	13-0A484701-A0	AV JACK	AV4-8.4-7,4 horizontal,upside with red/black,downside with white/black,seal:DIP	1
SPEAKER AMP	2	54	JK3	13-0V5847A1-A0	AV JACK	AV5-8.4-7A,6 horizontal(right upside is empty),upside red/red/empty,downside white/white/black,seal:DIP	1
SPEAKER AMP	2	55	JP1,JP2	72-16050006-AR	JUMP WIRE	length=5mm,diameter=0.6mm,material:brass surface plating silver nickel.	2
SPEAKER AMP	2	56	JMP2,JMP4	72-16100006-AR	JUMP WIRE	length=10mm,diameter=0.6mm,material:brass surface plating silver nickel.	2
SPEAKER AMP	2	57	JMP1	72-16130006-AR	JUMP WIRE	length=13mm,diameter=0.6mm,material:brass surface plating silver nickel.	1
SPEAKER AMP	2	58	SMT	75-19HP305A-AA	STANNUM GREASE	lead free stannum grease M705-GRN360-K2-V,Sn96.5/Ag3.0/Cu0.5,500g/bottle	0.003
ASSEMBLY PARTS	1	1	17000		DVD ASSEMBLY PARTS	HC-7210SU	1
ASSEMBLY PARTS	1	1	BOTTOM	72-01240UCF-A0	PRESS BOTTOM	DV2400UC,cold roll steel,spray black veins powder,2 ribs,MPEG PCB position with 2 pcs rivet,clash 4 pcs footsie,size:425L×193.5W×0.6H(±0.03)mm	1
ASSEMBLY PARTS	2	2	BACK COVER	72-02H7210B-A0	PRESS BACK COVER	HC-7210SU,cold cold roll stell,spray semi glossy powder,size:427L×38W×0.5H(±0.03)mm	1
ASSEMBLY PARTS	2	3	TOP COVER	72-03240UCF-A0	PRESS TOP COVER	DV2400UC,cold roll steel,spray black veins powder,size:430L×195W×0.5H(±0.03)mm	1
ASSEMBLY PARTS	2	4	Plastic loader frame upside two screw position	71-C100902B-AR	SPONGE	10(L)×9(W)×2(H)mm,single side viscosity,black,rigidity 60 degree,with holes	2
ASSEMBLY PARTS	2	5	AC CORD	12-KUD201R0-A0	AC CORD	main unit external 1.2m+ main unit internal 200mm+3P/3.96 connector,wire/AC cord plastic colour:black,UL wire+UL AC CORD(KE-01P),2PIN /certification marks:UL,(copper section acreage:0.824mm²,shuck wording:0.824mm²)	1
ASSEMBLY PARTS	2	6	SMPS bottom insulation	71-242413AC-AR	Insulation Rubber	SW2413A,size(L)104×(W)55×(H)0.5mm,4 pcs fasten hole,clarity,PVC anti-fire material 94V0	1
SPEAKER ASSEMBLY PARTS	1	1	18000		SPEAKER ASSEMBLY PARTS	HC-7210SU	1

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SPEAKER ASSEMBLY PARTS	2	1	MAIN CASE	71-01S5806B-A0	MAIN WOODEN CASE	SW5806,size:298×165×280mm,thickness 9mm,surface PVC style:YongQiang black 9102,detail is according to engineering sample	1
SPEAKER ASSEMBLY PARTS	2	2	MAIN FRONT	71-02H7210B-A0	MAIN PLASTIC FRONT CASE	HC-7210SU,piano black injection,ABS,incoming surface need coating PVC,silkscreen:DAEWOO	1
SPEAKER ASSEMBLY PARTS	2	3	MAIN REAR	71-03S5806B-A0	MAIN CASE PLASTIC NET FRAME	SW5806,injection black,HIPS material	1
SPEAKER ASSEMBLY PARTS	2	4	MAIN FRONT	71-04S5806B-A0	MAIN PLASTIC 5 PRESSING KEYS	SW5806,spray black high glossy oil,ABS material	1
SPEAKER ASSEMBLY PARTS	2	5	MAIN FRONT	71-05H7210B-A0	MAIN PLASTIC WINDOW	HC-7210SU,clearity PVC(black bottom with enchase white letters)	1
SPEAKER ASSEMBLY PARTS	2	6	MAIN BACK	71-09H7210B-A0	MAIN WOODEN BACK COVER	HC-7210SU,thickness:7mm,surface attached PVC style:YongQiang black 9102,detail is according to engineering sample	1
SPEAKER ASSEMBLY PARTS	2	7	TAPE	75-12SW5806-AR	WINDOW clarity double tape	SW5806,viscosity:NITTO 5015	1
SPEAKER ASSEMBLY PARTS	2	8	NET FRAME	71-3128020B-A0	MAIN SPEKAER NET	SW5806,black net,size 250×250mm	1
SPEAKER ASSEMBLY PARTS	2	9	MAIN BOTTOM	09-0SW5806E-A0	POWER TRANSFORMER	MODEL:LY660667A, I/P:127V~60Hz RED-RED,O/P:12V×2~3.5A BLU-YEL - BLU 13.5V~0.5A RED-RED	1
SPEAKER ASSEMBLY PARTS	2	10	MAIN FRONT	06-00RS1100-A0	POWER ON/OFF	RS601,barque style switch AC 6A250V 10A125V,VDE certification	1
SPEAKER ASSEMBLY PARTS	2	11	MAIN INSIDE	16-05N6R30W-AR	SUB WOOFER	5寸,6Ω,30W,black round basin,drum paper double magnetism,defend magnetism,detail is according to sample	1
SPEAKER ASSEMBLY PARTS	2	12	MAIN REAR	71-35S5806B-A0	PLASTIC WIND CANISTER	SW5806,black,size:Φ82×120mm,ABS plastic spray black oil,double bugle gate	1
SPEAKER ASSEMBLY PARTS	2	13	WIND CANISTER REAR	71-3120120B-A0	WIND CANISTER NET	black net,style:Fo Da FB-Z-7(size 120×120mm)	1
SPEAKER ASSEMBLY PARTS	2	14	AC CORD	12-KU132R0B-A0	AC CORD	length 1300mm,wire/head plastic colour:black,UL wire+UL head(KE-01P),insert cord with polarity,(external with letter/copper core section acreage:18AWG)	1
SPEAKER ASSEMBLY PARTS	2	15	MAIN BACK	71-32000A8B-A0	AC CORD BUCKLE	(A8 jacket)-buckle 2 core wire	1
SPEAKER ASSEMBLY PARTS	2	16	HEAT TUBE(AC CORD)	71-2605MM0B-AR	HEAT TUBE	SALIPT S-901 E209436 UL VW-1 LR209028 CSA 125°C HFT (5 φ),dismeter:5mm,anti fire 94V0,UL certification,black	0.085
SPEAKER ASSEMBLY PARTS	2	17	HEAT TUBE(POWER ON/OFF)	71-2620MM0B-AR	HEAT TUBE	SALIPT S-901 E209436 UL VW-1 LR209028 CSA 125°C HFT (20 φ),diameter:20mm,anti-fire 94V0,UL certification,black	0.032

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SPEAKER ASSEMBLY PARTS	2	18	MAIN BACK	72-13S5806S-AR	HEATSINK	AL,size:140×65×20mm,detail is according to diagram.	1
SPEAKER ASSEMBLY PARTS	2	19	PRESS FRAME(AMP IC)	72-04S5806S-A0	Fasten IC press frame	material:cold roll steel,size:140×10×3mm,electroplating color zinc,detail is according to diagram.	1
SPEAKER ASSEMBLY PARTS	2	20	AMP IC--HEATSINK	71-45S5806A-AR	Insulated tape	Insulated tape,L140×W21 mm,thickness 0.4mm,detail is according to diagram	1
SPEAKER ASSEMBLY PARTS	2	21	MAIN BOTTOM	71-1180400B-AR	SPONGE	black,diameter 18mm,thickness 4mm,single side vicinity,rigidity:75 degree	4
SPEAKER ASSEMBLY PARTS	2	22	PT BOTTOM	71-1101502B-AR	SPONGE	size:101(L)×50(W)×2(H)mm,open 4 holes,single side vicinity,black,rigidity 60 degree	1
SPEAKER ASSEMBLY PARTS	2	23	WIRE	71-18L1010W-AR	WIRE	L=100mm,white,nylon material,used for AC cord×1PC;power transformer wire×2PC	3
SPEAKER ASSEMBLY PARTS	2	24	MAIN UNIT TERMINAL	71-2SW5806A-AR	SPONGE	size:114(L)×30(W)×2(H)mm,single side vicinity normal,60 degree,black,middle place need to open holes, detail is according to diagram.	1
SPEAKER ASSEMBLY PARTS	2	25	MAIN BACK COVER*2	71-22501015-AR	SPONGE	size:250(L)×10(W)×1.5(H)mm,single vicinity normal,60 degree,black	2
SPEAKER ASSEMBLY PARTS	2	26	MAIN UNIT SPEAKER*1	71-24001015-AR	SPONGE	size:400(L)×10(W)×1.5(H)mm,single vicinity normal,60 degree,black	1
SPEAKER ASSEMBLY PARTS	2	27	MAIN BACK COVER	71-21401015-AR	SPONGE	size:140(L)×10(W)×1.5(H)mm,single side vicinity normal,60 degree, black	2
SPEAKER ASSEMBLY PARTS	2	28	Output position(MAIN SPEAKER)	71-2151008B-AR	SPONGE	size:15(L)×10(W)×8(H)mm,double side vicinity,rigidity:60 degree,black	1
SPEAKER ASSEMBLY PARTS	2	29	CUSHION	71-2932805R-AR	RED ROUGE CUSHION	3.2(inner)×8(outside)×0.5(thickness)mm,single side vicinity,red,AMP fasten heatsink IC2 IC5 sides×2PCS	2
SPEAKER ASSEMBLY PARTS	2	30	FRONT CASE	71-087210SB-A0	FRONT CASE	HC-7210SU,piano black injection,ABS,S:94×150×10 mm,incoming surface need to attach coating PVC,silkscreen:DAEWOO	5
SPEAKER ASSEMBLY PARTS	2	31	FRONT CASE	71-06S5806B-A0	FRONT CASE	SW5806,material:HIPS,plastic injection black,S:94×150×75 mm	5
SPEAKER ASSEMBLY PARTS	2	32	BACK COVER	71-07S5806B-A0	subsidiary wall hanging seal cover	SW5806,material:HIPS,rotundity,black plastic injection	5
SPEAKER ASSEMBLY PARTS	2	33	BACK COVER	16-25N4R12W-AR	FULL RANGE SPEKAER	3inch,4Ω,12W,detail is according to samples	5
SPEAKER ASSEMBLY PARTS	2	34	CASE BOTTOM	71-1120200B-AR	SPONGE	black,diameter12mm,thickness2mm, single side vicinity,rigidity:60 degree	20

APPENDIX - ELECTRICAL PART LIST

WIRE PARTS	1	1	19000		DVD WIRE PARTS	HC-7210SU	1
WIRE PARTS	2	1	SMPS CN2/MP EG CN1	12-A1815F3B-A0	WIRE	7P/2.5 double cord head,5P #22 black wire(white letter),length:180mm,material:copper core wire+soft rubber shuck(60P)+nylon pin	1
WIRE PARTS	2	2	LOADER 5P/2.0 position/M PEG CN6	12-A1615E5H-A0	WIRE	5P/2.0 double pin,5P #26 black wire(white letter),length:160mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1
WIRE PARTS	2	3	LOADER 6P/2.0posi tion/MPE G CN5	12-A1216E5A-A0	WIRE	6P/2.0double pin,6P #26black wire(white letter),length:120mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1
WIRE PARTS	2	4	MPEG CN2/5.1C H termianl CN2	12-E5007E5F-A0	WIRE	7P/2.0 double pin,7P #26 black wire(white letter),length:50mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1
WIRE PARTS	2	5	MPEG TERMIA NL and DECK REAR screw postion	12-E500101J-A0	WIRE	1P #18 black signle wire+cushion patch(black wire white letter),length:50mm,material:copper core wire+soft rubber shuck	1
WIRE PARTS	1	1	20000		SPEAKER WIRE PARTS	HC-7210SU	1
WIRE PARTS	2	1	FRONT,C ENTER	12-E222AV2B-A0	Subsidiary speaker connecting wire	RCA head,black head roundity 180 degree,wire length 2.2m,double wires,tail terminal kick pleat 30MM,skin with tin 6MM,white is anode and black is cathode(copper wire section areadage:22AWG)	3
WIRE PARTS	2	2	REAR	12-E732AV2B-A0	Subsidiary speaker connecting wire	RCA head,black head roundity 180 degree,wire length 7.3m,double wires,tail terminal kick pleat 30MM,skin with tin 6MM,white is anode and black is cathode(copper wire section areadage:22AWG)	2
WIRE PARTS	2	3	FRONT PCB CN2/AMP PCB CN4	12-A5017F5E-A0	WIRE	7P/2.5+5P/2.5,5P #26 black wire(white letter),length:500mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1
WIRE PARTS	2	4	One to AMP D35 anode pin/other one to AMP JK3 downgrou nd	12-A700101A-A0	WIRE	1P #18 black wire(white letter),length:70mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1

APPENDIX - ELECTRICAL PART LIST

WIRE PARTS	2	5	SUB WOOFER/ AMP SWOUT	12-A2512F1A-A0	WIRE	2P/2.5 single pin,2P #18 red black wire,length:250mm,material:copper core wire+soft rubber shuck(60P)+Nylon pin	1
DVD SCREW	1	1	21000		DVD SCREW	HC-7210SU	1
DVD SCREW	2	1	MPEG× 3,5.1CH output terminal×2	73-0PA0308B-A0	SCREW	3×8 PA,screw,black electroplate zinc,1010 steel,surface can not have oil	5
DVD SCREW	2	2	FRONT PCB× 7,PRESS PCB×2	73-0PA2808S-A0	SCREW	2.8×8 PA,screw,silver electroplate zinc,1010 steel,surface can not have oil	9
DVD SCREW	2	3	Loder frame backx2,A MP× 4,MPEG× 2	73-BGS0306S-A0	SCREW	3×6BGS,triangle strengthen rigidity,silver electroplate nickle,1010 steel	8
DVD SCREW	2	4	Front pcb bottom×2	73-BGS0306B-A0	SCREW	3×6BGS,triangle strengthen rigidity,black electroplate nickle,1010 steel.	2
DVD SCREW	2	5	Plastic loader deck upsidesx2	73-0BB0410S-A0	SCREW	4×10BB, screw,silver electroplate zinc,1010 steel,surface cannot have oil.	2
DVD SCREW	2	6	Top cover rearx2,bav k rear ×4	73-PWGS305B-A0	SCREW	3x5PWGS,triangle strengthen rigidity,with plate,black electroplate nickle,1010 steel.	6
DVD SCREW	2	7	Plastic front two rear sides× 2	73-KGS0305S-A0	SCREW	3×5KGS,triangle strengthen rigidity,flat head,silver electroplate nickle,1010 steel.	2
SPEAKER SCREW	1	1	22000		SPEAKER SCREW	HC-7210SU	1
SPEAKER SCREW	2	1	MAIN back wooden case×10	73-0TA3520B-A0	SCREW	3.5×20TA electroplate black zinc,wooden tooth,1010 steel,surface cannot have oil.	10
SPEAKER SCREW	2	2	Lock speakr×4	73-0TA3516B-A0	SCREW	3.5×16TA,electroplate black zinc,wooden tooth,1010 steel,surface cannot have oil.	4
SPEAKER SCREW	2	3	Lock PT× 4	73-PWM0416B-A0	SCREW	4×16PWM,electroplate black zinc,strengthen rigidity tooth, head diameter:10mm,1010 steel.	4
SPEAKER SCREW	2	4	AMP PCB and heatsink×4	73-BGS0308S-A0	SCREW	3×8BGS,triangle tooth strengthen rigidity,silver electroplate nickle,1010 steel.	4
SPEAKER SCREW	2	5	Fasten press frame/back cover×2	73-PWGS312B-A0	SCREW	3×12PWGS,electroplate black zinc,triangle tooth strengthen rigidity,head diameter:7.5mm,1010 steel,surface cannot have oil.	2
SPEAKER SCREW	2	6	Lock PT× 4	73-000M404S-A0	FRANCE NUT	M4,High 4mm,electroplate white zinc,1010 steel,surface can not have oil.	4

APPENDIX - ELECTRICAL PART LIST

SPEAKER SCREW	2	7	AV output terminal×4	73-0PA0312B-A0	SCREW	3×12PA,electroplate black zinc,1010 steel,surface cannot have oil.	4
SPEAKER SCREW	2	8	heatsink and IC1 IC2 IC4 IC5 IC7 IC8 fasten frame×7	73-0PM0312B-A0	SCREW	3×12PM,electroplate black zinc,strengthen rigidity tooth,1010 steel,surface cannot have oil.	7
SPEAKER SCREW	2	9	Heatsink and IC6 fasten frame×1	73-0PM0315B-A0	SCREW	3×15PM,electroplate black zinc,strengthen rigidity tooth, 1010 steel,surface cannot have oil.	1
SPEAKER SCREW	2	10	Heatsink and back cover×2	73-PWM0316B-A0	SCREW	3×16PWM,electroplate black zinc,strengthen rigidity tooth,1010 steel,surface can not have oil.	2
SPEAKER SCREW	2	11	Lock press PCB×4	73-0PA0306S-A0	SCREW	3×6PA ,electroplate silver zinc,1010 steel,surface cannot have oil.	4
SPEAKER SCREW	2	12	Subsidiary case front and back×40	73-0BA0310B-A0	SCREW	3×10BA ,electroplate black zinc,1010 steel,surface cannot have oil.	40
PACKING	1	1	23000		PACKING MATERIAL	HC-7210SU	1
PACKING	2	1	Pack DVD unit	77-57032004-AR	POLYBAG	570×320(hatch),thickness:0.04mm,detail is according to artwork.	1
PACKING	2	2	Pack I/B	77-26016503-AR	POLYBAG	260×165(Hatch),thickness:0.03mm,detail is according to artwork.	1
PACKING	2	3	Pack DVD AC Cord	77-24008013-AR	POLYBAG	240×80(Hatch),thickness:0.03mm,detail is according to artwork.	1
PACKING	2	4	Pack speaker main AC cord	77-33012513-AR	POLYBAG	330×125(Hatch),thickness:0.03mm,detail is according to artwork.	1
PACKING	2	5	Pack speaker main	77-53047004-AR	POLYBAG	530×470(Hatch),thickness:0.04mm,detail is according to artwork.	1
PACKING	2	6	Pack speaker satellite	77-26020013-AR	POLYBAG	260×200(Hatch),thickness:0.03mm,detail is according to artwork.	5
PACKING	2	7	Pack speaker AV cord×1PC;subsidiary speaker connecting wire×5PCS	77-23012513-AR	POLYBAG	230×125(Hatch),thickness:0.03mm,detail is according to artwork.	6
PACKING	2	8	Pack DVD Main	74-CS8310L0-AR	POLYFOAM	SW8310-L(unit: pcs),EPS polyfoam	1

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PACKING	2	9	Pack DVD Main	74-CS8310R0-AR	POLYFOAM	SW8310-R(unit:pcs),EPS polyfoam	1
PACKING	2	10	Pack speaker	74-CS5806T0-AR	POLYFOAM(TOP)	SW5806-T(unit:pcs),EPS polyfoam	1
PACKING	2	11	Pack speaker	74-CS5806B0-AR	POLYFOAM(BOTTOM)	SW5806-B(unit:pcs),EPS polyfoam	1
PACKING	2	12	Pack DVD unit+speaker	74-E7210SUA-AR	GIFT BOX	HC-7210SU,A3 double delve paper,oversew edge with glue not use screw;inner size:456×401×292mm;external size:468×413×310mm,detail is according to artwork.	1
PACKING	2	13	DVD AV cord、battery、remote controller、speaker AC cord/satellite speaker connecting polybag230×125	74-FKT9000A-AR	SMALL BOX	KHTIB 9000,material:B9 single delve,carton box colout,inner size:306(L)×80(W)×284(H)mm;external size:312(L)×86(W)×290(H)mm,oversew edge with glue not screw.	1
PACKING	2	14	Put in polybag-260×165mm(open)	74-G120804A-AR	I/B	HC-7210SU, SPANISH, (1、 Page: 40 pages; 2、 colour: FRONT/inner paper with black/white printing; 3、 size: 145×210mm; 4、 page weight: front/inner page 80g writing page), detail is according to artwork.	1
PACKING	2	15	Put in polybag-260×165mm(open)	74-H7210SUA-AR	WARRANTY CARD	HC-7210SU,detail is according to artwork.	1
PACKING	2	16	Put in polybag-260×165mm(open)	51-3033B0DA-A0	REMOTE CONTROLLER	JX-3033,ENGLISH,black case,Daewoo,use NEC code,first code:00FF,packing polybag with:triangle and 04 PE-LD,red silkscreen	1
PACKING	2	17	Put in polybag-260×165mm(open)	12-E122AV3A-A0	AV CORD	3PIN,L=1.2M,head with yellow,white,red color, soft black shuck.	1
PACKING	2	18	DVD back cover×1PC,W/card×1PC,G/box×1PC	74-M120804A-AR	SERIAL NUMBER	Single side with viscosity,detail is according to artwork.	3
PACKING	2	19	FRONT SPEAKER	74-M120804C-AR	SPEAKER LABEL	ALTAVOZ FRONTAL 4Ω,single viscosity,detail is according to artwork.	2

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PACKING	2	20	SURROUND SPEAKER	74-M120804D-AR	SPEAKER LABEL	ALTAVOZ TRASERO 4Ω,single viscosity,detail is according to artwork.	2
PACKING	2	21	CENTER SPEAKER	74-M120804E-AR	SPEAKER LABEL	ALTAVOZ CENTRAL 4Ω,single viscosity,detail is according to artwork.	1
PACKING	2	22	Seal main unit plastic front	74-32021002-AR	PE coating film	Size:320(W)×210(L)×0.02(H)mm,unit:meter	1
PACKING	2	23	Seal subwoofer front plastic	74-19012002-AR	PE coating film	size:190(W)×120(L)×0.02(H)mm,unit:meter	5

Appendix-Electrical Part List

NO	PART CODE	DESCRIPTION	REMARKS
1	1.2.70.1112171000	MPEG PCB ASSY	
2	53-2RC51CH0-A0	5.1CH AUDIO OUTPUT PCB ASSY	
3	53-1PW1525J-B0	DVD SMPS PCB ASSY	
4	08-BD392H01-A1	FRONT PCB ASSY	
	08-BD392H01-A0	PRESS KEY PCB ASSY	
	08-AD392H01-A0	LCD PCB ASSY	
	08-AD392H01-A1	POWER SWITCH PCB ASSY	
5	08-GSW58061-A0	SPEAKER AMP FRONT PCB ASSY	
6	08-SSW58061-AR	SPEAKER AMP PCB ASSY	
7	09-0SW5806E-A0	POWER TRANSFORMER(LY660667A)	
8	52-0LAD6FS0-AR1	DVD LOADER ASSY	
	52-0LAD6FS0-AR	PICK-UP ASSY (DL-6FS)	
	71-34323112-A0	DVD DECK ASSY	
9	16-25N4R12W-AR	SPEAKER ASSY	
10	12-KU132R0B-A0	SPEAKER AC CORD	
11	12-KUD201R0-A0	MAIN UNIT AC CORD (SPT-2)	
12	51-3033B0DA-A0	REMOTE CONTROLLER	
13	74-G120804A-AR	IB	
14	74-E7210SUA-AR	GIFT BOX	

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