SAMSUNG

ELECTRONICS

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SERVICE MANUAL

DVD-N501

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SAMSUNG

DVD PLAYER

Chassis : Milleno

DVD-N501

SERVICE *Manual*

DVD PLAYER

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1. Precautions

1-1 Safety Precautions

1) Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:

(1) Be sure that no built-in protective devices are defective or have been defeated during servicing. (1)Protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields, including any remove for servicing convenience.
(2)When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fish papers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning.

(2) Be sure that there are no cabinet openings through which adults or children might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, excessively wide cabinet ventilation slots, and an improperly fitted and/or incorrectly secured cabinet back cover.

(3) Leakage Current Hot Check-With the instrument completely reassembled, plug the AC line cord directly into a 120V AC outlet. (Do not use a isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1270 (40.7). With the instrument's AC switch first in the ON position and then in the OFF position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinets, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis.
Any current measured must not exceed 0.5mA. Reverse the instrument power cord plug in the outlet and repeat the test. See Fig. 1-1.
Any measurements not within the limits specified herein indicate a potential shock hazard that must be eliminated before returning the instrument to the customer.

Fig. 1-1 AC Leakage Test

(4) Insulation Resistance Test Cold Check-(1) Unplug the power supply cord and connect a jumper wire between the two prongs of the plug. (2) Turn on the power switch of the instrument. (3) Measure the resistance with an ohmmeter between the jumpered AC plug and all exposed metallic cabinet parts on the instrument, such as screwheads, antenna, control shafts, handle brackets, etc. When an exposed metallic part has a return path to the chassis, the reading should be between 1 and 5.2 megohm. When there is no return path to the chassis, the reading must be infinite. If the reading is not within the limits specified, there is the possibility of a shock hazard, and the instrument must be re-pared and rechecked before it is returned to the customer. See Fig. 1-2.

Fig. 1-2 Insulation Resistance Test

2) Read and comply with all caution and safety related notes non or inside the cabinet, or on the chassis.

3) Design Alteration Warning-Do not alter of add to the mechanical or electrical design of this instrument. Design alterations and additions, including but not limited to, circuit modifications and the addition of items such as auxiliary audio output connections, might alter the safety characteristics of this instrument and create a hazard to the user. Any design alterations or additions will make you, the service, responsible for personal injury or property damage resulting therefrom.

4) Observe original lead dress. Take extra care to assure correct lead dress in the following areas:
(1) near sharp edges, (2) near thermally hot parts (be sure that leads and components do not touch thermally hot parts), (3) the AC supply, (4) high voltage, and (5) antenna wiring. Always inspect in all areas for pinched, out-of-place, or frayed wiring, Do not change spacing between a component and the printed-circuit board. Check the AC power cord for damage.

5) Components, parts, and/or wiring that appear to have overheated or that are otherwise damaged should be replaced with components, parts and/ or wiring that meet original specifications.
Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

6) Product Safety Notice-Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by shading, an (⚠)or a (⚠)on schematics and parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might created shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

CAUTION : Before servicing Instruments covered by this service manual and its supplements, read and follow the Safety Precautions section of this manual.

Note : If unforseen circument create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions. Remember: Safety First.

1-2-1 General Servicing Precautions

(1) a. Always unplug the instrument's AC power cord from the AC power source before (1) re-moving or reinstalling any component, circuit board, module or any other instrument assembly, (2) disconnecting any instrument electrical plug or other electrical connection, (3) connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

b. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.

c. Do not apply AC power to this instrument and /or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.

d. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

Note : Refer to the Safety Precautions section ground lead last.

(2) The service precautions are indicated or printed on the cabinet, chassis or components. When servicing, follow the printed or indicated service precautions and service materials.

(3) The components used in the unit have a specified flame resistance and dielectric strength.
When replacing components, use components which have the same ratings. Components i-entified by shading, by(⚠) or by (⚠) in the circuit diagram are important for safety or for the characteristics of the unit. Always replace them with the exact replacement components.

(4) An insulation tube or tape is sometimes used and some components are raised above the printed wiring board for safety. The internal wiring is sometimes clamped to prevent contact with heating components. Install such elements as they were.

(5) After servicing, always check that the removed screws, components, and wiring have been installed correctly and that the portion around the serviced part has not been damaged and so on. Further, check the insulation between the blades of the attachment plug and accessible conductive parts.

1-2-2 Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power ON. Connect the insulation resistance meter (500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts(see note) should be more than 1 Megohm.

Note : Accessible conductive parts include metal panels, input terminals, earphone jacks, etc.

1-3 ESD Precautions

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity.
Such components commonly are called Electrostatically Sensitive Devices(ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

(1) Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

(2) After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

(3) Use only a grounded-tip soldering iron to solder or unsolder ESD devices.

(4) Use only an anti-static solder removal devices. Some solder removal devices not classified as “anti-static” can generate electrical charges sufficient to damage ESD devices.

(5) Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.

(6) Do not remove a replacement ESD device from its protective package until immediately before your are ready to install it.(Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).

(7) Immediately before removing the protective materials from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

(8) Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

1-4 Handling the optical pick-up

The laser diode in the optical pick up may suffer electrostatic breakdown because of potential static electricity from clothing and your body.

The following method is recommended.

(1) Place a conductive sheet on the work bench (The black sheet used for wrapping repair parts.)

(2) Place the set on the conductive sheet so that the chassis is grounded to the sheet.

(3) Place your hands on the conductive sheet(This gives them the same ground as the sheet.)

(4) Remove the optical pick up block

(5) Perform work on top of the conductive sheet. Be careful not to let your clothes or any other static sources to touch the unit.

◆ Be sure to put on a wrist strap grounded to the sheet.
◆ Be sure to lay a conductive sheet made of copper etc. Which is grounded to the table.

Fig.1-3

(6) Short the short terminal on the PCB, which is inside the Pick-Up ASS'Y, before replacing the Pick-Up. (The short terminal is shorted when the Pick-Up Ass'y is being lifted or moved.)

(7) After replacing the Pick-up, open the short terminal on the PCB.

1-5 Pick-up disassembly and reassembly

1-5-1 Disassembly

1) Remove the power cord.
2) Disassemble the Deck-Assy.
3) Make solder land 4 points short on Pick-up.
   (See Fig. 1-4)
4) Disassembly the Pick-up.

1-5-2 Assembly

1) Replace the Pick-up.
2) Remove the soldering 4 points on Pick-up.
   (See Fig. 1-4)
3) Reassemble the Deck-Assy.

Note : If the assembly and disassembly are not done in correct sequence, the Pick-up may be damaged.

Fig. 1-4

2. Disassembly and Reassembly

2-1 Cabinet and PCB

Note : Reassembly in reverse order.

2-1-1 Top Cabinet Removal

1) Remove 3 Screws ❶ on the back Top Cabinet.
2) Lift up the Top Cabinet in direction of arrow.

Fig. 2-1 Top Cabinet Removal

2-1-2 Ass'y Door-Tray Removal

1) Supply power and open Tray ❶.
2) Disassemble the Ass'y Door-Tray ❷ in direction of arrow "A".
3) Close Tray ❶ and power off.

Note : If Tray ❶ doesn't open, insert a Screw driver ❹ into the Emergency hole ❸ (as shown in detailed drawing) and then push it in the direction of arrow "B". Open Tray manually.

<Side View>

Fig. 2-2 Ass'y Door-Tray Removal

2-1-3 Ass'y Front-Cabinet Removal

1) Release 6 Hooks ❶, ❷, ❸, ❹ and remove Ass'y Front-Cabinet ❺.
2) Remove 2 Screws ❻ and Joy-Pad PCB ❼.

Fig. 2-3 Ass'y Front-Cabinet Removal

2-1-4 Ass'y Deck Removal

1) Disconnect Flat-Cable,Connect-Wire from DCN1, DCN2 on Main PCB.
2) Remove 3 Screws ❶ from the Ass'y Deck and lift it up.

Fig. 2-4 Ass'y Deck Removal

2-1-5 Main PCB, Jack PCB Removal

1) Remove 1 Screw ❶, 2 Screws ❷ and lift up the Jack PCB ❸.
2) Remove 4 Screws ❹ and lift up the Main PCB ❺.

Fig. 2-5 Main PCB, Jack PCB Removal

2-2 PCB Location

Fig. 2-6 PCB Location

2-3 Connector Diagram

NO.	CONNECTOR NO.	DIRECTION	CONNECTOR NO.	NO.
❶	FLAT-CABLE	DECK PCB ◄ CT1 ► MAIN PCB	DCN1	❷
❸	CONNECT-WIRE (HCN1)	HOUSING PCB ◄ CT2 ► MAIN PCB	DCN2	❹
❺	CN8	MAIN PCB ◄ CT3 ► JACK PCB	CN1	❻
❼	PCN1	MAIN PCB ◄ CT4 ► JACK PCB	PCNS1	❽
❾	DCN3	MAIN PCB ◄ CT5 ► JACK PCB	CN2	❶❶
❶❶	CN9	MAIN PCB ◄ CT6 ► JOY-PAD PCB	JCNS1	❶❷
❶❸	JCN1	JACK PCB ◄ CT7 ► JOY-PAD PCB	JCNS2	❶❹

Fig. 2-7 Connector Diagram

2-4 Deck

2-4-1 Tray Disc Removal

1) Insert a Screw Driver ❶ into Emergency Hole ❷ and push the Slider Housing ❸ in the direction arrow “A”.
2) When the Tray Disc ❹ comes out a little, pull it in the direction arrow “B” by hand.
3) Pull the Tray Disc ❹ to disassemble , while simultaneously pushing 2 Stoppers ❺ (left, right) in the direction arrow “C”, “D”.

Fig. 2-8 Tray Disc Removal

2-4-2 Assy P/U Deck Removal

1) Disconnect DCN2 ❶, DCN3 ❷.
2) Lift down the Assy P/U Deck ❸ while simultaneously pushing 2 Hooks ❹, ❺ in the direction of arrow "A", "B".

Fig. 2-9 Assy P/U Deck Removal

2-4-3 Housing Ass'y Removal

1) Remove Belt ❶.
2) Push the Hook ❷ in the direction arrow "A" and lift up Pulley Gear ❸.
3) Push the Slider Housing ❺ in the direction arrow "B" and lift up the Gear Tray ❹.
4) Lift up the Slider Housing ❺.
5) Remove the soldering ❻ of 2 points (Red, Black).
6) Remove 2 Screws ❼ and lift down the Motor Load Assy ❽.
7) Push the 3 Hooks ❾ bottom side in the direction arrow "C" and lift up the Housing PCB ❿.
8) Push the Hooks ⓫ and remove Deck PCB ⓬.

Fig. 2-10 Housing Ass'y Removal

2-4-4 Sub Chassis Removal

1) Remove the Soldering of Motor Feed (+, - wire) ❶.
2) Remove the 4 Screws ❷.
3) Lift up the Ass'y Brkt Deck ❸.

Fig. 2-11 Sub Chassis Removal

2-4-5 Ass'y Brkt Deck Removal

1) Remove Washer ❶.
2) Remove Gear Feed B ❷ , Gear Feed A ❸.
3) Remove 2 Screws ❹.
4) Remove Shaft Pick-Up ❺ and Pick-Up Assy ❻.
5) Remove 1 Screw ❼.
6) Remove 2 Screws ❽.
7) Remove 3 Spring Spindle ❾ and Motor Spindle Ass'y ❿.

Fig. 2-12 Ass'y Brkt Deck Removal

3. Troubleshooting

NO LD CD ON
B
RIC1-21 is 5V?
No
Check MIC1
Yes
Divide RQ1 emitter terminal voltage and 5V real voltage difference into 10ohm.
Yes
Current exceeds 0.1A?
No
Open check in related circuit.
Yes
LD out pick-up replace.

No pick-up home positing
SLD, SIC1-34 output is normal?
No
Check MIC1
Yes
LED+, SLED- SIC3-32, 33 output are normal?
No
Check SIC3
Yes
Check the Sled Motor and connection

FINE SEEK Check
FINE SEEK MIRR signal (RIC1-46) is missing?
Yes
Check RIC1 Peripheral curcuit.
No
TZCO signal (SIC1-24) is occurs?
No
Check SIC1 Peripheral curcuit.
Yes
Track incomming is delayed?
No
Time out due to many jump counts.
Yes
TE is within 2V and 3V?
No
SIC1-33 output is normal?
No
Check RIC1-26 terminal.
Yes
Pick-up transfer smooth.
No
Check MECHA.
Yes
Check SIC1 peripheral circuit.
Yes
SIC3-28, 29 terminal outputs are normal?
No
Check SIC3 peripheral circuit.
Yes
Check DCN1 and pick-up.

No Search Operation
MIRR, SIC1-157 output is normal?
No
RFAGCO, RIC1-72 output level is normal?
No
Check pick-up.
Yes
Check RIC1 peripheral circuit.
Yes
Actual velocity occurs at SIC1-34 terminal?
No
Check SIC1 peripheral circuit.
Yes
Actual velocity occurs at SIC4-32, 33 terminal?
No
Check SIC3 peripheral circuit.
Yes
SIC1-20 occurs in search range?
No
Focus On?
No
A
Yes
See "Fine Seek Check"

Abnormal rotation of disc motor
Input of RF signal is normal? (SIC1-15)
No
Yes
RIC1-71 output is normal?
No
Check RIC1 peripheral circuit and A, B, C, D.
Yes
RIC1-70 output are normal?
No
Check RIC1 soldering and power.
Yes
Check path to RIC1 and SIC1.
SPD output is normal? (SIC1-35)
No
After resoldering SIC1.
Yes
SIC3-2 output (FG) is normal?
No
Check SIC3 soldering and power.
Yes
SIC3-9 signal MON is "H" ?
No
Check SIC1, MIC1.
Yes
Check or replace disc motor.

Abnormal rotation of disc motor
Input of RF signal is normal? (SIC1-15)
No
Yes
RIC1-71 output is normal?
No
Check RIC1 peripheral circuit and A, B, C, D.
Yes
RIC1-70 output are normal?
No
Check RIC1 soldering and power.
Yes
Check path to RIC1 and SIC1.
SPD output is normal? (SIC1-35)
No
After resoldering SIC1.
Yes
SIC3-2 output (FG) is normal?
No
Check SIC3 soldering and power.
Yes
SIC3-9 signal MON is "H" ?
No
Check SIC1, MIC1.
Yes
Check or replace disc motor.

Digital output error
Output in NIC1-46 is normal?
No
Check NIC1 peripheral circuit.
Yes
Output in AIC3-6, 8, 10 is normal?
No
Check AIC3.
Yes
Check AVJ4, ACJ5 peripheral soldering shot.

CD/VCD/DVD L/R output error (Mixed Audio output)
Normal DATA 0 is input in AIC1-3?
No
Check NIC1-56 output.
Yes
Analog output of AIC1-9, 10, 11, 12 is normal?
No
Check NIC1-111 (CD/VCD ; 16.9344MHz, DVD ; 18.432MHz)
Yes
AOP1-1, 7 output is normal?
No
Check AOP1 peripheral circuit.
Yes
Base terminal level of AQ1, AQ3 are "L"?
No
Check FIC1-47 mute.
Yes
Check AVJ2 peripheral soldering shot.

• VIC1(M) : SAA7128
• VIC1(J) : MM1540
Video output error in RCA Jacks
Power level is normal at pin 6, 17, 20, 25, 28, 31, 36, 39 in VIC1(M)?
No
Check the connection between pin 2 in PIC5 and Emmiter in PQS58.
Yes
27MHz clock input is normal at pin 4 in VIC1(M)?
No
Check the connection between pin 4 in NIC4 and pin 4 in VIC1(M).
Yes
MRST is high state at pin 40 in VIC1(M)?
No
Check the connection between pin 27 in NIC7 and pin 40 in VIC1(M).
Yes
Control signal is normal at pin 41, 42 in VIC1(M)? (When power on or Tray open)
No
Check the connection between pin 161, 162 in NIC1 and pin 41, 42 in VIC1(M).
Yes
Video data are inputed normally at pin 9 ~ 16 in VIC1(M)?
No
Check the connection with pin 253, 235, 236, 216, 197, 255, 256, 217 in NIC1.
Yes
Analog signals output normally at pin 30, 27, 24, 29, 23, in VIC1(M)?
No
Check the soldering of VIC1(M).
No
Change VIC1(M).
Yes
C
No Power (120 Voltage) (Standby LED OFF)
PFD01 error?
Yes
Replace fuse.
No
PDS01 voltage is missing?
No
Check PDS01 ~ 04.
Yes
Collector of PQR11 output normal voltage?
No
Check 2'd voltage.
Yes
Operation of PQR11 is normal?
No
Replace PQR12.
Yes
Switching operation of PQR11 is normal?
Yes
Replace PQR11. Check feed back.
No
Replace PQR11.

• VIC1(M) ; SAA7128
• VIC1(J) ; MM1540
C
Analog signals are inputed normally at pin 2, 4, 6, 9, 11, 13 in VIC1(J)?
No
Check the connection between VIC1(M) and VIC1(J).
Yes
Power is normal at pin 1, 28 in VIC1(J)?
No
Check the connection between VIC1(J) and Emmiter of PQL58.
Yes
Pin 7, 8 in VIC1(J) is in Low state?
No
Connect to high.
Yes
Video signals of about 2V appear at pin 16, 18, 20, 23, 25, 27 in VIC1(J)?
No
Check the soldering of VIC1(J).
No
Change VIC1(J).
Yes
Video signals of about 1V appear at output jacks?
No
Check the connection between VIC1(J) and output jacks.
Yes
Check the RCA cable.

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4. Exploded View and Parts List

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4-1 Cabinet Assembly

Loc. No	Parts No.	Description ; Specification	Remark
1	AH97-00695A	ASSY FRONT CABINET;-,DVD-N501,-	
2	AH97-00739A	ASSY-DOOR TRAY;ABS 94HB,DVD-N501,-	
12	AH61-00792A	FOOT-FRONT;DVD-N501,ABS 94HB,-,BLK,-,-	
13	AH65-00003A	CLAMP-CORD POWER;DVD-M101,NYLON 66,-,-,-	
101	AH64-00933B	CABINET TOP;DVD-M301/XAA,SV227,PCM T0.65	
601	AH92-01045A	ASSY PCB-MAIN;DVD-N501,MAIN	
602	AH92-01046A	ASSY PCB-JACK;DVD-N501,JACK	
603	AH92-01064A	ASSY PCB-JOY PAD;DVD-N501,JOY PAD ASS'Y	
610	AC39-10200N	POWER-CORD;EP2,SPT-2,AWG#18,1.8MT,WAFER,	
CN1B	3809-001180	CABLE-FLAT;30V,-30to+80C,80mm,35P,1.25mm	
150	6003-000275	SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101	
151	6003-000276	SCREW-TAPTITE;BH,+,B,M3,L10,ZPC(YEL),SWC	
152	6003-000282	SCREW-TAPTITE;BH,+,B,M3,L8,ZPC(BLK),SWCH	
UT01	AH59-00093D	REMOCON-ASS'Y;DVD-N501/XAA,-,-,-,-,-,-,-	

4-2 Deck Assembly

Loc. No	Parts No.	Description ; Specification	Remark
900	6003-001157	SCREW-TAPTITE;PWH,+,B,M2,L6,ZPC(YEL),SWR	
901	6001-001332	SCREW-MACHINE;FH,+,M2,L8,ZPC(YEL),SWRCH1	
903	6009-001245	SCREW-SPECIAL;SWRCH18A,NYLOCK,SOCKET,HEX	
904	6001-001466	SCREW-MACHINE;BH,+,M2,L6,ZPC(BLK),SWRCH1	
906	AH60-00010A	SCREW-MACHINE-MOTOR;-,+,SWCH18AK,M1.7,L2	
H101	AH61-00512A	CHASSIS-HOUSING;DP-7,ABS(SR-0320),-,-,-,	
H102	AH66-00111B	CLAMPER-ASSY;DP-5,POM+MAGNET,-,-,-,-,-,-	
H103	AH66-00123A	PULLEY-GEAR;DP-7,POM M90-44,-,-,-,-,-,-	
H104	AH31-00024A	MOTOR-LOAD ASSY;SM-2412L2,DP-7,-,-,-,-,-	
H105	6602-001076	BELT-RECTANGULAR;CR,T1.2,4.3%,1.2X25.1,B	
H106	AH66-00124A	GEAR-TRAY;DP-7,POM,M90-44,-,-,-,-,-,-,-	
H107	AH66-00125A	SLIDER-HOUSING;DP-7,POM,-,-,-,-,-,-	
H108	AH63-00217A	TRAY-DISC;-,POM,-,-,-,-,BLK,DP-7	
H201	AH97-00561B	ASSY-BKRT-DECK;SECC+POM,DP-7,ª«≥ª¿‘∞Õ	
H202	AH73-00023C	RUBBER-INSULATOR;DP-7,BUTYL RUBBER,-,10	
H203	AH61-50327A	SHAFT-P/U;DP,SUS420J2,OD3,L84.7,S/FINISH	
H204	AH66-00075A	GEAR-FEED A;-,POM M90-44,-,-,-,-,-,-,-,-	
H205	AH66-00076A	GEAR-FEED B;-,POM M90-44,-,-,-,-,-,-,-,-	
H206	AC60-30306A	WASHER-SLIT;-,-,ID2.1,OD5.0,T0.5,-,POLYS	
H207	AH31-00022A	MOTOR-SPINDLE ASSY;RSM-2610D,DP-7,-,-,-,	
H208	AH61-00403A	SPRING-SPINDLE;-,SWPB,-,CS,PI4.9,PI0.7,-	
H209	AH61-00513A	CHASSIS-SUB;DP-7,ABS(SR-0320),-,-,-,-,-,	
H210	AH31-00016A	MOTOR-FEED ASSY;-,DP-5,-,-	
H211	AH97-00708A	ASSY-PICK-UP;-,SOH-DM2,ASSY-PICK-UP	
H240	AH92-00963A	ASSY-MILLENO DECK PCB 2LD;DVD-M101,MILLE	
H241	3809-001252	CABLE-FLAT;30V,80C,180mm,22P,1mm,UL2896	
H250	AH92-00900A	ASSY-HOUSING PCB;DVD-M101,MILLENO DECK(B	
DCN1B	3809-001180	CABLE-FLAT;30V,-30to+80C,80mm,35P,1.25mm	

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5. Electrical Parts List

Loc.No	Part No	Description ; Specification	Remark
601	**AH92-01045A**	**ASSY PCB-MAIN;DVD-N501,MAIN**	
CN8	3708-001364	CONNECTOR-FPC/FC/PIC;35P,1.25MM,STRAIGHT	
CN9	3711-001102	CONNECTOR-HEADER;BOX,7P,1R,2mm,STRAIGHT,	
CN9B	AH39-00324A	WIRE HARNESS;DVD-N501,SHIELD WIRE,-,7P,4	
DCN1	3708-001364	CONNECTOR-FPC/FC/PIC;35P,1.25MM,STRAIGHT	
DCN2	3711-001018	CONNECTOR-HEADER;BOX,5P,1R,2mm,STRAIGHT,	
DCN3	3711-000907	CONNECTOR-HEADER;BOX,3P,1R,2mm,STRAIGHT,	
FSW2	3404-001164	SWITCH-TACT;12V DC,50MA,100GF,7X7X6.7MM,	
FSW3	3404-001163	SWITCH-TACT;12V DC,50mA,100gf,6.55X7.5,S	
JC1	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
JC13	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
JC2	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
JC4	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
JIC2	0801-002656	IC-CMOS LOGIC;74HC244,BUFFER/DRIVER,SOIC	
JL2	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
JPR1	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
JQ1	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
JQ2	0501-000279	TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT-	
JQ3	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
JQ4	0501-002268	TR-SMALL SIGNAL;STB1277,PNP,625mW,TO-92,	
JR1	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
JR10	2007-000071	R-CHIP;22ohm,5%,1/16W,DA,TP,1608	
JR11	2007-000071	R-CHIP;22ohm,5%,1/16W,DA,TP,1608	
JR12	2007-001134	R-CHIP;68ohm,5%,1/16W,DA,TP,1608	
JR13	2007-001134	R-CHIP;68ohm,5%,1/16W,DA,TP,1608	
JR14	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
JR2	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
JR25	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
JR26	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
JR27	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
JR3	2007-000123	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1608	
JR4	2007-000502	R-CHIP;2.2OHM,5%,1/10W,DA,TP,2012	
JR5	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
JR6	2007-000965	R-CHIP;5.1Kohm,5%,1/16W,DA,TP,1608	
JR7	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
JR8	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
JR9	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LUG1	AH65-00001A	CLAMP-CORD;-,DALA-2,-,BLK,XAA,DVD-909	
MC1	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC10	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC11	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
MC12	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC14	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC16	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC18	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
MC19	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
MC2	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC3	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
MC4	2203-000426	C-CERAMIC,CHIP;0.018nF,5%,50V,NP0,TP,160	
MC5	2203-000426	C-CERAMIC,CHIP;0.018nF,5%,50V,NP0,TP,160	
MC6	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC7	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
MC8	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MC9	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
MIC1	0903-001224	IC-MICROCONTROLLER;91C219,16Bit,QFP,100P	
MIC2	3704-000472	SOCKET-IC;32P,DIP,SN,2.54mm	
MIC2B	1102-001102	IC-EPROM;27C020,256Kx8Bit,DIP,32P,600MI	
MIC6	0801-002143	IC-CMOS LOGIC;7S32,OR GATE,SOT-23,5P,63M	
MR1	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
MR10	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR11	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
MR12	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR13	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR14	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR15	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR16	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
MR19	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
MR2	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR21	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR26	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
MR3	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR32	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
MR33	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
MR34	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
MR4	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR5	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
MR8	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR9	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MY1	2801-000199	CRYSTAL-UNIT;20MHz,50ppm,28-AAA,16pF,50o	
NC1	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC13	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC14	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC15	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC16	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC17	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC18	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC19	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC2	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC20	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC22	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC23	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC24	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC25	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC26	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC27	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC28	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC29	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
NC3	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC30	2203-001567	C-CERAMIC,CHIP;0.01nF,0.5pF,50V,NP0,TP,1	
NC31	2203-001567	C-CERAMIC,CHIP;0.01nF,0.5pF,50V,NP0,TP,1	
NC33	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC35	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC36	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC37	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC38	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC39	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC4	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC40	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC41	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC42	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC43	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC44	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC45	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC46	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC47	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC49	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC5	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC50	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
NC51	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC52	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC53	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC54	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	

Loc.No	Part No	Description ; Specification	Remark
NC55	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC56	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC57	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC58	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
NC59	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
NC6	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
NC60	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
NC61	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC62	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC63	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC64	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC65	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
NC69	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC7	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC70	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC8	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
NC80	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NC81	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
NC9	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
NC90	2203-001636	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
NC91	2203-001636	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
NC92	2203-001636	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
NC94	2203-001636	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
NE1	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
NE11	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
NE12	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
NE51	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
NE52	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
NI1	2801-003934	CRYSTAL-UNIT;108MHz,20ppm,28-AAM,S-6khz	
NIC1	1204-001784	IC-DECODER;XCMMP-L3BZP,BGA,272P,1062MIL,	
NIC10	0801-002605	IC-CMOS LOGIC;74VHC574,FLIP-FLOP,SOP,20P	
NIC11	1107-001255	IC-FLASH MEMORY;49BV1614,1Mx16/2Mx8Bit,T	
NIC12	1105-001305	IC-DRAM;4S641632,1Mx16x4Bit,TSOP,54P,4	
NIC13	1209-001283	IC-PLL;PLL1700E,SSOP,20P,7MIL,PLASTIC	
NIC15	1203-001828	IC-VOLTAGE REGULATOR;07VZ012,-,5P,-,PLAS	
NIC16	0801-002604	IC-CMOS LOGIC;74HCT244,BUFFER,SOP,20P,20	
NIC18	0801-002237	IC-CMOS LOGIC;74HC04,INVERTER GATE,SOP,5	
NIC19	0801-002097	IC-CMOS LOGIC;7ST08,AND GATE,SOP,5P,110M	
NIC2	1105-001305	IC-DRAM;4S641632,1Mx16x4Bit,TSOP,54P,4	
NIC21	0801-002476	IC-CMOS LOGIC;7WZ16,BUFFER,SC70,6P,49MIL	
NIC4	AH14-10004R	IC;M74HCU04,SOP,TAPE 14P	
NIC5	1103-001204	IC-EEPROM;24C021,256x8Bit,SOP,8P,150MIL,	
NIC6	0801-002237	IC-CMOS LOGIC;74HC04,INVERTER GATE,SOP,5	
NIC7	1301-001470	IC-GATE ARRAY;999,PLCC,44P,-,-,3.3V,-,-,	
NIC8	0801-002605	IC-CMOS LOGIC;74VHC574,FLIP-FLOP,SOP,20P	
NIC9	0801-002605	IC-CMOS LOGIC;74VHC574,FLIP-FLOP,SOP,20P	
NL1	3301-000325	CORE-FERRITE BEAD;AB,3.2x2.5x1.3mm,-,-	
NL11	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL12	3301-001051	CORE-FERRITE BEAD;AB,1kohm,1.6x0.8x0.8mm	
NL13	3301-001051	CORE-FERRITE BEAD;AB,1kohm,1.6x0.8x0.8mm	
NL14	3301-001051	CORE-FERRITE BEAD;AB,1kohm,1.6x0.8x0.8mm	
NL15	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL16	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL17	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL18	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL3	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL31	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL32	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL33	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL34	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL35	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL36	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL37	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL38	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL41	3301-001051	CORE-FERRITE BEAD;AB,1kohm,1.6x0.8x0.8mm	
NL42	3301-001051	CORE-FERRITE BEAD;AB,1kohm,1.6x0.8x0.8mm	

Loc.No	Part No	Description ; Specification	Remark
NL43	3301-001051	CORE-FERRITE BEAD;AB,1kohm,1.6x0.8x0.8mm	
NL5	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL51	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL52	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL6	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL7	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL8	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL90	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL91	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL92	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL93	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL94	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL95	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NL96	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
NPC3	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
NPE3	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
NR1	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR10	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR100	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
NR101	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR11	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR12	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR13	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR14	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR15	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR16	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR17	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR18	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR19	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR2	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR20	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR21	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR22	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR24	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR25	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
NR26	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
NR27	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
NR28	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR29	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
NR3	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR30	2007-001044	R-CHIP;56ohm,5%,1/16W,DA,TP,1608	
NR32	2007-000072	R-CHIP;47ohm,5%,1/16W,DA,TP,1608	
NR33	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
NR34	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR35	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR36	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR37	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR4	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR40	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR41	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
NR42	2007-001044	R-CHIP;56ohm,5%,1/16W,DA,TP,1608	
NR43	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
NR44	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR45	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR46	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR47	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR48	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR49	2007-000080	R-CHIP;2Kohm,5%,1/16W,DA,TP,1608	
NR5	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR50	2007-001044	R-CHIP;56ohm,5%,1/16W,DA,TP,1608	
NR53	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
NR6	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR7	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR70	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR71	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR72	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
NR73	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR74	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR75	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR76	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR77	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR78	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR79	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR8	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR9	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
NR90	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR91	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR92	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR93	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR94	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR95	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
NR96	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
NR97	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
NR98	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
NR99	2007-000402	R-CHIP;150ohm,5%,1/16W,DA,TP,1608	
NRA1	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
NRA2	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
NRA3	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
NRA4	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
NRA5	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
NRA6	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
NRA7	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
NRA8	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
NRA9	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
PCB	AH41-00324A	PCB-MAIN;DVD-N501,EPOXY,2L,-,1.6T,220X1	
PCC1	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
PCC2	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
PCC3	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
PCC4	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
PCN1	3711-000596	CONNECTOR-HEADER;BOX,10P,1R,2mm,STRAIGHT	
PE1	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PE2	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PE3	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PE4	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PE5	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PWIC1	1203-001293	IC-POSI.FIXED REG.;033,T0-252,3P,6.5MIL,	
R1	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R2	2007-000080	R-CHIP;2Kohm,5%,1/16W,DA,TP,1608	
R3	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R4	2007-000080	R-CHIP;2Kohm,5%,1/16W,DA,TP,1608	
R5	2007-000087	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608	
RC1	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,	
RC10	2401-000913	C-AL;22uF,20%,16V,GP,TP,5x11,5	
RC12	2401-000913	C-AL;22uF,20%,16V,GP,TP,5x11,5	
RC13	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RC14	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RC14A	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC15	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC16	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
RC17	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
RC18	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
RC19	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,	
RC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC20	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
RC21	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,	
RC22	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC22A	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RC23	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC24	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC26	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC27	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC29	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	

Loc.No	Part No	Description ; Specification	Remark
RC3	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC30	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC31	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
RC32	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
RC33	2203-005065	C-CERAMIC,CHIP;1000nF,+80-20%,10V,Y5V,TP	
RC34	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
RC35	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC37	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
RC38	2203-000140	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP,1608	
RC39	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
RC39A	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RC4	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC40	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
RC41	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RC42	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC5	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC50	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
RC6	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC7	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RC8	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
RE1	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
RIC1	AH13-00007A	IC ASIC;KS1462,DVD-611/XAA,80,+5V,-40t	
RL11	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
RL3	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
RQ1	0501-000279	TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT-	
RQ2	0501-000279	TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT-	
RQ3	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
RR1	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RR10	2007-000312	R-CHIP;10OHM,5%,1/8W,DA,TP,3216	
RR12	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR13	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR14	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
RR15	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RR16	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RR2	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608	
RR21	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RR22	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RR23	2007-000655	R-CHIP;27Kohm,5%,1/16W,DA,TP,1608	
RR24	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608	
RR26	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR27	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RR3	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
RR32	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR33	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR34	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
RR4	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608	
RR42	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608	
RR6	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
RR7	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
RR8	2007-000312	R-CHIP;10OHM,5%,1/8W,DA,TP,3216	
RR9	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
SC10	2203-001634	C-CERAMIC,CHIP;33nF,10%,50V,X7R,TP,1608,	
SC11	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608	
SC12	2203-000140	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP,1608	
SC13	2203-001652	C-CERAMIC,CHIP;470nF,+80-20%,16V,Y5V,TP,	
SC14	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC15	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC16	2203-002398	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,1608	
SC17	2203-001126	C-CERAMIC,CHIP;0.68nF,10%,50V,X7R,TP,160	
SC18	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC19	2203-002398	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,1608	
SC2	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC20	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
SC21	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC22	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
SC23	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
SC24	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608	
SC25	2203-000372	C-CERAMIC,CHIP;15nF,10%,50V,X7R,TP,1608,	
SC26	2203-000372	C-CERAMIC,CHIP;15nF,10%,50V,X7R,TP,1608,	
SC27	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC28	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC29	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC30	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC31	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC32	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC33	2203-000681	C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,160	
SC34	2203-000681	C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,160	
SC35	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC36	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC37	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC38	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC39	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
SC40	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
SC41	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
SC42	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC43	2203-000626	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,160	
SC44	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC45	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC46	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC47	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC48	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
SC49	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC50	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC51	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC52	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC54	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP,1608	
SC55	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC56	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC57	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC58	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC59	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC60	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC61	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC62	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
SC63	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
SC7	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP,1608	
SC8	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
SC9	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
SC90	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
SE1	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
SE10	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
SE11	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
SE3	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
SE4	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
SE6	2401-001225	C-AL;4.7uF,20%,16V,GP,TP,3x5,5	
SE7	2401-001225	C-AL;4.7uF,20%,16V,GP,TP,3x5,5	
SE8	2401-001225	C-AL;4.7uF,20%,16V,GP,TP,3x5,5	
SE9	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
SIC1	AH13-00006A	IC ASIC;KS1454,DVD-611/XAA,160,+3.3V,+	
SIC2	1105-001243	IC-DRAM;416C256,256KX16BIT,SOJ,40P,400	
SIC3	1003-001298	IC-MOTOR DRIVER;KA3017,HQFP,48P,550MIL,1	
SIC4	0801-002097	IC-CMOS LOGIC;7ST08,AND GATE,SOP,5P,110M	
SL1	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
SL2	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
SQ1	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
SR1	2007-000381	R-CHIP;13Kohm,5%,1/16W,DA,TP,1608	
SR14	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
SR15	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR16	2007-000133	R-CHIP;330Kohm,5%,1/16W,DA,TP,1608	
SR17	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
SR18	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
SR19	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
SR20	2007-001235	R-CHIP;910Kohm,5%,1/16W,DA,TP,1608	
SR21	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
SR23	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
SR24	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
SR25	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
SR26	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
SR27	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
SR29	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
SR30	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
SR31	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
SR32	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
SR4	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
SR40	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
SR44	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
SR48	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
SR49	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR50	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR51	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR52	2007-001235	R-CHIP;910Kohm,5%,1/16W,DA,TP,1608	
SR55	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR56	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR57	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
SR58	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
SR59	2007-000087	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608	
SR60	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
SR61	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608	
SR67	2007-000034	R-CHIP;1OHM,5%,1/4W,DA,TP,3216	
SR68	2007-000034	R-CHIP;1OHM,5%,1/4W,DA,TP,3216	
SR69	2007-000655	R-CHIP;27Kohm,5%,1/16W,DA,TP,1608	
SR70	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR71	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR72	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR73	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR74	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
SR75	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
SR76	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
SR77	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
SR79	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR8	2007-000799	R-CHIP;360ohm,5%,1/16W,DA,TP,1608	
SR9	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
SRN1	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
SRN2	2011-000816	R-NETWORK;100ohm,5%,63mW,L,CHIP,8P,TP	
SVR1	2104-001068	VR-SMD;10Kohm,25%,1/20W,TOP	
SY1	2801-000261	CRYSTAL-UNIT;33.8688MHz,50ppm,28-AAA,12p	
VC1	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
VC13	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
VC14	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
VC15	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
VC2	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
VC3	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
VC4	2203-000426	C-CERAMIC,CHIP;0.018nF,5%,50V,NP0,TP,160	
VE1	2401-002042	C-AL;220uF,20%,10V,GP,TP,6.3x11,5	
VE2	2401-002042	C-AL;220uF,20%,10V,GP,TP,6.3x11,5	
VE3	2401-002042	C-AL;220uF,20%,10V,GP,TP,6.3x11,5	
VE5	2401-001353	C-AL;470uF,20%,10V,GP,TP,8x11.5,5	
VIC1	1204-001366	IC-VIDEO ENCODER;SAA7128,QFP,44P;-,PLAST	
VL1	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
VL2	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
VR1	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
VR10	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR11	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR12	2007-000539	R-CHIP;200ohm,5%,1/16W,DA,TP,1608	
VR13	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
VR14	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
VR15	2007-000729	R-CHIP;300ohm,5%,1/16W,DA,TP,1608	
VR16	2007-000076	R-CHIP;330ohm,5%,1/16W,DA,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
VR17	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
VR18	2007-000123	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1608	
VR19	2007-000081	R-CHIP;2.7Kohm,5%,1/16W,DA,TP,1608	
VR2	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
VR20	2007-000123	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1608	
VR21	2007-000081	R-CHIP;2.7Kohm,5%,1/16W,DA,TP,1608	
VR22	2007-000123	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1608	
VR23	2007-000081	R-CHIP;2.7Kohm,5%,1/16W,DA,TP,1608	
VR3	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR4	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR5	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR6	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR7	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR8	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR9	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
602	**AH92-01046A**	**ASSY PCB-JACK;DVD-N501,JACK**	
AC10	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
AC11	2203-000716	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012	
AC13	2203-000716	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012	
AC14	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
AC15	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
AC201	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
AC202	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
AC203	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
AC4	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
AC5	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
AC7	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
AC8	2203-000938	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,2012	
AC9	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
ACC2	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	
ACC3	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	
AD1	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD2	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD51	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD54	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
AD55	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
AE201	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
AE21	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
AE22	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
AE3	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
AE51	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5	
AE52	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
AE6	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
AE9	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
AIC1	1002-001241	IC-D/A CONVERTER;AK4382VT,24BIT,TSSOP,16	
AIC3	AH14-10004R	IC;M74HCU04,SOP,TAPE 14P	
AL1	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
AL2	3301-000353	CORE-FERRITE BEAD;AB,120ohm,2x1.25x0.9mm	
AL201	2901-001125	FILTER-EMI ON BOARD;50V,0.5A,-,220pF,7x2	
AOP1	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL,100V/m	
AQ1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
AQ3	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
AQ4	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
AQ5	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AQ51	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
AQ52	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AQ55	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,	
AQ6	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
AQ7	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AR1	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
AR14	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR15	2007-000026	R-CHIP;200OHM,5%,1/10W,DA,TP,2012	
AR16	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR17	2007-000026	R-CHIP;200OHM,5%,1/10W,DA,TP,2012	
AR18	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	

Loc.No	Part No	Description ; Specification	Remark
AR19	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR2	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
AR201	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
AR202	2001-001035	R-CARBON;91OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR203	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR21	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
AR22	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	
AR24	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR26	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR28	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR29	2007-000026	R-CHIP;200OHM,5%,1/10W,DA,TP,2012	
AR3	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
AR30	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR31	2007-000026	R-CHIP;200OHM,5%,1/10W,DA,TP,2012	
AR32	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR33	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR35	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
AR36	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	
AR38	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR4	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
AR40	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR5	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
AR51	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
AR54	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR55	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
AR56	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AVJ1	3722-001469	JACK-RCA;3P/4P,3.2mm,NI,BLK,-	
AVJ2	3722-001467	JACK-RCA;3P,3.2mm,NI,BLK,-	
AVJ4	3722-001053	JACK-RCA;1P,3.2mm,NI,BLK,-	
AVJ5	3707-001005	CONNECTOR-OPTICAL;PLUG,SM,-,4.4/2.0MM	
CN1	3708-001364	CONNECTOR-FPC/FC/PIC;35P,1.25MM,STRAIGHT	
CN2	AH39-00267A	CONNECT WIRE;-,#26,-,03P,-,WHITE/BLK,-,-	
FC10	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
FC14	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
FC15	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
FC16	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
FC2	2202-000789	C-CERAMIC,MLC-AXIAL;12pF,5%,50V,SL,TP,3.	
FC21	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
FC3	2202-000789	C-CERAMIC,MLC-AXIAL;12pF,5%,50V,SL,TP,3.	
FC4	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
FC6	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
FD10	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
FD9	0403-000551	DIODE-ZENER;MTZ3.9B,3.9V,3.89-4.16V,500m	
FE1	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
FE12	2401-000922	C-AL;22uF,20%,16V,GP,TP,5x5,5	
FE5	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
FE8	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
FIC1	AH09-00040C	IC MICOM;uPD780232GC-024-8BT,SV-2000M/T	
FIC2	1203-001252	IC-VOL. DETECTOR;7545,TO-92,3P,-,PLASTIC	
FIC4	AC32-00006A	MODULE REMOCON;TSOP2238WE1,38KHZ,-,5.08m	
FL1	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
FL2	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
FQ1	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
FR1	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR10	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR101	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR102	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR11	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR12	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR13	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR16	2001-000027	R-CARBON;100OHM,5%,1/4W,AA,TP,2.4X6.4MM	
FR17	2001-000027	R-CARBON;100OHM,5%,1/4W,AA,TP,2.4X6.4MM	
FR19	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR21	2001-000435	R-CARBON;1MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR24	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR25	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc.No	Part No	Description ; Specification	Remark
FR26	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR2S	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR3S	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR43	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR44	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR45	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR46	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR4S	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR5	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR51	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR52	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR53	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR54	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR57	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR59	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR6	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR7	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR71	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR72	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR73	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR74	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR8	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR82	2001-000007	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR83	2001-000007	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FY1	2801-003868	CRYSTAL-UNIT;5MHz,30ppm,28-AAA,12pF,100o	
JC1	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
JC2	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
JCN1	3711-000907	CONNECTOR-HEADER;BOX,3P,1R,2mm,STRAIGHT,	
PBR11	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
PBR21	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
PBR22	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
PBS01	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
PCD02	2201-000828	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,15x	⚠
PCD03	2201-000828	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,15x	⚠
PCD12	2201-000930	C-CERAMIC,DISC;0.22nF,10%,500V,Y5P,TP,5.	
PCNS1	AH39-00283A	CONNECT WIRE;-,#24,-,-,-,WHITE/BLK,-,-,-	
PCNS2	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96mm,STRA	⚠
PCR01	2201-000795	C-CERAMIC,DISC;10nF,10%,400V,Y5P,TP,15x1	⚠
PCR02	2201-000828	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,15x	
PCR11	2201-000930	C-CERAMIC,DISC;0.22nF,10%,500V,Y5P,TP,5.	
PCR13	2301-000180	C-FILM,PEF;18nF,0.05,100V,TP,7.2x4.5x8.0	
PCR14	2301-000417	C-FILM,PEF;24nF,5%,50V,TP,6.5x10.5x4mm,5	
PCR15	2301-000423	C-FILM,PEF;3.3nF,5%,100V,TP,7x10x4.5mm,5	
PCS03	2201-000916	C-CERAMIC,DISC;100pF,10%,400V,Y5U,TP,10x	⚠
PCS31	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
PCS32	2301-000129	C-FILM,PEF;100nF,5%,50V,TP,10X9X4.3X5,5m	
PDD35	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
PDR11	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
PDR12	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
PDS01	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
PDS02	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
PDS03	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
PDS04	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
PDS11	0402-000012	DIODE-RECTIFIER;UF4007,1KV,1A,DO-41,TP	
PDS31	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
PDS32	0402-001194	DIODE-RECTIFIER;UG2D,200V,2A,DO-204AC,TP	
PDS33	0404-001097	DIODE-SCHOTTKY;SG45,45V,7500mA,TO-220A,B	
PDS34	0404-001097	DIODE-SCHOTTKY;SG45,45V,7500mA,TO-220A,B	
PDS36	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
PDS51	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
PDS52	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
PER10	2401-003365	C-AL;150uF,20%,200V,GP,TP,18x25,7.5	
PER11	2401-001235	C-AL;4.7uF,20%,250V,WT,TP,10x12.5,5	
PER12	2401-000905	C-AL;22uF,20%,16V,BP,-,6x11,2.5mm	
PES31	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PES32	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	

Loc.No	Part No	Description ; Specification	Remark
PES33	2401-003059	C-AL;1000UF,20%,16V,WT,TP,10X16,5	
PES34	2401-000118	C-AL;1000uF,20%,10V,GP,TP,10x12.5,5	
PES35	2401-003046	C-AL;47uF,20%,50V,WT,TP,6.3x11,2.5	
PES36	2401-001353	C-AL;470uF,20%,10V,GP,TP,8x11.5,5	
PES37	2401-002042	C-AL;220uF,20%,10V,GP,TP,6.3x11,5	
PES51	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
PES52	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
PES53	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PES54	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
PES56	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PES57	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
PES58	2401-001353	C-AL;470uF,20%,10V,GP,TP,8x11.5,5	
PES59	2401-001353	C-AL;470uF,20%,10V,GP,TP,8x11.5,5	
PFD01	3601-000194	FUSE-CARTRIDGE;250V,1A,FAST-ACTING,GLASS	⚠
PICS1	0604-000186	PHOTO-COUPLER;TR,-,200mW,DIP-4,ST	⚠
PICS2	AC14-12006D	IC;KA431Z,TO-92,TAPING	
PICS3	1203-000122	IC-NEGA.FIXED REG.;7908,TO-220,3P,-,PLAS	
PICS4	1203-001697	IC-VOLTAGE REGULATOR;78R08,TO-220,4P,-,P	
PICS5	1203-001083	IC-VOLTAGE REGULATOR;3RF23,TO-202,4P,12.	
PICS6	1203-001083	IC-VOLTAGE REGULATOR;3RF23,TO-202,4P,12.	
PLS01	AC29-00003A	FILTER LINE NOISE;-,20mH MIN,-,-,-	⚠
PLS31	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
PQE31	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
PQR11	0502-000405	TR-POWER;-,NPN,70W,TO-220,BK,10	
PQR12	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
PQS55	0504-000152	TR-DIGITAL;KSR2101,PNP,200mW,4.7K/4.7K,S	
PQS56	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
PQS57	0502-000416	TR-POWER;2SD1273P,NPN,2W,TO-220F,BK,800	
PQS58	0502-000416	TR-POWER;2SD1273P,NPN,2W,TO-220F,BK,800	
PR8	2003-000994	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x	
PRD11	2003-000119	R-METAL OXIDE;0.68ohm,5%,2W,AE,TP,6x16mm	
PRD31	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRD32	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
PRE31	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRR11	2003-002117	R-METAL OXIDE(S);330Kohm,5%,1W,AA,TP,3.3	
PRR12	2003-000314	R-METAL OXIDE;47ohm,5%,2W,AE,TP,6x16mm	
PRR13	2003-000314	R-METAL OXIDE;47ohm,5%,2W,AE,TP,6x16mm	
PRR14	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
PRR15	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
PRR17	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
PRS12	2003-000994	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x	
PRS31	2001-000440	R-CARBON;1OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRS32	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRS33	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
PRS34	2004-000459	R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.8x3.2m	
PRS53	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PRS54	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
PRS55	2001-000062	R-CARBON;470OHM,5%,1/4W,AA,TP,2.4X6.4MM	
PRS56	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PTD1	AH26-00098A	TRANS SWITCHING;EE2621,DVD-P480,-,AC120V	⚠
PVA1	1405-000186	VARISTOR;470V,2500A,17.5x7.5mm,TP	⚠
PZR31	0403-001036	DIODE-ZENER;1N4745A,16V,5%,1W,DO-41,TP	
PZS51	0403-000717	DIODE-ZENER;MTZJ5.1B,5.1V,4.94-5.2V,500m	
RA1	2011-001357	R-NETWORK;51K,5%,1/8W,A,SIP,11P,BK	
RA2	2011-001357	R-NETWORK;51K,5%,1/8W,A,SIP,11P,BK	
RA3	2011-001357	R-NETWORK;51K,5%,1/8W,A,SIP,11P,BK	
SVJ1	3722-001375	JACK-DIN;4P,-,NI,BLK,-	
VC1	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
VC11	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
VC12	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
VC2	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
VC3	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
VC4	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
VC5	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
VC6	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
VCC1	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	

Loc.No	Part No	Description ; Specification	Remark
VCC2	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	
VCC3	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	
VCC4	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	
VCC5	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	
VCC6	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,2012	
VE1	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
VE11	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5	
VE12	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
VE2	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
VE3	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
VE4	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
VE5	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
VE6	2401-001479	C-AL;470uF,20%,10V,GP,TP,-,-	
VFD1	AH07-00043A	VF DISPLAY;-,DVD-M201,74X9.0mm,1/13.75,9	
VIC1	1201-001719	IC-VIDEO AMP;1540,SOP,28P,299MIL,-,6dB,P	
VL1	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
VR1	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
VR11	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR12	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR13	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR14	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR15	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR16	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VR5	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
VR6	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
VR7	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
701	**AH92-01064A**	**ASSY PCB-JOY PAD;DVD-N501,JOY PAD ASS'Y**	
JCNS1	3711-001102	CONNECTOR-HEADER;BOX,7P,1R,2mm,STRAIGHT,	
JCNS2	AH39-00267A	CONNECT WIRE;-,#26,-,03P,-,WHITE/BLK,-,-	
JL1	2901-001184	FILTER-EMI ON BOARD;50V,0.5A,-,220pF,7x2	
JL2	2901-001184	FILTER-EMI ON BOARD;50V,0.5A,-,220pF,7x2	
JL3	2901-001184	FILTER-EMI ON BOARD;50V,0.5A,-,220pF,7x2	
JL4	2901-001184	FILTER-EMI ON BOARD;50V,0.5A,-,220pF,7x2	
JL5	2901-001184	FILTER-EMI ON BOARD;50V,0.5A,-,220pF,7x2	
JSJ1	3722-001455	JACK-DIN;4P,-,AU30U,BLK,-	
JSJ2	3722-001455	JACK-DIN;4P,-,AU30U,BLK,-	
KD1	0601-001447	LED;ROUND,RED,3.1mm,650nm	
KSW1	3404-001164	SWITCH-TACT;12V DC,50MA,100GF,7X7X6.7MM,	
H240	**AH92-00963A**	**ASSY-MILLENO DECK PCB 2LD;DVD-M101,MILLE**	
DC1	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
DC2	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
DCN1	3708-001364	CONNECTOR-FPC/FC/PIC;35P,1.25MM,STRAIGHT	
DCN2	3708-001593	CONNECTOR-FPC/FC/PIC;22P,1mm,ANGLE,SN	
DCN3	3708-001589	CONNECTOR-FPC/FC/PIC;13P,1mm,ANGLE,SN	
DD1	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
DD2	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
DR1	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR2	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR3	2001-000325	R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR4	2001-000325	R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM	
H250	**AH92-00900A**	**ASSY-HOUSING PCB;DVD-M101,MILLENO DECK(B**	
HCN1	AH39-00266A	CONNECT WIRE;-,#26,-,-,-,WHT/BLK,-,-,-,-	
HSW1	3409-001119	SWITCH-DETECTOR;5V DC,1.0A,DPST,30gf,-	

Loc.No	Part No	Description ; Specification	Remark

MEMO

6. Block Diagram

MEMO

7. PCB Diagrams

7-1 Main - 7-2

7-2 Jack - 7-3

7-3 Joy-Pad - 7-4

7-4 Deck - 7-4

7-5 Housing - 7-4

7-1 Main

COMPONENT SIDE

SOLDER SIDE

7-2 Jack

7-3 Joy-Pad

7-4 Deck

7-5 Housing

8. Wiring Diagram

MEMO

9. Schematic Diagrams

9-1 S.M.P.S. - 9-2

9-2 Servo/Key - 9-3

9-3 MPEG Decoder - 9-4

9-4 Video - 9-5

9-5 Audio - 9-6

9-6 Front - 9-7

9-7 Joystick - 9-8

9-7 Deck - 9-9

Block Identification of PCB

Main PCB (Component Side)

Jack PCB (Component Side)

9-1 S.M.P.S.

IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED WITH THE MARK ⚠. HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.
NOTE:WHEN YOU CHECK THE VOLTAGE OF THE PARTS IN HOT CIRCUIT. CONNECT PRIMARY GND TO THE GND TERMINAL.
HOT
TO FRONT
TO MUTE
TO AUDIO
PCNS1
TO Servo PCN1
PTD1
TRANS
RCC 230V ONLY
RCC 120V ONLY
RCC POTION
120V ONLY
EU OPTION
SAVE OPTION
H/S
FREE
PRIMARY GND
PRECISION REFERENCE SMPS BLOCK

9-2 Servo/Key

RIC1
KA1462X
MIC1
TMP91C219
MIC2
A290021T
SIC3
KA3017
SIC2
M11B416256A
SIC1
KS1454X
DCN1
DCN2
DCN3
PCN1
TO/FROM
MPEG Decoder

9-3 MPEG Decoder

9-4 Video

JCN1
DNGD
LED
ANI2
TO/FROM JOYSTICK JCNS2
DGND
CN1
IEC958
DGND
DA-LRCK
DA-BCK
DA-XCK
DA-DATA2
DA-DATA1
DA-DATA0
AGND
CR
C
G(Y)
VBS
CB
CVBS
MRST
RRQ
SRQ
TXD
RXD
SCLK
ANI2
LED
TO MPEG Decoder CN8
TO/FROM FRONT
TO AUDIO
IES958
VIC1
MM1540
VEE1
CrIN
Du/S1
CbIN
GND
YIN2
MUTE2
MUTE1
YIN1
CLP
CIN
YCMIX
VIN
VCC1
VEE2
CrOUT
PS2
CbOUT
YOUT2
YOUT1
COUT
PS1
VOUT
VCC2
P+8V
VL1 10uH
AGND
AVJ1 Pr(R)
AVJ1 Pb(B)
AVJ1 Y(G)
SVJ1 S-JACK
AVJ2 COMPO-1
AVJ2 COMPO-2

9-5 Audio

FROM SMPS
+5D
P-8V
P+8V
A5V
+12V
FROM VIDEO
IES958
IEC958
DA-XCK
DA-BCK
DA-DATAO
DA-LRCK
FROM FRONT
DARST
CS1
CCLK
CDTI
AMUTO
AIC1
AK4382
MCLK
BICK
SDTI
LRCK
/PDN
CSN
CCLK
CDTI
DZFL
DZFR
VDD
VSS
AOUTL+
AOUTL-
AOUTR+
AOUTR-
AVJ5
GP1F32T
GND
VCC
VIN
AVJ4
COX/D
AVJ2
M/L2
AVJ2
M/L1
AVJ2
M/R1
AVJ2
M/R2
AGND
DGND
MUTE1
DMR-
DMR+
DML-
DML+
AQ55
KSA928A
AQ51
KSR1103
AQ52
KSR2103
AQ4
KSR1103
AQ5
KSR2103
AQ6
KSR1103
AQ7
KSR2103
AQ1
C945
AQ3
C945
AOP1
BA4560
AL1
BLM21A121S
AL2
BLM21A121S
AL201
TU20MT
M74HCU04

9-6 Front

VFD1
SVV-08MS19
TO SMPS
TO VIDEO
TO AUDIO
FIC1
uPD780232
FIC2
KA7545
FIC4
GP1U281Q
CN2
TO/FROM
Servo
DCN3
FQ1
C1623
FR55/56 OPTION
KARAOKE:FR56-OPEN
NON KARA:FR55-OPEN

9-7 Joystick

JL1
EMI_FILTER
JL2
EMI_FILTER
JL3
EMI_FILTER
JL4
EMI_FILTER
JL5
EMI_FILTER
JSJ1
1
2
3
4
4PIN PLUG
JSJ2
1
2
3
4
4PIN PLUG
JCNS1
CLK1 1
VCC 2
DTA1 3
DGND 4
CLK2 5
DATA2 6
DGND 7
TO/FROM
MPEG Decoder
CN9
JCNS2
DGND 1
LED 2
ANI2 3
TO/FROM
VIDEO
JCN1
GND
KD1
LED
KSW1
POWER
GND

9-8 Deck

DCN2
DVDPD 22
VOLDVD 21
DVDLD 20
GND 19
CDPD 18
VOLCD 17
CDLD 16
GND-BODY 15
F- 14
F+ 13
T+ 12
T- 11
GNDPD 10
VREF 9
VCC 8
F 7
B 6
C 5
RF 4
D 3
A 2
E 1
TO PICK-UP
DR1 220
DR2 220
DC1 104
DD1 1N4148
DC2 104
DD2 1N4148
DR4 120
DR3 120
DCN1
1 VCC
2 DVDPD
3 DVDLD
4 GND-DLD
5 CDPD
6 CDLD
7 GND-CLD
8 GND-BODY
9 GND-PD
10 VREF
11 VCC
12 F
13 B
14 C
15 RF
16 D
17 A
18 E
19 GND
20 T-
21 T+
22 F+
23 F-
24 PICK-SEL
25 SLED+
26 SLED-
27 W
28 V
29 U
30 H3+
31 H1-
32 H1+
33 H2-
34 H2+
35 H3-
TO SERVO DCN1
DCN3
SLED+ 1
SLED- 2
W 3
V 4
U 5
H3+ 6
H- 7
H+ 8
H1- 9
H1+ 10
H2- 11
H2+ 12
H3- 13
TO/FROM SPINDLE MOTOR
TO SLED MOTOR
SLED-
SLED+
HCN1
DGND
HSW1
1 DGND
2 OPSW
3 CLSW
4 TM+
5 TM-
TO/FROM SERVO DCN2
HOUSING PCB
TM-
TM+
TO TRAY MOTOR

MEMO