harman kardon Models DVD 25 DVD101

DVD/CD/CD-R/CD-RW/VCD MP3 Player

Service Manual



- Contents -

PRODUCT SAFETY SERVICE GUIDELINES2
SERVICE PRECAUTIONS
SPECIFICATIONS4
FEATURES5
FRONT PANEL CONTROLS6
INFORMATION DISPLAY7
REMOTE CONTROL8
REAR PANEL CONNECTIONS10
INSTALLATION/CONNECTIONS11
TEST SCREEN15
BASIC TROUBLESHOOTING GUIDE/RESET16

(DVD25) BULLETIN HK2003-06	17
(DVD25) TECH TIP HKTT2004-02	20
OVERALL EXPLODED VIEW	21
BLOCK DIAGRAM	22
(DVD25)MECHANICAL PARTS LIST	23
(DVD25) ELECTRICAL PARTS LIST	25
(DVD101) MECHANICAL PARTS LIST	31
(DVD101) ELECTRICAL PARTS LIST	33
PCB DRAWINGS	38
SCHEMATICS	43

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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

CAUTION : DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY, NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFAC-TURER'S APPROVAL. UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY, BUT MAY LEAD TO YOUR BEING LIABLE FOR ANY RESULTING PROPERTY DAMAGE OR USER INJURY.

SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE USFR

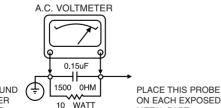
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTEC-TION FROM A.C. LINE SHOCK.

SAFETY CHECKS

AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRECTED. A CHECK SHOULD BE MADE OF THE FOLLOWING.

SUBJECT : FIRE & SHOCK HAZARD

- 1. BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
- NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFENTED DFFFATED
- SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD 3 SOLDER JOINTS, SOLDER SPLASHES OR SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES
- CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS, FOR FRAYED LEADS, DAMAGED INSULATION (INCLUDING A.C. CORD), AND REPLACE IF NECESSARY. FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
- 5. NO LEAD OR COMPONENT SHOULD TOUCH A RECIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUDING METAL SURFACES MUST BE AVOIDED.
- 6. ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTORS, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT FACTORY TYPES, DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIR-CUIT MODIFICATIONS.
- 7. AFTER RE-ASSEMBLY OF THE SET ALWAYS PERFORM AN A.C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABI-NET, (THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS. HAN-DLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST USE AN A.C. VOLT ISOLATION THANSFORMER DURING THIS TEST USE AN A.C. VOLT METER, HAVING 5000 OHMS PER VOLT OR MORE SENSITIVITY, IN THE FOLLOWING MANNER; CONNECT A 1500 OHM 10 WATT RESIS-TOR, PARALLELED BY A .15 MFD. 150.V A.C TYPE CAPACITOR BETWEEN A KNOWN GOOD EARTH GROUND (WATER PIPE, CON-DUIT, ETC.) AND THE EXPOSED METALLIC PARTS, ONE AT A TIME. MEASURE THE A.C. VOLTAGE ACROSS THE COMBINATION OF 1500 OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A.C. PLUG OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A.C. PLOG AND REPEAT A.C. VOLTAGE MEASUREMENTS FOR EACH EXPOSED METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED 75 VOLTS R.M.S. THIS CORRESPONDS TO 0.5 MILLIAMP A.C ANY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED IMMEDIATELY.



GOOD EARTH GROUND SUCH AS THE WATER PIPE, CONDUIT, ETC

ON EACH EXPOSED WATT METAL PART SUBJECT: GRAPHIC SYMBOLS



THE LIGHTNING FLASH WITH APROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAG-NITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIAN GLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SUBJECT : X-RADIATION

- 1. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PER-SONNEL COVER THE SUBJECT OF X-RADIATION. THE ONLY POTEN-TIAL SOURCE OF X-RAYS IN CURRENT T.V. RECEIVERS IS THE PIC-THE SOURCE OF X-RAYS IN CORRENT 1.V. RECEIVERS IS THE PIC-TURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEN THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LEVEL. THE PROPER VALUE IS GIVEN IN THE APPLICABLE SCHEMATIC. OPERA-TION AT HIGHER VOLTAGES MAY CAUSE A FAILURE OF THE PIC-TURE TUBE OR HIGH VOLTAGE SUPPLY AND, UNDER CERTAIN CIR-CUMSTANCES, MAY PRODUCE RADIATION IN EXCESS OF DESIR-ABLE LEVELS.
- 2 ONLY FACTORY SPECIFIED C B T ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS AN X-RAY SHIELD IN COLOR SETS, ALWAYS RE-INSTALL THEM.
- 3. IT IS ESSNTIAL THAT SERVICE PERSONNEL HAVE AVAILABLE AN ACCURATE AND RELIABLE HIGH VOLTAGE METER. THE CALIBRA-TION OF THE METER SHOULD BE CHECKED PERIODICALLY AGAINST A REFERENCE STANDARD, SUCH AS THE ONE AVAILABLE AT YOUR DISTRIBUTOR.
- 4. WHEN THE HIGH VOLTAGE CIRCUITRY IS OPERATING PROPERLY THERE IS NO POSSIBILITY OF AN X-RADIATION PROBLEM. EVERY TIME A COLOR CHASSIS IS SERVICED. THE BRIGHTNESS SHOULD BE RUN UP AND DOWN WHILE MONITORING THE HIGH VOLTAGE WITH A METER TO BE CERTAIN THAT THE HIGH VOLTAGE DOES NOT EXCEED THE SPECIFIED VALUE AND THAT IT IS REGULATING CORRECTLY. WE SUGGEST THAT YOU AND YOUR SERVICE ORGA-NIZATION REVIEW TEST PROCEDURES SO THAT VOLTAGE REGU-LATION IS ALWAYS CHECKED AS A STANDARD SERVICING PROCE-DURE AND THAT THE HIGH VOLTAGE READING BE RECORDED ON EACH CUSTOMER'S INVOICE.
- 5. WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A PRODUCT WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE, AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE SUPPLY. DO NOT OPERATE THE PRODUCT LONGER THAN IT IS NECESSARY TO LOCATE THE CAUSE OF EXCES-SIVE VOLTAGE.
- 6. REFER TO HV. B+ AND SHUTDOWN ADJUSTMENT PROCEDURES DESCRIBED IN THE APPROPRIATE SCHEMATIC AND DIAGRAMS (WHERE USED)

SUBJECT: IMPLOSION

- 1. ALL DIRECT VIEWED PICTURE TUBES ARE EQUIPPED WITH AN INTE-GRAL IMPLOSION PROTECTION SYSTEM, BUT CARE SHOULD BE TAKEN TO AVOID DAMAGE DURING INSTALLATION, AVOID SCRATCHING THE TUBE. IF SCRATCHED REPLACE IT.
- 2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

SUBJECT : TIPS ON PROPER INSTALLATION

- 1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBY-HOLE OR CLOSELY FITTING SHELF SPACE, OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
- 2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO TORS WHERE STEAM LEAKAGE IS A FACTOR, NEAR STEAM RADIA-TORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
- 3. AVOID PLACEMENT WHERE DRAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DEC-ORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
- 4. WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMER-CIAL MOUNTING KIT, MUST FOLLOW THE FACTORY APPROVED MOUNTING INSTRUCTIONS. A PRODUCT MOUNTED TO A SHELF OR PLATFORM MUST RETAIN ITS ORIGINAL FEET (OR THE EQUIVALENT THICKNESS IN SPACERS) TO PROVIDE ADEQUATE AIR FLOW ACROSS THE BOTTOM. BOLTS OR SCREWS USED FOR FASTENERS MUST NOT TOUCH ANY PARTS OR WIRING. PERFORM LEAKAGE TOTOM CHORMATCH INSTALLATIONS. TEST ON CUSTOMIZED INSTALLATIONS.
- 5. CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT IS PROPERLY SECURED
- 6. A PRODUCT ON A ROLL-ABOUT CART SHOULD BE STABLE ON ITS MOUNTING TO THE CART. CAUTION THE CUSTOMER ON THE HAZ-ARDS OF TRYING TO ROLL A CART WITH SMALL CASTERS ACROSS THRESHOLDS OR DEEP PILE CARPETS.
- 7. CAUTION CUSTOMERS AGAINST THE USE OF A CART OR STAND WHICH HAS NOT BEEN LISTED BY UNDERWRITERS LABORATORIES, INC. FOR USE WITH THEIR SPECIFIC MODEL OF TELEVISION RECEIVER OR GENERICALLY APPROVED FOR USE WITH T.V.'S OF THE SAME OR LARGER SCREEN SIZE.
- 8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS. EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SIN-GLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.

SERVICING PRECAUTIONS

CAUTION : Before servicing the DVD covered by this service data and its supplements and ADDENDUMS, read and follow the *SAFETY PRECAUTIONS*. *NOTE* : if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions. *Remember Safety First:*

General Servicing Precautions

- 1. Always unplug the DVD AC power cord from the AC power source before:
 - (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
 - (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
 - (3) Connecting a test substitute in parallel with an electrolytic capacitor.

Caution : A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

- 2. Do not spray chemicals on or near this DVD or any of its assemblies.
- 3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator. Unless specified otherwise in this service data, lubrication of contacts is not required.
- 4. Do not defeat any plug/socket B+ voltage interlocks with whitch instruments covered by this service manual might be equipped.
- 5. Do not apply AC power to this DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are cerrectly installed.
- 6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an 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 (Note 1) should be more than 1Mohm.

Note 1 : Accessible Conductive Parts including Metal panels, Input terminals, Earphone jacks, etc.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES 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 ES 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 ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified a "anti-static" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protec tive package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES 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 ES devices. (Normally 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 ES device.)

SHIPPING PRECAUTION:

If power is removed from the unit before the "NO DISC" message, then the carousel has not reached the home position, and movement of the laser assembly during shipping can cause the mechanism to jam.

Before the unit is shipped, the mechanism should be set to its home position performing following steps: Power on unit. Wait until unit displays "NO DISC". Power unit off.

Technical Specifications

Applicable Disc:	VCD, CD-i, CD, CD-R Regio code: DVD Mc DVD-Layers: Single S	(12 cm) or 3 inch (8 cm) DVD-Movie, Standard conforming DVD-R and DVD-RW, R, MP3 or CD-RW discs, ovie disc with Code 2 or 0 only. Side/Single Layer, Single Side/Dual Layer, Dual Side/Dual Layer, ar PCM, MPEG, Dolby Digital or DTS Audio Discs
Video Signal System:	PAL/NTSC	
Composite Video Output:	1 V p-p/75 Ohms, sy	nc negative polarity
S Video Output:	Y/Luminance: 1 V p- C/Chrominance: 0.2	p/75 Ohms, sync negative polarity 86 V p-p
Component Video Output:	Y: 1Vp-p/75 Ohms, s	sync negative polarity
	Cr: 0.7Vp-p/75 Ohm	S
	Cb: 0.7Vp-p/75 Ohn	ns
Analog Audio Output:	2 Vrms max	
Frequency Response:	DVD (Linear PCM):	2 Hz - 44 kHz +0/-0.5 dB (96 kHz sampling)
	CD:	2 Hz - 20 kHz +0/-0.5 dB
Signal/Noise Ratio (SNR):	113 dB (A-weighted)
Dynamic Range:	DVD: 100 dB (18 Bit CD/DVD: 96 dB (16	, , ,
THD/1kHz:	DVD/CD: 0.0025 %	
Wow & Flutter:	Below Measurable L	imits
AC Power:	110 - 240 V/ 50 - 60) Hz
Power Consumption:	12 Watts (On)/20 W	/atts (Max)
Dimensions (WxHxD):	440 x 87 x 305 mm	
Weight:	7 Kg	

Depth measurement includes knobs and connectors.

Height measurement includes feet and chassis.

All specifications subject to change without notice.

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DTS is a trade mark of Digital Theater Systems, Inc.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or diassembly is prohibited.

Features

High quality video

- Advanced sophisticated 10-bit MPEG-2 video decoding circuits.
- Direct RGB output via SCART (selectable) for optimum video performance. SCART connector also configurable for Composite Video output.
- Test screen videos available for testing video performance and setup.
- Pure PAL with NTSC disc due to true NTSC/PAL conversion.
- Dual-layer compatibility for extended play DVD
- Progressive Scan component video ouputs (NTSC only)

High quality digital audio

- By connecting a DTS (Digital Theater Systems) or a Dolby Digital decoder, you can enjoy high quality 5.1 digital surround sound from DTS or Dolby Digital discs.
- With linear PCM audio at 16-24 bits and 44-96 kHz (also on digital output, see table page 14), audio guality exceeding that of CD becomes possible.
- Optical and coaxial digital audio output.

Many convenient features

- On-Screen Menu lcons for disc information or player information and access to many major functions of this unit.
- Subtitles may be displayed in one of numerous languages*.
- The multi-angle function allows you to choose the viewing angle of scenes which were shot from a number of different angles (Limited to DVD's recorded with multiple camera angles.)
- Multiple options for dialog language and soundtrack selection (limited to DVD's recorded with multiple dialog languages or soundtracks).
- Programming of up to 9 scenes in memory (markers).
- Parental lock settings to prevent play of discs unsuitable for some audiences [DVD only].
- Intuitive menu operating system.
- 2x/4x Zoom during play and pause.

- Backlit, ergonomically designed remote control.
- Future software upgrades accessible via Internet.
- * The number of languages recorded depends on the software.

Compatible with CD as well as DVD

• The DVD 25/101 will play any conventional Audio Packing List CD or recordable (CD-R) or erasable CD (CD-RW), bearing the logos shown here, MP3 or any VCD or DVD with the region code 0 or 2.

Disc formats supported by this player

The unit can play discs bearing any of the following logos:





3"(8 cm) disc 5"(12 cm) disc

DVD

CD 3"(8 cm) disc 5"(12 cm) disc





R CD-R

CD-RW

VCD 5"(12 cm) disc 3"(8 cm) disc 5"(12 cm) disc 5"(12 cm) disc 5"(12 cm) disc

NOTE: Due to differences in the format of certain discs, it is possible that some discs may include a mix of features that are not compatible with the DVD 25/101. Similarly, although it's is capable of a wide range of features, not all discs include every capability of the DVD system. For example, although the DVD 25/101 is compatible with multi-angle discs, that feature is only possible when the disc is specially encoded for multiple-angle play. In addition, the DVD 25/101 is capable of playing back both Dolby Digital and DTS soundtracks, but the number and types of tracks available will vary from disc to disc. To make certain that a specific feature or soundtrack option is available, please check the options noted on the disc jacket.

Playback capability for CD-R and CD-RW discs may vary due to variations in the quality of the disc and the recorder used to create the disc.

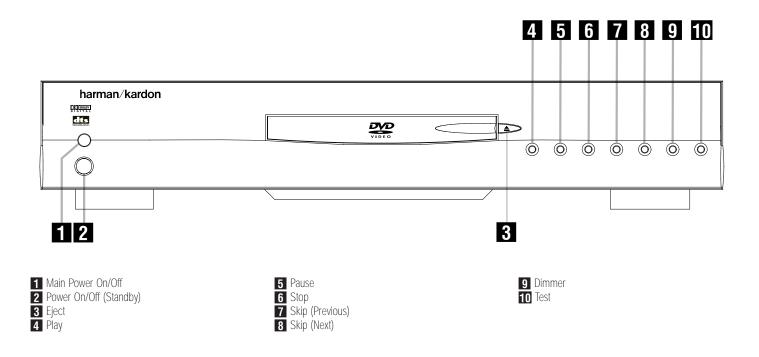
Upgradeability via Internet

The "firmware" controlling the functionality of the h/k DVD25/101 is fully upgradeable. In the event of future improvements to its operations and features, it will be possible to download firmware upgrades from www.harmankardon.com. All you have to do is create a CD-R with the data and insert it in the DVD for an automatic upgrade.

1 h/k DVD25 or DVD101 DVD Player

- 1 Remote control
- 2 AA batteries
- 1 A/V cable for stereo analog audio and composite video
- 1 S-Video cable
- 1 remote extension cable
- 1 owner's manual

FRONT-PANEL CONTROLS



Main Power On/Off: Press this switch to apply power to the DVD 25/101. Once the unit has been turned on with this switch, it may be operated from either the front panel or remote control. Press the switch again to turn the unit completely off.

Power On/Off (Standby): Press the Button once to turn on DVD 25/101. Press it again to put the unit in the Standby mode. Note that in order for this switch to operate, the Main Power Switch 1 must be pressed in so that it is in the ON position.

3 Eject: Press this Button to open or close the Disc Tray.

4 Play: Press to initiate playback or to resume playback after the Pause Button **5** (3) has been pressed.

5 Pause: Press this Button to momentarily pause playback. To resume playback, press the button again. If a DVD is playing, action will freeze and a still picture will be displayed when the button is pressed.

6 Stop: Press this button once to place the disc in the Resume mode, which means that playback will stop, but as long as the tray is not opened or the disc changed, DVD playback will continue from the same point on the disc when the Play Button **1 ()** is pressed again. Resume will also work if the unit was turned off. To stop a disc and have play start from the beginning, press the button twice.

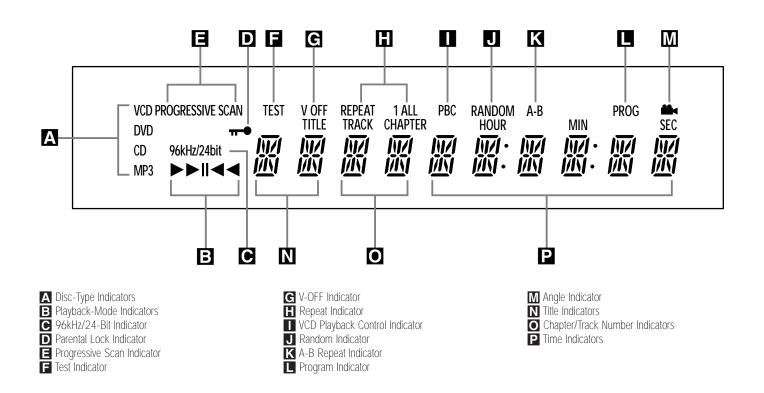
7 Skip (Previous): Press this button to move backward through the music tracks on a CD disc or the chapters on a DVD disc.

8 Skip (Next): Press to move forward through the music tracks on a CD or the chapters on a DVD disc.

9 Dimmer: Press this button to reduce the brightness of the Information Display by 50% or to turn the display off completely in the following order: FULL BRIGHTNESS → HALF BRIGHTNESS → OFF → FULL BRIGHTNESS.

To Test: Press this button to bring a test picture to the screen, which enables you to optimally adjust all important parameters of color videos, such as brightness, contrast, color intensity and tint.

FRONT-PANEL INFORMATION DISPLAY



A Disc-Type Indicators: The DVD, VCD, CD or MP3 indicator will light to show the type of disc currently being played.

B Playback-Mode Indicators: These indicators light to show the current playback mode:

Lights when a disc is playing in the normal mode.

► Lights when the disc is in the Fast Search Forward mode. The on-screen banner display indicates the selected speed, which may be selected by pressing the Search Forward or Reverse Buttons (1) (20).

Lights when the disc is paused.

✓ Lights when the disc is in the Fast Search Reverse mode. The on-screen banner display indicates the selected speed, which may be selected by pressing the Search Forward or Reverse Buttons (3) (20).

○ 96kHz/24-Bit Indicator: The 96kHz indicator will light when a disc recorded with 96kHz content is playing; the 24-Bit indicator will light when a disc recorded with 24-bit content is playing.

D Parental Lock Indicator: This indicator lights when the parental lock system is engaged in order to prevent anyone from changing the rating level without a code.

Progressive Scan Indicator: Lights when Progressive Scan component video output is selected in the setup menu.

Test Indicator: This indicator lights when the TV test screen is activated.

€ V-OFF Indicator: This indicator lights when the unit's video output has been turned off by pressing the Video Off Button *€* on the remote control.

Repeat Indicators: These indicators light when any of the Repeat functions are in use.

VCD Playback Control Indicator: This indicator lights when the playback control function is turned on with VCDs.

J Random Indicator: This indicator lights when the unit is in the Random Play mode.

A-B Repeat Indicator: This indicator lights when a specific passage for repeat playback has been selected.

Program Indicator: This indicator lights when the programming functions are in use.

Mangle Indicator: This indicator blinks when alternative viewing angles are available on the DVD currently playing. **Title Indicators:** These two positions in the display will show the current title number when a DVD disc is playing.

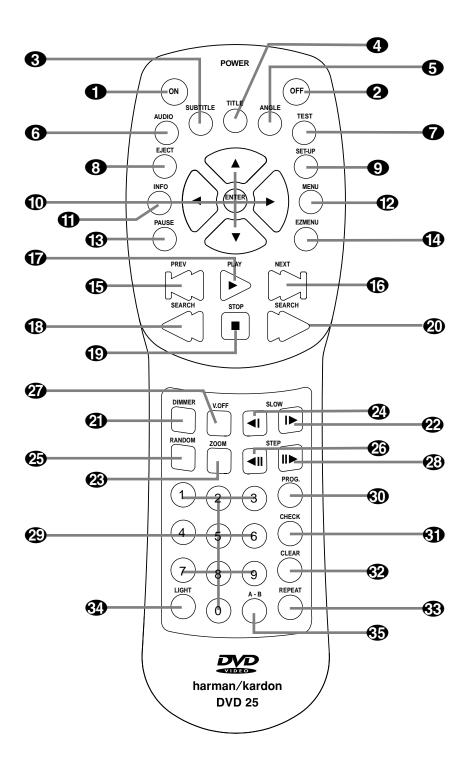
• Chapter/Track Number Indicators: When a DVD disc is playing, these two positions in the display will show the current chapter. When a CD disc is playing they will show the current track number.

P Time Indicators: These positions in the indicator will show the running time of a DVD in play. When a CD is playing, these indicators will show the current track time, time remaining in the current track or the total remaining time on the disc.

NOTE: The indicators **NOP** will also display text messages about the DVD 25/101's status, including **Reading** when a disc is loading, and **Disc Error** when a disc not compatible with the DVD 25/101 is put into the Play position. Power On

REMOTE CONTROL FUNCTIONS

Power Off 3 Subtitle **4** Title **5** Angle 6 Audio 7 Test 8 Eject 9 Setup Navigation Buttons Info Menu Pause 1 EzMenu B Skip (Previous) B Skip (Next) Play B Search Reverse Stop 20 Search Forward 2 Dimmer 22 Slow Forward Zoom 24 Slow Reverse **25** Random **25** Step Forward 27 Video Off 23 Step Reverse Numeric Keys 3 Program 3 Check 32 Clear 3 Repeat 34 Light GD A-B Repeat



REMOTE CONTROL FUNCTIONS

1 Power On: Turns on the player when it is in Standby mode (the Harman Kardon logo appears on-screen).

2 Power Off: Turns off the player to Standby mode.

3 Subtitle: When a DVD is playing, press to select a subtitle language or to turn subtitles off.

4 Title: When a disc is playing, press to jump to the subsequent title (with the next title number) on the disc.

5 Angle: Press to access various camera angles on a DVD (if the DVD contains multiple camera angles).

6 Audio: Press to access various audio languages on a DVD (if the DVD contains multiple audio streams).

Test: Press for the on-screen test pattern which enables you to optimally adjust brightness, contrast, color intensity, etc., of your display device.

8 Eject: Press to open or close the disc tray.

9 Setup: Press to access player setup menu.

(1) Info: Press once for detailed information on the disc playing (Video/Audio bit rate, Movie aspect ratio and others). Press again for current player settings. Note that the unit will not react to any transport button as long as the info menu is displayed. Press again to remove information from screen.

Menu: Displays the DVD disc menu on the TV screen in Play mode.

Pause: Freezes a picture (with DVD/VCD) and pauses the playback signal (CD) when a disc is playing. Press again for normal playback.

(2) EzMenu: Press while a disc is playing to view the on-screen status banner display. Use the *◄/▶* **Navigation Buttons (1)** to move through the different features in the Banner Display. When a symbol is highlighted, press the Enter Button (1) on the remote to select it.

Skip (Previous): Press to go to beginning of current track. Press again quickly to go to beginning of previous track.

(Skip (Next): Press to go to beginning of next track.

Play: Begins to play disc (closes disc tray first, if it is open).

Search (Rev): Allows you to search in reverse through a disc while it is in Play mode. Each time you press this button while a DVD is playing, the search speed changes as below:

R. SEARCH $2x \rightarrow R$. SEARCH $4x \rightarrow R$. SEARCH $8x \rightarrow R$. SEARCH $16x \rightarrow R$. SEARCH 2x

When a CD is playing, there are two fast-play speeds:

R. SEARCH 5x → R. SEARCH 15x

(9) Stop: Stops playing a disc. When a disc is playing, if you press the Stop Button 6 (9) and the Play Button 4 (7), the disc will resume play; i.e., it will start from the same point on the disc where the unit was stopped. If you press the Stop Button 6 (9) twice and the Play Button 4 (7), the disc will start play from the beginning.

2 Search (Fwd): Allows you to search forward through a disc while it is in Play mode. Each time you press this button while a DVD is playing, the search speed changes as below:

F. SEARCH $2x \rightarrow$ F. SEARCH $4x \rightarrow$ F. SEARCH $8x \rightarrow$ F. SEARCH $16x \rightarrow$ F. SEARCH 2x

When a CD is playing, there are two fast-play speeds:

F. SEARCH 5x → F. SEARCH 15x

2 Dimmer: Press to change the brightness of the front-panel display or to turn the display off completely in the following order: FULL BRIGHTNESS \rightarrow HALF BRIGHTNESS \rightarrow OFF \rightarrow FULL BRIGHTNESS

2 2 Slow: Allows you to play movies in Slow mode. Each time you press this button while a DVD is playing, the slow speed will be changed as below:

F. SLOW $1/2x \rightarrow$ F. SLOW $1/4x \rightarrow$ F. SLOW $1/8x \rightarrow$ F. SLOW $1/16x \rightarrow$ F. SLOW 1/2x

R. SLOW 1/2x → R. SLOW 1/4x → R. SLOW 1/8x → R. SLOW 1/16x → R. SLOW 1/2x

Slow-speed playback is not available for CDs.

23 Zoom: When a DVD or VCD is playing, press this button to zoom the picture so that it is enlarged. There are four steps to the zoom function, each progressively larger. Press through each of the zoom stages to return to a normal picture.

25 Random: Press for Random playback in random order.

(26) (Rev/Fwd): Freeze a picture when a disc is playing. Also, the picture advances frame by frame each time this button is pressed.

Wideo Off: Press to turn off video output for improved audio performance from CDs. Press again to restore video output (see page 29).

29 Numeric Keys: Select numbers by pressing these buttons.

3D Prog: When programming playlists and the unit is in the Stop mode, press this button to view the Program Edit display.

3 Check: Press during program play (in Resume mode) to check the program status on the front-panel display. Escape from this display by pressing the Play Button 4 17.

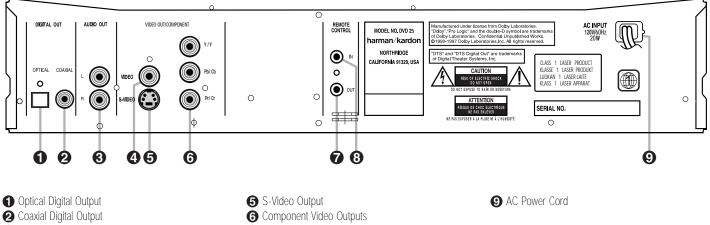
3 Clear: Press to remove the On-Screen Banner Display from the screen.

33 Repeat: Press to go to the Repeat menu. You can repeat a chapter, track or the entire disc.

34 Light: Press to illuminate the remote controller.

3 A-B: Press to select section A-B and to play repeatedly.

REAR-PANEL CONNECTIONS



3 Analog Audio Outputs

4 Composite Video Output

1 Optical Digital Output: Connect this jack to the optical digital input of an A/V receiver or surround processor for Dolby Digital, DTS or PCM audio playback.

2 Coaxial Digital Output: Connect this jack to the coaxial digital input of an A/V receiver or surround processor for Dolby Digital, DTS or PCM audio playback.

NOTE: The coaxial digital output should only be connected to a digital input. Even though it is the same RCA-type connector as standard analog audio connections, DO NOT connect it to a conventional analog input jack.

3 Analog Audio Outputs: Connect these jacks to an audio input on an A/V receiver or surround processor for analog audio playback.

4 Composite Video Output: Connect this jack to the video input on a television or video projector, or to a video input on an A/V receiver or processor if you are using that type of device for video input switching.

5 S-Video Output: Connect this jack to the S-Video input on a television or video projector, or to an S-Video input on an A/V receiver or processor if you are using that type of device for S-Video input switching.

Remote Control Output

8 Remote Control Input

6 Component Video Outputs: These outputs carry the component video signals for connection to display monitors with component video inputs. For standard analog TVs or projectors with inputs marked Y/Pr/Pb or Y/Cr/Cb, connect these outputs to the corresponding inputs. If you have a high-definition television or projector that is compatible with high-scan-rate progressive video, connect these jacks to the HD component inputs. If you are using a progressive scan display device, PROGRESSIVE must be selected in the Video menu in order to take advantage of the progressive scan circuitry. See "Scan Type" section on page 17 for more information on progressive scan video.

IMPORTANT: These jacks should NOT be connected to standard composite video inputs.

Remote Control Output: Connect this jack to the infrared (IR) input jack of another compatible Harman Kardon remote controlled product to have the built-in Remote Sensor on the DVD 25/101 provide IR signals to other compatible products.

8 Remote Control Input: Connect the output of a remote infrared sensor, or the remote control output of another compatible Harman Kardon product, to this jack. This will enable the remote control to operate even when the front-panel Remote Sensor on the DVD 25/101 is blocked. This jack may also be used with compatible IR remote control-based automation systems.

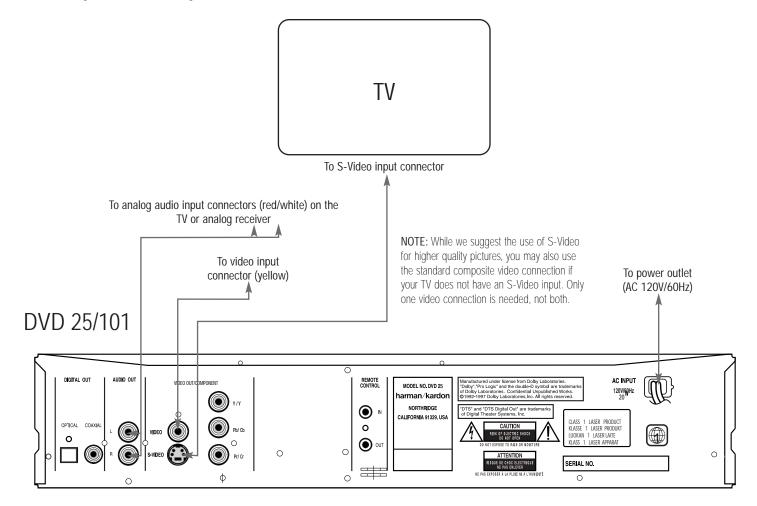
9 AC Power Cord: Connect this plug to an AC outlet. If the outlet is controlled by a switch, make certain that it is in the ON position.

NOTE: You'll find more details about all audio/video connections under Setup and Connections on the following pages.

SETUP AND CONNECTIONS

- Ensure that the power switch of this unit (and of other equipment to be connected) is set to "Off" before commencing connection.
- Do not block the ventilation holes of any of the equipment and arrange them so that air can circulate freely.
- Read through the instructions before connecting other equipment.
- Ensure that you observe the color-coding when connecting audio and video cables.

Connecting to a TV and Analog Receiver



NOTES:

- The video output (yellow) combines the complete video signal (composite) and sends it to the TV (or to the A/V receiver) by one cable only. Use the video output when your TV set is equipped with a video input jack only.
- The S (separate) video output connector separates the color (C) and luminance (Y) signals before transmitting them to the TV set in order to achieve a

sharper picture. Use the S-Video cable when connecting the player to a TV equipped with an S-Video input for improved picture clarity. Never connect both outputs, video and S-Video, to your TV or A/V receiver; use only one of them.

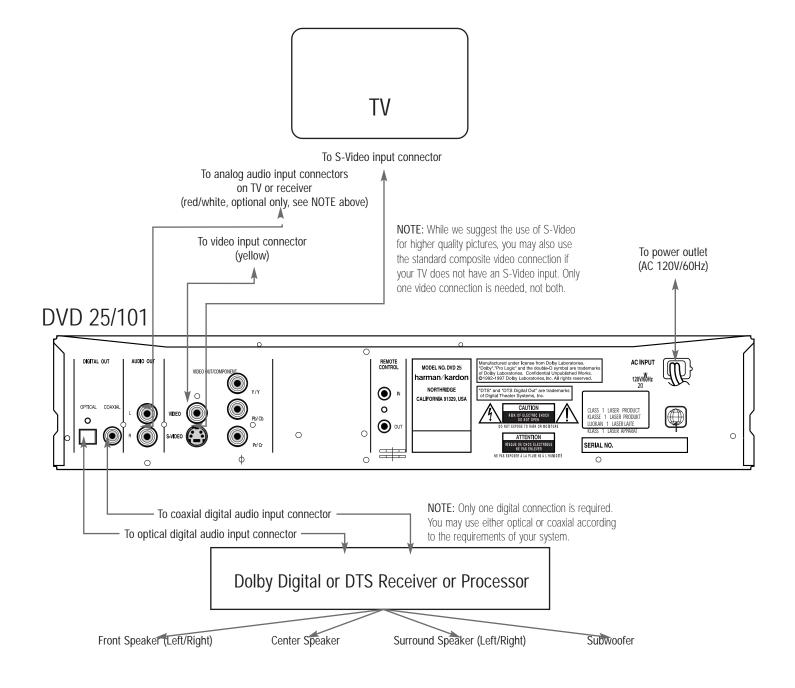
 When the audio signal is to be fed to an analog receiver rather than to the TV, connect the audio out jacks to any normal audio input on your amplifier/ decoder/receiver. The DVD 25/101 will "downmix" Dolby Digital recordings to Pro Logic^{®*}, available on these connectors; all analog surround or stereo signals will be fed to them directly. You can also select the audio and video signals of all your video devices with your A/V receiver/amplifier. For more information see the "NOTE" on next page.

SETUP AND CONNECTIONS

Connecting to a Receiver/Amplifier With Dolby Digital or DTS Decoder

When DVDs encoded in Dolby Digital or DTS are played, the Dolby Digital or DTS bitstream is outputted from the player's optical or coaxial digital audio output. When the player is connected to a Dolby Digital or DTS decoder, you can enjoy theater-quality audio in your home. An optical digital audio cable or coaxial audio cable (both optional) is required for these connections, as shown below. Only one connection is needed, not both at the same time. NOTE: With multiple video sources, your audio/video device can be used for selecting the video signal and routing it to the TV. Connect the video or S-Video output of the DVD 25/101 (whatever is provided with your device) to the video or S-Video input on your device, and the video/S-Video output of this device to your TV. For more details, see the manual of your audio/ video amplifier/receiver.

 NOTE FOR ANALOG AUDIO: The connection from Audio Out to the TV is optional. If you plan on using your DVD 25/101 alone, without turning on your complete system, this connection must be made; then you can turn up the TV's volume as needed. The analog audio jacks may also be connected to the standard analog left/right DVD or CD inputs on your receiver to processor if you wish to use the DVD 25/101 as the input for a multiroom system.

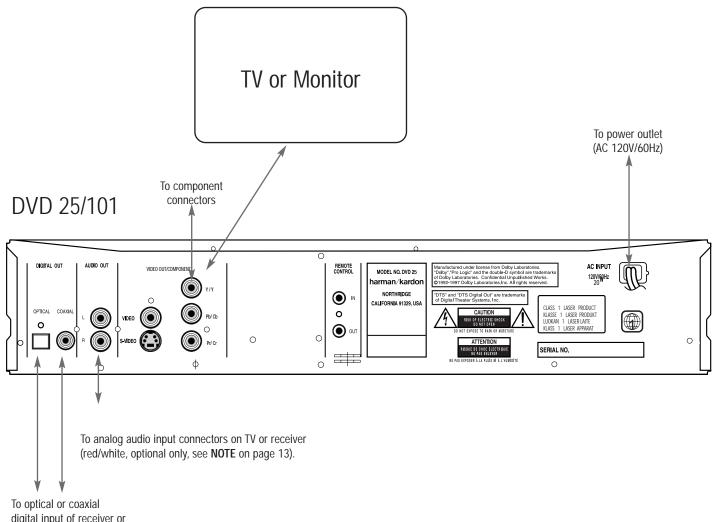


SETUP AND CONNECTIONS

Connecting to a TV or Monitor With Component Connectors - Component Video Connection

If the video display has component video inputs, connect the component video outputs on the DVD 25/101 to the corresponding input jacks on your television. If you are using a Progressive Scan television or projector,

you must also change the scan type in the DVD player's Video Setup menu from "Interlaced" to "Progressive." See page 17.



digital input of receiver or processor. Only one digital connection is required, and either may be used.

Digital Audio Connections

Notes when connecting the optical digital audio cable (optional)

- Remove the dust protection cap from the optical digital audio output and connect the cable firmly so that the configurations of both the cable and the connector match.
- Keep the dust protection cap and always reattach the cap when not using the connector.

Audio output from the unit's optical/coaxial digital audio output connector

Disc:	Sound recording format:	Optical/Coaxial digital audio output
DVD	Dolby Digital (AC-3)	Dolby Digital bitstream (2-5.1 ch) or PCM (2 ch, 48 KHz/16bit)*
	Linear PCM (48/96 kHz 16/20/24bit)	Linear PCM (2 ch) (48/96 kHz 16/20/24bit)
	DTS	Bitstream or no output *
CD	Linear PCM	Linear PCM (44.1 kHz sampling)
0	al Format must be	selected as "ORIGI-

NAL" or "PCM" in Audio Set-Up Menu (see page 18).

For your reference:

- Dolby Digital (AC-3) is a digital sound compression technique developed by the Dolby Laboratories Licensing Corporation, supporting 5.1-channel surround sound, as well as stereo (2-channel) sound, this technique enables a large quantity of sound data to be efficiently recorded on a disc.
- Linear PCM is a signal recording format used in CDs. While CDs are recorded in 44.1 kHz/16 bit, DVDs are recorded in 48 kHz/16 bit up to 96 kHz /24 bit.
- If you have a Dolby Pro Logic Surround decoder connected to the DVD's analog AUDIO OUT connectors, thanks to the "Downmix" function of the DVD you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles encoded with Dolby Surround.
- The DVD 25/101 is designed to digitally output 96kHz-PCM audio with a 96 kHz sampling rate. The 96 kHz indicator will light in the display. However, some 96 kHz DVD's may include copy protection codes that do not permit digital output. For full 96 kHz fidelity from these discs, use the analog outputs of the DVD 25/101.

IMPORTANT: If your surround processor/D/A converter does not support 96 kHz PCM audio, you must use the DVD analog outputs for full 96 kHz fidelity with these discs.

Caution for the optical/coaxial digital audio outputs:

- When connecting an amplifier (with an optical/coaxial digital input) which does not contain a Dolby Digital (AC-3) or DTS decoder, be sure to select "PCM" as initial setting in the "Digital Format" menu (see also page 18). Otherwise, any attempt to play DVD may cause such a high level of noise that it may be harmful to your ears and damage your speakers.
- CD's can be played as they would normally be played.

Note:

Some first generation DTS decoders which do not support DVD-DTS interface may not work properly with the DVD/CD player.

Dolby Digital and DTS

Both Dolby Digital and DTS are audio formats used to record 5.1-channel audio signals onto the digital track of film. Both of these formats provide six separate channels: left, right, center, left rear, right rear, and common subwoofer.

Remember, that Dolby Digital or DTS will only play 5.1-channel sound if you've connected the optical or coaxial output of the DVD 25/101 to a DTS or Dolby Digital receiver or decoder (see page 11) and if the disc was recorded in the Dolby Digital or DTS format.

Dolby Digital is a trademark of Dolby Laboratories Licensing Corporation.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works.1992-1997 Dolby Laboratories, Inc. All rights reserved. DTS is a registered trademark of Digital Theater Systems.

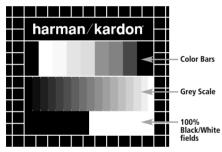
Test Screen

Test Screen

When you press the TEST button on the front panel or on the remote you can activate a still image to test all settings and the video performance of your TV. With the vertical color bars you can test the following:

- proper color intensity setting on your TV,
- the proper color of each bar, showing if the proper video standard is turned on: the colors should be (left to right): black, white, yellow, cyan (turquoise), green, magenta (purple), red, blue, black.
- proper color transition, seen as sharp separation of the bars, S-Video will be better than Video, RGB best of all.
- the performance of the color filter in your TV (with "Video" signals), bar edges should show no vertical crawling dots. Here S-Video and RGB formats usually give no problems.

With the grey scale and the black/white fields below the color bars the brightness and contrast of your screen can be adjusted optimally, see chapter "TV Picture Adjustment" below.



TV Picture Adjustment with Test Screen

These adjustments may be done now, but you can also make them after setup has been finalized. They can also be made at any time when the player is in Stop or Resume mode, simply by pressing TEST on the remote control or on the front panel.

Brightness adjustment:

- 1. Turn down the color control on your TV until the color bars are visible in black and white.
- 2. Adjust the contrast to the lowest level where you still can see all bars within the grey scale in the test picture separately and clearly.
- 3. Adjust the Brightness so that the bars in the grey scale are all visible. The bar furtherst to the left has to be as black as possible rather than grey but the next aside must clearly be differable. All the bars in the grey scale have to be gradually and evenly changing from black to whiter, going from left to right.

Contrast adjustment:

- Adjust the contrast on your TV until you see a bright white bar in the right low corner of the screen and a deep dark black bar at the left. The optimal contrast setting will depend from your preference and the surrounding light in the TV room.
- 2. If the brightness of the white bar will no more increase while turning up the contrast or when the borders of the white "harman/kardon" text letters on top will bloom (overlight) into the black areas, what drasticly will decrease the sharpness of the script, then the Contrast has been turned up too much. Reduce the contrast until these effects will disappear and the video still looks realistic.
- 3. If you are watching TV with a usual surrounding daylight, adjust the Contrast so that a normal video picture has about the same looking as the surroundings in your room. By that way the eye is relazed when watching the TV picture. This contrast setting may be reduced when the surrounding light is dimmed, usually improving the sharpness of a video a lot thereby.
- 4. The grey scale in the middle line needs to have the same clear difference between each bar as before the contrast adjustment. If not, go back to the brightness adjustment and repeat step 3 and then the contrast adjustments, making only minor adjustments each time for optimisation.

Color adjustment.

- 1. When the Brightness and the Contrast are set optimally, turn up the color control to the level of your perference. Adjust to the level where the colors look strong but still natural, not overdone. If the color level is too high, depending from the TV used some of the bars will seem wider or the color intensity will not increase while the control is turned up. Then the color control must be reduced again. At the end you should test the color intensity also with a video, e.g. pictures of natural faces, flowers, fruit and vegetables and other well known natural articles of our life most usefull for an optimal setting of the color intensity.
- 2. If your TV has a Tint option (with most European TVs this is available or effective only with NTSC signals, not with PAL), use the large white bar below the Greyscale to tweak the warmth of the picture. Every viewer has a difference in preference as how the glow of the picture should be. Some prefer a little colder picture, some a warmer glow. The Tint function on your TV and the white bar can be used to control this. Adjust the Tint to the level where you feel the white color has the tone you prefer.

TROUBLESHOOTING GUIDE

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Unit does not turn on	Main Power Switch 1 turned off No AC power	 Press in Main Power Switch 1. Check AC power plug and make certain any switched outlet is turned on.
Disc does not play	 Disc loaded improperly Incorrect disc type Invalid Region Code Rating is above parental preset 	 Load disc label-side up; align the disc with the guides and place it in its proper position. Check to see that disc is CD, CD-R, CD-RW, VCD, MP3-CD, DVD-R and DVD-RW (standard conforming) or DVD-Movie; other types will not play. Use Region 1 disc only. Enter password to override or change rating settings (see page 19).
No picture	 Intermittent connections Wrong input Progressive Scan output selected Video Off feature active 	 Check all video connections. Check input selection of TV or receiver. Use Progressive Scan mode only with compatible TV. Press Video Off Button (27) to reactivate video circuitry (see page 29).
No sound	 Intermittent connections Incorrect digital audio selection DVD disc is in fast or slow mode Surround receiver not compatible with 96kHz PCM audio 	 Check all audio connections. Check digital audio settings. There is no audio playback on DVD discs during fast or slow modes. Use analog audio outputs.
Picture is distorted or jumps during fast forward or reverse play	MPEG-2 decoding	 It is a normal artifact of DVD playback for pictures to jump or show some distortion during rapid play.
Some remote buttons do not operate during DVD play; prohibited symbol 🛇 appears (see below)	• Function not permitted at this time	• With most DVDs, some functions are not permitted at certain times (e.g., Track Skip) or at all (e.g., direct audio track selection).
The OSD menu is in a foreign language	Incorrect OSD language	• Change OSD language selection (see pages 19).
The 🛇 symbol appears	Requested function not available at this time	Certain functions may be disabled by the DVD itself during passages of a disc.
Picture is displayed in the wrong aspect ratio	 Incorrect match of aspect ratio settings to disc 	Change aspect ratio settings (see page 17).
Remote control inoperative	Weak batteriesSensor is blocked	Change both batteries.Clear path to sensor or use optional outboard remote sensor.
Disc will not copy to VCR	Macrovision protection	 Many DVDs are encoded with Macrovision to prevent copying to VCR.

If you forget your password, you can reset DVD 25/DVD101 to the factory default password (8888) when the player is in Standby by pressing and holding the Clear Button for six seconds. NOTE: This will restore all menu settings to the factory default settings. Any changes you have made will be lost.

harman/kardon

Service Bulletin

Service bulletin # H/K2003-06 Sept. 2003

To: All harman/kardon Service Centers

Model: DVD25

Subject: Replacement Of Laser Pick-Up Assembly

In the event you receive a DVD25 where a Laser Pick-up Assembly replacement is warranted: The original DVD25 mechanism (KIT500) used in earlier units is no longer available. Follow the instructions below to add a new replacement mechanism (KIT710). For later units already containing KIT710, ordering h/k part# WLD5.018.011XX is all that's needed.

For serial numbers WA-0002-10677 and below: Instructions for replacing mechanism KIT500 with KIT710

Synopsis:

The new KIT710 mechanism will need to be mechanically and electrically modified. All cables to the mechanism will be changed.

It will need to be elevated, and a new PC board will need to be added to adapt a new 29 pin flat cable. The 5 volt line on the power cable will need to be re-routed for a change to 3.3 volts.

I) Order the following parts:

h/k part# WLD5.018.011XX (KIT710 Assembly) h/k part# WLD6.672.710R500 ("kit" of ribbon cables, wires, screws, washers, cushions) h/k part# WLD6.672.853C-6 (new connector PCB)

Contents of WLD6.672.710R500 "Kit"

WLD6.672.853C-6 (new connector PCB)





II) Open DVD25 and remove the original KIT500 Mechanism

Remove the top cover (9 Phillips screws).

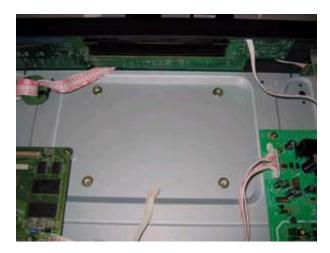
Remove the original KIT500 Mechanism (4 Phillips screws holding the mechanism to the chassis, and unplug the two flat cables and power supply cable from the Main PCB.)

Remove the colored front faceplate from the mechanism by lifting it up and off front of the tray; save the faceplate and discard the mechanism and cables.

III) Attach single 29 pin flat cable and Power Supply cable to new Mechanism KIT 710.

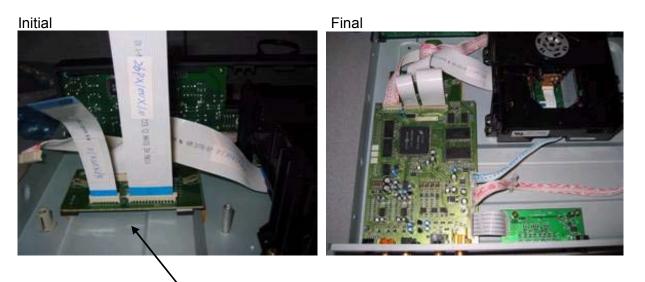
(Caution – assure the conector-side of the flat cable matches the connector-side of the female receptacle) Re-attach the front faceplate to the new mechanism.

IV) Elevate and mount the new KIT 710 mechanism by using 3 new washers under each foot; then fasten the mechanism with 4 new m3x12 screws. Align KIT710 with the opening in the front panel before tightening screws completely.



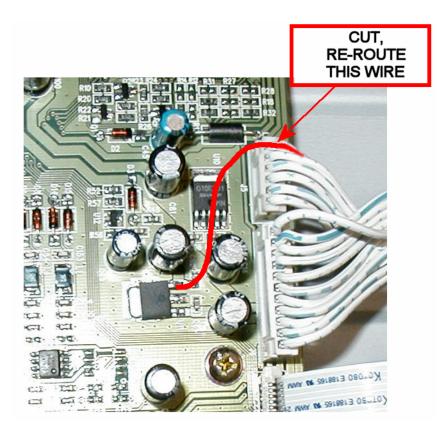
V) Place (4) cushions adhesive-side on the bottom corners of the new PC board, and place it in the recommended position in the chassis. Its position should match the illustration(s).

Plug all three new flat cables into the new PC board (including 29 pin cable from the mechanism). (Caution – assure the conector-side of the flat cables match the connector-side of the female receptacles) Plug the Power Supply cable into connector J5 on Main PCB.



(Note: Main PCB normally present has been removed for clarity)

VI) On the Power Supply cable, cut the pin 1 harness wire close to the connector on J5. Solder a new jumper wire to extend the connection from harness wire 1 to U11 pin 3 of the 3.3 volt regulator (BA033T). See illustration.



VII) Re-check the mechanism alignment with the front panel by plugging the unit in, turning ON, and opening and closing the tray with the eject button.

Replace top cover. Test unit for DVD/CD function.

Model	Serial Nur	nber (120v)	Status	Action
DVD25	WA-0002-01000 To WA-0002-10677	Label on ass'y reads: DVD-KIT500SE	If Replacement Of Laser Pick-Up Assembly is Needed, Original KIT500 is no longer stocked	Follow full instructions above for replacement
DVD25	WA-0002-10678 And above	Label on ass'y reads: DVD-KIT710SE		

harman/kardon

TECH TIPS

Troubleshooting tips and solutions to common service problems

For models: DVD25

TIP# HKTT2004-02

In these two unusual circumstances:

1) JBL SDP-3 or Lexicon MC-1 remote control affects the DVD25

The remote control for product JBL Synthesis SDP-3 (a processor) and the Lexicon MC-1 may unexpectedly control some of the functions on early DVD25 units when the products are both side-by-side in the same equipment rack. There was a software revision in the DVD25, and this was addressed and corrected.

In the event of this rare occurrence, please arrange to exchange your DVD25 with harman/kardon for a later unit that has the modern softrware. Procedure:

Call harman/kardon @ (516) 255-4545

Press 1 for h/k home

Press 3 for parts/tech support

Press 4 for tech support

When you reach a technician tell them of your problem and the exchange program, and remind them to

"Please pick a unit with a serial # of WA0002-05001 or higher"

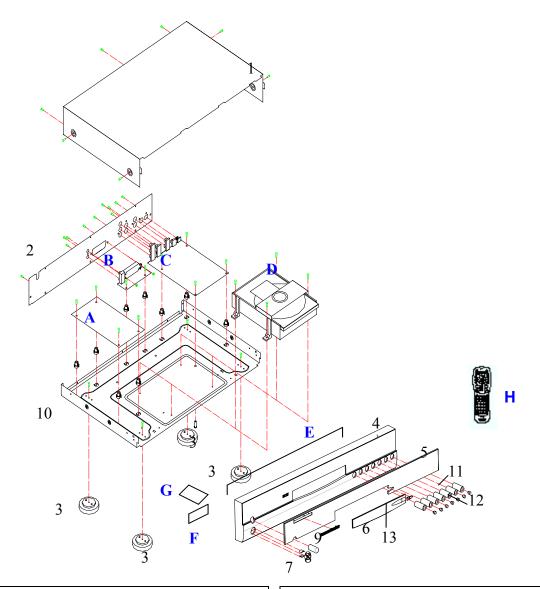
2) Certain VCD discs play Black & White only

In the event of a customer complaint of certain VCD titles that play normal color programs in Black & White only, there is a software upgrade to correct this issue. The procedure is to send the unit, with a short note of explanation, to:

HARMAN CONSUMER GROUP 250 CROSSWAYS PARK DRIVE WOODBURY, NEW YORK 11797 Attention: Andy Andersen

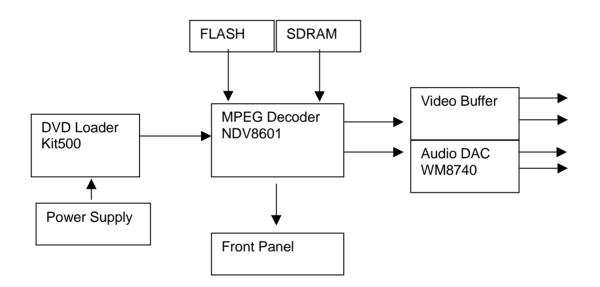
Mr. Andersen will perform the upgrade and send the unit back to the customer.

DVD25/101 Exploded view



1. DVD25 Top cover SG012	WLD8.404.014	
2. DVD25 Rear Panel HB028-1	WLD8.610.030-1	A. DVD25/101 Power supply PCB 714C WLD6.672.223
DVD101 Rear Panel HB028-2	WLD8.610.030-2	B. DVD25/101 Output board 736C scart WLD6.672.228
3. DVD25 Foot SD005-1	WLD8.085.005-1	C. DVD25/101 Main board 737C WLD6.672.227
DVD101Foot SD005-1	WLD8.085.005-2	D. DVD25 Mechanism DVD25-kit500 WLD5.018.011XX
4. DVD25 Front Panel MB028-1	WLD6.116.033-1	DVD101 Mechanism WLD5.018.024
DVD101 Front Panel MB028-2	WLD6.116.033-2	E. DVD25/101 Front board 787C WLD6.672.229
DVD25 Filter for VDF	WLD7.370.001	F. DVD25/101 Front St-by board 787C-1 WLD6.672.229-1
6. DVD25 Door SC010	WLD8.082.021	G. DVD25/101 Front SW board 787C-2 WLD6.672.229-2
7. DVD25 St-by button		H. DVD25 Remote control WLD2.018.009
DVD25 Power button SA009	WLD8.337.024	DVD101 Remote control WLD2.018.019
9. DVD25 Harman/kardon badge	WLD8.809.002	
10. DVD25 Chassis DZ025-1	WLD8.031.027-1	For DVD25 Mechanism replacement:
DVD101 Chassis DZ025-2	WLD8.031.027-2	SEE BULLETIN H/K2003-06 ON PAGE 17
11. DVD25/101 Functions button		
12.		
13. DVD25/101 open/close button		

DVD 25/101 Block Diagram



Harman/Kardon DVD25 Component List

		Description & Model	
Position No.	Ref. No.	and Basic Data	QTY
Metal Parts			
	WLD8.031.027-1	Chassis DZ025-1	1
	WLD8.404.014	Top Cover SG012	1
	WLD8.610.030-1	Rear Panel HB028-1	1
	WLD8.809.002	"harman/kardon" badge	1
Plastic Parts		U	
	WLD6.116.033-1	Front Panel MB028-1	1
	WLD8.085.005-1	Foot SD005-1	4
	WLD8.337.024	Power Button SA009	1
	WLD8.082.021	Door SC010	1
	WLD7.370.001	Filter for VFD	1
	WLD8.085.007	Foot Pad SD003	4
	WLD8.634.001	Screw Jacket	4
	WLD7.085.007	Power Button Insulation Strip SJ001	1
	WLD8.088.007	VFD Cushion SD001	1
	WLD8.070.008	Remote Control Sensor Support SZ005	1
	WLD8.661.001	Plastic Clip	2
	WLD8.661.002		1
	WLD8.661.003	Nylon Tie	2
	WLD8.605.013~014	Remote Control Case	1
	WLD8.605.015	Cover for battery case	1
	WLD7.683.009	Conductive Rubber on Remote Control	1
	WLD8.804.009	Indication Plate on Remote Control	2
	WLD7.370.002.DVD25	Lens	
	WLD8.849.001	Glue for Lens	1
	WLD8.849.002	Diffusion Sheet	1
	WLD8.849.003	Insulation Paper Thickness 0.2~0.25	1
	WLD8.079.008-1	Plastic Support for PCB	ç
Complete Part, Mechanism			
	WLD5.018.011XX	DVD25 Single Disc Mechanism DVD-KIT710	1
Toroidal magnetic core			
		□31x19x16	1
Packing			
	WLD8.865.066-1	Carton box NB034-1	1
	WLD8.870.029	Polyfoam Pad PM027	2
	WLD8.840.043	Plastic bag for AV cords	1
	WLD8.840.044	Plastic bag for OM	2
	WLD8.840.045	Packing bag for player	
	WLD8.870.029-1	Poly foam pad PM011003	1

Accessories			
	WLD2.018.009	Remote control dvd25	
	WLD8.810.084	OM SM081	1
		Product Warranty card	1
		Quality Assurance Card	1
		AV cords	3
		S-Video Cord	1
		Batteries 5#	2
		Packing list	1
		RC connection line	1
		Pyrocondensation Tube 6	3
Cable			
Connect between Power PCB and front panel PCB		4 Lines 170 Length Single 2.54 Spacing	1
		10 Lines 320 Length Double,	
Connect between Power PCB and Main Board		One side Spacing 2.0 and the other 2.54	1
Connect between Main Board and mechanism		6 Lines 160 Length Double 2.0 with plug	1
Connect between Main board and Front panel		10 Lines 380 Length Single 2.0 spacing	1
Connect between Main board and			
output board		22 Lines 60 Length 1.0 Spacing Flat cable	1
Connect between Main board and Servo		16 Lines 151 Length 1.0 Spacing Flat Cable	1
Connect between Main board and			
Servo		26 Lines 121 Length 1.0 Spacing Flat cable	1
		End clip length 70mm power cord with plug	
Power Board		(Two round pin	1
Connect between Power switch board and power board		2 lines 330 length double VH-3Y plug	1
Connect between two PCB on front panel		5 lines 60mm length single 2.0 spacing	1
Parts, complete PCB assembly			
	WLD6.672.227	Main board 737C	1
	WLD6.672.228	Output board 736C	1
	WLD6.672.229-2	Switch Power PCB 787C-2	1
	WLD6.672.229	Front PCB assy (Big part) 787C	1
	WLD6.672.229-1	Front PCB assy (Small part) 787C-1	-
	WLD6.672.223	Power supply board PCB 714C	1
	WLD6.672.230	Remote control PCB 738C	1
Blank PCB			
	WLD7.820.737C	Main board 737C	1
	WLD7.820.736C	Output board 736C	1
	WLD7.820.787C-2	Switch power PCB 787C-2	1
	WLD7.820.787C	Front PCB assy (Big part)787C	1
	WLD7.820.787C-1	Front PCB assy (Small part)787C-1	1
	WLD7.820.714C	Power supply board 714C	1
	WLD7.820.738C	Remote control 738C	1
Screws			
Fix PCB to front panel	SJ2818-87	PAHC M2.5×8	10
Fix front panel to basis	24 ♠	PWBTTO M3×8	2

DVD25/DVD101			harman/kardon	
Fix front panel to basis from two sides			KBTTO M3×6	
Fix main board			PWMTTC M3×19	
Fix main board			PWMC M3×6	
Fix power supply board			PWBTTC M3×19	
Fix mechanism			PWMTTC M3×10	
Fix IC to heat-sink			RBTTC M3×8	
Fix optical output jack			PAHO M3×8	
Fix rear panel to basis			PWMTTO M3×4	
Fix coaxial jack			PAHO M3×8	
Fix foot to basis			RTHO M4×8	
Fix top cover			PWBTTO M3×8	
Fix power switch board and Front PCB assy (Small part)			PAHC M3×8	
Fix output assy PCB			PWMTTC M3×19	
Fix SCART output		7	PWMO M3×10	
Fix SCART output	SJ2	844-87	Nut M3×3	
DV	D25 Main B	oard 7370	C	

Resistor			
R1 R3 R17 R32 R33 R54 R59 R134 R154 FB8 FB9 FB12 FB13	WLD7.075.0	0 (SMD0603)	13
L3 L10	WLD7.075.0	0 (SMD1206)	2
R46	WLD7.075.100	10 (SMD0603)	1
R4 R5 R11 R29 R34 R41 R49 R50 R51 R53 R128 R129	WLD7.075.220	22 (SMD0603)	12
R136	WLD7.075.560	56	1
R19 R36 R43 R44 R45 R114 R117 R118 R123 R131 R132 R142			
R143 R149 R150 R151R152 R153	WLD7.075.750	75 (1%,SMD0603)	18
R60	WLD7.075.101	100 (SMD0603)	1
R35 R37	WLD7.075.111	110 (SMD0603)	2
R137	WLD7.075.111	110 1%	1
R70 R75 R80 R85	WLD7.075.151	150 (1%,SMD0603)	4
R98 R99 R106 R113	WLD7.075.331	330 (SMD0603)	4
R67 R68 R72 R73 R77 R78 R82 R83	WLD7.075.431	430 (1%,SMD0603)	8
R48 R52	WLD7.075.471	470 (SMD0603)	2
R115 R116 R119 R120 R121 R122 R139 R140	WLD7.075.511	510 (1%,SMD0603)	8
R95 R97 R105 R112	WLD7.075.681	680 (SMD0603)	4
R42 R62 R86 R87 R89 R90 R91 R92 R93 R94 R100 R101 R102			
R103 R107 R108 R109 R110	WLD7.075.102	1K (1%,SMD0603)	18
R47	WLD7.075.112	1.10K (1%,SMD0603)	1
R9 R66 R69 R71R74 R76 R79 R81 R84	WLD7.075.152	1.5K (1%,SMD0603)	9
R15 R127 R130 R155 R156	WLD7.075.332	3.3K (SMD0603)	5
R64	WLD7.075.622	6.2K (SMD0603)	1
R6 R7 R8 R61 R65 R88 R96 R104 R111R133 R135	WLD7.075.103	10K (SMD0603)	11
R63	WLD7.075.823	82K (SMD0603)	1
R57	WLD7.075.104	100K (SMD0603)	1

Capacitors					
C55 C58 C61 C154 C156 C157 C158 C176 C179 C182		WLD7.075.20C	2	20PF(SMD0603)	10
C72 C73 C102 C117 C118 C119 C120 C130 C133 C134	C72 C73 C102 C117 C118 C119 C120 C130 C133 C134		2	22PF(5%,SMD0603)	10
C32 C183	C32 C183		4	47PF(SMD0603)	2
C56 C59 C62 C64 C65 C148		WLD7.075.101C		100PF(SMD0603)	6
C54 C57 C60	C54 C57 C60		1	150PF(SMD0603)	3
C90 C91 C149 C150 C151 C152 C155	90 C91 C149 C150 C151 C152 C155		2	220PF(SMD0603)	7
C153		WLD7.075.331C	3	330PF(SMD0603)	1
C190 C191 C192 C193 C194 C195 C196 C197		WLD7.075.122C	1	122(5%,SMD0805)	8
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C15 C16 C17 C	18 C19				
C20 C21C22 C23 C24 C25 C26 C27 C30 C31 C33 C34 C35 C36 C	C38 C39				
C40 C41 C42 C43 C44 C46 C47 C48 C49 C50 C51 C52 C53 C63	C66 C67				
C68 C69 C70 C71 C74 C80 C83 C84 C86 C88 C92 C94 C96 C98	C101C104	WLD7.075.104C	1	104(SMD0603)	194
C121 C127 C128 C129 C137 C139 C141 C143 C144 C145 C146 (C147 C166				
C167 C168 C169 C171 C172 C174 C175 C178 C185 C186 C187 (C188 C189				
C28 C75 C76 C89 C93 C103 C126		WLD7.075.10UF/16V	/ 1	10UF/16V	7
C107 C108 C109 C110 C122 C125 C131 C135		WLD7.075.47UF/16V	/ 4	47UF/16V	8
C37 C45 C87 C163 C164 C165 C170 C173		WLD7.075.100UF/10	DV 1	100UF/10V	8
C85 C95		WLD7.075.220UF/25V 220UF/25V		220UF/25V	2
C14 C81 C82 C97 C99 C100		WLD7.075.470UF/10V		470UF/10V	6
C138 C140 C142 C177		WLD7.075.470UF/16V		470UF/16V	4
Semiconductors					
D1 D3 D4 D5 D6 D7 D8 D9 D10 D11D12 D13 D14 D15	WLD5.4	109.IN4148	IN41	148	14
Q4 Q5 Q8 Q9 Q10 Q11	WLD5.4	19.DTC343TK	DTC	C343TK SMT3	6
Q6 Q7	WLD5.4	19.3906	3906	6 SMD	2
U2 U3	WLD5.4	49. 16Mbit	16M	Ibit SDRAM (-7ns)HY57V161610D TC-7 (4banks×512K×16bit)	2
U4	WLD5.4	49. 74ACT257	74A(CT257	1
U5	WLD5.4	49. NDV8601	NDV	/8601VWAT	1
U6 U7	WLD5.4	49. 74VHCT573A	74VI	HCT573A	2
U8	WLD5.4	49.HY29F04U8	HY2	29F800TG-90	1
U9	WLD5.4	49.HY29F05U9	HY2	29F800TG-90	1
U10	WLD5.4	49.018EZ01	SHA	ARP 018EZ01	1
U11	WLD5.4	149. BA033	BA0	33 (1A,SMDTO-252)	1
U12	WLD5.4	49. LM809M3	LM8	309M3-2.63	1
U13	WLD5.4	49. ATMEL93C46	ATM	/EL93C46	1
U14	WLD5.4	49. 74VHCT541AM	74VI	HCT541AM	1
U15	WLD5.4	49. XWM8740	XWN	M8740	1
U17 U18	WLD5.4	49. LM837M	LM8	337M	2
U16 U21	WLD5.4	49. 78L05	78L0	05(DIP)	2
U22	WLD5.4	49. 79L05	79L0	05(DIP)	1
U23 U25	WLD5.4	49. LMH6655MA	LMH	16655MA	2

harman/kardon

Oscillator			
Y1	WLD5.557.27	27MHz (basic freq.)	1
Inductor			
L4 L5 L6	WLD5.757.1	1UH(Coiling SMD1210)	3
L1	WLD5.757.2.2	2.2UH(Coiling SMD1210)	1
L8	WLD5.757.2.2	2.2UH(SMD1206)	1
L9	WLD5.757.4.7	4.7UH(SMD1206)	1
Bead	·		
L2 L7	WLD5.777.50	Insert Bead (50)	2
FB1 FB2 FB3 FB4 FB5 FB6 FB7 FB14 FB15 F16 FB17 FB18			
FB19 FB20 FB21	WLD5.777.50	50 SMD0603	15
Connector			
J1	WLD6.609.10A	PH-10A	1
J5	WLD6.609.6A	PH-6A	1
J6	WLD6.609.10A	PH-10A	1
J3	WLD6.609.26P	26P 1.0 two lines of socket	1
J2	WLD6.609.16P	16P 1.0 two lines of socket	1
J12	WLD6.609.22P	22P 1.0 two lines of socket	1
J9	WLD6.609. GP1FA550TZ	SHARP GP1FA550TZ	1
J10	WLD6.609.6G	AV1-8.4-6G(Orange)	1
J11	WLD6.609.1G	AV2-8.4-1G(Upper White Lower Red)	1
J8	WLD6.609.13G	AV3-8.4-13G(Green, blue, red)	1
J13	WLD6.609.CS-08	Video & S-Video CS-08 (Yellow)	1
	WLD7.820.737C	PCB 737C	1
DVD	25 Output Board 736C		
Resistor			
R9	WLD7.075.151	RT-1/4W-150	1
FB7 FB8	WLD7.075.0	0 SMD0603	1
R14	WLD7.075.271	270 SMD0603	1
R13	WLD7.075.391	390 SMD0603	1
R3 R6	WLD7.075.102	RT-1/4W-1K	2
R1 R2 R4 R5 R7	WLD7.075.332	3.3K SMD0603	5
R12	WLD7.075.472	4.7K SMD0603	2
R15	WLD7.075.682	6.8K SMD0603	1
R10 R11	WLD7.075.103	10K SMD0603	2
Capacitor	·	·	
C4 C5 C6 C7 C8 C9	WLD7.075.20C	20PF SMD0603	6
C1 C2 C3	WLD7.075.104C	104 SMD0603	3
C12	WLD7.075.47UF/16V	47UF/16V	1
Diode			
D1	WLD5.409.IN4148	IN4148	1
Triode			

R12 R14 R45 R46

R47

R23

C3

ZD1

Triode

Q5 Q8

Others U1

IR1/IR2

S2-S9

CN1

VFD

Q9 Q10 Q11 Q12

C6 C7

Diode

Capacitor

R4 R10 R11 R15 R24 R25 R28 R44

C1 C2 C4 C5 C9 C10 C11 C12

D3 D4 D5 D6 D7 D8 D9 D10

R16 R17 R18 R19 R20 R21 R22 R26 R27

LD8 LD9 LD10 LD11LD12 LD13 LD14 LD15

harman/kardon

4

8

9

1

1

2

8

1

8

12

1

4

2

1

9

1

8050

8550

01 02 02		DTC242TK CMT2	2
Q1 Q2 Q3	WLD5.419.DTC343TK	DTC343TK SMT3	3
Q4	WLD5.419.DTA114YKA	DTA114YKA(SMT3)	1
Bead			
FB1 FB2 FB3 FB4 FB5 FB6	WLD5.777.50	50 SMD0603	6
Others			
U1	WLD5.449.PC817	PC817 photoelectric coupler	1
J1	WLD6.609.22P	22 lines 1.0 two lines of socket	1
J2		SCART socket	1
J3	WLD5.219.001	Remote signal in/out socket SCJ351P00XS0B00	1
	WLD7.820.736C	PCB 736C	1
DV	D25 Front PCB assy (Big part)	Board 787C	
		2000.2.1010	
Resistor			
R35 R36 R37 R38 R39 R40 R41 R42	WLD7.075.151	SMD0805-150	8
R9 R13	WLD7.075.101	RT-1/6W-100	2
R7	WLD7.075.201	RT-1/6W-200	1
R44	WLD7.075.561	RT-1/6W-560	1

WLD7.075.102

WLD7.075.103

WLD7.075.330

WLD7.075.390

WLD7.075.470

WLD5.610.201

WLD5.610.104

WLD5.610.201

WLD5.610.104

WLD5.419.8050

WLD5.419.8550

WLD6.618.001

WLD7.350.025

WLD6.609.5A

1

WLD5.449.PT16311

WLD5.610.100UF/6.3V

RT-1/6W-1K

RT-1/6W-10K

RT-1/6W-33K

RT-1/6W-39K

RT-1/6W-47K

CT4-50V-200P

CD-6.3V-100UF

LBD 3 (green light)

Incept tube HS0038B

LBD 3 (No color, green or red light)

Touch switch 6×6

Voltage regulator ZD9V1

CT4-50V-104

1N4148

PT16311

PH-5A

DVD25 VFD

28	
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DVD25 Front Board (small part) 787C-1

	2		Touch switch 6×6	1
	3 WLD7.82	0.787C-1	PCB	1
	DVD25 Power sv	vitch Board 7	87C-2	
			Power Switch (Fixed pitch of holes is 20)	
SW1	WLD6.61	8. PS4E-A-040	PS4E-A-040	1
JP1			Horizontal VH three holes two pins	1
C1	WLD5.61		103 250~V	1
787C-2	WLD7.82	0.787C-2	PCB(One layer)	1
	DVD25 Power S	upply Board	714C	
Resistor				
R18	WLD5.63	60.1	RT-1W-1	1
R11	WLD5.63		RT-1/6W-10	1
R3	WLD5.63		RT-1/6W-100	1
R102	WLD5.63		RT-1/6W-220	1
R2 R6 R14	WLD5.63		RT-1/6W-330	3
R9	WLD5.63	0.471	RT-1/6W-470	1
R12	WLD5.63	0.102	RT-1/6W-1K	1
R1 R5 R7 R8 R10	WLD5.63	0.512	RT-1/6W-5.1K	5
R4	WLD5.63	0.103	RT-1/6W-10K	1
R19	WLD5.63	0.103	RT-1/4W-10K	1
R16	WLD5.63	0.683	RT-1W-68K	1
R17	WLD5.63	0.683	RT-2W-130K	1
R15	WLD5.63	0.364	RT-1W-360K	1
RV1	WLD5.65	2. FNR10K471	FNR10K471	1
R101	WLD5.63	0.0.33	Fuse resistance 1/2W-0.33	1
L4	WLD5.63	0.4.7	Fuse resistance 1/4W-4.7	1
Capacitor				
C35 C36 C37	WLD5.61	0.471	CT-50V-471	3
C30 C31	WLD5.61		High-voltage 471/AC400V	2
C18 C29	WLD5.61	9.102	High-voltage 102/AC400V	2
C20	WLD5.61	0.472	CL-100V-472	1
C21 C23	WLD5.61		CL-100V-682	2
C22 C24 C27 C28	WLD5.61	0.103	CL-100V-103	4
C26	WLD5.61		High-voltage103/1KV	1
C31 C32 C34 C38 C40 C42	WLD5.61		CT4-50V-104	6
C17 C19	WLD5.61		High-voltage104/~275V	2
C2 C13		3.33UF/50V	CD-50V-33uF	2
C39		3.47UF/16V	CD-16V-47uF	1
C14		3.47UF/50V	CD-50V-47uF	1
C1	WLD5.61	3.68UF/450V	CD295-450V-68uF	1

C3 C4 C5 C6 C7 C8	WLD5.613.220UF/16V	CD-16V-220uF	6
C11 C44	WLD5.613.470UF/16V	CD-16V-470uF	2
C12	WLD5.613.1000UF/50V	CD-16V-1000uF 105°C	
C9 C10	WLD5.613.2200UF/16V	CD-16V-2200uF 105°C	2
C25	WED5.013.22000F/10V	NC	Z
Bead, Inductor			
		Deed 0 Cult	1
L3	WLD5.777.0.6	Bead 0.6uH	1
L5	WLD5.757.1.2	Bead 1.2uH	1
L8	WLD5.757.100	L630-100 (10uH)	1
L9 L10	WLD5.757.20	20Uh filter inductor	2
L6 L7	WLD5.757.33	33uH color code inductor	2
L1 L2	WLD5.757.50mH	LCL ET20-010(50mH)	2
Diode, Regulator Tube, Bridge			
D1 D3 D4 D7 D8	WLD5.409.FR107	FR107	5
D6	WLD5.409. FR204	FR204	1
D5	WLD5.409. IN5822	IN5822	1
D9 D10 D11	WLD5.409. IN5392	IN5392(IN5393)	3
D2	WLD5.409. IN4007	IN4007	1
D12	WLD5.409. IN4148	IN4148	1
DF1	WLD5.409. KBP06	Bridge KBP06	1
IC			
IC3	WLD5.449. KA431	KA431	1
IC6	WLD5.449. L7809	L7809	1
IC4	WLD5.449 .L7808	L7808	1
IC5	WLD5.449. L7908	L7908	1
IC2	WLD5.449. PC817	PC817	1
IC1	WLD5.449. UC3842B	UC3842B	1
MOS			
BG1	WLD5.419. SSS5N90A	SSS5N90A	1
Linker			
CN1	WLD6.609.10A	TJC3-10A	1
CN2	WLD6.609.4A	TJC3-4A	1
JP1 JP2		VH three hole two pins vertical	2
Others			
F1		Fuse T1A /250V	1
		Fuse Holder	1
TR1	WLD4.704.049	Tansformer XB BCK-ER2803	1
With BG1		Heat sink SR008	1
With IC6		Heat sink SR007	1
		Earthing strip	
J1-J4 R13		J line	4
			5
714C	WLD7.820.714C	PCB (one layer)	

	nical/Packing Parts List		
Part Number	Description	Qty	Comment
WLD8.031.027-2	Chassis DZ025-2	1	
WLD8.404.014	Top cover SG012	1	Gray
WLD8.610.030-2 WLD8.809.002	Rear panel HB028-2	<u>1</u> 1	Silver
	"harman/kardon" badge Power button SA009		
WLD8.337.024	Door SC010	1	Antiflaming
WLD8.082.021 WLD7.370.001	Filter for VFD	1 1	Antiflaming
	Foot pad SD003		Antification
WLD8.085.007	Screw jacket	4	Antiflaming
WLD8.634.001	-	4	Antiflaming
WLD7.085.007	Power switch insulation strip	1	Antiflaming
WLD8.088.007	VFD cushion SD001	1	Low cushion Antiflaming
WLD8.070.008	Remote control sensor support	1	7.5mm Antiflaming
WLD8.661.001		2	11.5mm Antiflaming
WLD8.661.002		1	10mm Antiflaming
WLD8.661.003		2	Antiflaming
WLD8.605.013~014	DVD 101 RC case	1	Antiflaming
WLD7.683.009	RC conductive rubber	1	Antiflaming
WLD8.804.009	RC indication plate	2	Antiflaming
WLD7.370.002.DVD01	DVD 101 Lens on front panel	1	
WLD8.849.002	Diffusion paper	1	
WLD8.849.003	Insulation paper	1	110 x 25mm Thickness 0.2~0.25 Antiflaming material
WLD8.079.008-1	Plastic bracket for PCB	9	7x12.8mm Antiflaming material
WLD7.772.001	Ф31x19x16	1	Toroidal magnetic core
Cables			
4			
WLD7.760.004	4-core 170 length single 2.54 spacing	1	Connect between power supply board & big front panel
WLD7.760.004 WLD7.760.005		1	
	spacing 10-core 320 length double, one side spacing 2.0 and the other		panel
WLD7.760.005	spacing 10-core 320 length double, one side spacing 2.0 and the other 2.54 6-core 250 length double 2.0 spacing 10-core 380 length single 2.0 spacing	1	panel Connect between power supply board & main board
WLD7.760.005 WLD7.760.006	spacing 10-core 320 length double, one side spacing 2.0 and the other 2.54 6-core 250 length double 2.0 spacing 10-core 380 length single 2.0 spacing 22-core 60 length 1.0 spacing flat cable	1	panel Connect between power supply board & main board Connect between mechanism & main board
WLD7.760.005 WLD7.760.006 WLD7.760.007	spacing 10-core 320 length double, one side spacing 2.0 and the other 2.54 6-core 250 length double 2.0 spacing 10-core 380 length single 2.0 <u>spacing</u> 22-core 60 length 1.0 spacing flat <u>cable</u> 29-core 170 length 1.0 spacing flat cable	1 1 1	panel Connect between power supply board & main board Connect between mechanism & main board Connect between front panel & main board
WLD7.760.005 WLD7.760.006 WLD7.760.007 WLD7.760.008	spacing 10-core 320 length double, one side spacing 2.0 and the other 2.54 6-core 250 length double 2.0 spacing 10-core 380 length single 2.0 spacing 22-core 60 length 1.0 spacing flat cable 29-core 170 length 1.0 spacing	1 1 1 1	panel Connect between power supply board & main board Connect between mechanism & main board Connect between front panel & main board Connect between main board & output board
WLD7.760.005 WLD7.760.006 WLD7.760.007 WLD7.760.008 WLD7.760.009	spacing 10-core 320 length double, one side spacing 2.0 and the other 2.54 6-core 250 length double 2.0 spacing 10-core 380 length single 2.0 <u>spacing</u> 22-core 60 length 1.0 spacing flat <u>cable</u> 29-core 170 length 1.0 spacing <u>flat cable</u> End clip length 70mm power cord with plug (big & small double	1 1 1 1 1	panel Connect between power supply board & main board Connect between mechanism & main board Connect between front panel & main board Connect between main board & output board Connect between main board & servo board

Machine screws			
WLD8.950.001	PAHC M2.5×8	9	Affix PCB to front panel
WLD8.950.002	PWBTTO M3×8	2	Affix front panel to bottom shell
WLD8.903.001	KBTTO M3×6	2	Affix front panel to bottom shell from two sides
WLD8.950.003	PWMTTC M3×18	3	Affix main board
WLD8.950.004	PWMC M3×6	1	Affix main board
WLD8.950.005	PWMTTC M3×18	4	Affix power supply board
WLD8.950.006	PWMTTC M3×8	4	Affix mechanism
WLD8.950.007	RBTTC M3×8	2	Affix IC to radiator
WLD8.950.008	PAHO M3×8	1	Affix optical output jack
WLD8.950.009	PWBTTO M3×6	3	Affix rear panel to bottom shell
WLD8.950.010	PAHO M3×8	5	Affix coaxial jack
WLD8.950.011	RTHO M4×8	4	Affix foot to bottom shell
WLD8.950.012	PWBTTCr M3×8	9	Affix top cover
WLD8.950.013	PAHC M3×8	4	Affix power switch board and small panel
WLD8.950.014	PWMTTC M3×18	2	Affix output board
Packing			
WLD8.865.175	Carton box DVD101-PI001		
WLD8.870.029	Polyfoam pad PM027	[
WLD8.870.029-1	Plane polyfoam pad PM011003	<u> </u>	302x148x45
WLD8.810.119	Owner's Manual SM118	1	
WLD8.812.001	Product warranty card	1	
WLD7.760.013	AV cords	3	
WLD7.760.014	S-Video cord	1	
WLD2.018.019	Complete Remote Control	1	
Mechanism			
WLD5.018.024	Sanyo single disc Mechanism	1	
VVLD3.010.024			

Part Number Description Oty Reference designator Main PCB	DVD101 Electrica	al Parts List		
Resistor Image: Control of	Part Number	Description	Qty	Reference designator
Besistors Control Besistors NLD 7075.0 OC(SMD0603) 18 R1 R3 R17 R32 R33 R54 R59 R134 R154 C141 C139 MLD 7075.0 OC(SMD1266) 2 L3 L10 C143 C162 C181 F88 F89 F812 F813 MLD 7075.100 100C(SMD0603) 1 R46 NLD 7075 500 SG115% MLD 7075.560 SG115% 1 R136 R187 R1 R29 R34 R41 R49 R50 R51 R53 R128 R12 R13 MLD 7075.560 SG115% 1 R136 R148 R141 R149 R147 R18 R123 R131 R132 MLD 7075.501 100C1(SMD0603) 1 R460 R149 R141 R149 R141 R149 MLD 7075.101 100C1(SMD0603) 2 R45 R07 R106 R113 R1027 R75 R20 R86 MLD 7075.111 1100L(SMD0603) 4 R47 R08 R72 R73 R77 R78 R27 R28 R83 MLD 7075.511 1600L(1%, SMD0603) 2 R44 R52 R17 R107 R120 R120 R121 R122 R139 R140 R144 MLD 7075.511 5100L(1%, SMD0603) 1 R47 R47 R88 R07 R108 R197 R107 R121 R122 R139 R140 R140 MLD 7075.512 150C(1%, SMD0603) 1 R47 R47 R88 R07 R108 R108 R197				
NLD7.075.0 OQ(SMD0603) 18 R1 R3 R17 R32 R33 R54 R50 R134 R154 C141 C130 C143 C122 C181 FB8 FB9 FB12 FB13 NLD7.075.0 OQ(SMD1206) 2 L3 10 C143 C122 C181 FB8 FB9 FB12 FB13 NLD7.075.100 10Q(SMD0603) 1 R46 C143 C182 C181 FB8 FB9 FB12 FB13 NLD7.075.500 SGO1% 1 R136 C143 C182 C181 FB8 FB43 R41 R49 R50 R51 R53 R128 R12 NLD7.075.680 68Q(1%), SMD0603) 1 R19 R36 FA3 R44 R45 R117 R118 R123 R131 R132 NLD7.075.750 75Q(1%), SMD0603) 1 R60 NLD7.075.111 1100(SMD0603) 2 R35 R37 NLD7.075.151 1500(1%, SMD0603) 4 R86 R99 R106 R13 NLD7.075.151 1500(1%, SMD0603) 4 R86 R99 R106 R13 NLD7.075.511 1500(1%, SMD0603) 4 R86 R99 R106 R13 NLD7.075.511 1500(1%, SMD0603) 4 R86 R98 R106 R13 NLD7.075.511 1500(1%, SMD0603) 4 R86 R98 R106 R13 NLD7.075.511 1500(1%, SMD0603) 12 R116 R116 R119 R120 R13 R14 R44 NLD7.075.102 14K(1%, SMD0603)	Main PCB			
NLD/107-0. DL(EMU0003) 18 C+13 C fts 2 C fts FBB FB9 FB12 FB13 NLD7075.0 DC(SMU0003) 1 R46 NLD7075.00 100(SMU0003) 12 R4 FS Ft1 F29 R34 R41 R49 R50 R51 R53 R128 R12 NLD7075.50 SE017% 1 R136 NLD7075.580 SE017% 1 R136 NLD7075.580 SE017% 1 R136 NLD7075.560 750(1%, SMU0003) 13 R119 R36 R43 R44 R46 Ft17 R118 R123 R131 R132 NLD7075.5101 1000(SMU0003) 2 R35 R37 NLD7075.5111 1100(SMU0003) 4 R98 R99 F100 R13 NLD7075.511 1500(1%, SMU0003) 4 R98 R99 F100 R13 NLD7075.513 3300(2M00063) 4 R98 R99 F100 R13 NLD7075.514 1500(1%, SMU0063) 2 R48 R52 NLD7075.515 S100(1%, SMU0063) 12 R116 R116 R119 R120 R13 NLD7075.514 1500(1%, SMU0063) 14 R47 R88 R90 R01 R92 R33 R44 R10 NLD7075.512 1.040(1%, SMU0063) 18 R47 R88 R92 R178 R178 R188 R148	Resistors			
NLD / 475.0 OIX (SMD0603) 18 C143 C152 C151 FBB FB9 FB12 FB13 NLD 7075.0 OIX (SMD0603) 1 R46 NLD 7075.00 100.(SMD0603) 1 R46 NLD 7075.600 560.75% 1 R136 NLD 7075.680 660.17% 1 R136 NLD 7075.680 660.17% 1 R136 NLD 7075.610 1000.(SMD0603) 1 R60 NLD 7075.11 11001% 1 R144 R144 NLD 7075.11 11001% 1 R137 NLD 7075.11 11001% 1 R137 NLD 7075.131 1500(1%, SMD0603) 4 R86 R9 R106 R13 NLD 7075.141 11001% 1 R137 NLD 7075.131 1500(1%, SMD0603) 2 R448 R24 R78 R9 R27 R78 R7 R82 R83 NLD 7075.611 1500(1%, SMD0603) 1 R115 R116 R119 R120 R121 R122 R139 R140 R144 NLD 7075.102 1K0(1%, SMD0603) 1 R47 R88 R98 R106 R01 R01 R02 R03 R04 R104 NLD 7075.102 1500(1%, SMD0603) <				
MLD7.075.0 D02(SMD/206) 2 I.3 I.0 MLD7.075.100 100(SMD/063) 1 R46 MLD/075.220 220(SMD/063) 1 R46 MLD7.075.680 6601% 1 R136 R11 R29 R34 R41 R49 R50 R51 R53 R128 R12 MLD7.075.680 6601%, SMD/0603) 1 R14 R141 R48 R11 R129 R34 R44 F46 R117 R118 R123 R131 R132 MLD7.075.101 1000/SMD/0603) 1 R16 R149 R141 R48 R141 R148 MLD7.075.111 11001% R16 R35 R37 R107 R331 3200(SMD/063) 4 R67 R69 R106 R13 MLD7.075.111 11001% 1 R167 R89 R104 R113 R112 R132 R130 R140 R144 MLD7.075.511 5100(1%, SMD/0603) 4 R67 R69 R149 R147 R12 R21 R33 R140 R144 MLD7.075.511 6800(SMD/0603) 12 R116 R147 R112 R132 R130 R140 R144 MLD7.075.12 110KC(1%, SMD/0603) 14 R68 R97 R147 R18 R81 R06 R13 R147 R14 R21 R21 R21 R139 R140 R144 MLD7.075.12 110KC(1%, SMD/0603) 16 R416 R21 R24 R26 R37 R89 R06 R18 R28 R34 R44 R48 R	WLD7.075.0	0Ω(SMD0603)	18	
WLD7.075.220 220(SMD0803) 12 R4 R5 R11 R29 R34 R41 R49 R50 R51 R53 R128 R12 WLD7.075.560 5601% 1 R136 WLD7.075.560 680(1%, SMD0603) 1 R114 WLD7.075.500 750(1%, SMD0603) 1 R14 R38 R43 R44 R45 R117 R118 R122 R131 R132 WLD7.075.750 750(1%, SMD0603) 1 R60 WLD7.075.101 1000(SMD0603) 2 R35 R37 WLD7.075.111 1100(SMD0603) 4 R70 R75 R80 R85 WLD7.075.131 3300(RMD0603) 4 R70 R75 R80 R85 WLD7.075.431 4300(RMD0603) 2 R48 R52 WLD7.075.411 5100(1%, SMD0603) 2 R48 R58 R78 R08 R08 R182 R33 WLD7.075.411 5100(1%, SMD0603) 2 R48 R52 WLD7.075.611 5100(1%, SMD0603) 1 R416 R14 R84 R7 R88 R08 R08 R182 R23 R34 R410 R144 WLD7.075.102 1K0(1%, SMD0603) 1 R47 R2 R8 R8 R8 R0 R0 R181 R32 R33 R44 R100 WLD7.075.102 1K0(1%, SMD0603) 1 R47 R47 R47 R78 R78 R178 R08 R08 R180 R110 WLD7.075.102 1K0(WLD7.075.0	0Ω(SMD1206)	2	
MLD7.075.660 5601% 1 R13 MLD7.075.680 660(1%, SMD0603) 1 R14 MLD7.075.680 660(1%, SMD0603) 13 R19.785 R43 R44 R45 R117 R118 R123 R131 R132 R149 R141 R148 MLD7.075.101 1000(5MD0603) 1 R60 MLD7.075.101 1000(5MD0603) 2 R35 R43 R44 R45 R117 R118 R123 R131 R132 R149 R141 R148 MLD7.075.101 1000(5MD0603) 4 R70 R75 R80 R85 MLD7.075.111 1100(5MD0603) 4 R08 R98 R106 R113 MLD7.075.131 1500(1%, SMD0603) 4 R08 R98 R016 R113 MLD7.075.611 5100(1%, SMD0603) 2 R48 R52 MLD7.075.611 6100(1%, SMD0603) 2 R48 R54 R61 R89 R010 R112 R12 R12 R12 R139 R140 R144 MLD7.075.611 6100(1%, SMD0603) 1 R41 R28 R46 R61 R89 R010 R91 R02 R03 R94 R100 MLD7.075.612 1.6K0(1%, SMD0603) 1 R41 R14 R81 R17 MLD7.075.102 10K0(1%, SMD0603) 1 R47 MLD7.075.103 10K0(3MD0603) 1 R47 MLD7.075.622 2.5X0(SMD0603) 1<	NLD7.075.100	10Ω(SMD0603)	1	R46
NLD 7075.560 5601% 1 R136 NLD 7075.680 680(1%, SMD0603) 1 R149 R141 R148 NLD 7075.750 750(1%, SMD0603) 1 R149 R141 R148 NLD 7075.101 1000(SMD0603) 1 R60 R149 R141 R148 NLD 7075.111 1100(SMD0603) 2 R35 R37 MLD 7075.151 1500(1%, SMD0603) 4 R70 R75 R80 R85 NLD 7075.151 1500(1%, SMD0603) 4 R86 R98 R71 R8 R72 R73 R78 R82 R83 MLD 7075.431 4300(1%, SMD0603) 2 R48 R52 R87 R82 R23 MLD 7075.511 S100(1%, SMD0603) 2 R48 R52 R87 R88 R29 R90 R91 R92 R93 R94 R91 R94	NLD7.075.220	22Ω(SMD0603)	12	R4 R5 R11 R29 R34 R41 R49 R50 R51 R53 R128 R12
MLD7.075.680 66Q(1%, SMD0603) 1 R114 MLD7.075.750 75Q(1%, SMD0603) 13 R19.86 Ad3 R44 R45 R117 R118 R123 R131 R132 MLD7.075.101 1000(SMD0603) 2 R35 R37 MLD7.075.111 1100(1% R19 R36 R43 R44 R45 R117 R118 R123 R131 R132 MLD7.075.111 1100(1% R19 R36 R43 R44 R45 R117 R118 R123 R131 R132 MLD7.075.151 1500(1%, SMD0603) 4 R86 R98 R106 R113 MLD7.075.151 1500(1%, SMD0603) 4 R86 R98 R106 R113 MLD7.075.471 4700(SMD0603) 2 R48 R52 MLD7.075.681 6800(SMD0603) 4 R96 R97 R98 R960 R91 R32 R98 R4100 MLD7.075.612 1400(1%, SMD0603) 18 R21 R21 R138 R107 R108 R198 R110 MLD7.075.612 1400(1%, SMD0603) 1 R47 R41 R21 R2 R138 R108 R119 MLD7.075.102 1400(1%, SMD0603) 1 R47 R16 R108 R108 R10 R108 R198 R110 MLD7.075.122 1.5KQ(1%, SMD0603) 1 R47 R47 R2 R68 R97 R94 R84 R108 MLD7.075.122 1.5KQ(1%, SMD0603) 1 R67 R16 R108 R49 R94	WLD7.075.560	56Ω1%	1	
NUD7.075.760 750(11%, SMID0603) 13 R149 R141 R148 NUD7.075.101 1000(SMID0603) 1 R60 NUD7.075.111 1100(1%, SMID0603) 2 R35 R37 NUD7.075.151 1500(1%, SMID0603) 4 R68 R98 R106 R113 NUD7.075.151 1500(1%, SMID0603) 4 R68 R98 R106 R113 NUD7.075.331 3300(SMID0603) 4 R68 R92 R106 R113 NUD7.075.471 4700(SMID0603) 2 R48 R52 NUD7.075.641 600(SMID0603) 12 R116 R119 R120 R121 R122 R138 R140 R144 NUD7.075.641 4700(SMID0603) 18 R47 R05 R81 R88 R00 R91 R02 R93 R94 R100 NUD7.075.612 110K0(1%, SMID0603) 1 R47 NUD7.075.612 1.0K0(1%, SMID0603) 1 R47 NUD7.075.622 0.5X0(SMID0603) 5 R15 R127 R130 R15 R186 NUD7.075.622 0.5X0(SMID0603) 1 R64 NUD7.075.103 10K0(GMID0603) 1 R64 NUD7.075.22C 22PF(5%, SMID0603) 1 R57 Capa			1	
MLD 7075 101 1000(SMD0603) 1 R60 MLD 7075 111 1100(SMD0603) 2 R33 R37 MLD 7075 111 1100(SMD0603) 4 R70 R75 R80 R85 MLD 7075 131 1500(1%, SMD0603) 4 R87 R68 R29 R70 R71 78 R82 R83 MLD 7075 431 4300(1%, SMD0603) 2 R44 R82 MLD 7075 511 5100(1%, SMD0603) 2 R44 R82 MLD 7075 681 6800(SMD0603) 4 R95 R97 R105 R112 MLD 7075 681 6800(SMD0603) 1 R42 R86 R87 R89 R90 R91 R2 R28 R89 R41000 MLD 7075 102 1K0(1%, SMD0603) 1 R47 R47 MLD 7075 112 1.0K0(1%, SMD0603) 1 R47 MLD 7075 122 1.5K0(1%, SMD0603) 1 R47 MLD 7075 226 6.2K0(SMD0603) 1 R47 MLD 7075 823 3.4K0(SMD0603) 1 R66 MLD 7075 823 3.2K0(SMD0603) 1 R63 MLD 7075 20C 20PF(SMD0603) 1 R63 MLD 7075 102 100K0(SMD0603) 1	WLD7.075.750	75Ω(1%, SMD0603)	13	
MLD7.075.111 1100(I%M00603) 2 R35.R37 MLD7.075.111 1100(I%, SMD0603) 4 R137 MLD7.075.151 1500(1%, SMD0603) 4 R70 R75.R80 R85 MLD7.075.131 3300(ISMD0603) 4 R39 R99 R106 R113 MLD7.075.131 4300(1%, SMD0603) 8 R67 R68 R72 R73 R77 R78 R82 R83 MLD7.075.511 6100(1%, SMD0603) 2 R48 R82 MLD7.075.611 6100(1%, SMD0603) 2 R48 R87 R105 R112 MLD7.075.611 6100(1%, SMD0603) 4 R95 R97 R105 R112 MLD7.075.102 1K0(1%, SMD0603) 1 R47 MLD7.075.102 1K0(1%, SMD0603) 1 R47 MLD7.075.102 1.5K0(1%, SMD0603) 5 R15 R127 R10 R158 R108 R109 R119 R192 R181 R84 MLD7.075.102 1.5K0(1%, SMD0603) 5 R15 R127 R10 R155 R156 MLD7.075.103 10K0(SMD0603) 1 R64 MLD7.075.103 10K0(SMD0603) 1 R63 MLD7.075.104 100K0(SMD0603) 1 R63 MLD7.075.104 <	WI D7 075 101	100O(SMD0603)	1	
MLD7 075.111 1100.1% 1 R137 MLD7 075.101 1500(11%, SMD0603) 4 R79 R75 R80 R85 MLD7 075.331 3300(SMD0603) 4 R98 R99 R106 R113 MLD7 075.431 4300(1%, SMD0603) 2 R44 R62 MLD7 075.411 4700(SMD0603) 2 R44 R62 MLD7 075.511 5100(1%, SMD0603) 12 R145 R16 R147 MLD7 075.681 6800(SMD0603) 4 R95 R97 R105 R12 MLD7 075.102 1K0(1%, SMD0603) 1 R42 R62 R86 R87 R85 R90 R91 R92 R93 R91 R91 MLD7 075.112 1.10K0(1%, SMD0603) 1 R47 MLD7 075.122 1.5K0(1%, SMD0603) 9 R9 R66 R69 R71 R74 R76 R79 R81 R84 MLD7 075.132 1.5K0(1%, SMD0603) 1 R64 MLD7 075.103 10K0(SMD0603) 1 R64 MLD7 075.103 10K0(SMD0603) 1 R63 MLD7 075.20C 20PF(SMD0603) 1 R63 MLD7 075.103 10K0KQ(SMD0603) 1 R57 MLD7 075.101 100PF(SMD0603) 1 </td <td></td> <td></td> <td></td> <td></td>				
MLD:7075.331 3300(SMD0603) 4 R98 R98 R106 R13 MLD:7075.431 4300(1%, SMD0603) 8 R67 R98 R72 R73 R77 R78 R82 R83 MLD:7075.431 4300(1%, SMD0603) 2 R44 R45 MLD:705.611 5100(1%, SMD0603) 12 R115 R116 R119 R120 R121 R122 R139 R140 R144 MLD:705.611 6800(SMD0603) 4 R95 R97 R105 R12 MLD:705.612 1K0(1%, SMD0603) 1 R47 MLD:705.152 1.5K0(1%, SMD0603) 1 R64 MLD:705.22 6.2K0(SMD0603) 1 R64 MLD:705.522 2.2K0(SMD0603) 1 R63 MLD:705.523 82K0(SMD0603) 1 R67 MLD:705.524 2.2K0(SMD0603) 1 R57 MLD:7055.225 2.2PF(5%, SMD0603) 10 C56 C58 C61 C154 C156 C157 C158 C176 C179 C18: MLD:7075.104 100K0(SMD0603) <td></td> <td>· · · · · ·</td> <td>1</td> <td></td>		· · · · · ·	1	
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MLD7.075.471 470Ω(SMD0603) 2 R48 R52 MLD7.075.511 510Ω(1%, SMD0603) 12 R115 R116 R119 R120 R121 R122 R139 R140 R144 R145 R146 R147 MLD7.075.681 680Ω(SMD0603) 4 R95 R97 R05 R12 R105 R116 R119 R120 R121 R122 R139 R140 R144 R145 R146 R147 MLD7.075.102 1KΩ(1%, SMD0603) 1 R47 R24 R52 R57 R57 R58 R90 R91 R92 R93 R94 R100 R101 R102 R103 R107 R108 R109 R110 MLD7.075.112 1.10KQ(1%, SMD0603) 1 R47 MLD7.075.122 1.5KQ(1%, SMD0603) 5 R15 R127 R130 R155 R156 MLD7.075.122 6.2KQ(SMD0603) 1 R64 NLD7.075.622 6.2KQ(SMD0603) 1 R64 NLD7.075.623 82KQ(SMD0603) 1 R64 NLD7.075.104 100KQ(SMD0603) 1 R63 NLD7.075.20C 20PF(SMD0603) 10 C25 C58 C61 C154 C156 C157 C158 C176 C179 C18 NLD7.075.101C 100PF(SMD0603) 2 C32 C183 MLD7.075.101 C152 NLD7.075.101C 100PF(SMD0603) 2 C30 C11 C152 C155 C16 C17 C18 C159 C154 C155 NLD7.075.101C <t< td=""><td>NLD7.075.331</td><td></td><td>4</td><td></td></t<>	NLD7.075.331		4	
MLD7.075.511 510Ω(1%, SMD0603) 12 R115 R116 R119 R120 R121 R122 R139 R140 R144 R145 R146 R147 MLD7.075.681 680Ω(SMD0603) 4 R36 R37 R105 R12 MLD7.075.102 1KΩ(1%, SMD0603) 18 R141 R116 R19 R120 R121 R122 R139 R140 R144 R145 R146 R147 MLD7.075.102 1KΩ(1%, SMD0603) 1 R47 R87 R88 R37 R38 R90 R91 R92 R93 R94 R100 R101 R102 R103 R107 R108 R109 R110 MLD7.075.152 1.5KΩ(1%, SMD0603) 1 R47 R47 R87 R88 R37 R38 R90 R91 R92 R93 R94 R100 R101 R102 R103 R107 R108 R109 R110 MLD7.075.152 1.5KΩ(1%, SMD0603) 1 R47 R47 R74 R76 R79 R81 R84 MLD7.075.322 3.3KΩ(SMD0603) 1 R64 R47 R145 R116 R19 R120 R155 R156 MLD7.075.103 10KΩ(SMD0603) 1 R63 R15 R112 R130 R155 R156 MLD7.075.104 100KΩ(SMD0603) 1 R67 R88 R61 R65 R68 R96 R104 R111 R133 R135 MLD7.075.104 100KΩ(SMD0603) 1 R67 R63 MLD7.075.104 100KΩ(SMD0603) 10 C52 C58 C61 C154 C156 C157 C158 C176 C179 C188 MLD7.075.104 100KΩ(SMD0	NLD7.075.431	430Ω(1%, SMD0603)	8	R67 R68 R72 R73 R77 R78 R82 R83
MLD 7075.511 5100(1%, SMD0603) 12 R145 R146 R147 MLD 7.075.681 6800((SMD0603) 4 R95 R97 R105 R112 MLD 7.075.102 1K0(1%, SMD0603) 18 R42 R52 R86 R87 R89 R90 R91 R92 R93 R94 R100 R101 R102 R103 R107 R108 R109 R110 MLD 7.075.112 1.10K0(1%, SMD0603) 1 R47 MLD 7.075.122 1.5K0(1%, SMD0603) 9 R9 R66 R69 R71 R74 R76 R79 R81 R84 MLD 7.075.122 1.5K0(1%, SMD0603) 1 R64 MLD 7.075.622 6.2K0(SMD0603) 1 R64 MLD 7.075.103 10KQ(SMD0603) 1 R63 MLD 7.075.104 100KQ(SMD0603) 1 R57 MLD 7.075.20C 20PF(SMD0603) 10 C55 C58 C61 C154 C156 C157 C158 C176 C179 C183 MLD 7.075.20C 20PF(SMD0603) 10 C72 C73 C102 C117 C118 C119 C120 C130 C133 C1 MLD 7.075.101C 100PF(SMD0603) 2 C32 C183 MLD 7.075.102 100PF(SMD0603) 2 C32 C183 MLD 7.075.101C 100PF(SMD0603) 4 C54 C57 C60 C153 MLD 7.075.102C 22PF(5%, SMD0603)	WLD7.075.471	470Ω(SMD0603)	2	
MLD7.075.102 1KΩ(1%, SMD0603) 18 R42 R62 R67 R68 R67 R68 R60 R61 R62 R63 R64 R100 R101 R102 R103 R107 R108 R109 R110 MLD7.075.112 1.10KΩ(1%, SMD0603) 1 R47 MLD7.075.122 1.5KΩ(1%, SMD0603) 9 R8 R68 R69 R71 R74 R76 R79 R81 R84 MLD7.075.332 3.3KQ(SMD0603) 1 R64 MLD7.075.622 6.2KΩ(SMD0603) 1 R64 MLD7.075.103 10KΩ(SMD0603) 1 R63 MLD7.075.104 100KΩ(SMD0603) 1 R63 MLD7.075.104 100KΩ(SMD0603) 1 R63 MLD7.075.20C 20PF(SMD0603) 10 C55 C58 C61 C154 C156 C157 C158 C176 C179 C18 MLD7.075.20C 20PF(SMD0603) 10 C72 C73 C102 C117 C118 C119 C120 C130 C133 C1 MLD7.075.101C 100PF(SMD0603) 2 C32 C183 MLD7.075.151C 150PF(SMD0603) 4 C54 C57 C60 C153 MLD7.075.104C 104 (SMD0603) 5 C190 C191 C192 C193 C194 C195 C196 C197 K12.70.75.104C 104 (SMD0603) 6 C190 C191 C192 C193 C194 C195 C196 C197 K12.70.75.104C <	WLD7.075.511	510Ω(1%, SMD0603)	12	
NLD 705.102 IKQ[1%, SMD0603) 18 R101 R102 R103 R107 R108 R109 R110 NLD 705.112 1.10KQ(1%, SMD0603) 1 R47 NLD 705.152 1.5KQ(1%, SMD0603) 9 R8 R68 R69 R71 R74 R76 R79 R81 R84 NLD 705.322 3.3KQ(SMD0603) 5 R15 R127 R130 R155 R158 NLD 705.622 6.2KQ(SMD0603) 1 R64 NLD 705.623 8.2KQ(SMD0603) 1 R67 R8 R61 R65 R88 R96 R104 R111 R133 R135 NLD 705.623 8.2KQ(SMD0603) 1 R63 NLD 705.104 100KQ(SMD0603) 1 R67 Capacitors	NLD7.075.681	680Ω(SMD0603)	4	R95 R97 R105 R112
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NLD7.075.332 3.3KΩ(SMD0603) 5 R15 R127 R130 R155 R156 NLD7.075.622 6.2KΩ(SMD0603) 1 R64 NLD7.075.103 10KΩ(SMD0603) 1 R63 NLD7.075.223 82KΩ(SMD0603) 1 R63 NLD7.075.20C 20PF(SMD0603) 1 R57 Capacitors 10 C55 C58 C61 C154 C156 C157 C158 C176 C179 C18 NLD7.075.20C 20PF(SMD0603) 10 C72 C73 C102 C117 C118 C119 C120 C130 C133 C1 NLD7.075.22C 22PF(5%, SMD0603) 10 C72 C73 C102 C117 C118 C119 C120 C130 C133 C1 NLD7.075.47C 47PF(SMD0603) 2 C32 C183 NLD7.075.151C 100PF(SMD0603) 8 C54 C57 C60 C153 NLD7.075.151C 100PF(SMD0603) 4 C54 C57 C60 C153 NLD7.075.122C 122 (5%, SMD0805) 8 C190 C191 C192 C193 C194 C195 C196 C197 NLD7.075.104C 104 (SMD0603) 91 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C15 C16 C17 C18 C19 C20 C21 C22 C32 C42 C5 C2 C4 C2 C4 C4 C48 C47 C48 C48 C50 C50 C51 C52 C53 C63 C68 C69 C20 C21 C22 C3 C24 C25 C26 C2 C3 C4 C4 C48 C47 C48 C48 C50 C50 C51 C52 C53 C63 C68 C69 <t< td=""><td></td><td></td><td>9</td><td></td></t<>			9	
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Capacitors Capacitors WLD7.075.20C 20PF(SMD0603) 10 C55 C58 C61 C154 C156 C157 C158 C176 C179 C18 WLD7.075.22C 22PF(5%, SMD0603) 10 C72 C73 C102 C117 C118 C119 C120 C130 C133 C1 WLD7.075.47C 47PF(SMD0603) 2 C32 C183 WLD7.075.101C 100PF(SMD0603) 8 C56 C59 C62 C64 C65C148C150 C155 WLD7.075.101C 100PF(SMD0603) 4 C54 C57 C60 C153 WLD7.075.151C 150PF(SMD0603) 4 C54 C57 C60 C153 NLD7.075.122C 122 (5%, SMD0805) 8 C190 C91 C149 C151 C152 WLD7.075.122C 122 (5%, SMD0805) 8 C190 C91 C149 C151 C152 WLD7.075.104C 104 (SMD0603) 91 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C15 C16 C17 C18 C19 C20 C21 C22 C33 C24 C25 C26 C2 C30 C31 C33 C34 C35 C36 C38 C39 C40 C41 C42 C4 C44 C46 C47 C48 C49 C50 C51 C52 C53 C63 C66 C62 C68 C69 C70 C71 C74 WLD7.075.104C 104 (SMD0603) 91 C1 C2 C3 C4 C5 C6 C7 C8 C9 C90 C41 C42 C4 C44 C46 C47 C48 C49 C50 C51 C52 C53 C63 C66 C6 C68 C69 C70 C71 C74 WLD7.075.104F/16V 104(SMD0603) 2 C77 C78 C79 C80 C83 C84 C86 C88 C92 C94 C96 C5 C101 C104 C121 C127 C128 C129 C137 C144 C145 C146 C147 C166 C167 C168 C169 C710 C172 C174 C175 C1	WLD7.075.823	82KΩ(SMD0603)	1	R63
NLD7.075.20C 20PF(SMD0603) 10 C55 C58 C61 C154 C156 C157 C158 C176 C179 C183 NLD7.075.22C 22PF(5%, SMD0603) 10 C72 C73 C102 C117 C118 C119 C120 C130 C133 C133 NLD7.075.47C 47PF(SMD0603) 2 C32 C183 NLD7.075.101C 100PF(SMD0603) 8 C56 C59 C62 C64 C65C148C150 C155 NLD7.075.101C 100PF(SMD0603) 4 C54 C57 C60 C153 NLD7.075.151C 150PF(SMD0603) 4 C54 C57 C60 C153 NLD7.075.122C 122 (5%, SMD0805) 8 C190 C191 C192 C193 C194 C195 C196 C197 NLD7.075.104C 104 (SMD0603) 91 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C155 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C2 C30 C31 C33 C34 C35 C36 C38 C39 C40 C41 C42 C4 C4 C44 C46 C47 C48 C49 C50 C51 C52 C53 C63 C66 C6 C68 C69 C70 C71 C74 NLD7.075.104C 104(SMD0603) 91 C17 C78 C79 C80 C83 C84 C86 C88 C92 C94 C96 C8 C101 C104 C121 C127 C128 C129 C137 C144 C145 NLD7.075.104F/16V 104(SMD0603) 7 C28 C75 C76 C89 C93 C103 C126 C107 C108 C109 C110 C122 C127 C128 C129 C137 C144 C145 NLD7.075.100F/16V 100F/16V 7 C28 C75 C76 C89 C93 C103 C126	WLD7.075.104	100KΩ(SMD0603)	1	R57
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NLD7.075.104C 104 (SMD0603) 91 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C2 C30 C31 C33 C34 C35 C36 C38 C39 C40 C41 C42 C4 C44 C46 C47 C48 C49 C50 C51 C52 C53 C63 C66 C6 C68 C69 C70 C71 C74 NLD7.075.104C 104(SMD0603) C77 C78 C79 C80 C83 C84 C86 C88 C92 C94 C96 C9 C101 C104 C121 C127 C128 C129 C137 C144 C145 C146 C147 C166 C167 C168 C169 C171 C172 C174 C175 C185 C186 C187 C188 C189 C159 C160 NLD7.075.10UF/16V 10UF/16V 7 C28 C75 C76 C89 C93 C103 C126 NLD7.075.10UF/16V 47UF/16V 8 C107 C108 C109 C110 C122 C125 C131 C135 NLD7.075.10UF/10V 100UF/10V 8 C37 C45 C87 C163 C164 C165 C170 C173 NLD7.075.220UF/25V 220UF/25V 2 C85 C95	WLD7.075.122C	122 (5%, SMD0805)	8	C190 C191 C192 C193 C194 C195 C196 C197
WLD7.075.104C 104(SMD0603) C101 C104 C121 C127 C128 C129 C137 C144 C145 C146 C147 C166 C167 C168 C169 C171 C172 C174 C175 C185 C186 C167 C168 C169 C171 C172 C174 C175 C185 C186 C187 C188 C189 C159 C160 WLD7.075.10UF/16V 10UF/16V 7 C28 C75 C76 C89 C93 C103 C126 WLD7.075.47UF/16V 47UF/16V 8 C107 C108 C109 C110 C122 C125 C131 C135 WLD7.075.100UF/10V 100UF/10V 8 C37 C45 C87 C163 C164 C165 C170 C173 WLD7.075.220UF/25V 220UF/25V 2 C85 C95	WLD7.075.104C	104 (SMD0603)	91	C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C2 C30 C31 C33 C34 C35 C36 C38 C39 C40 C41 C42 C4 C44 C46 C47 C48 C49 C50 C51 C52 C53 C63 C66 C6
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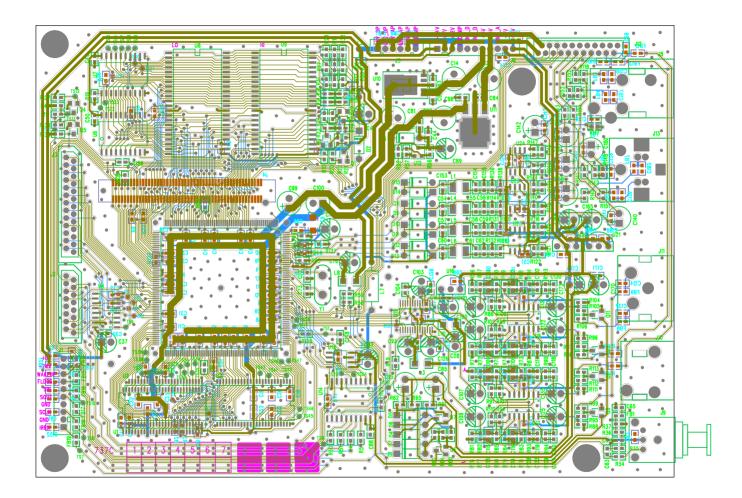
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Miscellaneous Miscellaneous WLD5.557.27 27MHz (basic freq.) Oscillator 1 Y1 WLD5.757.1 1UH (Colling, SMD1210) Ceramics 4 L4 L5 L6 L1 WLD5.757.2 2.2UH (SMD1206) 1 L8 WLD5.757.4.7 4.7UH (SMD1206) 1 L9 WLD5.77.50 Insert magnetic bead (500) 2 L2 L7 WLD5.77.50 Son SMD603 15 FB1 FB2 FB3 FB4 FB5 FB6 FB7 FB14 FB15 F16 FB1 WLD6.609.10A PH-10A 1 J1 WLD6.609.20P 20P 1.0 two lines of socket 1 J2 WLD6.609.22P 22P 1.0 two lines of socket 1 J12 WLD6.609.23P 22P 1.0 two lines of socket 1 J12 WLD6.609.24 Z4 X-16 (Upper White 1 J12 WLD6.609.13G AV1-8.4-6G (Grange) 1 J10 WLD6.609.23G AV2-8.4-1G (Upper White 1 J11 UWLD6.609.23G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J8	WLD5.449. LMH6655MA	LMH6655MA	2	U23 U25
WLD5.557.27 27MHz (basic freq.) Oscillator 1 Y1 WLD5.757.1 1UH (Coling, SMD1210) Ceramics 4 L4 L5 L6 L1 WLD5.757.2 2.2UH (SMD1206) 1 L9 WLD5.77.50 Insert magnetic bead (50Ω) 2 L2 L7 WLD5.77.50 Insert magnetic bead (50Ω) 2 L2 L7 WLD6.609.10A PH-10A 1 J1 WLD6.609.10A PH-10A 1 J6 (-24V empty) WLD6.609.10A PH-10A 1 J6 (-24V empty) WLD6.609.29P 29P 1.0 two lines of socket 1 J2 WLD6.609.29P 29P 1.0 two lines of socket 1 J1 WLD6.609.66 AV1-8.4-6G (Orange) 1 J10 WLD6.609.61 AV2-8.4-1G (Upper White 1 J11 UND6.609.62-08 Video & S-Video CS-08 (Yellow) 1 J13 WLD6.609.73G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6.609.75-08 Video & S-Video CS-08 (Yellow) 1 J13 WLD6.618. PS4E-A-040 1 ISW1 </td <td>WLD5.449. LMH6654MA</td> <td>LMH6654MA</td> <td>1</td> <td>U24</td>	WLD5.449. LMH6654MA	LMH6654MA	1	U24
WLD5.557.27 27MHz (basic freq.) Oscillator 1 Y1 WLD5.757.1 1UH (Coling, SMD1210) Ceramics 4 L4 L5 L6 L1 WLD5.757.2 2.2UH (SMD1206) 1 L9 WLD5.77.50 Insert magnetic bead (50Ω) 2 L2 L7 WLD5.77.50 Insert magnetic bead (50Ω) 2 L2 L7 WLD6.609.10A PH-10A 1 J1 WLD6.609.10A PH-10A 1 J6 (-24V empty) WLD6.609.10A PH-10A 1 J6 (-24V empty) WLD6.609.29P 29P 1.0 two lines of socket 1 J2 WLD6.609.29P 29P 1.0 two lines of socket 1 J1 WLD6.609.66 AV1-8.4-6G (Orange) 1 J10 WLD6.609.61 AV2-8.4-1G (Upper White 1 J11 UND6.609.62-08 Video & S-Video CS-08 (Yellow) 1 J13 WLD6.609.73G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6.609.75-08 Video & S-Video CS-08 (Yellow) 1 J13 WLD6.618. PS4E-A-040 1 ISW1 </td <td></td> <td></td> <td></td> <td></td>				
WLD5.757.1 1UH (Coiling, SMD1210) Ceramics 4 L4 L5 L6 L1 WLD5.757.2 2.2UH (SMD1206) 1 L8 WLD5.757.4.7 4.7UH (SMD1206) 1 L9 WLD5.757.50 Insert magnetic bead (50Ω) 2 L2 L7 WLD5.777.50 50Ω SMD0603 15 FB1 FB2 FB3 FB4 FB5 FB6 FB7 FB14 FB15 F16 FB1 WLD6.609.10A PH-10A 1 J1 WLD6 609.10A PH-10A 1 J5 WLD6 609.10A PH-10A 1 J6 (24V empty) WLD6 609.10A PH-10A 1 J2 WLD6 609.22P 22P 1.0 two lines of socket 1 J12 WLD6 609.62 AV1-8.4-6G (Orange) 1 J10 WLD6 609.64 AV2-8.4-1G (Upper White 1 J11 WLD6 609.65 AV2-8.4-1G (Upper White 1 J13 WLD6 609.13G AV2-8.4-13G (Green, blue, red) 1 J8 WLD6 609.13G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6 609.13G Horizontal VH three holes two pins 1	Miscellaneous			
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Bit Picture Fight FB2 FB3 FB4 FB5 FB6 FB7 FB14 FB15 F16 FB1 WLD5.777.50 50Ω SMD0603 15 FB1 FB2 FB3 FB4 FB5 FB6 FB7 FB14 FB15 F16 FB1 WLD6.609.10A PH-10A 1 J1 WLD6.609.10A PH-10A 1 J5 WLD6.609.10A PH-10A 1 J5 WLD6.609.2P 29P 1.0 two lines of socket 1 J2 WLD6.609.2P 22P 1.0 two lines of socket 1 J12 WLD6.609.2P 22P 1.0 two lines of socket 1 J12 WLD6.609.2P 22P 1.0 two lines of socket 1 J12 WLD6.609.2P 22P 1.0 two lines of socket 1 J12 WLD6.609.2P 22P 1.0 two lines of socket 1 J10 WLD6.609.1G AV-8.4-63 (Orange) 1 J10 WLD6.609.1G AV-8.4-1G (Upper White 1 J11 Lower Red) 1 J13 J13 WLD6.618. PS4E-A-040 1 ISW1 Horizontal VH three holes two pins 1 WLD5.619.103 High voltage 103 250~ 1 <td< td=""><td></td><td></td><td></td><td></td></td<>				
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WLD6.609.10A PH-10A 1 J1 WLD6.609.6A PH-6A 1 J5 WLD6.609.2P 29P 1.0 two lines of socket 1 J2 WLD6.609.2P 22P 1.0 two lines of socket 1 J12 WLD6.609.2P 22P 1.0 two lines of socket 1 J12 WLD6.609.6G AV1-8.4-6G (Orange) 1 J10 WLD6.609.1G AV2-8.4-16G (Opper White 1 J11 Lower Red) Image: Comparison of the system of the sy	WLD5.777.50	50Ω SMD0603	15	
WLD6.609.6A PH-6A 1 J5 WLD6.609.10A PH-10A 1 J6 (-24V empty) WLD6.609.29P 29P 1.0 two lines of socket 1 J2 WLD6.609.2P 22P 1.0 two lines of socket 1 J12 WLD6.609.2P 22P 1.0 two lines of socket 1 J12 WLD6.609.3CG AV1-8.4-6G (Orange) 1 J10 WLD6.609.1G AV2-8.4-1G (Upper White 1 J11 Lower Red) WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6.609.CS-08 Video & S-Video CS-08 (Yellow) 1 J13 Power Switch Board (787C-2) WLD6.618. PS4E-A-040 1 1SW1 Horizontal VH three holes two pins 1 1JP1 WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) Resistors	WI D6 609 10A	PH-10A	1	
WLD6.609.10A PH-10A 1 J6 (-24V empty) WLD6.609.29P 29P 1.0 two lines of socket 1 J2 WLD6.609.22P 22P 1.0 two lines of socket 1 J12 WLD6.609.22P 22P 1.0 two lines of socket 1 J12 WLD6.609.6G AV1-8.4-6G (Orange) 1 J10 WLD6.609.1G AV2-8.4-1G (Upper White 1 J11 Lower Red) Lower Red) 1 J8 WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6.609.CS-08 Video & S-Video CS-08 (Yellow) 1 J13 Power Switch Board (787C-2) Power switch PS4E-A-040 1 ISW1 WLD6.618. PS4E-A-040 1 ISW1 Power Supply Board (714C) 1 C19 WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) 1 REsistors Power Supply Board (714C) 1 R18 WLD5.630.100 RT-1/6W-100Ω 1 R11 WLD5.630.100 RT-1/6W-100Ω 1 R11 WLD5.63	WLD6.609.6A			
WLD6.609.29P 29P 1.0 two lines of socket 1 J2 WLD6.609.22P 22P 1.0 two lines of socket 1 J12 WLD6.609.GP1FA550TZ SHARP GP1FA550TZ 1 J9 WLD6.609.GG AV1-8.4-6G (Orange) 1 J10 WLD6.609.1G AV2-8.4-1G (Upper White 1 J11 Lower Red) WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6.609.CS-08 Video & S-Video CS-08 (Yellow) 1 J13 Power Switch Board (787C-2) WLD6.618. PS4E-A-040 Power switch PS4E-A-040 1 1SW1 WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) WLD5.630.1 RT-1W-1Ω 1 R18 WLD5.630.10 RT-1/6W-10Ω 1 R18 WLD5.630.101 RT-1/6W-10Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102	WLD6.609.10A		1	
WLD6.609. GP1FA550TZ SHARP GP1FA550TZ 1 J9 WLD6.609.6G AV1-8.4-6G (Orange) 1 J10 WLD6.609.1G AV2-8.4-1G (Upper White 1 J11 Lower Red) 1 J8 WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J13 Power Switch Board (787C-2)	WLD6.609.29P		1	
WLD6.609.6G AV1-8.4-6G (Orange) 1 J10 WLD6.609.1G AV2-8.4-1G (Upper White 1 J11 Lower Red) I J11 WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6.609.CS-08 Video & S-Video CS-08 (Yellow) 1 J13 Power Switch Board (787C-2) Image: Comparison of the system	WLD6.609.22P	22P 1.0 two lines of socket	1	J12
WLD6.609.1G AV2-8.4-1G (Upper White 1 J11 Lower Red) 1 J8 WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J13 WLD6.609.CS-08 Video & S-Video CS-08 (Yellow) 1 J13 Power Switch Board (787C-2)	WLD6.609. GP1FA550TZ	SHARP GP1FA550TZ	1	J8
Lower Red) I J8 WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J13 WLD6.609.CS-08 Video & S-Video CS-08 (Yellow) 1 J13 Power Switch Board (787C-2) Image: Comparison of the system o	WLD6.609.6G	AV1-8.4-6G (Orange)	1	J10
WLD6.609.13G AV3-8.4-13G (Green, blue, red) 1 J8 WLD6.609.CS-08 Video & S-Video CS-08 (Yellow) 1 J13 Power Switch Board (787C-2) WLD6.618. PS4E-A-040 Power switch PS4E-A-040 1 1SW1 Horizontal VH three holes two pins 1 JJP1 WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) Resistors WLD5.630.1 RT-1W-1Ω 1 R18 WLD5.630.100 RT-1/6W-10Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102	WLD6.609.1G	AV2-8.4-1G (Upper White	1	J11
WLD6.609.CS-08 Video & S-Video CS-08 (Yellow) 1 J13 Power Switch Board (787C-2) WLD6.618. PS4E-A-040 Power switch PS4E-A-040 1 1SW1 Horizontal VH three holes two pins 1 JJP1 WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) Resistors WLD5.630.1 RT-1W-1Ω 1 R18 WLD5.630.101 RT-1/6W-10Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102				
Power Switch Board (787C-2) Image: Constraint of the system	WLD6.609.13G	AV3-8.4-13G (Green, blue, red)	1	J8
WLD6.618. PS4E-A-040 Power switch PS4E-A-040 1 1SW1 Horizontal VH three holes two pins 1 1JP1 WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) Image: Supply Board (714C) Image: Supply Board (714C) Resistors Image: Supply Board (714C) Image: Supply Board (714C) WLD5.630.1 RT-1W-1Ω 1 R18 WLD5.630.100 RT-1/6W-10Ω 1 R11 WLD5.630.101 RT-1/6W-10Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102	WLD6.609.CS-08	Video & S-Video CS-08 (Yellow)	1	J13
WLD6.618. PS4E-A-040 Power switch PS4E-A-040 1 1SW1 Horizontal VH three holes two pins 1 1JP1 WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) Image: Supply Board (714C) Image: Supply Board (714C) Resistors Image: Supply Board (714C) Image: Supply Board (714C) WLD5.630.1 RT-1W-1Ω 1 R18 WLD5.630.100 RT-1/6W-10Ω 1 R11 WLD5.630.101 RT-1/6W-10Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102				
Horizontal VH three holes two pins 1 1JP1 WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) Image: Comparison of the comparison o	Power Switch Board (787C-2)			
Horizontal VH three holes two pins 1 1JP1 WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) Image: Comparison of the comparison o				
WLD5.619.103 High voltage 103 250~ 1 C19 Power Supply Board (714C) Image: Constraint of the second s	WLD6.618. PS4E-A-040		1	
Power Supply Board (714C) Image: Control of the second seco				
Resistors 1 R18 WLD5.630.100 RT-1/6W-10Ω 1 R11 WLD5.630.101 RT-1/6W-10Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102	WLD5.619.103	High voltage 103 250~	1	C19
Resistors 1 R18 WLD5.630.100 RT-1/6W-10Ω 1 R11 WLD5.630.101 RT-1/6W-10Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102			_	
WLD5.630.1 RT-1W-1Ω 1 R18 WLD5.630.100 RT-1/6W-10Ω 1 R11 WLD5.630.101 RT-1/6W-100Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102	Fower Supply Board (714C)			
WLD5.630.100 RT-1/6W-10Ω 1 R11 WLD5.630.101 RT-1/6W-100Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102	Resistors			
WLD5.630.100 RT-1/6W-10Ω 1 R11 WLD5.630.101 RT-1/6W-100Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102				
WLD5.630.101 RT-1/6W-100Ω 1 R3 WLD5.630.221 RT-1/6W-220Ω 1 R102	WLD5.630.1			
WLD5.630.221 RT-1/6W-220Ω 1 R102	WLD5.630.100			
	WLD5.630.101			
WLD5.630.331 RT-1/6W-330Ω 3 R2 R6 R14	WLD5.630.221			
	WLD5.630.331	RT-1/6W-330Ω	3	R2 R6 R14

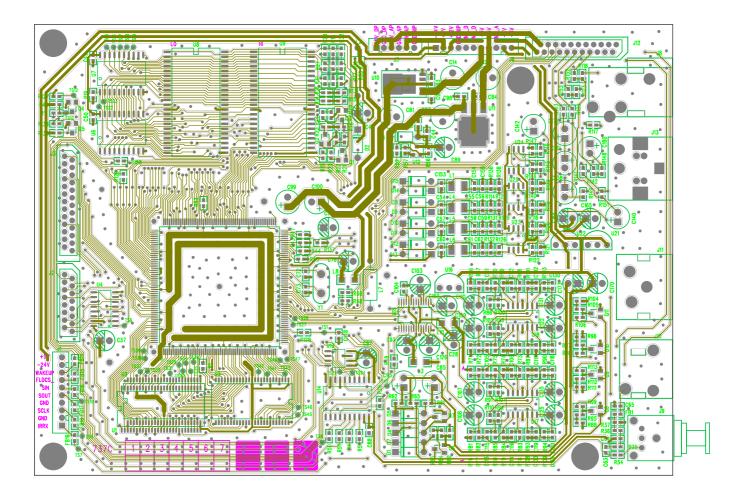
Part Number	Description	Qty	Reference designator
		_	
Power Supply Board (714C)			
WLD5.630.471	RT-1/6W-470Ω	1	R9
WLD5.630.102	RT-1/6W-1KΩ	1	R12
WLD5.630.512	RT-1/6W-5.1KΩ	5	R5 R7 R8 R10 R20
WLD5.630.103	RT-1/6W-10KΩ	1	R4
WLD5.630.103	RT-1/4W-10KΩ	1	R19
WLD5.630.683	RT-1W-68KΩ	1	R16
WLD5.630.134	RT-2W-130KΩ	1	R17
WLD5.630.364	RT-1W-360KΩ	1	R1
WLD5.652. FNR10K471	FNR10K471 Varistor	1	RV1
WLD5.630.0.33	Fuse resistor 1/2W-0.33Ω	1	R101
WLD5.630.4.7	Fuse resistor 1/4W-4.7Ω	1	RF1
Capacitors			
WLD5.610.471	CT-50V-471 Monolithic	3	C35 C36 C37
WLD5.619.471	High voltage 471/AC400V Y type	2	C3 C4
WLD5.619.102	High voltage 102/AC400V Y type	2	C5 C7
WLD5.610.472	CL-100V-472 Terylene	1	C20
WLD5.610.682	CL-100V-682 Terylene	2	C21 C23
WLD5.610.103	CL-100V-103	4	C22 C24 C27 C28
WLD5.619.103	High voltage103/1KV	1	C26
WLD5.610.104	CT4-50V-104 Monolithic	6	C31 C32 C34 C38 C40 C42
WLD5.619.104	High voltage104/~275V	2	C1 C2 C30 C13
WLD5.613.33UF/50V WLD5.613.47UF/16V	CD-50V-33uF CD-16V-47uF	1	C39
WLD5.613.47UF/50V	CD-50V-47uF CD-50V-47uF	1	C19 C14
WLD5.613.68UF/450V	CD295-450V-68uF	1	C6
WLD5.613.220UF/16V	CD-16V-220uF	6	C15 C16 C18 C29 C45 C8
WLD5.613.470UF/16V	CD-16V-470uF	2	C11 C44
WLD5.613.1000UF/50V	CD-16V-1000uF	3	C12 C9 C10
WED3.013.100001730V	Not used	1	C25
Semiconductors			
WLD5.409.FR107	FR107	5	D1 D3 D4 D7 D8
WLD5.409. FR204	FR204	1	D6
WLD5.409. IN5822	IN5822	1	D5
WLD5.409. IN5392	IN5392 (IN5393)	3	D9 D10 D11
WLD5.409. IN4007	IN4007	1	D2
WLD5.409. IN4148	IN4148	1	D12
WLD5.409. KBP06	Bridge KBP06	1	DF1
WLD5.449. KA431	KA431	1	IC3
WLD5.449. L7809	L7809	1	IC6
WLD5.449.L7808	L7808	1	IC4
WLD5.449. L7908	L7908	1	IC5
WLD5.449. PC817	PC817	1	IC2
WLD5.449. UC3842B	UC3842B	1	IC1
WLD5.419. SSS5N90A	SSS5N90A or IRFBE30	1	BG1
Miscellaneous			
WLD5.777.0.6	Magnetic bead 0.6uH	1	L3
WLD5.757.1.2	Magnetic bead 1.2uH	1	L5
WLD5.757.100	L630-100 (10uH)	1	L8
WLD5.757.20	20uH filter inductor	2	L9 L11
WLD5.757.33	33uH color code inductor DIP	2	L6 L7
WLD5.757.50mH	LCL ET20-010 (50mH)	2	L1 L10
WLD7.710.001	Fuse T1A /125V	1	F1
WLD7.747.001	Fuse Holder	1	
WLD4.704.049	Transformer XB BCK-ER2803	1	TR1

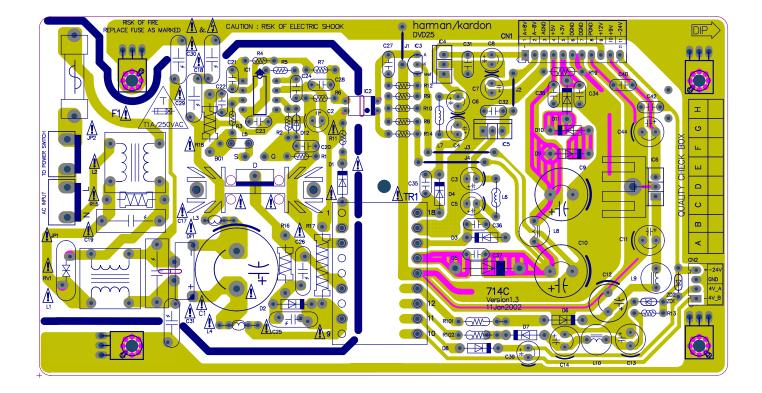
Part Number	Description	Qty	Reference designator
Power Supply Board (714C)			
	Radiator SR008	1	With BG1
	Radiator SR007	1	With IC6
	Earthing strip	4	
WLD7.769.001	J line	5	J1-J4 R13
WLD6.609.10A	TJC3-10A	1	CN1 (-24 empty)
WLD6.609.4A	TJC3-4A	1	CN2
	Vertical VH three holes two pins	2	JP1 Orange
	-		JP2 White
Standby switch PCB (787C-1			
WLD5.610.LD1	LED Φ3 (No color, green or red light)	1	LD1
WLD6.618.S1	Touch switch 6×6	1	S1
WLD7.820.787C-1	PCB	1	787C-1
WLD7.020.707C-1	FCB	I	1870-1
Front PCB (787C)			
Resistor			
WLD7.075.151	SMD0805-150Ω	6	R35 R36 R37 R39 R41 R42
WLD7.075.271	SMD0805-270Ω	2	R38 R40
WLD7.075.101	RT-1/6W-100Ω	2	R9 R13
WLD7.075.221	RT-1/6W-200Ω	1	R7
WLD7.075.561	RT-1/6W-560Ω Near Q12	1	R44
WLD7.075.102	RT-1/6W-1KΩ	4	R12 R14 R45 R46
WLD7.075.103	RT-1/6W-10KΩ	6	R4 R10 R11 R15 R28 R44
WLD7.075.330	RT-1/6W-33KΩ	9	R16 R17 R18 R19 R20 R21 R22 R26 R27
WLD7.075.390	RT-1/6W-39KΩ	1	R47
WLD7.075.470	RT-1/6W-47KΩ	1	R23
WLD5.630.472	RT-1/6W-4.7KΩ	2	R24, R25
Capacitors			
WLD5.610.201	CT4-50V-200P	2	C6 C7
WLD5.610.104	CT4-50V-104	8	C1 C2 C4 C5 C9 C10 C11 C12
WLD5.610.100UF/6.3V	CD-6.3V-100uF	1	C3
Semiconductors			
		0	
WLD5.409.IN4148 WLD5.610.001	1N4148 LBD Ф3 L7L-1CHGE	8	D3 D4 D5 D6 D7 D8 D9 D10 LD8 LD9 LD10 LD11 LD12 LD13 LD14 LD15
WLD5.610.001	(Green light)	8	
WLD5.409.ZD9V1	Voltage regulator diode ZD9V1	1	ZD1
WLD5.419.8050	8050	4	Q9 Q10 Q11 Q12
WLD5.419.8550	8550	2	Q5 Q8
Miscellaneous			
WLD5.449.PT6318	PT6318	1	U1
WLD7.072.001	Incept tube HS0038B	1	IR1/IR2
WLD6.618.001	Touch switch 6×6	9	\$2-\$9
WLD6.609.5A WLD7.350.025	PH-5A DVD 25 VFD	1	CN1 VFD
VVLD7.000.020		1	
Output Board (736C)			
Resistor			
WLD7.075.271	270Ω SMD0603	1	R14
WLD7.075.391	390Ω SMD0603	1	R13
WLD7.075.472	4.7K SMD0603	2	R12

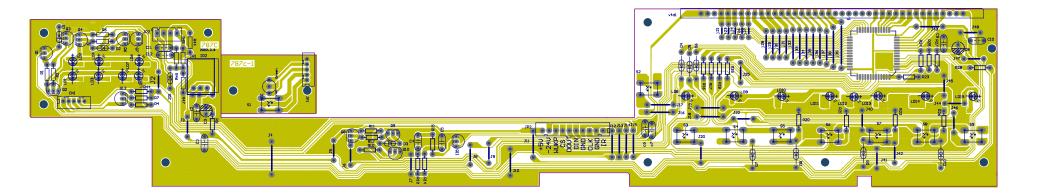
DVD25/DVD101

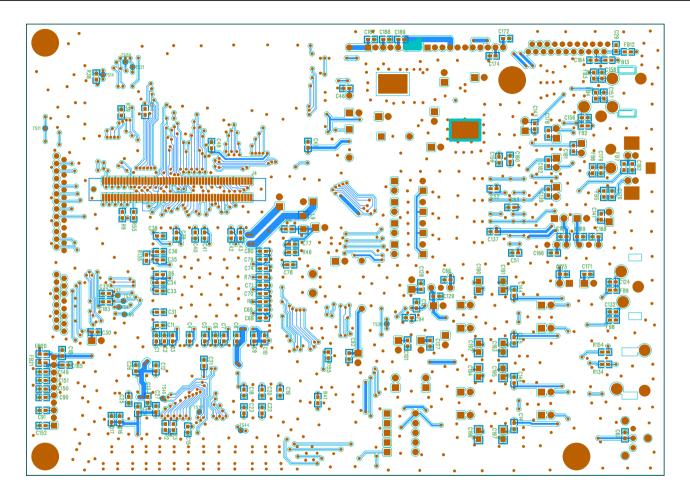
Part Number	Description	Qty	Reference designator	
Output Board (736C)				
			240.244	
WLD7.075.103	10K SMD0603	2	R10 R11	
Capacitor				
WLD5.610.47UF/16V	47UF/16V	1	C12	
Semiconductors				
WLD5.409.IN4148	IN4148	1	D1	
WLD5.419.DTA114YKA	DTA114YKA (SMT3)	1	Q4	
WLD5.449.PC817	PC817 photoelectric coupler	1	U1	
Miscellaneous				
WLD6.609.22P	22 lines 1.0 two lines of socket	1	J1	
WLD5.219.001	Remote signal in/out socket	1	J3	
	SCJ351P00XS0B00			

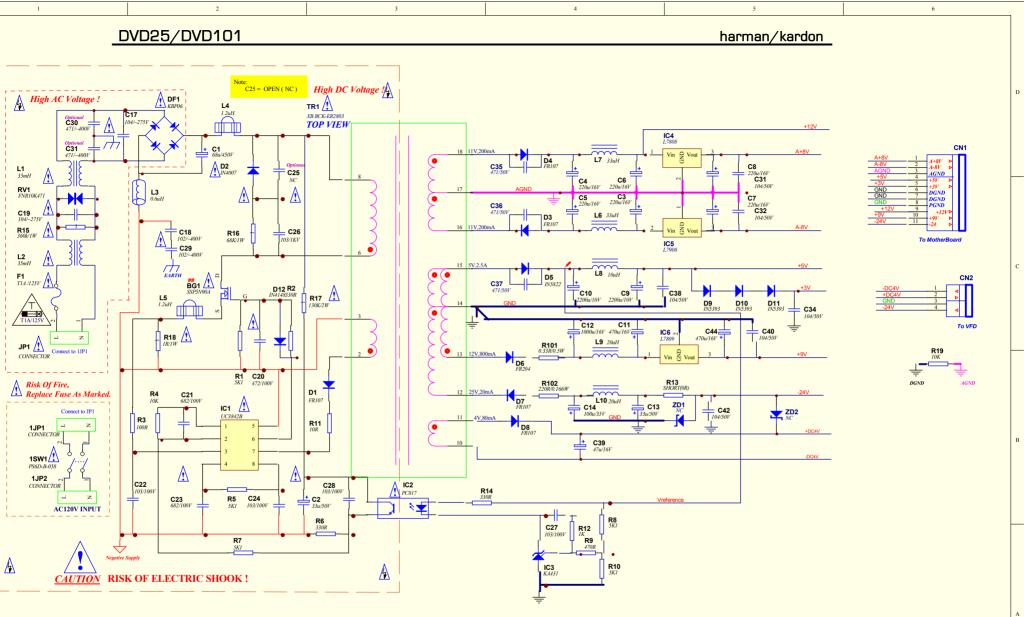










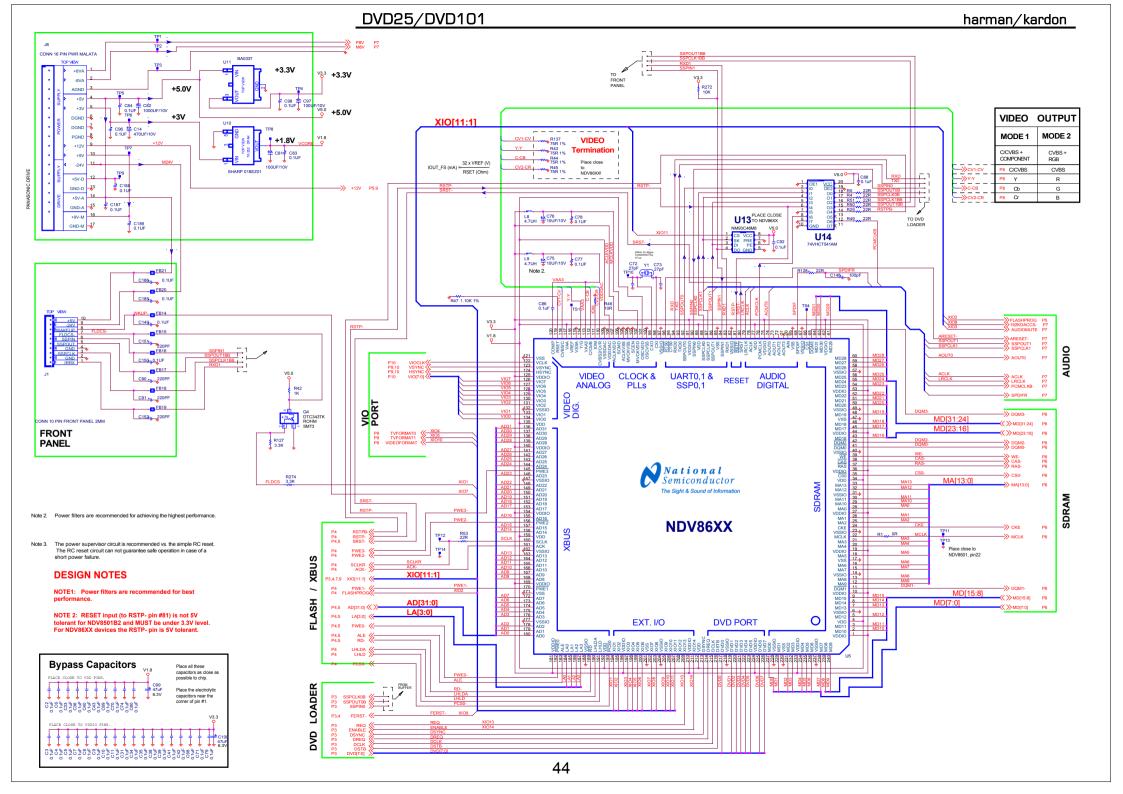


Description: The Components Marks With **H**Are Need Radiator!

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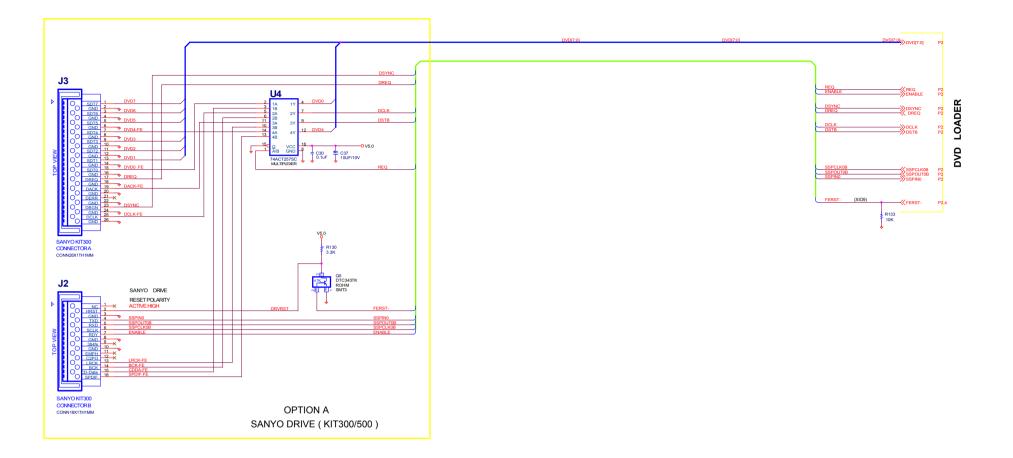
Power Supply For 714C PCB

Version 1.3



DVD25/DVD101

harman/kardon





harman/kardon

