

harman/kardon

AVR520

A/V DOLBY DIGITAL RECEIVER

SERVICE MANUAL



CONTENTS

ESD WARNING.....	2
LEAKAGE TESTING.....	3
BASIC SPECIFICATIONS.....	4
FRONT PANEL CONTROLS.....	5
REAR PANEL CONNECTIONS.....	10
REMOTE CONTROL FUNCTIONS.....	12
TROUBLESHOOTING GUIDE.....	15
PROCESSOR RESET.....	15
UNIT EXPLODED VIEW.....	16

EXPLODED VIEW PARTS LIST.....	17
BLOCK DIAGRAM.....	18
BULLETIN HK2003-07.....	19
TECH TIP HKTT2003-01.....	21
IDLE CURRENT ADJUSTMENT.....	22
ELECTRICAL PARTS LIST.....	25
SCHEMATICS.....	73
WIRING DIAGRAM.....	94
PACKAGE.....	95

harman/kardon, Inc.
250 Crossways Park Dr.
Woodbury, New York 11797

Rev4 – 2/2004

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 build-up 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 as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical change sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective 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. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES devices.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing.

Components identified with the IEC symbol  in the parts list are special significance to safety. When replacing a component identified with , use only the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

LEAKAGE TEST(FOR SERVICE ENGINEERS IN THE U.S.A)

Before returning the unit to the user, perform the following safety checks :

1. Inspect all lead dress to make certain that

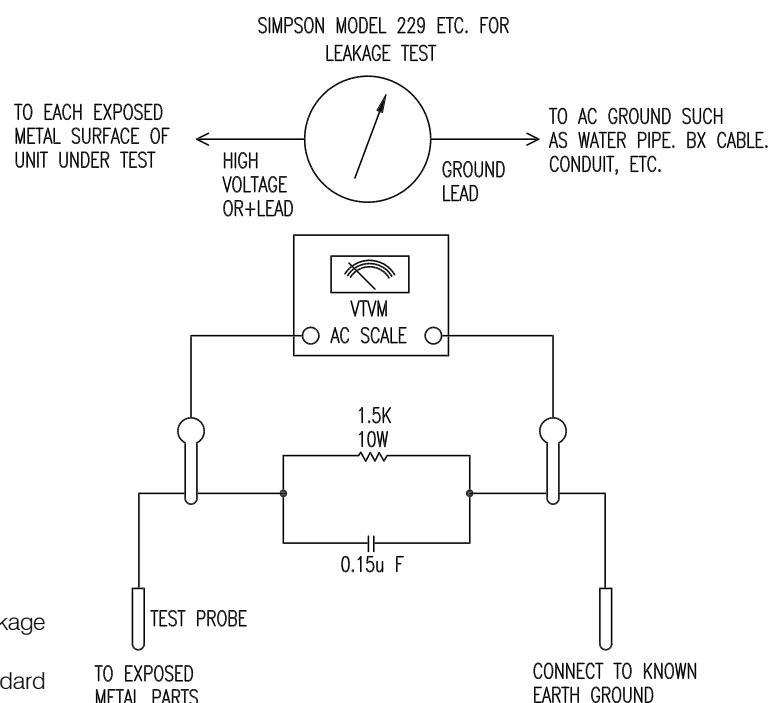
leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.

2. Be sure that any protective devices such as nonmetallic control knobs, insulating fish-papers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc. Which were removed for the servicing are properly re-installed.

3. Be sure that no shock hazard exists ; check for leakage

current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows : Plug the power cord directly into a 120 volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a

1500 ohms, 10watt Resistor paralleled by a 0.15uF capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See diagram) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



Technical Specifications

Audio Section

Stereo Mode
 Continuous Average Power (FTC)
 85 Watts per channel, 20Hz–20kHz,
 @ < 0.07% THD, both channels driven into 8 ohms

Five-Channel Surround Modes
 Power Per Individual Channel

Front L&R channels:
 75 Watts per channel
 @ < 0.07% THD, 20Hz–20kHz into 8 ohms

Center channel:
 75 Watts @ < 0.07% THD, 20Hz–20kHz into 8 ohms

Surround channels:
 75 Watts per channel
 @ < 0.07% THD, 20Hz–20kHz into 8 ohms

Input Sensitivity/Impedance
 Linear (High-Level) 200mV/47k ohms

Signal-to-Noise Ratio (IHF-A) 95dB

Surround System Adjacent Channel Separation

Analog Decoding 40dB
 (Pro Logic II, etc.)
 Dolby Digital (AC-3) 55dB
 DTS 55dB

Frequency Response
 @ 1W (+0dB, -3dB) 10Hz – 100kHz

High Instantaneous Current Capability (HCC) ±45 Amps

Transient Intermodulation Distortion (TIM)
 Unmeasurable

Rise Time 16 µsec

Slew Rate 40V/µsec

FM Tuner Section

Frequency Range 87.5–108MHz
 Usable Sensitivity IHF 1.3 µV/13.2dB
 Signal-to-Noise Ratio Mono/Stereo 70/68dB
 Distortion Mono/Stereo 0.2/0.3%
 Stereo Separation 40dB @ 1kHz
 Selectivity ±400kHz, 70dB
 Image Rejection 80dB
 IF Rejection 90dB
 Tuner Output Level 1kHz, ±75kHz Dev 500mV

AM Tuner Section

Frequency Range 520–1710kHz
 Signal-to-Noise Ratio 45dB
 Usable Sensitivity Loop 500µV
 Distortion 1kHz, 50% Mod 0.8%
 Selectivity ±10kHz, 30dB

Video Section

Television Format NTSC
 Input Level/Impedance 1Vp-p/75 ohms
 Output Level/Impedance 1Vp-p/75 ohms
 Video Frequency Response (Composite and S) 10Hz–8MHz (-3dB)
 Video Frequency Response (Component) 10Hz–30MHz (-3dB)

General

Power Requirement	AC 120V/60Hz
Power Consumption	78W idle, 694W maximum (2 channels driven)
Dimensions (Max)	
Width	17.3 inches (440mm)
Height	6.5 inches (165mm)
Depth	17.1 inches (435mm)
Weight	
35 lb (15.9 kg)	

Depth measurement includes knobs, buttons and terminal connections.

Height measurement includes feet and chassis.

All features and specifications are subject to change without notice.

Harman Kardon is a registered trademark, and Power for the Digital Revolution is a trademark, of Harman Kardon, Inc.

 EzSet™ is a trademark of Harman International Industries, Inc. (Patent No. 5,386,478).

*Manufactured under license from Dolby Laboratories.

"Dolby," "Pro Logic," "Pro Logic II" and the Double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992–1999 Dolby Laboratories, Inc. All rights reserved.

DTS, DTS Surround, DTS-ES and DTS Neo:6 are trademarks of Digital Theater Systems, Inc.

UltraStereo is a trademark of UltraStereo Corp.

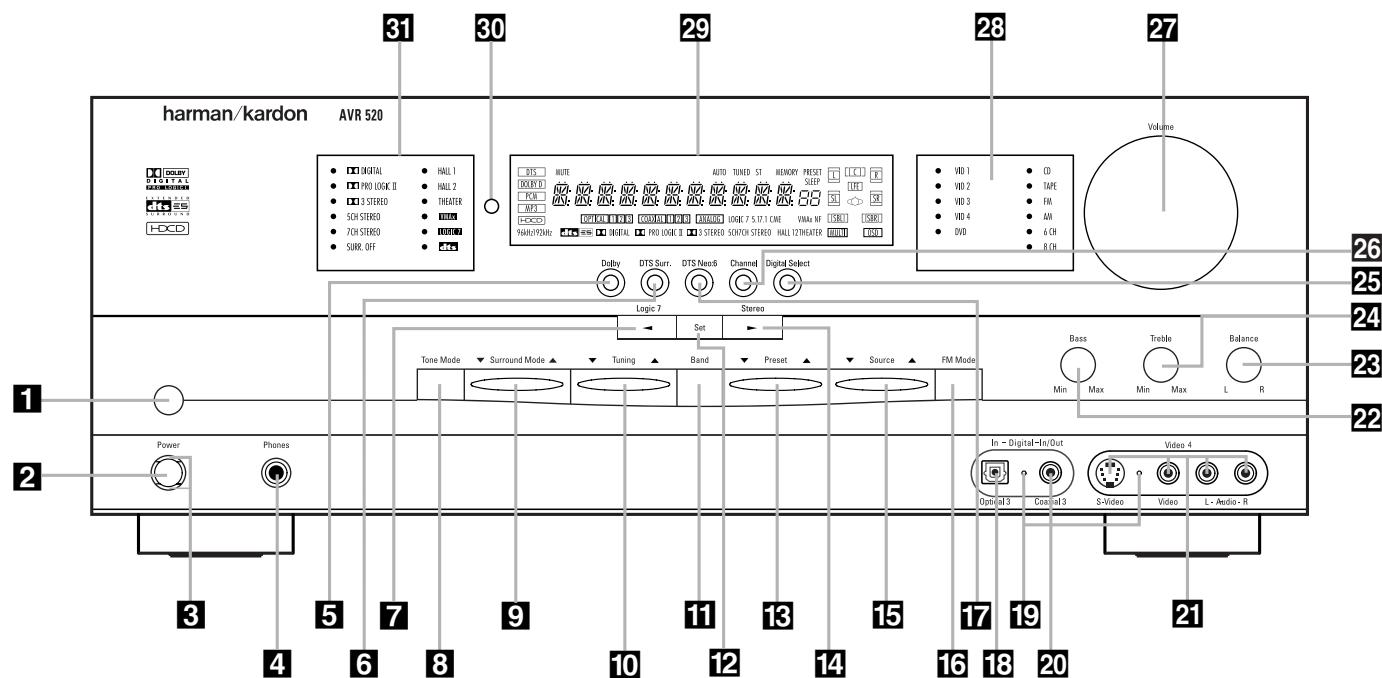
VMAX is a registered trademark of Harman International Industries, Inc., and is an implementation of Cooper Bauck Transaural Stereo under patent license.

Logic 7 is a registered trademark of Lexicon, Inc.

Crystal is a registered trademark of Cirrus Logic Corp.

HDCD system manufactured under license from Pacific Microsonics, Inc. This product is covered by one or more of the following: In the USA: 5,479,168; 5,638,074; 5,640,161; 5,808,574; 5,838,274; 5,854,600; 5,864,311; 5,872,531; and in Australia: 669114. Other patents pending.

Front Panel Controls



1 Main Power Switch: Press this button to apply power to the AVR 520. When the switch is pressed in, the unit is placed in a Standby mode, as indicated by the amber **Power Indicator** **3** surrounding the **System Power Control** **2**. This button MUST be pressed in to operate the unit. To turn the unit off and prevent the use of the remote control, this switch should be pressed until it pops out from the front panel so that the word "OFF" may be read at the top of the switch.

NOTE: This switch is normally left in the "ON" position.

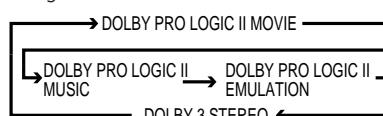
2 System Power Control: When the **Main Power Switch** **1** is "ON," press this button to turn on the AVR 520; press it again to turn

the unit off. Note that the **Power Indicator** **3** surrounding the switch will turn green when the unit is on.

3 Power Indicator: This LED will be lit in amber when the unit is in the Standby mode to signal that the unit is ready to be turned on. When the unit is in operation, the indicator will turn green.

4 Headphone Jack: This jack may be used to listen to the AVR 520's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phone plug. Note that the main room speakers will automatically be turned off when the headphone jack is in use.

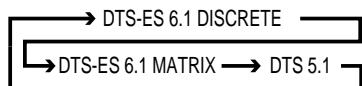
5 Dolby Mode Selector: Pressing this selector button cycles the AVR through the various Dolby surround modes. The first press of the button switches the surround mode to the last Dolby surround mode that was in use. Each subsequent press selects the next mode in the following order:



6 DTS Surround Mode Selector: Pressing this selector button cycles the AVR through the DTS surround modes. The first press of the button selects the last DTS surround mode that

Front Panel Controls

was in use. Each subsequent press selects the next DTS mode in the following order:



7 Logic 7 Mode Selector /◀ Button: This button has two functions: In normal use, press it to select one of the Logic 7 modes. When an adjustment is being made using the **Channel Select 26** or **Digital Select 25** buttons, this button may be pressed to scroll through the available options.

8 Tone Mode: Pressing this button enables or disables the Bass and Treble tone controls. When the button is pressed so that the words **TONE IN** appear in the **Main Information Display 29**, the settings of the **Bass 22** and **Treble 24** controls may be used to adjust the output signals. When the button is pressed so that the words **TONE OUT** appear in the **Main Information Display 29**, the output signal will be "flat," without any bass or treble alteration, no matter how the actual **Bass** and **Treble Controls 22/24** are adjusted.

9 Surround Mode Selector: Press this button to change the surround mode by scrolling through the list of available modes. Note that depending on the type of input, some modes are not always available. (See page 26 for more information about surround modes.)

10 Tuning Selector: Press the left side of the button to tune lower-frequency stations and the right side of the button to tune higher-frequency stations. When a station with a strong signal is reached, the **TUNED Indicator W** will be lit in the **Main Information Display 29**.

To tune manually, tap the button lightly and note that the tuner will step up one frequency increment per button press. When the button is held for a few seconds you will note that the unit will quickly search the frequency band. Release it once the fast tuning starts; the tuner will automatically scan for the next station with an acceptable signal and then stop.

11 Tuner Band Selector: Pressing this button will automatically switch the AVR 520 to the Tuner mode. Pressing it again will switch between the AM and FM frequency bands. (See page 31 for more information on the tuner.)

12 Set Button: When making choices during the setup and configuration process, press this button to enter the desired setting as shown in the **Main Information Display 29** into the AVR 520's memory.

13 Preset Station Selector: Press this button to scroll up or down through the list of stations that have been entered into the preset memory. (See page 32 for more information on tuner programming.)

14 Stereo Mode Selector /▶ Button: Pressing this selector button cycles through the stereo modes, and it is also used to turn off all surround processing and place the unit in a traditional two-channel Stereo mode. The first press selects 5-Channel Stereo, the next press selects 8-Channel Stereo, and the third press selects "SURROUND OFF," which is true Stereo.

15 Input Source Selector: Press this button to change the input by scrolling up or down through the list of input sources.

16 FM Mode Selector: Press this button to select Auto or Manual tuning. When the button is pressed so that the **AUTO Indicator X** lights, the tuner will search for the next station with an acceptable signal when the **Tuning Selector 10 21 E** is pressed. When the button is pressed so that the **AUTO Indicator X** is not lit, each press of the **Tuning Selector 10 21 E** will increase the frequency. (See page 31 for more information on using the tuner.)

17 DTS Neo:6 Mode Selector: Pressing this selector button cycles the AVR through the various DTS Neo:6 modes, which extract a five-channel surround field from two-channel program material. The first press selects the last DTS Neo:6 surround mode that was in use, and each subsequent press selects the next mode in the following order:



18 Digital Optical 3 Input: Connect the optical digital output of an audio or video product to this jack. When the input is not in use, be certain to keep the plastic cap installed to avoid dust contamination that might degrade future performance.

19 Input/Output Status Indicator: These LED indicators will normally light green to show that the front panel **Video 4 A/V 21** jacks or the **Coaxial 3 Digital 20** jacks are operating as inputs. When either of these jacks has been configured for use as an output, the indicator will turn red to show that the jack may be used for recording. (See page 20 for more information on configuring the front panel jacks as outputs, rather than inputs.)

20 Digital Coax 3 Jack: This jack is normally used for connection to the output of portable audio devices, video game consoles or other products that have a coax digital jack. It may also be configured as an output jack, to feed a digital signal to a CD-R, MiniDisc or other digital recording device. (See page 20 for information on configuring the Digital Coax 3 Jack as an output.)

21 Video 4 Input Jacks: These audio/video jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players.

22 Bass Control: Turn this control to modify the low-frequency output of the left/right channels by as much as $\pm 10\text{dB}$. Set this control to a suitable position for your taste or room acoustics.

23 Balance Control: Turn this control to change the relative volume for the front left/right channels.

NOTE: For proper operation of the surround modes, this control should be at the midpoint, or "12 o'clock", position.

24 Treble Control: Turn this control to modify the high-frequency output of the left/right channels by as much as $\pm 10\text{dB}$. Set this control to a suitable position for your taste or room acoustics.

25 Digital Select Button: When playing a source that has a digital output, press this button to select between the **Optical 18 33** and **Coaxial 20 34** **Digital** inputs. (See page 29 for more information on digital audio.)

26 Channel Select Button: Press this button to begin the process of trimming the channel output levels using an external audio source. (For more information on output level trim adjustment, see page 32.)

Front Panel Controls

27 Volume Control: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume. If the AVR 520 is muted, adjusting volume control will automatically release the unit from the silenced condition.

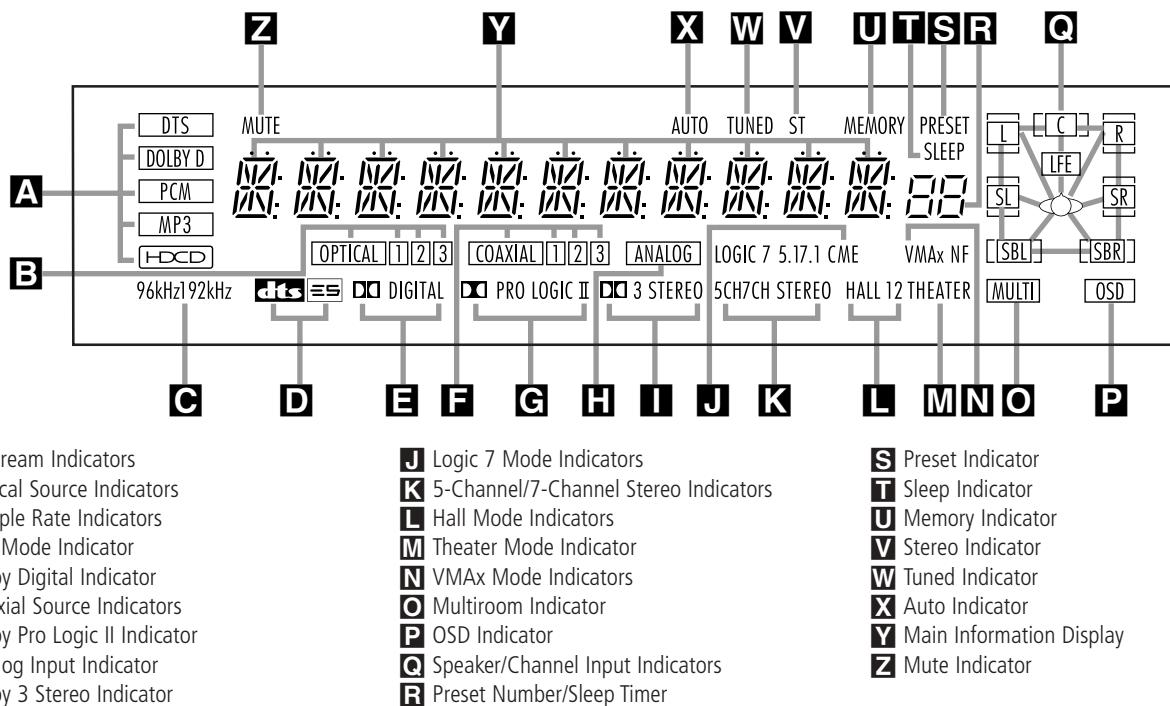
28 Input Indicators: A green LED will light to the left of the input that is currently the input source for the AVR 520.

29 Main Information Display: This display delivers messages and status indications to help you operate the receiver. (See pages 8 & 9 for a complete explanation of the Information Display.)

30 Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it unless an external remote sensor is installed.

31 Surround Mode Indicators: A green LED will light in front of the surround mode that is currently in use.

Front Panel Information Display



A Bitstream Indicators: When the input is a digital source, one of these indicators will light to display the specific type of data signal in use.

B Optical Source Indicators: These indicators light to show when an Optical Digital Input has been selected.

C Sample Rate Indicators: One of these indicators will light when 96kHz or 192kHz source material is in use.

D DTS Mode Indicator: This indicator lights when a DTS-encoded source is playing.

E Dolby Digital Indicator: This indicator lights when a Dolby Digital source is being played.

F Coaxial Source Indicators: These indicators light to show when a Coaxial Digital Input has been selected.

G Dolby Pro Logic II Indicator: This indicator lights when the Dolby Pro Logic II mode has been selected.

NOTE: It is possible to see the Dolby Pro Logic II indicator lit simultaneously with the Dolby Digital indicator, even though the Dolby Digital surround mode has been selected. This is due to the specifications for Dolby Digital processing, which require that the Dolby Pro Logic II mode be applied when a 2-channel Dolby signal is detected. If you desire 5.1-channel audio, check the audio settings in the menus for your DVD disc to make sure that a 5.1-channel Dolby

Digital soundtrack has been selected.

H Analog Input Indicator: This indicator lights when an analog input source has been selected.

I Dolby 3 Stereo Indicator: This indicator lights when the Dolby 3 Stereo mode has been selected.

J Logic 7 Mode Indicators: These indicators light to indicate that one of the Logic 7 modes is in use. Along with the main Logic 7 indicator, either 5.1 or 7.1 will light to indicate the selected speaker configuration. One of the three letters to the far right of this segment will light to show which version of Logic 7 processing is in use: C for the Cinema mode, M for the Music mode and E for the Enhanced mode used with two-channel sources. The Enhanced mode is only available with the 5.1 speaker configuration. (See page 26 for a description of the Logic 7 modes.)

K 5-Channel/7-Channel Stereo Indicators: These indicators light to show if the 5-Channel or 7-Channel Stereo mode has been selected.

L Hall Mode Indicators: These indicators light when one of the Hall modes has been selected.

M Theater Mode Indicator: This indicator lights to show that the Theater mode is in use.

N VMAX Mode Indicators: One of these indicators lights when the VMAX mode is in use. **VMAX F** appears when the Far Field VMAX mode is selected; **VMAX N** appears when the Near Field VMAX mode is selected. (See page 27 for a description of the VMAX modes.)

O Multiroom Indicator: This indicator lights when the multiroom system is active. Note that it will remain lit when the multiroom system is in use even though the main room system is in the Standby mode and all other indicators are dark. (See page 36 for more information on the Multiroom system.)

P OSD Indicator: When the OSD system is in use, this indicator lights to remind you that the other indicators in this display do not function when the On-Screen Display is being used.

Q Speaker/Channel Input Indicators: These indicators are multipurpose, indicating either the speaker type selected for each channel or the incoming data-signal configuration. The left, center, right, right surround and left surround speaker indicators are composed of three boxes, while the subwoofer is a single box. The center box lights when a "Small" speaker is selected, and the two outer boxes light when "Large" speakers are selected. When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been selected for one of those positions. (See page 22 for more information.)

Front Panel Information Display

mation on configuring speakers.) The letters inside each of the center boxes display the active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input. When a digital source is playing, the indicators will light to display the channels being received at the digital input. When the letters flash, the digital input has been interrupted. (See pages 23 & 30 for more information on the Channel Indicators.)

R Preset Number/Sleep Timer: When the tuner is in use, these numbers indicate the specific preset memory location in use. (See page 32 for more information on preset stations.) When the Sleep function is in use, these numbers show how many minutes remain before the unit goes into the Standby mode.

S Preset Indicator: This indicator lights when the tuner is in use to show that the **Preset Number/Sleep Timer R** is showing the station's preset memory number. (See page 32 for more information on tuner presets.)

T Sleep Indicator: This indicator lights when the Sleep function is in use. The numbers in the **Preset Number/Sleep Timer R** indicator will show the minutes remaining before the AVR 520 goes into the Standby mode. (See page 28 for more information on the Sleep function.)

U Memory Indicator: This indicator flashes when entering presets and other information into the tuner's memory.

V Stereo Indicator: This indicator lights when an FM station is being tuned in stereo.

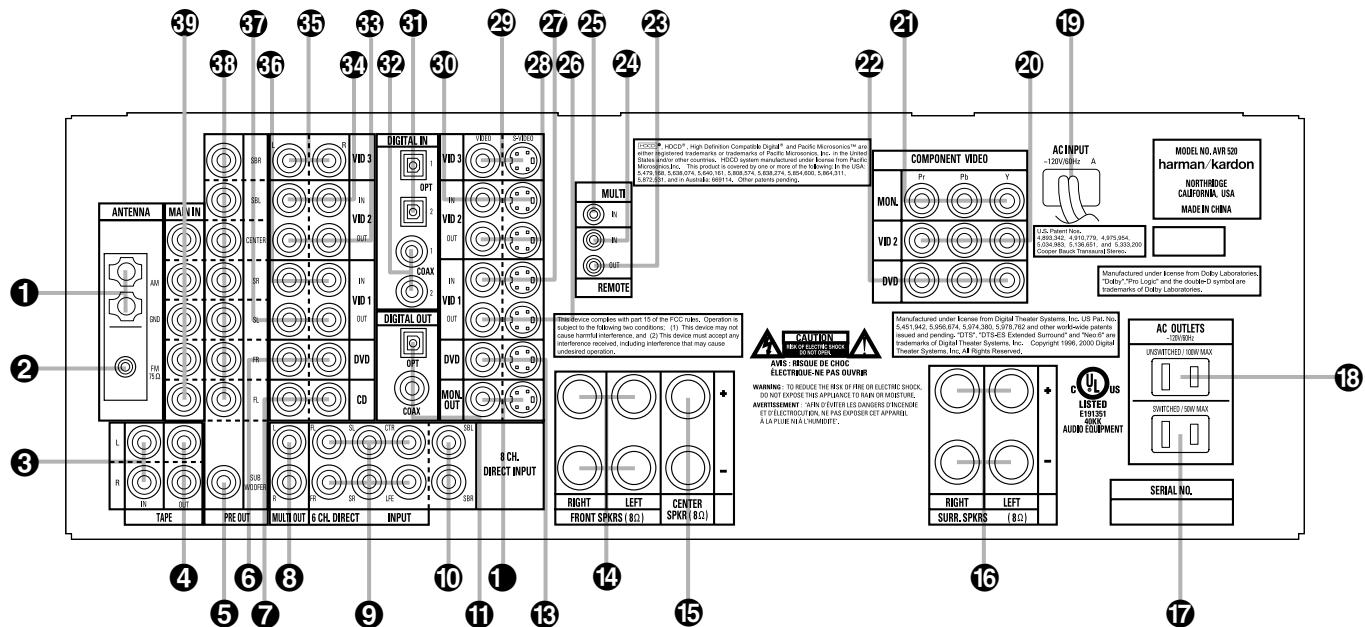
W Tuned Indicator: This indicator lights when a station is being received with sufficient signal strength to provide acceptable listening quality.

X Auto Indicator: This indicator lights when the tuner's Auto mode is in use.

Y Main Information Display: This display shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of the AVR 520's operation.

Z Mute Indicator: This indicator lights to remind you that the AVR 520's output has been silenced by pressing the **Mute Button** . Press the Mute button again to return to the previously selected output level.

Rear Panel Connections



- ① AM Antenna
- ② FM Antenna
- ③ Tape Inputs
- ④ Tape Outputs
- ⑤ Subwoofer Output
- ⑥ DVD Audio Inputs
- ⑦ CD Inputs
- ⑧ Multiroom Outputs
- ⑨ 6-Channel Direct Inputs
- ⑩ 8 Channel Direct Inputs
- ⑪ Digital Audio Outputs
- ⑫ Video Monitor Outputs
- ⑬ DVD Video Inputs

- ⑭ Front Speaker Outputs
- ⑮ Center Speaker Outputs
- ⑯ Surround Speaker Outputs
- ⑰ Switched AC Accessory Outlet
- ⑱ Unswitched AC Accessory Outlet
- ⑲ AC Power Cord
- ⑳ Video 2 Component Video Inputs
- ㉑ Component Video Outputs
- ㉒ DVD Component Video Inputs
- ㉓ Remote IR Output
- ㉔ Remote IR Input
- ㉕ Multiroom IR Input
- ㉖ Video 1 Video Outputs

- ㉗ Video 1 Video Inputs
- ㉘ Video 2 Video Outputs
- ㉙ Video 3 Video Inputs
- ㉚ Video 2 Video Inputs
- ㉛ Optical Digital Inputs
- ㉜ Coaxial Digital Inputs
- ㉝ Video 2 Audio Outputs
- ㉞ Video 2 Audio Inputs
- ㉟ Video 3 Audio Inputs
- ㉞ Video 1 Audio Inputs
- ㉟ Video 1 Audio Outputs
- ㉛ Preamp Outputs
- ㉞ Amplifier Inputs

① AM Antenna: Connect the AM loop antenna supplied with the receiver to these terminals. If an external AM antenna is used, make connections to the **AM** and **GND** terminals in accordance with the instructions supplied with the antenna.

② FM Antenna: Connect the supplied indoor or an optional external FM antenna to this terminal.

③ Tape Inputs: Connect these jacks to the **PLAY/OUT** jacks of an audio recorder.

④ Tape Outputs: Connect these jacks to the **RECORD/INPUT** jacks of an audio recorder.

⑤ Subwoofer Output: Connect this jack to the line-level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input.

⑥ DVD Audio Inputs: Connect these jacks to the analog audio jacks on a DVD or other video source.

⑦ CD Inputs: Connect these jacks to the output of a compact disc player or CD changer.

⑧ Multiroom Outputs: Connect these jacks to an optional audio power amplifier to listen to the source selected by the multiroom system in a remote room.

⑨ 6-Channel Direct Inputs: When an optional, external processor or playback device with 5.1 audio capability is in use, connect the player's output jacks here.

NOTE: To assist in making the correct connections for multichannel input output and speaker connections, all connection jacks and terminals have been color coded in conformance with the latest CEA standards as follows:

Front Left: White
Front Right: Red
Center: Green
Surround Left: Blue

Surround Right: Gray
Surround Back Left: Brown
Surround Back Right: Tan
Subwoofer: Purple
Digital Audio: Orange
Composite Video: Yellow
Component Video "Y": Green
Component Video "Pr": Red
Component Video "Pb": Blue

⑩ 8-Channel Direct Inputs: When an option, external processor or playback device with 6.1 or 7.1 audio capability is in use, connect the Surround Back Left and Surround Back Right channel outputs of the player to these input jacks.

⑪ Digital Audio Outputs: Connect these jacks to the matching digital input connector on a digital recorder such as a CD-R or MiniDisc recorder.

Rear Panel Connections

① Video Monitor Outputs: Connect this jack to the composite or S-Video input of a TV monitor or video projector to view the on-screen menus and the output of any standard video source selected by the receiver's video switcher.

③ DVD Video Inputs: Connect these jacks to the composite or S-Video output jacks on a DVD or other video source.

④ Front Speaker Outputs: Connect these outputs to the matching + or – terminals on your left and right speakers. When making speaker connections always make certain to maintain correct polarity by connecting the red (+) terminals on the AVR 520 to the red (+) terminals on the speakers and the black (–) terminals on the AVR 520 to the black (–) terminals on the speakers. See page 16 for more information on speaker polarity.

⑤ Center Speaker Outputs: Connect these outputs to the matching + and – terminals on your center channel speaker. In conformance with the new CEA color code specification, the Green Terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on speakers with the older color coding. Connect the black (–) terminal on the AVR to the black negative (–) terminal on your speaker. (See page 16 for more information on speaker polarity.)

⑥ Surround Speaker Outputs: Connect these outputs to the matching + and – terminals on your surround channel speakers. In conformance with the new CEA color code specification, the Blue terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on the Surround Left speaker with older color coding, while the Gray terminal should be connected to the red (+) terminal on the Surround Right speaker with the older color coding. Connect the black (–) terminal on the AVR to the matching black negative (–) terminals for each surround speaker. (See page 17 for more information on speaker polarity.)

⑦ Switched AC Accessory Outlet: This outlet may be used to power any device you wish to have turned on when the AVR 520 is turned on with the **System Power Control Button** ②.

⑧ Unswitched AC Accessory Outlet: This outlet may be used to power any AC device. The power will remain on at this outlet regardless of whether the AVR 520 is on or off.

NOTE: The total power consumption of all devices connected to the accessory outlets should not exceed 100 watts.

⑯ AC Power Cord: Connect the AC plug to an unswitched AC wall output.

⑰ Video 2 Component Video Inputs: Connect the Y/Pr/Pb component video outputs of an HDTV Set-top convertor, satellite receiver, or other video source device with component video outputs to these jacks.

㉑ Component Video Outputs: Connect these outputs to the component video inputs of a video projector or monitor. When a source connected to one of the two **Component Video Inputs** ⑳ is selected the signal will be sent to these jacks.

㉒ DVD Component Video Inputs: Connect the Y/Pr/Pb component video outputs of a DVD player to these jacks.

㉓ Remote IR Output: This connection permits the IR sensor in the receiver to serve other remote controlled devices. Connect this jack to the "IR IN" jack on Harman Kardon (or other compatible) equipment.

㉔ Remote IR Input: If the AVR 520's front-panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack.

㉕ Multiroom IR Input: Connect the output of an IR sensor in a remote room to this jack to operate the AVR 520's multiroom control system.

㉖ Video 1 Video Outputs: Connect these jacks to the RECORD/INPUT composite or S-Video jack on a VCR.

㉗ Video 1 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a VCR or other video source.

㉘ Video 2 Video Outputs: Connect these jacks to the RECORD/INPUT composite or S-Video jacks on a VCR.

㉙ Video 3 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a VCR or other video source.

㉚ Video 2 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a VCR or other video source.

㉛ Optical Digital Inputs: Connect the optical digital output from a DVD player, HDTV receiver, the S/P-DIF output of a compatible computer sound card playing MP3 files or streams, LD player or CD player to these jacks. The signal may be either a Dolby Digital signal, a DTS signal or a standard PCM digital source.

㉜ Coaxial Digital Inputs: Connect the coax digital output from a DVD player, HDTV receiver, the S/P-DIF output of a compatible computer sound card playing MP3 files or streams, LD player or CD player to these jacks. The signal may be either a Dolby Digital signal, DTS signal or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks.

㉝ Video 2 Audio Outputs: Connect these jacks to the RECORD/INPUT audio jacks on a VCR or other video source.

㉞ Video 2 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a VCR or other video source.

㉟ Video 3 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a VCR or other video source.

㉟ Video 1 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a VCR or other video source.

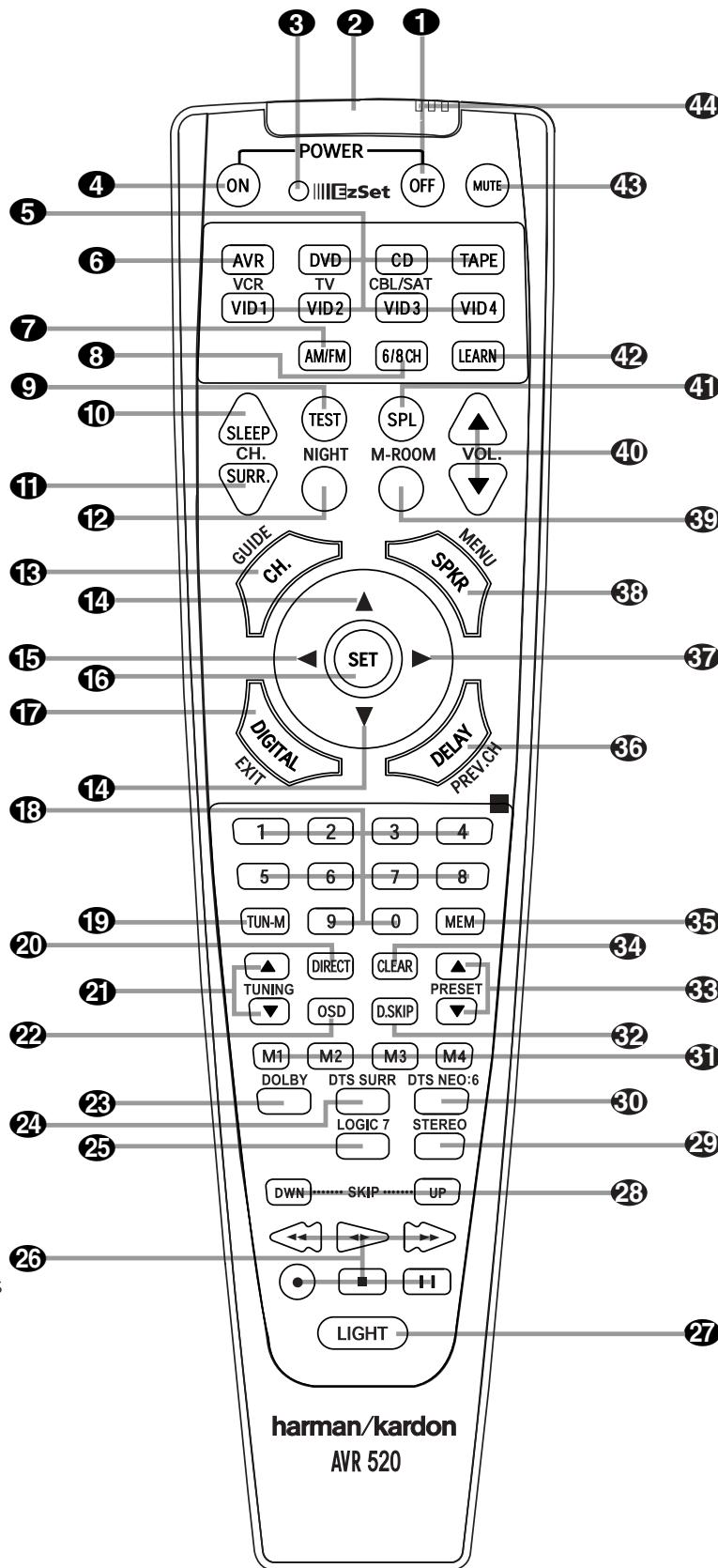
㉟ Video 1 Audio Outputs: Connect these jacks to the RECORD/INPUT audio jacks on a VCR.

㉛ Preamp Outputs: When the jumper pins that link the **Amplifier Inputs** ㉜ with these outputs are removed, these jacks may be connected to an external power amplifier.

㉜ Amplifier Inputs: When the jumper pins that link the **Preamp Outputs** ㉛ with these inputs are removed, these jacks may be used to connect an external source or the AVR 520's multiroom system to the internal amplifiers.

Main Remote Control Functions

- 1 Power Off Button
- 2 IR Transmitter Window
- 3 Program/SPL Indicator
- 4 Power On Button
- 5 Input Selectors
- 6 AVR Selector
- 7 AM/FM Tuner Select
- 8 6-Channel/8-Channel Direct Input
- 9 Test Button
- 10 Sleep Button
- 11 Surround Mode Selector
- 12 Night Mode
- 13 Channel Select Button
- 14 ▲/▼ Buttons
- 15 ◀ Button
- 16 Set Button
- 17 Digital Select
- 18 Numeric Keys
- 19 Tuner Mode
- 20 Direct Button
- 21 Tuning Up/Down
- 22 OSD Button
- 23 Dolby Mode Select Button
- 24 DTS Digital Mode Selector
- 25 Logic 7 Mode Select Button
- 26 Transport Controls
- 27 Light Button
- 28 Skip Up/Down Button
- 29 Stereo Mode Select Button
- 30 DTS Neo:6 Mode Select
- 31 Macro Buttons
- 32 Disc Skip Button
- 33 Preset Up/Down
- 34 Clear Button
- 35 Memory Button
- 36 Delay/Prev. Ch.
- 37 ► Button
- 38 Speaker Select
- 39 Multiroom
- 40 Volume Up/Down
- 41 SPL Indicator Select
- 42 Learn Button
- 43 Mute
- 44 EzSet Sensor Microphone



NOTE: The function names shown here are each button's feature when used with the AVR 520. Most buttons have additional functions when used with other devices. See pages 42–43 for a list of these functions.

Main Remote Control Functions

IMPORTANT NOTE: The AVR 520's remote may be programmed to control up to eight devices, including the AVR 520. Before using the remote, it is important to remember to press the **Input Selector Button** ⑤ that corresponds to the unit you wish to operate. In addition, the AVR 520's remote is shipped from the factory to operate the AVR 520 and most Harman Kardon CD or DVD players and cassette decks. The remote is also capable of operating a wide variety of other products using the control codes that are part of the remote. Before using the remote with other products, follow the instructions on pages 37–41 to program the proper codes for the products in your system.

It is also important to remember that many of the buttons on the remote take on different functions, depending on the product selected using the Device Control Selectors. The descriptions shown here primarily detail the functions of the remote when it is used to operate the AVR 520. (See page 39 for information about alternate functions for the remote's buttons.)

① Power Off Button: Press this button to place the AVR 520 or a selected device in the Standby mode. Note that this will turn off the main room functions, but if the Multiroom system is activated, it will continue to function.

② IR Transmitter Window: Point this window towards the AVR 520 when pressing buttons on the remote to make certain that infrared commands are properly received.

③ Program/SPL Indicator: This three-color indicator is used to guide you through the process of programming the remote or learning commands from a remote into the AVR 520's remote code memory and it is also used as a level indicator when using the remote's EzSet capabilities. (See page 24 for more information on setting output levels, and see page 37 for information on programming the remote.)

④ Power On Button: Press this button to turn on the power to a device selected by pressing one of the **Input Selectors** ⑤.

⑤ Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the AVR 520 is not turned on, this will power up the unit. Next, it will select the source shown on the button as the input to the AVR 520. Finally, it will change the remote control so that it controls the device selected. After pressing one of these buttons you must press the **AVR Selector Button** ⑥ again to operate the AVR 520's functions with the remote.

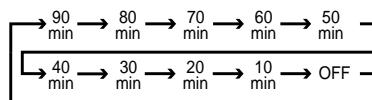
⑥ AVR Selector: Pressing this button will switch the remote so that it will operate the AVR 520's functions. If the AVR 520 is in the Standby mode, it will also turn the AVR 520 on.

⑦ AM/FM Tuner Select: Press this button to select the AVR 520's tuner as the listening choice. Pressing this button when the tuner is already in use will select between the AM and FM bands.

⑧ 6-Channel/8 Channel Direct Input: Press this button to select the device connected to the **6-Channel Direct Inputs** ⑨ or the **8-Channel Direct Inputs** ⑨⑩. (See page 33 for more information.)

⑨ Test Button: Press this button to begin the sequence used to calibrate the AVR 520's output levels. (See page 24 for more information on calibrating the AVR 520.)

⑩ Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR 520 will automatically go into the Standby mode. Each press of the button changes the time until turn-off in the following order:



Note that this button is also used to change channels on your TV when the TV is selected.

When the AVR 520 remote is being programmed with the codes to operate another device, this button is also used in the "Auto Search" process. (See page 37 for more information on programming the remote.)

⑪ Surround Mode Selector: Press this button to begin the process of changing the surround mode. After the button has been pressed, use the **▲/▼ Buttons** ⑭ to select the desired surround mode. (See page 28 for more information.) Note that this button is also used to tune channels when the TV is selected using the device **Input Selector** ⑤. When the AVR 520 remote is being programmed with the codes of another device, this button is also used in the "Auto Search" process. (See page 37 for more information on programming the remote.)

⑫ Night Mode: Press this button to activate the Night mode. This mode is available in specially encoded digital sources, and it preserves

dialog (center channel) intelligibility at low volume levels.

⑬ Channel Select Button: This button is used to start the process of setting the AVR 520's output levels to an external source. Once this button is pressed, use the **▲/▼ Buttons** ⑭ to select the channel being adjusted, then press the **Set Button** ⑯, followed by the **▲/▼ Buttons** ⑭ again, to change the level setting. (See page 32 for more information.)

⑭ ▲/▼ Buttons: These multipurpose buttons are used to change or scroll through items in the on-screen menus, make configuration settings such as digital inputs or delay timing, or to select surround modes. When changing a setting, first press the button for the function or setting to be changed (e.g., press the **Surround Mode Selector** ⑪ to select a soundfield mode or the **Digital Select Button** ⑯ to change a digital input) and then press one of these buttons to scroll through the list of options or to increase or decrease a setting. The sections in this manual describing the individual features and functions contain specific information on using these buttons for each application.

⑮ ◀ Button: This button is used to change the menu selection or setting during some of the setup procedures for the AVR 520.

⑯ Set Button: This button is used to enter settings into the AVR 520's memory. It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment.

⑰ Digital Select: Press this button to assign one of the digital inputs ⑳ ⑳ ⑳ ⑳ to a source. (See page 29 for more information on using digital inputs.)

⑱ Numeric Keys: These buttons serve as a ten-button numeric keypad to enter tuner preset positions. They are also used to select channel numbers when TV, Cable or SAT has been selected on the remote, or to select track numbers on a CD, DVD or LD player, depending on how the remote has been programmed.

⑲ Tuner Mode: Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that the **AUTO Indicator** X goes out, pressing the **Tuning Buttons** ⑳ ⑳ E will move the frequency up or down in single-step increments. When the FM band is in use, pressing this button when a station's signal is

Main Remote Control Functions

weak will change to monaural reception. (See page 31 for more information.)

20 Direct Button: Press this button when the tuner is in use to start the sequence for direct entry of a station's frequency. After pressing the button, simply press the proper **Numeric Keys** **18** to select a station. (See page 32 for more information on the tuner.)

21 Tuning Up/Down: When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the **Tuner Mode Button** **19** **16** has been pressed so that the **AUTO Indicator** **X** is illuminated, pressing and holding either of the buttons for three seconds will cause the tuner to seek the next station with acceptable signal strength for quality reception. When the **AUTO Indicator** **X** is NOT illuminated, pressing these buttons will tune stations in single-step increments. (See page 31 for more information.)

22 OSD Button: Press this button to activate the On-Screen Display (OSD) system used to set up or adjust the AVR 520's parameters.

23 Dolby Mode Selector: This button is used to select from among the available Dolby Surround processing modes. Each press of this button will select one of the Dolby Pro Logic II modes or Dolby 3 Stereo. When a Dolby Digital encoded source is in use, the Dolby Digital mode may also be selected. (See page 26 for the available Dolby surround mode options.)

24 DTS Digital Mode Selector: When a DTS-encoded digital source is selected, each press of this button will scroll through the available DTS modes. The specific choice of modes will vary according to whether or not the source material contains DTS-ES 6.1 Discrete encoding. When a DTS source is not in use, this button has no function. (See page 40 for the available DTS Digital options.)

25 Logic 7 Selector: Press this button to select from among the available Logic 7 surround modes. (See page 26 for the available Logic 7 options.)

26 Transport Controls: These buttons do not have any functions for the AVR 520, but they may be programmed for the forward/reverse play operation of a wide variety of CD or DVD players, and audio or video cassette recorders. (See page 40 for more information.)

27 Light Button: Press this button to activate the remote's backlight for ease of use in darkened rooms.

28 Skip Up/Down Buttons: These buttons do not have a direct function with the AVR 520, but when used with a compatibly programmed CD or DVD changer they will change the disc currently being played in the changer.

31 Macro Buttons: Press these buttons to store or recall a "Macro", which is a preprogrammed sequence of commands stored in the remote. (See page 38 for more information on storing and recalling macros.)

32 Disc Skip Buttons: This button has no direct function for the AVR 520 but is most often used to change to the next disc in a CD or DVD player when the remote is programmed for that type of device. (See page 37 for more information on using the remote with products other than the AVR 520.)

33 Preset Up/Down: When the tuner is in use, press these buttons to scroll through the stations programmed into the AVR 520's memory. When some source devices, such as CD players, VCRs and cassette decks, are selected using the device **Input Selectors** **5**, these buttons may function as Chapter Step or Track Advance.

34 Clear Button: Press this button to clear incorrect entries when using the remote to directly enter a radio station's frequency.

35 Memory Button: Press this button to enter a radio station into the AVR 520's preset memory. Once the **MEMORY Indicator** **U** flashes, you have five seconds to enter a preset memory location using the **Numeric Keys** **18**. (See page 31 for more information.)

36 Delay/Prev Ch.: Press this button to begin the process for setting the delay times used by the AVR 520 when processing surround sound. After pressing this button, the delay times are entered by pressing the **Set Button** **16** and then using the **▲/▼ Buttons** **14** to change the setting. Press the **Set Button** **16** again to complete the process. (See page 23 for more information.)

37 ► Button: Press this button to change a setting or selection when configuring many of the AVR 520's settings.

38 Speaker Select: Press this button to begin the process of configuring the AVR 520's bass management system for use with the type of speakers used in your system. Once the button has been pressed, use the

▲/▼ Buttons **14** to select the channel you wish to set up. Press the **Set Button** **16** and then select another channel to configure. When all adjustments have been completed, press the **Set Button** **16** twice to exit the settings and return to normal operation. (See page 22 for more information.)

39 Multiroom: Press this button to activate the multiroom system or to begin the process of changing the input or volume level for the second zone. (See page 36 for more information on the Multiroom system.)

40 Volume Up/Down: Press these buttons to raise or lower the system volume.

41 SPL Indicator Select: This button activates the AVR 520's EzSet function to quickly and accurately calibrate the AVR 520's output levels. Press and hold the button for three seconds and then release it. Note that the test tone will begin circulating, and the **Program/SPL Indicator** **3** will change colors. During this sequence, EzSet will automatically adjust the output levels for all channels until they are equal, as shown by the **Program/SPL Indicator** lighting green for each channel. Press this button again when the adjustment is complete to turn off the test tone. (See page 24 for more information on EzSet.)

42 Learn Button: Press this button to begin the process of "learning" the codes from another product's remote into the AVR 520's remote. (See page 37 for more information on using the remote's learning function.)

43 Mute: Press this button to momentarily silence the AVR 520 or TV set being controlled, depending on which device has been selected. When the AVR 520 remote is being programmed to operate another device, this button is pressed with the **Input Selector Button** **5** to begin the programming process. (See page 37 for more information on programming the remote.)

44 EzSet Sensor Microphone: The sensor microphone for the EzSet microphone is behind these slots. When using the remote to calibrate speaker output levels using EzSet, be sure that you do not hold the remote in a way that covers these slots. (See page 24 for more information on using EzSet.)

Troubleshooting Guide

SYMPTOM	CAUSE	SOLUTION
Unit does not function when Main Power Switch is pushed	• No AC Power	• Make certain AC power cord is plugged into a live outlet • Check to see whether outlet is switch-controlled
Display lights, but no sound or picture	• Intermittent input connections • Mute is on • Volume control is down	• Make certain that all input and speaker connections are secure • Press Mute button • Turn up volume control
Unit turns on, but front panel display does not light up	• Display brightness is turned off	• Follow the instructions in the Display Brightness section on page 35 so that the display is set to VFD FULL
No sound from any speaker; light around power switch is red	• Amplifier is in protection mode due to possible short • Amplifier is in protection mode due to internal problems	• Check speaker wire connections for shorts at receiver and speaker ends • Contact your local Harman Kardon service depot
No sound from surround or center speakers	• Incorrect surround mode • Input is monaural • Incorrect configuration • Stereo or Mono program material	• Select a mode other than Stereo • There is no surround information from mono sources • Check speaker mode configuration • The surround decoder may not create center- or rear-channel information from nonencoded programs
Unit does not respond to remote commands	• Weak batteries in remote • Wrong device selected • Remote sensor is obscured	• Change remote batteries • Press the AVR selector • Make certain front panel sensor is visible to remote or connect remote sensor
Intermittent buzzing in tuner	• Local interference	• Move unit or antenna away from computers, fluorescent lights, motors or other electrical appliances
Letters flash in the channel indicator display and digital audio stops	• Digital audio feed paused	• Resume play for DVD • Check that Digital Input is selected

Processor Reset

In the rare case where the unit's operation or the displays seem abnormal, the cause may involve the erratic operation of the system's memory or microprocessor.

To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem.

To clear the AVR 520's entire system memory including tuner presets, output level settings,

delay times and speaker configuration data, first put the unit in Standby by pressing the **System Power Control** button **2**. Next, press and hold the **Tone Mode** **8** and the **FM Mode Selector** **16** buttons for three seconds.

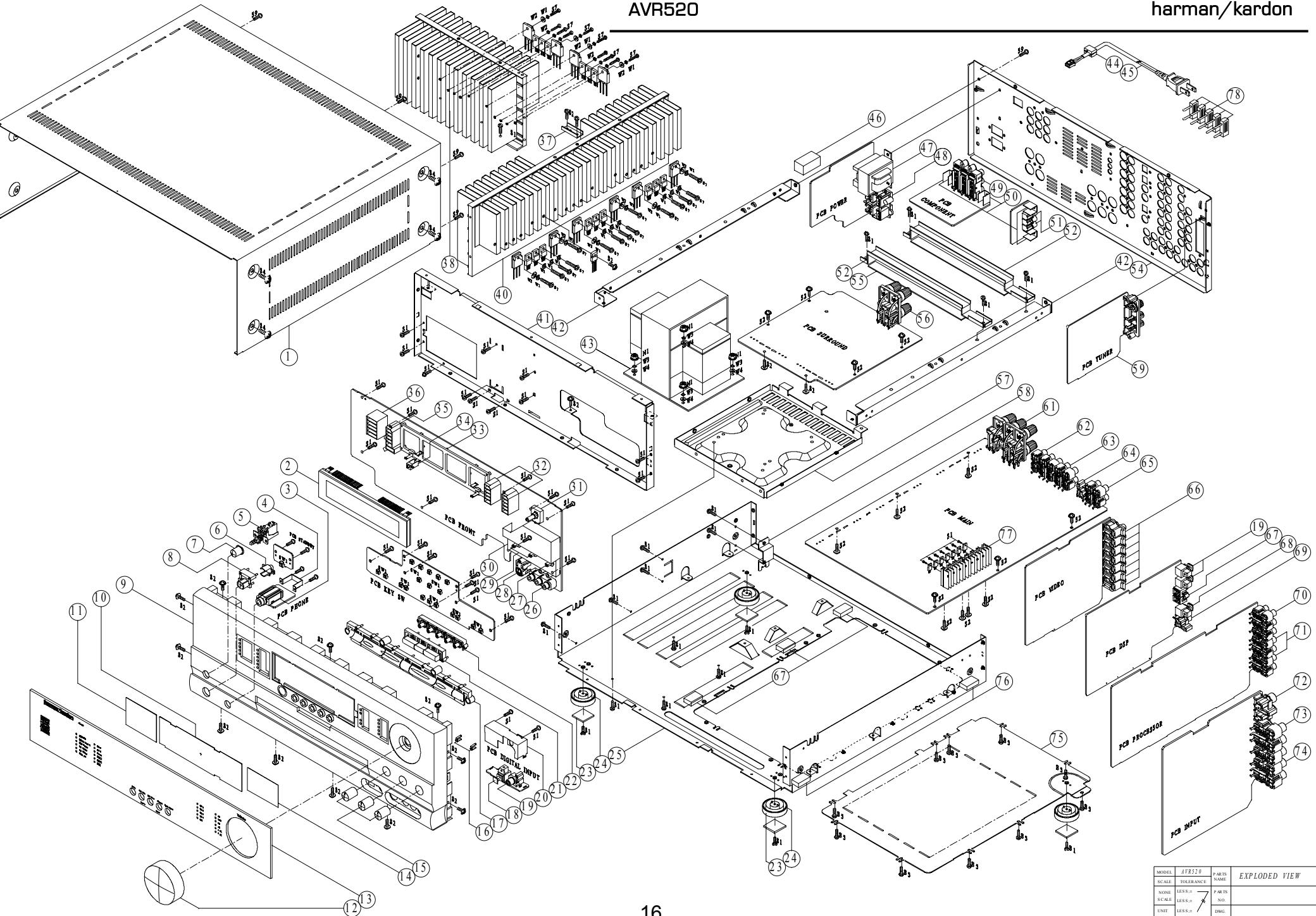
The unit will turn on automatically and display the **RESET** message in the **Main Information Display** **Y**. Note that once you have cleared the memory in this manner, it is necessary to reestablish all system configuration settings and tuner presets.

NOTE: Resetting the processor will erase any configuration settings you have made for

speakers, output levels, surround modes, digital input assignments as well as the tuner presets. After a reset the unit will be returned to the factory presets, and all settings for these items must be reentered.

If the system is still operating incorrectly, there may have been an electronic discharge or severe AC line interference that has corrupted the memory or microprocessor.

If these steps do not solve the problem, consult an authorized Harman Kardon service depot.



MODEL	AVR520	PARTS NAME	EXPLODED VIEW
SCALE	1:LESS:1	PARTS	
NONC	LESS:1	N.O.	
SCALE	1:LESS:1	DRW:	
UNIT	LESS:1	NO.	
= / =	LESS:1		

AVR 520 EXPLODED VIEW PART LIST

NO.	To com #	Q'TY	SName
1	55178050XX	1	AC PUN COVER TOP
2	55182450NR	1	DISPLAY VFD HNA 16LL18
3	55088400XX	1	CONN- PHJAC 6.35 ST HORZ EST- J6313 BK 0 0
4	55124350XX	1	AC PUN BRACKET HEADPHONE
5	55178000NR	1	SW PUSH POWER SWITCH 5.0A 250.0V 100MIOOHM 1T 2P
6	55178020XX	1	AC MLD BUTTON INDICATOR STAND- BY
7	55177810XX	1	AC DEC BUTTON POWER
8	55177820XX	1	AC DEC BUTTON STANDBY
9	55177720XX	1	AC DEC CABINET PANEL FRONT 510
10	55177800XX	1	AC DEC CRYSTAL FILTER DISPLAY
11	55191560XX	1	AC NON- METAL DIFFUSER 0.2T 62.5*41 WH
12	55177740XX	1	AC DEC KNOB MAIN HIPS 94H
13	55177910XX	1	AC DEC CRYSTAL DISPLAY AVR520
14	55177990XX	1	AC NON- METAL DIFFUSER 0.2T 59.6*41 WH
15	55177750XX	3	AC DEC KNOB TONE
16	55178030XX	2	AC MLD BUTTON INDICATOR VIDEO 4
17	55177790XX	1	AC DEC BUTTON 7 KEY
18	55125440XX	3	D- LEM TOTXI178B RD RND CL
19	55175240XX	1	CON PHONO SCKT RCA 1P W/ GND JE010003MG
20	55182550XX	1	AC PUN SHIELD DIGITAL ET
21	55177760XX	1	AC DEC BUTTON 3 KEY
22	55177780XX	1	AC DEC BUTTON 5 KEY
23	55174760XX	4	AC FOOT RUBBER ROUND 3.0MM 25.0MM JIS 60 Y DIA
24	55178110XX	4	AC FOOT ASSY ROUND 12.5MM 50MM
25	5517807BXX	1	AC CPL CABINET CHASSIS MAIN SECC 1.0T
26	55113740XX	1	CON PHONO SCKT RCA- 307 3 PINS
27	5517991000	2	PR- ROT 100K0 OHM NON- LINEAR RK14K12400BQ 0 0
28	55113960XX	1	CON DIN SCKT SOCKET CONNECTOR SVHS EST- S408J
29	5517992000	1	PR- ROT 100K0 OHM NON- LINEAR RK14K12400BR 0 0
30	55177570XX	1	AC PUN SHIELD FENCE TONE
31	55134900NR	1	SWIROT EC16B24204A5 5V 500U0A 10T 3P 0 0
32	55178940XX	2	AC PLASTIC MOLD REFRATOR E WH
33	55178440XX	1	AC MLD HOLDER FL- GUIDE
34	55155930XX	1	IC- REMOTE RPM6938- RSIP- A3 RECEIVER 38KHZ
35	55177960XX	1	AC PLASTIC MOLD REFRATOR C WH
36	55178930XX	1	AC PLASTIC MOLD REFRATOR F WH
37	55255710XX	1	AC PUN BRACKET HEATSINK SECC1.2T
38	55191790XX	1	AC METAL HEATSINK(SURR)
39	BLANK		
40	55191780XX	1	AC METAL HEATSINK(MAIN)
41	55178250XX	1	AC CPL CABINET CHASSIS FRONT SECC 1.0T
42	55178170XX	2	AC PUN BRACKET FRAME- GUIDE SECC T1.0
43	55181270NR	1	TF- LAM POWER- TRANSFORMER 120V
44	55125180XX	1	AC MLD CLAMP AC CORD
45	55178310XX	1	WIRE- MCRDM 0.82MM2 1830MM BK CORD POWER UL SPT2
46	55178400XX	1	AC BUFFER CUSHION (A) EVA
47	55175760NR	1	TF- LAM 110V STANDBY 120V
48	55206550NR	1	CONN- SPE AC OUTLET 2P 110V FE 12.75MM 2 BK 0 0
49	55176360XX	1	CON PHONO SCKT RCA 9P W/ GND CAP JK090122LN
50	55176420XX	4	AC PUN BRACKET BKT GROUND ET 0.5T
51	55176390XX	3	CON PHONO SCKT STEREO JACK JW350S
52	55178230XX	2	AC PUN BRACKET PCB

53	BLANK		
54	55177890XX	1	AC CPL REAR PANEL AVR520
55	55178300XX	3	AC BUFFER CUSHION- BRK'T EVA
56	55191390XX	1	CONN- SPE TERMINAL SPKR 4P SH0410376P
57	5517809BXX	1	AC PUN COVER TRANS BOTTOM T1.0
58	55262430XX	1	AC PUN BRACKET PROTECT
59	55177300XX	1	AC MSA ASY KST- MI114MW1- 60 TU MODULE
60	BLANK		
61	55191400XX	1	CONN- SPE TERMINAL SPKR 6P
62	55191420XX	1	CON PHONO SCKT RCA 4P JW- 4104RSA
63	55191480XX	1	CON PHONO SCKT RCA 6P JW- 4105RSB
64	55191370XX	1	CON PHONO SCKT RCA 1P JACK JE010003XN
65	55176330XX	1	CON PHONO SCKT RCA 4P JW4104RS GND
66	55149520XX	7	CON DIN SCKT MIX SOCKET RCA- 118JP1S
67	55191600XX	1	CON PHONO SCKT RCA 2P W/ GND CAP JW- 1502SN OO
68	55125440NR	1	D- LEM TOTXI178B RD RND CL
69	55175950XX	1	CON PHONO SCKT RCA 1P W/ GND JE010003MN
70	55176350XX	1	CON PHONO SCKT RCA 6P JW- 4105RSS W/ GND CAP
71	55176330XX	1	CON PHONO SCKT RCA 4P JW4104RS GND
72	55207740XX	1	CON PHONO SCKT RCA 2P JE021163TN BRN/ TAN
73	55191410XX	1	CON PHONO SCKT RCA 4P JW- 4104RSB
74	55191800XX	1	CON PHONO SCKT RCA 6P JW4105RSG W/ GND CAP
75	55178080XX	1	AC PUN COVER BOTTOM SECC T1.0
76	55125220XX	11	AC BUFFER PCB
77	55176400XX	1	AC METAL HEATSINK REG 118*20*50H
78	55182890NR	5	CONN- SPE JUMPER PLUG 2PIN
79	BLANK		
80	BLANK		

XX	55178960XX	1	AC SPRING PLATE SPRING GND CS212 0.2T
XX	55148840NR	1	FCORE FERRIT MAGNET RING34 34.5X21X12 K- 150
XX			

S1	55127070XX	64	SCREW- ST 3MM 10MM
S2	55127120XX	34	SCREW- ST 3MM 8MM
S3	55309240XX	4	SCREW- SPEC 4MM 10MM
S4	55127090XX	8	SCREW- ST 4MM 8MM
S5	55127280XX	10	SCREW- ST 3MM 6MM
S6	55164800XX	1	SCREW 3MM 8MM
S7	55178320XX	25	SCREW- ST 3MM 12MM
S9	55135460XX	59	SCREW- SPEC 3MM 10MM
N1	55309350XX	4	NUT- HEXAGON 4.0MM 5.0MM CIRCULAR EXTERNAL 53

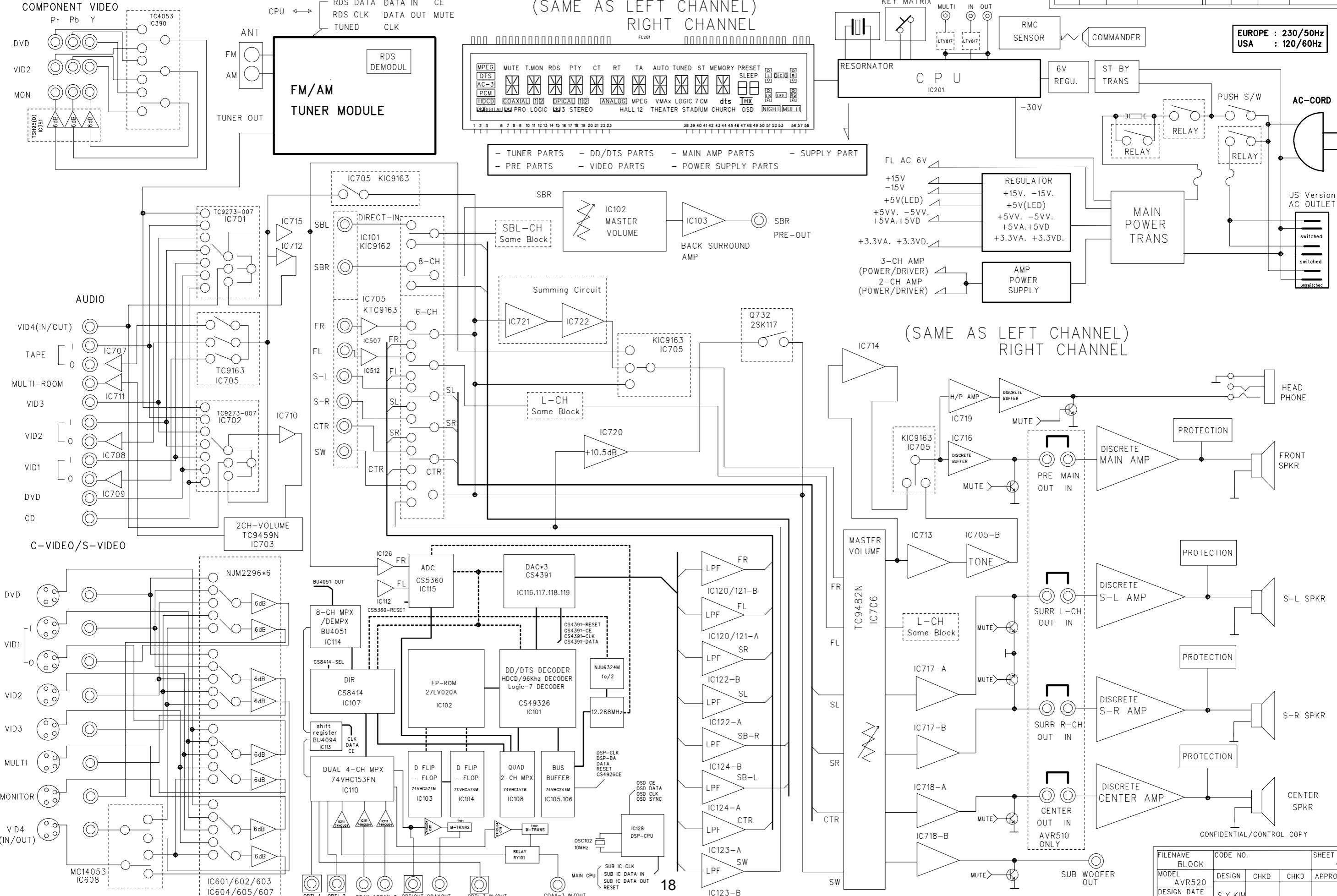
W1	55127300XX	15	WASHER- SPRING 3
W2	55127310XX	10	WASHER- FLAT 3
W3	55168690XX	4	WASHER- SPRING 4
W4	55131730XX	4	WASHER- FLAT 4

	20932870XX	2	AC PRI LABEL QC CHECK CRKD1217(20X13MM)
	55149150XX	2	AC PRI LABEL RISK
	55174780XX	1	AC PRI LABEL DATE
	552178430XX	2	AC PRI LABEL SERIAL AVR520
	55178380XX	2	AC PRI LABEL BARCODE AVR520
	55178620XX	1	AC PRI LABEL "PLEASE REMOVE..."

BLOCK DIAGRAM

MODEL: AVR320/520/4500/5500

NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS



harman/kardon

Service Bulletin

Service bulletin # H/K2003-07 Sept. 2003

Warranty labor rate: MINOR repair

To: All harman/kardon Service Centers

Model: AVR110/210/310/510, AVR120/220; AVR320/520

Subject: Various Complaints

For Complaints:

NO AUDIO

NOISE

INTERMITTENT NOISE

INTERMITTENT AUDIO

Possible Solution:

Voltages may be too high on DSP Buffer IC or DSP IC

All modifications are done to the DSP board.

AVR110/210/310/510

AVR120/220

Remove BD5 and replace with two 1N4148 diodes in series.

Remove R43 and R90 (3.3Ω) and replace each with a 1N4148 diode.

(See diagram Page 2 for location and polarity)

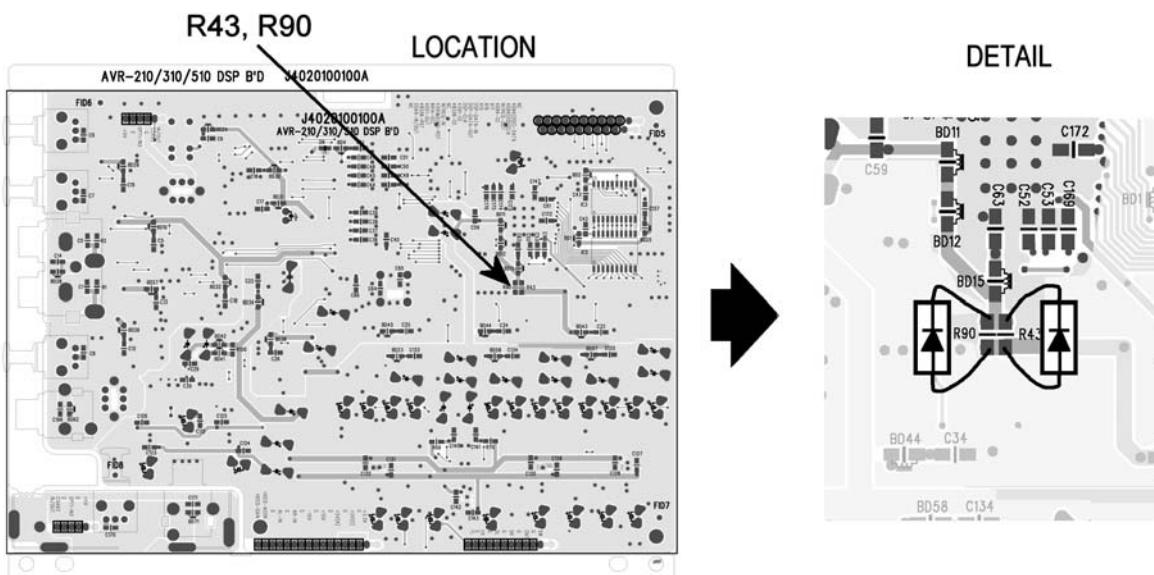
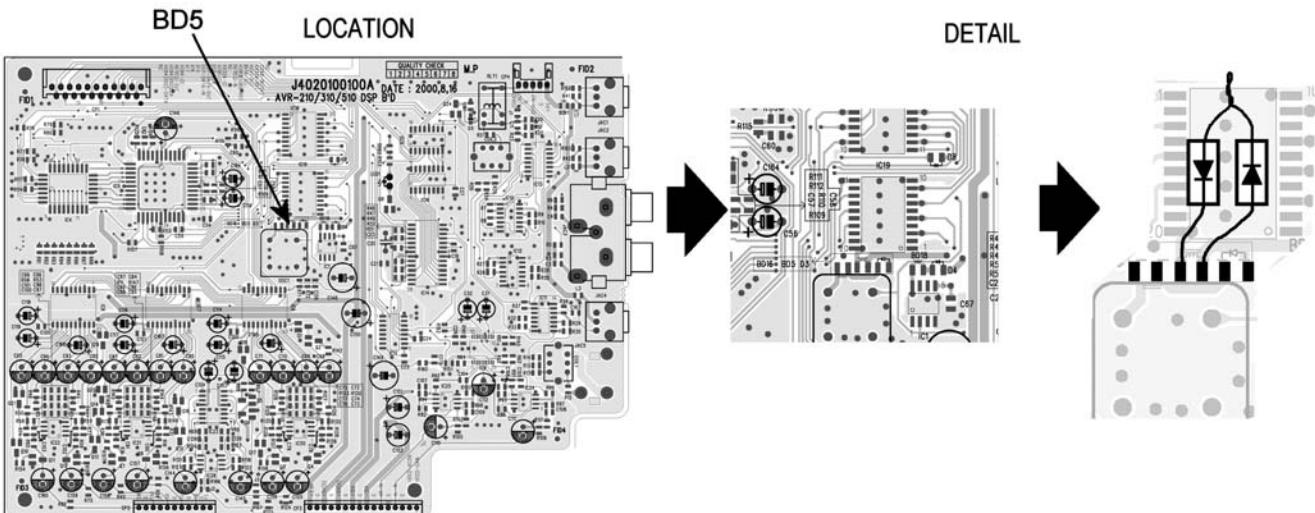
AVR320/520

Remove BD25 and replace with two 1N4148 diodes in series.

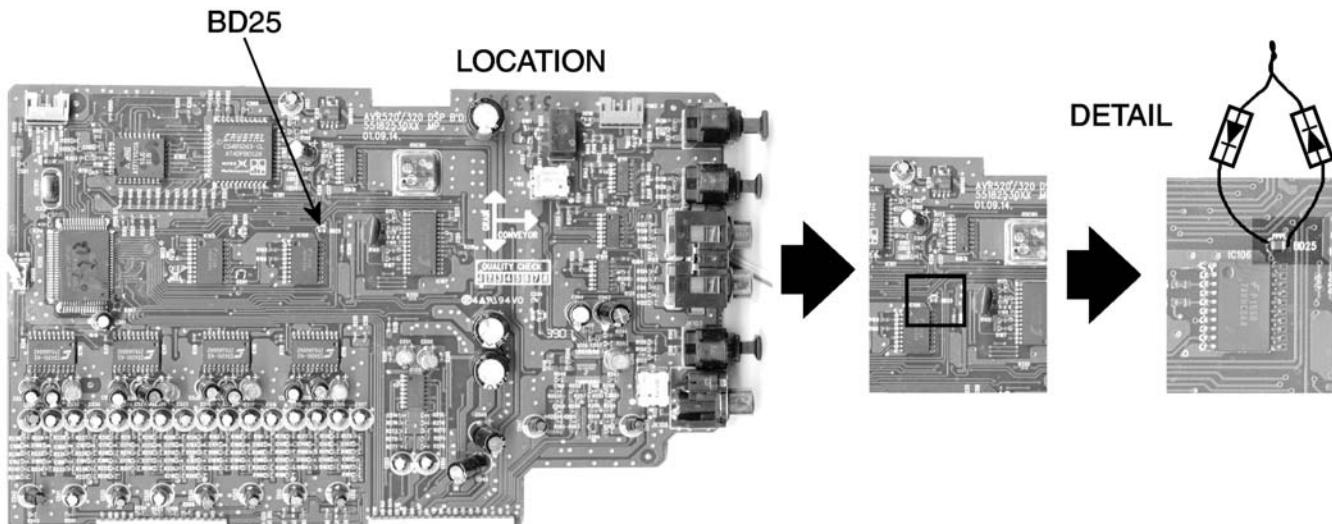
(See diagram Page 2 for location and polarity)

In all cases the 1N4148 diode(s) you need to add should be normal 2-lead axial components, like h/k part# 13-0482 or equivalent (not SMD devices).

MODELS: AVR110/210/310/510
AVR120/220



MODELS: AVR320/520



harman/kardon**TECH TIPS**

Troubleshooting tips and solutions to common service problems**For models: AVR110/120/210/220/310/320/510/520/7000****TIP# HKTT2003-01**

Subject: Backup Memory on AVR series receivers

In the event of a complaint of “the receiver is losing its memory (any programmed system settings) when the unit is turned off, or after the unit is unplugged (briefly*)”:

Check and replace:

C216 (all models above except AVR7000)

C730 (AVR7000 only)

Location: On the front PCB, 0.047 Farad 5.5v capacitor, h/k part# 55134360.

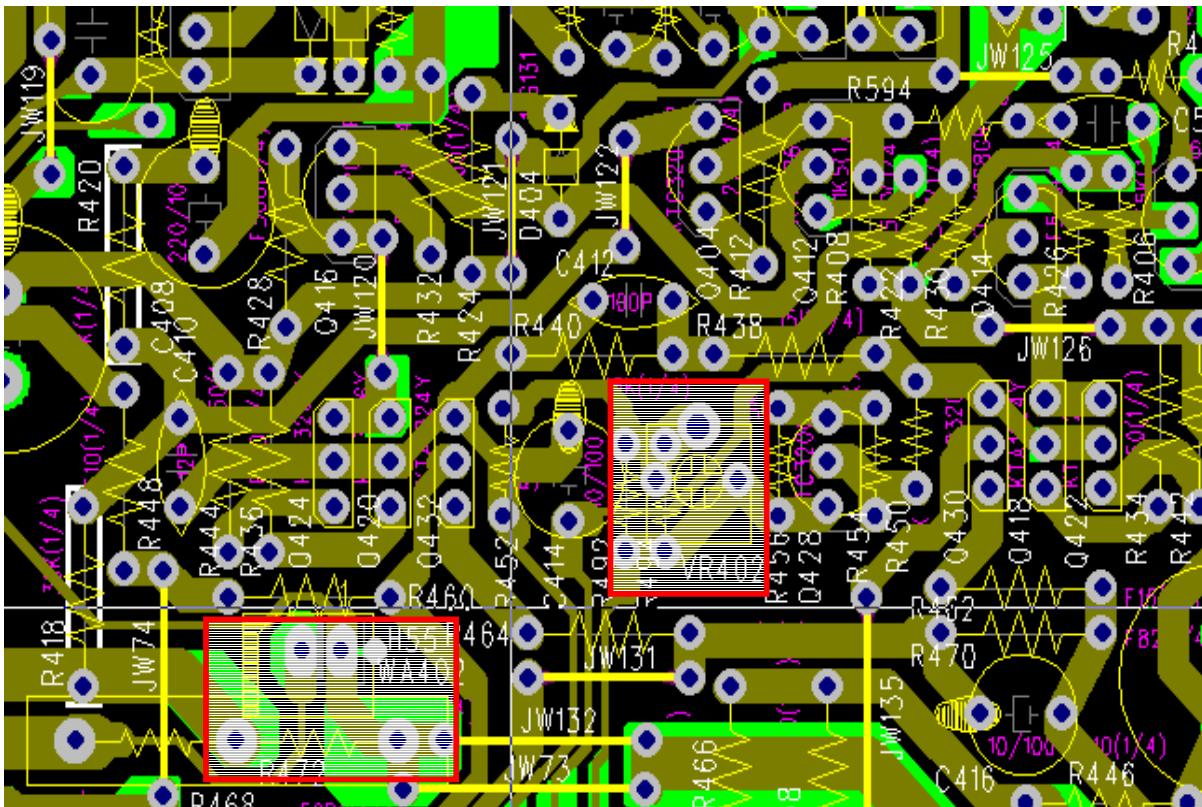
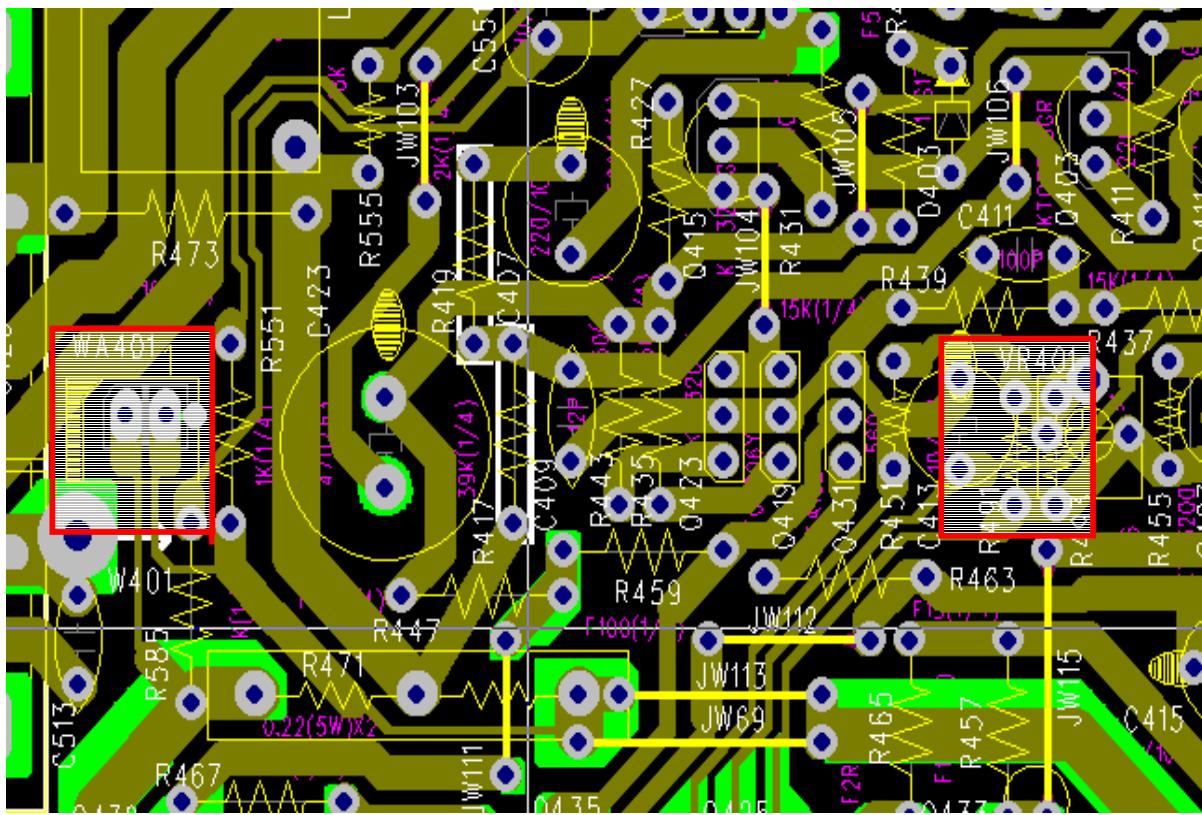
* After approximately two weeks of being disconnected from AC supply, even a normally functioning receiver will lose any programmed settings and switch to default settings.

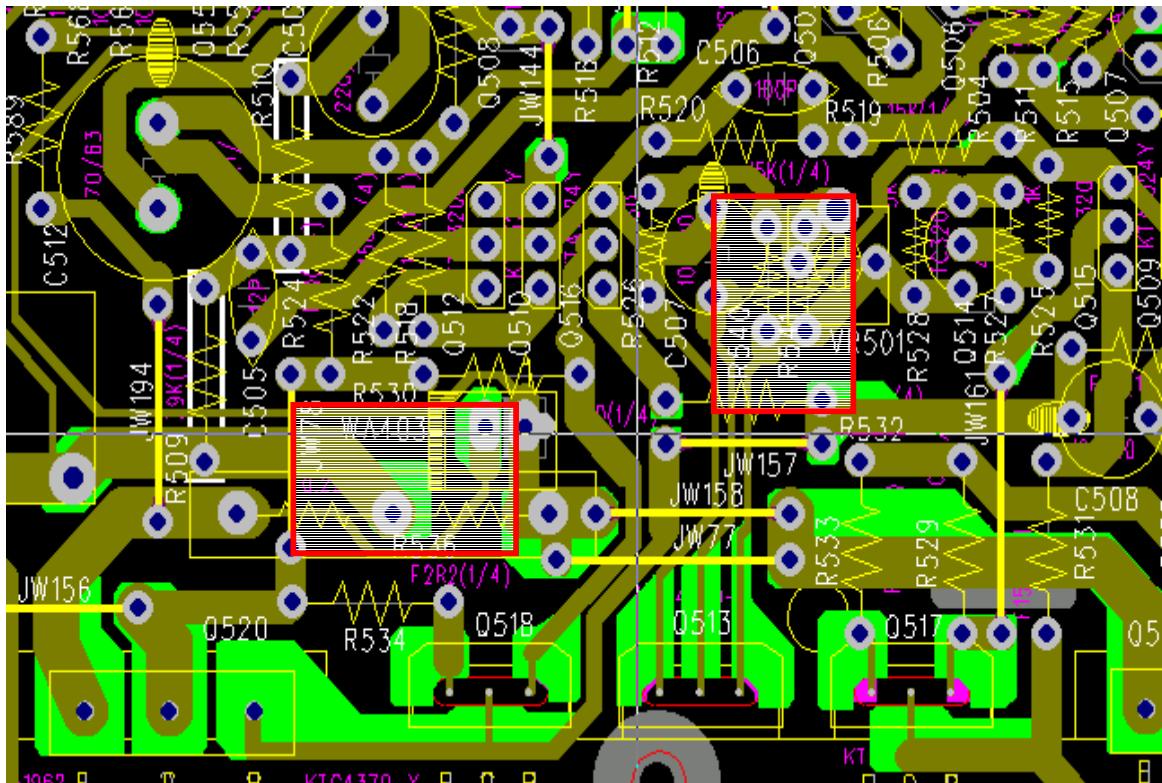
Idle Adjustment Procedure

1. MAIN B'D

Turn POWER ON and wait 10 minutes, set controls VR401,VR402,VR501
in order to make voltages on both ends of WA401,WA402,WA403

20mV. See locations below



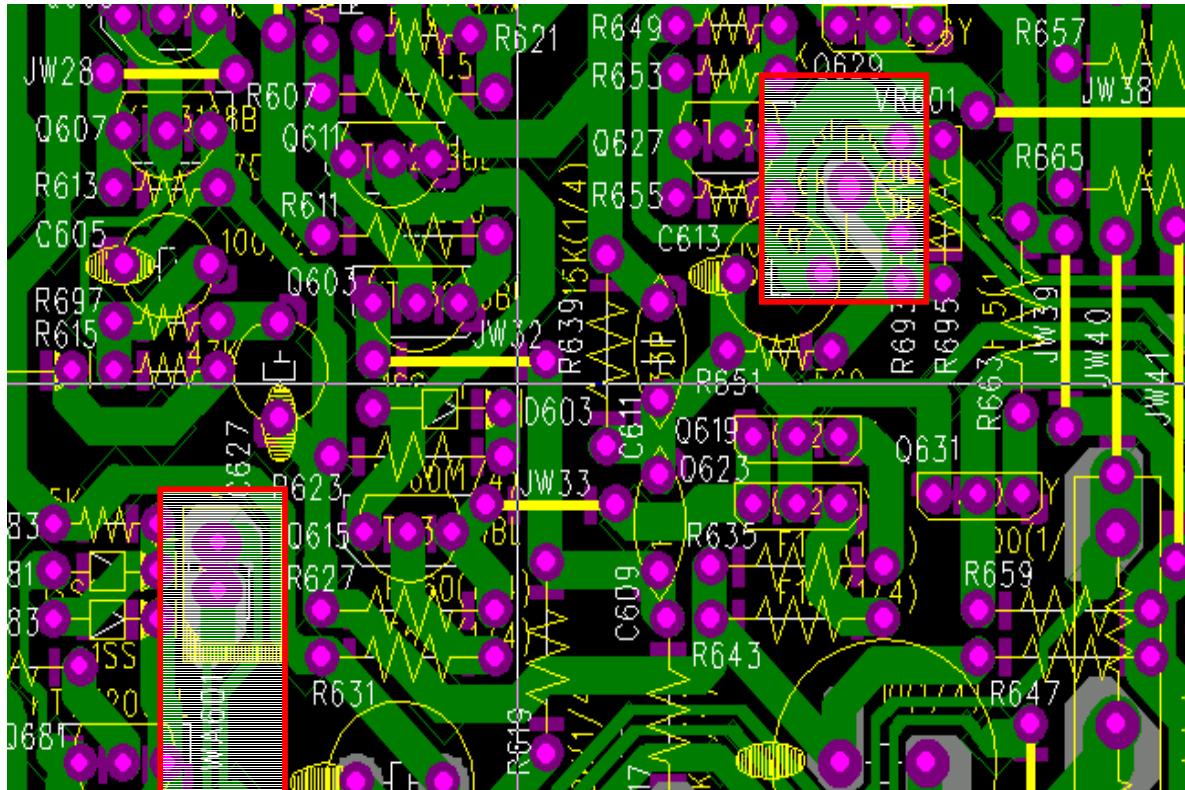


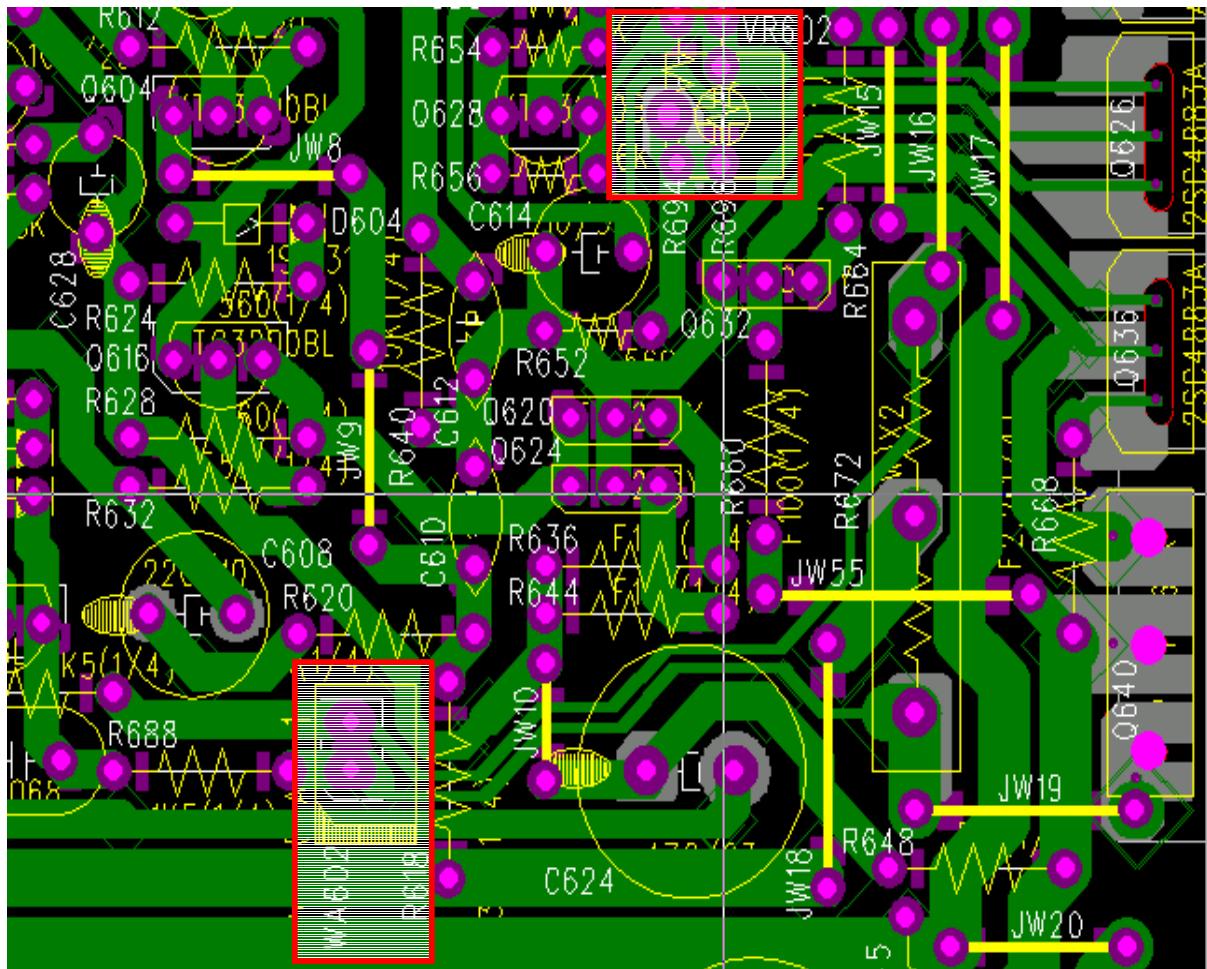
2. SURROUND B'D

Turn POWER ON and wait 10 minutes, set controls VR601,VR602

in order to make voltages on both ends of WA601,WA602

20mV. See locations below





AVR520 Electrical Parts List

Main PCB

Ref. Designator	Part Number	Qty	Description
--------------------	-------------	-----	-------------

Capacitors

C101	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C102	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C103	15002130	1 PC	CE 10U0F +20% 16.0V 85C
C104	15002130	1 PC	CE 10U0F +20% 16.0V 85C
C105	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C106	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C107	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C108	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C109	20293470	1 PC	CC 100N0F +80% -20% 50.0V F
C110	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C111	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C112	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C113	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C114	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C115	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C116	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C117	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C118	20293470	1 PC	CC 100N0F +80% -20% 50.0V F
C119	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C120	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C121	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C122	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C123	20293470	1 PC	CC 100N0F +80% -20% 50.0V F
C124	20293470	1 PC	CC 100N0F +80% -20% 50.0V F
C125	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C126	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C127	20293470	1 PC	CC 100N0F +80% -20% 50.0V F
C128	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C129	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C130	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C131	20293470	1 PC	CC 100N0F +80% -20% 50.0V F
C401	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C402	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C403	11055300	1 PC	CC 68P0F +5% -5% 50.0V NP0
C404	11055300	1 PC	CC 68P0F +5% -5% 50.0V NP0
C405	20269070	1 PC	CE 100U0F +20% 25.0V 85C
C406	20269070	1 PC	CE 100U0F +20% 25.0V 85C
C407	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C408	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C409	30936070	1 PC	CC 12P0F +5% -5% 50.0V NP0
C410	30936070	1 PC	CC 12P0F +5% -5% 50.0V NP0
C411	60439150	1 PC	CC 33P0F +5% -5% 50.0V NP0
C412	60439150	1 PC	CC 33P0F +5% -5% 50.0V NP0
C413	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C414	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C415	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C416	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C417	55179360	1 PC	CPM 100N0F +10% 63.0V

Ref. Designator	Part Number	Qty	Description
C418	55179360	1 PC	CPM 100N0F +10% 63.0V
C419	55179360	1 PC	CPM 100N0F +10% 63.0V
C420	55179360	1 PC	CPM 100N0F +10% 63.0V
C425	11055540	1 PC	CC 2N2F +10% -10% 50.0V Y5P
C426	11055540	1 PC	CC 2N2F +10% -10% 50.0V Y5P
C431	10364820	1 PC	CPF 47N0F +10% 100.0V
C432	10364820	1 PC	CPF 47N0F +10% 100.0V
C433	10364820	1 PC	CPF 47N0F +10% 100.0V
C483	55095430	1 PC	CPM 100N0F +10% 250.0V
C484	10364820	1 PC	CPF 47N0F +10% 100.0V
C489	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C490	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C492	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C494	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C496	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C497	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C498	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C501	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C502	11055300	1 PC	CC 68P0F +5% -5% 50.0V NP0
C503	20269070	1 PC	CE 100U0F +20% 25.0V 85C
C504	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C505	30936070	1 PC	CC 12P0F +5% -5% 50.0V NP0
C506	60439150	1 PC	CC 33P0F +5% -5% 50.0V NP0
C507	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C508	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C509	55179360	1 PC	CPM 100N0F +10% 63.0V
C510	55179360	1 PC	CPM 100N0F +10% 63.0V
C513	11055540	1 PC	CC 2N2F +10% -10% 50.0V Y5P
C551	55179400	1 PC	CPM 68N0F +5% 63.0V
C552	55179400	1 PC	CPM 68N0F +5% 63.0V
C553	55179400	1 PC	CPM 68N0F +5% 63.0V
C554	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C555	70428520	1 PC	CC 10N0F +10% -10% 50.0V Y5P
C556	70428520	1 PC	CC 10N0F +10% -10% 50.0V Y5P
C564	55095430	1 PC	CPM 100N0F +10% 250.0V
C565	55095430	1 PC	CPM 100N0F +10% 250.0V
C566	10364820	1 PC	CPF 47N0F +10% 100.0V
C567	10364820	1 PC	CPF 47N0F +10% 100.0V
C568	15002130	1 PC	CE 10U0F +20% 16.0V 85C
C569	40433580	1 PC	CC 680P0F +10% -10% 50.0V Y5P
C570	40433580	1 PC	CC 680P0F +10% -10% 50.0V Y5P
C571	40433580	1 PC	CC 680P0F +10% -10% 50.0V Y5P
C421	13076940	1 PC	CE 470U0F +20% 63.0V 85C
C422	13076940	1 PC	CE 470U0F +20% 63.0V 85C
C423	13076940	1 PC	CE 470U0F +20% 63.0V 85C
C424	13076940	1 PC	CE 470U0F +20% 63.0V 85C
C481	55180370	1 PC	CE 10M10F +20% 63.0V 85C
C482	55180370	1 PC	CE 10M10F +20% 63.0V 85C
C485	40433130	1 PC	CE 2M12F +20% 35.0V 85C
C486	40433130	1 PC	CE 2M12F +20% 35.0V 85C
C487	55126160	1 PC	CE 6M18F +20% 16.0V 85C
C488	13039870	1 PC	CE 2M12F +20% 16.0V 85C
C511	13076940	1 PC	CE 470U0F +20% 63.0V 85C
C512	13076940	1 PC	CE 470U0F +20% 63.0V 85C

Ref. Designator	Part Number	Qty	Description
--------------------	-------------	-----	-------------

Semiconductors

D401	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D402	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D403	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D404	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D405	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D406	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D501	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D502	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D551	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D552	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D553	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D554	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D555	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D556	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D567	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
Q401	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q402	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q403	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q404	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q405	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q406	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q407	20508080	1 PC	TR-SLPLF KTC3198BL N 150MI0A
Q408	20508080	1 PC	TR-SLPLF KTC3198BL N 150MI0A
Q411	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q412	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q413	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q414	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q415	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q416	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q417	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q418	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q419	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q420	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q421	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q422	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q423	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q424	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q427	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q428	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q429	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q430	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q431	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q432	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q501	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q502	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q503	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q504	20508080	1 PC	TR-SLPLF KTC3198BL N 150MI0A
Q506	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q507	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q508	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q509	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V

Ref. Designator	Part Number	Qty	Description
Q510	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q511	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q512	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q514	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q515	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q516	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q551	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q552	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q553	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q554	20508080	1 PC	TR-SLPLF KTC3198BL N 150MI0A
Q555	20508080	1 PC	TR-SLPLF KTC3198BL N 150MI0A
Q556	20508080	1 PC	TR-SLPLF KTC3198BL N 150MI0A
Q557	20508210	1 PC	TR-SLPLF KTA1266 Y P 150MI0A
Q558	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q559	55179230	1 PC	TR-SLPSWA KRC107M N
Q561	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
IC101	55142240	1 PC	IC-OPERAMP NJM2068DD DUAL OP
IC481	20832440	1 PC	IC-REGPOSFXD KIA7815API NORMAL
IC482	55124020	1 PC	IC-REGNEGFXD KIA7915PI NORMAL
IC483	55125450	1 PC	IC-REGPOSFXD BA033T NORMAL
IC484	55123960	1 PC	IC-REGPOSFXD KIA7805API NORMAL
IC485	55123960	1 PC	IC-REGPOSFXD KIA7905PI NORMAL
IC486	55123990	1 PC	IC-REGNEGFXD KIA7905PI NORMAL
IC487	55179240	1 PC	IC-REGULADJ KA337 TO-220
D481	55179320	1 PC	D-BRDLC BRIDGE BU10-04
D482	55179300	1 PC	D-BRDLC BRIDGE W2-04F FRONTIER
D568	55125540	1 PC	D-BRDLC BU6-04F
Q425	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q426	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q433	55179190	1 PC	TR-SHPLF 2SA1859A P -2.0A
Q434	55179190	1 PC	TR-SHPLF 2SA1859A P -2.0A
Q435	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q436	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q437	55179180	1 PC	TR-SHPLF 2SC5358-R N 15.0A
Q438	55179180	1 PC	TR-SHPLF 2SC5358-R N 15.0A
Q439	55179150	1 PC	TR-SHPLF 2SA1986-R P -15.0A
Q440	55179150	1 PC	TR-SHPLF 2SA1986-R P -15.0A
Q513	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q517	55179190	1 PC	TR-SHPLF 2SA1859A P -2.0A
Q518	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q519	55179180	1 PC	TR-SHPLF 2SC5358-R N 15.0A
Q520	55179150	1 PC	TR-SHPLF 2SA1986-R P -15.0A

Resistors

R101	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R102	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R103	90571120	1 PC	RCF 12K0 OHM +5% 250MI0W
R104	90571120	1 PC	RCF 12K0 OHM +5% 250MI0W
R105	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R106	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R107	50882950	1 PC	RCF 100R0 OHM +5% 250MI0W
R108	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R109	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W

Ref. Designator	Part Number	Qty	Description
R110	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R111	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R112	20469460	1 PC	RCF 2K2 OHM +5% 250MIOW
R113	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R114	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R115	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R116	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R117	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R118	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R119	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R120	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R121	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R122	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R123	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R125	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R126	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R127	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R128	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R129	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R130	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R132	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R401	60441550	1 PC	RCF 330R0 OHM +5% 250MIOW
R402	60441550	1 PC	RCF 330R0 OHM +5% 250MIOW
R403	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R404	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R405	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R406	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R407	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R408	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R409	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R410	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R411	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R412	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R413	11059610	1 PC	RCF 270R0 OHM +5% 250MIOW
R414	11059610	1 PC	RCF 270R0 OHM +5% 250MIOW
R415	20469510	1 PC	RCF 43K0 OHM +5% 250MIOW
R416	20469510	1 PC	RCF 43K0 OHM +5% 250MIOW
R417	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R418	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R419	11059660	1 PC	RCF 2K0 OHM +5% 250MIOW
R420	11059660	1 PC	RCF 2K0 OHM +5% 250MIOW
R421	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R422	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R423	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R424	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R425	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R426	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R427	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R428	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R429	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R430	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R431	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R432	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R433	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW

Ref. Designator	Part Number	Qty	Description
R434	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R435	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R436	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R437	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R438	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R439	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R440	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R441	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R442	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R443	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R444	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R445	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R446	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R447	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R448	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R449	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
R450	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
R451	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R452	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R453	40435640	1 PC	RCF 4K7 OHM +5% 250MIOW
R454	40435640	1 PC	RCF 4K7 OHM +5% 250MIOW
R455	70430560	1 PC	RCF 5K6 OHM +5% 250MIOW
R456	70430560	1 PC	RCF 5K6 OHM +5% 250MIOW
R457	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R458	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R459	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R460	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R461	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R462	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R463	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R464	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R465	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW
R466	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW
R467	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW
R468	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW
R469	11059590	1 PC	RCF 82R0 OHM +5% 250MIOW
R470	11059590	1 PC	RCF 82R0 OHM +5% 250MIOW
R473	55242290	1 PC	RCF 10R0 OHM +5% 250MIOW
R474	55242290	1 PC	RCF 10R0 OHM +5% 250MIOW
R477	30939360	1 PC	RCF 10R0 OHM +5% 250MIOW
R478	30939360	1 PC	RCF 10R0 OHM +5% 250MIOW
R489	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R490	11059630	1 PC	RCF 680R0 OHM +5% 250MIOW
R501	60441550	1 PC	RCF 330R0 OHM +5% 250MIOW
R502	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R503	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R504	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R505	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R506	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R507	11059610	1 PC	RCF 270R0 OHM +5% 250MIOW
R508	20469510	1 PC	RCF 43K0 OHM +5% 250MIOW
R509	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R510	11059660	1 PC	RCF 2K0 OHM +5% 250MIOW
R511	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW

Ref. Designator	Part Number	Qty	Description
R512	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R513	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R514	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R515	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R516	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R517	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R518	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R519	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R520	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R521	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R522	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R523	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R524	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R525	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
R526	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R527	40435640	1 PC	RCF 4K7 OHM +5% 250MIOW
R528	70430560	1 PC	RCF 5K6 OHM +5% 250MIOW
R529	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R530	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R531	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R532	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R533	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW
R534	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW
R535	11059590	1 PC	RCF 82R0 OHM +5% 250MIOW
R537	55242290	1 PC	RCF 10R0 OHM +5% 250MIOW
R539	55242290	1 PC	RCF 10R0 OHM +5% 250MIOW
R551	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R552	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R553	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R554	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R555	60441580	1 PC	RCF 22K0 OHM +5% 250MIOW
R556	60441580	1 PC	RCF 22K0 OHM +5% 250MIOW
R557	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R558	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R559	60441580	1 PC	RCF 22K0 OHM +5% 250MIOW
R561	70430570	1 PC	RCF 8K2 OHM +5% 250MIOW
R562	11059710	1 PC	RCF 56K0 OHM +5% 250MIOW
R563	11059710	1 PC	RCF 56K0 OHM +5% 250MIOW
R564	11059710	1 PC	RCF 56K0 OHM +5% 250MIOW
R565	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R566	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R567	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R568	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R569	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R570	11059610	1 PC	RCF 270R0 OHM +5% 250MIOW
R571	80437030	1 PC	RCF 27K0 OHM +5% 250MIOW
R585	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R586	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R587	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R588	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R589	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R590	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R591	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R592	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW

Ref. Designator	Part Number	Qty	Description
R593	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R594	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R595	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R471	55179340	1 PC	RW 220MI0 OHM +5% 5.0W 100PPM/"C -100PPM/"C
R472	55179340	1 PC	RW 220MI0 OHM +5% 5.0W 100PPM/"C -100PPM/"C
R475	60442550	1 PC	RMOF 10R0 OHM +5% 1.0W
R476	60442550	1 PC	RMOF 10R0 OHM +5% 1.0W
R481	15022710	1 PC	RMOF 10R0 OHM +5% 2.0W
R482	15022710	1 PC	RMOF 10R0 OHM +5% 2.0W
R483	15022710	1 PC	RMOF 10R0 OHM +5% 2.0W
R484	80442780	1 PC	RMOF 4R7 OHM +5% 2.0W
R485	80442780	1 PC	RMOF 4R7 OHM +5% 2.0W
R486	80442780	1 PC	RMOF 4R7 OHM +5% 2.0W
R487	40440550	1 PC	RMOF 3R3 OHM +5% 2.0W
R536	55179340	1 PC	RW 220MI0 OHM +5% 5.0W 100PPM/"C -100PPM/"C
R538	60442550	1 PC	RMOF 10R0 OHM +5% 1.0W
VR401	55152180	1 PC	PR 1K0 OHM +30% 100MIOW
VR402	55152180	1 PC	PR 1K0 OHM +30% 100MIOW
VR501	55152180	1 PC	PR 1K0 OHM +30% 100MIOW

Miscellaneous

CN401	55171550	1 PC	CON 3.96MM PITCH MOLEX 35313-0310
CN402	55146610	1 PC	CONN 2.5MM 6 MA ST NAT 0 0
CN403	55146570	1 PC	CONN 2.5MM 3 MA ST NAT 0 0
CN407	55171520	1 PC	CONN 2.0MM 5 MA ST NAT MOLEX 35336-0510 0 0
CN408	55125010	1 PC	CONN 2.0MM 15 MA ST NAT MOLEX 35336-1510 0 0
CN409	55125010	1 PC	CONN 2.0MM 15 MA ST NAT MOLEX 35336-1510 0 0
CN410	55125010	1 PC	CONN 2.0MM 15 MA ST NAT MOLEX 35336-1510 0 0
CN411	55125010	1 PC	CONN 2.0MM 15 MA ST NAT MOLEX 35336-1510 0 0
CN412	55174630	1 PC	CONN 2.0MM 19 MA ST NAT MOLEX 35336-1910 0 0
CN413	55174620	1 PC	CONN 2.0MM 17 MA ST NAT MOLEX 35336-1710 0 0
CN414	55179440	1 PC	CONN 1.25MM 27 FE ST WH GF120-27S-TS 2794 A4
CN415	55205630	1 PC	CONN 2.0MM 16 MA ST NAT MOLEX 35336-1610 0 0
CN416	55123330	1 PC	CONN 2.0MM 6 MA ST NAT LW2002P06 0 0
CN417	55146570	1 PC	CONN 2.5MM 3 MA ST NAT 0 0
CN418	55124960	1 PC	CONN 2.0MM 11 MA ST NAT MOLEX 35336-1110 0 0
CN419	55174590	1 PC	CONN 2.0MM 9 MA ST NAT MOLEX 35336-0910 0 0
CP401	55182570	1 PC	WIRECONASY UNIQUE 7P 240MM UL1533 SHIELD 28 1
50	55176400	1 PC	AC HEATSINK REG 118*20*50H AVR520 -- ME
FU481	20828790	1 PC	FUSULSLWBL 2.0 A 250.0 V
FU482	20828790	1 PC	FUSULSLWBL 2.0 A 250.0 V
FU483	20828790	1 PC	FUSULSLWBL 2.0 A 250.0 V
FU484	20828790	1 PC	FUSULSLWBL 2.0 A 250.0 V
G011	55135980	1 PC	TERMLUG GND
JK404	55191420	1 PC	CON PHONO SCKT RCA 4P JW-4104RSA
JK405	55191480	1 PC	CON PHONO SCKT RCA 6P JW-4105RSB
JK407	55176330	1 PC	CON PHONO SCKT RCA 4P JW4104RS GND
JK408	55191370	1 PC	CON PHONO SCKT RCA 1P JACK JE010003XN
JK503	55191400	1 PC	CONN-SPE TERMINAL SPKR 6P SH0611705P FE 19MM 6 BK 0 0
L401	55179560	1 PC	LFA 1MM 10MM 5 LEFT
L402	55179560	1 PC	LFA 1MM 10MM 5 LEFT
L501	55179560	1 PC	LFA 1MM 10MM 5 LEFT
P551	55179640	1 PC	POS 100R0 OHM 16.0V

Ref. Designator	Part Number	Qty	Description
FH401	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
FH402	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
FH403	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
FH404	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
FH405	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
FH406	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
FH407	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
FH408	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
W101	20720260	1 PC	WCL 100-05-05 UL1007 HOOK-UP 26 100MM BK 5 5 20182780 0.0MM
20	20430330	2 PC	AC RAW TERMINAL 29614B 8.5MM
W401	55244370	1 PC	WIRECONASY UNIQUE 1P 250MM UL1007 PVC DISCRETE 18 1
W402	20899230	1 PC	WCL 050-05-05 UL1007 HOOK-UP 26 50MM BK 5 5 20182780 0.0MM
WA401	55146560	1 PC	CONN 2.5MM 2 MA ST NAT 0 0
WA402	55146560	1 PC	CONN 2.5MM 2 MA ST NAT 0 0
WA403	55146560	1 PC	CONN 2.5MM 2 MA ST NAT 0 0

Input PCB

Capacitors

C101	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C102	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C103	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C104	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C105	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C106	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C106	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C107	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C108	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C109	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C110	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C111	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C112	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C113	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C114	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C115	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C116	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C117	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C118	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C119	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C120	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C121	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C122	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C123	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C124	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C125	20250040	1 PC	CC 220P0F +10% -10% 50.0V Y5P
C126	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C127	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C128	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C129	10291350	1 PC	CC 33P0F +5% -5% 50.0V SL
C130	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C131	10291350	1 PC	CC 33P0F +5% -5% 50.0V SL
C132	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C133	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C134	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C135	20268880	1 PC	CE 10U0F +20% 50.0V 85C

Ref. Designator	Part Number	Qty	Description
C136	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C137	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C138	20267830	1 PC	CE 47U0F +20% 16.0V 85C

Semiconductors

IC101	55142710	1 PC	IC-SWITCH KIC9162AF ANALOG SWITCH
IC102	55142720	1 PC	IC-LOWFREQ KIC9459F SOP24 TONE/VOL/BAL/MUTE
IC103	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC104	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
Q101	55133220	1 PC	TR-SLPLF DTA114YSA P 100MI0A
Q102	55133290	1 PC	TR-SLPLF KTD1302 B N 300MI0A 20V
Q103	55133290	1 PC	TR-SLPLF KTD1302 B N 300MI0A 20V
Q104	55133210	1 PC	TR-SLPLF DTC114YSA N 100MI0A

Resistors

R143	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R144	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R145	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R146	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R147	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R148	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R149	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R150	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R151	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R152	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MI0W
R101	50882950	1 PC	RCF 100R0 OHM +5% 250MI0W
R102	50882950	1 PC	RCF 100R0 OHM +5% 250MI0W
R103	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R104	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R105	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R106	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R107	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R108	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R109	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R110	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R111	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R112	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R113	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R114	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R115	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R116	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R117	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R118	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R119	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R120	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R121	50882950	1 PC	RCF 100R0 OHM +5% 250MI0W
R122	50882950	1 PC	RCF 100R0 OHM +5% 250MI0W
R123	30939480	1 PC	RCF 10K0 OHM +5% 250MI0W
R124	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R125	70430560	1 PC	RCF 5K6 OHM +5% 250MI0W
R126	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W
R127	30939510	1 PC	RCF 100K0 OHM +5% 250MI0W
R128	50882970	1 PC	RCF 470R0 OHM +5% 250MI0W
R129	70430560	1 PC	RCF 5K6 OHM +5% 250MI0W
R130	11059640	1 PC	RCF 1K0 OHM +5% 250MI0W

Ref. Designator	Part Number	Qty	Description
--------------------	-------------	-----	-------------

R131	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R132	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R133	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R134	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R135	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R136	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R137	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R138	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R139	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R140	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R141	11059780	1 PC	RCF 1M0 OHM +5% 250MIOW
R142	60441600	1 PC	RCF 68K0 OHM +5% 250MIOW

Miscellaneous

CN101	55125030	1 PC	CONN 2.0MM 11 MA R NAT MOLEX 35237-1110 0 0
CN102	55175920	1 PC	WIRECONASY UNIQUE 10P 520MM UL1533 SHIELD 28 1
CN103	55175910	1 PC	WIRECONASY UNIQUE 12P 390MM UL1533 SHIELD 26 1
CN201	55174640	1 PC	CONN 2.0MM 9 MA R NAT SOCKET MOLEX 35237-0910 0 0
CP101	55174640	1 PC	CONN 2.0MM 9 MA R NAT SOCKET MOLEX 35237-0910 0 0
CP102	55125030	1 PC	CONN 2.0MM 11 MA R NAT MOLEX 35237-1110 0 0
CP104	55175910	1 PC	WIRECONASY UNIQUE 12P 390MM UL1533 SHIELD 26 1
CP105	55175920	1 PC	WIRECONASY UNIQUE 10P 520MM UL1533 SHIELD 28 1
JK101	55207740	1 PC	CON PHONO SCKT RCA 2P JE021163TN BRN/TAN
JK102	55176350	1 PC	CON PHONO SCKT RCA 6P JW-4105RSS W/GND CAP
JK102	55191410	1 PC	CON PHONO SCKT RCA 4P JW-4104RSB
JK103	55176330	1 PC	CON PHONO SCKT RCA 4P JW4104RS GND
JK103	55191800	1 PC	CON PHONO SCKT RCA 6P JW4105RSG W/GND CAP WH,RD,BU,WH,RD,BU

Surround PCB

Capacitors

C350	20252050	1 PC	CE 100U0F +20% 6.3V 85C
C351	20252050	1 PC	CE 100U0F +20% 6.3V 85C
C352	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C353	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C354	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C355	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C356	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C357	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C358	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C359	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C360	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C361	20252050	1 PC	CE 100U0F +20% 6.3V 85C
C362	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C363	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C364	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C365	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C366	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C367	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C368	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C369	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C370	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C371	20936650	1 PC	CC 100P0F +10% -10% 50.0V Y5P
C372	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C373	20267830	1 PC	CE 47U0F +20% 16.0V 85C

Ref. Designator	Part Number	Qty	Description
C374	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C375	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C386	20246470	1 PC	CC 100N0F +80% -20% 25.0V Z5V
C601	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C602	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C603	11055300	1 PC	CC 68P0F +5% -5% 50.0V NP0
C604	11055300	1 PC	CC 68P0F +5% -5% 50.0V NP0
C605	20269070	1 PC	CE 100U0F +20% 25.0V 85C
C606	20269070	1 PC	CE 100U0F +20% 25.0V 85C
C607	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C608	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C609	30936070	1 PC	CC 12P0F +5% -5% 50.0V NP0
C610	30936070	1 PC	CC 12P0F +5% -5% 50.0V NP0
C611	60439150	1 PC	CC 33P0F +5% -5% 50.0V NP0
C612	60439150	1 PC	CC 33P0F +5% -5% 50.0V NP0
C613	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C614	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C615	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C616	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C617	55179360	1 PC	CPM 100N0F +10% 63.0V
C618	55179360	1 PC	CPM 100N0F +10% 63.0V
C619	55179360	1 PC	CPM 100N0F +10% 63.0V
C620	55179360	1 PC	CPM 100N0F +10% 63.0V
C625	11055560	1 PC	CC 3N3F +10% -10% 50.0V Y5P
C626	11055560	1 PC	CC 3N3F +10% -10% 50.0V Y5P
C629	40433580	1 PC	CC 680P0F +10% -10% 50.0V Y5P
C630	40433580	1 PC	CC 680P0F +10% -10% 50.0V Y5P
C681	55179400	1 PC	CPM 68N0F +5% 63.0V
C682	55179400	1 PC	CPM 68N0F +5% 63.0V
C693	55095430	1 PC	CPM 100N0F +10% 250.0V
C694	55095430	1 PC	CPM 100N0F +10% 250.0V
C695	55095430	1 PC	CPM 100N0F +10% 250.0V
C696	15002130	1 PC	CE 10U0F +20% 16.0V 85C
C971	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C983	70428520	1 PC	CC 10N0F +10% -10% 50.0V Y5P
C985	20495030	1 PC	CC 100N0F +10% -10% 25.0V Y5P
C986	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C987	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C988	20495030	1 PC	CC 100N0F +10% -10% 25.0V Y5P
C991	20269010	1 PC	CE 47U0F +20% 50.0V 85C
C992	13039350	1 PC	CE 100U0F +20% 35.0V 85C
C993	20495030	1 PC	CC 100N0F +10% -10% 25.0V Y5P
C994	20495030	1 PC	CC 100N0F +10% -10% 25.0V Y5P
C995	20495030	1 PC	CC 100N0F +10% -10% 25.0V Y5P
C997	70428520	1 PC	CC 10N0F +10% -10% 50.0V Y5P
C998	70428520	1 PC	CC 10N0F +10% -10% 50.0V Y5P
C999	70428520	1 PC	CC 10N0F +10% -10% 50.0V Y5P
C621	13076940	1 PC	CE 470U0F +20% 63.0V 85C
C622	13076940	1 PC	CE 470U0F +20% 63.0V 85C
C623	13076940	1 PC	CE 470U0F +20% 63.0V 85C
C624	13076940	1 PC	CE 470U0F +20% 63.0V 85C
C691	55326560	1 PC	CE 6M18F +20% 63.0V 85C
C692	55326560	1 PC	CE 6M18F +20% 63.0V 85C
C982	55095470	1 PC	CC 4N7F +20% -20% 250.0V Y5V
C984	13073530	1 PC	CE 470U0F +20% 50.0V 85C
C989	13073530	1 PC	CE 470U0F +20% 50.0V 85C
C990	13073530	1 PC	CE 470U0F +20% 50.0V 85C

Ref. Designator	Part Number	Qty	Description
CA81	55095460	1 PC	CPPMX 100N0F +20% -20%
<i>Semiconductors</i>			
D601	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D602	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D603	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D604	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D681	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D682	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D683	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D684	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D685	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D987	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D988	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D991	20475340	1 PC	D-ZENER BZX55B30 30V 500MI0W
D992	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
D994	20873880	1 PC	D-ZENER 1N5236B 7.5V 500MI0W
D996	20526960	1 PC	D-ZENER 1N5231B 5.1V 500MI0W
Q301	55133210	1 PC	TR-SLPLF DTC114YSA N 100MI0A
Q601	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q602	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q603	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q604	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q605	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q606	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q607	20508080	1 PC	TR-SLPLF KTC3198BL N 150MI0A
Q608	20508080	1 PC	TR-SLPLF KTC3198BL N 150MI0A
Q611	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q612	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q613	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q614	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q615	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q616	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q617	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q618	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q619	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q620	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q621	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q622	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q623	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q624	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q627	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q628	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q629	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q630	55133240	1 PC	TR-SLPLF KTC3206 Y N 50MI0A 150V
Q631	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q632	55133260	1 PC	TR-SLPLF KTA1024 Y P 50MI0A -150V
Q681	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q682	20556600	1 PC	TR-SHPLF KTC3200BL N 100MI0A 120V
Q683	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q981	20647850	1 PC	TR-SHPLF KTA1268BL P 100MI0A 120V
Q982	55142670	1 PC	TR-SLPLF MPSA06 N 500MI0A
D691	55179280	1 PC	D-BRDLC BRIDGE BU8-04F FRONTIER
D981	20415060	1 PC	D-SR 1N4004 400.0V 1.0A
D982	20415060	1 PC	D-SR 1N4004 400.0V 1.0A
D983	20415060	1 PC	D-SR 1N4004 400.0V 1.0A

Ref. Designator	Part Number	Qty	Description
D984	20415060	1 PC	D-SR 1N4004 400.0V 1.0A
D985	20415060	1 PC	D-SR 1N4004 400.0V 1.0A
D986	20415060	1 PC	D-SR 1N4004 400.0V 1.0A
D989	20415060	1 PC	D-SR 1N4004 400.0V 1.0A
D990	20415060	1 PC	D-SR 1N4004 400.0V 1.0A
IC390	55179600	1 PC	IC-LOGIC TC4053BFN SOL16 MULTIPLEXER CMOS
IC391	55175530	1 PC	IC-VIDEOPROC TSH95D VIDEO AMPLIFIER
IC981	55179250	1 PC	IC-REGPOSFXD KIA7805API TO-220IS NORMAL
Q625	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q626	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q633	55179190	1 PC	TR-SHPLF 2SA1859A P -2.0A
Q634	55179190	1 PC	TR-SHPLF 2SA1859A P -2.0A
Q635	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q636	55179200	1 PC	TR-SHPLF 2SC4883A N 2.0A
Q637	55179180	1 PC	TR-SHPLF 2SC5358-R N 15.0A
Q638	55179180	1 PC	TR-SHPLF 2SC5358-R N 15.0A
Q639	55179150	1 PC	TR-SHPLF 2SA1986-R P -15.0A
Q640	55179150	1 PC	TR-SHPLF 2SA1986-R P -15.0A

Resistors

R350	70430520	1 PC	RCF 75R0 OHM +5% 250MIOW
R351	70430520	1 PC	RCF 75R0 OHM +5% 250MIOW
R352	60441580	1 PC	RCF 22K0 OHM +5% 250MIOW
R353	70430520	1 PC	RCF 75R0 OHM +5% 250MIOW
R354	70430520	1 PC	RCF 75R0 OHM +5% 250MIOW
R355	30939360	1 PC	RCF 10R0 OHM +5% 250MIOW
R356	70430520	1 PC	RCF 75R0 OHM +5% 250MIOW
R357	70430520	1 PC	RCF 75R0 OHM +5% 250MIOW
R358	30939360	1 PC	RCF 10R0 OHM +5% 250MIOW
R359	70430520	1 PC	RCF 75R0 OHM +5% 250MIOW
R360	30939360	1 PC	RCF 10R0 OHM +5% 250MIOW
R361	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R362	80436970	1 PC	RCF 510R0 OHM +5% 250MIOW
R363	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R364	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R365	80436970	1 PC	RCF 510R0 OHM +5% 250MIOW
R366	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R367	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R368	80436970	1 PC	RCF 510R0 OHM +5% 250MIOW
R369	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R370	70430520	1 PC	RCF 75R0 OHM +5% 250MIOW
R371	60441580	1 PC	RCF 22K0 OHM +5% 250MIOW
R372	70430520	1 PC	RCF 75R0 OHM +5% 250MIOW
R373	60441580	1 PC	RCF 22K0 OHM +5% 250MIOW
R374	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R601	60441550	1 PC	RCF 330R0 OHM +5% 250MIOW
R602	60441550	1 PC	RCF 330R0 OHM +5% 250MIOW
R603	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R604	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R605	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R606	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R607	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R608	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R609	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R610	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R611	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW

Ref. Designator	Part Number	Qty	Description
R612	20469450	1 PC	RCF 220R0 OHM +5% 250MIOW
R613	11059610	1 PC	RCF 270R0 OHM +5% 250MIOW
R614	11059610	1 PC	RCF 270R0 OHM +5% 250MIOW
R615	20469510	1 PC	RCF 43K0 OHM +5% 250MIOW
R616	20469510	1 PC	RCF 43K0 OHM +5% 250MIOW
R617	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R618	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R619	11059660	1 PC	RCF 2K0 OHM +5% 250MIOW
R620	11059660	1 PC	RCF 2K0 OHM +5% 250MIOW
R621	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R622	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R623	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R624	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R625	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R626	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R627	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R628	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R629	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R630	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R631	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R632	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R633	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R634	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R635	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R636	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R637	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R638	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R639	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R640	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R641	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R642	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R643	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R644	50882960	1 PC	RCF 150R0 OHM +5% 250MIOW
R645	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R646	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R647	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R648	55232810	1 PC	RMF 10R0 OHM +5% 500MIOW
R649	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
R650	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
R651	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R652	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R653	40435640	1 PC	RCF 4K7 OHM +5% 250MIOW
R654	40435640	1 PC	RCF 4K7 OHM +5% 250MIOW
R655	70430560	1 PC	RCF 5K6 OHM +5% 250MIOW
R656	70430560	1 PC	RCF 5K6 OHM +5% 250MIOW
R657	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R658	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R659	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R660	50882950	1 PC	RCF 100R0 OHM +5% 250MIOW
R661	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R662	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R663	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R664	30939370	1 PC	RCF 15R0 OHM +5% 250MIOW
R665	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW
R666	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW
R667	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW
R668	40438910	1 PC	RCF 2R2 OHM +5% 250MIOW

Ref. Designator	Part Number	Qty	Description
R669	11059590	1 PC	RCF 82R0 OHM +5% 250MIOW
R670	11059590	1 PC	RCF 82R0 OHM +5% 250MIOW
R673	30939360	1 PC	RCF 10R0 OHM +5% 250MIOW
R674	30939360	1 PC	RCF 10R0 OHM +5% 250MIOW
R677	30939360	1 PC	RCF 10R0 OHM +5% 250MIOW
R678	30939360	1 PC	RCF 10R0 OHM +5% 250MIOW
R679	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R680	50882970	1 PC	RCF 470R0 OHM +5% 250MIOW
R681	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R682	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R683	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R684	50883010	1 PC	RCF 15K0 OHM +5% 250MIOW
R685	60441580	1 PC	RCF 22K0 OHM +5% 250MIOW
R686	60441580	1 PC	RCF 22K0 OHM +5% 250MIOW
R687	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R688	40435630	1 PC	RCF 1K5 OHM +5% 250MIOW
R689	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R690	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R691	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R692	90571130	1 PC	RCF 39K0 OHM +5% 250MIOW
R971	30939480	1 PC	RCF 10K0 OHM +5% 250MIOW
R972	30939510	1 PC	RCF 100K0 OHM +5% 250MIOW
R981	20472530	1 PC	RCF 4R7 OHM +5% 250MIOW
R982	20469460	1 PC	RCF 2K2 OHM +5% 250MIOW
R983	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
R984	11059670	1 PC	RCF 2K7 OHM +5% 250MIOW
R985	30939380	1 PC	RCF 22R0 OHM +5% 250MIOW
R986	20469460	1 PC	RCF 2K2 OHM +5% 250MIOW
R987	60441560	1 PC	RCF 560R0 OHM +5% 250MIOW
R988	11067570	1 PC	RCF 1R0 OHM +5% 250MIOW
R989	11067570	1 PC	RCF 1R0 OHM +5% 250MIOW
R993	70430560	1 PC	RCF 5K6 OHM +5% 250MIOW
R671	55179340	1 PC	RW 220M10 OHM +5% 5.0W 100PPM/"C -100PPM/"C
R672	55179340	1 PC	RW 220M10 OHM +5% 5.0W 100PPM/"C -100PPM/"C
R675	60442550	1 PC	RMOF 10R0 OHM +5% 1.0W
R676	60442550	1 PC	RMOF 10R0 OHM +5% 1.0W
R995	55180100	1 PC	RA 3M3 OHM +10% 500MIOW
VR601	55152180	1 PC	PR 1K0 OHM +30% 100MIOW
VR602	55152180	1 PC	PR 1K0 OHM +30% 100MIOW

Miscellaneous

FH981	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
FH982	55170330	1 PC	TERMFUSEHLD R FUSE-HOLDER J4210020001X
50	55176410	1 PC	AC HEATSINK 17*15*30 AVR520 -- ME
55	55127070	1 PC	SCREW-ST 3MM 10MM JIS B 1122 19 0 0
AC981	55206550	1 PC	CONN-SPE AC OUTLET 2P 110V FE 12.75MM 2 BK 0 0
BKT1	55176420	1 PC	AC PUN BRACKET BKT GROUND ET 0.5T AVR520 --
BKT2	55176420	1 PC	AC PUN BRACKET BKT GROUND ET 0.5T AVR520 --
C378	15041100	1 PC	RA 3M3 OHM +10% 500MIOW
CN390	55123310	1 PC	CONN 2.0MM 4 MA ST NAT LW2002P04 0 0
CN391	55090080	1 PC	CONN 2.0MM 3 MA ST NAT LW2002P03 0 0
CN606	55191230	1 PC	WIRECONASY UNIQUE 3P 864MM UL1007 PVC DISCRETE 26 1
CP390	55123310	1 PC	CONN 2.0MM 4 MA ST NAT LW2002P04 0 0
CP391	55091500	1 PC	RELAYPWR 12.0V 270.0OHM 10.0A 250.0V
FU981	55114060	1 PC	FUSULSLWBL 7.0 A 250.0 V
H012	55180170	1 PC	WIRECONASY UNIQUE 1P 200MM UL1007 PVC DISCRETE 18 1

Ref. Designator	Part Number	Qty	Description
H020	55180170	1 PC	WIRECONASY UNIQUE 1P 200MM UL1007 PVC DISCRETE 18 1
JA290	55176360	1 PC	CON PHONO SCKT RCA 9P W/GNDCAP JK090122LN
JK601	55191390	1 PC	CONN-SPE TERMINAL SPKR 4P SH0410376P FE 19MM 4 BK 0 0
L601	55179560	1 PC	LFA 1MM 10MM 5 LEFT
L602	55179560	1 PC	LFA 1MM 10MM 5 LEFT
RL981	55091500	1 PC	RELAYPWR 12.0V 270.0OHM 10.0A 250.0V
T981	55175760	1 PC	TF-LAM 110V STANDBY 120V
WA601	55146560	1 PC	CONN 2.5MM 2 MA ST NAT 0 0
WA602	55146560	1 PC	CONN 2.5MM 2 MA ST NAT 0 0
WA603	55171550	1 PC	CON 3.96MM PITCH MOLEX 35313-0310
WA625	55123310	1 PC	CONN 2.0MM 4 MA ST NAT LW2002P04 0 0
WA981	5504884A	1 PC	CON 3.96MM PITCH HEADER 2 POS
WA983	55123510	1 PC	CON 3.96MM PITCH HEADER 2 POS MOLEX 35328-0210
WA985	55123510	1 PC	CON 3.96MM PITCH HEADER 2 POS MOLEX 35328-0210
WA986	55146620	1 PC	CONN 2.5MM 7 MA ST NAT 0 0

Front PCB

Capacitors

C205	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C206	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NP0
C208	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NP0
C209	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C211	15070900	1 PC	CCCFMIN 820P0F +10% -10% 50.0V NP0
C212	15070900	1 PC	CCCFMIN 820P0F +10% -10% 50.0V NP0
C213	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C217	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C218	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C228	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NP0
C229	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NP0
C230	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NP0
C237	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C238	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C239	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C240	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C241	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C242	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C244	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C245	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C246	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NP0
C247	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NP0
C248	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NP0
CL211	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NP0
CR211	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NP0
C201	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C202	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C203	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C204	20269010	1 PC	CE 47U0F +20% 50.0V 85C
C210	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C214	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C215	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C219	20269010	1 PC	CE 47U0F +20% 50.0V 85C
C220	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C232	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C233	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C234	20268950	1 PC	CE 100N0F +20% 50.0V 85C

Ref. Designator	Part Number	Qty	Description
C235	10364820	1 PC	CPF 47N0F +10% 100.0V
C236	10364820	1 PC	CPF 47N0F +10% 100.0V
CL201	15002130	1 PC	CE 10U0F +20% 16.0V 85C
CL202	30936230	1 PC	CC 100P0F +5% -5% 50.0V NP0
CL203	80434590	1 PC	CC 22P0F +5% -5% 50.0V NP0
CL204	15002130	1 PC	CE 10U0F +20% 16.0V 85C
CL205	15002130	1 PC	CE 10U0F +20% 16.0V 85C
CL206	55179370	1 PC	CPM 18N0F +5% 100.0V
CL207	55179410	1 PC	CPM 82N0F +5% 100.0V
CL208	55179390	1 PC	CPM 3N3F +5% 100.0V
CL209	55179370	1 PC	CPM 18N0F +5% 100.0V
CR201	15002130	1 PC	CE 10U0F +20% 16.0V 85C
CR202	30936230	1 PC	CC 100P0F +5% -5% 50.0V NP0
CR203	80434590	1 PC	CC 22P0F +5% -5% 50.0V NP0
CR204	15002130	1 PC	CE 10U0F +20% 16.0V 85C
CR205	15002130	1 PC	CE 10U0F +20% 16.0V 85C
CR206	55179370	1 PC	CPM 18N0F +5% 100.0V
CR207	55179410	1 PC	CPM 82N0F +5% 100.0V
CR208	55179390	1 PC	CPM 3N3F +5% 100.0V
CR209	55179370	1 PC	CPM 18N0F +5% 100.0V
C203	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C216	55134360	1 PC	CM 47MI0F +80% -20% 5.5V 70C

Semiconductors

D248	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D249	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D250	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D251	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D253	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D254	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D255	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D261	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D262	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D264	80440510	1 PC	RMGCFMIN 0 OHM +0% 100M10W
IC202	20718660	1 PC	IC-LOGIC BU4094BF SHIFT REGISTER CMOS
IC203	20718660	1 PC	IC-LOGIC BU4094BF SHIFT REGISTER CMOS
IC204	20718660	1 PC	IC-LOGIC BU4094BF SHIFT REGISTER CMOS
Q201	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q202	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q203	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q204	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q205	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q206	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q207	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q208	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q209	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q210	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q211	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q212	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q213	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q214	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q215	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q216	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q217	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q218	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q219	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM

Ref. Designator	Part Number	Qty	Description
Q220	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q221	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q228	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q229	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q231	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q232	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q234	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q236	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q237	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q239	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q240	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q243	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q244	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q222	55133210	1 PC	TR-SLPLF DTC114YSA N 100MI0A
Q223	55133210	1 PC	TR-SLPLF DTC114YSA N 100MI0A
Q224	55133210	1 PC	TR-SLPLF DTC114YSA N 100MI0A
Q225	55133210	1 PC	TR-SLPLF DTC114YSA N 100MI0A
Q226	55133210	1 PC	TR-SLPLF DTC114YSA N 100MI0A
Q227	55142670	1 PC	TR-SLPLF MPSA06 N 500MI0A
Q233	55133350	1 PC	TR-SLPLF MPSA56 Y P -500MI0A -300V
Q235	55133210	1 PC	TR-SLPLF DTC114YSA N 100MI0A
Q241	55133290	1 PC	TR-SLPLF KTD1302 B N 300MI0A 20V
Q242	55133290	1 PC	TR-SLPLF KTD1302 B N 300MI0A 20V
D201	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D202	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D203	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D204	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D205	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D206	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D207	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D208	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D209	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D210	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D211	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D212	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D213	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D214	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D215	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D216	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D217	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D218	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D219	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D220	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D221	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D222	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D223	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D224	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D225	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D226	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D227	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D228	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D229	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D230	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D231	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D232	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D233	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D234	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD

Ref. Designator	Part Number	Qty	Description
D235	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D236	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D237	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D238	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D239	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D240	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D241	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D242	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D243	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D244	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D245	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D246	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D247	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D256	55179310	1 PC	D-LEM RED/GREEN 3PIE RD RND CL
D257	55179310	1 PC	D-LEM RED/GREEN 3PIE RD RND CL
D258	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D259	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D260	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D265	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D266	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D267	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
D268	55199400	1 PC	D-LEM CT-3SGTA GN RND 3.0 CL 60M0CD
IC201	5518246CMS	1 PC	IC-MICROCONT CXP82860-353Q MAIN AVR520
IC205	55142240	1 PC	IC-OPERAMP NJM2068DD DUAL OP

Resistors

R201	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R202	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R203	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R204	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R205	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R206	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R207	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R208	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R209	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R210	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R211	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R212	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R213	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R214	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R215	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R216	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R217	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R218	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R219	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R220	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R221	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R222	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R223	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R224	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R225	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R226	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R227	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R228	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R229	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R230	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW

Ref. Designator	Part Number	Qty	Description
R231	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R232	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R233	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R234	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R235	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R236	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R237	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R238	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R239	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R240	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R241	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R242	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R243	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R244	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R245	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R246	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R247	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R249	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R250	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R251	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R252	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R253	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R254	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R255	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R256	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R257	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R258	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R259	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R260	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R261	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R264	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R265	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R266	30944310	1 PC	RMGCFMIN 4K7 OHM +5% 100MIOW
R267	30944310	1 PC	RMGCFMIN 4K7 OHM +5% 100MIOW
R268	30944310	1 PC	RMGCFMIN 4K7 OHM +5% 100MIOW
R269	30944310	1 PC	RMGCFMIN 4K7 OHM +5% 100MIOW
R270	30944310	1 PC	RMGCFMIN 4K7 OHM +5% 100MIOW
R271	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R272	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R273	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R274	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R275	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R276	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R277	10355190	1 PC	RMGCFMIN 2R2 OHM +5% 100MIOW
R278	10355190	1 PC	RMGCFMIN 2R2 OHM +5% 100MIOW
R279	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R280	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R281	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R283	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R284	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R285	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R286	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R287	11066500	1 PC	RMGCFMIN 68K0 OHM +5% 100MIOW
R288	11066500	1 PC	RMGCFMIN 68K0 OHM +5% 100MIOW
R289	11066480	1 PC	RMGCFMIN 47K0 OHM +5% 100MIOW
R290	30944310	1 PC	RMGCFMIN 4K7 OHM +5% 100MIOW
R291	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW

Ref. Designator	Part Number	Qty	Description
R292	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R293	11066460	1 PC	RMGCFMIN 8K2 OHM +5% 100MIOW
R294	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R295	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R296	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R297	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R298	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R299	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R300	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R301	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R351	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R352	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R353	11066420	1 PC	RMGCFMIN 390R0 OHM +5% 100MIOW
R354	11066420	1 PC	RMGCFMIN 390R0 OHM +5% 100MIOW
R356	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R357	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R358	11066420	1 PC	RMGCFMIN 390R0 OHM +5% 100MIOW
R359	11066420	1 PC	RMGCFMIN 390R0 OHM +5% 100MIOW
R360	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
R361	20471920	1 PC	RMGCFMIN 220R0 OHM +5% 100MIOW
R362	20471920	1 PC	RMGCFMIN 220R0 OHM +5% 100MIOW
R363	20471920	1 PC	RMGCFMIN 220R0 OHM +5% 100MIOW
R364	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R365	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R366	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R367	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
RL201	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
RL202	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RL203	50886670	1 PC	RMGCFMIN 1M0 OHM +5% 100MIOW
RL204	11066480	1 PC	RMGCFMIN 47K0 OHM +5% 100MIOW
RL205	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
RL206	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RL207	20471940	1 PC	RMGCFMIN 680R0 OHM +5% 100MIOW
RL208	60444390	1 PC	RMGCFMIN 3K9 OHM +5% 100MIOW
RL209	60444400	1 PC	RMGCFMIN 22K0 OHM +5% 100MIOW
RL210	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
RP381	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP382	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP383	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP384	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP385	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP386	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP387	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP388	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP389	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP390	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP391	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP392	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP393	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP394	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP395	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP396	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP397	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RP398	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RR201	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
RR202	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RR203	50886670	1 PC	RMGCFMIN 1M0 OHM +5% 100MIOW

Ref. Designator	Part Number	Qty	Description
RR204	11066480	1 PC	RMGCFMIN 47K0 OHM +5% 100MIOW
RR205	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
RR206	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
RR207	20471940	1 PC	RMGCFMIN 680R0 OHM +5% 100MIOW
RR208	60444390	1 PC	RMGCFMIN 3K9 OHM +5% 100MIOW
RR209	60444400	1 PC	RMGCFMIN 22K0 OHM +5% 100MIOW
RR210	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R201	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
R202	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
VR201	55134900	1 PC	SWIROT EC16B24204A5 5V 500U0A 10T 3P 0 0
VR202	55179920	1 PC	PR-ROT 100K0 OHM NON-LINEAR RK14K12400BR 0 0
VR203	55179920	1 PC	PR-ROT 100K0 OHM NON-LINEAR RK14K12400BR 0 0
VR204	55179910	1 PC	PR-ROT 100K0 OHM NON-LINEAR RK14K12400BQ 0 0

Miscellaneous

J173	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J202	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J206	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J207	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J210	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J211	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J212	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J213	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J214	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J215	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J216	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J217	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J222	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J223	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J230	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J231	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J232	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J238	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J239	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J243	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J244	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J245	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J246	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J247	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J248	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J288	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J294	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J297	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J298	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
50	70436540	1 PC	D-SLP 1N4148 100.0V 150E-3A
CN201	5517577A	1 PC	WIRECONASY UNIQUE 7P 450MM UL1007 PVC DISCRETE 24 1
CN202	5517578A	1 PC	WIRECONASY UNIQUE 3P 620MM UL1007 PVC DISCRETE 24 1
CN203	55175810	1 PC	WIRECONASY UNIQUE 9P 400MM UL1007 PVC DISCRETE 26 1
CN204	55175790	1 PC	WIRECONASY UNIQUE 4P 100MM UL1007 PVC DISCRETE 26 1
CN205	55175840	1 PC	WIRECONASY UNIQUE 4P 360MM UL1533 SHIELD 28 1
CN206	55175830	1 PC	WIRECONASY UNIQUE 10P 220MM UL1533 SHIELD 28 1
CN208	55179520	1 PC	FFC-JUMPER 27X 1.25MM 500MM
CN209	55175850	1 PC	WIRECONASY UNIQUE 8P 500MM UL1533 SHIELD 28 1
CN210	55175880	1 PC	WIRECONASY UNIQUE 2P 100MM UL1007 PVC DISCRETE 26 1
CN211	55182560	1 PC	WIRECONASY UNIQUE 5P 300MM UL1007 PVC DISCRETE 26 1
CP201	55179450	1 PC	CONN 1.25MM 27 FE R WH GF120-27S-LS 2794 A6

Ref. Designator	Part Number	Qty	Description
CP202	55182560	1 PC	WIRECONASY UNIQUE 5P 300MM UL1007 PVC DISCRETE 26 1
CP203	55123340	1 PC	CONN 2.0MM 8 MA ST NAT LW2002P08 0 0
CP204	55123320	1 PC	CONN 2.0MM 5 MA ST NAT LW2002P05 0 0
FL201	55182450	1 PC	DISPLAY VFD HNA-16LL18
FN201	55177570	1 PC	AC PUN SHIELD FENCE TONE
J299	20441240	1 PC	BCL 0.5MM TIN ANNEALED COPPER 7.5MM 8MM FIG 1 20322610
JA201	55113740	1 PC	CON PHONO SCKT RCA-307 3 PINS
JA202	55113960	1 PC	CON DIN SCKT SOCKET CONNECTOR SVHS EST-S408J
L201	55179380	1 PC	LF 4U7H +10% 1.7 OHM 190.0A
L202	55179380	1 PC	LF 4U7H +10% 1.7 OHM 190.0A
RM201	55155930	1 PC	IC-REMOTE RPM6938-RSIP-A3 RECEIVER 38KHZ
W201	55180140	1 PC	WIRECONASY UNIQUE 1P 200MM UL1007 PVC DISCRETE 18 1
X201	55179650	1 PC	CRESONATOR 10M0 HZ 25.0 OHM OF

Key PCB**Capacitors**

C401	30939240	1 PC	CCCFMIN 22N0F +10% -10% 50.0V X7R
C402	30939240	1 PC	CCCFMIN 22N0F +10% -10% 50.0V X7R
C403	11059330	1 PC	CCCFMIN 2N2F +10% -10% 50.0V X7R
C404	11059330	1 PC	CCCFMIN 2N2F +10% -10% 50.0V X7R
C405	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C406	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C409	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C410	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C411	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C412	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C413	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C414	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C415	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C416	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C417	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C418	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V

Semiconductors

D401	55179330	1 PC	D-LEM RED/GREEN 5 RD RND CL
D402	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
D403	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
D404	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
D405	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
D406	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
Q401	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q403	55179220	1 PC	TR-SLPSWA KRA107M P
IC401	55179630	1 PC	PHOTCOUP PC-17T1 PHOTOCOUPLER DIP4
IC402	55179630	1 PC	PHOTCOUP PC-17T1 PHOTOCOUPLER DIP4
Q402	55179220	1 PC	TR-SLPSWA KRA107M P

Resistors

R401	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MI0W
R402	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MI0W
R403	70434230	1 PC	RMGCFMIN 1K2 OHM +5% 100MI0W
R404	40438290	1 PC	RMGCFMIN 1K5 OHM +5% 100MI0W
R405	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MI0W

Ref. Designator	Part Number	Qty	Description
R406	50886590	1 PC	RMGCFMIN 2K7 OHM +5% 100MIOW
R407	11066440	1 PC	RMGCFMIN 3K3 OHM +5% 100MIOW
R408	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R409	11066460	1 PC	RMGCFMIN 8K2 OHM +5% 100MIOW
R410	90574430	1 PC	RMGCFMIN 18K0 OHM +5% 100MIOW
R411	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R412	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R413	70434230	1 PC	RMGCFMIN 1K2 OHM +5% 100MIOW
R414	40438290	1 PC	RMGCFMIN 1K5 OHM +5% 100MIOW
R415	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R416	50886590	1 PC	RMGCFMIN 2K7 OHM +5% 100MIOW
R417	11066440	1 PC	RMGCFMIN 3K3 OHM +5% 100MIOW
R418	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R419	11066460	1 PC	RMGCFMIN 8K2 OHM +5% 100MIOW
R420	90574430	1 PC	RMGCFMIN 18K0 OHM +5% 100MIOW
R421	60444370	1 PC	RMGCFMIN 180R0 OHM +5% 100MIOW
R422	60444370	1 PC	RMGCFMIN 180R0 OHM +5% 100MIOW
R423	20471940	1 PC	RMGCFMIN 680R0 OHM +5% 100MIOW
R424	20471940	1 PC	RMGCFMIN 680R0 OHM +5% 100MIOW
R427	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R428	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R429	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R430	60444390	1 PC	RMGCFMIN 3K9 OHM +5% 100MIOW
R431	11066480	1 PC	RMGCFMIN 47K0 OHM +5% 100MIOW
R432	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R433	60444350	1 PC	RMGCFMIN 47R0 OHM +5% 100MIOW
R434	60444380	1 PC	RMGCFMIN 270R0 OHM +5% 100MIOW
R435	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R436	11066480	1 PC	RMGCFMIN 47K0 OHM +5% 100MIOW

Miscellaneous

J407	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J408	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
SW401	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW402	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW403	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW404	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW405	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW406	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW407	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW408	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW409	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW410	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW411	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW412	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW413	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW414	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW415	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW416	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW417	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW418	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW419	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
SW420	55145270	1 PC	SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
CN401	55175800	1 PC	WIRECONASY UNIQUE 8P 100MM UL1007 PVC DISCRETE 26 1
CN402	55175820	1 PC	WIRECONASY UNIQUE 5P 100MM UL1007 PVC DISCRETE 26 1
CN403	55175870	1 PC	WIRECONASY UNIQUE 3P 600MM UL2547 28 1

Ref. Designator	Part Number	Qty	Description
CN404	55175930	1 PC	WIRECONASY UNIQUE 7P 100MM UL2547 28 1
CP403	55090070	1 PC	CONN 2.0MM 2 MA ST NAT LW2002P0200T 0 0
CP404	55123310	1 PC	CONN 2.0MM 4 MA ST NAT LW2002P04 0 0
CP405	55123310	1 PC	CONN 2.0MM 4 MA ST NAT LW2002P04 0 0
FN401	55176420	1 PC	AC PUN BRACKET BKT GROUND ET 0.5T AVR520 --
FN402	55176420	1 PC	AC PUN BRACKET BKT GROUND ET 0.5T AVR520 --
HP401	55088400	1 PC	CONN-PHJAC 6.35 ST HORZ EST-J6313 BK 0 0
JA401	55176330	1 PC	CON PHONO SCKT RCA 4P JW4104RS GND
JA402	55176390	1 PC	CON PHONO SCKT STEREO JACK JW350S
JA403	55176390	1 PC	CON PHONO SCKT STEREO JACK JW350S
JA404	55176390	1 PC	CON PHONO SCKT STEREO JACK JW350S
L401	55168840	1 PC	LF 47U0H +10% 5.8 OHM 70MI0A
L402	55168840	1 PC	LF 47U0H +10% 5.8 OHM 70MI0A
W401	55180140	1 PC	WIRECONASY UNIQUE 1P 200MM UL1007 PVC DISCRETE 18 1

DSP PCB

Capacitors

C100	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C101	20506640	1 PC	CCCFMIC 220P0F +5% -5% 50.0V NP0
C102	20678070	1 PC	CCCFMIC 330P0F +5% -5% 50.0V NP0
C105	20678070	1 PC	CCCFMIC 330P0F +5% -5% 50.0V NP0
C107	20288060	1 PC	CCCFMIC 220N0F +80% -20% 16.0V Y5V
C110	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C113	20506520	1 PC	CCCFMIC 22P0F +5% -5% 50.0V NP0
C114	10138960	1 PC	CCCFMIC 10N0F +10% -10% 50.0V X7R
C115	20506520	1 PC	CCCFMIC 22P0F +5% -5% 50.0V NP0
C116	10138960	1 PC	CCCFMIC 10N0F +10% -10% 50.0V X7R
C119	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C120	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C123	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C124	20506520	1 PC	CCCFMIC 22P0F +5% -5% 50.0V NP0
C125	10138960	1 PC	CCCFMIC 10N0F +10% -10% 50.0V X7R
C135	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C137	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C138	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C145	10138670	1 PC	CCCFMIC 3N3F +10% -10% 50.0V X7R
C146	10138670	1 PC	CCCFMIC 3N3F +10% -10% 50.0V X7R
C147	10138670	1 PC	CCCFMIC 3N3F +10% -10% 50.0V X7R
C148	10138670	1 PC	CCCFMIC 3N3F +10% -10% 50.0V X7R
C149	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C150	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C151	20678070	1 PC	CCCFMIC 330P0F +5% -5% 50.0V NP0
C152	20678070	1 PC	CCCFMIC 330P0F +5% -5% 50.0V NP0
C160	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C161	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C162	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C163	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C164	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C165	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C166	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C167	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C173	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C174	10138710	1 PC	CCCFMIC 4N7F +10% -10% 50.0V X7R
C175	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C176	10138710	1 PC	CCCFMIC 4N7F +10% -10% 50.0V X7R

Ref. Designator	Part Number	Qty	Description
C177	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C178	10138550	1 PC	CCCFMIC 1N0F +10% -10% 50.0V X7R
C178	11059320	1 PC	CCCFMIN 1N0F +10% -10% 50.0V X7R
C179	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C180	10138550	1 PC	CCCFMIC 1N0F +10% -10% 50.0V X7R
C185	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C186	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C187	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C188	10138630	1 PC	CCCFMIC 2N7F +10% -10% 50.0V X7R
C189	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C190	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C190	11058710	1 PC	CCCFMIN 560P0F +5% -5% 50.0V NPO
C191	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C192	10138390	1 PC	CCCFMIC 560P0F +10% -10% 50.0V X7R
C198	10138620	1 PC	CCCFMIC 2N2F +10% -10% 50.0V X7R
C199	10138620	1 PC	CCCFMIC 2N2F +10% -10% 50.0V X7R
C202	20506590	1 PC	CCCFMIC 100P0F +5% -5% 50.0V NPO
C203	20506590	1 PC	CCCFMIC 100P0F +5% -5% 50.0V NPO
C204	20506590	1 PC	CCCFMIC 100P0F +5% -5% 50.0V NPO
C205	20506590	1 PC	CCCFMIC 100P0F +5% -5% 50.0V NPO
C213	20506590	1 PC	CCCFMIC 100P0F +5% -5% 50.0V NPO
C214	20506590	1 PC	CCCFMIC 100P0F +5% -5% 50.0V NPO
C554	20506520	1 PC	CCCFMIC 22P0F +5% -5% 50.0V NPO
C555	20506520	1 PC	CCCFMIC 22P0F +5% -5% 50.0V NPO
C556	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C557	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C558	20506520	1 PC	CCCFMIC 22P0F +5% -5% 50.0V NPO
C559	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C560	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C561	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C1	20506560	1 PC	CCCFMIC 33P0F +5% -5% 50.0V NPO
C103	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C104	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C111	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C112	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C117	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C118	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C121	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C122	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C126	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C127	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C128	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C129	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C130	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C131	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C134	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C136	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C139	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C140	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C141	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C142	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C143	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C144	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C153	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C154	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C155	10138670	1 PC	CCCFMIC 3N3F +10% -10% 50.0V X7R
C156	10138670	1 PC	CCCFMIC 3N3F +10% -10% 50.0V X7R

Ref. Designator	Part Number	Qty	Description
C157	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C158	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C159	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C168	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C169	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C170	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C171	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C172	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C181	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C182	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C183	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C184	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C193	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C194	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C195	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C196	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C197	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C2	20506560	1 PC	CCCFMIC 33P0F +5% -5% 50.0V NP0
C200	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C201	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C206	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C207	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C208	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C210	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C211	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C212	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C215	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C216	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C3	20288040	1 PC	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C302	20506680	1 PC	CCCFMIC 470P0F +5% -5% 50.0V NP0
C562	10375090	1 PC	CCCFMIC 20P0F +5% -5% 50.0V NP0
C563	10375090	1 PC	CCCFMIC 20P0F +5% -5% 50.0V NP0
C564	20506520	1 PC	CCCFMIC 22P0F +5% -5% 50.0V NP0
C565	20506520	1 PC	CCCFMIC 22P0F +5% -5% 50.0V NP0
C566	20506520	1 PC	CCCFMIC 22P0F +5% -5% 50.0V NP0
C132	20266570	1 PC	CPF 68N0F +10% 50.0V
C301	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C501	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C502	20268850	1 PC	CE 2U2F +20% 50.0V 85C
C507	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C508	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C509	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C510	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C511	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C512	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C513	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C514	20251830	1 PC	CE 1U0F +20% 50.0V 85C
C515	20251830	1 PC	CE 1U0F +20% 50.0V 85C
C516	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C517	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C518	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C519	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C520	20251830	1 PC	CE 1U0F +20% 50.0V 85C
C521	20251830	1 PC	CE 1U0F +20% 50.0V 85C
C522	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C523	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C524	10121000	1 PC	CE 10U0F +20% 16.0V 85C

Ref. Designator	Part Number	Qty	Description
C525	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C526	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C527	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C528	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C529	20251830	1 PC	CE 1U0F +20% 50.0V 85C
C530	20251830	1 PC	CE 1U0F +20% 50.0V 85C
C531	20342060	1 PC	CE 47U0F +20% 16.0V 85C
C532	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C533	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C534	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C535	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C536	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C537	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C538	20251830	1 PC	CE 1U0F +20% 50.0V 85C
C539	20251830	1 PC	CE 1U0F +20% 50.0V 85C
C540	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C541	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C542	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C543	20269110	1 PC	CE 330U0F +20% 6.3V 85C
C544	20269110	1 PC	CE 330U0F +20% 6.3V 85C
C545	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C546	20252560	1 PC	CE 220U0F +20% 6.3V 85C
C547	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C548	20269070	1 PC	CE 100U0F +20% 25.0V 85C
C549	20269070	1 PC	CE 100U0F +20% 25.0V 85C
C550	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C551	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C552	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C553	10121000	1 PC	CE 10U0F +20% 16.0V 85C
51	20472530	1 PC	RCF 4R7 OHM +5% 250MI0W
61	20472530	1 PC	RCF 4R7 OHM +5% 250MI0W
C504	20269180	1 PC	CE 1MI0F +20% 6.3V 85C
C505	20269180	1 PC	CE 1MI0F +20% 6.3V 85C
C506	20269180	1 PC	CE 1MI0F +20% 6.3V 85C

Semiconductors

D203	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
D204	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
IC103	55170220	1 PC	IC-LOGIC F/F 74VHC574MX FLIP/FLOP HCMOS
IC104	55170220	1 PC	IC-LOGIC F/F 74VHC574MX FLIP/FLOP HCMOS
IC112	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC113	20718660	1 PC	IC-LOGIC BU4094BF SHIFT REGISTER CMOS
IC114	55087180	1 PC	IC-LOGIC BU4051BCF MULTIPLEXER HCT
IC120	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC121	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC122	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC123	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC124	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC126	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC127	55180060	1 PC	IC-SPECFUNC NJU6324M SOP8 CMOS-CRYSTAL
Q102	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
Q103	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM
D201	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
D202	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
D301	20496510	1 PC	D-SLP 1SS355 35.0V 225MI0A
IC101	5512538A	1 PC	IC-LOWFREQ CS493263-CL G VERSION DSP

Ref. Designator	Part Number	Qty	Description
IC102	55172540AVR320	1 PC	IC-EPROM AT27LV020A-12JC
IC105	55125420	1 PC	IC-LOGIC 74VHC244MX INVERTER CMOS
IC106	55125420	1 PC	IC-LOGIC 74VHC244MX INVERTER CMOS
IC107	55179590	1 PC	IC-LOWFREQ CS8414-CS DSP
IC108	55179270	1 PC	IC-LOGIC QUAD 2-INPUT MP 74VHC157MX SOL16 FLIP/FLOP HCMOS
IC109	55133310	1 PC	IC-LOGIC M74HCU04M1R INVERTER HCT
IC110	55179260	1 PC	IC-LOGIC DUAL 4-INPUT MP 74VHC153MX SOL16 FLIP/FLOP HCMOS
IC111	55133310	1 PC	IC-LOGIC M74HCU04M1R INVERTER HCT
IC115	55204160	1 PC	IC-CONV CS5360-KS A/D
IC116	55179580	1 PC	IC-CONV CS4391-KS D/A
IC117	55179580	1 PC	IC-CONV CS4391-KS D/A
IC118	55179580	1 PC	IC-CONV CS4391-KS D/A
IC125	55204170	1 PC	IC-SWITCH NJU201AM ANALOG SWITCH
IC127	55180060	1 PC	IC-SPECFUNC NJU6324M SOP8 CMOS-CRYSTAL
IC128	5518247B	1 PC	IC-MICROCONT CXP82532-197Q SUB AVR520
IC129	55182540	1 PC	IC-REGPOSFXD 2.7V MM1562H NORMAL
Q101	55133330	1 PC	TR-SSD DTC114TKA N 10K0 OHM

Resistors

R102	10135940	1 PC	RMGCFMIC 4K7 OHM +5% 62M15W
R103	10135940	1 PC	RMGCFMIC 4K7 OHM +5% 62M15W
R104	10135940	1 PC	RMGCFMIC 4K7 OHM +5% 62M15W
R105	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R106	10135940	1 PC	RMGCFMIC 4K7 OHM +5% 62M15W
R107	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R108	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R109	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R110	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R111	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R112	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R113	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R114	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R115	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R116	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R117	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R118	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R119	10135940	1 PC	RMGCFMIC 4K7 OHM +5% 62M15W
R120	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R121	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62M15W
R122	10134710	1 PC	RMGCFMIC 75R0 OHM +5% 62M15W
R123	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62M15W
R124	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62M15W
R125	10134710	1 PC	RMGCFMIC 75R0 OHM +5% 62M15W
R126	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62M15W
R127	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62M15W
R128	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62M15W
R129	10135860	1 PC	RMGCFMIC 2K2 OHM +5% 62M15W
R130	10135860	1 PC	RMGCFMIC 2K2 OHM +5% 62M15W
R131	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62M15W
R132	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62M15W
R133	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62M15W
R134	10134920	1 PC	RMGCFMIC 510R0 OHM +5% 62M15W
R135	10134910	1 PC	RMGCFMIC 470R0 OHM +5% 62M15W
R136	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62M15W
R137	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62M15W
R138	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62M15W

Ref. Designator	Part Number	Qty	Description
R139	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R140	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R142	10135860	1 PC	RMGCFMIC 2K2 OHM +5% 62MI5W
R143	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62MI5W
R144	10134910	1 PC	RMGCFMIC 470R0 OHM +5% 62MI5W
R145	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62MI5W
R146	10134710	1 PC	RMGCFMIC 75R0 OHM +5% 62MI5W
R147	10134650	1 PC	RMGCFMIC 47R0 OHM +5% 62MI5W
R148	10135860	1 PC	RMGCFMIC 2K2 OHM +5% 62MI5W
R149	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62MI5W
R150	10135860	1 PC	RMGCFMIC 2K2 OHM +5% 62MI5W
R151	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62MI5W
R152	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R153	10134910	1 PC	RMGCFMIC 470R0 OHM +5% 62MI5W
R154	10134920	1 PC	RMGCFMIC 510R0 OHM +5% 62MI5W
R155	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R156	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R157	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R158	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R159	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R162	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R163	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R165	10134830	1 PC	RMGCFMIC 220R0 OHM +5% 62MI5W
R166	10134830	1 PC	RMGCFMIC 220R0 OHM +5% 62MI5W
R167	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R168	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R169	10134830	1 PC	RMGCFMIC 220R0 OHM +5% 62MI5W
R170	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R171	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R172	50886540	1 PC	RMGCFMIN 330R0 OHM +5% 100MI0W
R173	10134830	1 PC	RMGCFMIC 220R0 OHM +5% 62MI5W
R173	50886540	1 PC	RMGCFMIN 330R0 OHM +5% 100MI0W
R174	10134830	1 PC	RMGCFMIC 220R0 OHM +5% 62MI5W
R175	10135950	1 PC	RMGCFMIC 5K1 OHM +5% 62MI5W
R176	10135950	1 PC	RMGCFMIC 5K1 OHM +5% 62MI5W
R177	10135950	1 PC	RMGCFMIC 5K1 OHM +5% 62MI5W
R178	10135950	1 PC	RMGCFMIC 5K1 OHM +5% 62MI5W
R179	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R180	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R181	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R182	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R183	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R184	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R185	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R186	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R187	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R188	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R189	10135400	1 PC	RMGCFMIC 180K0 OHM +5% 62MI5W
R190	10135400	1 PC	RMGCFMIC 180K0 OHM +5% 62MI5W
R191	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R192	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R193	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R194	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R195	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R196	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R197	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R198	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W

Ref. Designator	Part Number	Qty	Description
R199	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R200	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R201	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R202	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R203	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R204	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R205	10135340	1 PC	RMGCFMIC 100K0 OHM +5% 62MI5W
R206	10135340	1 PC	RMGCFMIC 100K0 OHM +5% 62MI5W
R207	10135400	1 PC	RMGCFMIC 180K0 OHM +5% 62MI5W
R208	10135400	1 PC	RMGCFMIC 180K0 OHM +5% 62MI5W
R209	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R210	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R211	10135950	1 PC	RMGCFMIC 5K1 OHM +5% 62MI5W
R212	10135950	1 PC	RMGCFMIC 5K1 OHM +5% 62MI5W
R213	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R214	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R215	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R216	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R217	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R218	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R219	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R220	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R221	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R222	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R223	10135340	1 PC	RMGCFMIC 100K0 OHM +5% 62MI5W
R224	10135340	1 PC	RMGCFMIC 100K0 OHM +5% 62MI5W
R225	10135820	1 PC	RMGCFMIC 1K5 OHM +5% 62MI5W
R226	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R227	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R228	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R229	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R230	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R231	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R232	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R233	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R234	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R235	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R236	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R237	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R238	10135960	1 PC	RMGCFMIC 5K6 OHM +5% 62MI5W
R239	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R240	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R241	10135340	1 PC	RMGCFMIC 100K0 OHM +5% 62MI5W
R242	10135340	1 PC	RMGCFMIC 100K0 OHM +5% 62MI5W
R243	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R244	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R246	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62MI5W
R247	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R248	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R249	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R250	10134780	1 PC	RMGCFMIC 150R0 OHM +5% 62MI5W
R251	10134780	1 PC	RMGCFMIC 150R0 OHM +5% 62MI5W
R252	10134780	1 PC	RMGCFMIC 150R0 OHM +5% 62MI5W
R253	10134780	1 PC	RMGCFMIC 150R0 OHM +5% 62MI5W
R254	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R255	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R256	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W

Ref. Designator	Part Number	Qty	Description
R257	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R258	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R259	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R260	10135090	1 PC	RMGCFMIC 20K0 OHM +5% 62MI5W
R261	10135090	1 PC	RMGCFMIC 20K0 OHM +5% 62MI5W
R262	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62MI5W
R263	10135220	1 PC	RMGCFMIC 47K0 OHM +5% 62MI5W
R264	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R265	10135940	1 PC	RMGCFMIC 4K7 OHM +5% 62MI5W
R268	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R269	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R270	10135340	1 PC	RMGCFMIC 100K0 OHM +5% 62MI5W
R271	10135340	1 PC	RMGCFMIC 100K0 OHM +5% 62MI5W
R272	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R273	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R274	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R275	10135790	1 PC	RMGCFMIC 1K2 OHM +5% 62MI5W
R276	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R277	10134930	1 PC	RMGCFMIC 560R0 OHM +5% 62MI5W
R301	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R302	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R303	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R304	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R305	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R306	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R307	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R308	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R309	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R310	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R311	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R312	10134910	1 PC	RMGCFMIC 470R0 OHM +5% 62MI5W
R313	10135940	1 PC	RMGCFMIC 4K7 OHM +5% 62MI5W
R314	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R315	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R316	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R317	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R318	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R319	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R320	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R321	10135770	1 PC	RMGCFMIC 1K0 OHM +5% 62MI5W
R999	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R160	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R161	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R164	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R164	10134950	1 PC	RMGCFMIC 680R0 OHM +5% 62MI5W
R245	10134410	1 PC	RMGCFMIC 10R0 OHM +5% 62MI5W
R266	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R267	10135010	1 PC	RMGCFMIC 10K0 OHM +5% 62MI5W
R322	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W
R323	10134740	1 PC	RMGCFMIC 100R0 OHM +5% 62MI5W

Miscellaneous

BD11	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
BD12	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
BD14	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
BD15	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02

Ref. Designator	Part Number	Qty	Description
BD16	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
BD17	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
BD20	55126650	1 PC	FBEAD SURFACE MT 300OHM FCM2012V-301T07
BD21	55126650	1 PC	FBEAD SURFACE MT 300OHM FCM2012V-301T07
BD10	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
BD13	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
BD18	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
BD19	55126650	1 PC	FBEAD SURFACE MT 300OHM FCM2012V-301T07
BD22	55126650	1 PC	FBEAD SURFACE MT 300OHM FCM2012V-301T07
BD23	55126650	1 PC	FBEAD SURFACE MT 300OHM FCM2012V-301T07
BD24	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
BD25	55126690	1 PC	FBEAD SURFACE MT 2500OHM FCM2012H-252T02
J2	10328750	1 PC	RMGCFMIC 0 OHM +0% 62MI5W
J3	10328750	1 PC	RMGCFMIC 0 OHM +0% 62MI5W
J999	10328750	1 PC	RMGCFMIC 0 OHM +0% 62MI5W
CN101	55123390	1 PC	CONN 2.0MM 5 MA R NAT -- 0 0
CN102	55174670	1 PC	CONN 2.0MM 19 MA R NAT SOCKET MOLEX 35237-1910 0 0
CN103	55174660	1 PC	CONN 2.0MM 17 MA R NAT SOCKET MOLEX 35237-1710 0 0
CN104	55123390	1 PC	CONN 2.0MM 5 MA R NAT -- 0 0
CN105	55175860	1 PC	WIRECONASY UNIQUE 5P 480MM UL1007 PVC DISCRETE 26 1
CN106	55191240	1 PC	WIRECONASY UNIQUE 3P 500MM UL1007 PVC DISCRETE 26 1
CP101	55123390	1 PC	CONN 2.0MM 5 MA R NAT -- 0 0
CP102	55123390	1 PC	CONN 2.0MM 5 MA R NAT -- 0 0
CP106	55191240	1 PC	WIRECONASY UNIQUE 3P 500MM UL1007 PVC DISCRETE 26 1
JAC1	55175240	1 PC	CON PHONO SCKT RCA 1P W/GND JE010003MG
JAC2	55125430	1 PC	D-LEM TORX178B RD RND CL
JK101	55125430	1 PC	D-LEM TORX178B RD RND CL
JK102	55125430	1 PC	D-LEM TORX178B RD RND CL
JK103	55125440	1 PC	D-LEM TOTX178B RD RND CL
JK104	55125430	1 PC	D-LEM TORX178B RD RND CL
JK105	55191600	1 PC	CON PHONO SCKT RCA 2P W/GNDCAP JW-1502SN OO
JK106	55175950	1 PC	CON PHONO SCKT RCA 1P W/GND JE010003MN
JK107	55175240	1 PC	CON PHONO SCKT RCA 1P W/GND JE010003MG
OSC101	55126130	1 PC	VCXO 12M288 HZ +50 PPM -50 PPM 0 OHM
OSC102	55126140	1 PC	CRESONATOR 10M0 HZ 25.0 OHM OF
RY101	55179930	1 PC	RELAYPWR 5.0V 166.0OHM 1.0A 24.0V
SHILD	55182550	1 PC	AC PUN SHIELD DIGITAL ET
T101	55176540	1 PC	TFPULSE TRANSFORMER 110UH FP-110 FERRIT MAGNET
T102	55176550	1 PC	TFPULSE TRANSFORMER 110UH FP-120 FERRIT MAGNET
W1	55180120	1 PC	WIRECONASY UNIQUE 1P 100MM UL1007 PVC DISCRETE 18 1

Video PCB

Capacitors

C608	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C609	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C611	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C612	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C619	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C620	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C629	11059340	1 PC	CCCFMIN 10N0F +10% -10% 50.0V X7R
C632	11059340	1 PC	CCCFMIN 10N0F +10% -10% 50.0V X7R
C637	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C638	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C640	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C641	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO

Ref. Designator	Part Number	Qty	Description
C642	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C657	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
C658	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C659	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C670	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C673	11059340	1 PC	CCCFMIN 10N0F +10% -10% 50.0V X7R
C674	40435180	1 PC	CCCFMIN 47P0F +5% -5% 50.0V NPO
C676	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C681	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C686	11059340	1 PC	CCCFMIN 10N0F +10% -10% 50.0V X7R
C688	11059330	1 PC	CCCFMIN 2N2F +10% -10% 50.0V X7R
C690	11059320	1 PC	CCCFMIN 1N0F +10% -10% 50.0V X7R
C696	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C697	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
CC602	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
CC604	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
CC607	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
CC609	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
CF603	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
CF606	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
CF608	11059440	1 PC	CCCFMIN 10P0F +0P25F -0P25F 50.0V NPO
CF610	11059440	1 PC	CCCFMIN 10P0F +0P25F -0P25F 50.0V NPO
CF613	20267290	1 PC	CCCFMIN 100N0F +80% -20% 50.0V Y5V
CF615	11059440	1 PC	CCCFMIN 10P0F +0P25F -0P25F 50.0V NPO
C601	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C602	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C603	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C604	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C605	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C606	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C610	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C613	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C614	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C615	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C616	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C617	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C618	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C621	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C622	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C623	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C624	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C625	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C626	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C627	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C628	40433090	1 PC	CE 1M10F +20% 6.3V 85C
C630	20268850	1 PC	CE 2U2F +20% 50.0V 85C
C631	20268880	1 PC	CE 10U0F +20% 50.0V 85C
C633	20268940	1 PC	CE 100U0F +20% 10.0V 85C
C639	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C647	40433090	1 PC	CE 1M10F +20% 6.3V 85C
C650	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C651	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C652	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C653	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C660	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C661	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C662	40433090	1 PC	CE 1M10F +20% 6.3V 85C

Ref. Designator	Part Number	Qty	Description
C663	40433090	1 PC	CE 1M10F +20% 6.3V 85C
C664	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C665	20252670	1 PC	CE 470U0F +20% 10.0V 85C
C666	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C671	20268960	1 PC	CE 330N0F +20% 50.0V 85C
C672	20268940	1 PC	CE 100U0F +20% 10.0V 85C
C675	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C678	40433350	1 PC	CC 18P0F +5% -5% 50.0V NP0
C679	20269080	1 PC	CE 220U0F +20% 10.0V 85C
C682	20268940	1 PC	CE 100U0F +20% 10.0V 85C
C683	80434590	1 PC	CC 22P0F +5% -5% 50.0V NP0
C684	80434590	1 PC	CC 22P0F +5% -5% 50.0V NP0
C685	20268940	1 PC	CE 100U0F +20% 10.0V 85C
C687	20268940	1 PC	CE 100U0F +20% 10.0V 85C
C691	20268840	1 PC	CE 1U0F +20% 50.0V 85C
C698	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C699	20267830	1 PC	CE 47U0F +20% 16.0V 85C
CC601	20268880	1 PC	CE 10U0F +20% 50.0V 85C
CC603	20268880	1 PC	CE 10U0F +20% 50.0V 85C
CC606	20268880	1 PC	CE 10U0F +20% 50.0V 85C
CF601	20268880	1 PC	CE 10U0F +20% 50.0V 85C
CF602	20268880	1 PC	CE 10U0F +20% 50.0V 85C
CF604	20269080	1 PC	CE 220U0F +20% 10.0V 85C
CF605	20268880	1 PC	CE 10U0F +20% 50.0V 85C
CF611	20269080	1 PC	CE 220U0F +20% 10.0V 85C
CF612	20268880	1 PC	CE 10U0F +20% 50.0V 85C
CS607	20268880	1 PC	CE 10U0F +20% 50.0V 85C

Semiconductors

D601	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D602	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D603	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D604	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D605	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D606	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D607	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D608	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D609	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D611	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D612	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D613	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D614	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
D615	20496510	1 PC	D-SLP 1SS355 35.0V 225M10A
IC601	55125370	1 PC	IC-SWITCH NJM2296 SOP16 VIDEO
IC602	55125370	1 PC	IC-SWITCH NJM2296 SOP16 VIDEO
IC603	55125370	1 PC	IC-SWITCH NJM2296 SOP16 VIDEO
IC605	20718660	1 PC	IC-LOGIC BU4094BF SHIFT REGISTER CMOS
IC606	20718660	1 PC	IC-LOGIC BU4094BF SHIFT REGISTER CMOS
IC608	20718770	1 PC	IC-LOGIC BU4053BF MULTIPLEXER CMOS
Q601	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q606	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q607	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q608	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q611	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q613	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q602	55157120	1 PC	TR-SLPLF KTC2874 A N 300MI0A 20V

Ref. Designator	Part Number	Qty	Description
Q603	55157120	1 PC	TR-SLPLF KTC2874 A N 300M10A 20V
Q604	55157120	1 PC	TR-SLPLF KTC2874 A N 300M10A 20V
Q605	55101930	1 PC	TR-SLPLF 2SA933ASR P -3.0A -20V
Q609	55157120	1 PC	TR-SLPLF KTC2874 A N 300M10A 20V
Q610	55133290	1 PC	TR-SLPLF KTD1302 B N 300M10A 20V
Q614	55133250	1 PC	TR-SLPLF 2SC1740S R N 150M10A 50V
Q615	55157120	1 PC	TR-SLPLF KTC2874 A N 300M10A 20V
Q616	55157120	1 PC	TR-SLPLF KTC2874 A N 300M10A 20V
Q619	55133250	1 PC	TR-SLPLF 2SC1740S R N 150M10A 50V
Q620	55101930	1 PC	TR-SLPLF 2SA933ASR P -3.0A -20V
Q621	55101930	1 PC	TR-SLPLF 2SA933ASR P -3.0A -20V
Q622	55101930	1 PC	TR-SLPLF 2SA933ASR P -3.0A -20V
Q623	55101930	1 PC	TR-SLPLF 2SA933ASR P -3.0A -20V
IC607	55179610	1 PC	IC-SPECFUNC M35013 OSD
IC609	40440440	1 PC	IC-LIN BA7046 2856 A0 00

Resistors

R608	30944270	1 PC	RMGCFMIN 68R0 OHM +5% 100M10W
R609	80440410	1 PC	RMGCFMIN 7K5 OHM +5% 100M10W
R610	11066440	1 PC	RMGCFMIN 3K3 OHM +5% 100M10W
R612	80440410	1 PC	RMGCFMIN 7K5 OHM +5% 100M10W
R613	11066440	1 PC	RMGCFMIN 3K3 OHM +5% 100M10W
R614	30944270	1 PC	RMGCFMIN 68R0 OHM +5% 100M10W
R615	20471990	1 PC	RMGCFMIN 12K0 OHM +5% 100M10W
R618	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100M10W
R621	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R622	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R623	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R624	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R625	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R626	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R627	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R628	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R629	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R632	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100M10W
R633	30944270	1 PC	RMGCFMIN 68R0 OHM +5% 100M10W
R634	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100M10W
R635	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100M10W
R636	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100M10W
R637	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100M10W
R638	80440420	1 PC	RMGCFMIN 33K0 OHM +5% 100M10W
R639	30944270	1 PC	RMGCFMIN 68R0 OHM +5% 100M10W
R641	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100M10W
R642	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100M10W
R643	11066480	1 PC	RMGCFMIN 47K0 OHM +5% 100M10W
R644	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100M10W
R650	80440410	1 PC	RMGCFMIN 7K5 OHM +5% 100M10W
R651	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100M10W
R652	11066440	1 PC	RMGCFMIN 3K3 OHM +5% 100M10W
R653	30944270	1 PC	RMGCFMIN 68R0 OHM +5% 100M10W
R661	80440510	1 PC	RMGCFMIN 0 OHM +0% 100M10W
R662	80440510	1 PC	RMGCFMIN 0 OHM +0% 100M10W
R665	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100M10W
R666	80440430	1 PC	RMGCFMIN 43K0 OHM +5% 100M10W
R670	80440510	1 PC	RMGCFMIN 0 OHM +0% 100M10W
R677	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100M10W

Ref. Designator	Part Number	Qty	Description
R678	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R679	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R680	40438300	1 PC	RMGCFMIN 6K8 OHM +5% 100MIOW
R681	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R682	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R683	11066460	1 PC	RMGCFMIN 8K2 OHM +5% 100MIOW
R684	11066500	1 PC	RMGCFMIN 68K0 OHM +5% 100MIOW
R685	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R687	60444420	1 PC	RMGCFMIN 150K0 OHM +5% 100MIOW
R688	50886670	1 PC	RMGCFMIN 1M0 OHM +5% 100MIOW
R689	60444370	1 PC	RMGCFMIN 180R0 OHM +5% 100MIOW
R690	30944270	1 PC	RMGCFMIN 68R0 OHM +5% 100MIOW
R691	30944250	1 PC	RMGCFMIN 10R0 OHM +5% 100MIOW
R692	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
R693	60444370	1 PC	RMGCFMIN 180R0 OHM +5% 100MIOW
R694	50886670	1 PC	RMGCFMIN 1M0 OHM +5% 100MIOW
R696	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R697	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R698	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R699	20471990	1 PC	RMGCFMIN 12K0 OHM +5% 100MIOW
RC601	30944250	1 PC	RMGCFMIN 10R0 OHM +5% 100MIOW
RC602	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RC603	30944250	1 PC	RMGCFMIN 10R0 OHM +5% 100MIOW
RC604	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RC606	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RC607	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RC608	30944250	1 PC	RMGCFMIN 10R0 OHM +5% 100MIOW
RC609	30944250	1 PC	RMGCFMIN 10R0 OHM +5% 100MIOW
RC610	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RC612	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RC614	30944270	1 PC	RMGCFMIN 68R0 OHM +5% 100MIOW
RF601	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
RF602	30944250	1 PC	RMGCFMIN 10R0 OHM +5% 100MIOW
RF603	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
RF604	30944250	1 PC	RMGCFMIN 10R0 OHM +5% 100MIOW
RF606	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
RF608	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
RF610	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
RF611	80440370	1 PC	RMGCFMIN 150R0 OHM +5% 100MIOW
RF612	30944250	1 PC	RMGCFMIN 10R0 OHM +5% 100MIOW
RF615	30944260	1 PC	RMGCFMIN 22R0 OHM +5% 100MIOW
RF616	30944260	1 PC	RMGCFMIN 22R0 OHM +5% 100MIOW
RF617	30944260	1 PC	RMGCFMIN 22R0 OHM +5% 100MIOW
RS602	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS603	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS605	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS606	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS608	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS609	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS611	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS612	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS620	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS621	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS622	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
RS623	90574370	1 PC	RMGCFMIN 82R0 OHM +5% 100MIOW
R617	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
R619	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW

Ref. Designator	Part Number	Qty	Description
R640	20469460	1 PC	RCF 2K2 OHM +5% 250MIOW
R674	11059640	1 PC	RCF 1K0 OHM +5% 250MIOW
R686	50883030	1 PC	RCF 150K0 OHM +5% 250MIOW
R695	60441550	1 PC	RCF 330R0 OHM +5% 250MIOW

Miscellaneous

J025	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J031	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J032	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J033	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J040	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J045	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J058	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J063	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J072	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J073	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J076	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J077	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J079	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J081	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J083	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J086	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J089	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J090	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J091	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J099	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J101	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J116	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
J121	80440510	1 PC	RMGCFMIN 0 OHM +0% 100MIOW
L601	55179350	1 PC	LF 22U0H +10% 3.4 OHM 130.0A
L602	55179350	1 PC	LF 22U0H +10% 3.4 OHM 130.0A
L603	55179350	1 PC	LF 22U0H +10% 3.4 OHM 130.0A
TBD	55179350	1 PC	LF 22U0H +10% 3.4 OHM 130.0A
TBD1	55168840	1 PC	LF 47U0H +10% 5.8 OHM 70MI0A
B601	55179500	1 PC	LFBEAD 80.582OHM 100M0HZ FB-30 HC-3580
B602	55179500	1 PC	LFBEAD 80.582OHM 100M0HZ FB-30 HC-3580
B603	55179500	1 PC	LFBEAD 80.582OHM 100M0HZ FB-30 HC-3580
CN602	55175900	1 PC	WIRECONASY UNIQUE 4P 380MM UL1007 PVC DISCRETE 26 1
CN603	55175890	1 PC	WIRECONASY UNIQUE 4P 250MM UL1007 PVC DISCRETE 26 1
CP601	55174650	1 PC	CONN 2.0MM 16 MA R NAT SOCKET MOLEX 35237-1610 0 0
CP602	55123340	1 PC	CONN 2.0MM 8 MA ST NAT LW2002P08 0 0
G001	55244390	1 PC	WIRECONASY UNIQUE 1P 100MM UL1007 PVC DISCRETE 18 1
J034	55179510	1 PC	LFBEAD 44.1653OHM 100M0HZ FB-30 HC-3550
J050	55179510	1 PC	LFBEAD 44.1653OHM 100M0HZ FB-30 HC-3550
J051	55179510	1 PC	LFBEAD 44.1653OHM 100M0HZ FB-30 HC-3550
J052	55179510	1 PC	LFBEAD 44.1653OHM 100M0HZ FB-30 HC-3550
JA601	55149520	1 PC	CON DIN SCKT MIX SOCKET RCA-118JP1S
JA602	55149520	1 PC	CON DIN SCKT MIX SOCKET RCA-118JP1S
JA603	55149520	1 PC	CON DIN SCKT MIX SOCKET RCA-118JP1S
JA604	55149520	1 PC	CON DIN SCKT MIX SOCKET RCA-118JP1S
JA605	55149520	1 PC	CON DIN SCKT MIX SOCKET RCA-118JP1S
JA606	55149520	1 PC	CON DIN SCKT MIX SOCKET RCA-118JP1S
JA607	55149520	1 PC	CON DIN SCKT MIX SOCKET RCA-118JP1S
W601	20441180	1 PC	BCL 0.5MM TIN ANNEALED COPPER 10.0MM 8MM FIG 1 20322610
X601	55179470	1 PC	FILQZ 14M31818 HZ +30 PPM 30K0 OHM PARALLEL 22P0 F

Ref. Designator	Part Number	Qty	Description
--------------------	-------------	-----	-------------

Process PCB

Capacitors

C701	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C702	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C703	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C704	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C705	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C706	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C707	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C708	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C712	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C713	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C717	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C718	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C719	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C720	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C721	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C722	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C726	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C727	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C731	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C732	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C733	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C734	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C735	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C736	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C737	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C738	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C739	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C740	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C750	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C755	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C759	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C762	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C763	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C767	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C772	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C775	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C793	11059330	1 PC	CCCFMIN 2N2F +10% -10% 50.0V X7R
C794	11059330	1 PC	CCCFMIN 2N2F +10% -10% 50.0V X7R
C812	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C817	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C820	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C824	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C828	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C830	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C833	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C835	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C840	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C845	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C848	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C850	11059330	1 PC	CCCFMIN 2N2F +10% -10% 50.0V X7R
C855	50882360	1 PC	CCCFMIN 33P0F +5% -5% 50.0V NPO
C858	80436820	1 PC	CCCFMIN 680P0F +10% -10% 50.0V X7R
C860	80436820	1 PC	CCCFMIN 680P0F +10% -10% 50.0V X7R

Ref. Designator	Part Number	Qty	Description
C863	80436820	1 PC	CCCFMIN 680P0F +10% -10% 50.0V X7R
C865	80436820	1 PC	CCCFMIN 680P0F +10% -10% 50.0V X7R
C868	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C869	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C870	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C871	11058670	1 PC	CCCFMIN 100P0F +5% -5% 50.0V NPO
C709	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C710	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C711	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C714	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C715	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C716	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C723	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C724	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C725	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C728	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C729	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C730	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C741	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C742	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C743	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C744	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C745	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C746	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C747	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C749	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C751	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C752	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C754	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C756	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C757	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C758	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C760	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C761	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C764	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C765	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C768	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C769	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C770	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C771	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C773	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C774	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C776	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C777	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C778	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C779	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C780	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C781	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C782	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C783	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C784	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C787	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C788	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C789	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C792	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C795	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C796	10121000	1 PC	CE 10U0F +20% 16.0V 85C

Ref. Designator	Part Number	Qty	Description
C797	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C798	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C799	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C800	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C801	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C802	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C804	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C805	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C807	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C808	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C809	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C811	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C813	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C814	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C816	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C818	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C819	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C821	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C822	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C823	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C825	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C826	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C827	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C829	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C831	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C832	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C834	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C836	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C837	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C839	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C841	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C842	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C844	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C846	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C847	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C849	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C851	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C852	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C854	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C856	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C857	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C859	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C861	20269110	1 PC	CE 330U0F +20% 6.3V 85C
C862	10121000	1 PC	CE 10U0F +20% 16.0V 85C
C864	20267830	1 PC	CE 47U0F +20% 16.0V 85C
C866	20269110	1 PC	CE 330U0F +20% 6.3V 85C
C867	20267830	1 PC	CE 47U0F +20% 16.0V 85C

Semiconductors

IC703	55142720	1 PC	IC-LOWFREQ KIC9459F SOP24 TONE/VOL/BAL/MUTE
IC704	55142710	1 PC	IC-SWITCH KIC9162AF ANALOG SWITCH
IC705	55142680	1 PC	IC-SWITCH KIC9163AF ANALOG SWITCH
IC706	55179480	1 PC	IC-LOWFREQ TC9482F SOP28 TONE/VOL/BAL/MUTE
IC707	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC708	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC709	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP

Ref. Designator	Part Number	Qty	Description
IC710	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC711	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC712	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC713	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC714	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC715	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC716	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC717	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC718	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC719	55164460	1 PC	IC-OPERAMP NJM4556AM DUAL OP
IC720	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC721	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
IC722	55142610	1 PC	IC-OPERAMP NJM2068M DUAL OP
Q701	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q702	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q703	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q704	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q705	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q706	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q707	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q708	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q709	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q710	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q711	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q712	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q713	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q714	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q715	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q716	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q717	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q718	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q719	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q720	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q721	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q722	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q723	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q724	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q725	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q727	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q729	55138710	1 PC	TR-SLPSWA KTD1304 N 20V 300MI0A
Q730	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q731	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q733	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q734	55133180	1 PC	TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q735	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q736	55133190	1 PC	TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q732	55112030	1 PC	TR-M FET RA/TAD 2SK117Y N 300MI0W 14MI0A
IC701	55142750	1 PC	IC-SWITCH TC9273N-007 DIP28 ANALOG SWITCH
IC702	55142750	1 PC	IC-SWITCH TC9273N-007 DIP28 ANALOG SWITCH

Resistors

R701	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MI0W
R702	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MI0W
R703	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MI0W
R704	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MI0W
R705	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MI0W

Ref. Designator	Part Number	Qty	Description
R706	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R707	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R708	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R709	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R710	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R711	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R712	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R713	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R714	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R715	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R716	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R717	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R718	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R719	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R720	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R721	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R722	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R723	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R724	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R725	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R726	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R727	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R728	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R729	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R730	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R731	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R732	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R733	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R734	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R735	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R736	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R737	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R738	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R739	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R740	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R741	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R742	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R743	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R744	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R745	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R746	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R747	11066480	1 PC	RMGCFMIN 47K0 OHM +5% 100MIOW
R748	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R749	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R750	11066480	1 PC	RMGCFMIN 47K0 OHM +5% 100MIOW
R751	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R752	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R753	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R754	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R755	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R757	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R758	50886600	1 PC	RMGCFMIN 5K1 OHM +5% 100MIOW
R759	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R760	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R761	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R762	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R763	50886600	1 PC	RMGCFMIN 5K1 OHM +5% 100MIOW

Ref. Designator	Part Number	Qty	Description
R764	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R765	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R766	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R767	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R768	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R769	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R770	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R771	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R772	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R773	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R774	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R775	40438350	1 PC	RMGCFMIN 470K0 OHM +5% 100MIOW
R776	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R778	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R779	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R780	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R781	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R782	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R783	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R784	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R785	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R786	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R787	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R788	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R789	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R790	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R791	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R792	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R793	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R794	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R795	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R796	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R797	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R798	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R799	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R800	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R801	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R802	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R803	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R804	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R805	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R806	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R807	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R808	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R809	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R810	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R811	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R812	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R813	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R814	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R815	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R816	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R817	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R818	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R819	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R820	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R821	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW

Ref. Designator	Part Number	Qty	Description
R822	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R823	30944340	1 PC	RMGCFMIN 27K0 OHM +5% 100MIOW
R830	11066480	1 PC	RMGCFMIN 47K0 OHM +5% 100MIOW
R831	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R832	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R833	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R834	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R835	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R836	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R837	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R838	80440480	1 PC	RMGCFMIN 3M3 OHM +5% 100MIOW
R839	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R840	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R841	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R842	20471990	1 PC	RMGCFMIN 12K0 OHM +5% 100MIOW
R843	20471990	1 PC	RMGCFMIN 12K0 OHM +5% 100MIOW
R844	20471990	1 PC	RMGCFMIN 12K0 OHM +5% 100MIOW
R845	11066440	1 PC	RMGCFMIN 3K3 OHM +5% 100MIOW
R846	11066440	1 PC	RMGCFMIN 3K3 OHM +5% 100MIOW
R847	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R848	20471990	1 PC	RMGCFMIN 12K0 OHM +5% 100MIOW
R849	20471990	1 PC	RMGCFMIN 12K0 OHM +5% 100MIOW
R850	20471990	1 PC	RMGCFMIN 12K0 OHM +5% 100MIOW
R851	11066440	1 PC	RMGCFMIN 3K3 OHM +5% 100MIOW
R852	11066440	1 PC	RMGCFMIN 3K3 OHM +5% 100MIOW
R853	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R854	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R855	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R856	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R857	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R858	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R859	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R860	30944320	1 PC	RMGCFMIN 9K1 OHM +5% 100MIOW
R861	90574430	1 PC	RMGCFMIN 18K0 OHM +5% 100MIOW
R862	90574430	1 PC	RMGCFMIN 18K0 OHM +5% 100MIOW
R863	90574430	1 PC	RMGCFMIN 18K0 OHM +5% 100MIOW
R864	20471920	1 PC	RMGCFMIN 220R0 OHM +5% 100MIOW
R865	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R866	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R867	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R868	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R869	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R870	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R871	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R872	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R873	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R874	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R875	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R876	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R877	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R878	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R879	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R880	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R881	70434200	1 PC	RMGCFMIN 100R0 OHM +5% 100MIOW
R882	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R883	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R884	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R885	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW

Ref. Designator	Part Number	Qty	Description
R886	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R887	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R888	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R889	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R890	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R891	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R892	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R893	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R894	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R895	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R896	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R897	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R898	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R899	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R901	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R902	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R903	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R904	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R905	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R907	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R908	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R909	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R910	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R911	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R912	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R913	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R914	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R915	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R916	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R917	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R918	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R919	50886610	1 PC	RMGCFMIN 10K0 OHM +5% 100MIOW
R920	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R921	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R922	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R923	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R924	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R925	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R926	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R927	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R928	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R929	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R930	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R931	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R932	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R933	20471920	1 PC	RMGCFMIN 220R0 OHM +5% 100MIOW
R934	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R935	30944340	1 PC	RMGCFMIN 27K0 OHM +5% 100MIOW
R936	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R937	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R938	80440390	1 PC	RMGCFMIN 2K2 OHM +5% 100MIOW
R939	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R940	20471920	1 PC	RMGCFMIN 220R0 OHM +5% 100MIOW
R941	30944320	1 PC	RMGCFMIN 9K1 OHM +5% 100MIOW
R942	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R943	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R944	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW

Ref. Designator	Part Number	Qty	Description
R945	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R946	20472020	1 PC	RMGCFMIN 180K0 OHM +5% 100MIOW
R947	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R948	30944340	1 PC	RMGCFMIN 27K0 OHM +5% 100MIOW
R949	20471920	1 PC	RMGCFMIN 220R0 OHM +5% 100MIOW
R950	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R951	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R952	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R953	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R954	80440400	1 PC	RMGCFMIN 5K6 OHM +5% 100MIOW
R955	50886630	1 PC	RMGCFMIN 100K0 OHM +5% 100MIOW
R956	90574430	1 PC	RMGCFMIN 18K0 OHM +5% 100MIOW
R957	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R958	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R959	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R960	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R961	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R962	20471950	1 PC	RMGCFMIN 1K0 OHM +5% 100MIOW
R963	50886550	1 PC	RMGCFMIN 560R0 OHM +5% 100MIOW
R964	50886550	1 PC	RMGCFMIN 560R0 OHM +5% 100MIOW
R965	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R966	90574400	1 PC	RMGCFMIN 470R0 OHM +5% 100MIOW
R967	30944340	1 PC	RMGCFMIN 27K0 OHM +5% 100MIOW
R968	30944340	1 PC	RMGCFMIN 27K0 OHM +5% 100MIOW
R969	90574430	1 PC	RMGCFMIN 18K0 OHM +5% 100MIOW
R970	90574430	1 PC	RMGCFMIN 18K0 OHM +5% 100MIOW

Miscellaneous

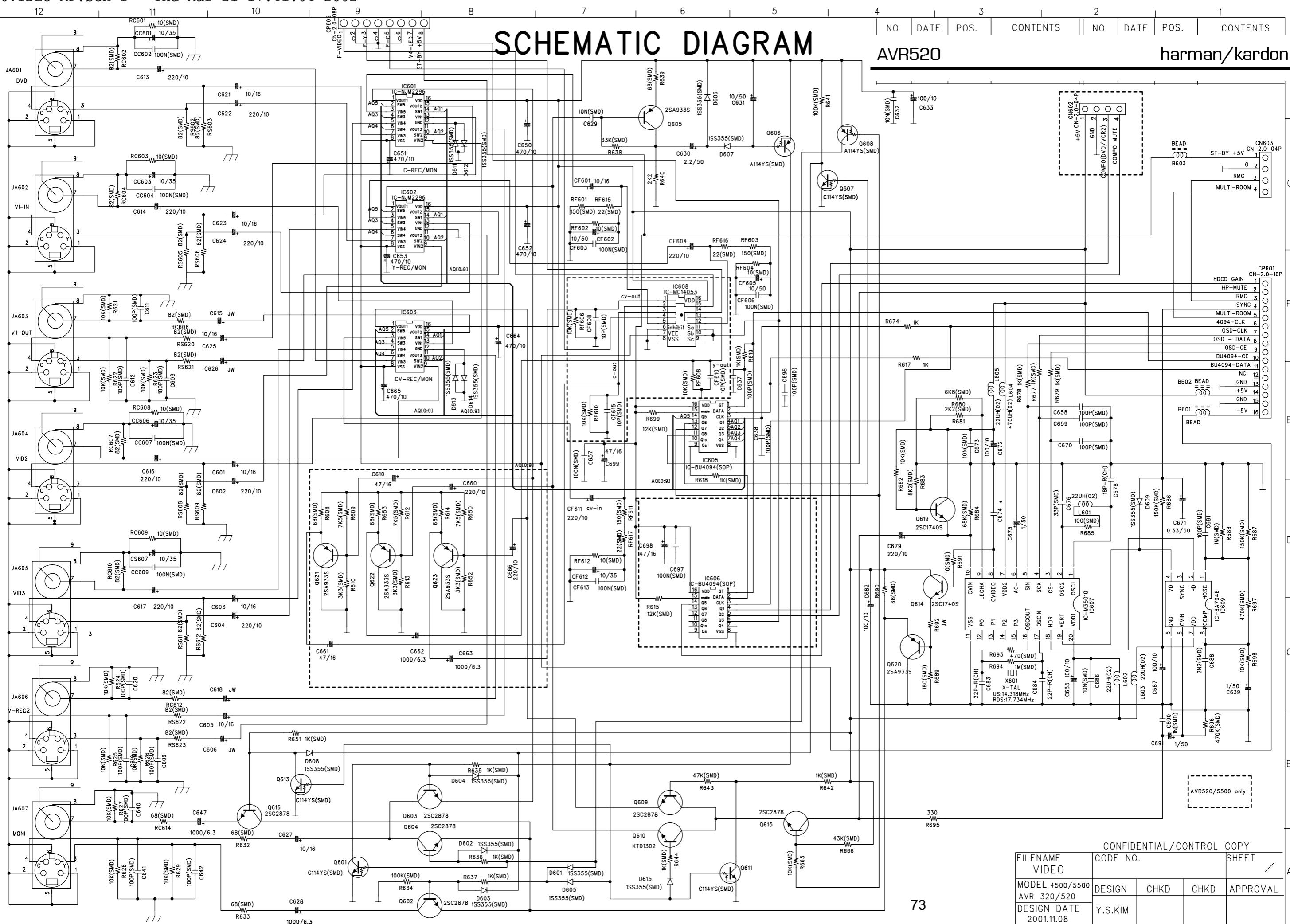
CN408	55125070	1 PC	CONN 2.0MM 15 MA R NAT MOLEX 35237-1510 0 0
CN409	55125070	1 PC	CONN 2.0MM 15 MA R NAT MOLEX 35237-1510 0 0
CN410	55125070	1 PC	CONN 2.0MM 15 MA R NAT MOLEX 35237-1510 0 0
CN411	55125070	1 PC	CONN 2.0MM 15 MA R NAT MOLEX 35237-1510 0 0
CP205	55123310	1 PC	CONN 2.0MM 4 MA ST NAT LW2002P04 0 0
CP206	55090050	1 PC	CONN 2.0MM 10 MA ST NAT LW2002P10 0 0
CP403	55090080	1 PC	CONN 2.0MM 3 MA ST NAT LW2002P03 0 0
CP404	55090060	1 PC	CONN 2.0MM 7 MA ST NAT LW2002P07 0 0
CP405	55090100	1 PC	CONN 2.0MM 12 MA ST NAT LW2002P12 0 0
JK701	55088230	1 PC	CON PHONO SCKT RCA-606P 6 PINS
JK702	55176330	1 PC	CON PHONO SCKT RCA 4P JW4104RS GND
JK703	55176330	1 PC	CON PHONO SCKT RCA 4P JW4104RS GND

THE AVR520 TUNER IS A NON-SERVICEABLE MODULE - PART#55177300XX

SCHEMATIC DIAGRAM

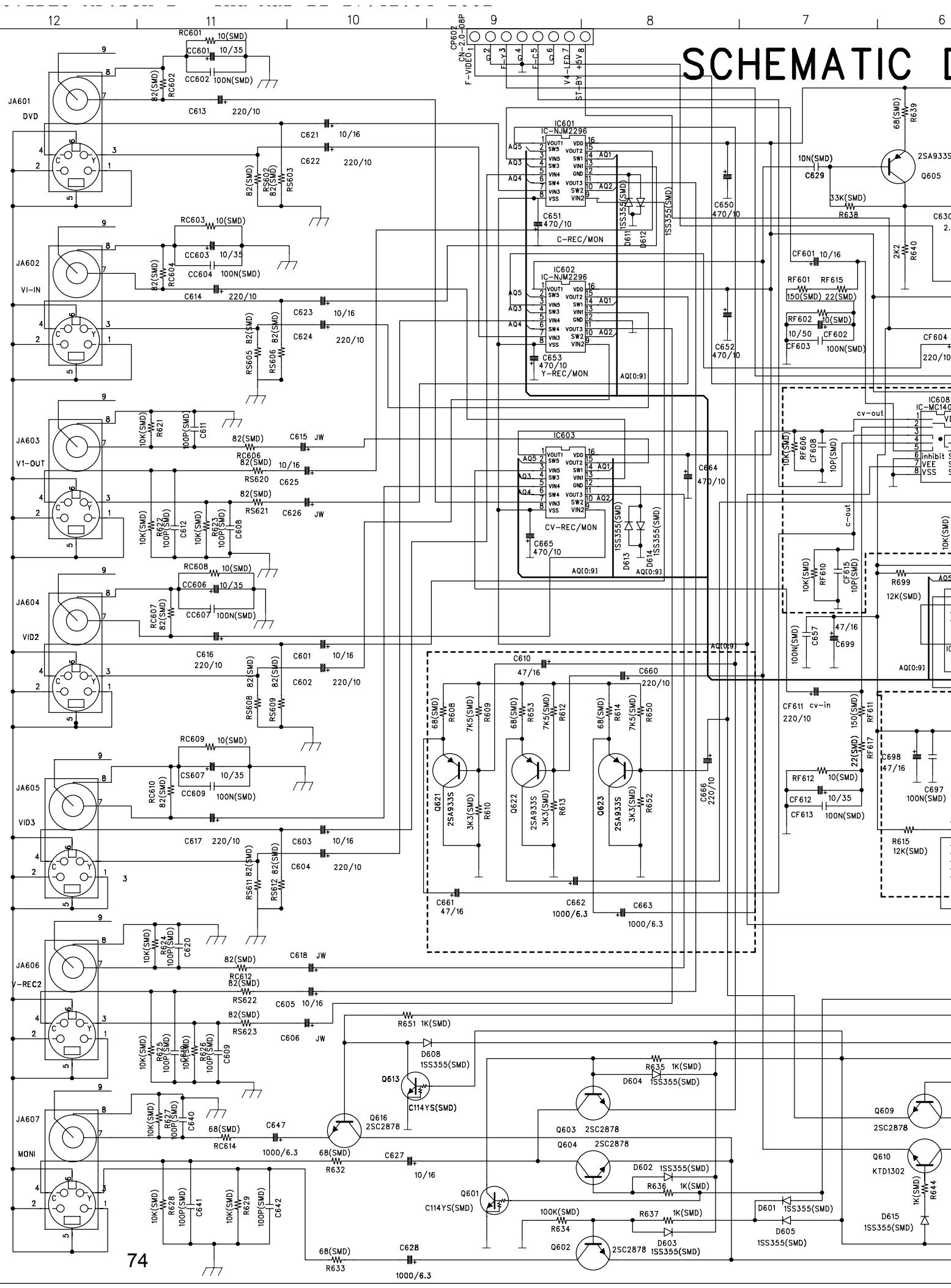
AVR520

harman/kardon



FILENAME	CODE NO.	SHEET
VIDEO		
MODEL 4500/5500		
AVR-320/520		
DESIGN DATE		
2001.11.08	Y.S.KIM	APPROVAL

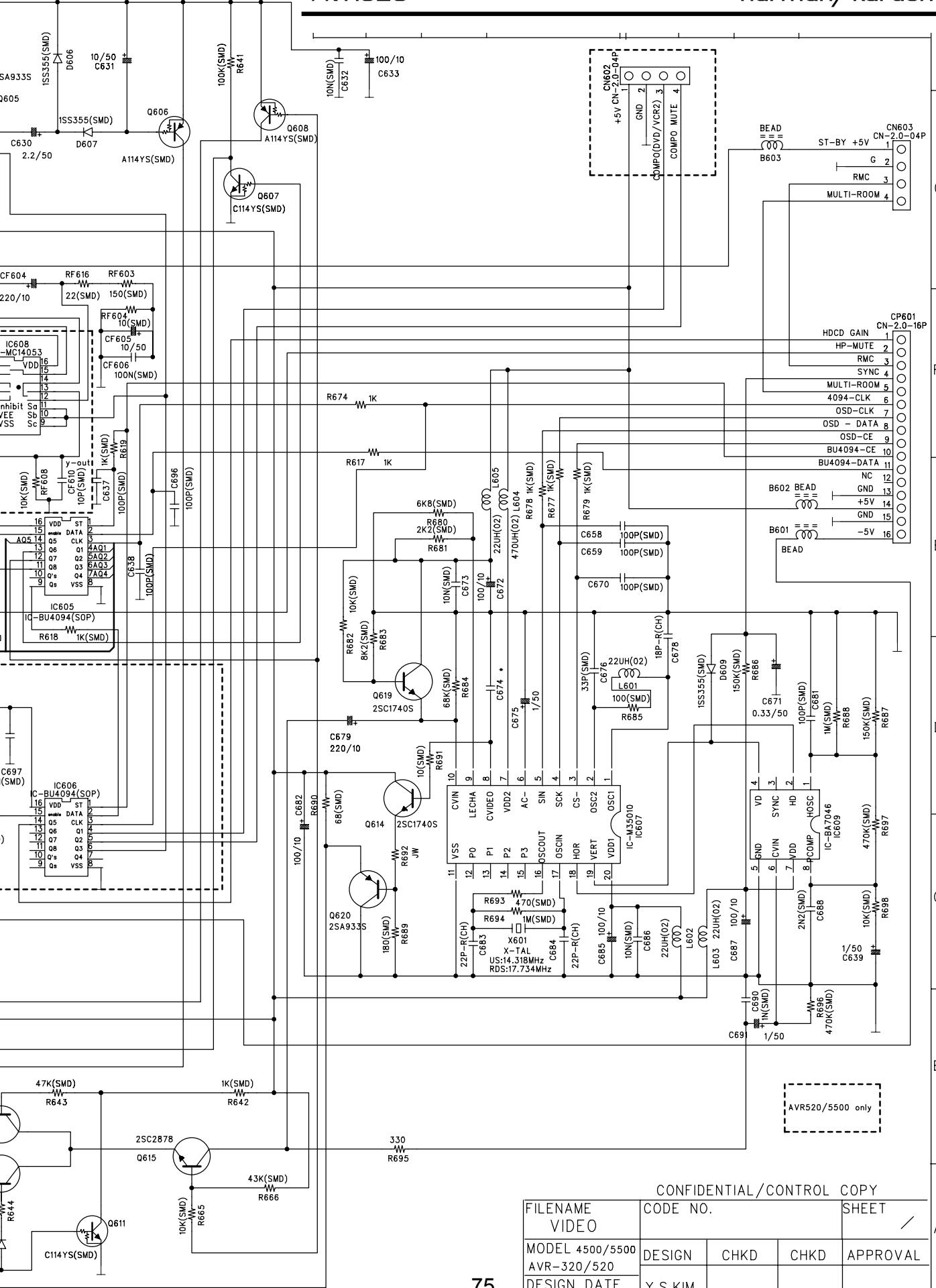
SCHEMATIC



DIAGRAM

AVR520

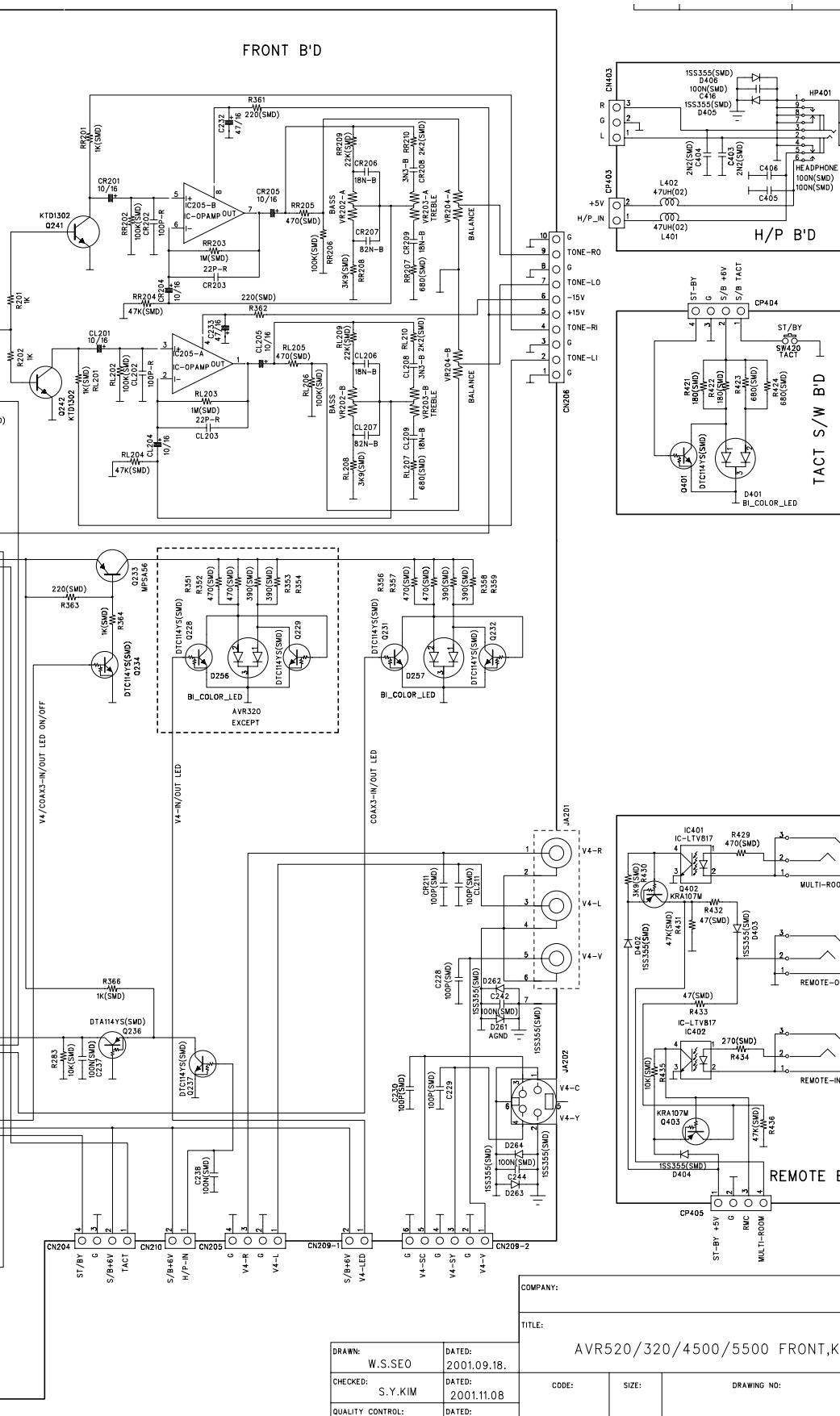
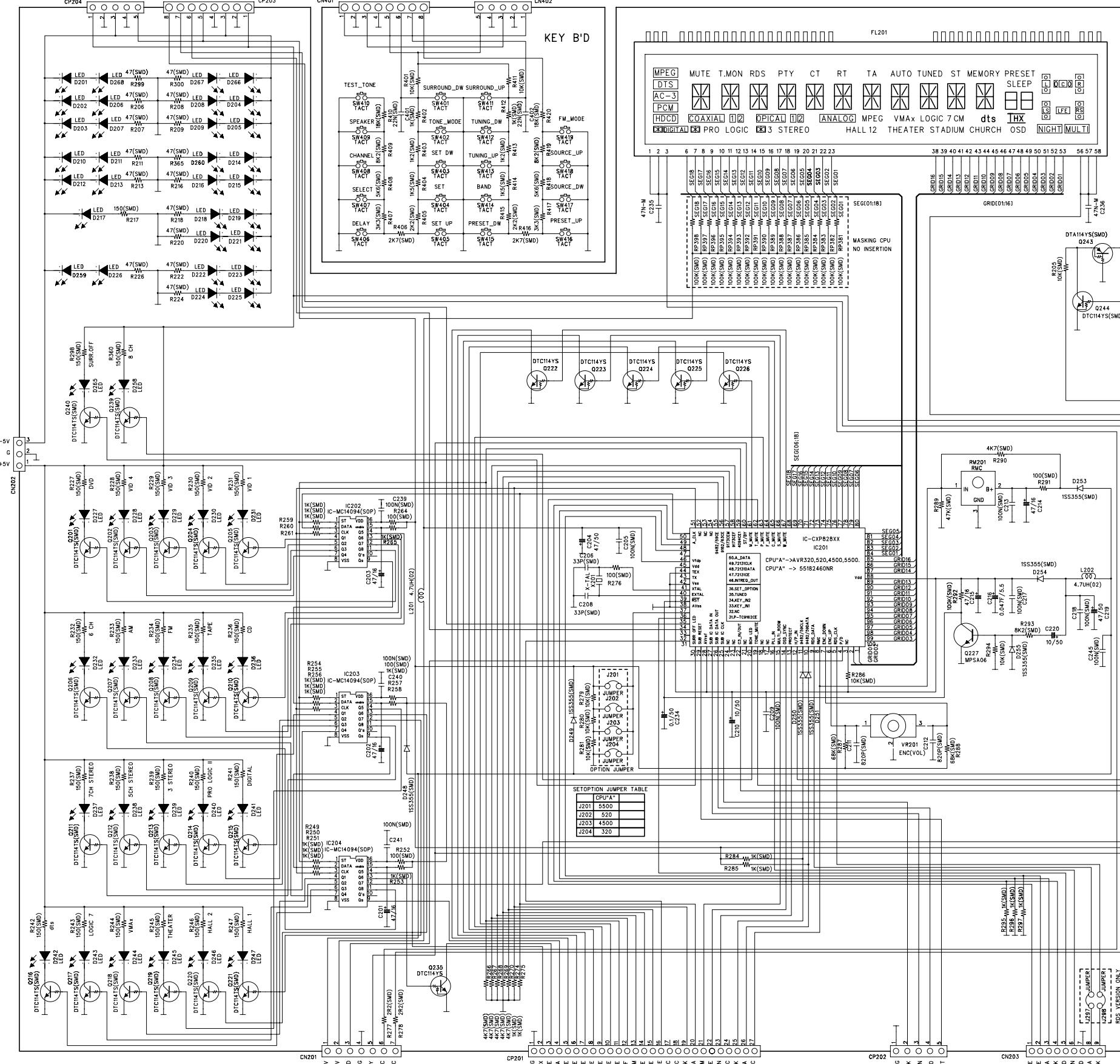
harman/kardon



SCHEMATIC DIAGRAM

AVR520

harman/kardon

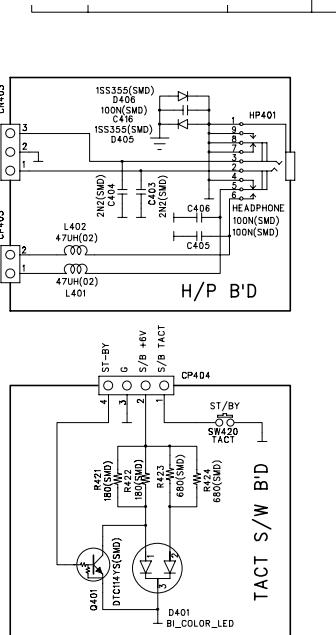
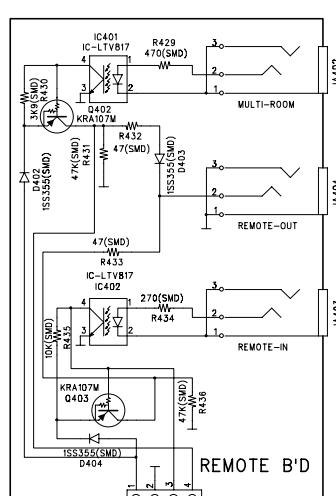


APPROVED: DATE:

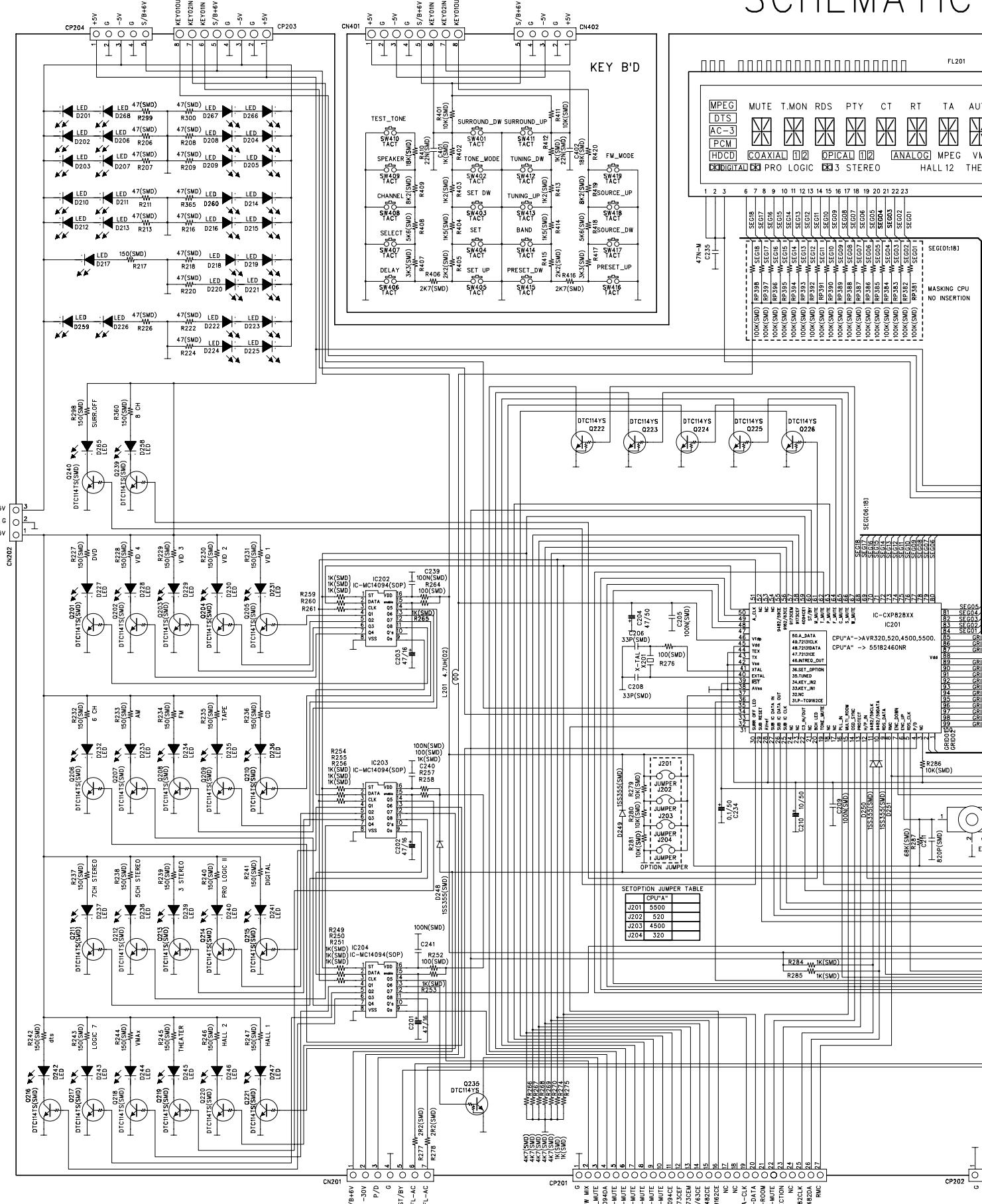
TITLE: AVR520/320/4500/5500 FRONT,KEY

DRAWING NO:

REV:



SCHEMATIC

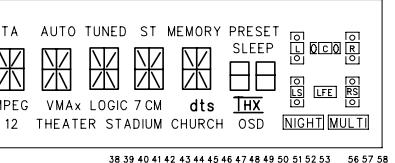
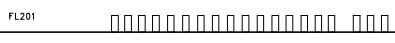


C DIAGRAM

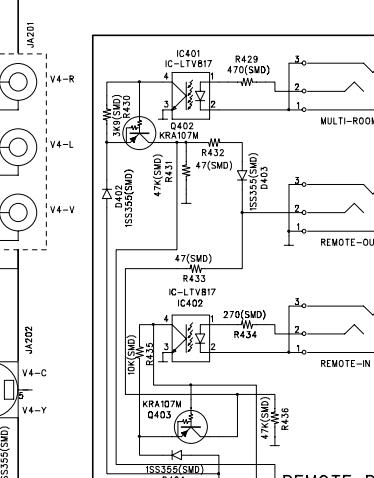
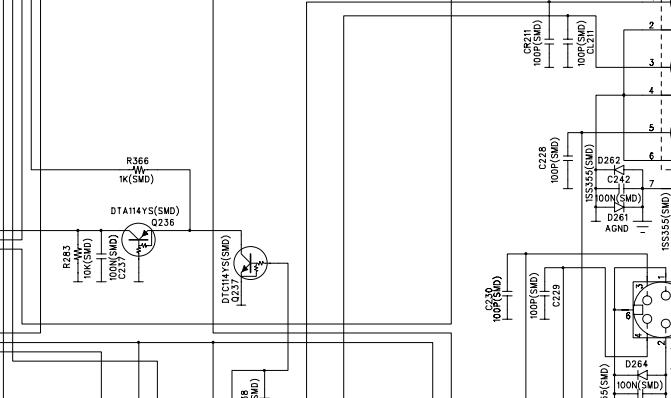
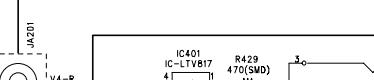
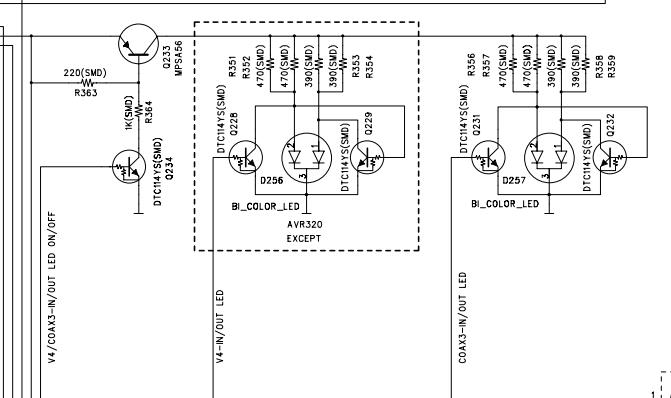
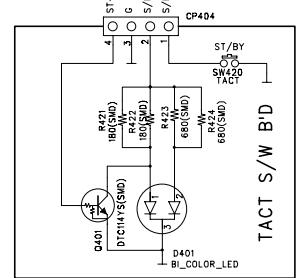
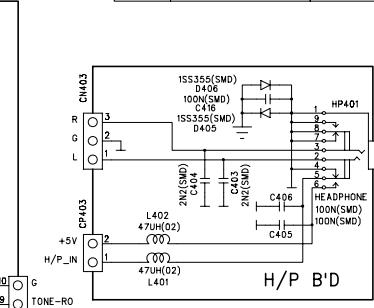
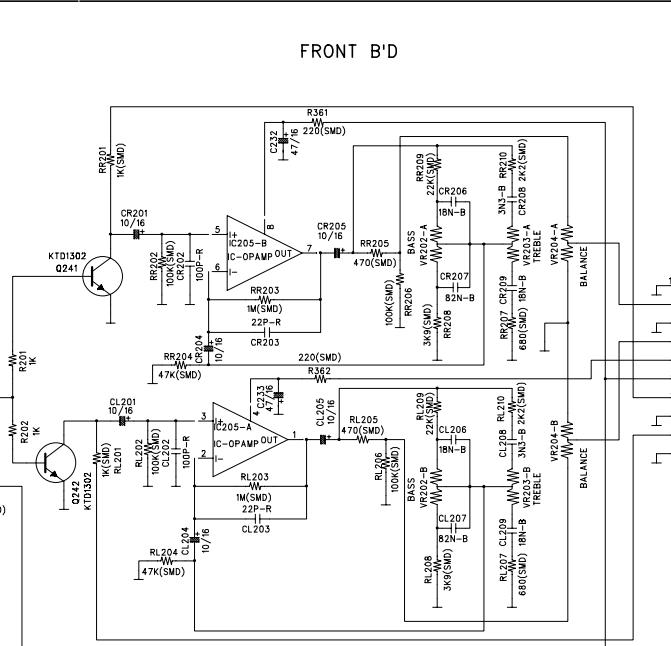
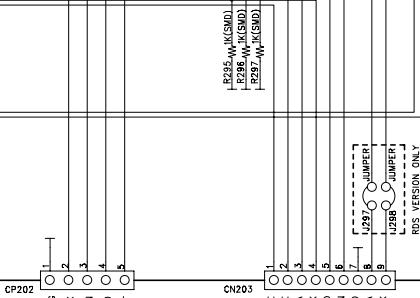
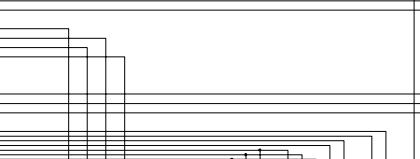
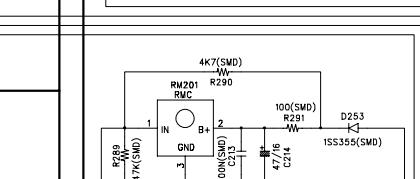
AVR520

harman/kardon

PROVED:	DATE:



01:18
KING CPU
INSERTION



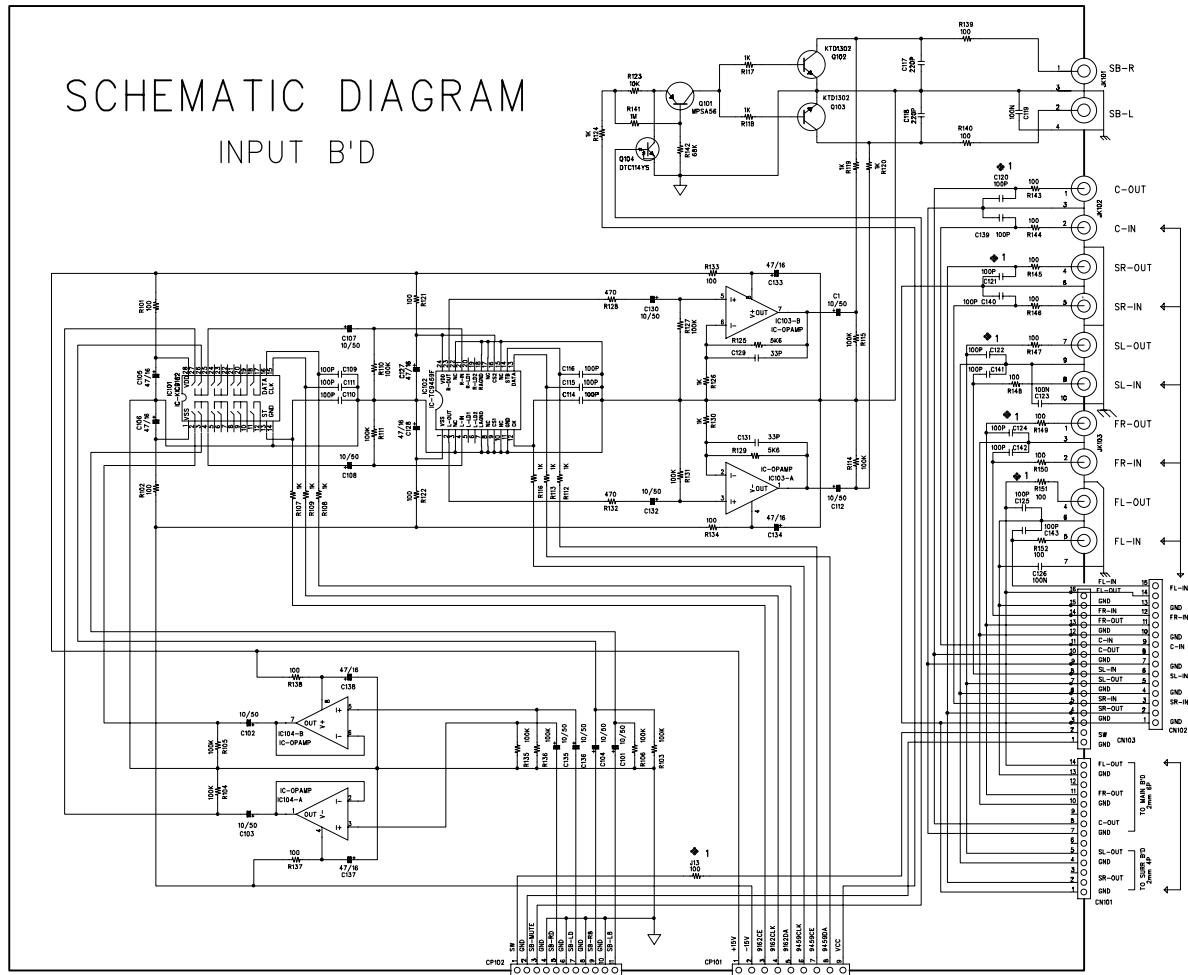
COMPANY:			
TITLE:	AVR520/320/4500/5500 FRONT,KEY		
DRAWN:	W.S.SEO	DATED:	2001.09.18.
CHECKED:	S.Y.KIM	DATED:	2001.11.08
QUALITY CONTROL:		DATED:	
RELEASED:		DATED:	
SCALE:		DRAWING NO:	
		REV:	

AVR520

harman/kardon

REVISION RECORD			
REV:	ECO NO:	APPROVED:	DATE:

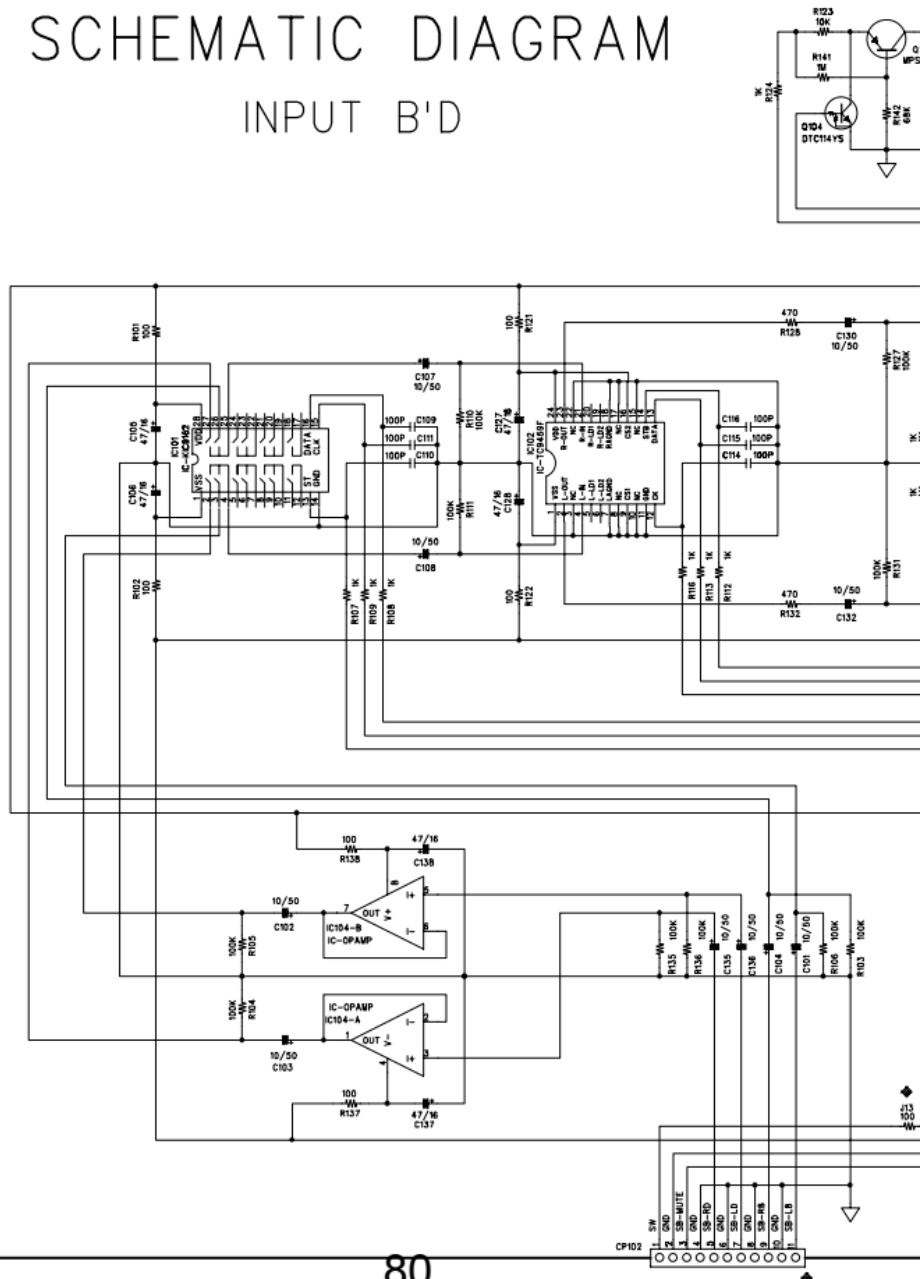
SCHEMATIC DIAGRAM
INPUT B'D



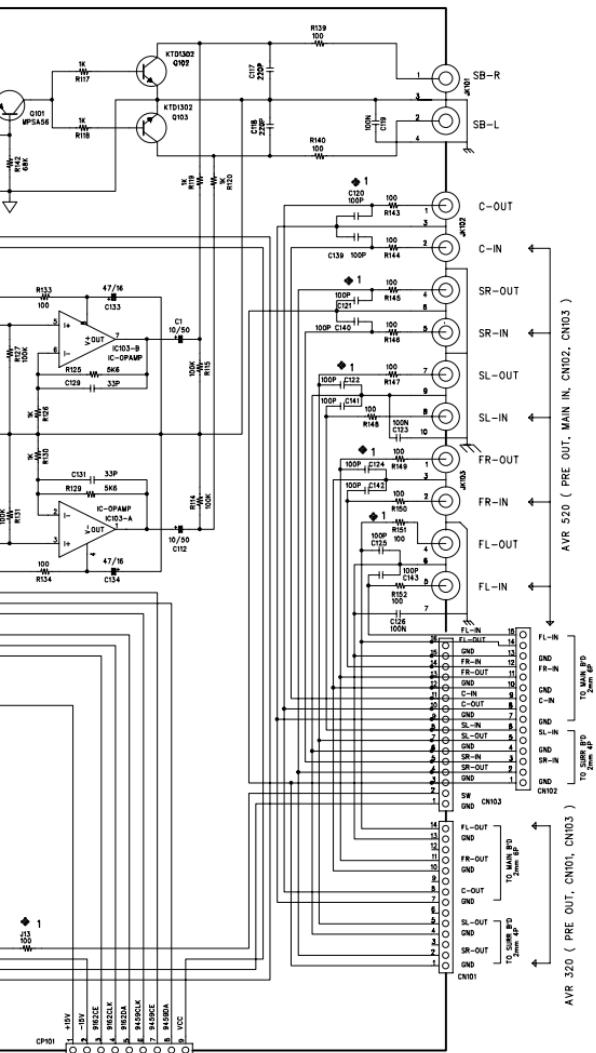
◆ 1 OPTION				
MODEL	AVR320	AVR520	AVR4500	AVR5500
J13	JUMPER	JUMPER	1000m	1000m
R143,R145,R147				
R144,R146,R148				
R160,R162	X	JUMPER	X	JUMPER
C12,C13,C122				
C12,C125	X	X	100P	100P
C139,C140,C141	X	X	X	100P
C142,C143				

SCHEMATIC DIAGRAM

INPUT B'D



LTN	ECO NO:	APPROVED:	DATE:



◆ 1 OPTION

MODEL	AVR320	AVR520	AVR4500	AVR5500
J15	JUMPER	JUMPER	1000m	1000m
R143,R145,R147	JUMPER	JUMPER	1000m	JUMPER
R149,R151				
R144,R146,R148	X	JUMPER	X	JUMPER
C120,C121,C122				
C124,C125	X	X	100P	100P
C139,C140,C141				
C142,C143	X	X	X	100P

AVR 520 (PRE OUT, MAIN IN, CN02, CN03)

AVR 320 (PRE OUT, CN101, CN103)

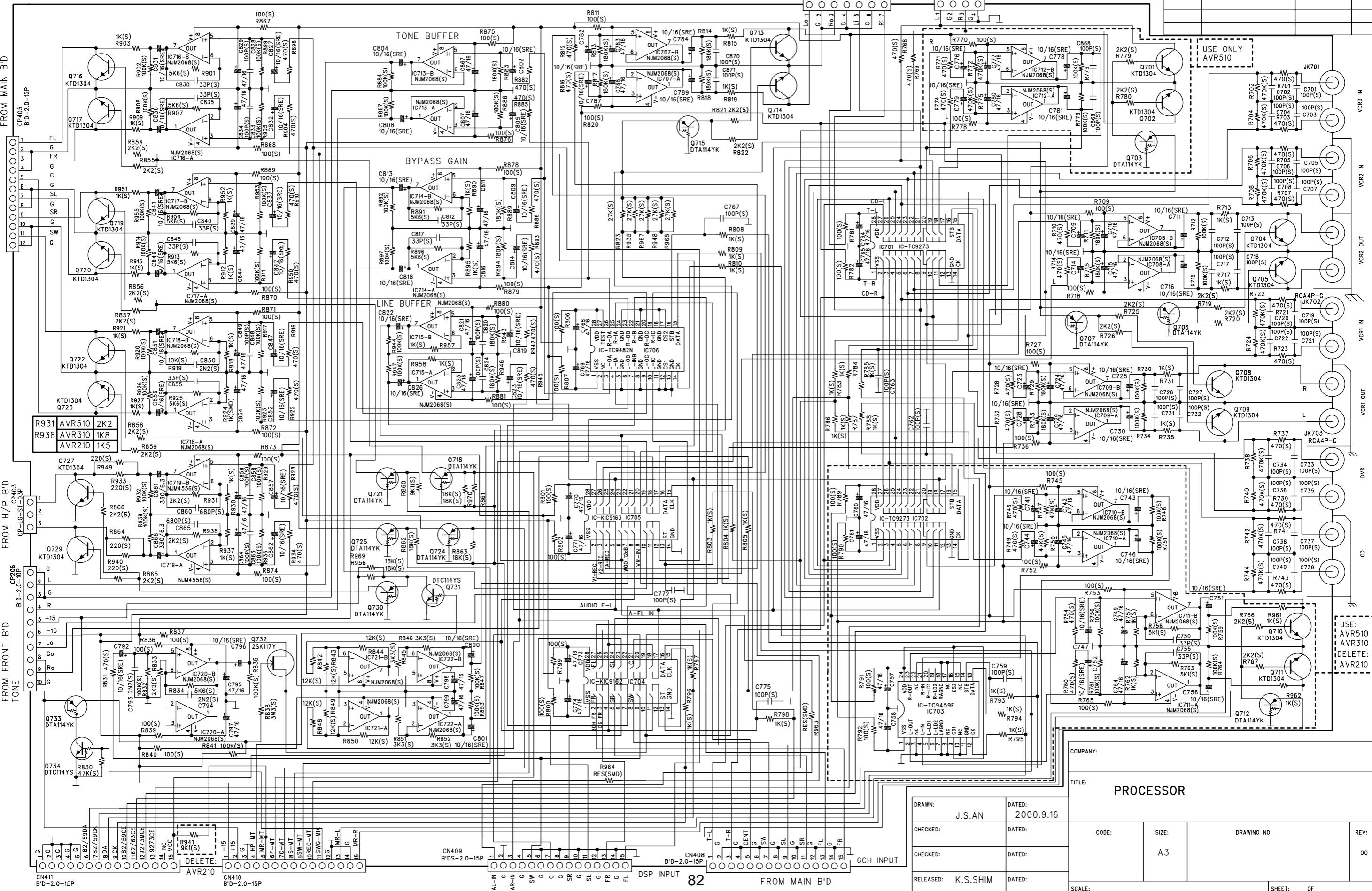
T0 2mm SPD
T0 2mm SPD
T0 2mm SPD
T0 2mm SPD

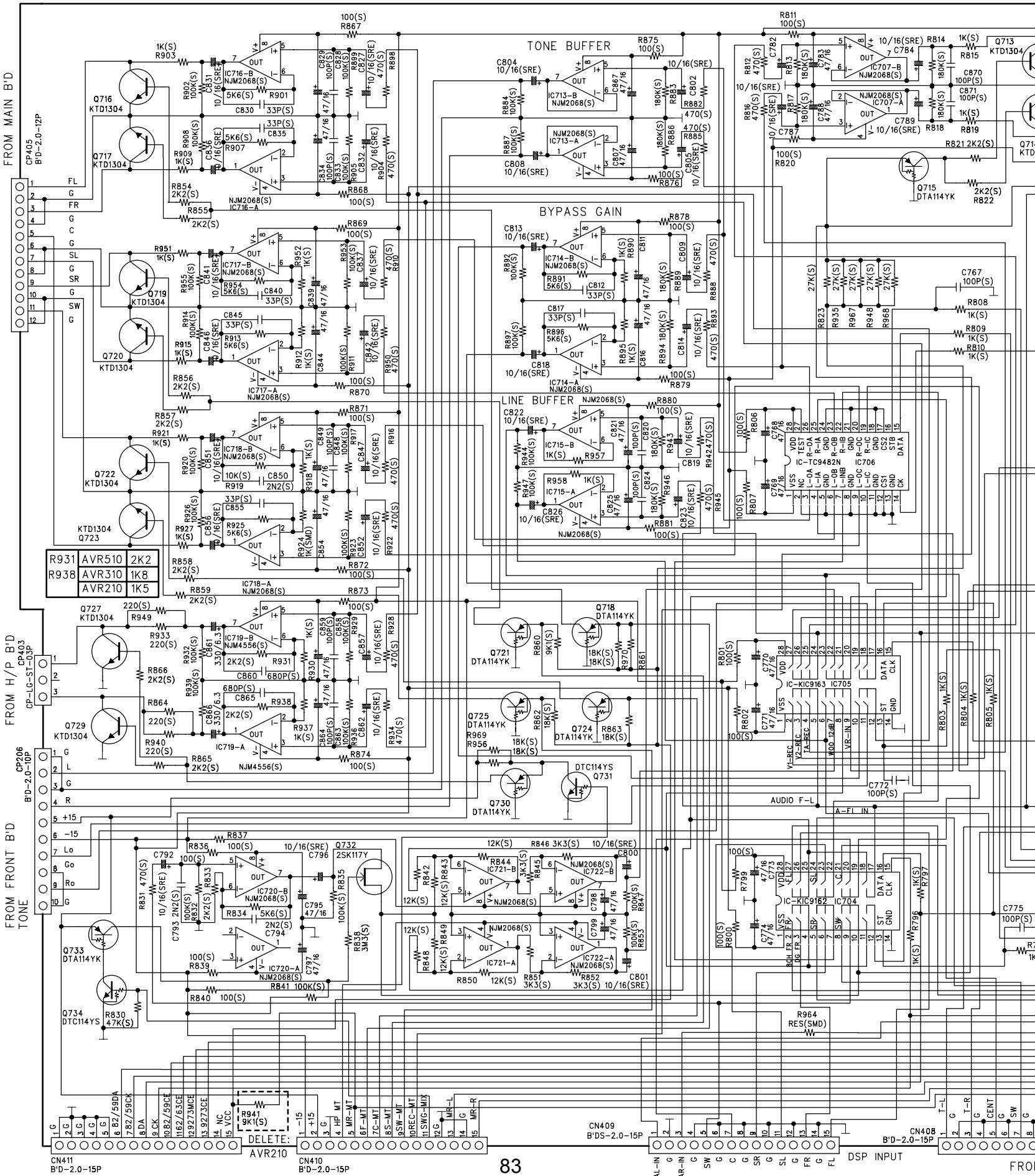
COMPANY:	
TITLE: AVR520/320/4500/5500 INPUT	
DRAWN: W.S.SEO	DATED: 2001.09.18.
CHECKED: S.Y.KIM	DATED: 2002.01.04
QUALITY CONTROL:	DATED:
RELEASED:	DATED:
SCALE:	SHEET: OF

TAPE B'D VID4 I/O
CP404 FROM FRONT B'D
CP205

MP

REVISION RECORD



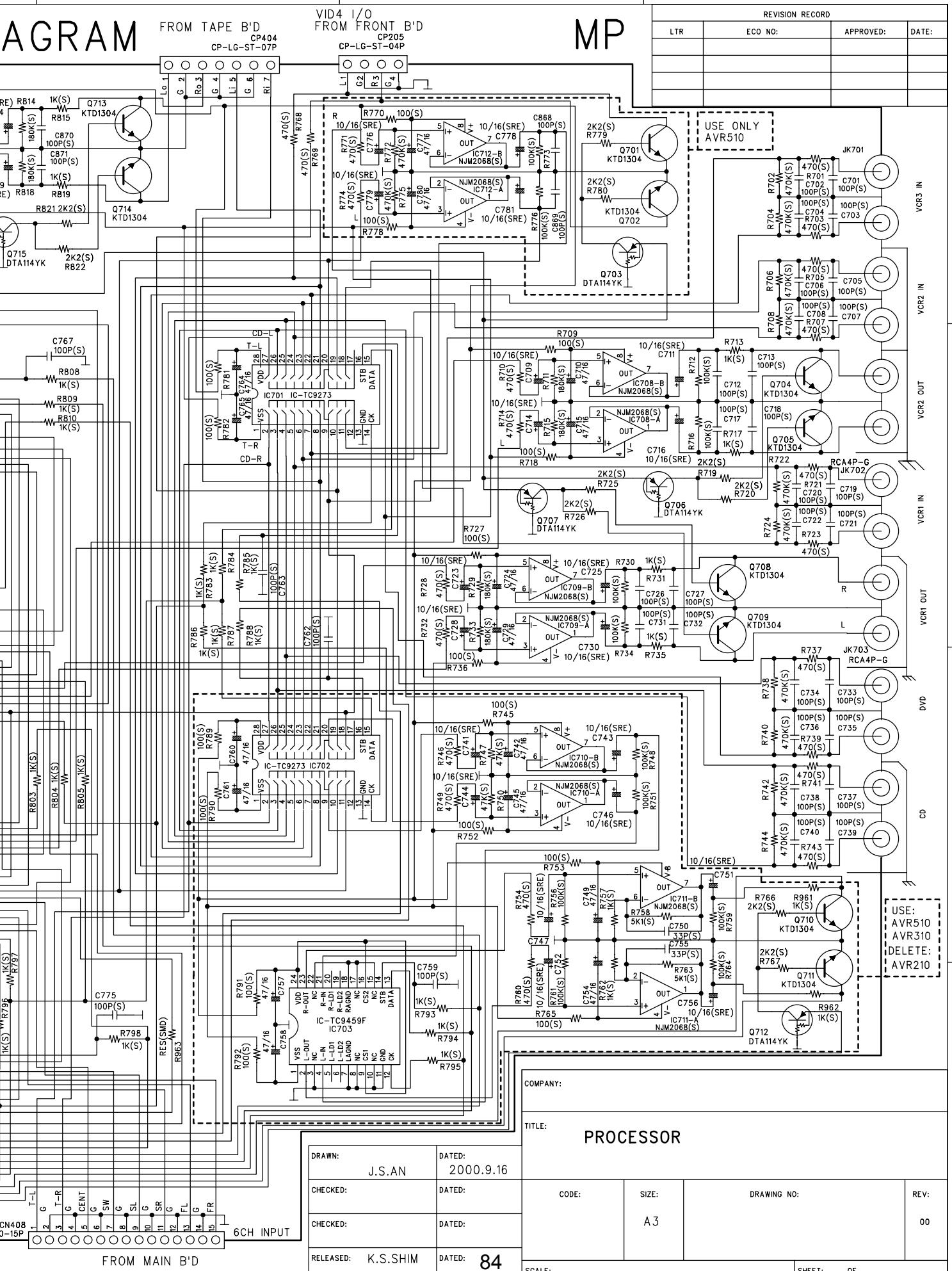


AGRAM

3

2

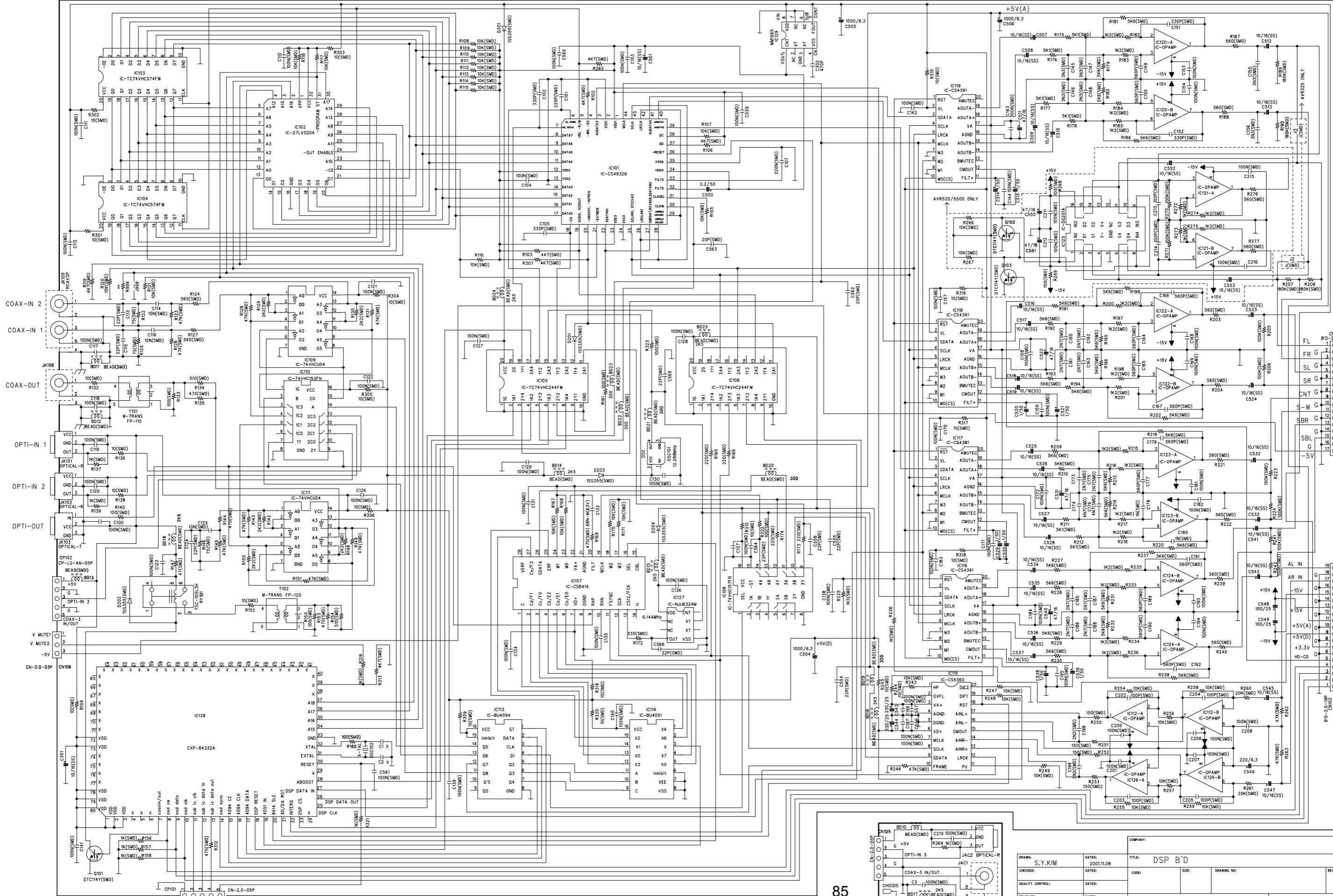
1

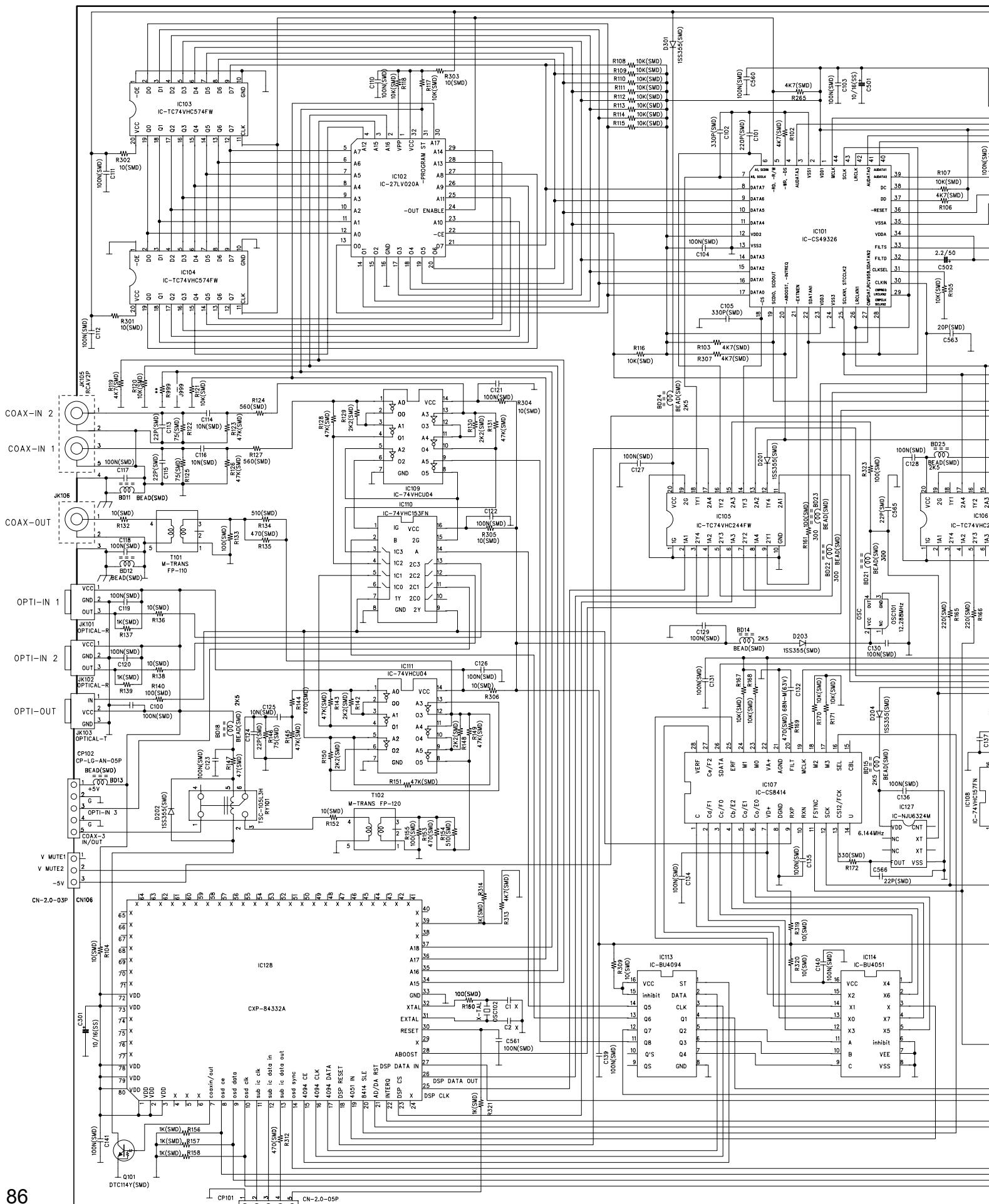


AVR520

SCHEMATIC DIAGRAM AVR320/520/4500/5500 DSP B'D

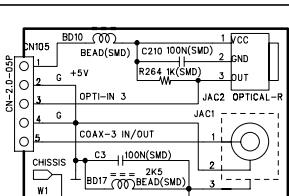
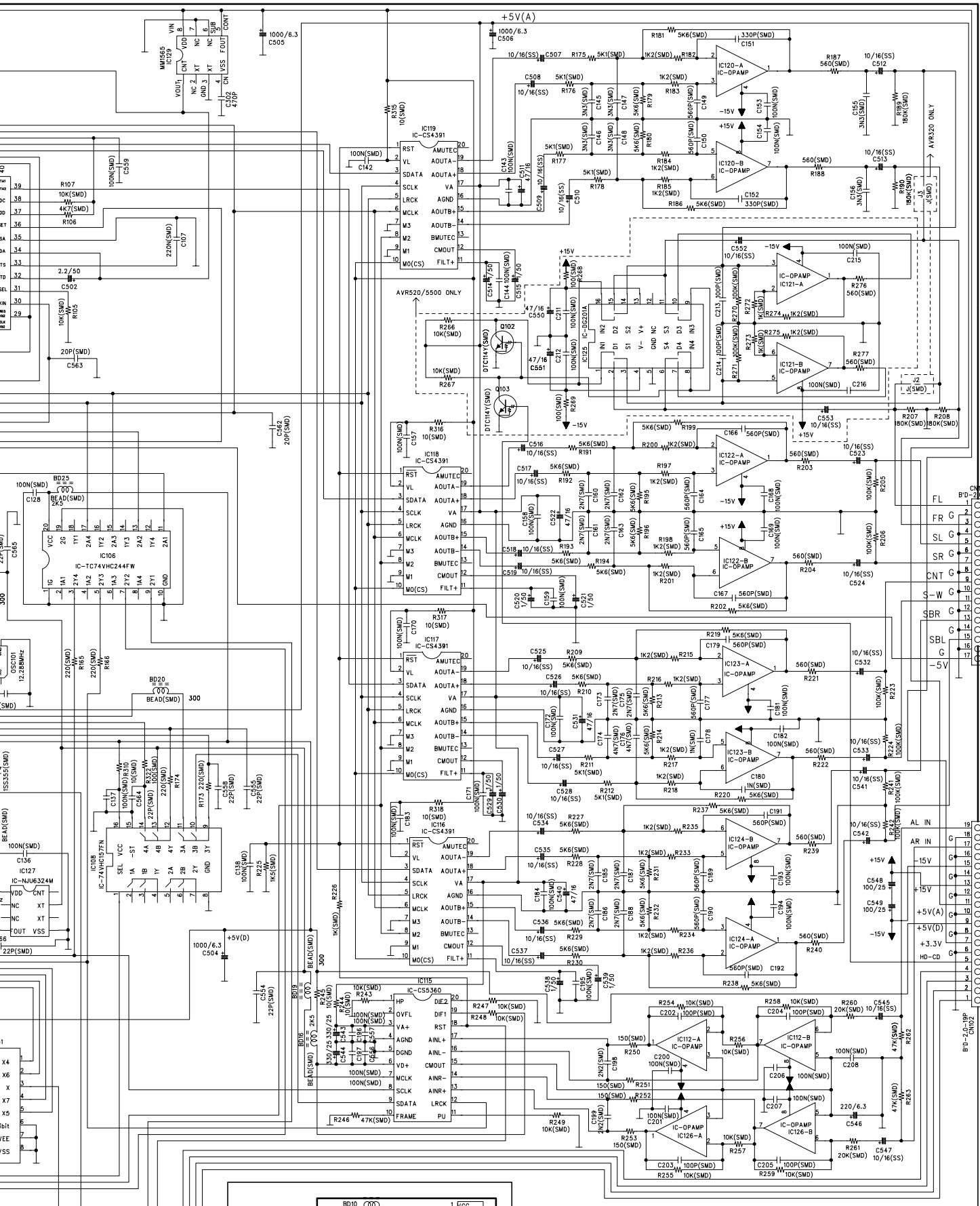
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:





RAM AVR320/520/4500/5500 DSP B'D

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY:	DRAWN:	S.Y.KIM	DATED:	2001.11.08	TITLE:	DSP B'D
CHECKED:	DATED:				CODE:	
QUALITY CONTROL:	DATED:				SIZE:	
RELEASED:	DATED:				DRAWING NO:	
					SCALE:	

D

C

B

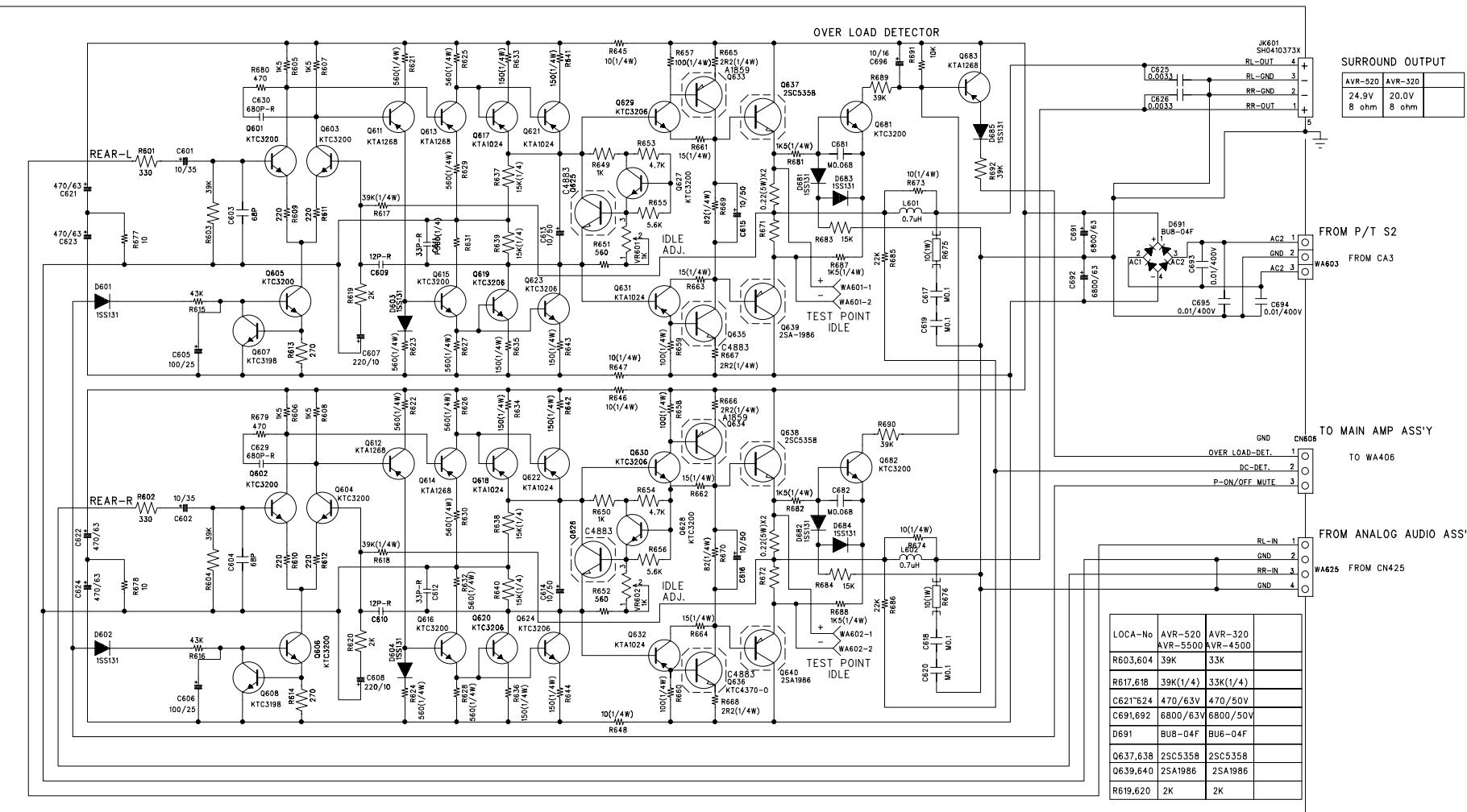
A

SURROUND AMP SCHEMATIC DIAGRAM

AVR520

harman/kardon

REAR AMP ASS'Y



OVER LOAD DETECTOR

TEST POINT IDLE

AC2 1

AC2 2

AC2 3

AC2 4

AC2 5

AC2 6

AC2 7

AC2 8

AC2 9

AC2 10

AC2 11

AC2 12

AC2 13

AC2 14

AC2 15

AC2 16

AC2 17

AC2 18

AC2 19

AC2 20

AC2 21

AC2 22

AC2 23

AC2 24

AC2 25

AC2 26

AC2 27

AC2 28

AC2 29

AC2 30

AC2 31

AC2 32

AC2 33

AC2 34

AC2 35

AC2 36

AC2 37

AC2 38

AC2 39

AC2 40

AC2 41

AC2 42

AC2 43

AC2 44

AC2 45

AC2 46

AC2 47

AC2 48

AC2 49

AC2 50

AC2 51

AC2 52

AC2 53

AC2 54

AC2 55

AC2 56

AC2 57

AC2 58

AC2 59

AC2 60

AC2 61

AC2 62

AC2 63

AC2 64

AC2 65

AC2 66

AC2 67

AC2 68

AC2 69

AC2 70

AC2 71

AC2 72

AC2 73

AC2 74

AC2 75

AC2 76

AC2 77

AC2 78

AC2 79

AC2 80

AC2 81

AC2 82

AC2 83

AC2 84

AC2 85

AC2 86

AC2 87

AC2 88

AC2 89

AC2 90

AC2 91

AC2 92

AC2 93

AC2 94

AC2 95

AC2 96

AC2 97

AC2 98

AC2 99

AC2 100

AC2 101

AC2 102

AC2 103

AC2 104

AC2 105

AC2 106

AC2 107

AC2 108

AC2 109

AC2 110

AC2 111

AC2 112

AC2 113

AC2 114

AC2 115

AC2 116

AC2 117

AC2 118

AC2 119

AC2 110

AC2 111

AC2 112

AC2 113

AC2 114

AC2 115

AC2 116

AC2 117

AC2 118

AC2 119

AC2 110

AC2 111

AC2 112

AC2 113

AC2 114

AC2 115

AC2 116

AC2 117

AC2 118

AC2 119

AC2 110

AC2 111

AC2 112

AC2 113

AC2 114

AC2 115

AC2 116

AC2 117

AC2 118

AC2 119

AC2 110

AC2 111

AC2 112

AC2 113

AC2 114

AC2 115

AC2 116

AC2 117

AC2 118

AC2 119

AC2 110

AC2 111

AC2 112

AC2 113

AC2 114

AC2 115

AC2 116

AC2 117

AC2 118

AC2 119

AC2 110

AC2 111

AC2 112

AC2 113

AC2 114

AC2 115

AC2 116

AC2 117

AC2 118

AC2 119

AC2 110

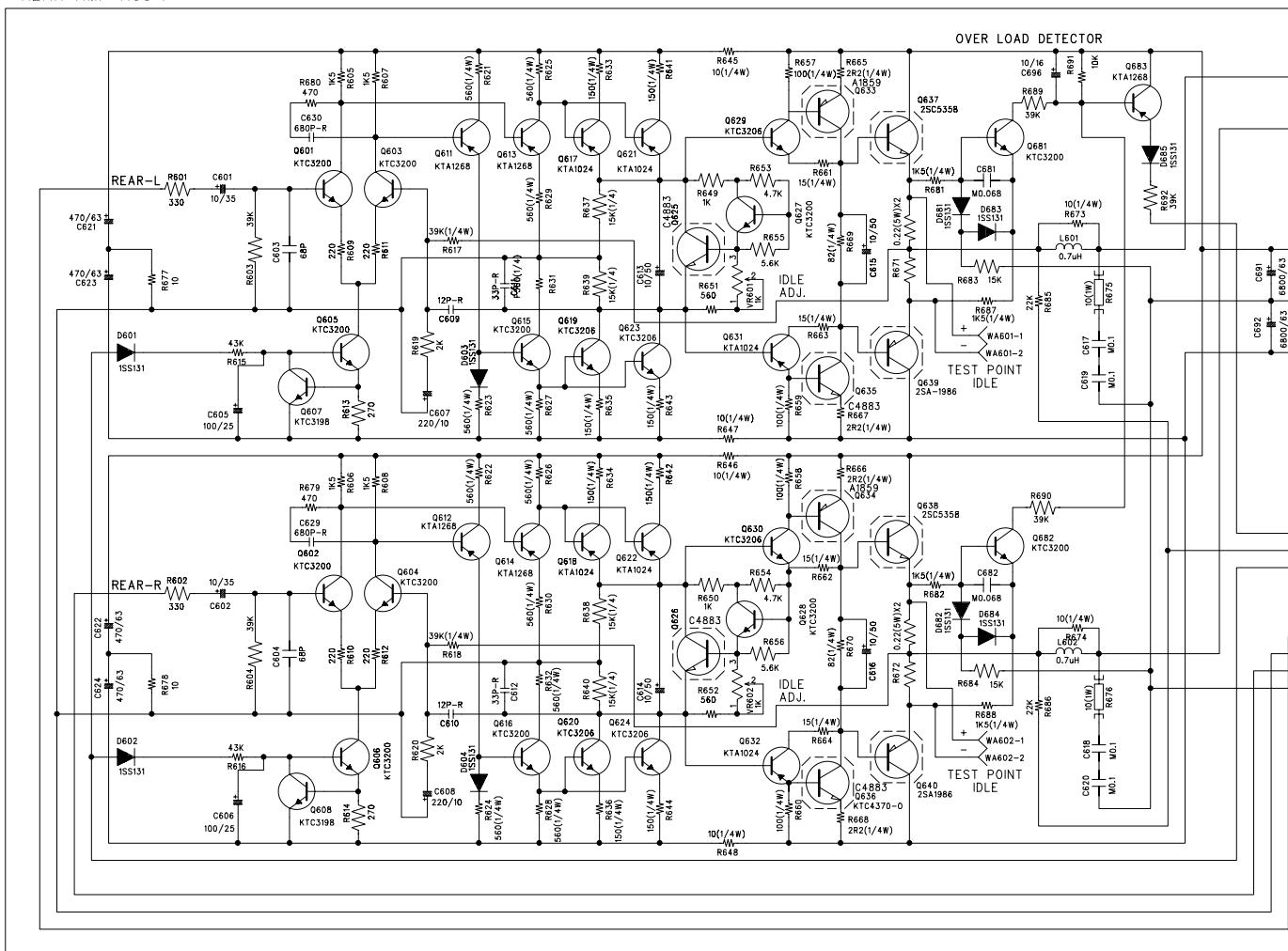
AC2 111

AC2 112

AC2 113

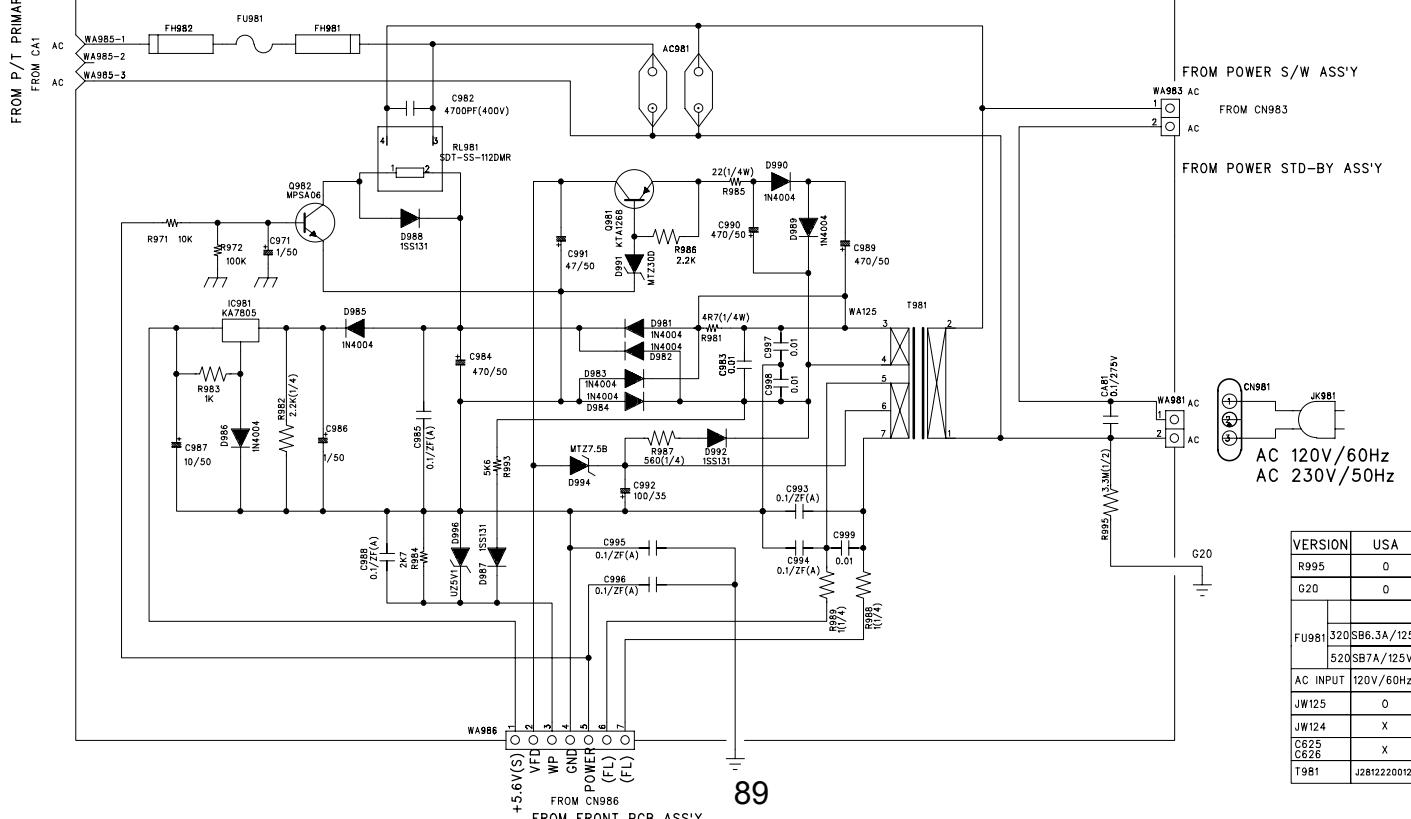
SURROUND AMP SCHEMATIC

REAR AMP ASS'Y



LOCA-No	AVR-52A
R603,604	39K
R617,618	39K(1/4)
C621*624	470/63V
C691,692	6800/63V
D691	BUB-04F
Q637,638	2SC5358
Q639,640	2SA1986
R619,620	2K

SUB POWER SUPPLY ASS'Y

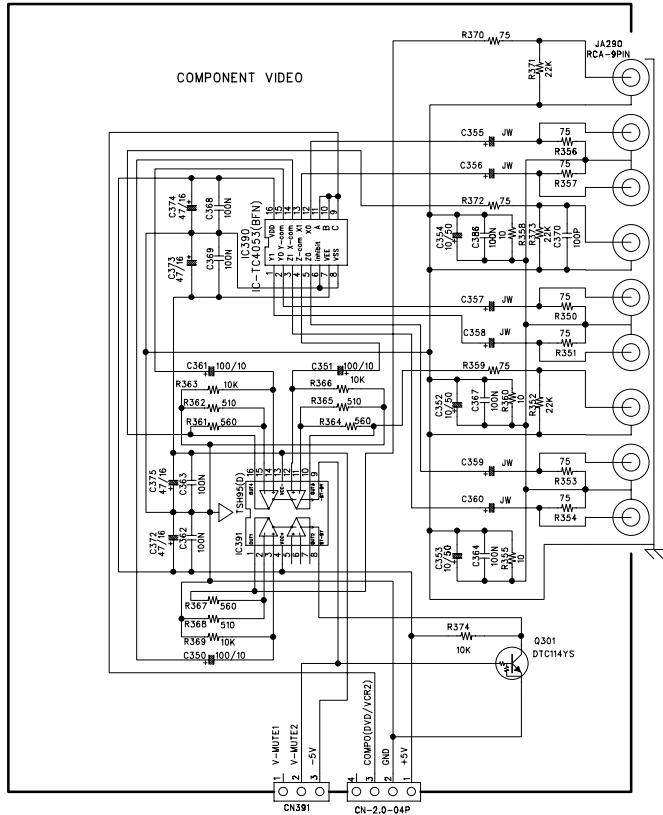
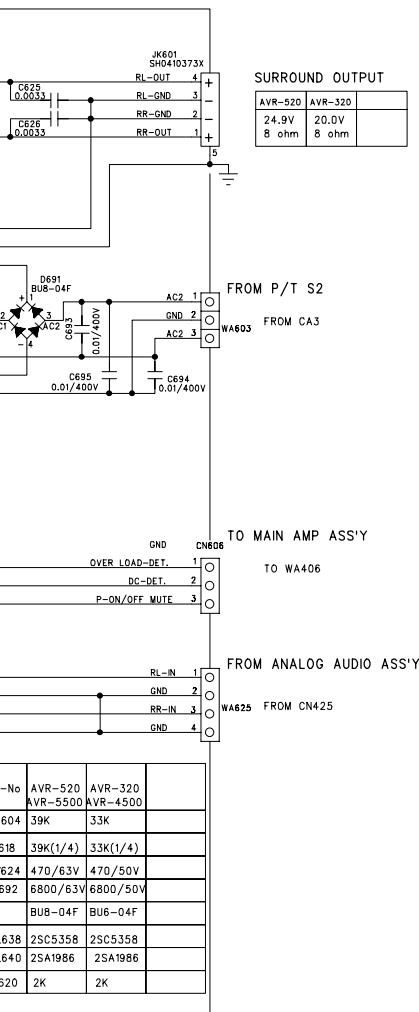


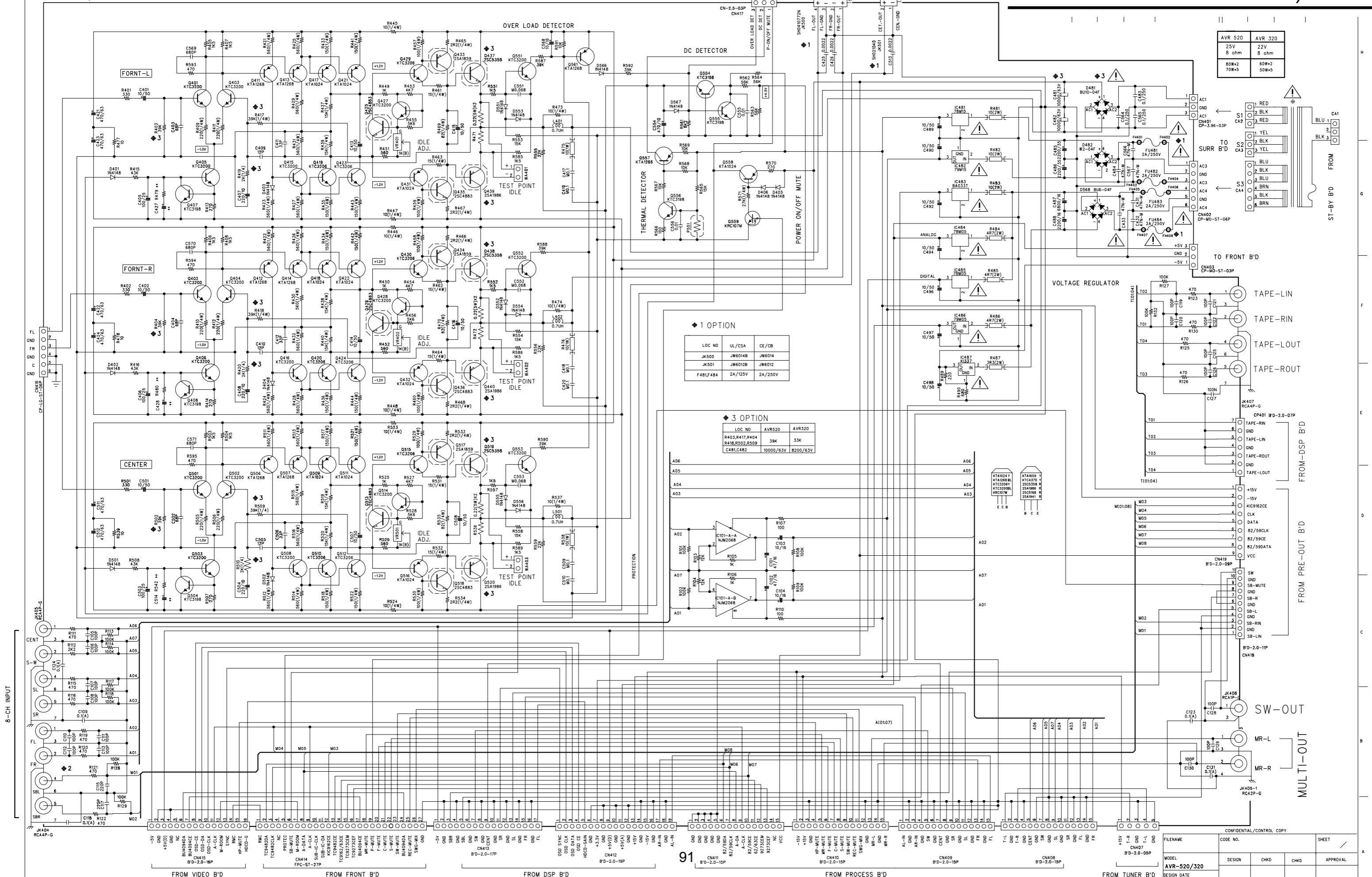
VERSION	USA	EU
R995	0	X
G20	0	X
FU981	320SB6.3A/125V	T4A/250V
	520SB7A/125V	T5A/250V
AC INPUT	120V/60Hz	230V/50Hz
JW125	0	X
JW124	X	0
C625	X	0
C626		
JW81	J2B12220012X	J2B12420032X

MATIC DIAGRAM

AVR520

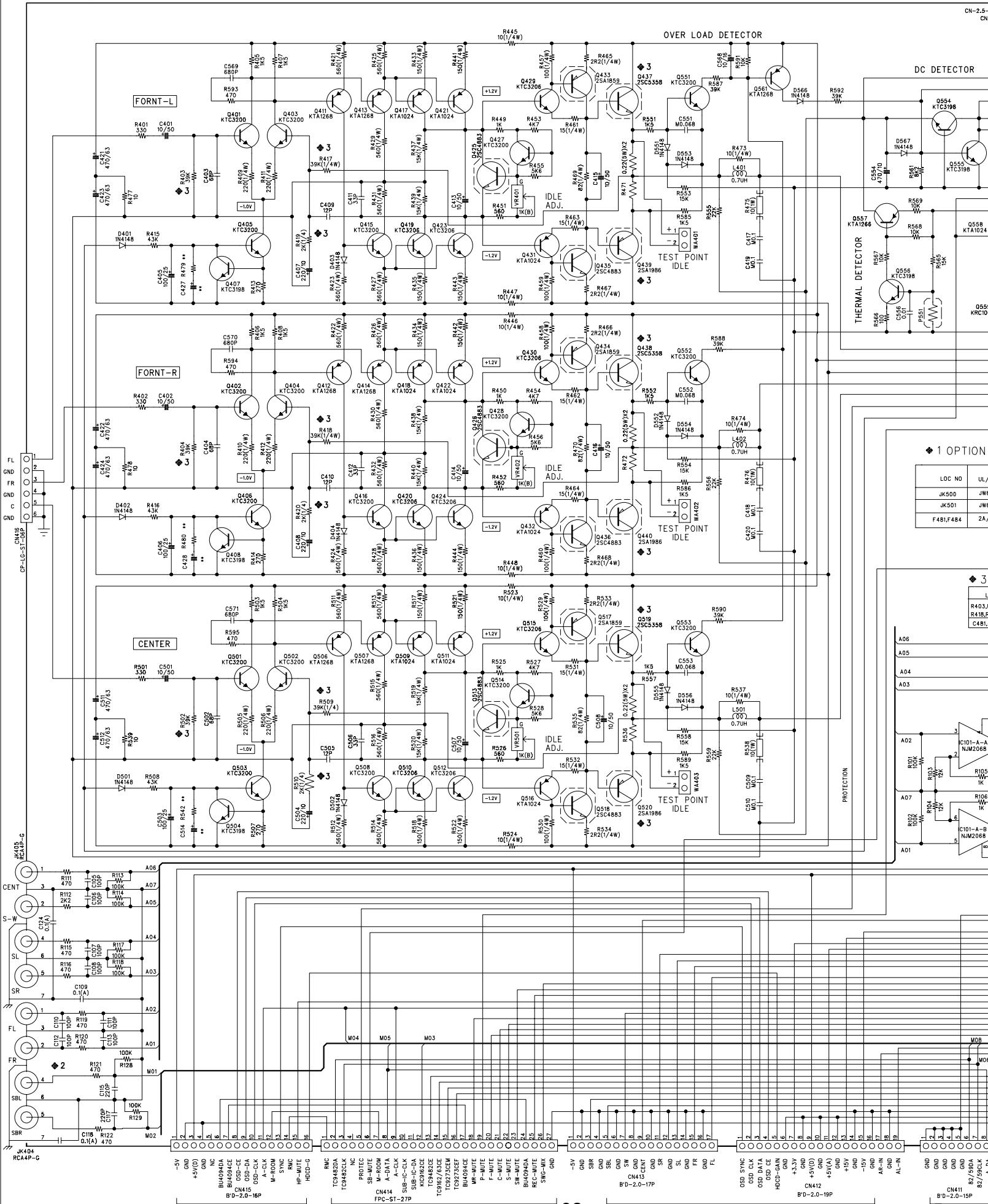
harman/kardon

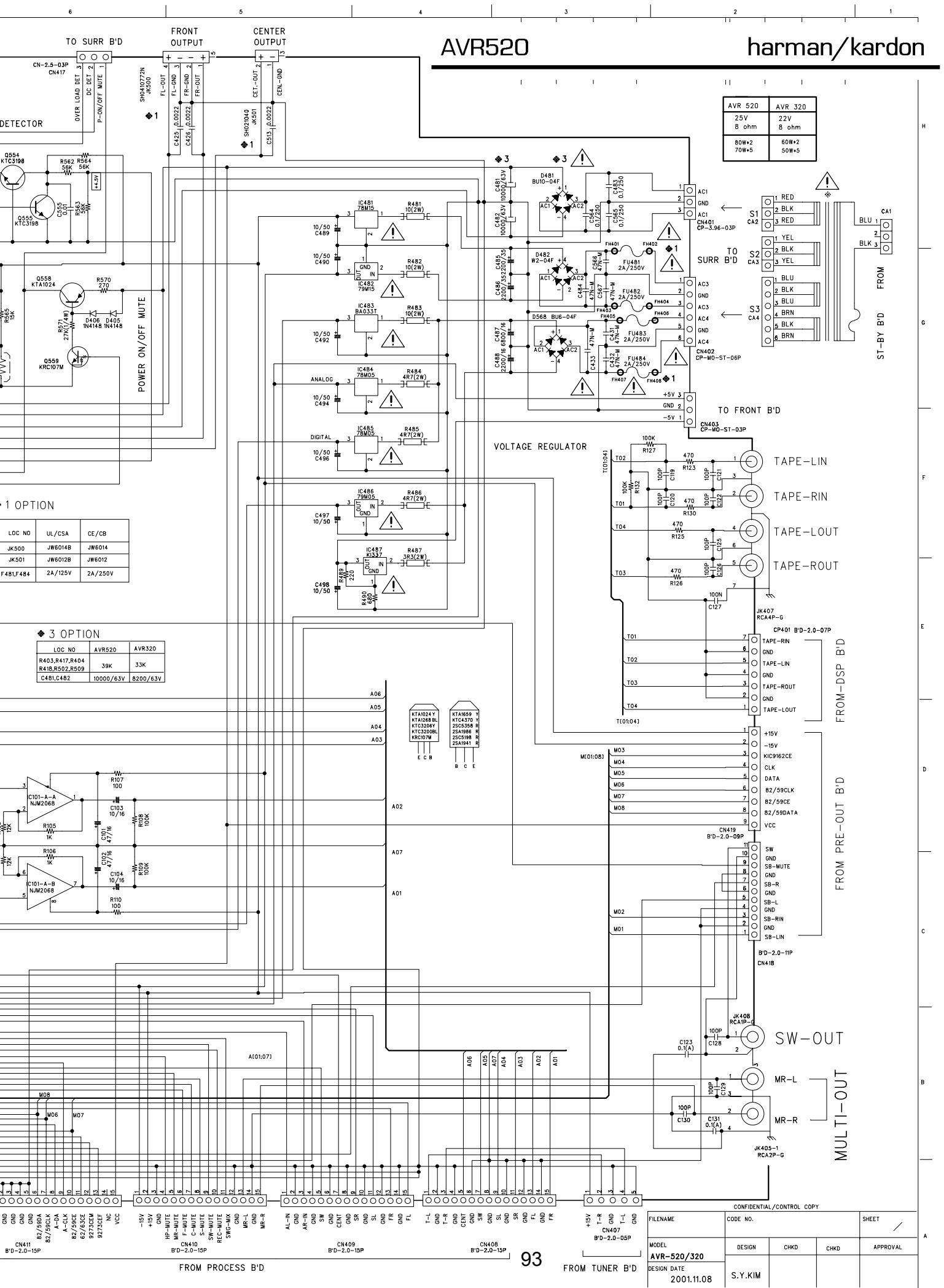




AVR 520 / 320 MAIN AMP

CN-2.5-CN



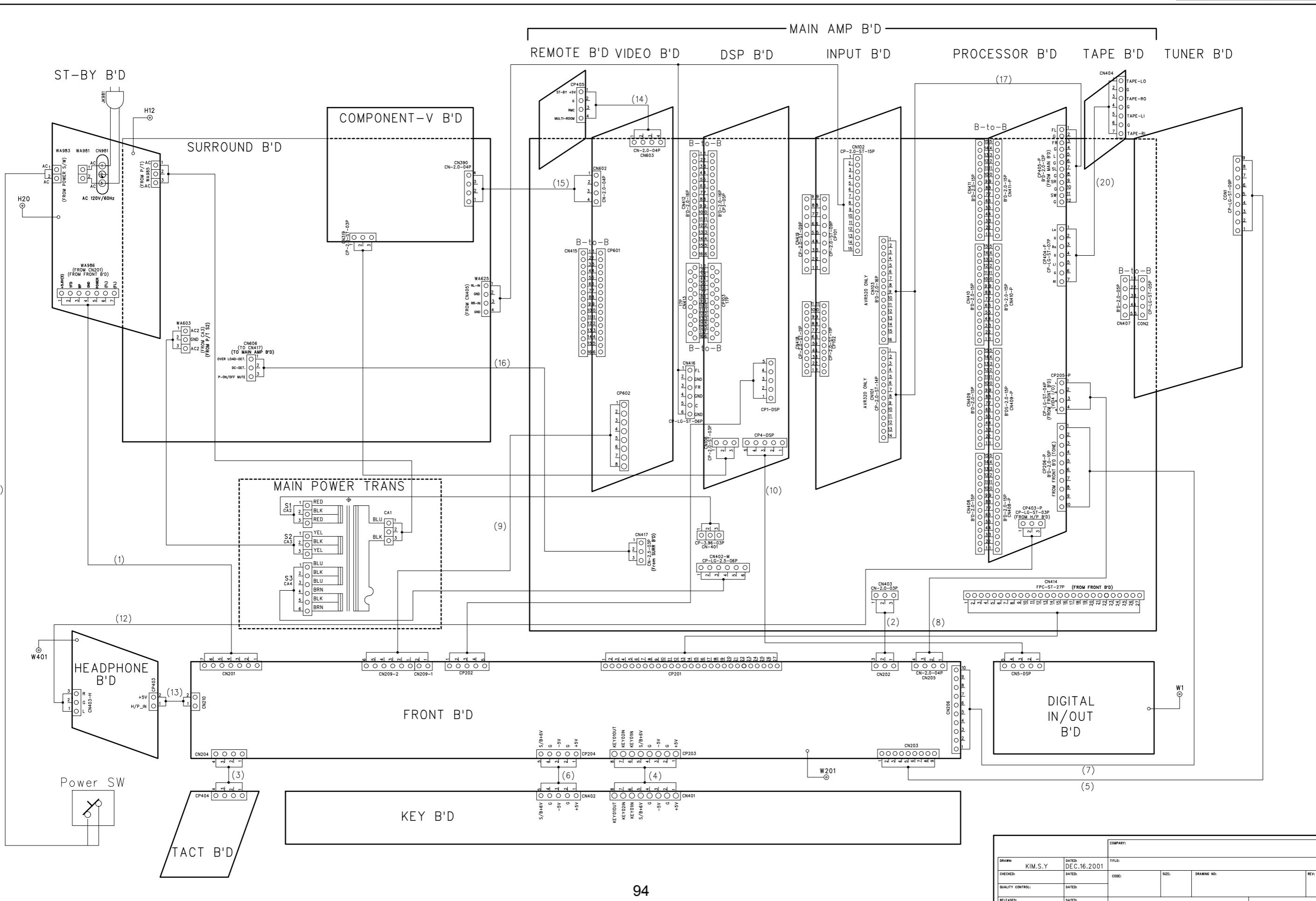


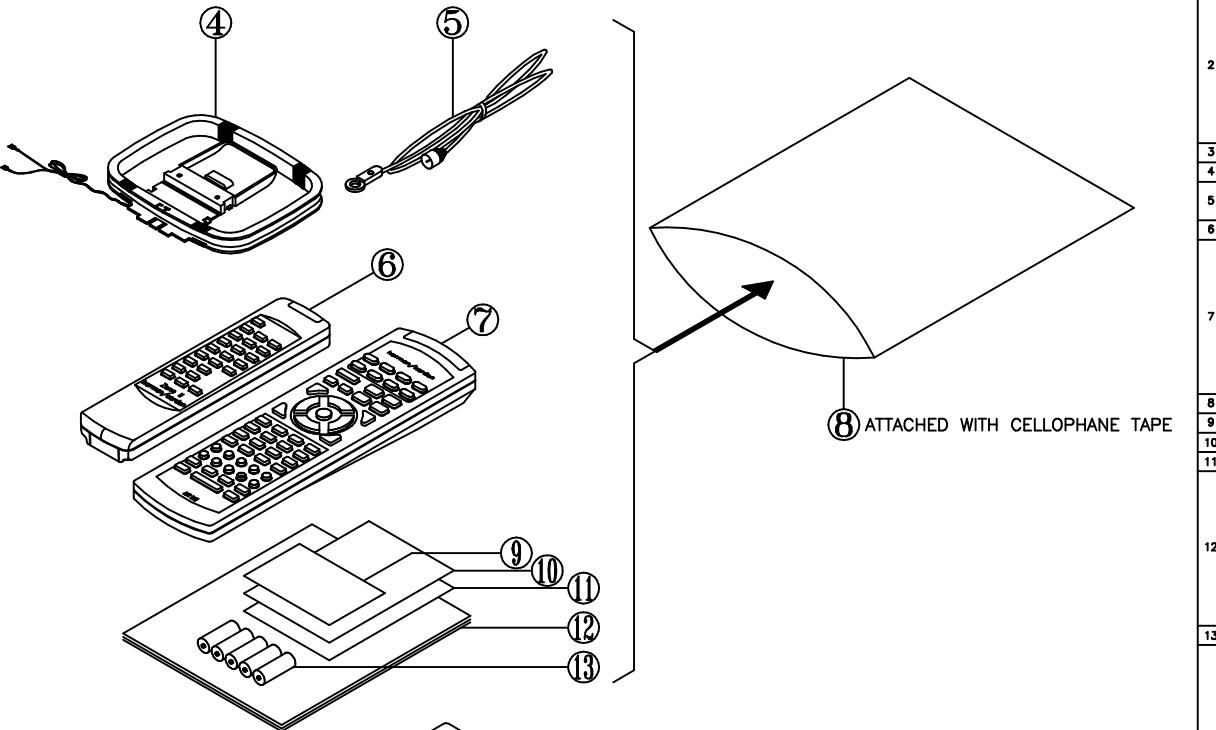
WIRING DIAGRAM

AVR520

harman/kardon

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



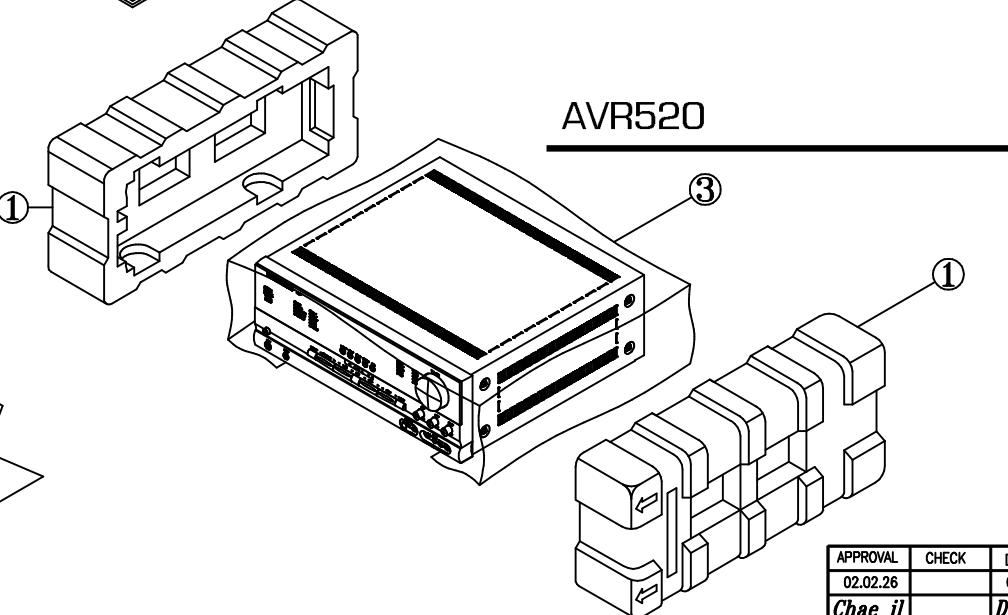


(8) ATTACHED WITH CELLOPHANE TAPE

NO.	PARTS NO.	DESCRIPTION	AVR 520US		AVR 320US		AVR 220US		AVR 5500EU		AVR 3500EU		AVR 2500EU	
			2	2	2	2	2	2	2	2	2	2	2	2
1	55178610XX	CUSHION POLY												
	55178580XX	BOX CARTON AVR 520 US	1											
	55198680XX	BOX CARTON AVR 320 US		1										
	55244340XX	BOX CARTON AVR 220 US			1									
2	55244330XX	BOX CARTON AVR 120 US				1								
	55247310XX	BOX CARTON AVR 5500 EU					1							
	55247300XX	BOX CARTON AVR 4500 EU						1						
	55243020XX	BOX CARTON AVR 3500 EU							1					
	55243010XX	BOX CARTON AVR 2500 EU								1				
3	55170660XX	SHEET PE 0.5t	1	1	1	1	1	1	1	1	1	1	1	1
4	55127490XX	AM ANTENNA LOOP	1	1	1	1	1	1	1	1	1	1	1	1
5	55127460XX	FM ANTENNA 75 EU								1	1	1	1	1
6	55127450XX	FM ANTENNA 75 US	1	1	1	1	1	1	1	1	1	1	1	1
	55178550XX	ASS'Y REMOCON ZONE II												
	55178540XX	ASS'Y REMOCON AVR 520 US	1											
	55194410XX	ASS'Y REMOCON AVR 320 US		1										
	55244360XX	ASS'Y REMOCON AVR 220 US			1									
7	55244350XX	ASS'Y REMOCON AVR 120 US				1								
	55262330XX	ASS'Y REMOCON AVR 5500 EU					1							
	55262320XX	ASS'Y REMOCON AVR 4500 EU						1						
	55242990XX	ASS'Y REMOCON AVR 3500 EU							1					
	55242980XX	ASS'Y REMOCON AVR 2500 EU								1				
8	55164890XX	POLY BAG PE 0.05t	1	1	1	1	1	1	1	1	1	1	1	1
9	55178720XX	CARD POST PAPER	1	1	1	1								
10	55176740XX	CADR WARRANTY PAPER	1	1	1	1	1	1	1	1	1	1	1	1
11	55178770XX	SAFETY LEAFLET PAPER	1	1	1	1	1	1	1	1	1	1	1	1
12	55180380XX	MANUAL AVR 520 US												
	55198690XX	MANUAL AVR 320 US	1											
	55244450XX	MANUAL AVR 220 US				1								
	55244440XX	MANUAL AVR 120 US					1							
	55247330XX	MANUAL AVR 5500 EU						1						
	55247320XX	MANUAL AVR 4500 EU							1					
	55243040XX	MANUAL AVR 3500 EU								1				
	55243030XX	MANUAL AVR 2500 EU									1			
13	55020220NR	BATTERY 1.5V AAA	3	3	5	5	3	3	5	5	5	5	5	5
	55178380XX	LABEL BARCODE AVR 520 US	2											
	55198670XX	LABEL BARCODE AVR 320 US		2										
	55244410XX	LABEL BARCODE AVR 220 US			2									
	55244380XX	LABEL BARCODE AVR 120 US				2								
	55247290XX	LABEL BARCODE 5500 EU					2							
	55247280XX	LABEL BARCODE 4500 EU						2						
	55242960XX	LABEL BARCODE 3500 EU							2					
	55242950XX	LABEL BARCODE 2500 EU								2				

AVR520

harman/kardon



95

APPROVAL	CHECK	DRAWING	DESIGN	MODEL	TOLERANCE		PARTS NAME	PACKING DRAWING	
					SCALE	N S		LESS; ±	UNIT
02.02.26		02.02.26							
Chae il Lee		Dong il Choi							