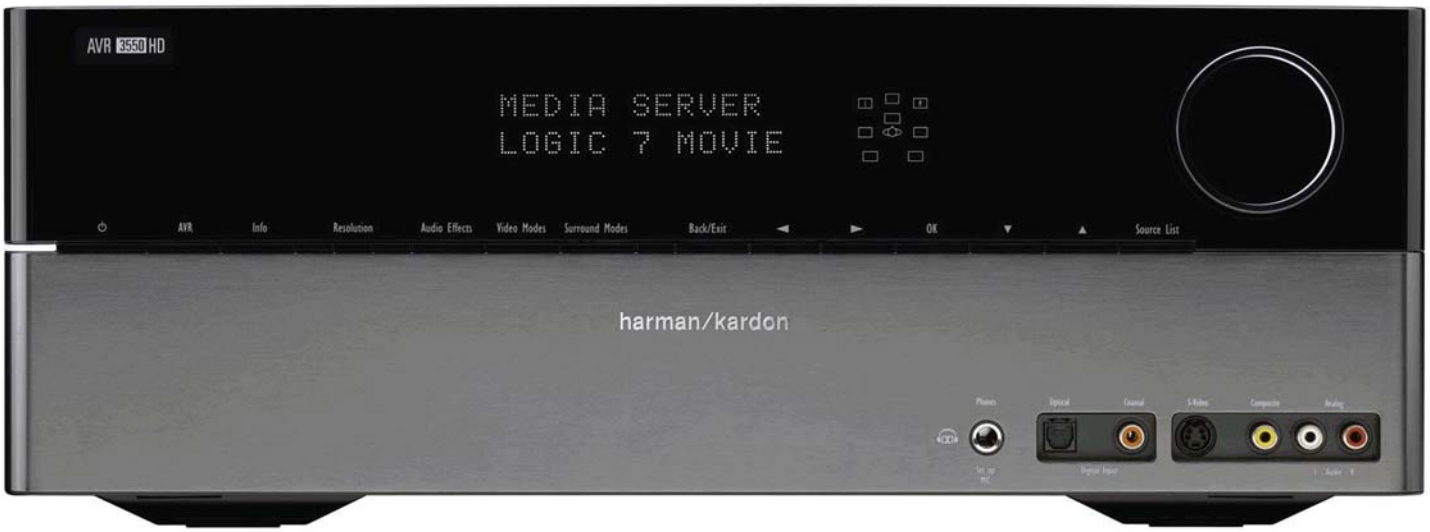
harman/kardon

AVR 3550HD

7 X 75W 7.1 CHANNEL A/V RECEIVER

SERVICE MANUAL



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harman/kardon, Inc.

250 Crossways Park Dr.

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Discontinued XXXX

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 or 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.

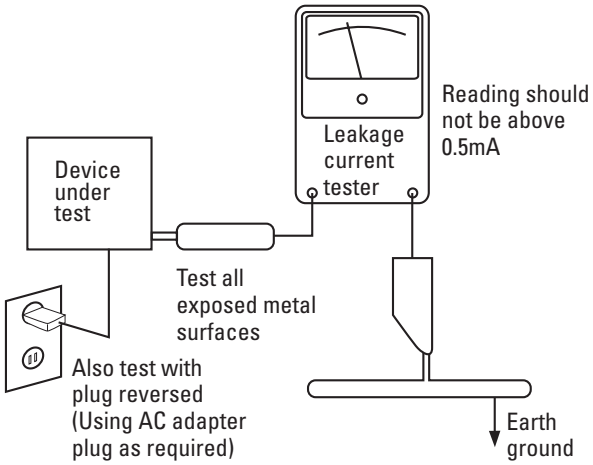
Components identified with the IEC symbol ⚠ in the parts list are special significance to safety. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual.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

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed o.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

AVR 3550HD TECHNICAL SPECIFICATIONS

Audio Section

Seven-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 (L & R Side, L & R Back) 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)	100dB
Surround System Adjacent Channel Separation	
Pro Logic® I/II	40dB
Dolby® Digital (AC-3)	55dB
DTS®	55dB
Frequency Response	
@ 1W (+0dB, –3dB)	10Hz – 130kHz
High Instantaneous Current Capability (HCC)	±35 Amps
Transient Intermodulation Distortion (TIM)	Unmeasurable
Slew Rate	40V/µsec

FM Tuner Section

Frequency Range	87.5–108.0MHz
Usable Sensitivity	IHF 1.3µV/13.2dBf
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

AM Tuner Section

Frequency Range	520–1720kHz
Signal-to-Noise Ratio	45dB
Usable Sensitivity	Loop 500µV
Distortion	1kHz, 50% Mod 0.8%
Selectivity	±10kHz, 30dB

Video Section

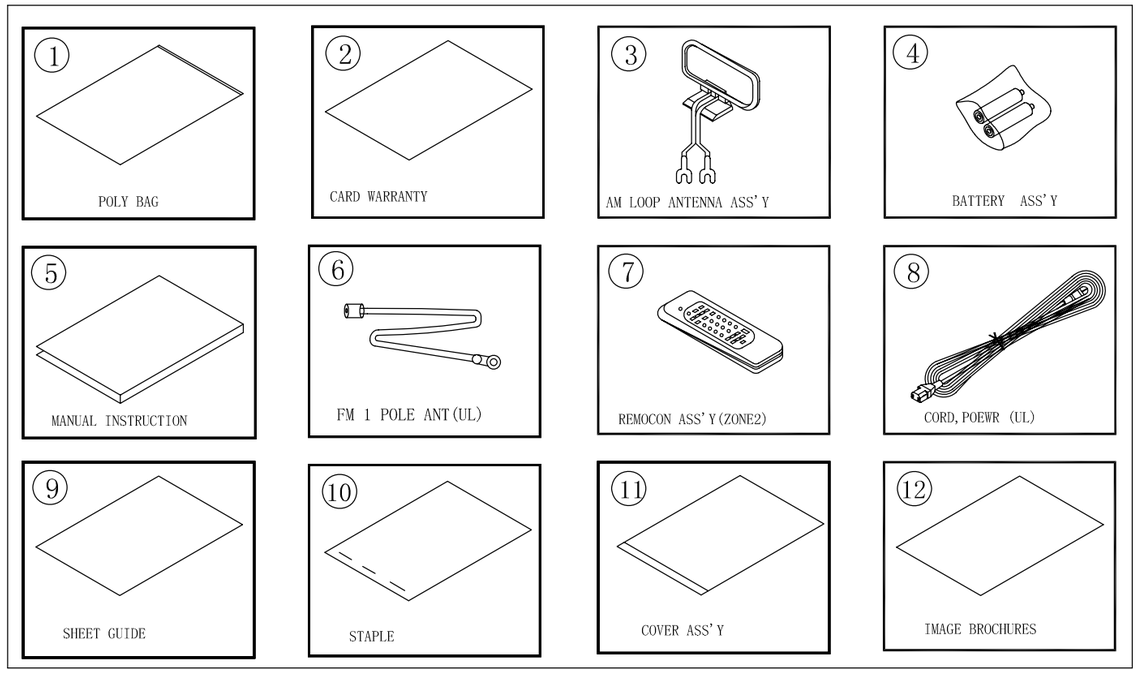
Television Format	NTSC
Input Level/Impedance	1Vp-p/75 ohms
Output Level/Impedance	1Vp-p/75 ohms
Video Frequency Response (Composite and S-Video)	10Hz–8MHz (–3dB)
Video Frequency Response (Component Video)	10Hz–100MHz (–3dB)
HDMI™	Version 1.3a with 10-bit Deep Color

General

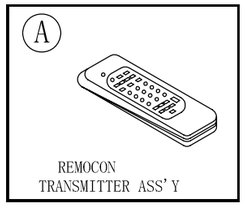
Power Requirement	AC 120V/60Hz	
Power Consumption	118W idle, 890W maximum (7 channels driven)	
Dimensions	(Product)	(Shipping)
Width	17-5/16 inches (440mm)	21-7/8 inches (555mm)
Height	6-1/2 inches (165mm)	10-1/2 inches (266mm)
Depth	15 inches (382mm)	18-5/16 inches (465mm)
	(Product)	(Shipping)
Weight	31.5 lb (14.3kg)	36.7 lb (16.7kg)

Depth measurement includes knobs, buttons and terminal connections.
Height measurement includes feet and chassis.
All features and specifications are subject to change without notice.

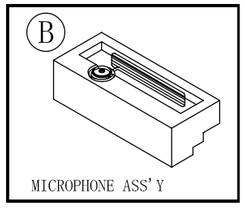
1. Instruction manual ass'y - Accessories



NO	DESCRIPTION	PARTS NO.	Q,ty
1	POLY BAG		1
2	CARD WARRANTY	CQE1A172X	1
3	AM LOOP ANTENNA ASS'Y	CSA1A027Z	1
4	BATTERY		2
5	Owner's Manual visit www.harmankardon.com		1
6	FM 1 POL ANT(UL)	CSA1A019Z	1
7	REMOCON ASS'Y(ZONE2)	CARTZONE24	1
8	CORD, POWER(UL)	CJA2A070Z	1
9	SHEET GUIDE	CQE1A384Z	1
10	STAPLE		3
11	COVER ASS'Y		1
	1 COVER A	CGR2A436	1
	2 COVER B	CGR2A437	1
	3 ORNAMENT , AL A	CGX1A391C66	1
	4 ORNAMENT , AL B	CGX1A392C66	1
	5 SHEET, FRONT COVER	CQE1A219Z	1
	6 PAD , COVER	CPS1A676	1
	7 BAG , POLY		1
12	IMAGE BROCHURES		1



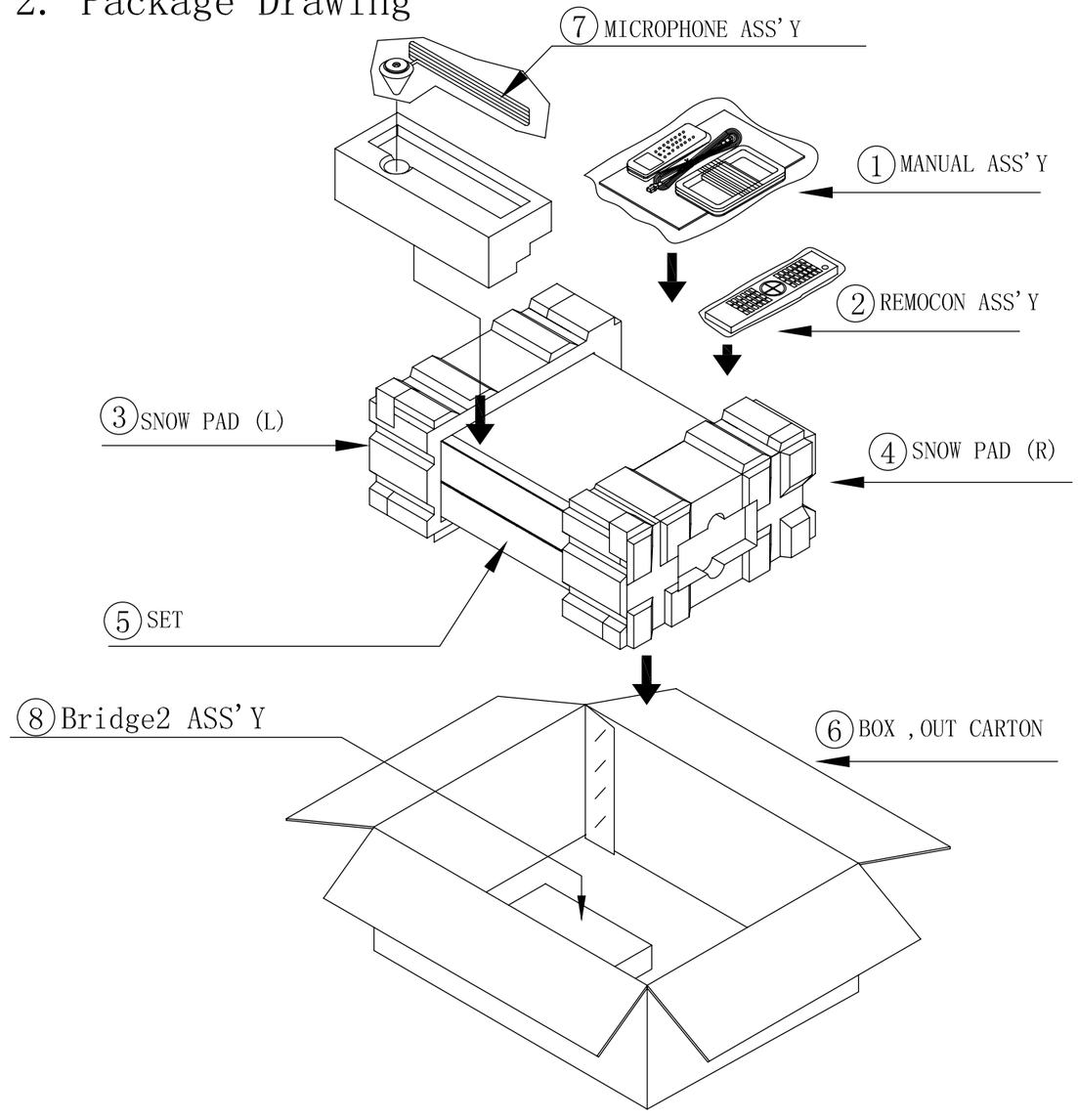
A	REMOCON ASS'Y	RB46G00	1



B	MICROPHONE ASS'Y	CJXAVR340MICRO	1

AVR3550HD

2. Package Drawing



NO	DESCRIPTION	PARTS NO.	Qty
1	ACCESSORY-1		1
2	REMOCON ASS'Y	RB46G00	1
3	SNOW, PAD(L)	CPS5A564Z	1
4	SNOW, PAD(R)	CPS5A565Z	1
5	AVR 3550HD	AVR 3550HD	1
6	BOX, OUT CARTON	CPG1A855X	1
7	MICROPHONE ASS'Y	CJXAVR340MICRO	1
8	BRIDGE 2 ASS'Y	CXZBRIDGE2354	1

FRONT-PANEL CONTROLS

Standby/On Switch: This electrical switch turns the receiver on for playback, or leaves it in Standby mode for quick turn-on using this switch or the remote control.

Power Indicator: This LED has three possible modes:

- **Main Power Off:** When the AVR is unplugged or the rear-panel Main Power Switch is off, this LED is off.
- **Standby:** The LED is amber, indicating that the AVR is ready to be turned on.
- **On:** The LED is white, when the AVR is on and operating normally.

NOTE: If the PROTECT message ever appears, turn off the AVR and unplug it. Check all speaker wires for a possible short. If none is found, bring the unit to an authorized Harman Kardon service center for inspection and repair before using it again.

Source List: Press this button to select a source device, which is a component where a playback signal originates, such as DVD, cable TV, satellite or the tuner.

Volume Knob: Turn this knob to raise or lower the volume.

Message Display: Various messages appear in this two-line display in response to commands and changes in the incoming signal. In normal operation, the current source name appears on the upper line, while the surround mode is displayed on the lower line. When the on-screen display menu system (OSD) is in use, the current menu settings appear.

Headphone Jack/EzSet/EQ Microphone Input: Plug a 1/4" headphone plug into this jack for private listening.

This jack is also used to connect the supplied microphone for the EzSet/EQ procedure described in the Initial Setup section. To begin EzSet/EQ, plug the supplied microphone into this jack, place the microphone at the listening position, and follow the directions given in the Speaker Setup-Automatic Setup-EzSet/EQ on-screen menu.

Surround Modes: Press this button to select a surround sound (e.g., multichannel) mode. The Surround Modes menu will appear on screen, and the menu line will appear in the front-panel display.

Use the front-panel or remote ▲/▼ Buttons to highlight a different menu line: Auto Select, Virtual Surround, Stereo, Movie, Music or Video Game. Each line represents a type of audio signal, and is set to the preferred surround mode that you manually select.

Press the OK Button when the menu line is highlighted, and the available surround mode options for the current signal will appear. Use the ▲/▼ Buttons to select the desired mode, and press the OK Button to engage it. Press the Back/Exit Button to exit the Surround Modes menu.

See the Advanced Functions section for more information on surround modes.

Analog Audio, Video and **Digital Audio Front Inputs:** Connect a source component that will only be used temporarily, such as a digital camera or game console, to these jacks. Use only one type of audio and one type of video connection.

NOTES:

- Each of these connections (analog audio, digital audio and video) may be independently assigned to any source. See the Initial Setup section for information on setting up sources, including assigning audio and video inputs to a source.
- The AVR's menus refer to these jacks as the Optical Front, Coaxial Front, Composite Front, S-Video Front and Analog Front inputs.

Speaker/Channel Input Indicators: The box icons indicate which speaker positions you have configured (see the Initial Setup Section), and the size (frequency range) of each speaker. The letters will light inside the boxes to indicate which channels are present in the incoming signal.

Navigation: These buttons are used to navigate the AVR's menus and to operate the tuner.

Remote IR Sensor: This sensor receives infrared (IR) commands from the remote control. It is important to ensure that it is not blocked. If covering the sensor is unavoidable, such as when the AVR 3550HD is placed inside a cabinet, you may use an optional Harman Kardon HE 1000, or other infrared receiver, connecting it to the Remote IR Input on the AVR 3550HD's rear panel. Alternatively, connect the Remote IR Output of another compatible component to the AVR 3550HD's Remote IR Input. Point the remote at the other device's remote sensor, and the command will be transmitted to the AVR 3550HD. An external IR "blaster" may also be used, positioned to point at this area.

AVR Settings Button: Press this button to access the AVR's main menu.

Info Settings Button: Press this button to directly access the AVR's Source Info submenu, which contains the settings for the current source.

Resolution: Each press of this button changes the AVR's video output resolution to these settings: 480i, 480p, 720p, 1080i or 1080p.

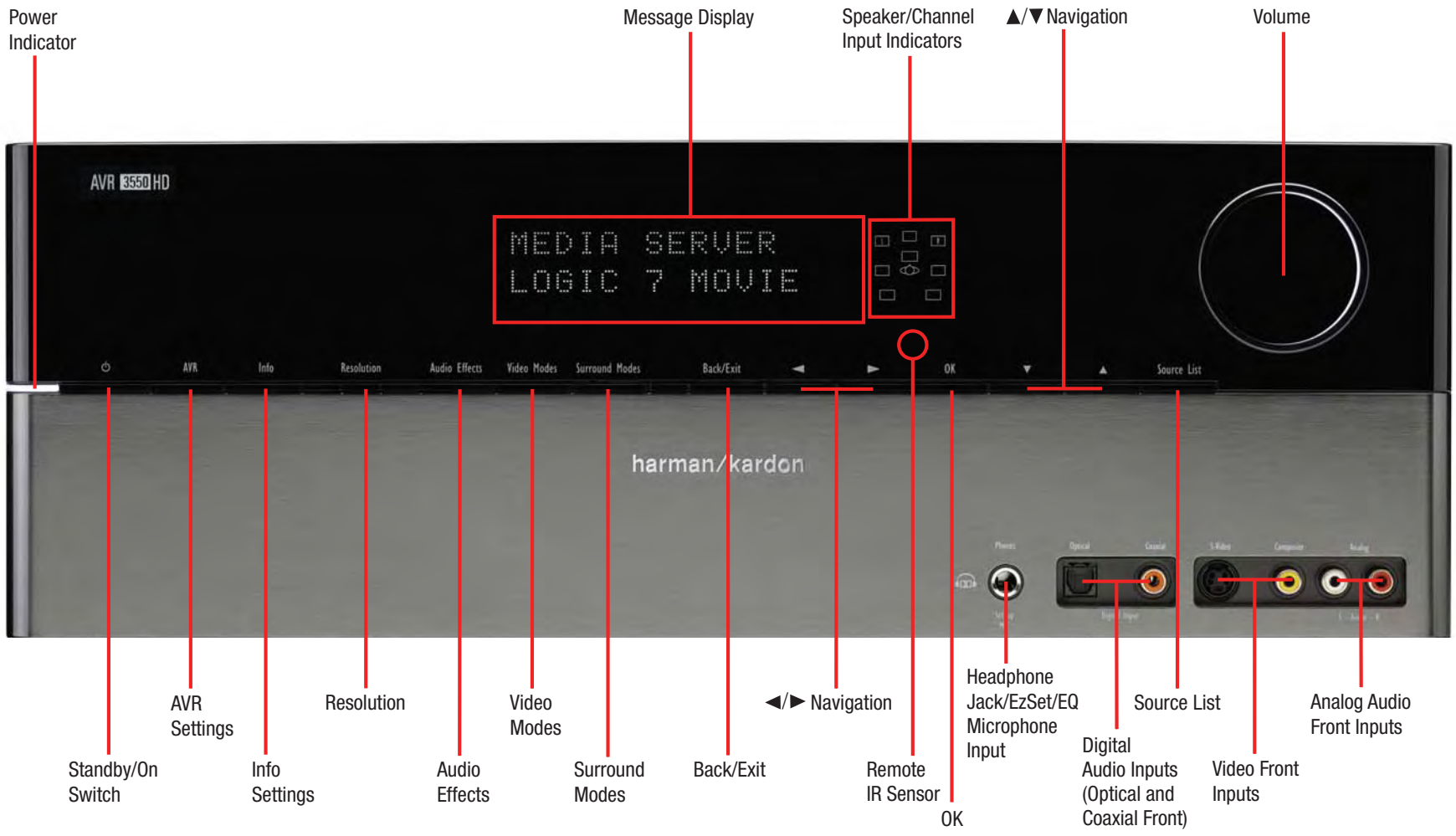
IMPORTANT NOTE: If the AVR's video output resolution is set higher than the capabilities of the actual connection, you will not see a picture. If the best video connection from the AVR to the TV is either composite or S-video, press this button until the resolution is set to 480i.

Audio Effects: Press this button to directly access the Audio Effects submenu, which allows adjustment of the tone and other controls. See the Initial Setup section for more information.

Video Modes: Press this button for direct access to the Video Modes submenu, which contains settings that may be used to improve the picture if necessary after you have adjusted the picture settings using the video display or TV.

OK: Press this button to select the currently highlighted item.

Back/Exit: Press this button to return to the previous menu, or to exit the menu system.



NOTE: To make it easier to follow the instructions throughout the manual that refer to this illustration, a copy of this page may be downloaded from the Product Support section at www.harmankardon.com.

REAR-PANEL CONNECTIONS

Main Power Switch: This mechanical switch turns the power supply on or off. It is usually left in the up position (On), and cannot be turned on using the remote control.

AM and **FM Antenna Terminals:** Connect the included AM and FM antennas to their respective terminals for radio reception.

XM Antenna Jack: Plug in an XM Connect-and-Play or Mini-Tuner antenna module here. The XM antenna module is purchased separately, and should specify that it is for home use with an XM Ready® product. You will need to subscribe to the XM service, which is available separately, and activate the service for your antenna module. (XM service is not available in Alaska and Hawaii.)

Front, Center and **Surround Speaker Outputs:** Use two-conductor speaker wire to connect each set of terminals to the correct speaker. Remember to observe the correct polarity (positive and negative connections). Always connect the positive lead to the colored terminal on the receiver and the red terminal on the speaker. Connect the negative lead to the black terminal on both the receiver and the speaker. See the Connections section for more information on connecting your speakers.

Surround Back/Zone 2 Speaker Outputs: These speaker outputs are used for the surround back channels in a 7.1-channel home theater, or may be reassigned to a remote room for multizone operation. When these outputs are reassigned for multizone operation, only a 5.1-channel configuration will be available in the main listening room. Use the on-screen menu system to configure these channels as desired.

As with the other speaker outputs, remember to observe proper polarity by connecting the positive and negative output terminals to the corresponding terminals on each speaker.

Subwoofer Output: If you have a powered subwoofer with a line-level input, connect it to this jack.

Preamp Outputs: Connect these jacks to an external amplifier if more power is desired.

The Surround Back/Zone 2 Preamp Outputs may be used with an external amplifier to power the surround back channels, or to power the remote zone of a multizone system. Use the on-screen menu system to configure these channels as desired.

Remote Infrared (IR) Input and **Output:** When the remote IR receiver on the front panel is blocked, such as when the AVR is placed inside a cabinet, connect an optional IR receiver to the Remote IR Input jack for use with the remote control. The Remote IR Output may be connected to the Remote IR Input of a compatible product to enable remote control through the AVR. This is particularly useful in multizone applications to control a source device from the remote room (when used with the Zone 2 IR Input). When several source devices are used, connect them in "daisy chain" fashion.

Zone 2 Infrared (IR) Input: Connect a remote IR receiver located in the remote zone of a multizone system to this jack to control the AVR (and any source devices connected to the Remote IR Output) from the remote zone.

Remote IR Carrier Output: This output is similar in function to the Remote IR Output, with the difference that this jack outputs the full infrared signal as received by the AVR's IR sensor or the Remote IR Input, while the Remote IR Output jack outputs a "stripped" signal that has no carrier frequency. The full signal may be required by some components with IR inputs. It may also be required when you connect external IR emitters or other devices to the AVR to pass IR signals to other components.

A-BUS IR Output: This is an additional IR output that may only be controlled through the A-BUS system. Use it as a dedicated connection to sources used only with the A-BUS system, or if the other IR outputs are in use for incompatible applications.

A-BUS Port: Use a Category 5/5e cable to connect this port to optional A-BUS equipment for multizone operation. When the A-BUS system is used, it is possible to have a full 7.1-channel system in the main listening room at the same time the multizone system is in use.

Composite and **S-Video 1, 2** and **3 Video Inputs:** These jacks may be used to connect your video-capable source components (e.g., VCR, DVD player, cable TV box) to the receiver. Use only one type of video connection for each source. These inputs are assignable, which means they may be paired with any analog or digital audio inputs. This will be explained in more detail in subsequent sections of this manual.

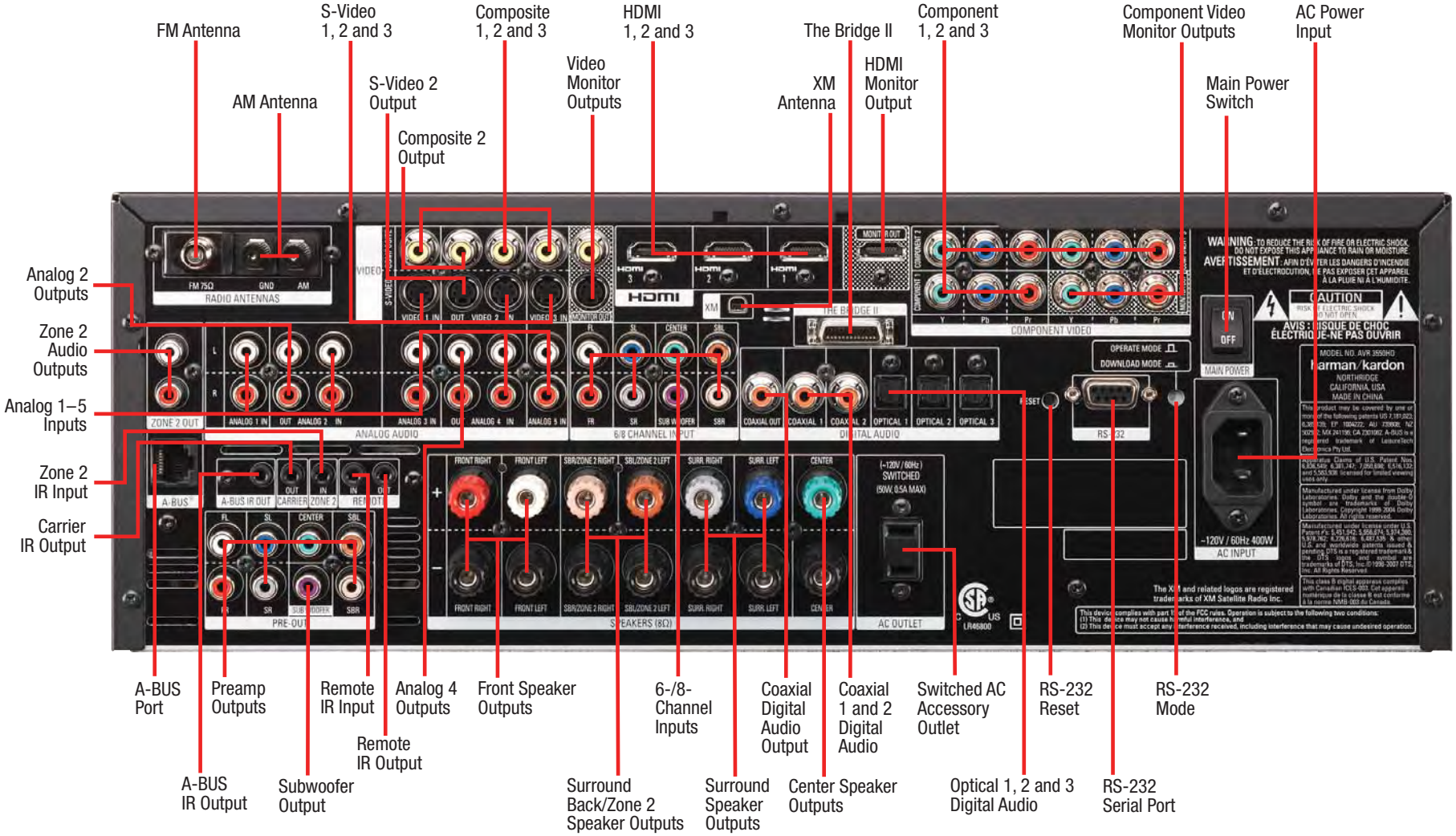
NOTE: The Video 2 inputs are associated with a set of outputs. Consider connecting a video recorder here.

Composite and **S-Video 2 Outputs:** Connect one of these analog video outputs to the composite or S-video inputs of a recording device. A signal is available at these outputs whenever an analog video source is playing. HDMI and component video signals are not available for recording.

Composite and **S-Video Monitor Outputs:** If any of your sources use composite or S-video connections, connect one or both of these monitor outputs to the corresponding inputs on your television or video display. If your video display is equipped with HDMI or component video inputs, these connections are unnecessary. Connect the HDMI Monitor Output (if available, otherwise use the Component Video Monitor Output) to your TV, and the AVR 3550HD will convert the composite or S-video source signal to the correct format for a single video cable connection to the TV.

HDMI Inputs and **Output:** HDMI (High-Definition Multimedia Interface) is a connection for transmitting digital audio and video signals between devices. With the AVR 3550HD's powerful processor, you may connect up to three HDMI-equipped source devices to the HDMI inputs using a single-cable connection, while benefiting from superior digital audio and video performance. If your video display is not HDMI-compatible, connect the device to one of the analog video inputs, then pair it with an analog or digital audio input.

If your video display has an HDMI input, make just the HDMI video connection to your display; the AVR 3550HD will automatically transcode analog video signals to the HDMI format, upscaling to as high as 1080p.



NOTE: To make it easier to follow the instructions throughout the manual that refer to this illustration, a copy of this page may be downloaded from the Product Support section at www.harmankardon.com. All connectors are inputs except as indicated.

REAR-PANEL CONNECTIONS

Analog 1–5: Connect the left and right analog audio outputs of a source device to any of these inputs. These inputs are assignable, which means they may be paired with any video inputs, as explained in subsequent sections of this manual.

NOTES:

- The Analog 3 through 5 connectors physically line up below the Video 1 through 3 (composite and S-video) connectors. For convenience, consider using Analog 3 with Video 1, Analog 4 with Video 2 and Analog 5 with Video 3, if appropriate for your system.
- The Analog 1 and 2 connectors don't physically line up with any analog video inputs. Consider using them for audio-only devices, such as a CD player or cassette tape deck.
- The Analog 2 and 4 inputs are each associated with a set of outputs. Consider using the Analog 2 connectors for an audio recorder, and the Analog 4 connectors for a video recorder (along with the Video 2 connectors).
- You may optionally connect a source to both an analog and digital audio input. This is useful for making recordings, for multizone applications or simply as a backup.

Analog 2 and **4 Outputs:** Connect either of these analog audio outputs to the analog audio inputs of a recording device. A signal is available at these outputs whenever an analog audio source is playing. However, the AVR 3550HD does not convert digital audio sources to analog for recording.

Coaxial 1/2 and **Optical 1/2/3 Digital Audio Inputs:** If a source has a compatible digital audio output, and if you are not using an HDMI connection for audio for the device, connect it to one of these jacks to hear digital audio formats, such as Dolby Digital, DTS and linear PCM. Use only one type of digital audio connection for each source.

Coaxial Digital Audio Output: If a source is also an audio recorder, connect a coaxial digital audio output to the recorder's input for improved recording quality. Only PCM digital audio signals are available for recording. The AVR 3550HD will pass signals from the Optical Digital Audio Inputs to this output.

The Bridge II Input: Connect the included Harman Kardon The Bridge II docking station to this input for use with most docking iPod models, 4G and later (not included). Make sure the receiver is turned off (in Standby mode) when connecting The Bridge II.

6-/8-Channel Inputs: Connect the multichannel analog audio outputs of a DVD-Audio, SACD™, Blu-ray Disc™ or HD-DVD player (or any other external decoder) to these jacks to enjoy these formats.

NOTE: When the multichannel player has an onboard digital decoder, it is not necessary to connect it to the 6-/8-Channel Analog Audio Inputs. Only a digital audio connection (HDMI, coaxial or optical) is needed.

Zone 2 Audio Outputs: Connect these jacks to an external amplifier to power the speakers in the remote zone of a multizone system. When these jacks are used, it is possible to have a full 7.1-channel system in the main listening room at the same time the multizone system is in use.

Component Video 1, 2 and **3 Inputs:** If a video source (e.g., DVD player or HDTV tuner) has analog component video (Y/Pb/Pr) capability, and if you are not using an HDMI connection for the device, then connect the component video outputs of the source to one of the sets of component video inputs. Do not make any other video connections to that source.

Component Video Monitor Outputs: If you are using one of the Component Video Inputs and your television or video display is component-video-capable, and if you are not connecting the HDMI Output to your display, connect these jacks to the corresponding inputs on your video display.

NOTES:

- Due to copy-protection restrictions, there is no output at the Component Video Monitor Outputs for copy-protected sources.
- Composite and S-video signals are upscaled to as high as 1080i and available at these outputs. If your video display's best connection is component video, it is the only video connection required from the AVR to the display.

RS-232 Serial Port: This specialized connector may be used with your personal computer in case we offer a software upgrade for the receiver at some time in the future.

RS-232 Mode: Leave this switch popped out in the Operate position unless the AVR 3550HD is being upgraded.

RS-232 Reset: This switch is only used during a software upgrade. A standard processor reset is performed by pressing and holding the front-panel OK Button.

Switched AC Accessory Outlet: You may plug the AC power cord of one source device into this outlet, and it will turn on whenever you turn on the receiver. Do not use a source that consumes more than 50 watts of power.

AC Power Input: After you have made all other connections, plug the AC power cord into this receptacle and into an unswitched wall outlet.

MAIN REMOTE CONTROL FUNCTIONS

The AVR 3550HD remote is capable of controlling 7 devices, including the AVR itself and an iPod docked in the included The Bridge II. During the installation process, you may program the codes for each of your source components into the remote. Each time you wish to use the codes for any component, first press its Selector button. This changes the button functions to the appropriate codes.

Each Source Selector has been preprogrammed to control certain types of components, with only the codes specific to each brand and model changing, depending on which product code is programmed. The AUX Source Selector may be used for any of five device types: a CD player, an HDTV set-top box, a PVD recorder used with cable or satellite television, a TiVo® set-top box or a VCR. The device mode will depend on the product code programmed into the AUX Source Selector as described in the Initial Setup section. CD players use codes beginning with a 0, 1 or 2; VCRs use codes beginning with a 3 or 4; HDTV set-top boxes use codes beginning with a 6; PVDs use codes beginning with a 7 and TiVo set-top boxes use codes beginning with an 8. The remote automatically switches to the correct device mode, and it will operate the device as described in the function list in Table A13 in the appendix.

Similarly, the CBL/SAT Source Selector automatically selects cable or satellite television operation depending on the first digit of the product code: 0, 1 or 2 for cable and 3 or 4 for satellite boxes.

IMPORTANT NOTE: All of the AVR 3550HD's audio and video inputs are independently assignable. As explained in the Initial Setup section, it is necessary to set up each source, which includes selecting the inputs to which the device is physically connected. Any device may be connected to any compatible input and given any name (e.g., DVD or Game). The Source Selectors' device types may be changed. For example, the TV Source Selector may be reprogrammed to operate a DVD player.

Most of the buttons on the remote have dedicated functions, although the precise codes transmitted will vary depending on which source device has been selected for operation. Due to the wide variety of functions unique to various source devices, we have included only a few of the most-often used functions on the remote, including alphanumeric keys, transport controls, television-channel control, menu access and power on and off. Please refer to the descriptions below for more specific information.

Some buttons are only used to operate the AVR, and their functions are available at any time, even if the remote has been switched to another device's mode: AVR Power On and Off, Audio Effects, Video Modes, Surround Modes, Volume, Mute and Sleep Settings. Press the AVR Settings button near the bottom of the remote to return it to AVR mode.

Any given button may have different functions, depending on which component is being controlled. Some buttons are labeled with these functions. For example, the Page Up/Down Buttons are labeled for use as Channel Up/Down Buttons when controlling a television or cable box. See Table A13 in the appendix for listings of the different functions for each type of component.

IR Transmitter Lens: As buttons are pressed on the remote, infrared codes are emitted through this lens. Make sure it is pointing toward the component being operated.

AVR Power On Button: Press this button to turn on the AVR. The Master Power Switch on the AVR 3550HD's rear panel must first have been switched on.

Device Power Off Button: When the remote has been switched to a device's mode by pressing its Source Selector, press this button to turn off the device.

Device Power On Button: When the remote has been switched to a device's mode by pressing its Source Selector, press this button to turn on the device.

Mute Button: Press this button to mute the AVR 3550HD's speaker and headphone outputs temporarily. To end the muting, press this button or adjust the volume. Muting is also canceled when the receiver is turned off.

AVR Power Off Button: Press this button to turn off the AVR 3550HD.

Source Selectors: Press one of these buttons to select a source device, which is a component where a playback signal originates, e.g., DVD, CD, cable TV, satellite or HDTV tuner. This will also turn on the receiver and switch the remote's mode to operate the source device. The first press of the Radio Selector switches the AVR to the last-used tuner band (AM, FM or XM). Each successive press changes the band.

Audio Effects: This button is only used to operate the AVR. Press it to directly access the Audio Effects submenu, which allows adjustment of the tone and other controls. Each successive press scrolls to the next line in the menu. See the Initial Setup section for more information.

Video Modes: This button is only used to operate the AVR. Press it for direct access to the Video Modes submenu, which contains settings that may be used to improve the picture if necessary after you have adjusted the picture settings using the video display or TV. Each successive press scrolls to the next line in the menu. See the Advanced Functions section for more information.

Surround Modes: This button is only used to operate the AVR. Press it to directly access the Surround Modes submenu. Each successive press scrolls to the next line in the menu, or use the ▲/▼ Buttons to scroll to the next line: Auto Select, Virtual Surround, Stereo, Movie, Music or Video Game. Each menu line represents a type of audio signal, and is set to the preferred surround mode that you manually select.

Press the OK Button when the menu line is highlighted, and the available surround mode options for the current signal will appear. Use the ▲/▼ Buttons to select the desired mode, and press the OK Button to engage it. Press the Back/Exit Button to exit the Surround Modes menu and display the next higher menu in the hierarchy.

See the Advanced Functions section for more information on surround modes.

Sleep Settings Button: Press this button to activate the sleep timer, which turns off the receiver after a programmed period of time of up to 90 minutes. Each successive press increases the timer by 10 minutes, ending with the "Sleep Off" message.

MAIN REMOTE CONTROL FUNCTIONS

Volume Control: Press this button to raise or lower the volume.

Navigation (▲/▼/◀/▶) and OK Buttons: These buttons are used to make selections within the menu system. These buttons are also used to operate the tuner.

Alphanumeric Keys: Use these buttons to enter numbers for radio station frequencies or to select station presets. Use the alphabetic keys with other products as required. When prompted for a text entry, the first press of the key displays the first letter printed above the key. Each additional press displays the other letters. When the desired letter appears, wait a moment for it to be entered before moving to the next character.

Last Channel: When controlling a cable, satellite or HDTV set-top box or a TV, press this button to return to the previous television channel.

Activity: This button may be programmed to transmit a series of commands with a single press, which is useful for powering on all devices and selecting the correct settings on each device, or for selecting multidigit channels. After a string of commands has been programmed into an Activity, execute it by pressing this button, then the Alphanumeric Key (or the AVR Power On Button) into which the Activity was programmed. See the Advanced Functions section for more information on Activities.

Back/Exit: Press this button to return to the previous menu or to exit the menu system. This button may have the same effect with some source devices.

Menu Button: This button is used to display the main menu on some source devices. To display the AVR 3550HD's main menu, press the AVR Settings Button.

Disc Menu: While a DVD is playing, press the DVD Source Selector, then this button, to display the disc's menu.

Teletext Buttons: Use these buttons with a Teletext-capable television if your broadcast, cable or satellite provider offers Teletext service. They are normally not used in North America. These buttons are also used to operate some source devices. See Table A13 in the appendix for details.

Channel/Page Control: When the tuner has been selected, this control selects a preset radio station. Press these buttons while operating a cable, satellite or HDTV set-top box or a television to change channels. The Page control may be available with some DVD players when playing a DVD Audio disc containing pages of images associated with a track.

Record Button: Use this button to make recordings when an audio or video recorder is in use.

AVR Settings Button: Press this button to display the AVR's Main Menu. It is also used to switch the remote's device mode from a source device to the AVR.

Info Settings Button: Press this button to display the AVR's Info Menu, which contains the settings for the current source.

Source Settings Button: Press a Source Selector and then this button to display a source device's settings menu.

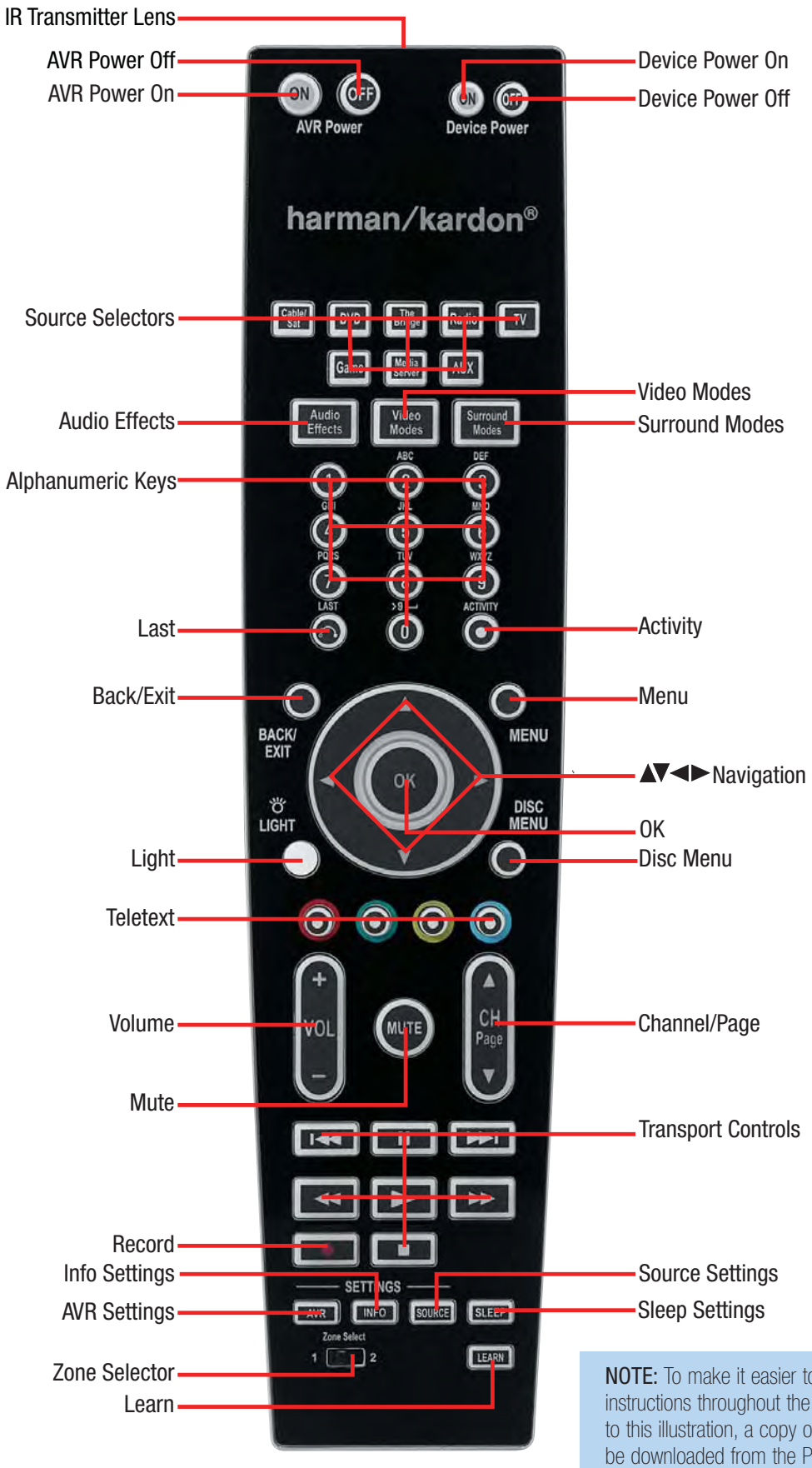
Zone Selector: Use this switch to select whether AVR commands will affect the main listening area (Zone 1) or the remote zone of a multizone system (Zone 2). For normal operation, leave the switch in the Zone 1 position.

Track Skip: These buttons have no effect on the receiver, but are used with source components to change tracks or chapters.

Transport Controls: These buttons have no effect on the receiver, but are used to control many source components.

Light: Press this button to illuminate the buttons on the remote. Press it again to turn the backlight off, or wait ten seconds after the last button press for the light to turn off on its own.

Learn: The AVR 3550HD remote is capable of "learning" individual IR codes from the original remote that came with your TV or a device that is connected to any of the source inputs. See Step Eight of the Installation section for instructions on learning remote codes.



NOTE: To make it easier to follow the instructions throughout the manual that refer to this illustration, a copy of this page may be downloaded from the Product Support section at www.harmankardon.com.

There are different types of audio and video connections used to connect the receiver to the speakers and video display, and to connect the source devices to the receiver. To make it easier to keep them all straight, the Consumer Electronics Association has established the CEA® color-coding standard. See Table 1.

Table 1 – Connection Color Guide

Audio Connections	Left	Right
Front **(FL/FR)**		
Center **(C)**		
Surround **(SL/SR)**		
Surround Back **(SBL/SBR)**		
Subwoofer **(SUB)**		
Digital Audio Connections		
Coaxial		
Optical	Input	
Video Connections		
Component	Y Pb Pr	
Composite		
S-Video		
HDMI™ Connections (digital audio/video)		
HDMI		

Types of Connections

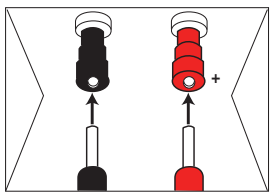
This section will briefly review different types of cables and connections.

Speaker Connections

Speaker cables carry an amplified signal from the receiver's speaker terminals to each loudspeaker. Speaker cables contain two wire conductors, or leads, inside plastic insulation. The two conductors are usually differentiated in some way, by using different colors, or stripes, or by adding a ridge to the insulation. Sometimes the wires are different, colors e.g. copper-colored and silver.

The differentiation is important because each speaker must be connected to the receiver's speaker-output terminals using two wires, one positive (+) and one negative (–), referred to as speaker polarity. It's important to maintain the proper polarity for all speakers in the system, or performance can suffer, especially for the low frequencies.

Always connect the positive terminal on the loudspeaker, which is usually colored red, to the positive terminal on the receiver, which is colored as shown in the Connection Color Guide (Table 1). Similarly, always connect the black negative terminal on the speaker to the black negative terminal on the receiver.



The AVR 3550HD uses binding-post speaker terminals that can accept banana plugs or bare-wire cables. Banana plugs are simply plugged into the hole in the middle of the terminal cap. See Figure 1.

Figure 1 – Binding-Post Speaker Terminals With Banana Plugs

Bare wire cables are installed as follows (see Figure 2):

1. Unscrew the terminal cap until the pass-through hole in the collar is revealed.
2. Insert the bare end of the wire into the hole.
3. Hand-tighten the cap until the wire is held snugly.

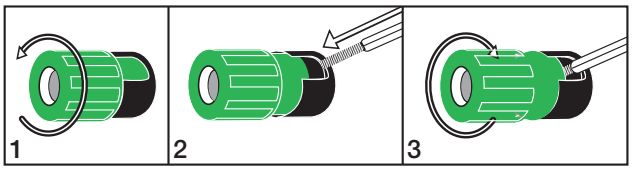


Figure 2 – Binding-Post Speaker Terminals With Bare Wires

Subwoofer

The subwoofer is a specialized type of loudspeaker used to play only the low frequencies (bass), which require much more power than the other speaker channels. In order to obtain the best results, most speaker manufacturers offer powered subwoofers, in which the speaker contains its own amplifier on board. Usually, a line-level (nonamplified) connection is made from the receiver's Subwoofer Output to a corresponding jack on the subwoofer, as shown in Figure 3, but sometimes the subwoofer is connected to the receiver using the front left and right speaker outputs, as with passive in-wall subwoofers, and then the front left and right speakers are connected to terminals on the subwoofer.

Although the subwoofer output looks similar to the analog audio jacks used for the various components, it is filtered and only allows the low frequencies to pass. Don't connect this output to any other devices. Although doing so won't cause any harm, performance will suffer.

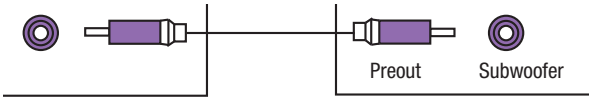


Figure 3 – Subwoofer

Connecting Source Devices to the AVR

The AVR 3550HD is designed to process audio and video input signals, playing back the audio and displaying the video on a television or monitor connected to the AVR. These signals originate in what are known as "source devices," including your DVD player, CD player, DVR (digital video recorder) or other recorder, tape deck, game console, cable or satellite television box or MP3 player. Although the tuner is built into the AVR, it also counts as a source, even though no external connections are needed, other than the FM and AM antennas and the XM antenna module.

Separate connections are required for the audio and video portions of the signal, except for digital HDMI connections. The types of connections used depend upon what's available on the source device, and for video signals, the capabilities of your video display.

CONNECTIONS

Audio Connections

There are two formats for audio connections: digital and analog. Digital audio signals are required for listening to sources encoded with digital surround modes, such as Dolby Digital and DTS, or for non-compressed PCM digital audio. There are three types of digital audio connections: HDMI, coaxial and optical. Any type of digital audio connection may be used for each source device, but never more than one for the same source. However, it's okay to make both analog and digital audio connections to the same source.

NOTE: Since HDMI signals may carry both audio and video, if your video display device has an HDMI input, make a single HDMI connection from your source device (such as a DVD player) to the AVR. No separate digital audio connection is usually required. Make sure to turn the volume on your television all the way down.

Digital Audio

The AVR 3550HD is equipped with three HDMI (High-Definition Multimedia Interface) inputs, and one output. HDMI technology enables digital audio and video information to be carried using a single cable, thus delivering the highest quality picture and sound.

There are different HDMI versions, depending on the capability of the source device and the type of signal it is capable of transmitting.

In addition, receivers and processors such as the AVR 3550HD may handle the incoming signal in several different ways, depending on their capability as well. The AVR 3550HD uses HDMI (V.1.3 with Deep Color) technology and is capable of processing both the audio and video components of the HDMI data, minimizing the number of cable connections in your system. The AVR 3550HD implements Deep Color, which increases by an order of magnitude the shades of color that can be displayed; and the latest lossless multichannel audio formats, including Dolby TrueHD and DTS-HD Master Audio.

NOTE: Some DVD-Audio, SACD, Blu-ray Disc and HD-DVD players, output mulitchannel audio only through the source's multichannel analog outputs. For those devices, make a separate analog audio connection in addition to the HDMI connection, which is still used for video and to listen to Dolby Digital, DTS or PCM materials that may be stored on the disc.

In addition, the AVR 3550HD will convert analog video signals to the HDMI format, upscaling to high-definition 1080p resolution. You may view the AVR 3550HD's own on-screen display menus using the HDMI output.

The physical HDMI connection is simple. The connector is shaped for easy plug-in (see Figure 4). If your video display has a DVI input and is HDCP-compliant, you may use an HDMI-to-DVI adapter (not included) to connect it to the AVR's HDMI Output, but a separate audio connection is required. HDMI cable runs are usually limited to about 10 feet, depending on the type of cable used.

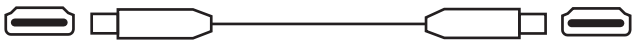


Figure 4 – HDMI Connection

If your video display or source device is not HDMI-capable, use one of the analog video connections (composite, S- or component video) and, if available on your source device, either a coaxial or optical digital audio connection.

Coaxial digital audio jacks are usually color-coded in orange. Although they look similar to analog jacks, they should not be confused, and you should not connect coaxial digital audio outputs to analog inputs or vice versa. See Figure 5.

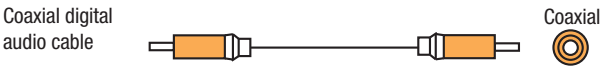


Figure 5 – Coaxial Digital Audio

Optical digital audio connectors are normally covered by a shutter to protect them from dust. The shutter opens as the cable is inserted. Input connectors are color-coded using a black shutter, while outputs use a gray shutter. See Figure 6.

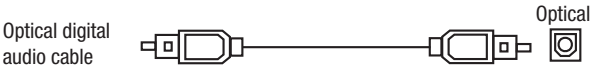


Figure 6 – Optical Digital Audio

Analog Audio

Analog connections require two cables, one for the left channel (white) and one for the right channel (red). These two cables are often attached to each other for most of their length. See Figure 7.

Most sources that have digital audio jacks also have analog audio jacks, although some older types of sources, such as tape decks, only have analog jacks. For sources that are capable of both digital and analog audio, you may make both connections.

The analog audio connection is strongly recommended if you intend to use the source with the multizone system. It's required if you will be using the multizone preamp outputs with an external amplifier to power your remote speakers, as the AVR 3550HD's multizone system is not capable of converting the digital signal to analog format. It's suggested that you also use the analog audio connections when using the Surround Back/Zone 2 speaker outputs, in case another two-channel digital audio source is in use in the main listening area. The AVR 3550HD is only capable of processing one PCM source at a time.

You may only record materials from DVDs or other copy-protected sources, using analog connections. Remember to comply with all copyright laws, if you choose to make a copy for your own personal use.

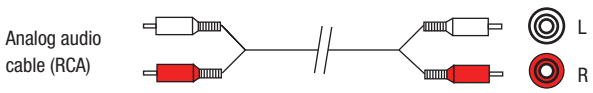


Figure 7 – Analog Audio

Multichannel analog connections are used with some high-definition sources where the copy-protected digital content is decoded inside the source. These types of connections are usually used with DVD-Audio, SACD, Blu-ray Disc, HD-DVD and other multichannel players. See Figure 8. However, the multichannel analog audio connection is not

required for DVD-Audio players compliant with HDMI version 1.1 or better, or HD-DVD and Blu-ray Disc players that decode the digital audio internally and output linear PCM signals in digital format. Consult the owner's guide for your disc player for more information.

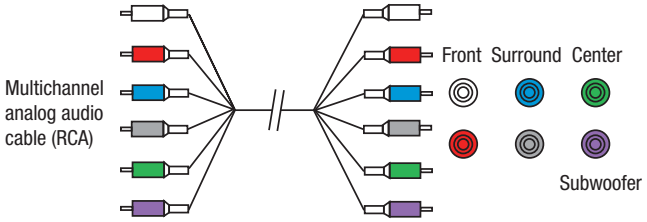


Figure 8 – Multichannel Analog Audio

Harman Kardon receivers also include a proprietary, dedicated audio connection called The Bridge II docking station for iPod. If you own a docking iPod (most models, 4G or later), connect The Bridge II (included) to The Bridge II port on the receiver. See Figure 9. Dock your iPod (not included) in The Bridge II, and you may listen to your audio materials through your high-performance audio system. You may view still images or video materials stored on a photo- or video-capable iPod that supports video browsing. You may even use the AVR 3550HD remote to control the iPod with navigation messages displayed on the front panel and on a video display connected to the AVR. The Bridge II outputs analog audio to the AVR 3550HD, and it is available to the multiroom system.

Figure 9 – The Bridge II port

Video Connections

Although some sources only produce an audio signal (e.g., CD player, tape deck), many sources output both audio and video signals (e.g., DVD player, cable television box, HDTV tuner, satellite box, VCR, DVR). In addition to the audio connection, make one type of video connection for each of these sources (only one at a time for any source).

Digital Video

If you have already connected a source device to one of the HDMI inputs as explained in the Digital Audio Connections section, you have automatically made a video connection at the same time, as the HDMI signal includes both digital audio and video components.

If the source device is not capable of transmitting its digital audio signal through the HDMI connection, use one of the coaxial or optical digital audio inputs for the source.

If a multichannel analog audio connection is required for certain lossless formats (e.g., DVD-Audio, SACD, Blu-ray Disc or HD-DVD), you may make both audio connections. To listen to the multichannel disc, set the Audio Auto Polling setting to the 6/8CH inputs, and the AVR will automatically select it when no digital signal is output by the player.

Analog Video

There are three types of analog video connections: composite video, S-video and component video.

Composite video is the basic connection most commonly available. The jack is usually color-coded yellow, and looks like an analog audio jack, although it is important never to confuse the two. Do not plug a composite video cable into an analog or coaxial digital audio jack, or vice versa. Both the chrominance (color) and luminance (intensity) components of the video signal are transmitted using a single cable. See Figure 10.

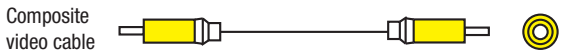


Figure 10 – Composite Video

S-video, or "separate" video, transmits the chrominance and luminance components using separate wires contained within a single cable. The plug on an S-video cable contains four metal pins, plus a plastic guide pin. Be careful to line up the plug correctly when you insert it into the jack on the receiver, source or video display. See Figure 11.

Figure 11 – S-Video

Component video separates the video signal into three components – one luminance ("Y") and two sub-sampled color signals ("Pb" and "Pr") – that are transmitted using three separate cables. The "Y" cable is color-coded green, the "Pb" cable is colored blue and the "Pr" cable is colored red. See Figure 12.

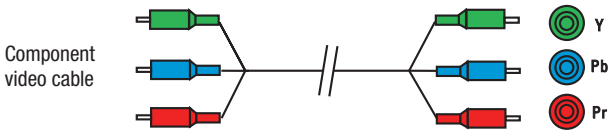


Figure 12 – Component Video

If it's available on your video display, an HDMI connection is recommended as the best quality connection, followed by component video, S-video and then composite video.

NOTES:

- Copy-protected sources are not available at the Component Video Monitor Outputs.
- Standard and high-definition analog video signals are upscaled to 1080i resolution for the Component Video Monitor Outputs. For improved video performance, consider upgrading to an HDMI-capable video display with 1080p resolution.

Antennas

The AVR 3550HD uses separate terminals for the included FM and AM antennas that provide proper reception for the tuner.

CONNECTIONS

The FM antenna uses a 75-ohm F-connector. See Figure 13.

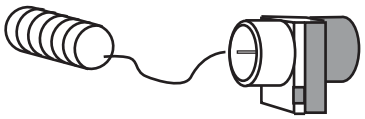


Figure 13 – FM Antenna

The AM loop antenna needs to be assembled. Connect the two leads to the spring terminals on the receiver. As AM antenna leads have no polarity, it doesn't matter which of the two terminals is used for either lead. See Figure 14.

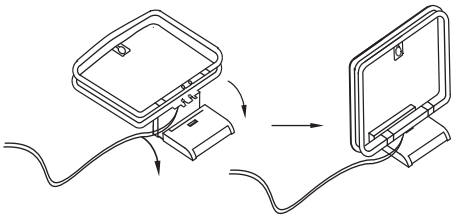


Figure 14 – AM Antenna

To enjoy XM satellite radio, purchase an XM antenna module designed for use with XM Ready devices and a subscription to the XM service. We recommend the XM Mini Tuner and Home Dock Bundle, available at www.xmradio.com. The older Connect-and-Play module is also compatible with the AVR 3550HD, but it may no longer be available in your area.

An XM Ready-compatible module uses the special connector on the AVR 3550HD's rear panel that allows you to use the AVR's tuner, including its 40 preset station locations and remote control. Although you may use a module with standard audio connections, which may be indicated for "car and home use," you will not be able to enjoy the AVR 3550HD's ease of control.

RS-232 Serial Port

The RS-232 serial port on the AVR 3550HD is used only for software upgrades. If we release an upgrade for the receiver's operating system at some time in the future, it may be downloaded to the AVR using this port. Complete instructions will be provided at that time.

OPERATION

Now that you have installed your system components and completed a basic configuration of your receiver, you are ready to begin enjoying your home theater system.

Turning On the AVR 3550HD

Flip the Main Power Switch on the rear panel up to the "On" position. The Power Indicator on the front panel should light up in amber. This indicates that the AVR is in Standby mode and is ready to be turned on. Normally, you may leave the Main Power Switch on, even when the receiver is not being used. See Figure 46.

There are several ways in which the AVR 3550HD may be turned on:

a) Press the Standby/On Switch on the front panel. See Figure 46.

b) Using the remote, press the AVR Power On Button or any of the Source Selectors. See Figure 47.

To turn the receiver off, press either the Standby/On Switch on the front panel, or press the AVR Power Off Button on the remote. Unless the receiver will not be used for an extended period of time (for example, when are on vacation), it is not necessary to turn off the Main Power Switch. When the Main Power Switch is turned off, any settings you have programmed, including system configuration and preset radio stations, will be preserved for up to four weeks.

IMPORTANT NOTE: If the PROTECT message ever appears in the Message Display, turn off the AVR and unplug it. Check all speaker wires for a possible short. If none is found, bring the unit to an authorized Harman Kardon service center for inspection and repair before using it again.

Volume Control

The volume may be adjusted either by turning the knob on the front panel (clockwise to increase volume or counterclockwise to decrease volume), or by pressing the Volume Control on the remote. See Figure 57. The volume is displayed as a negative number of decibels (dB) below the 0dB reference point.

Unlike the volume controls on some other products, 0dB is the maximum volume for the AVR 3550HD. Although it's physically possible to turn the volume to a higher level, doing so may damage your hearing and your speakers. For certain more dynamic audio materials, even 0dB may be too high, allowing for damage to equipment. We urge caution with regard to volume levels.

You may change the volume level display from the default decibel scale to a 0-to-100 scale by adjusting the Volume Units setting in the System Settings menu, as described on page 55.

Figure 57 – Volume Controls

Mute Function

To temporarily mute all speakers and the headphones, press the Mute Button on the remote. See Figure 57. Any recording in progress will not be affected. The MUTE message will appear in the display as a reminder. To restore normal audio, either press the Mute Button again, or adjust the volume. Turning off the AVR will also end muting.

Sleep Timer

You may program the AVR to play for up to 90 minutes and then turn off automatically using the sleep timer.

Press the Sleep Settings Button on the remote, and the time until turn-off will be displayed. See Figure 58. Each additional press of the Sleep Button will increase the time until turn-off by 10 minutes, up to a maximum of 90 minutes, then the SLEEP OFF setting appears, which disables the sleep timer.

Figure 58 – Sleep Settings Button

When the sleep timer has been set, the front-panel display will automatically dim to half-brightness. If you press any button on the remote or front panel, the display will return to full-brightness. The display will dim again several seconds after your last command.

If you press the Sleep Button after the timer has been set, the remaining time until turn-off will be displayed. You may press the Sleep Button to change the time until turn-off.

Audio Effects

Depending on your preferences or the specific characteristics of your listening room, you may wish to adjust some of the audio settings, such as tone controls, to improve performance. Access these settings from the Audio Effects submenu, as described in the Advanced Functions section.

It is not necessary to adjust the Audio Effects settings to enjoy your new AVR. We recommend leaving the settings at their default values until you are more familiar with your system.

Video Modes

The settings in the Video Modes menu are used to fine-tune the picture if necessary after making all adjustments on the video display. It is recommended that you leave the settings at their defaults. See the Advanced Functions section for detailed information.

Headphones

Plug the 1/4" plug on a pair of headphones into the headphone jack on the front of the receiver for private listening. See Figure 59.

The DOLBY H:BYPASS message indicates that Dolby Headphone surround processing is in the default bypass mode, which delivers a conventional 2-channel signal to the headphones.

Figure 59 – Headphone Jack

Press the Surround Modes Button on the front panel or the remote, to switch to Dolby Headphone virtual surround processing, indicated by the DOLBY H:DH message. Dolby Headphone delivers an enhanced sound field that emulates a 5.1-channel speaker system. No other surround modes are available for the headphones.

Source Selection

Press the front-panel Source List Button to scroll through the sources. Each press of the button scrolls down the list that appears in the display and on screen. See Figure 60.

Figure 60 – Source List Button

For direct access to any source, press its Source Selector on the remote.

The AVR 3550HD will switch to the audio and video inputs assigned to the source.

The source name will appear in the upper line of the front-panel display. If you retitled the source, the new title will appear. The audio and video inputs assigned to the source will also appear briefly. The surround mode will be displayed on the lower line.

Any other settings you adjusted in the Setup Source menu will also be selected. You may view these settings in the Source Info menu at any time by pressing the Info Settings Button.

VIDEO TROUBLESHOOTING TIPS:
If a video source is playing and there is no picture:

- Check that you have selected the source to which the video input was assigned.
- Check the wires for a loose or incorrect connection.
- Check that you have selected the correct video input on the display device (TV).
- Try pressing the Resolution Button on the front panel repeatedly until the correct video output resolution is selected and a picture appears. You will be prompted to accept or cancel the resolution change, as the CANCEL message will appear on the front panel. Press the ▼ Button to view the ACCEPT option, and then press the OK Button to complete the change to the output resolution.

Additional Tips for Systems Using HDMI:

- Turn off all devices (including the TV, AVR and any source components).
- Unplug the HDMI cables starting with the cable between the TV and AVR, and continuing with the cables between the AVR and each source device.
- Carefully reconnect the cables from the source devices to the AVR, and connect the cable from the AVR to the TV last.
- Turn on the devices in this order: TV, then AVR, then source devices.

Using the Tuner

To select the AVR 3550HD's built-in tuner:

1. Press the Source List Button on the front panel repeatedly until the desired tuner band is selected, or use the ▲/▼ Buttons to scroll through the source list.
2. Press the Radio Source Selector on the remote. Press this button again to switch bands (AM, FM or XM).

A screen similar to the one shown in Figure 61 will appear, with the band indicated in the middle of the screen. (The XM band uses a slightly different screen.)

Figure 61 – FM Radio

Use the ▲/▼ Buttons to tune a station (or channel for XM Radio). The frequencies will be displayed in the front panel and graphically on screen.

The AVR defaults to automatic tuning, meaning each press of the ▲/▼ Buttons scans through all frequencies until a station with acceptable signal strength is found. To switch to manual tuning, in which each press of the ▲/▼ Buttons steps through a single frequency increment (0.1MHz for FM, or 10kHz for AM), press the Menu Button. The Radio Modes line will be highlighted, and each press of the OK Button toggles between automatic and manual tuning modes.

When an FM station has been tuned, toggling the radio mode switches between stereo and monaural play, which may improve reception of weaker stations.

A total of 30 stations (AM and FM together) may be stored as presets. When the desired station has been tuned, press the OK Button, and two dashes will flash in the front-panel display. Use the Alphanumeric Keys to enter the desired preset number.

OPERATION

To tune a preset station, press the ◀/▶ Buttons or the Channel Control, or press the Menu Button to view the list of programmed presets and scroll to the desired selection. Press the OK Button to tune the station. You may also enter the preset number using the Numeric Keys. For presets 10 through 30 press 0 before the preset number. For example, to enter preset 21, press 0-2-1.

XM Radio Operation

XM Radio is a satellite-delivered service that offers hundreds of program channels, as well as local traffic and weather information for select cities. The AVR 3550HD is an XM Ready device, which means that it is able to receive the XM service when a user-supplied XM antenna module is connected and the service activated.

Select an antenna module designated for XM Ready audio components. An XM Ready-compatible module uses the special connector on the AVR 3550HD's rear panel that allows you to use the AVR's tuner, including its 40 preset station locations and remote control. Although you may use a module with standard audio connections, which may be indicated for "car and home use," you will not be able to enjoy the AVR 3550HD's ease of control.

The XM Mini-Tuner and Home Dock (Models CNP-2000 and CNP-2000H; both pieces are required) are compatible with the AVR 3550HD. The older Audiovox® CNP 1000 "Connect-and-Play" module for home audio use is also compatible, but has been discontinued and may no longer be available. Additional modules may become available in the future. Modules produced for automotive, or "mobile," use are not compatible with the AVR 3550HD, although if they have standard analog or digital audio outputs, they may be connected to a compatible input and operated using their own controls.

NOTE: To listen to XM Radio using the AVR 3550HD, you will need to purchase an XM antenna module and subscription, and activate your module. XM service is not available in Alaska or Hawaii. Visit the XM Radio Web site at www.xmradio.com for more information.

Plug the module into the XM Antenna Jack on the rear of the AVR 3550HD. Place the antenna module so that it has a clear view through a south-facing window in order to obtain reception from the XM satellite.

Select XM Radio as the source in one of these ways:

1. Press the Source List Button on the front panel repeatedly until XM Radio is selected, or use the ▲/▼ Buttons to scroll through the source list.

2. Press the Radio Source Selector on the remote repeatedly until XM Radio is selected..

You should be able to tune in Channel 1, the Preview Channel, to confirm that your equipment is ready for activation. There are four ways to tune an XM Radio channel:

1. Press the Menu Button to select a search mode: preset, category, all channels (the default) or direct entry.

2. Use the ▲/▼ Buttons to scan through the channel numbers in the default All Channel search mode. If you press the OK Button first, pressing the ▲/▼ Buttons will scan through any preset positions you have programmed (Preset search mode).

3. In Category search mode, use the ◀/▶ Buttons to jump to the next category, and then use the ▲/▼ Buttons to scan through the channel numbers within the category.

4. After you have programmed presets, directly enter the preset number (1 through 40) using the Alphanumeric Keys. For single-digit positions, enter a "0" before the number. Select Direct Entry search mode, and use the Alphanumeric Keys to select a channel directly.

When you are able to hear Channel 1, you are ready to activate your module. If you don't hear Channel 1, make sure the module's plug is firmly seated in the XM Antenna jack, and that the module is near a south-facing window. Try unfolding the module and rotating it to obtain reception. You may need to purchase an extension cable, available on the XM Radio site, to ensure that the module is near the window.

Tune to Channel 0 for a display of your antenna module's Radio ID number, required for activation.

The current channel number and preset location will appear in the upper line of the Message Display, and the search mode (all channels, category) will appear in the lower line. Three signal-strength bars will appear to the right of the channel number and preset location to indicate signal strength. The song title, artist and channel category, along with the channel number and preset position (if programmed), will all appear on screen when a video display is in use.

For traffic and weather channels, the current city's name will appear instead of the channel name, and the local weather and temperature will be displayed on screen.

To store a channel in one of the 40 preset locations:

1. Tune to the desired channel and press the OK Button. The lowest available preset number will flash on screen and in the front-panel Message Display.

2. Use the Alphanumeric Keys to enter the numbered preset location you wish to store the channel in, or do nothing if the current preset location is acceptable.

3. Press the OK Button to store the new preset.

Recording

Two-channel analog and digital audio signals, as well as composite and S-video signals, are normally available at the appropriate recording outputs. Thus, to make a recording, you need only make sure to connect your audio or video recorder to the appropriate output jacks, as described in the Installation section, insert blank media and make sure the recorder is turned on and recording while the source is playing.

NOTES:

1. Analog audio signals are not converted to digital form, and digital audio signals are not converted to analog audio form. However, you may record a coaxial or optical digital audio source using either type of digital audio output.
2. Only PCM digital audio signals are available for recording. Proprietary formats such as Dolby Digital and DTS may not be recorded using the digital audio connections, although if the source is connected to the AVR using analog audio connections, an analog recording may be made.
3. HDMI and component video sources are not available for recording.
4. Please make certain that you are aware of any copyright restrictions on any material you record. Unauthorized duplication of copyrighted materials is prohibited by federal law.

Using The Bridge II Docking Station

The Bridge II is an included dock that is compatible with most docking iPod models, 4G and later (not included). When The Bridge II is connected to its proprietary input on the AVR 3550HD and the iPod is docked, you may play the audio, video and still-image materials on your iPod through your high-quality audio/video system, operate the iPod using the AVR remote or the AVR's front-panel controls, view navigation messages on the AVR's front panel or a connected video display, and charge the iPod.

Either press the front-panel Source Selector repeatedly until the message "The Bridge is CONNECTED" appears in the front panel, or press The Bridge Source Selector on the remote. If the AVR has difficulty detecting that the iPod is connected and you have determined that The Bridge II is properly plugged into the AVR, turn off the AVR, remove the iPod from The Bridge II and reset the iPod as described in its user guide. When the iPod returns to its main menu, redock it and turn on the AVR.

When The Bridge II is connected, the screen shown in Figure 62 will appear on a video display connected to the AVR.

Figure 62 – The Bridge

Press the Menu Button to view the slide-out menu:

Back: This option appears while navigating the contents of the iPod only. Select it to return to the previous screen.

Music: Select this line to navigate the audio materials stored on the iPod.

Photos: Select this line to view still images stored on a photo-capable iPod. The system will switch to iPod Manual Mode, and control will shift to the iPod. Use the screen and controls on the iPod, although the AVR remote may be used for scrolling and selecting.

If the iPod supports video browsing, visual materials may be displayed on a video monitor connected to the AVR as follows: Select the desired photo and press the Play Button *on the iPod itself* to begin slideshow playback. If you use the AVR's remote, press the OK Button *three* times.

Videos: This line may appear, but cannot be selected. If the iPod supports video browsing, you may view videos on an external monitor by following this procedure: Select the Photos line in the on-screen menu so that the system switches to iPod Manual Mode. Use either the controls on the iPod or the AVR remote to select a video for playback, making sure the TV Out setting on the iPod is turned on.

NOTES ON VIDEO PLAYBACK:

- As of this writing, video browsing is only supported on the iPod 5G, iPod classic and iPod nano 3G. For other iPod models, it is not possible to view photos or videos on an external monitor while using The Bridge II. However, you may purchase a compatible A/V cable from Apple Inc. that has a dock connector on one end and conventional audio and video plugs on the other end. The audio/video plugs may be connected to any available analog inputs on the AVR, as you would for any other source device.
- Before attempting to view photos or videos stored on your iPod, check the Video Settings menu on the iPod and make sure that the TV Out setting is set to On. The TV Signal setting should be NTSC to match the capabilities of your video display. Set Widescreen to On or Off, depending on the aspect ratio of your video display. If your selection was playing and paused, the iPod requires you to reselect the video for the new TV Out setting to take effect.
- In iPod Manual Mode, the iPod menus will only be visible on the iPod screen itself. You may operate the iPod using the AVR remote, as long as it is in The Bridge device mode.
- The MP4 and H.264 video formats often used for videos to be played on the iPod are intended for optimal performance on the small screen of the iPod. Playback on larger displays may have different results.

After selecting photo or video viewing, the AVR may remain in iPod Manual Mode, even after undocking the iPod or switching to another source input and back again. To return to normal operation, with the AVR remote in The Bridge mode, press and hold the Menu Button.

Random: Select this setting for random playback, also known as "Shuffle Mode". Each press of the OK Button switches the setting: shuffle by Song, shuffle by Album, or Off to end random playback.

Repeat: Select this setting to repeat a track or all tracks in the current album or play list. Each press of the OK Button switches the setting: repeat Off, repeat One or repeat All.

OPERATION

NOTE: The iTunes application allows you to set certain selections to always be skipped in Shuffle mode. The AVR 3550HD's settings cannot override these iTunes settings.

Table 2 summarizes the controls available when The Bridge II is in use.

Table 2 – Using The Bridge II

iPod Function	Remote Control Key
Play	Play (▶)
Pause	Pause (II)
Menu	Menu
Select	OK
Scroll Reverse	Left Arrow (◀)
Scroll Forward	Right Arrow (▶)
Forward Search/Next Track	Forward/Next (▶▶)
Reverse Search/Previous Track	Reverse/Previous (◀◀)
Page Up/Down	Channel/Page Up/Down

While scrolling, hold the key to scroll faster. Use the Page Up/Down control on the remote to scroll a page at a time.

NOTES:

- The Play and Pause functions are not available unless content has been selected for playback by navigating the menu system.
- To search within a track, press and hold the indicated button. Pressing the Previous Track Button once skips to the beginning of the current track. Press the Previous Track Button *twice* to skip to the beginning of the previous track.

While a selection is playing, the song title, artist and album name, if available on the iPod, will appear in the upper line in the front-panel Message Display. The lower line will display the elapsed time of the track on the left, the play mode icon, and the time remaining on the right.

In addition, if a video monitor is connected to the AVR 3550HD and the system is not in iPod Manual Mode, it will display information about the status of the iPod and the track, including the play mode icon, the song title, artist and album. A graphic bar indicates the current play position within the track. If random or repeat play has been programmed, an icon will appear in the upper right corner.

After a period of time, the screen may disappear from view. The length of time is set using the Setup and Slide-In Menus setting in the System Settings menu (described in the Advanced Functions section). You may restore the Now Playing screen to view by pressing either of the ◀/▶ Buttons.

NOTE: It is strongly recommended that you use a screen saver built into your video display to avoid possible damage from "burn-in" that may occur with plasma and many CRT displays when a still image, such as a menu screen, remains on display for an extended period of time.

Selecting a Surround Mode

Surround mode selection can be as simple or sophisticated as your individual system and tastes. Feel free to experiment, and you may find a few favorites for certain sources or program types. More detailed information on surround modes may be found in the Advanced Functions section.

To select a surround mode, press the Surround Modes Button (front panel or remote) repeatedly until the desired option appears: SURR: AUTO SELECT, SURR: VIRTUAL, SURR: STEREO, SURR: MOVIE, SURR: MUSIC or SURR: GAME. The option will be displayed in the Lower Line of the Message Display, and the Surround Modes menu will appear on screen (see Figure 63).

Figure 63 – Surround Modes Menu

Auto Select: For digital programs, such as movies recorded with a Dolby Digital soundtrack, the AVR will automatically use the native surround format. For 2-channel analog and PCM programs, the AVR is programmed to default to Logic 7 Movie mode.

Virtual Surround: When only two main speakers are present in the system, Dolby Virtual Surround may be used to create an enhanced soundfield that virtualizes the missing speakers. Select between Wide and Reference modes, depending on your preferences.

Stereo: When 2-channel playback is desired, select the number of speakers used for playback:

- 2 CH STEREO for playback through only two speakers. As described on page 45, you may select Analog Bypass mode for a pure analog signal when analog audio inputs are in use. Simply set the Tone Control setting in the Audio Effects submenu to Off, and the AVR does the rest.
- 5 CH STEREO for playing the left-channel signal through the front and surround left speakers, the right-channel signal through the right speakers and a summed mono signal through the center speaker.
- 7 CH STEREO follows the same scheme as 5 CH STEREO, but adds the surround back speakers to the mix. This mode is only available when the surround back speakers are present and have not been reassigned to multizone operation. See the Initial Setup section for more information.

Movie: Select an analog surround mode for movie playback: Logic 7 Movie, DTS Neo:6 Cinema or Dolby Pro Logic II (IIx when seven main speakers are present). The desired mode may also be selected when a compatible digital surround mode is received.

TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	SOLUTION
Unit does not function when Main Power Switch is turned on	• 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
No sound from any speaker; PROTECT message appears on front panel	• 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 center
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 in line of sight of remote or connect an optional 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 the correct digital input is selected
Surround Back Speaker settings cannot be accessed, and test tone does not play through Surround Back Speakers	• Multizone system has been turned on, and the surround back channels were reassigned to multizone operation	• Use the menu system to access the Zone 2 menu and reassign the surround back channels to the main room.
The XM Preview Channel (001) is silent	• XM antenna is not plugged in • XM antenna is not located in such a way as to enable reception	• Make sure you are using a home audio XM antenna module designed for use with XM Ready home audio equipment, and that the module is plugged into the XM Radio Jack on the rear panel of the receiver. • The XM Antenna module needs to be placed with an unobstructed view of the southern sky, or within range of an XM terrestrial repeater. If necessary, purchase an extension cable from your XM Radio dealer.
Unable to activate Program mode on remote	• Source Selector not held for at least 3 seconds	• The selector will light as you initially press it, and go dark as you hold it down. Wait at least 3 seconds for the selector to light up again.
Remote behaves erratically	• Buttons are pressed too hard	• Always press remote control buttons as gently as possible.
Remote buttons light, but AVR does not respond	• Remote is in Zone 2 mode	• Slide the Zone Switch at the bottom of the remote to the Zone 1 position

Additional information on troubleshooting possible problems with your AVR 3550HD, or installation-related issues, may be found in the list of "Frequently Asked Questions", which is located in the Product Support section of our Web site at www.harmankardon.com.

Resetting the Remote

To reset the remote to its factory defaults, simultaneously press and hold the TV Source Selector and the "0" Alphanumeric Key. When the TV Button re-lights, enter the code "333". When the TV Button goes out, and all of the Source Selectors flash, the remote will have been fully reset.

Processor Reset

There may be instances when you wish to fully reset the AVR 3550HD to its factory defaults, or the unit may behave erratically after a power surge.

To correct erratic behavior, first try turning the Master Power Switch off and unplugging the AC power cord for at least three minutes. Plug the cord back in and turn the receiver back on. If this doesn't help, try a system reset.

NOTES:

- A system reset erases all user configurations, including video resolution, speaker and level settings, and tuner presets. After a reset, you will need to reenter all of these settings.
- The RS-232 Reset Button on the rear panel of the AVR 3550HD does not perform a system reset. DO NOT press the RS-232 Reset Button.

To reset the AVR 3550HD, place the receiver in Standby mode (press the front-panel Standby/On Switch so that the Power Indicator turns amber). Then press and hold the front-panel OK Button for at least five seconds until the RESET message appears in the display.

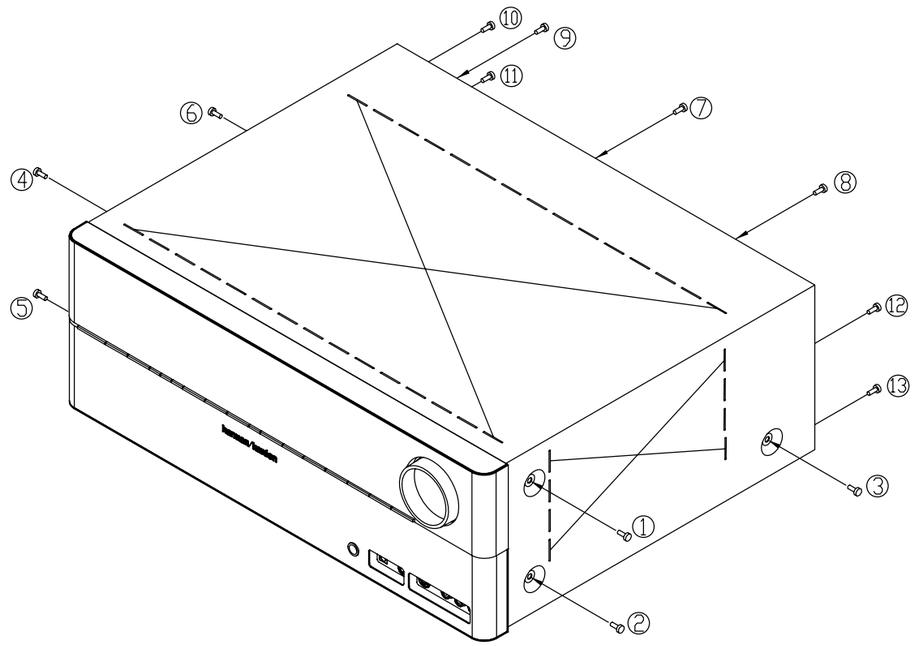
Follow the directions in the note on page 34 to restore the picture if necessary.

If the receiver still does not function correctly after a processor reset, contact an authorized Harman Kardon service center for assistance. Authorized service centers may be located by visiting the Web site at www.harmankardon.com.

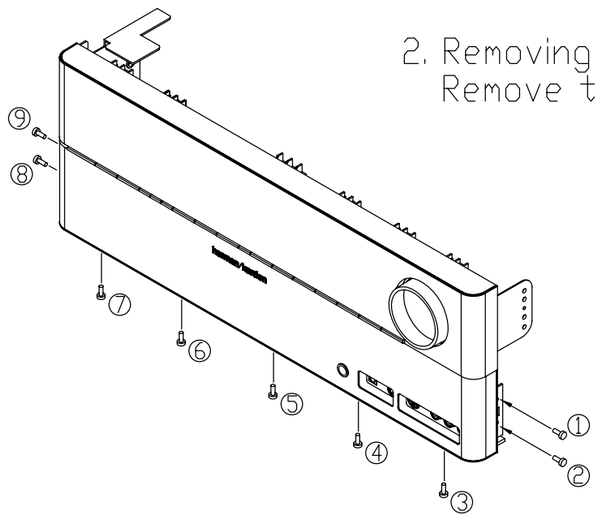
Memory

If the AVR 3550HD is unplugged or experiences a power outage, it will retain user settings for up to four weeks.

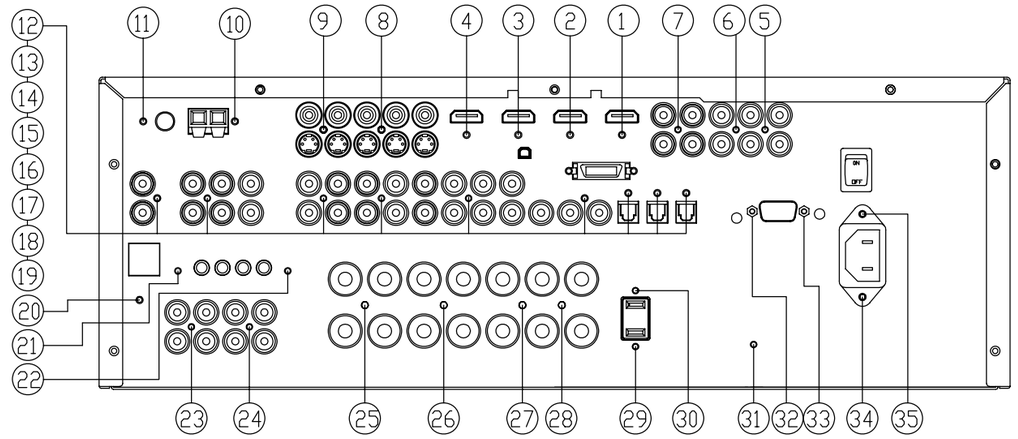
1. Removing the Top Cabinet
Remove the Screws ①~⑬



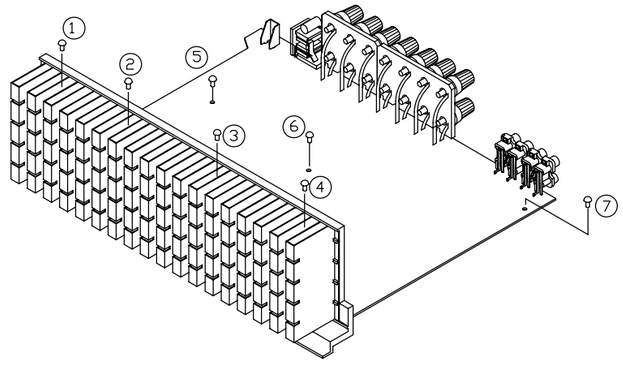
2. Removing the Front Panel
Remove the Screws ①~⑨

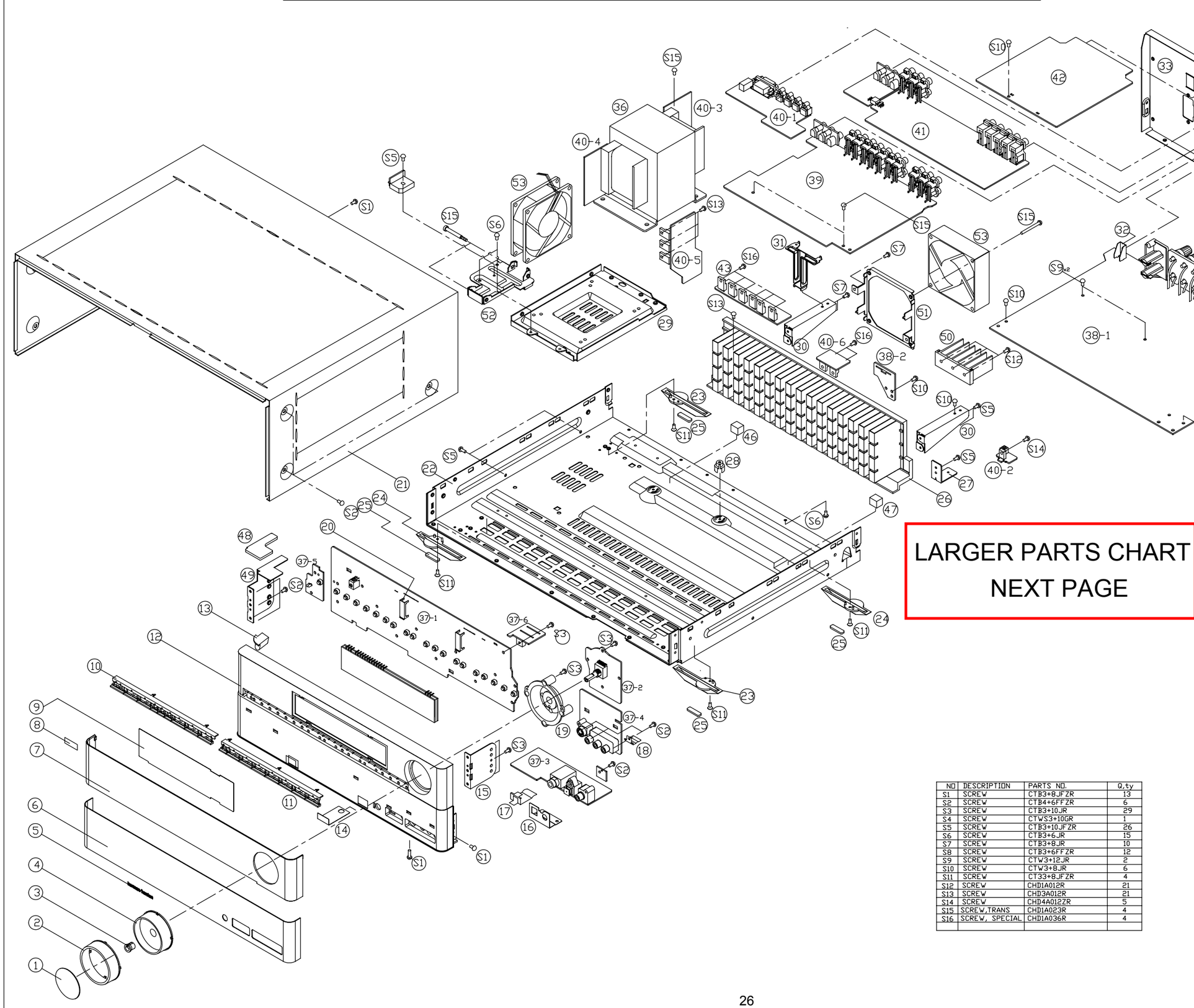


3. Removing the Rear Panel
Remove the Screws ①~㉟



4. Removing the Main PCB
Remove the Screws ①~⑦





LARGER PARTS CHART
NEXT PAGE

NO	DESCRIPTION	PARTS NO.	Q,ty
S1	SCREW	CTB3+8JFZR	13
S2	SCREW	CTB4+6FFZR	6
S3	SCREW	CTB3+10JR	29
S4	SCREW	CTWS3+10GR	1
S5	SCREW	CTB3+10JFZR	26
S6	SCREW	CTB3+6JR	15
S7	SCREW	CTB3+8JR	10
S8	SCREW	CTB3+6FFZR	12
S9	SCREW	CTW3+12JR	2
S10	SCREW	CTW3+8JR	6
S11	SCREW	CT33+8JFZR	4
S12	SCREW	CHD1A012R	21
S13	SCREW	CHD3A012R	21
S14	SCREW	CHD4A012ZR	5
S15	SCREW,TRANS	CHD1A023R	4
S16	SCREW, SPECIAL	CHD1A036R	4

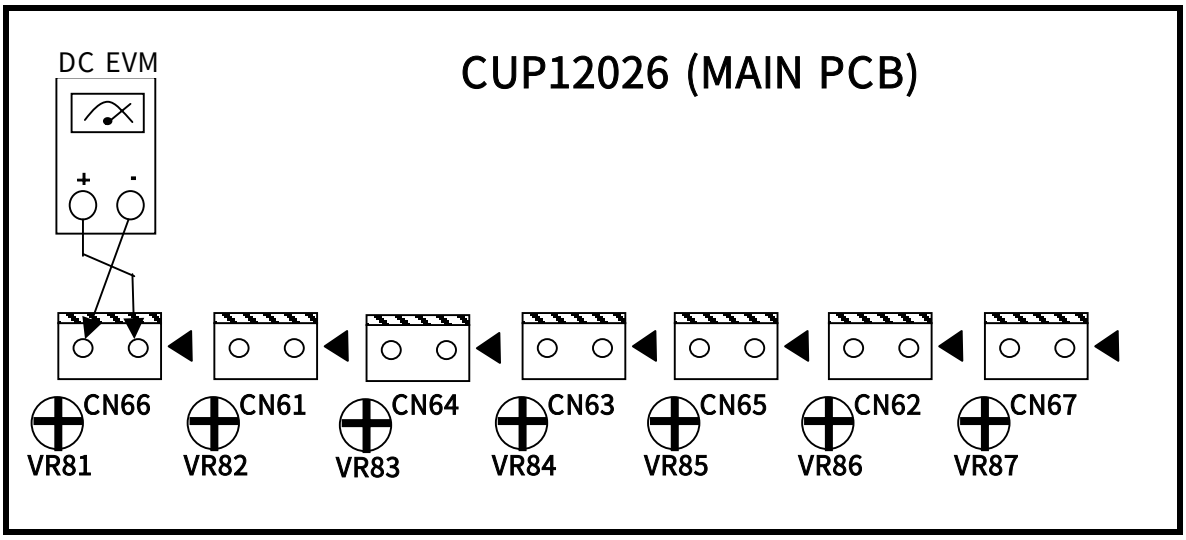
NO	DESCRIPTION	PARTS NO.	Q,ty	REMARK
1	ORNAMENT,VOLUME	CGU1A318Y	1	
2	CAP,VOLUME	CGX1A338MBC63	1	
3	HOLDER,VOLUME	CMH1A214	1	
4	INDICATOR,VOLUME	CGL1A222	1	
5	BADGE, HARMAN/KARDON	CGB1A158Y	1	
6	SHEET,AL FRONT	CGX2A390C66X	1	
7	WINDOW , FIP	CGU1A410A25W	1	
8	BADGE,AVR3550HD	CGB1A208Z	1	
9	FILTER , FIP	CMZ1A127	1	
10	KNOB , STANDBY	CBT1A1064	1	
11	KNOB , TUNING	CBT1A1065	1	
12	PANEL , FRONT	CGW2A447RHYB24	1	
13	INDICATOR , POWER	CGL1A265Y		
14	PLATE , EARTH	CMC2A338	1	
15	BRACKET , SIDE	CMD2A443	1	
16	PLATE , SHIELD	CMC1A323	1	
17	PLATE , EARTH	CMC2A325	1	
18	PLATE,EARTH	CMC2A326	1	
19	HOLDER , LED	CMH2A215	1	
20	BRACKET,FIP	CMD1A209	2	
21	CABINET,TOP	CKC6B145S60	1	
22	CHASSIS,BOTTOM	CUA1A282	1	
23	FOOT A	CKL1A094	2	
24	FOOT B	CKL1A095	2	
25	CUSHION , FOOT	CHG1A373	4	
26	HEAT SINK	CMY2A270	1	
27	BRACKET,PCB	CMD1A417	2	
28	HOLDER,PCB	CHE170	2	
29	BRACKET,TRANS	CMD2A487	1	
30	BRACKET,PCB(H/T)	CMD1A398	2	
31	BRACKET,PCB	CMD1A636	1	
32	BRACKET,PCB	CMD1A387	2	
33	PANEL,REAR	CKF4A337Z	1	
34				
35				
36	TRANS,POWER	CLT5W033ZU	1	
37	FRONT PCB ASS'Y	CDP12053G	1	
		37-1 FIP & KEY PCB	1	
		37-2 VOLUME PCB	1	
		37-3 PHONE PCB	1	
		37-4 VIDEO PCB	1	
		37-5 POWER LED PCB	1	
		37-6 GUIDE PCB(CARD CABLE)	1	
			1	
			1	
38	MAIN PCB ASS'Y	CDP12026G	1	
		38-1 MAIN PCB	1	
		38-2 GUIDE PCB(CARD CABLE)	1	
39	INPUT PCB ASS'Y	CDP12029G	1	
		39-6 REGULATOR PCB(C)	1	
40	POWER PCB ASS'Y	CDP12027G	1	
		40-1 DIGITAL IN/OUT PCB	1	
		40-2 REGULATOR PCB(A)	7	
		40-3 TRANS PCB	1	
		40-4 TRANS PCB	1	
		40-5 REGULATOR PCB(B)	1	
		40-6 REGULATOR PCB(C)	1	
		40-7 REMOTE IN/OUT PCB	1	
41	VIDEO PCB ASS'Y	CDP12033G	1	
42	HDMI MUX PCB ASS'Y	CDP12035G	1	
43	REGULATOR PCB ASS'Y	CDP12055G	1	
44	MULTI PCB ASS'Y	CDP12036G	1	
45	TUNER MODULE	CNVW901MS071L	1	
46	CUSHION	CHG1A160Z	1	
47	SUPPORT,CUSHION	CHG1A104Z	2	
48	MOMS SW ASS'Y	CSHAVR155ZA	1	
49	BRACKET , SIDE(L)	CMD1A355	1	
50	HEAT SINK	CMY2A249	1	
51	BRACKET , FAN	CMD1A600	1	
52	BRACKET , FAN	CMD2A615	1	
53	FAN , MOTOR	CFNCF12825HSN	2	

NO	DESCRIPTION	PART NO.		Q,ty	REMARK
1	ORNAMENT,VOLUME	CGU1A318Y		1	
2	CAP,VOLUME	CGX1A338MBC63		1	
3	HOLDER,VOLUME	CMH1A214		1	
4	INDICATOR,VOLUME	CGL1A222		1	
5	BADGE, HARMAN/KARDON	CGB1A158Y		1	
6	SHEET,AL FRONT	CGX2A390C66X		1	
7	WINDOW , FIP	CGU1A410A25W		1	
8	BADGE,AVR3550HD	CGB1A208Z		1	
9	FILTER , FIP	CMZ1A127		1	
10	KNOB , STANDBY	CBT1A1064		1	
11	KNOB , TUNING	CBT1A1065		1	
12	PANEL , FRONT	CGW2A447RHYB24		1	
13	INDICATOR , POWER	CGL1A265Y			
14	PLATE , EARTH	CMC2A338		1	
15	BRACKET , SIDE	CMD2A443		1	
16	PLATE , SHIELD	CMC1A323		1	
17	PLATE , EARTH	CMC2A325		1	
18	PLATE,EARTH	CMC2A326		1	
19	HOLDER , LED	CMH2A215		1	
20	BRACKET,FIP	CMD1A209		2	
21	CABINET,TOP	CKC6B145S60		1	
22	CHASSIS,BOTTOM	CUA1A282		1	
23	FOOT A	CKL1A094		2	
24	FOOT B	CKL1A095		2	
25	CUSHION , FOOT	CHG1A373		4	
26	HEAT SINK	CMY2A270		1	
27	BRACKET,PCB	CMD1A417		2	
28	HOLDER,PCB	CHE170		2	
29	BRACKET,TRANS	CMD2A487		1	
30	BRACKET,PCB(H/T)	CMD1A398		2	
31	BRACKET,PCB	CMD1A636		1	
32	BRACKET,PCB	CMD1A387		2	
33	PANEL,REAR	CKF4A337Z		1	
34					
35					
36	TRANS,POWER	CLT5W033ZU		1	
37	FRONT PCB ASS'Y			1	
		37-1	FIP & KEY PCB	1	
		37-2	VOLUME PCB	1	
		37-3	PHONE PCB	1	
		37-4	VIDEO PCB	1	
		37-5	POWER LED PCB	1	
		37-6	GUIDE PCB(CARD CABLE)	1	
				1	
				1	
38	MAIN PCB ASS'Y			1	
		38-1	MAIN PCB	1	
		38-2	GUIDE PCB(CARD CABLE)	1	
39	INPUT PCB ASS'Y			1	
		39-6	REGULATOR PCB(C)	1	
40	POWER PCB ASS'Y			1	
		40-1	DIGITAL IN/OUT PCB	1	
		40-2	REGULATOR PCB(A)	7	
		40-3	TRANS PCB	1	
		40-4	TRANS PCB	1	
		40-5	REGULATOR PCB(B)	1	
		40-6	REGULATOR PCB(C)	1	
		40-7	REMOTE IN/OUT PCB	1	
41	VIDEO PCB ASS'Y			1	
42	HDMI MUX PCB ASS'Y			1	
43	REGULATOR PCB ASS'Y			1	
44	MULTI PCB ASS'Y			1	
45	TUNER MODULE	CNVM9011MS071LA		1	
46	CUSHION	CHG1A160Z		1	
47	SUPPORT,CUSHION	CHG1A104Z		2	
48	MOMS SW ASS'Y	CSHAVR155ZA		1	
49	BRACKET , SIDE(L)	CMD1A555		1	
50	HEAT SINK	CMY2A249		1	
51	BRACKET , FAN	CMD1A600		1	
52	BRACKET , FAN	CMD2A615		1	
53	FAN , MOTOR	CFNCF12825HSN		2	

AMPLIFIER SECTION BIAS ADJUSTMENT

Measurement condition
.No input signal or volume position is minimum.

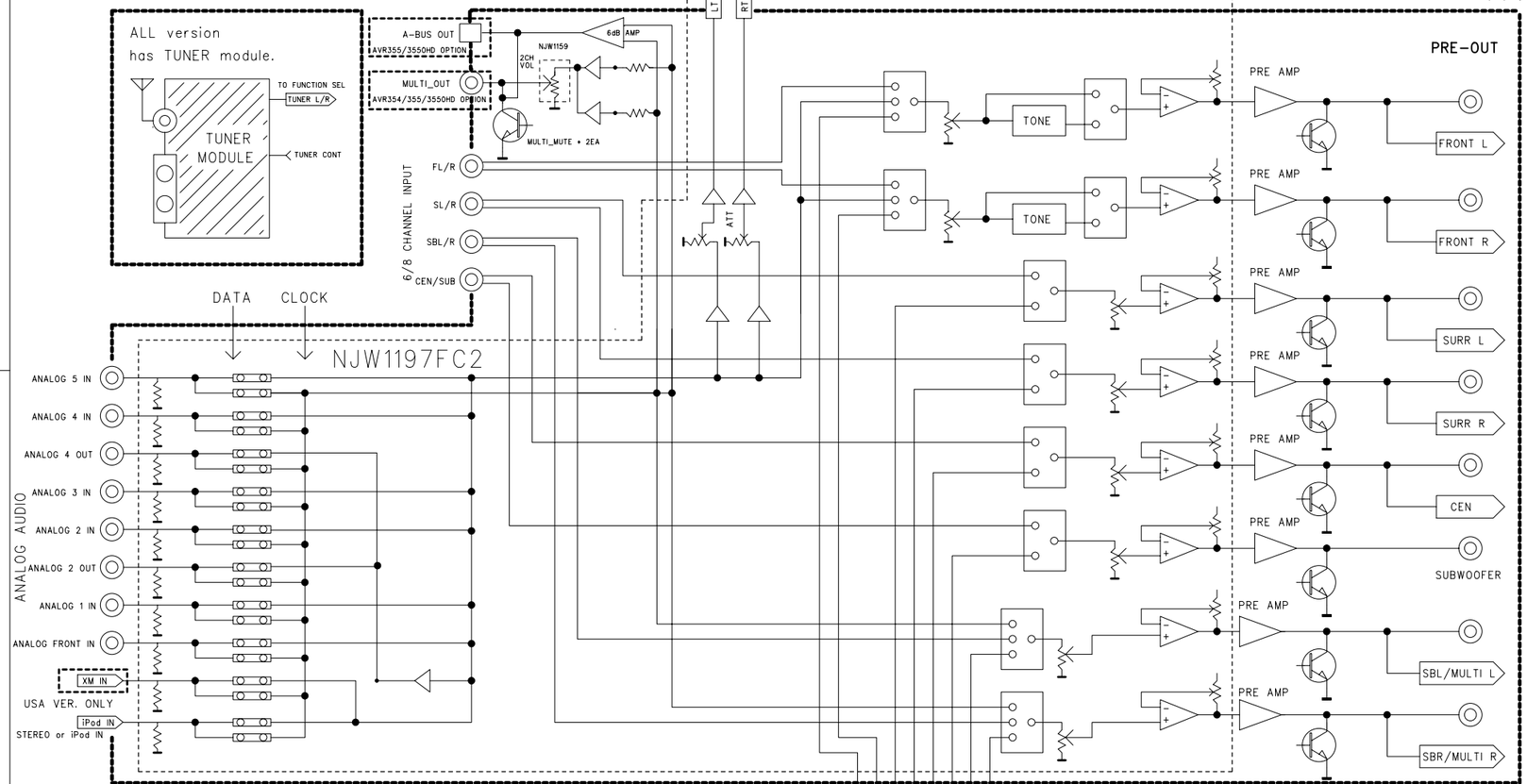
Standard value
.Ideal current = 48mA (± 5%)
.Ideal DC Voltage = 25.92mV (± 5%)

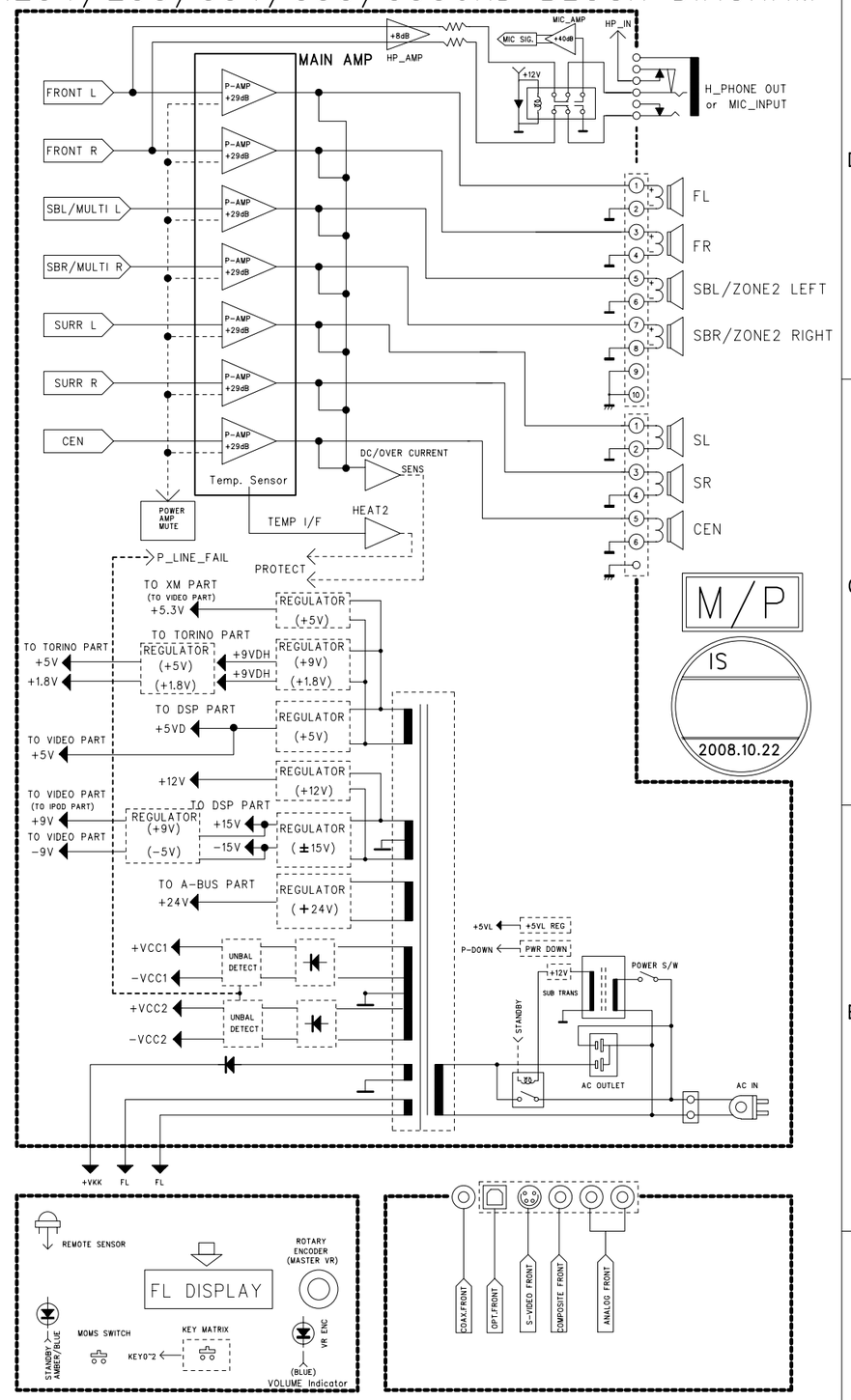


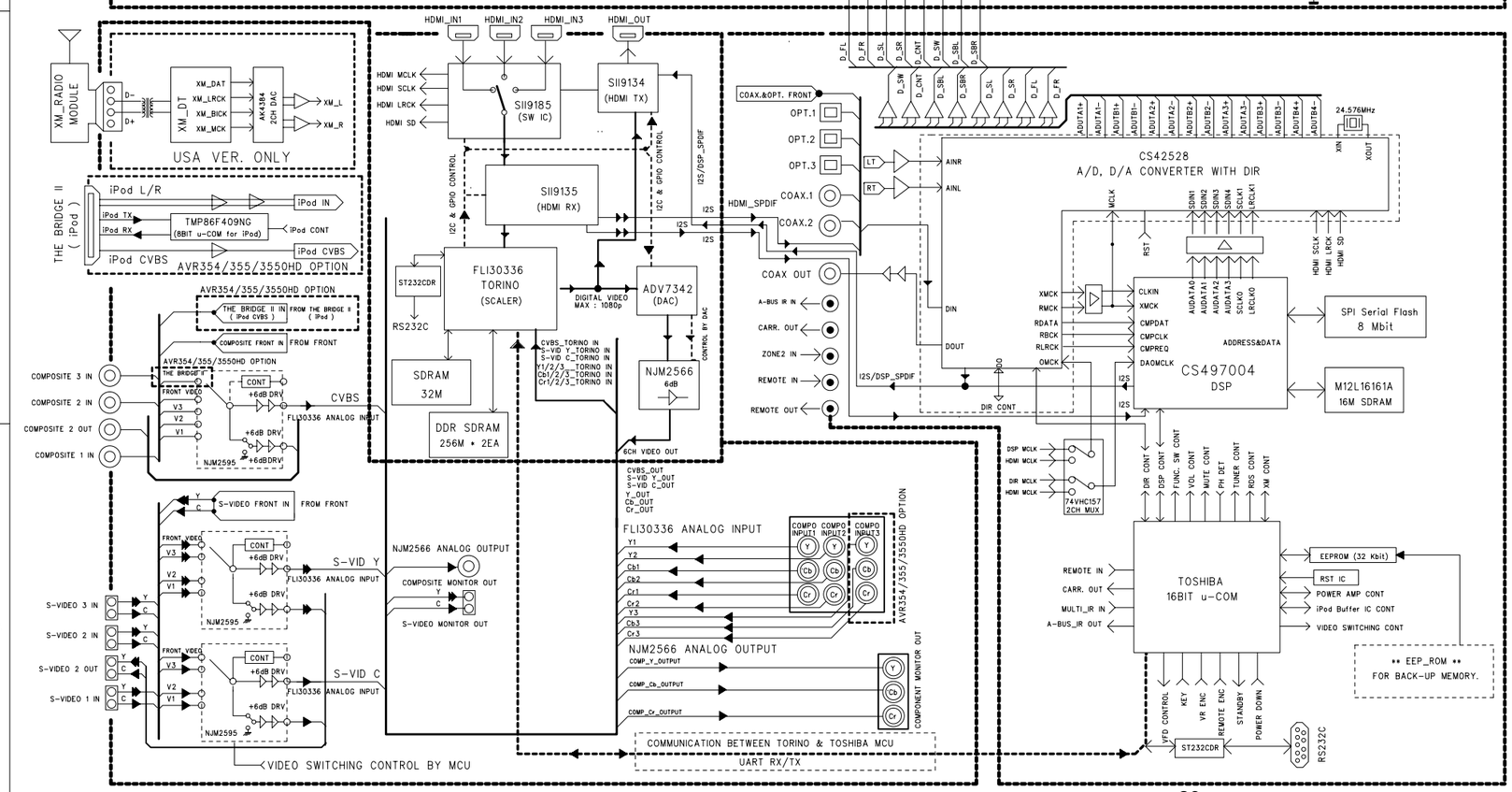
DC VOLTMETER ; Connect to
CN66(SL),CN61(CEN),CN64(SR),CN63(FL),CN65(SBL),CN62(FR),CN67(SBR)

NO.	Channel	Adjust for	Adjustment
1	Front Left	25.92mV (± 5%)	CN63
2	Front Right	25.92mV (± 5%)	CN62
3	Center	25.92mV (± 5%)	CN61
4	Surround Left	25.92mV (± 5%)	CN66
5	Surround Right	25.92mV (± 5%)	CN64
6	Surround Back Left	25.92mV (± 5%)	CN65
7	Surround Back Right	25.92mV (± 5%)	CN67

AVR254/255/354/355/3550HD BLOCK DIAGRAM







REVISION	2	4	6
1	3	5	7

SCHEMATIC DIAGRAM — SHEET 1/1

MODEL	AVR254/255/354/355/3550HD	
DESIGN	CHECK	APPROVE	DRAWING NO
S.H.Yang	W.Y.Yang	G.S.Wey	BLOCK DIAGRAM 2029BDMZ 1/1
08.10.22	08.10.22	08.10.22	

AVR3550HD Electrical Parts List					
Ref. Designator	Part Number	Description		Qty	
FRONT PCB ASSY		**CUP12053-1/2/3/4/5**			
Capacitors					
C714	CCBS1H151KBT	CAP , CERAMIC(150PF/50V)	150PF 50V K	1	EA
C716	CCEA1AH331T	CAP , ELECT	330UF 10V	1	EA
C719	CCBS1H102KBT	CAP , CERAMIC(1000PF/50V)	1000PF 50V K	1	EA
C720	CCBS1H102KBT	CAP , CERAMIC(1000PF/50V)	1000PF 50V K	1	EA
C721	CCBS1H102KBT	CAP , CERAMIC(1000PF/50V)	1000PF 50V K	1	EA
C723	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C728	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C729	CCBS1H473ZFT	CAP , CERAMIC(47000PF/50V)	0.047UF 50V Z	1	EA
C735	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C742	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V Z	1	EA
C793	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C794	CCBS1C222MXT	CAP , CERAMIC(2200PF/16V)	2200PF 16V	1	EA
C795	CCBS1H102KBT	CAP , CERAMIC(1000PF/50V)	1000PF 50V K	1	EA
C796	CCBS1H102KBT	CAP , CERAMIC(1000PF/50V)	1000PF 50V K	1	EA
C805	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V Z	1	EA
C806	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V Z	1	EA
C807	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C808	CCBS1H181KBT	CAP , CERAMIC(180PF/50V)	180PF 50V	1	EA
C809	CCEA1AH471T	CAP , ELECT	470UF 10V	1	EA
C812	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C817	CCBS1H100JCT	CAP , CERAMIC(10PF/50V)	0.1UF 50V Z	1	EA
C820	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C821	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C822	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C823	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C824	CCBS1H471KBT	CAP , CERAMIC(470PF/50V)	470PF 50V	1	EA
C825	CCBS1H151KBT	CAP , CERAMIC(150PF/50V)	150PF 50V	1	EA
C828	CCBS1H470JT	CAP , CERAMIC(47PF/50V)	47PF 50V	1	EA
C830	CCBS1H473ZFT	CAP , CERAMIC(47000PF/50V)	0.047F 50V	1	EA
C841	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C842	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C843	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C850	CCBS1H471KBT	CAP , CERAMIC(470PF/50V)	470PF 50V	1	EA
C851	CCBS1H471KBT	CAP , CERAMIC(470PF/50V)	470PF 50V	1	EA
C852	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C855	CCBS1H101KBT	CAP , CERAMIC(100PF/50V)	100PF 50V K	1	EA
C856	CCBS1H101KBT	CAP , CERAMIC(100PF/50V)	100PF 50V K	1	EA
C857	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C862	CCBS1H101KBT	CAP , CERAMIC(100PF/50V)	100PF 50V K	1	EA
C863	CCBS1H101KBT	CAP , CERAMIC(100PF/50V)	100PF 50V K	1	EA
C866	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C867	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C868	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C869	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C870	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	680PF 50V K	1	EA
C871	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	680PF 50V K	1	EA
C872	CCEA1CH331T	CAP , ELECT	330UF 16V	1	EA
C873	CCEA1CH331T	CAP , ELECT	330UF 16V	1	EA
C874	CCBS1H101KBT	CAP , CERAMIC(100PF/50V)	100PF 50V K	1	EA
C882	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C888	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C889	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C891	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V Z	1	EA
C892	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V Z	1	EA
C893	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V Z	1	EA
C894	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C896	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C897	CCEA1AH471T	CAP , ELECT	470UF 10V	1	EA
C903	CCEA1HKS2R2T	CAP , ELECT	2.2UF 50V SMALL SIZE	1	EA
C905	CCEA1HKS2R2T	CAP , ELECT	2.2UF 50V SMALL SIZE	1	EA
Semiconductors					
D455	CVD1SS133MT	DIODE	1SS133	1	EA
D730		WIRE , COPPER	SN95/PB5 , 0.6	0.02	M
D774	CVD1SS133MT	DIODE	1SS133	1	EA

Ref. Designator	Part Number	Description		Qty	
FRONT PCB ASSY		**CUP12053-1/2/3/4/5**			
D775	CVD1SS133MT	DIODE	1SS133	1	EA
D784	CVD1SS133MT	DIODE	1SS133	1	EA
D785	CVD1SS133MT	DIODE	1SS133	1	EA
Q451	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q452	HVTKRA107MT	TRANSISTOR PNP	KRA107M	1	EA
Q454	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q701	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q722	HVTKRA107MT	TRANSISTOR PNP	KRA107M	1	EA
Q724	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q725	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q734	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q735	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q736	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q737	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q738	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q739	HVTKTA1271YT	TRANSISTOR PNP	KTA1271Y	1	EA
Q740	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
D701	CVD1L0345W31BOCT201	L.E.D , WHITE	CVD1L0345W31BOCT201	1	EA
D703	CVD1L0345W31BOCT201	L.E.D , WHITE	CVD1L0345W31BOCT201	1	EA
D705	CVD1L0345W31BOCT201	L.E.D , WHITE	CVD1L0345W31BOCT201	1	EA
D723	CVD30ASOGCAA-S7	L.E.D , ORANGE	T0L-30ASOGCAA-S7	1	EA
D727	CVD1L0345W31BOCT201	L.E.D , WHITE	CVD1L0345W31BOCT201	1	EA
D778	HVD1N5819T	DIODE , SCHOTTKY	1N5819	1	EA
IC73	HRVNJL34H380A	SENSOR , REMOCON	JRC(NJL34H380A)	1	EA
IC75	HVI74ACT04MTR	I.C , HEX INVERTER	ST(74ACT04MTR)	1	EA
IC76	HVI74HCU04AFNG	I.C , INVERTER	TOSHIBIA(74HCU04AFNG)	1	EA
IC86	HVINJM4556AL	I.C , HEADPHONE	JRC(NJM4556AL)	1	EA
IC87	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068MTE1)	1	EA
Resistors					
R452	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R453	CRD20TJ362T	RES , CARBON	3.6K OHM 1/5W J	1	EA
R454	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R701	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R704	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R705	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R706	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R708	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R709	CRD20TJ470T	RES , CARBON	47 OHM 1/5W J	1	EA
R710	CRD20TJ470T	RES , CARBON	47 OHM 1/5W J	1	EA
R711	CRD20TJ470T	RES , CARBON	47 OHM 1/5W J	1	EA
R718	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J	1	EA
R721	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R722	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R723	CRD20TJ393T	RES , CARBON	39K OHM 1/5W J	1	EA
R724	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R725	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R727	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R737	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R747	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R753	CRD20TF1001T	RES , CARBON	1K /1/5W /F	1	EA
R754	CRD20TF1501T	RES , CARBON	1.5K /1/5W /F	1	EA
R755	CRD20TF1801T	RES , CARBON	1.8K /1/5W /F	1	EA
R756	CRD20TF2701T	RES , CARBON	2.7K /1/5W/F	1	EA
R757	CRD20TF3301T	RES , CARBON	3.3K /1/5W/F	1	EA
R758	CRD20TF5601T	RES , CARBON(5.6K/F)	5.6K /1/5W/F	1	EA
R759	CRD20TF1001T	RES , CARBON	1K /1/5W /F	1	EA
R760	CRD20TF1501T	RES , CARBON	1.5K /1/5W /F	1	EA
R761	CRD20TF1801T	RES , CARBON	1.8K /1/5W /F	1	EA
R762	CRD20TF2701T	RES , CARBON	2.7K /1/5W/F	1	EA
R763	CRD20TF3301T	RES , CARBON	3.3K /1/5W/F	1	EA
R764	CRD20TF5601T	RES , CARBON(5.6K/F)	5.6K /1/5W/F	1	EA
R765	CRD20TF7501T	RES , CARBON (7.5K/F)	7.5K /1/5W/F	1	EA
R781	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R782	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R783	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R784	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R786	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R787	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA

Ref. Designator	Part Number	Description		Qty	
FRONT PCB ASSY		**CUP12053-1/2/3/4/5**			
R791	CRD20TJ123T	RES , CARBON	12K OHM 1/5W J	1	EA
R805	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R806	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R824	CRD20TF2200T	RES , CARBON(220 OHM, 1%)	220 OHM 1/5W J	1	EA
R825	CRD20TF6800T	RES , CARBON(680 OHM, 1%)	680 OHM 1/5W J	1	EA
R864	CRD20TJ272T	RES , CARBON	2.7K OHM 1/5W J	1	EA
R865	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R866	CRD20TJ272T	RES , CARBON	2.7K OHM 1/5W J	1	EA
R869	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R871	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R872	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R873	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J	1	EA
R874	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J	1	EA
R875	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R876	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R877	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R878	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R892	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J	1	EA
R893	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J	1	EA
R895	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R896	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R897	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R898	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R899	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R900	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R901	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R902	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R903	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R904	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R905	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R906	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R907	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R908	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R909	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R910	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R911	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R912	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R913	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R915	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J	1	EA
R918	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R919	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R920	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R921	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R922	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R923	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R924	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R926	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R934	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J	1	EA
R935	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R936	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J	1	EA
R937	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
Miscellaneous					
VR74	CSR2A037Z	ENCODER		1	EA
L702	HLQ02C100KT	COIL , AXAIL	10uH	1	EA
S701	CST1A024ZT	SW , TACT		1	EA
S702	CST1A024ZT	SW , TACT		1	EA
S703	CST1A024ZT	SW , TACT		1	EA
S704	CST1A024ZT	SW , TACT		1	EA
S705	CST1A024ZT	SW , TACT		1	EA
S706	CST1A024ZT	SW , TACT		1	EA
S707	CST1A024ZT	SW , TACT		1	EA
S708	CST1A024ZT	SW , TACT		1	EA
S709	CST1A024ZT	SW , TACT		1	EA
S711	CST1A024ZT	SW , TACT		1	EA
S712	CST1A024ZT	SW , TACT		1	EA
S713	CST1A024ZT	SW , TACT		1	EA
S714	CST1A024ZT	SW , TACT		1	EA
S715	CST1A024ZT	SW , TACT		1	EA

Ref. Designator	Part Number	Description		Qty	
FRONT PCB ASSY		**CUP12053-1/2/3/4/5**			
BK71	CMD1A209	BRACKET , FLT	A4-92-1739	1	EA
BK72	CMD1A209	BRACKET , FLT	A4-92-1739	1	EA
BN10	CWZAVR155BN10	SHIELD WIRE ASS'Y(5P, 2MM, 350MM)	SHIELD WIRE ASS'Y(5P, 2MM, 350MM)	1	EA
BN18	CWZAVR355BN18A	5P FERRITE CORE WIRE ASS'Y (500MM, 2 CORE	5P FERRITE CORE WIRE ASS'Y (500MM, 2 CORE)	1	EA
	CLZ9Z028Z	FERRITE , CORE(21.2X6.4X12.7)	FERRITE , CORE(21.2X6.4X12.7)	2	EA
	CWZAVR355BN18Z	5P SHIELD WIRE ASS'Y (500mm)	5P SHIELD WIRE ASS'Y (500mm)	1	EA
BN22	CWZAVR155BN22A	7P FERRITE CORE WIRE ASS'Y(500MM, 2MM, 1 CORE)	7P FERRITE CORE WIRE ASS'Y(500MM, 2MM, 1 CORE)	1	EA
	CLZ9Z028Z	FERRITE , CORE(21.2X6.4X12.7)	FERRITE , CORE(21.2X6.4X12.7)	1	EA
	CWZAVR155BN22Z	7P WIRE ASS'Y (2mm,500mm)	7P WIRE ASS'Y (2mm,500mm)	1	EA
BN41	CWZAVR155BN41B	7P FERRITE CORE WIRE ASS'Y (500MM, 2MM)	7P FERRITE CORE WIRE ASS'Y (500MM, 2MM)	1	EA
	CLZ9Z028Z	FERRITE , CORE(21.2X6.4X12.7)	FERRITE , CORE(21.2X6.4X12.7)	1	EA
	CWZAVR155BN41ZB	7P WIRE ASS'Y 1core 2turn (2mm,500mm)	7P WIRE ASS'Y 1core 2turn (2mm,500mm)	1	EA
BN81	CWB1C907200BM	WIRE ASS'Y	WIRE ASS'Y	1	EA
BN84	CWB2B905080EN	WIRE ASS'Y	WIRE ASS'Y	1	EA
BN85	CWB2B903100EN	WIRE ASS'Y	WIRE ASS'Y	1	EA
BN88	CWB2B905050EN	WIRE ASS'Y	WIRE ASS'Y	1	EA
BN92	CWB2B905100EN	WIRE ASS'Y	WIRE ASS'Y	1	EA
CN72	CJP17GA117ZY	WAFER	WAFER	1	EA
CN84	CJP05GB46ZY	WAFER	WAFER	1	EA
CN85	CJP03GA19ZY	WAFER , STRAIGHT(3PIN)	WAFER , STRAIGHT(3PIN)	1	EA
CN88	CJP05GA19ZY	WAFER , STRAIGHT	WAFER , STRAIGHT	1	EA
CN92	CJP05GA19ZY	WAFER , STRAIGHT	WAFER , STRAIGHT	1	EA
ET03	CMD1A629	BRACKET , PCB		1	EA
FIP1	CFL17BT031GINAK	FIP , AVR355(17BT31GINAK)	FUTABA(17BT31GINAK)	1	EA
JK81	CJJ4M041Y	JACK , BOARD (COAX)		1	EA
JK82	HJSTORX177L	MODULE , OPTICAL(RX)	TORX177L	1	EA
JK83	CJJ2E026Z	JACK , HEADPHONE(SILVER PLATE)		1	EA
JK85	CJJ9M004Y	JACK , S-VHS (SILVER)		1	EA
JK86	CJJ4S028Y	JACK , BOARD (3P SILVER)		1	EA
JW83	CWE8202150RV	WIRE ASS'Y		1	EA
JW84	CWE8202150RV	WIRE ASS'Y		1	EA
JW88	CWE8202150RV	WIRE ASS'Y		1	EA
RL45	CSL4A016ZU	RELAY , 12V 2C2P	BC3-12H	1	EA
MAIN PCB/HEATSINK		**(CUP12026)**			
Capacitors					
C501	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C502	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C503	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C504	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C505	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C506	CCKT1H331KB	CAP , CERAMIC	330PF 50V K	1	EA
C507	CCBS1H331KBT	CAP , CERAMIC(330PF/50V)	330PF 50V	1	EA
C508	CCBS1H331KBT	CAP , CERAMIC(330PF/50V)	330PF 50V	1	EA
C509	CCKT1H331KB	CAP , CERAMIC	330PF 50V K	1	EA
C510	CCBS1H331KBT	CAP , CERAMIC(330PF/50V)	330PF 50V	1	EA
C561	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C562	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C564	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C565	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C566	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C567	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C568	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C569	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C570	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C571	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	680PF 50V	1	EA
C572	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	680PF 50V	1	EA
C573	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	680PF 50V	1	EA
C574	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	680PF 50V	1	EA
C575	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	680PF 50V	1	EA
C601	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
C602	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
C603	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
C604	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
C605	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
C606	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
C607	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
C608	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA

Ref. Designator	Part Number	Description		Qty	
MAIN PCB/HEATSINK		**(CUP12026)**			
C609	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
C610	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
C681	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C682	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C683	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C684	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C685	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C721	CCKT1H221KB	CAP , CERAMIC	220PF 50V K	1	EA
C722	CCKT1H221KB	CAP , CERAMIC	220PF 50V K	1	EA
C723	CCKT1H221KB	CAP , CERAMIC	220PF 50V K	1	EA
C724	CCKT1H221KB	CAP , CERAMIC	220PF 50V K	1	EA
C725	CCKT1H221KB	CAP , CERAMIC	220PF 50V K	1	EA
C726	CCKT1H221KB	CAP , CERAMIC	220PF 50V K	1	EA
C727	CCKT1H221KB	CAP , CERAMIC	220PF 50V K	1	EA
C728	CCKT1H221KB	CAP , CERAMIC	220PF 50V K	1	EA
C801	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C802	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C803	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
C804	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
C805	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
C806	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
C811	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C812	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C813	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C814	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C815	CCKT1H331KB	CAP , CERAMIC	330PF 50V K	1	EA
C816	CCBS1H331KBT	CAP , CERAMIC(330PF/50V)	330PF 50V	1	EA
C817	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C818	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C819	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	680PF 50V	1	EA
C820	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	680PF 50V	1	EA
C900	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C901	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C905	CCFT1H223ZF	CAP , CERAMIC	0.022UF 50V Z	1	EA
C907	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C908	CCFT1H223ZF	CAP , CERAMIC	0.022UF 50V Z	1	EA
C910	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C912	CCEA1EH221T	CAP , ELECT	220UF 25V	1	EA
C913	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V Z	1	EA
C914	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C917	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C918	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C919	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C920	CCEA1VH221T	CAP , ELECT	220UF 35V	1	EA
C921	CCEA1VH101T	CAP , ELECT	100UF 35V	1	EA
C924	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V Z	1	EA
C925	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V Z	1	EA
C932	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C933	CCEA1CH221T	CAP , ELECT	220UF 16V	1	EA
C934	CCFT1H223ZF	CAP , CERAMIC	0.022UF 50V Z	1	EA
C939	CCEA1HH4R7T	CAP , ELECT	4.7UF 50V	1	EA
C940	CCEA1AH471T	CAP , ELECT	470UF 10V	1	EA
C948	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V Z	1	EA
C950	CCEA1AH471T	CAP , ELECT	470UF 10V	1	EA
C971	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
C972	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
C973	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
C974	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
C975	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
C977	CCEA1EH330T	CAP , ELECT	33UF 25V	1	EA
C980	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
C981	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
C990	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C991	CCEA1HH1R0T	CAP , ELECT	1UF 50V	1	EA
C992	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C993	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C994	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C995	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C996	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C997	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA

Ref. Designator	Part Number	Description		Qty	
MAIN PCB/HEATSINK		**(CUP12026)**			
C999	CCFT1H223ZF	CAP , CERAMIC	0.022UF 50V Z	1	EA
C563	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C631	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C632	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C633	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C634	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C635	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C636	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C637	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C638	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C639	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C640	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C807	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C808	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C809	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C810	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
C902	CCET63VKL5822NK	CAP , ELECT	8200/63V (30*50)	1	EA
C904	KCKDKS472ME	CAP , CERAMIC(X1/Y2/SC)	0.0047UF/2.5KV	1	EA
C906	CCEA1VH102E	CAP , ELECT	1000UF 35V	1	EA
C909	CCET63VKL5822NK	CAP , ELECT	8200/63V (30*50)	1	EA
C911	CCEA1EH471E	CAP , ELECT	470UF/25V	1	EA
C915	CCET63VKL5123NK	CAP , ELECT	12000/63V (35*45)	1	EA
C916	CCET63VKL5123NK	CAP , ELECT	12000/63V (35*45)	1	EA
Semiconductors					
D501	CVD1SS133MT	DIODE	1SS133	1	EA
D502	CVD1SS133MT	DIODE	1SS133	1	EA
D503	CVD1SS133MT	DIODE	1SS133	1	EA
D504	CVD1SS133MT	DIODE	1SS133	1	EA
D505	CVD1SS133MT	DIODE	1SS133	1	EA
D581	CVD1SS133MT	DIODE	1SS133	1	EA
D582	CVD1SS133MT	DIODE	1SS133	1	EA
D583	CVD1SS133MT	DIODE	1SS133	1	EA
D584	CVD1SS133MT	DIODE	1SS133	1	EA
D585	CVD1SS133MT	DIODE	1SS133	1	EA
D801	CVD1SS133MT	DIODE	1SS133	1	EA
D802	CVD1SS133MT	DIODE	1SS133	1	EA
D803	CVD1SS133MT	DIODE	1SS133	1	EA
D804	CVD1SS133MT	DIODE	1SS133	1	EA
D901	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
D902	CVD1SS133MT	DIODE	1SS133	1	EA
D903	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D911	CVD1SS133MT	DIODE	1SS133	1	EA
D912	CVD1SS133MT	DIODE	1SS133	1	EA
D914	CVD1SS133MT	DIODE	1SS133	1	EA
D917	CVD1SS133MT	DIODE	1SS133	1	EA
D953	CVD1SS133MT	DIODE	1SS133	1	EA
D954	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
D955	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
D956	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
D957	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
D961	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D962	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
D963	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
D964	CVD1SS133MT	DIODE	1SS133	1	EA
D967	CVD1SS133MT	DIODE	1SS133	1	EA
D968	CVD1SS133MT	DIODE	1SS133	1	EA
D969	CVD1SS133MT	DIODE	1SS133	1	EA
D971	CVD1SS133MT	DIODE	1SS133	1	EA
D972	CVD1SS133MT	DIODE	1SS133	1	EA
D973	CVD1SS133MT	DIODE	1SS133	1	EA
D974	CVD1SS133MT	DIODE	1SS133	1	EA
D975	CVD1SS133MT	DIODE	1SS133	1	EA
D976	CVD1SS133MT	DIODE	1SS133	1	EA
D979	CVDZJ5.1BT	DIODE , ZENER	ZJ5.1B 1/2W	1	EA
IC97	HVIRE5VT28CATZ	I.C , RESET	RICOH(RE5VT28CATZ)	1	EA
Q501	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q502	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q503	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA

Ref. Designator	Part Number	Description		Qty	
MAIN PCB/HEATSINK		**(CUP12026)**			
Q504	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q505	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q511	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q512	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q513	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q514	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q515	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q516	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q517	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q518	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q519	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q520	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q541	HVTKTC3198YT	TRANSISTOR NPN	KTC3198Y	1	EA
Q542	HVTKTC3198YT	TRANSISTOR NPN	KTC3198Y	1	EA
Q543	HVTKTC3198YT	TRANSISTOR NPN	KTC3198Y	1	EA
Q544	HVTKTC3198YT	TRANSISTOR NPN	KTC3198Y	1	EA
Q545	HVTKTC3198YT	TRANSISTOR NPN	KTC3198Y	1	EA
Q556	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q557	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q558	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q559	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q560	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q561	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q562	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q563	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q564	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q565	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q601	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q602	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q603	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q604	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q605	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q681	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q682	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q683	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q684	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q685	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q801	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q802	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q812	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q813	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q814	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q815	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q816	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q817	HVTKTA1268GRT	TRANSISTOR PNP	KTA1268GR	1	EA
Q818	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q819	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q820	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q821	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q822	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q823	HVTKTC3200GRT	TRANSISTOR NPN	KTC3200GR	1	EA
Q824	HVTKTC3198YT	TRANSISTOR NPN	KTC3198Y	1	EA
Q825	HVTKTC3198YT	TRANSISTOR NPN	KTC3198Y	1	EA
Q901	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q911	HVTKTA1271YT	TRANSISTOR PNP	KTA1271Y	1	EA
Q912	HVTKTA1271YT	TRANSISTOR PNP	KTA1271Y	1	EA
Q913	HVTKTA1271YT	TRANSISTOR PNP	KTA1271Y	1	EA
Q914	HVTKTA1271YT	TRANSISTOR PNP	KTA1271Y	1	EA
Q915	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q916	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q917	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q918	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q938	HVTKRA107MT	TRANSISTOR PNP	KRA107M	1	EA
Q939	HVTKRA107MT	TRANSISTOR PNP	KRA107M	1	EA
Q941	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q942	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q943	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
Q951	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q952	HVTKRA107MT	TRANSISTOR PNP	KRA107M	1	EA
Q960	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA

Ref. Designator	Part Number	Description		Qty	
MAIN PCB/HEATSINK		**(CUP12026)**			
Q961	HVTKTA1024YT	TRANSISTOR PNP	KTA1024YT	1	EA
Q991	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q992	HVTKRA107MT	TRANSISTOR PNP	KRA107M	1	EA
Q993	HVTKRA107MT	TRANSISTOR PNP	KRA107M	1	EA
Q994	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q997	HVTKRA107MT	TRANSISTOR PNP	KRA107M	1	EA
Q998	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
Q652	HVT2SB1647-OKM	TRANSISTOR , POWER, PNP	SAKEN(2SB1647-OKM)	1	EA
Q653	HVT2SB1647-OKM	TRANSISTOR , POWER, PNP	SAKEN(2SB1647-OKM)	1	EA
Q654	HVT2SB1647-OKM	TRANSISTOR , POWER, PNP	SAKEN(2SB1647-OKM)	1	EA
Q655	HVT2SB1647-OKM	TRANSISTOR , POWER, PNP	SAKEN(2SB1647-OKM)	1	EA
Q657	HVT2SD2560-OKM	TRANSISTOR , POWER, NPN	SAKEN(2SD2560-OKM)	1	EA
Q658	HVT2SD2560-OKM	TRANSISTOR , POWER, NPN	SAKEN(2SD2560-OKM)	1	EA
Q659	HVT2SD2560-OKM	TRANSISTOR , POWER, NPN	SAKEN(2SD2560-OKM)	1	EA
Q660	HVT2SD2560-OKM	TRANSISTOR , POWER, NPN	SAKEN(2SD2560-OKM)	1	EA
Q661	HVT2SB1647-OKM	TRANSISTOR , POWER, PNP	SAKEN(2SB1647-OKM)	1	EA
Q670	HVT2SD2560-OKM	TRANSISTOR , POWER, NPN	SAKEN(2SD2560-OKM)	1	EA
Q803	HVT2SD2560-OKM	TRANSISTOR , POWER, NPN	SAKEN(2SD2560-OKM)	1	EA
Q804	HVT2SB1647-OKM	TRANSISTOR , POWER, PNP	SAKEN(2SB1647-OKM)	1	EA
Q805	HVT2SD2560-OKM	TRANSISTOR , POWER, NPN	SAKEN(2SD2560-OKM)	1	EA
Q807	HVT2SB1647-OKM	TRANSISTOR , POWER, PNP	SAKEN(2SB1647-OKM)	1	EA
Q858	HVT2SA1360O	TRANSISTOR , POWER, PNP	2SA1360O	1	EA
Q871	HVT2SA1360O	TRANSISTOR , POWER, PNP	2SA1360O	1	EA
Q872	HVT2SA1360O	TRANSISTOR , POWER, PNP	2SA1360O	1	EA
Q874	HVT2SA1360O	TRANSISTOR , POWER, PNP	2SA1360O	1	EA
Q875	HVT2SA1360O	TRANSISTOR , POWER, PNP	2SA1360O	1	EA
Q876	HVT2SA1360O	TRANSISTOR , POWER, PNP	2SA1360O	1	EA
Q877	HVT2SA1360O	TRANSISTOR , POWER, PNP	2SA1360O	1	EA
Q881	HVT2SC3423O	TRANSISTOR , POWER, NPN	2SC3423O	1	EA
Q882	HVT2SC3423O	TRANSISTOR , POWER, NPN	2SC3423O	1	EA
Q883	HVT2SC3423O	TRANSISTOR , POWER, NPN	2SC3423O	1	EA
Q884	HVT2SC3423O	TRANSISTOR , POWER, NPN	2SC3423O	1	EA
Q885	HVT2SC3423O	TRANSISTOR , POWER, NPN	2SC3423O	1	EA
Q886	HVT2SC3423O	TRANSISTOR , POWER, NPN	2SC3423O	1	EA
Q887	HVT2SC3423O	TRANSISTOR , POWER, NPN	2SC3423O	1	EA
IC94	HVIKIA7805API	REGULATOR, +5V	7805API (KEC)	1	EA
Resistors					
R501	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J	1	EA
R502	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J	1	EA
R503	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J	1	EA
R504	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J	1	EA
R505	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J	1	EA
R506	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J	1	EA
R507	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J	1	EA
R508	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J	1	EA
R509	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J	1	EA
R510	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J	1	EA
R511	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R512	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R513	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R514	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R515	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R516	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R517	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R518	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R519	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R520	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R521	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J	1	EA
R522	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J	1	EA
R523	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J	1	EA
R524	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J	1	EA
R525	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J	1	EA
R531	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R532	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R533	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R534	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R535	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R536	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA

Ref. Designator	Part Number	Description		Qty	
MAIN PCB/HEATSINK		**(CUP12026)**			
R537	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R538	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R539	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R540	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R541	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J	1	EA
R542	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J	1	EA
R543	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J	1	EA
R544	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J	1	EA
R545	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J	1	EA
R556	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J	1	EA
R557	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J	1	EA
R558	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J	1	EA
R559	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J	1	EA
R560	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J	1	EA
R561	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J	1	EA
R562	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J	1	EA
R563	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J	1	EA
R564	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J	1	EA
R565	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J	1	EA
R566	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R567	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R568	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R569	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R570	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R571	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R572	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R573	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R574	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R575	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R576	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R577	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R578	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R579	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R580	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R581	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R582	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R583	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R584	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R585	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R586	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R587	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R588	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R589	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R590	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R591	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R592	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R593	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R594	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R595	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R596	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R597	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R598	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R599	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R600	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R601	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R602	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R603	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R604	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R605	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R606	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R607	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R608	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R609	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R610	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R611	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R612	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R631	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R632	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R633	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R634	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA

Ref. Designator	Part Number	Description		Qty	
MAIN PCB/HEATSINK		**(CUP12026)**			
R635	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R636	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R637	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R638	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R639	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R640	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R646	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R647	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R648	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R649	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R650	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R651	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R652	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R653	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R654	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R655	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R666	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R667	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R668	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R669	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R670	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R671	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R672	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R673	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R674	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R675	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R676	CRD25TJ182T	RES , CARBON	1.8K OHM 1/4W J	1	EA
R677	CRD25TJ182T	RES , CARBON	1.8K OHM 1/4W J	1	EA
R678	CRD25TJ182T	RES , CARBON	1.8K OHM 1/4W J	1	EA
R679	CRD25TJ182T	RES , CARBON	1.8K OHM 1/4W J	1	EA
R680	CRD25TJ182T	RES , CARBON	1.8K OHM 1/4W J	1	EA
R681	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R682	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R683	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R684	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R685	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R686	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R687	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R688	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R689	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R690	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R696	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R697	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R698	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R699	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R700	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R701		WIRE , COPPER	SN95/PB5 , 0.6	0.02	M
R702		WIRE , COPPER	SN95/PB5 , 0.6	0.02	M
R703		WIRE , COPPER	SN95/PB5 , 0.6	0.02	M
R704		WIRE , COPPER	SN95/PB5 , 0.6	0.02	M
R705		WIRE , COPPER	SN95/PB5 , 0.6	0.02	M
R706		WIRE , COPPER	SN95/PB5 , 0.6	0.02	M
R707		WIRE , COPPER	SN95/PB5 , 0.6	0.02	M
R708		WIRE , COPPER	SN95/PB5 , 0.6	0.02	M
R771	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R772	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R773	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R774	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R775	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R776	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R777	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R781	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R782	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R783	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R784	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R785	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R786	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R787	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J	1	EA
R801	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R802	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA

Ref. Designator	Part Number	Description		Qty	
MAIN PCB/HEATSINK		**(CUP12026)**			
R803	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R804	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R805	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R807	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R808	CRD25TJ182T	RES , CARBON	1.8K OHM 1/4W J	1	EA
R809	CRD25TJ182T	RES , CARBON	1.8K OHM 1/4W J	1	EA
R812	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R813	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R814	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R815	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J	1	EA
R817	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R818	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R819	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R820	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R821	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R822	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R823	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R824	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R830	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R831	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R832	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R833	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R834	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R835	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R836	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R837	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R838	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R839	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R840	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R841	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R842	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R843	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R844	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R845	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R848	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J	1	EA
R849	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J	1	EA
R850	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J	1	EA
R851	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J	1	EA
R852	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R853	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R854	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R855	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R856	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R857	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R858	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R859	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J	1	EA
R860	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J	1	EA
R861	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J	1	EA
R862	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J	1	EA
R863	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J	1	EA
R870	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J	1	EA
R871	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J	1	EA
R872	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J	1	EA
R873	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J	1	EA
R900	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J	1	EA
R901	CRD25TJ393T	RES , CARBON	39K OHM 1/4W J	1	EA
R902	CRD25TJ393T	RES , CARBON	39K OHM 1/4W J	1	EA
R903	CRD25TJ393T	RES , CARBON	39K OHM 1/4W J	1	EA
R906	CRD25TJ393T	RES , CARBON	39K OHM 1/4W J	1	EA
R907	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R908	CRD20TJ105T	RES , CARBON	1M OHM 1/5W J	1	EA
R909	CRD20TJ682T	RES , CARBON	6.8K OHM 1/5W J	1	EA
R910	CRD20TJ105T	RES , CARBON	1M OHM 1/5W J	1	EA
R912	CRD20TJ332T	RES , CARBON	3.3K OHM 1/5W J	1	EA
R913	CRD25TJ471T	RES , CARBON	470 OHM 1/4W J	1	EA
R914	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R917	CRD25TJ393T	RES , CARBON	39K OHM 1/4W J	1	EA
R918	CRD25TJ393T	RES , CARBON	39K OHM 1/4W J	1	EA
R919	CRD25TJ393T	RES , CARBON	39K OHM 1/4W J	1	EA
R920	CRD25TJ393T	RES , CARBON	39K OHM 1/4W J	1	EA

Ref. Designator	Part Number	Description		Qty	
MAIN PCB/HEATSINK		**(CUP12026)**			
R921	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J	1	EA
R923	CRD20TJ220T	RES , CARBON	22 OHM 1/5W J	1	EA
R924	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J	1	EA
R925	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J	1	EA
R926	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J	1	EA
R927	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J	1	EA
R928	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J	1	EA
R929	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J	1	EA
R930	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J	1	EA
R931	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J	1	EA
R932	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R933	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R934	CRD20TJ823T	RES , CARBON	82K OHM 1/5W J	1	EA
R935	CRD20TJ154T	RES , CARBON	150K OHM 1/5W J	1	EA
R936	CRD20TJ184T	RES , CARBON	180K OHM 1/5W J	1	EA
R939	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R940	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J	1	EA
R941	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R942	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R943	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R944	CRD25TJ223T	RES , CARBON	22K OHM 1/4W J	1	EA
R945	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R946	CRD25TJ223T	RES , CARBON	22K OHM 1/4W J	1	EA
R947	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R948	CRD25TJ153T	RES , CARBON	15K OHM 1/4W J	1	EA
R949	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R952	CRD25TJ223T	RES , CARBON	22K OHM 1/4W J	1	EA
R953	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R954	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R955	CRD20TJ203T	RES , CARBON	20K OHM 1/5W J	1	EA
R956	CRD20TJ394T	RES , CARBON	390K OHM 1/5W J	1	EA
R957	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R958	CRD20TJ563T	RES , CARBON	56K OHM 1/5W J	1	EA
R959	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R960	CRD20TJ332T	RES , CARBON	3.3K OHM 1/5W J	1	EA
R961	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J	1	EA
R962	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J	1	EA
R963	CRD20TJ105T	RES , CARBON	1M OHM 1/5W J	1	EA
R964	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R965	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J	1	EA
R966	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J	1	EA
R967	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R968	CRD20TJ105T	RES , CARBON	1M OHM 1/5W J	1	EA
R969	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R986	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J	1	EA
R987	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
R988	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R989	CRD20TJ302T	RES , CARBON	3K OHM 1/5W J	1	EA
R991	CRD20TJ822T	RES , CARBON	8.2K OHM 1/5W J	1	EA
R992	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J	1	EA
R998	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R656	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2	1	EA
R657	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2	1	EA
R658	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2	1	EA
R659	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2	1	EA
R660	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2	1	EA
R810	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2	1	EA
R811	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2	1	EA
R905	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
R911	CRG1ANJ680H	RES , METAL OXIDE FILM	68 OHM 1W J	1	EA
R922	CRG1ANJ680H	RES , METAL OXIDE FILM	68 OHM 1W J	1	EA
R990	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
R993	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
R994	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
R995	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
R996	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
R997	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
R999	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA

Ref. Designator	Part Number	Description		Qty	
MAIN PCB/HEATSINK		**(CUP12026)**			
Miscellaneous					
BN19	CWB3FE03250UP	WIRE ASS'Y		1	EA
BN20	CWB3FC04280UP	WIRE ASS'Y		1	EA
BN81	CWB1C902050EN	WIRE ASS'Y		1	EA
BN82	CWB1C902050EN	WIRE ASS'Y		1	EA
BN83	CWB1C902050EN	WIRE ASS'Y		1	EA
BN84	CWB1C902050EN	WIRE ASS'Y		1	EA
BN85	CWB1C902050EN	WIRE ASS'Y		1	EA
BN86	CWB1C902050EN	WIRE ASS'Y		1	EA
BN87	CWB1C902050EN	WIRE ASS'Y		1	EA
BN88	CWB2B905080EN	WIRE ASS'Y		1	EA
BN89	CWB1C902200EN	WIRE ASS'Y		1	EA
BN98	HJP08GA130ZK	WAFER		1	EA
BN99	CWB1C903280BM	WIRE ASS'Y		1	EA
CN11	CJP17GA117ZY	WAFER		1	EA
CN12	CJP21GA115ZY	WAFER , CARD CABLE		1	EA
CN61	CJP02GA01ZY	WAFER , STRAIGHT, 2PIN		1	EA
CN62	CJP02GA01ZY	WAFER , STRAIGHT, 2PIN		1	EA
CN63	CJP02GA01ZY	WAFER , STRAIGHT, 2PIN		1	EA
CN64	CJP02GA01ZY	WAFER , STRAIGHT, 2PIN		1	EA
CN65	CJP02GA01ZY	WAFER , STRAIGHT, 2PIN		1	EA
CN66	CJP02GA01ZY	WAFER , STRAIGHT, 2PIN		1	EA
CN67	CJP02GA01ZY	WAFER , STRAIGHT, 2PIN		1	EA
CN89	CJP02GA01ZY	WAFER , STRAIGHT, 2PIN		1	EA
CN90	CJP02GA89ZY	WAFER		1	EA
CN91	CJP02GA89ZY	WAFER		1	EA
CN92	CJP02KA060ZY	WAFER		1	EA
CN93	CJP02GA01ZY	WAFER , STRAIGHT, 2PIN		1	EA
ET90	HJT1A025	PLATE , EARTH	MET37-0002	1	EA
ET91	HJT1A025	PLATE , EARTH	MET37-0002	1	EA
	KJCFC5S	HOLDER , FUSE	for F901	2	EA
F901	KBA2C8000TLEY	type : 218 SERIES (8A, 250V)	LITTLE FUSE	1	EA
F902	KBA2D2500TLET	type : SR-5 (2.5A 250V)	SAVE FUSETECH	1	EA
ET01	CMD1A387	BRACKET , PCB		1	EA
JK91	CJJ5R006Z	TERMINAL , SPEAKER		1	EA
JK92	CJJ5Q012Z	TERMINAL , SPEAKER		1	EA
JK97	CJJ4P041W	JACK IN/OUT		1	EA
JK98	CJJ4P042W	JACK IN/OUT		1	EA
JW90	CWE8212120VV	WIRE , RED	MOLEX-5298	1	EA
JW91	CWE8212180VV	WIRE ASS'Y		1	EA
JW93	CWEE202110VV	WIRE (BLACK)	MOLEX-5298T	1	EA
L501	CLEY0R5KAK	COIL , SPEAKER	0.5UH K	1	EA
L502	CLEY0R5KAK	COIL , SPEAKER	0.5UH K	1	EA
L503	CLEY0R5KAK	COIL , SPEAKER	0.5UH K	1	EA
L504	CLEY0R5KAK	COIL , SPEAKER	0.5UH K	1	EA
L505	CLEY0R5KAK	COIL , SPEAKER	0.5UH K	1	EA
L506	CLEY0R5KAK	COIL , SPEAKER	0.5UH K	1	EA
L507	CLEY0R5KAK	COIL , SPEAKER	0.5UH K	1	EA
OL91	KJJ7A013Z	OUTLET , AC 1 PIN USA	A202D0031P(1P)	1	EA
RY94	HSL1A008ZE	RELAY	SDT-S-112DMR	1	EA
TH91	KRTP42T7D330B	THERMAL SENSOR , POSISTOR	P42T7D330BW20	1	EA
T902	CLT5J039ZU	TRANS , SUB AVR355		1	EA
	CMYAVR355	HEAT SINK ASS'Y		1	EA
	CFNCF12825HSN	FAN , MOTOR		2	EA
	CHD1A012R	SCREW , SPECIAL		21	EA
	CHD1A036R	SCREW , SPECIAL		6	EA
	CHD3A012R	SCREW , SPECIAL		5	EA
	CHG1A412	CUSHION		1	EA
	CMD1A398	BRACKET , PCB	AG-D9320	2	EA
	CMD1A417	BRACKET , PCB	AG-D8900	2	EA
	CMD1A600	BRACKET , FAN		1	EA
	CMD2A615	BRACKET , FAN		1	EA
	CMY1A303	HEAT SINK		1	EA
	CMY2A249	HEAT SINK		1	EA
	CTB3+10JR	SCREW		3	EA
	CTB3+8JR	SCREW		7	EA
	CTW3+8JR	SCREW		1	EA
	CTW3+8JR	SCREW		2	EA
	CWE8202150AA	WIRE ASS'Y		1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , POWER TRANS/DOWNLOAD/DIG IN/OUT CUP12101-1/2/3/4/5/6/7/8					
Capacitors					
C104	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
C105	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
C106	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J	1	EA
C107	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
C108	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
C109	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J	1	EA
C117	CCEA1HH4R7T	CAP , ELECT	4.7UF 50V	1	EA
C118	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
C119	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
C120	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
C121	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
C126	CCFT1H473ZF	CAP , CERAMIC	0.047UF 50V Z	1	EA
C127	CCFT1H473ZF	CAP , CERAMIC	0.047UF 50V Z	1	EA
C131	CCEA1HH3R3T	CAP , ELECT	3.3UF 50V	1	EA
C750	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C751	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C752	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C851	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C852	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C853	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C854	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C855	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C856	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C857	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C911	CCEA1HKS2R2T	CAP , ELECT	2.2UF 50V SMALL SIZE	1	EA
C912	CCEA0JH102T	CAP , ELECT	1000UF 6.3V	1	EA
C919	CCKT1H102KB	CAP , CERAMIC	1000PF 50V K	1	EA
C920	CCEA1HH470T	CAP , ELECT	47UF 50V	1	EA
C921	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J	1	EA
C922	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J	1	EA
C923	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J	1	EA
C924	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J	1	EA
C925	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
C926	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
C927	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
C928	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
C931	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C932	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C933	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C934	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
C935	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
C936	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
C937	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
C938	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C939	CCEA1EH101T	CAP , ELECT	100UF 25V	1	EA
C940	CCEA1EH101T	CAP , ELECT	100UF 25V	1	EA
C947	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V Z	1	EA
C948	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
C949	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
C953	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C954	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C957	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C971	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V Z	1	EA
C122	CCEA1JH101E	CAP , ELECT	100UF 63V	1	EA
C129	CCEA1EH822E	CAP , ELECT(KR3, 8200UF/25V, 18X30)	8200UF/25V	1	EA
C130	CCEA1EH102E	CAP , ELECT	1000UF 25V	1	EA
C929	CCEA1VH222EZ	CAP , ELECT (2200UF/35V, 12.5X31)	2200UF/35V	1	EA
C930	CCEA1VH222EZ	CAP , ELECT (2200UF/35V, 12.5X31)	2200UF/35V	1	EA
C941	CCEA1EH682E	CAP , ELECT(KR3, 25V/6800, 18X35.5)	6800UF/25V	1	EA
C951	CCEA1HH102E	CAP , ELECT	1000UF/50V	1	EA
Semiconductors					
D101	CVDZJ15BT	DIODE , ZENER	ZJ15B 1/2W	1	EA
D102	HVDMTZJ27BT	DIODE , ZENER	MTZJ27B 1/2W	1	EA
D104	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D105	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D108	CVD1N4003ST	DIODE , RECT	1N4003	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , POWER TRANS/DOWNLOAD/DIG IN/OUT CUP12101-1/2/3/4/5/6/7/8					
D109	CVDZJ8.2BT	DIODE , ZENER	ZJ8.2B 1/2W	1	EA
D111	CVDZJ8.2BT	DIODE , ZENER	ZJ8.2B 1/2W	1	EA
D114	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D115	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D116	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D117	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D120	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D121	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D124	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D125	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D201	CVDZJ3.3BT	DIODE , ZENER	ZJ3.3B 1/2W	1	EA
D801	CVD1SS133MT	DIODE	1SS133	1	EA
D802	CVD1SS133MT	DIODE	1SS133	1	EA
D921	CVD1SS133MT	DIODE	1SS133	1	EA
D950	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D951	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
Q104	HVTKSC2316YT	TRANSISTOR NPN	KSC2316Y	1	EA
Q911	HVTKTA1267YT	TRANSISTOR PNP	KTA1267Y	1	EA
Q912	HVTKTC3198YT	TRANSISTOR NPN	KTC3198Y	1	EA
Q913	HVTKTC3198YT	TRANSISTOR NPN	KTC3198Y	1	EA
Q995	HVTKRA107MT	TRANSISTOR PNP	KRA107M	1	EA
Q997	HVTKRC107MT	TRANSISTOR NPN	KRC107M	1	EA
IC81	CVIST232CDR	IC , RS232C(SO-16TYPE)	ST(ST232CDR)	1	EA
IC89	HVIKIA278R05PI	REGULATOR (5V OUTPUT LOW DROP)	KEC(KIA278R05PI)	1	EA
IC90	CVIKIA278R15PI	I.C , REGULATOR(15V OUTPUT LOW DROP)	KEC(KIA278R15PI)	1	EA
IC91	CVIKIA7915PI	I.C , REGULATOR(-15V, TO-220AB)	KEC(KIA7915PI)	1	EA
IC97	BVIKP1010B	IC, PHOTO COUPLER	COSMO(KP1010B)	1	EA
IC98	BVIKP1010B	IC, PHOTO COUPLER	COSMO(KP1010B)	1	EA
IC99	HVI74LCX32TTR	I.C , OR-GATE	ST(74LCX32TTR)	1	EA
Q851	HVTKTD600KGR	TRANSISTOR , BIAS NPN	KTD600KGR	1	EA
Q852	HVTKTD600KGR	TRANSISTOR , BIAS NPN	KTD600KGR	1	EA
Q853	HVTKTD600KGR	TRANSISTOR , BIAS NPN	KTD600KGR	1	EA
Q854	HVTKTD600KGR	TRANSISTOR , BIAS NPN	KTD600KGR	1	EA
Q855	HVTKTD600KGR	TRANSISTOR , BIAS NPN	KTD600KGR	1	EA
Q856	HVTKTD600KGR	TRANSISTOR , BIAS NPN	KTD600KGR	1	EA
Q857	HVTKTD600KGR	TRANSISTOR , BIAS NPN	KTD600KGR	1	EA
D701	HVDKBU804F	DIODE , BRIDGE	JGD(KBU804F)	1	EA
D991	CVDKBU804FMA	BRIDGE DIODE ASS'Y		1	EA
	HVDKBU804F	DIODE , BRIDGE	JGD(KBU804F)	1	EA
D992	CVDKBU804FMA	BRIDGE DIODE ASS'Y		1	EA
	HVDKBU804F	DIODE , BRIDGE	JGD(KBU804F)	1	EA
Resistors					
R101	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
R108	CRD20TJ8R2T	RES , CARBON	8.2 OHM 1/5W J	1	EA
R109	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J	1	EA
R110	CRD20TJ8R2T	RES , CARBON	8.2 OHM 1/5W J	1	EA
R112	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J	1	EA
R113	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J	1	EA
R120	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R121	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R122	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R750	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R751	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R752	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R874	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J	1	EA
R875	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J	1	EA
R876	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J	1	EA
R877	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J	1	EA
R878	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J	1	EA
R879	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J	1	EA
R880	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J	1	EA
R882	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J	1	EA
R883	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J	1	EA
R884	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J	1	EA
R885	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J	1	EA
R886	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J	1	EA
R887	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J	1	EA
R888	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J	1	EA
R891	CRD20TJ391T	RES , CARBON	390 OHM 1/5W J	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , POWER TRANS/DOWNLOAD/DIG IN/OUT CUP12101-1/2/3/4/5/6/7/8					
R892	CRD20TJ391T	RES , CARBON	390 OHM 1/5W J	1	EA
R893	CRD20TJ391T	RES , CARBON	390 OHM 1/5W J	1	EA
R894	CRD20TJ391T	RES , CARBON	390 OHM 1/5W J	1	EA
R895	CRD20TJ391T	RES , CARBON	390 OHM 1/5W J	1	EA
R896	CRD20TJ391T	RES , CARBON	390 OHM 1/5W J	1	EA
R897	CRD20TJ391T	RES , CARBON	390 OHM 1/5W J	1	EA
R901	CRD20TJ272T	RES , CARBON	2.7K OHM 1/5W J	1	EA
R912	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R913	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R917	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R918	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R919	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R920	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R921	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R922	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R923	CRD25TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R924	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R925	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R926	CRD25TJ103T	RES , CARBON	10K OHM 1/4W J	1	EA
R927	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R928	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J	1	EA
R941	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R942	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R956	CRD20TJ1R0T	RES , CARBON	1 OHM 1/5W J	1	EA
R957	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J	1	EA
R970	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R971	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R972	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J	1	EA
R973	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J	1	EA
R974	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J	1	EA
R975	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J	1	EA
R976	CRD20TJ470T	RES , CARBON	47 OHM 1/5W J	1	EA
R977	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J	1	EA
R104	KRQ1AJR47H	RES , FUSE	0.47 OHM 1W J	1	EA
R105	KRQ1AJR47H	RES , FUSE	0.47 OHM 1W J	1	EA
R106	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J	1	EA
R107	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J	1	EA
R949	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J	1	EA
R950	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J	1	EA
VR81	CVN1RA221B02T	RES , SEMI FIXED (220, B CURVE)	KVSF637AVC	1	EA
VR82	CVN1RA221B02T	RES , SEMI FIXED (220, B CURVE)	KVSF637AVC	1	EA
VR83	CVN1RA221B02T	RES , SEMI FIXED (220, B CURVE)	KVSF637AVC	1	EA
VR84	CVN1RA221B02T	RES , SEMI FIXED (220, B CURVE)	KVSF637AVC	1	EA
VR85	CVN1RA221B02T	RES , SEMI FIXED (220, B CURVE)	KVSF637AVC	1	EA
VR86	CVN1RA221B02T	RES , SEMI FIXED (220, B CURVE)	KVSF637AVC	1	EA
VR87	CVN1RA221B02T	RES , SEMI FIXED (220, B CURVE)	KVSF637AVC	1	EA
Miscellaneous					
F110	KBA2D3150A2EYT	FUSE (LITTLE FUSE 382 SERIES)	382 250V/3.15	1	EA
F111	KBA2D3150A2EYT	FUSE (LITTLE FUSE 382 SERIES)	382 250V/3.15	1	EA
BN17	CJP06GB143ZB	FEMALE HEADER(6P, 2.54mm)		1	EA
BN20	CWB1C905180BM	WIRE ASS'Y		1	EA
BN21	CWB1C905120EN	WIRE ASS'Y		1	EA
BN22	CWB1C902280NN	WIRE ASS'Y		1	EA
BN79	CWB1C907120EN	WIRE ASS'Y(7P, 2MM, 120MM)		1	EA
BN80	CWB2B903180EN	WIRE ASS'Y		1	EA
BN96	CWB1C915180EN	WIRE ASS'Y(15P, 2MM, 180MM)		1	EA
BN97	CWB1C907120EN	WIRE ASS'Y(7P, 2MM, 120MM)		1	EA
CN13	CJP05GA01ZY	WAFER(YMW025-05R)		1	EA
CN19	CJP03GA90ZY	WAFER		1	EA
CN20	CJP04GA90ZM	WAFER		1	EA
CN31	CJP02GA19ZY	WAFER , 2PIN	CJP02GA19ZY	1	EA
CN32	CJP02GA19ZY	WAFER , 2PIN	CJP02GA19ZY	1	EA
CN33	CJP02GA19ZY	WAFER , 2PIN	CJP02GA19ZY	1	EA
CN34	CJP02GA19ZY	WAFER , 2PIN	CJP02GA19ZY	1	EA
CN35	CJP02GA19ZY	WAFER , 2PIN	CJP02GA19ZY	1	EA
CN36	CJP02GA19ZY	WAFER , 2PIN	CJP02GA19ZY	1	EA
CN37	CJP02GA19ZY	WAFER , 2PIN	CJP02GA19ZY	1	EA
CN47	CJP07GA117ZY	WAFER		1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , POWER TRANS/DOWNLOAD/DIG IN/OUT CUP12101-1/2/3/4/5/6/7/8					
CN79	CJP07GA19ZY	WAFER , STRAIGHT(7PIN)		1	EA
CN81	CJP07GA01ZY	WAFER , STRAIGHT(7PIN)		1	EA
CN88	CJP05GA19ZY	WAFER , STRAIGHT		1	EA
CN95	CJP02GA19ZY	WAFER , 2PIN	CJP02GA19ZY	1	EA
CN96	CJP15GA19ZY	WAFER		1	EA
CN98	HJP08GB131ZK	WAFER		1	EA
ET04	CMD1A569	BRACKET , PCB		1	EA
ET05	CMD1A569	BRACKET , PCB		1	EA
	CTB3+12JR	SCREW		1	EA
	CMY1A219	HEAT SINK (BRIDGE DIODE)		1	EA
JK75	HJSTORX177L	MODULE , OPTICAL(RX)	TORX177L	1	EA
JK76	HJSTORX177L	MODULE , OPTICAL(RX)	TORX177L	1	EA
JK77	HJSTORX177L	MODULE , OPTICAL(RX)	TORX177L	1	EA
JK94	CJJ2D008Z	JACK , STEREO		1	EA
JK95	CJJ2D008Z	JACK , STEREO		1	EA
JK96	CJJ2D008Z	JACK , STEREO		1	EA
JK97	CJJ9W001Z	JACK , 9P D-SUB FEMALE(RS-232C, SEMCO)		1	EA
JK98	CJJ2D008Z	JACK , STEREO		1	EA
JK99	CJJ2D008Z	JACK , STEREO		1	EA
SW95	CST1A010Z	SW , TACT		1	EA
SW96	HSH2B018Z	SW , PUSH	SPUJ19XSM011	1	EA
SW97	HSH2B018Z	SW , PUSH	SPUJ19XSM011	1	EA
	CMD1A618	BRACKET , RESET		1	EA
PCB , INPUT		**CUP12028**			
Capacitors					
C201	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C202	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C203	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C204	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C205	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C206	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C209	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C210	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C211	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C212	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C213	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C214	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C215	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C216	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C219	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C220	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C221	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C222	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C223	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C224	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C225	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C226	CCUS1H221JA	CAP , CHIP	220PF 50V J	1	EA
C260	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C269	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C274	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C277	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C279	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C280	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C289	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C290	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C291	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C293	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C295	CCUS1H272KC	CAP , CHIP	2700PF 50V K	1	EA
C296	CCUS1H272KC	CAP , CHIP	2700PF 50V K	1	EA
C299	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C301	CCUS1H152KC	CAP , CHIP	1500PF 50V K	1	EA
C302	CCUS1H152KC	CAP , CHIP	1500PF 50V K	1	EA
C303	CCUS1H152KC	CAP , CHIP	1500PF 50V K	1	EA
C304	CCUS1H152KC	CAP , CHIP	1500PF 50V K	1	EA
C305	CCUS1H152KC	CAP , CHIP	1500PF 50V K	1	EA
C306	CCUS1H152KC	CAP , CHIP	1500PF 50V K	1	EA
C307	CCUS1H152KC	CAP , CHIP	1500PF 50V K	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , INPUT		**CUP12028**			
C308	CCUS1H152KC	CAP , CHIP	1500PF 50V K	1	EA
C309	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C310	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C311	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C312	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C313	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C314	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C315	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C316	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C317	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C318	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C319	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C320	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C321	CCUS1H271JA	CAP , CHIP	270PF 50V J	1	EA
C322	CCUS1H271JA	CAP , CHIP	270PF 50V J	1	EA
C323	CCUS1H271JA	CAP , CHIP	270PF 50V J	1	EA
C324	CCUS1H271JA	CAP , CHIP	270PF 50V J	1	EA
C325	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C326	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C327	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C328	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C329	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C330	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C331	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C332	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C333	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C334	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C335	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C336	CCUS1H561JA	CAP , CHIP	560PF 50V J	1	EA
C337	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C338	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C339	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C340	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C350	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C351	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C352	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C353	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C354	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C355	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C356	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C357	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C369	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C370	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C381	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C382	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C383	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C384	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C385	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C386	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C387	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C388	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C391	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C392	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C393	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C394	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C395	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C396	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C397	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C398	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C532	CCUS1H182KC	CAP , CHIP(1800PF/50V/1608/X7R)	1800PF 50V K	1	EA
C534	CCUS1H182KC	CAP , CHIP(1800PF/50V/1608/X7R)	1800PF 50V K	1	EA
C535	CCUS1H182KC	CAP , CHIP(1800PF/50V/1608/X7R)	1800PF 50V K	1	EA
C536	CCUS1H182KC	CAP , CHIP(1800PF/50V/1608/X7R)	1800PF 50V K	1	EA
C537	CCUS1H182KC	CAP , CHIP(1800PF/50V/1608/X7R)	1800PF 50V K	1	EA
C538	CCUS1H182KC	CAP , CHIP(1800PF/50V/1608/X7R)	1800PF 50V K	1	EA
C539	CCUS1H182KC	CAP , CHIP(1800PF/50V/1608/X7R)	1800PF 50V K	1	EA
C540	CCUS1H182KC	CAP , CHIP(1800PF/50V/1608/X7R)	1800PF 50V K	1	EA
C601	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C603	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C605	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , INPUT		**CUP12028**			
C607	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C609	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C611	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C613	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C615	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C617	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C619	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C621	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C623	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C625	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C627	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C629	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C631	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C701	CCUS1H150JA	CAP , CHIP(15PF/50V)	15PF 50V J	1	EA
C702	CCUS1H150JA	CAP , CHIP(15PF/50V)	15PF 50V J	1	EA
C704	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C705	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C707	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C708	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C716	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C718	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C719	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C722	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C723	CCUS1H473KC	CAP , CHIP	0.047UF 50V K	1	EA
C725	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C727	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C729	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C731	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C733	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C734	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C738	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C739	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C741	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C742	CCUS1H180JA	CAP , CHIP(18PF/50V)	18PF 50V J	1	EA
C743	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C744	CCUS1H180JA	CAP , CHIP(18PF/50V)	18PF 50V J	1	EA
C745	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C746	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C747	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C748	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C751	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C754	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C756	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C758	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C759	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C760	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C761	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C762	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C763	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C765	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C768	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C769	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C770	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C771	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C772	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C773	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C775	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C780	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C781	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C782	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C783	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C784	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C787	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C789	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C790	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C791	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C793	CCUS1H101JA	CAP , CHIP	100PF 50V J	1	EA
C794	CCUS1H181JA	CAP , CHIP	180PF 50V J	1	EA
C795	CCUS1H181JA	CAP , CHIP	180PF 50V J	1	EA
C796	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , INPUT		**CUP12028**			
C797	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C798	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C820	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C261	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C262	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C263	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C264	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C265	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C266	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C267	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C268	CCEA1EH470T	CAP , ELECT	47UF 25V	1	EA
C270	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C271	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C272	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C273	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C275	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C276	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C281	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C282	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C283	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C284	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C285	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C286	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C287	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C288	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C292	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C294	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C341	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C342	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C343	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C344	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C345	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C346	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C347	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C348	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C349	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C358	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C359	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C360	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C371	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C372	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C373	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C374	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C375	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C376	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C377	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C378	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C389	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C390	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C600	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C602	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C604	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C606	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C608	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C610	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C612	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C614	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C616	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C618	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C620	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C622	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C624	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C626	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C628	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C630	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C703	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C706	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C715	CCEA1HH4R7T	CAP , ELECT	4.7UF 50V	1	EA
C717	CCEA1HH4R7T	CAP , ELECT	4.7UF 50V	1	EA
C720	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , INPUT		**CUP12028**			
C721	CCEA1AH471T	CAP , ELECT	470UF 10V	1	EA
C724	CCEA1AH471T	CAP , ELECT	470UF 10V	1	EA
C726	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C728	CCEA1AH471T	CAP , ELECT	470UF 10V	1	EA
C730	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C737	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C740	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C749	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C750	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C752	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C753	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C764	CCEA0JH102T	CAP , ELECT	1000UF 6.3V	1	EA
C766	CCEA0JH102T	CAP , ELECT	1000UF 6.3V	1	EA
C732	CCEA0JKR3222E	CAP , ELECT	3300UF 6.3V	1	EA
Semiconductors					
D201	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D203	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D204	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D206	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D207	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D208	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D209	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D210	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D211	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D212	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D213	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D214	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D215	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D216	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D701	HVDRLS4148SR	DIODE, SWITCHING, SMD TYPE	RLS4148 TE-11	1	EA
D725	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D727	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
IC20	CVINJW1197CFC2	I.C , VOL WITH INPUT SELECTOR	JRC(NJW1197CFC2)	1	EA
IC21	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC22	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC23	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC24	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC25	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC31	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC32	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC33	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC34	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC70	HVITC74VHC157FT	I.C , 2-CHANNEL MUX	TOSHIBA(TC74VHC157FT)	1	EA
IC72	HVITC74HCU04AFN	IC , INVERTER	TOSHIBA(TC74HCU04AFN)	1	EA
IC73	HVICS42528-CQ	I.C , CODEC + DIR	CIRRUS LOGIC(CS42528-CQ)	1	EA
IC75	CVICS497004CQZ	I.C , DSP	CIRRUS LOGIC(CS497004CQZ)	1	EA
IC77	CVIM12L16161A5TG	I.C, 16MB SDRAM	ESMT(M12L16161A5TG)	1	EA
IC78	HVINJM2391DL133	I.C , CHIP REGULATOR (+3.3V)	JRC(NJM2391DL1-3.3)	1	EA
IC79	CVIKIA1117S18	I.C , REGULATOR(SOT-223)	KEC(KIA1117S18)	1	EA
IC80	CVITC74VCX541FT	I,C , OCTAL BUS BUFFER	TOSHIBA(TC74VCX541FT)	1	EA
IC88	CVIKIA1117S33	I.C , REGULATOR(SOT-223)	KEC(KIA1117S33)	1	EA
IC89	CVIBR24C32AN10SU1.8	I.C , EEPROM (32 Kbit)	ROHM(BR24C32AN-10SU-1.80)	1	EA
IC89	CVIM24C32WMN6TP	I.C , EEPROM (32 Kbit)	ST(M24C32WMN6TP)	1	EA
IC90	CVIT5CC1	I.C , FLASH U-COM	TOSHIBA(T5CC1)	1	EA
IC91	HVI74ACT04MTR	I.C , HEX INVERTER	ST(74ACT04MTR)	1	EA
Q729	HVTKRC107S	TRANSISTOR , CHIP NPN	KRC107S	1	EA
Q730	HVTKRC107S	TRANSISTOR , CHIP NPN	KRC107S	1	EA
Q732	HVTKRC107S	TRANSISTOR , CHIP NPN	KRC107S	1	EA
Q734	HVTKRC107S	TRANSISTOR , CHIP NPN	KRC107S	1	EA
Q735	HVTKRA107S	TRANSISTOR , PNP, CHIP	KRA107S	1	EA
Q736	HVTKRA107S	TRANSISTOR , PNP, CHIP	KRA107S	1	EA
Q738	CVTKRC103S	TRANSISTOR , CHIP NPN	KRC103S	1	EA
D221	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D222	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D703	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D704	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
IC87	HVIRE5VT28CATZ	I.C , RESET	ROHM(RE5VT28CATZ)	1	EA
Q301	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , INPUT		**CUP12028**			
Q302	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q303	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q304	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q305	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q306	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q307	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q308	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q311	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q731	HVTKSA1175YT	TRANSISTOR PNP	KSA1175Y(DEAD)	1	EA
Q733	HVTKSC2785YT	TRANSISTOR PNP	KSC2785Y	1	EA
Q737	HVTKSC2785YT	TRANSISTOR NPN	KSC2785Y	1	EA
IC36	HVIKIA7808API	I.C , REGULATOR +8V	KEC(KIA7808API)	1	EA
IC37	CVIKIA7908PI	I.C , REGULATOR(TO-220IS) -8V	KEC(KIA7908PI)	1	EA
IC71	CVIF25L004A100PAG	I.C , 4M FLASH(8PIN SOIC)	ESMT(F25L004A100PAG)	1	EA
IC71	CVIST25VF080B504CS2F	I.C , 8 Mbit SPI Serial Flash	SST(SST25VF080B-50-4C-S2AF)	1	EA
Resistors					
RN61	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K(1608)	1	EA
RN62	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K(1608)	1	EA
RN63	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K(1608)	1	EA
RN64	CRJ104DJ101T	RES , CHIP NETWORK(1/16W, 100ohm, 1608X4)	100R (1608)	1	EA
RN65	CRJ104DJ101T	RES , CHIP NETWORK(1/16W, 100ohm, 1608X4)	100R (1608)	1	EA
RN66	CRJ104DJ101T	RES , CHIP NETWORK(1/16W, 100ohm, 1608X4)	100R (1608)	1	EA
RN71	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K(1608)	1	EA
RN72	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K(1608)	1	EA
RN73	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K(1608)	1	EA
RN76	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN77	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN78	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN79	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN80	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN81	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN82	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN83	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN84	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN85	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN86	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K(1608)	1	EA
RN87	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN88	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K(1608)	1	EA
RN89	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K(1608)	1	EA
RN90	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN91	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
RN92	CRJ104DJ101T	RES , CHIP NETWORK(1/16W, 100ohm, 1608X4)	100R (1608)	1	EA
RN93	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4	1	EA
R201	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R202	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R203	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R204	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R205	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R206	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R209	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R210	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R211	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R212	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R213	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R214	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R215	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R216	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R219	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R220	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R221	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R222	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R223	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R224	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R225	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R226	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R227	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R228	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R229	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , INPUT		**CUP12028**			
R230	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R231	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R232	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R235	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R236	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R237	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R238	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R239	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R240	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R241	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R242	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R245	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R246	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R247	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R248	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R249	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R250	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R251	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R252	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R253	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R254	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R256	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R257	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R258	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R259	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R260	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R261	CRJ10DJ184T	RES , CHIP	184K OHM	1	EA
R262	CRJ10DJ184T	RES , CHIP	184K OHM	1	EA
R263	CRJ10DJ184T	RES , CHIP	184K OHM	1	EA
R264	CRJ10DJ184T	RES , CHIP	184K OHM	1	EA
R265	CRJ10DJ184T	RES , CHIP	184K OHM	1	EA
R266	CRJ10DJ184T	RES , CHIP	184K OHM	1	EA
R267	CRJ10DJ184T	RES , CHIP	184K OHM	1	EA
R268	CRJ10DJ184T	RES , CHIP	184K OHM	1	EA
R271	CRJ10DJ242T	RES , CHIP	2.4K OHM	1	EA
R272	CRJ10DJ242T	RES , CHIP	2.4K OHM	1	EA
R273	CRJ10DJ242T	RES , CHIP	2.4K OHM	1	EA
R274	CRJ10DJ222T	RES , CHIP	2.2K OHM	1	EA
R275	CRJ10DJ242T	RES , CHIP	2.4K OHM	1	EA
R276	CRJ10DJ242T	RES , CHIP	2.4K OHM	1	EA
R277	CRJ10DJ242T	RES , CHIP	2.4K OHM	1	EA
R278	CRJ10DJ242T	RES , CHIP	2.4K OHM	1	EA
R279	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R280	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R281	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R282	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R283	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R284	CRJ10DJ912T	RES , CHIP	9.1K OHM/1608	1	EA
R285	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R286	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R287	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R288	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R289	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R290	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R291	CRJ10DJ184T	RES , CHIP	1.2K OHM	1	EA
R292	CRJ10DJ184T	RES , CHIP	1.2K OHM	1	EA
R293	CRJ10DJ184T	RES , CHIP	1.2K OHM	1	EA
R294	CRJ10DJ184T	RES , CHIP	1.2K OHM	1	EA
R295	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R296	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R297	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R298	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R301	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R302	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R303	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R304	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R305	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R306	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R307	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R308	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , INPUT		**CUP12028**			
R309	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R310	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R311	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R312	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R313	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R314	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R315	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R316	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R317	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R318	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R321	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R322	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R323	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R324	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R325	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R326	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R327	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R328	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R329	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R330	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R331	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R332	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R333	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R334	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R335	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R336	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R341	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R344	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R345	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R348	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R349	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R352	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R353	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R356	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R361	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R362	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R363	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R364	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R365	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R366	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R367	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R368	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R371	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R372	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R373	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R374	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R375	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R376	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R377	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R378	CRJ10DJ512T	RES , CHIP	5.1K OHM	1	EA
R381	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R382	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R383	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R384	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R385	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R386	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R387	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R388	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R389	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R390	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R391	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R392	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R393	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R394	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R395	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R396	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R397	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R398	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R531	CRJ10DJ152T	RES , CHIP	1.5K OHM	1	EA
R532	CRJ10DJ152T	RES , CHIP	1.5K OHM	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , INPUT		**CUP12028**			
R533	CRJ10DJ152T	RES , CHIP	1.5K OHM	1	EA
R534	CRJ10DJ152T	RES , CHIP	1.5K OHM	1	EA
R700	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R701	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R702	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R704	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R709	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R710	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R711	CRJ10DJ560T	RES , CHIP	56 OHM	1	EA
R712	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R713	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R714	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R715	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R716	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R717	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R718	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R719	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R720	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R721	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R724	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R725	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R726	CRJ10DJ100T	RES , CHIP	10 OHM	1	EA
R727	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R728	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R729	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R730	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R731	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R732	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R733	CRJ10DJ100T	RES , CHIP	10 OHM	1	EA
R736	CRJ10DJ241T	RES , CHIP	240 OHM	1	EA
R737	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R738	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R739	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R740	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R741	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R742	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R743	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R747	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R748	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R749	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R751	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R752	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R753	CRJ10DJ103T	RES , CHIP	100K OHM	1	EA
R754	CRJ10DJ103T	RES , CHIP	100K OHM	1	EA
R755	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R756	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R757	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R758	CRJ10DJ103T	RES , CHIP	100K OHM	1	EA
R759	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R760	CRJ10DJ105T	RES , CHIP	1M OHM	1	EA
R761	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R762	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R763	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R765	CRJ10DJ103T	RES , CHIP	100K OHM	1	EA
R766	CRJ10DJ103T	RES , CHIP	100K OHM	1	EA
R767	CRJ10DF5101T	RES. CHIP (5.1K 1%)	5.1K OHM 1%	1	EA
R768	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R770	CRJ10DJ100T	RES , CHIP	10 OHM	1	EA
R771	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R772	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R773	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R774	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R775	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R776	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R777	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R778	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R779	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R780	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R781	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R782	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , INPUT		**CUP12028**			
R783	CRJ10DJ272T	RES , CHIP	2.7K OHM	1	EA
R784	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R785	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R786	CRJ10DJ471T	RES , CHIP	470 OHM	1	EA
R787	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R788	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R789	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R791	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R792	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R794	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R795	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R796	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R797	CRJ10DJ1R0T	RES , CHIP	1 OHM	1	EA
R799	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R800	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R801	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R802	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R810	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R811	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R812	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R813	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R814	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R815	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
R816	CRJ10DJ330T	RES , CHIP	33 OHM	1	EA
Miscellaneous					
X701	HOX24576E150TF	CRYSTAL	24.576MHZ	1	EA
X702	HOX27000E180S	CRYSTAL , CHIP(27MHZ,SMD)	27MHz	1	EA
L701	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L702	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L703	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L704	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L705	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
CN11	CJP17GA193ZY	WAFER, CARD CABLE (SMD)		1	EA
CN15	CJP17GA193ZY	WAFER, CARD CABLE (SMD)		1	EA
CN16	CJP13GA193ZY	WAFER , CARD CABLE (SMD)		1	EA
CN10	CJP05GB46ZY	WAFER		1	EA
CN12	CJP21GA115ZY	WAFER , CARD CABLE		1	EA
CN13	CJP13GA115ZY	WAFER , CARD CABLE		1	EA
CN14	CJP17GA117ZY	WAFER		1	EA
CN17	CJP06GB142ZB	PIN HEADER(6P, 2.54mm)		1	EA
CN18	CJP05GA19ZY	WAFER , STRAIGHT		1	EA
CN19	CJP09GA117ZY	WAFER		1	EA
CN20	CJP05GA01ZY	WAFER(YMW025-05R)		1	EA
CN21	CJP07GA117ZY	WAFER		1	EA
CN22	CJP07GA19ZY	WAFER , STRAIGHT(7PIN)		1	EA
CN72	CJP17GA117ZY	WAFER		1	EA
JK11	CJJ4R019W	TERMINAL , IN/OUT		1	EA
JK12	CJJ4P014W	JACK , IN/OUT		1	EA
JK13	CJJ4R019W	TERMINAL , IN/OUT		1	EA
JK14	CJJ4R037W	JACK , BOARD		1	EA
JK78	CJJ4S022Z	JACK , BOARD		1	EA
JW21	CWE7202070AA	WIRE ASS'Y		1	EA
PCB , VIDEO		**CUP12033**			
Capacitors					
C409	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C419	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C425	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C455	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C456	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C459	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C460	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C461	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C463	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C465	CCUS1H470JA	CAP , CHIP	47PF 50V J	1	EA
C466	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , VIDEO		**CUP12033**			
C468	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C470	CCUS1H470JA	CAP , CHIP	47PF 50V J	1	EA
C471	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C473	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C475	CCUS1H470JA	CAP , CHIP	47PF 50V J	1	EA
C476	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C477	CCUS1H271JA	CAP , CHIP	270PF 50V J	1	EA
C478	CCUS1H271JA	CAP , CHIP	270PF 50V J	1	EA
C481	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C482	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C483	CCUS1H102KC	CAP , CHIP	1000PF 50V K	1	EA
C484	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C489	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C491	CCUS1H101JA	CAP , CHIP	100PF 50V J	1	EA
C492	CCUS1H101JA	CAP , CHIP	100PF 50V J	1	EA
C493	CCUS1H101JA	CAP , CHIP	100PF 50V J	1	EA
C494	CCUS1H331JA	CAP , CHIP	330PF 50V J	1	EA
C495	CCUS1H331JA	CAP , CHIP	330PF 50V J	1	EA
C496	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C497	CCUS1H122KC	CAP , CHIP	1200PF 50V K	1	EA
C498	CCUS1H122KC	CAP , CHIP	1200PF 50V K	1	EA
C500	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C501	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C502	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C503	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C504	CCUS1H181JA	CAP , CHIP	180PF 50V J	1	EA
C505	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C506	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C507	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C508	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C509	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C510	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C511	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C516	CCUS1H473KC	CAP , CHIP	0.047UF 50V K	1	EA
C517	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C518	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C520	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C525	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C527	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C531	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C533	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C534	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C535	CCUS1H471JA	CAP , CHIP	470PF 50V J	1	EA
C536	CCUS1H471JA	CAP , CHIP	470PF 50V J	1	EA
C539	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C548	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C556	CCUS1H070DA	CAP , CHIP	7PF 50V D	1	EA
C557	CCUS1H120JA	CAP , CHIP(12PF/50V/COG/1608)	12PF 50V J	1	EA
C558	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C559	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C570	CCUS1H180JA	CAP , CHIP(18PF/50V)	18PF 50V J	1	EA
C571	CCUS1H180JA	CAP , CHIP(18PF/50V)	18PF 50V J	1	EA
C572	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C576	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C577	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C582	CCUS1H150JA	CAP , CHIP(15PF/50V)	15PF 50V J	1	EA
C583	CCUS1H150JA	CAP , CHIP(15PF/50V)	15PF 50V J	1	EA
C585	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C601	CCUS1H020CA	CAP , CHIP	2PF 50V C	1	EA
C603	CCUS1H020CA	CAP , CHIP	2PF 50V C	1	EA
C605	CCUS1H020CA	CAP , CHIP	2PF 50V C	1	EA
C611	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C613	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C615	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C621	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C623	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C625	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C631	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C632	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA
C633	CCUS1H220JA	CAP , CHIP	22PF 50V J	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , VIDEO		**CUP12033**			
C634	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C404	CCEA0JH102T	CAP , ELECT	1000UF 6.3V	1	EA
C405	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C406	CCEA0JH102T	CAP , ELECT	1000UF 6.3V	1	EA
C408	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C411	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C412	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C413	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C414	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C415	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C418	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C421	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C422	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C423	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C450	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C451	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C452	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C453	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C457	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C458	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C462	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C464	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C467	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C469	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C472	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C474	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C480	CCEA1CKS220T	CAP , ELECT	22UF 16V SMALL SIZE	1	EA
C490	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C499	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C512	CCEA1CKS220T	CAP , ELECT	22UF 16V SMALL SIZE	1	EA
C519	CCEA1CH471T	CAP , ELECT	470UF 16V	1	EA
C526	CCEA1CKS101T	CAP , ELECT	100UF 16V	1	EA
C530	CCEA1AH331T	CAP , ELECT	330UF 10V	1	EA
C532	CCEA1CH221T	CAP , ELECT	220UF 16V	1	EA
C540	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C541	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C545	CCEA1CKS220T	CAP , ELECT	22UF 16V SMALL SIZE	1	EA
C546	CCEA1CKS220T	CAP , ELECT	22UF 16V SMALL SIZE	1	EA
C547	CCEA1CH471T	CAP , ELECT	470UF 16V	1	EA
C561	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C565	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C566	CCEA1CKS100T	CAP , ELECT	10UF 16V	1	EA
C574	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C575	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C584	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C602	CCEA0JH102T	CAP , ELECT	1000UF 6.3V	1	EA
C604	CCEA0JH102T	CAP , ELECT	1000UF 6.3V	1	EA
C606	CCEA0JH102T	CAP , ELECT	1000UF 6.3V	1	EA
Semiconductors					
D404	HVDRB160L60TE25	DIODE , SCHOTTKEY BARRIER HK	RB160L-60TE25	1	EA
D500	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D501	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
IC41	CVINJM2595MTE1	I.C , VIDEO S/W	JRC(NJM2595MTE1)	1	EA
IC42	CVINJM2595MTE1	I.C , VIDEO S/W	JRC(NJM2595MTE1)	1	EA
IC43	CVINJM2595MTE1	I.C , VIDEO S/W	JRC(NJM2595MTE1)	1	EA
IC44	CVIKIA1117S33	I.C , REGULATOR(SOT-223)	KEC(KIA1117S33)	1	EA
IC51	CVIXMDTIC	I.C , XM V3B	XM(XMDTIC)	1	EA
IC52	CVIAK4384ET	I.C , ADC	ASAHI KASEI (AK4384ET)	1	EA
IC53	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC54	CVIKIA1117S33	I.C , REGULATOR(SOT-223)	KIA1117S/F33, SOT-223	1	EA
IC57	HVINJM2068MTE1	I.C , DUAL OP AMP	NJM2068M-TE1	1	EA
IC58	HVINJM2068MTE1	I.C , DUAL OP AMP	NJM2068M-TE1	1	EA
IC59	HVINJM2137MTE1	I.C , DUAL OP AMP	JRC(NJM2137M-TE1)	1	EA
IC60	CVIKIA1117S50	I.C , REGULATOR(SOT-223)	KEC(KIA1117S50)	1	EA
Q502	HVTKRC102S	TRANSISTOR, CHIP	KRC102S	1	EA
D502	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
IC47	CVITMP86F409NG	I.C , IPOD UART BUFFER	TOSHIBA(TMP86F409NG)	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , VIDEO		**CUP12033**			
Resistors					
RN50	CRJ104DJ220T	RES,4ARRAY	22 OHM/1608*4	1	EA
RN51	CRJ104DJ101T	RES , CHIP NETWORK(1/16W, 100ohm, 1608X4)	100 OHM/1608*4	1	EA
RN52	CRJ102DJ220T	RES , CHIP NETWORK 1/10W, 22ohm, J , 1608 2 A	22 OHM/1608*2	1	EA
R401	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R402	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R403	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R407	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R408	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R409	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R411	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R412	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R413	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R414	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R415	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R416	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R417	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R418	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R419	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R420	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R421	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R422	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R423	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R442	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R451	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R452	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R453	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R462	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R463	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R467	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R468	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R472	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R473	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R474	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R475	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R476	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R477	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R478	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R479	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R481	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R482	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R483	CRJ10DJ152T	RES , CHIP	1.5K OHM	1	EA
R484	CRJ10DJ152T	RES , CHIP	1.5K OHM	1	EA
R486	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R491	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R492	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R493	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R500	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R503	CRJ10CJ0R0T	RES , CHIP (1/10W OR)	0 OHM	1	EA
R504	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R505	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R506	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R507	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R508	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R509	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R510	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R511	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R512	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R513	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R514	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R515	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R516	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R517	CRJ10DJ222T	RES , CHIP	2.2K OHM	1	EA
R518	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R519	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R521	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R522	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R523	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R524	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , VIDEO		**CUP12033**			
R525	CRJ10DJ105T	RES , CHIP	1M OHM	1	EA
R526	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R527	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R528	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R529	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R530	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R534	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R535	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R536	CRJ10DJ222T	RES , CHIP	2.2K OHM	1	EA
R537	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R538	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R539	CRJ10DJ220T	RES , CHIP	22 OHM	1	EA
R540	CRJ10DJ220T	RES , CHIP	22 OHM	1	EA
R541	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R542	CRJ18AJ221T	RES , CHIP	220 OHM	1	EA
R543	CRJ18AJ221T	RES , CHIP	220 OHM	1	EA
R544	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R545	CRJ10DJ222T	RES , CHIP	2.2K OHM	1	EA
R547	CRJ10DJ222T	RES , CHIP	2.2K OHM	1	EA
R548	CRJ10DJ222T	RES , CHIP	2.2K OHM	1	EA
R552	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R553	CRJ10DJ474T	RES , CHIP	470K OHM	1	EA
R554	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R555	CRJ10DJ202T	RES , CHIP	2K OHM	1	EA
R556	CRJ10DJ202T	RES , CHIP	2K OHM	1	EA
R557	CRJ10DJ821T	RES , CHIP	820 OHM	1	EA
R558	CRJ10DJ821T	RES , CHIP	820 OHM	1	EA
R562	CRJ10DJ271T	RES , CHIP	270 OHM	1	EA
R563	CRJ10DJ271T	RES , CHIP	270 OHM	1	EA
R566	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R569	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R571	CRJ10DF7502T	RES , CHIP(75K, 1608, 1%)	75K OHM 1%	1	EA
R572	CRJ10DF4992T	RES , CHIP(49.9K, 1608, 1%)	49.9K OHM 1%	1	EA
R573	CRJ10DF7502T	RES , CHIP(75K, 1608, 1%)	75K OHM 1%	1	EA
R574	CRJ10DF4992T	RES , CHIP(49.9K, 1608, 1%)	49.9K OHM 1%	1	EA
R575	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R576	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R577	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R601	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R603	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R605	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R611	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R612	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R613	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R621	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R622	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R623	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R631	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R632	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R633	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R626	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
Miscellaneous					
X501	COX45158E180S	X-TAL, 45.1584MHz (SMD)	45.1584MHz	1	EA
L401	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L402	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L403	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L502	CLQ06E2R7KRZ	INDUCTOR , CHIP	2.7UH	1	EA
L503	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L504	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
BN14	CJP17GA117ZY	WAFER		1	EA
BN19	CJP09GA117ZY	WAFER		1	EA
BN21	CJP07GA117ZY	WAFER		1	EA
BN42	CJP12GB142ZB	PIN HEADER(12PIN, 2.54mm, ANGLE)		1	EA
BN50	CJP05GA19ZY	WAFER , STRAIGHT		1	EA
BN81	CJP34TT215ZB	PIN HEADER , DUAL ROW(34P, 2.0MM, H=19)		1	EA
CN41	CJP07GA19ZY	WAFER , STRAIGHT(7PIN)		1	EA
CN42	CJP12GB143ZB	PIN HEADER , DIP SOCKET(12PIN, 2.54mm, ANGLE)		1	EA
CN43	CJP05GA01ZY	WAFER(YMW025-05R)		1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , VIDEO		**CUP12033**			
CN47	CJP07GA117ZY	WAFER		1	EA
ET60	CMC1A214	PLATE , EARTH		1	EA
JK40	CJJ9P003Z	JACK , S-VIDEO+CVBS		1	EA
JK41	CJJ9R001Z	JACK , S-VIDEO+CVBS		1	EA
JK42	CJJ9L010Z	JACK , IPOD CONNECTOR	MOLEX SD-52986-020	1	EA
JK51	CJJ9L006Z	JACK , XM	CAM-D96	1	EA
JK62	CJJ4R045Z	JACK , BOARD		1	EA
JK69	CJJ4R045Z	JACK , BOARD		1	EA
JW51	CWE7202070AA	WIRE ASS'Y		1	EA
X503	HOX08000E160C	CRYSTAL 8MHz	8Mhz	1	EA
HDMI PCB		**(CUP12035)**			
Capacitors					
C601	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C602	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C603	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C604	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C605	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C606	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C607	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C610	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C611	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C612	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C613	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C614	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C615	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C616	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C617	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C618	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C619	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C620	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C621	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C622	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C622	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C623	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C624	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C624	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C625	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C626	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C626	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C627	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C628	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C628	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C629	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C634	CCSJA1C100B	CAP , CHIP TANTAL(A TYPE, 10uF/16V, ELNA)	10UF 16V	1	EA
C634	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	10UF 16V	1	EA
C635	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C636	CCSJA1C100B	CAP , CHIP TANTAL(A TYPE, 10uF/16V, ELNA)	10UF 16V	1	EA
C636	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	10UF 16V	1	EA
C637	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C638	CCSJA1C100B	CAP , CHIP TANTAL(A TYPE, 10uF/16V, ELNA)	10UF 16V	1	EA
C638	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	10UF 16V	1	EA
C639	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C640	CCSJA1C100B	CAP , CHIP TANTAL(A TYPE, 10uF/16V, ELNA)	10UF 16V	1	EA
C640	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	10UF 16V	1	EA
C641	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C642	CCUS1H123KC	CAP , CHIP(1608, 50V/12NF)	0.012UF 50V	1	EA
C643	CCUS1C154KC	CAP , CHIP	0.15UF 16V K	1	EA
C644	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C644	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C645	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C646	CCSJA1C100B	CAP , CHIP TANTAL(A TYPE, 10uF/16V, ELNA)	10UF 16V	1	EA
C646	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	10UF 16V	1	EA
C647	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C647	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C648	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C649	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C652	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA

Ref. Designator	Part Number	Description		Qty	
HDMI PCB		**(CUP12035)**			
C653	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C654	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C655	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C656	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C701	CCSJA1C100B	CAP , CHIP TANTAL(A TYPE, 10uF/16V, ELNA)	10UF 16V	1	EA
C701	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	10UF 16V	1	EA
C702	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C703	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C704	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C704	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C707	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C708	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C708	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C709	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C710	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C710	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C721	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C721	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C722	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C723	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C724	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C724	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C725	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C726	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C727	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C728	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C728	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C729	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C730	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C730	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C731	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C732	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C732	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C733	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C734	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C735	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C736	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C736	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C737	CCUS1H222KC	CAP , CHIP	2200PF 50V K	1	EA
C738	CCUS1H222KC	CAP , CHIP	2200PF 50V K	1	EA
C739	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C740	CCUS1H123KC	CAP , CHIP(1608, 50V/12NF)	0.012UF 50V	1	EA
C741	CCUS1C154KC	CAP , CHIP	0.15UF 16V K	1	EA
C743	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C743	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C744	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C745	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C745	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C746	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C747	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C748	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C748	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C749	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C750	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C750	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C751	CCSJA1C100B	CAP , CHIP TANTAL(A TYPE, 10uF/16V, ELNA)	10UF 16V	1	EA
C751	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	10UF 16V	1	EA
C752	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C753	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C754	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C754	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C755	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C755	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C756	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C756	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C757	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C758	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C759	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C760	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C761	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA

Ref. Designator	Part Number	Description		Qty	
HDMI PCB		**(CUP12035)**			
C762	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C763	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C764	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C765	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C766	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C767	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C768	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C769	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C770	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C770	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C771	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C772	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C773	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C773	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C774	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C775	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C780	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C801	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C801	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C802	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C802	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C803	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C804	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C805	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C806	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C807	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C808	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C809	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C810	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C811	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C812	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C813	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C814	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C815	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C816	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C816	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C817	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C818	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C819	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C820	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C821	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C821	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C822	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C823	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C824	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C825	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C825	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C826	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C827	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C828	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C829	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C830	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C831	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C832	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C832	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C833	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C833	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C834	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C835	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C836	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C837	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C838	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C839	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C840	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C841	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C842	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C843	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C844	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C845	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C846	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA

Ref. Designator	Part Number	Description		Qty	
HDMI PCB		**(CUP12035)**			
C847	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C848	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C849	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C849	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C850	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C850	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C851	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C852	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C853	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C854	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C855	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C856	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C857	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C858	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C859	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C860	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C861	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C862	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C863	CCUS1H103KC	CAP , CHIP	0.01UF 50V K	1	EA
C864	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C864	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C865	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C866	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C867	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C868	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C868	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C869	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C870	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C870	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C871	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C872	CCUI1C104KC	CAP , CHIP(1005, 16V/0.1UF)	0.1UF 16V	1	EA
C873	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C874	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C875	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C876	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C877	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C878	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C879	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C880	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C881	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C882	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C883	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C884	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C885	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C886	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C887	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C888	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C889	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C890	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C891	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C892	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C893	CCUS1H470JA	CAP , CHIP	47PF 50V J	1	EA
C894	CCUS1H470JA	CAP , CHIP	47PF 50V J	1	EA
C895	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C897	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C898	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C901	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C902	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C903	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C904	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C905	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C906	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C907	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C908	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C909	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C910	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C911	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C912	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C913	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C914	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA

Ref. Designator	Part Number	Description		Qty	
HDMI PCB		**(CUP12035)**			
C915	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C916	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C917	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C918	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C919	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C920	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C921	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C921	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C922	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C922	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C923	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C923	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C924	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C927	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C928	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C929	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C930	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C931	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C932	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C933	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C934	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C935	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C936	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C937	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C938	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C939	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C940	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C941	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C942	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C943	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C944	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C945	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C946	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C947	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C948	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C949	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C950	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C951	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C952	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C953	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C954	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C956	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C957	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C958	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C959	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C960	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C961	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C962	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C963	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C964	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C965	CCUS1H180JA	CAP , CHIP(18PF/50V)	18PF 50V J	1	EA
C966	CCUS1H180JA	CAP , CHIP(18PF/50V)	18PF 50V J	1	EA
C967	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C968	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C968	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C969	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C969	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C970	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C970	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C971	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C971	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C972	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C972	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C973	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C973	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C974	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C974	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C975	CCSJA1C100B	CAP , CHIP TANTAL(A TYPE, 10uF/16V, ELNA)	10UF 16V	1	EA
C975	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	10UF 16V	1	EA
C976	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA

Ref. Designator	Part Number	Description		Qty	
HDMI PCB		**(CUP12035)**			
C977	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C978	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C978	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C979	CCSJA1C100B	CAP , CHIP TANTAL(A TYPE, 10uF/16V, ELNA)	10UF 16V	1	EA
C979	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	10UF 16V	1	EA
C980	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C981	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C982	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C982	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C982	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C983	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C983	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C983	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C984	CCSJA0J220B	CAP , CHIP TANTAL(A TYPE, 22uF/6.3V, ELNA)	22UF 6.3V	1	EA
C984	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	22UF 6.3V	1	EA
C651	CCEA0JKR3222E	CAP , ELECT	2200UF 6.3V	1	EA
C657	CCEA0JKR3222E	CAP , ELECT	2200UF 6.3V	1	EA
C711	CCEA1AH221T	CAP , ELECT	220UF 10V	1	EA
Semiconductors					
D941	HVDRB160L60TE25	DIODE , SCHOTTKEY BARRIER HK	RB160L-60TE25	1	EA
IC61	CVINJM2845DL118	IC, NJM2845DL1-18(TE1) REGULATOR	JRC(NJM2845DL1-18)	1	EA
IC62	HVINJM2391DL133	I.C , CHIP REGULATOR (+3.3V)	JRC(NJM2391DL1-33)	1	EA
IC63	CVIKIA1117S50	I.C , REGULATOR(SOT-223)	KEC(KIA1117S50-RTK/P)	1	EA
IC64	CVIKIA1117S50	I.C , REGULATOR(SOT-223)	KEC(KIA1117S50-RTK/P)	1	EA
IC65	CVINJM2845DL118	IC, NJM2845DL1-18(TE1) REGULATOR	JRC(NJM2845DL1-18)	1	EA
IC71	CVINJM2566V	I.C , NJM2566AV(TE1) 6 CHAN VIDEO AMP	JRC(NJM2566AV)	1	EA
IC72	CVIADV7342BSTZ	I.C , VIDEO ENCODER	ANLOG DEVICE(ADV7342BSTZ)	1	EA
IC73	CVIMK2302S01T	I.C , BUFFER	IDT(MK23020S-01T)	1	EA
IC74	CVINJM2845DL133	I.C , REGULATOR(3.3V, TO-252-3)	JRC(NJM2845DL1-13)	1	EA
IC75	CVIA3S56D40ETPG5	I.C, 256MB DDR SDRAM	ZENTEL(A3S56D40ETPG5)	1	EA
IC76	CVIA3S56D40ETPG5	I.C, 256MB DDR SDRAM	ZENTEL(A3S56D40ETPG5)	1	EA
IC77	CVIES29LV320ET70TG	I.C , FLASH ROM 32Mbit IC (TOP BOOST)	EXCEL SEMI(ES29LV320ET70TG)	1	EA
IC77	CVIF49L320UA70TG	I.C , 32M FLASH(48PIN TSOPI)	ESMT(F49L320UA70TG)	1	EA
IC81	CVIFLI30336AC	I.C , VIDEO PROCESSOR	GENESIS(FLI30336)	1	EA
IC82	CVIST232CDR	IC , RS232C(SO-16TYPE)	ST(ST232CDR)	1	EA
IC84	HVIKIC7SZ08FU	I.C ,INPUT AND GATE (USV PACKAGE)	KEC(KIC7SZ08FU-RTK)	1	EA
IC87	HVINJM2391DL125	I.C , CHIP REGULATOR (+2.5V)	JRC(NJM2391DL1-25)	1	EA
IC89	HVINJM2391DL133	I.C , CHIP REGULATOR (+3.3V)	JRC(NJM2391DL1-13)	1	EA
IC91	CVITC74VHCT14AFT	I.C , HEX SCHMITT INVERTER(14PIN, TSSOP)	TOSHIBA(TC74VHC14AFT)	1	EA
IC92	CVISII9185CTU	IC , HDMI SW(80PIN, TQFP)	SILICON IMAGE(SII9185CTU)	1	EA
IC93	CVISII9135CTU	IC , HDMI RX(144PIN, TQFP)	SILICON IMAGE(SII9135CTU)	1	EA
IC94	CVISII9134CTU	IC , HDMI TX(100PIN, TQFP)	SILICON IMAGE(SII9134CTU)	1	EA
IC95	HVIKIC7SZ08FU	I.C ,INPUT AND GATE (USV PACKAGE)	KEC(KIC7SZ08FU-RTK)	1	EA
IC96	CVITC74VCX541FT	I,C , OCTAL BUS BUFFER	TOSHIBA(TC74VCX541FT)	1	EA
Q901	HVTKRA102S	TRANSISTOR , PNP, CHIP	KRA102S	1	EA
Q902	CVTKRC103S	TRANSISTOR , PNP, CHIP	KRC103S	1	EA
Q903	CVTUPA672T	F.E.T	UPA672T	1	EA
Q904	HVTKRA102S	TRANSISTOR , PNP, CHIP	KRA102S	1	EA
Q905	CVTKRC103S	TRANSISTOR , PNP, CHIP	KRC103S	1	EA
Q906	CVTUPA672T	F.E.T	UPA672T	1	EA
Q907	HVTKRA102S	TRANSISTOR , PNP, CHIP	KRA102S	1	EA
Q908	CVTKRC103S	TRANSISTOR , PNP, CHIP	KRC103S	1	EA
Q909	HVTKRC111S	TRANSISTOR , CHIP	KRC111S	1	EA
Q910	CVTUPA672T	F.E.T	UPA672T	1	EA
Q911	CVTKRC103S	TRANSISTOR , PNP, CHIP	KRC103S	1	EA
Q912	CVTUPA672T	F.E.T	UPA672T	1	EA
Resistors					
RN31	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN32	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN33	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN34	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN35	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN36	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN37	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN38	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN39	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA

Ref. Designator	Part Number	Description		Qty	
HDMI PCB		**(CUP12035)**			
RN40	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN41	CRJ104DJ220T	RES,4ARRAY	22 OHM/1608*4	1	EA
RN42	CRJ104DJ220T	RES,4ARRAY	22 OHM/1608*4	1	EA
RN43	CRJ104DJ220T	RES,4ARRAY	22 OHM/1608*4	1	EA
RN44	CRJ104DJ220T	RES,4ARRAY	22 OHM/1608*4	1	EA
RN45	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN46	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN47	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN48	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN49	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN50	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN51	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN52	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN54	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN55	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN56	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN61	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	MNR04M0APJ330	1	EA
RN62	CRJ104DJ100T	RES, ARRAY, 10R (1608)	10 OHM/1608*4	1	EA
RN63	CRJ104DJ100T	RES, ARRAY, 10R (1608)	10 OHM/1608*4	1	EA
RN64	CRJ104DJ100T	RES, ARRAY, 10R (1608)	10 OHM/1608*4	1	EA
RN65	CRJ104DJ100T	RES, ARRAY, 10R (1608)	10 OHM/1608*4	1	EA
RN66	CRJ104DJ100T	RES, ARRAY, 10R (1608)	10 OHM/1608*4	1	EA
RN67	CRJ104DJ100T	RES, ARRAY, 10R (1608)	10 OHM/1608*4	1	EA
RN68	CRJ104DJ100T	RES, ARRAY, 10R (1608)	10 OHM/1608*4	1	EA
RN69	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K OHM/1608*4	1	EA
RN70	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K OHM/1608*4	1	EA
RN71	CRJ062IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X2)	33 OHM 1/16W	1	EA
RN72	CRJ062IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X2)	33 OHM 1/16W	1	EA
RN73	CRJ062IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X2)	33 OHM 1/16W	1	EA
RN74	CRJ062IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X2)	33 OHM 1/16W	1	EA
RN75	CRJ062IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X2)	33 OHM 1/16W	1	EA
RN81	CRJ104DJ103T	RES, ARRAY, 10K (1608)	10K OHM/1608*4	1	EA
RN82	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN83	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN84	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN85	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN86	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN87	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN88	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN89	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN90	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN91	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN92	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN93	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
RN94	CRJ064IJ330T	RES , CHIP NETWORK(1/16W, 33ohm, 1005X4)	33 OHM 1/16W	1	EA
R801	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R802	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R803	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R804	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R805	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R806	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R807	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R808	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R809	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R810	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R811	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R812	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R813	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R814	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R815	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R816	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R817	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R818	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R819	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R820	CRJ10DJ820T	RES , CHIP	82 OHM	1	EA
R821	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R822	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R825	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R826	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R827	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA

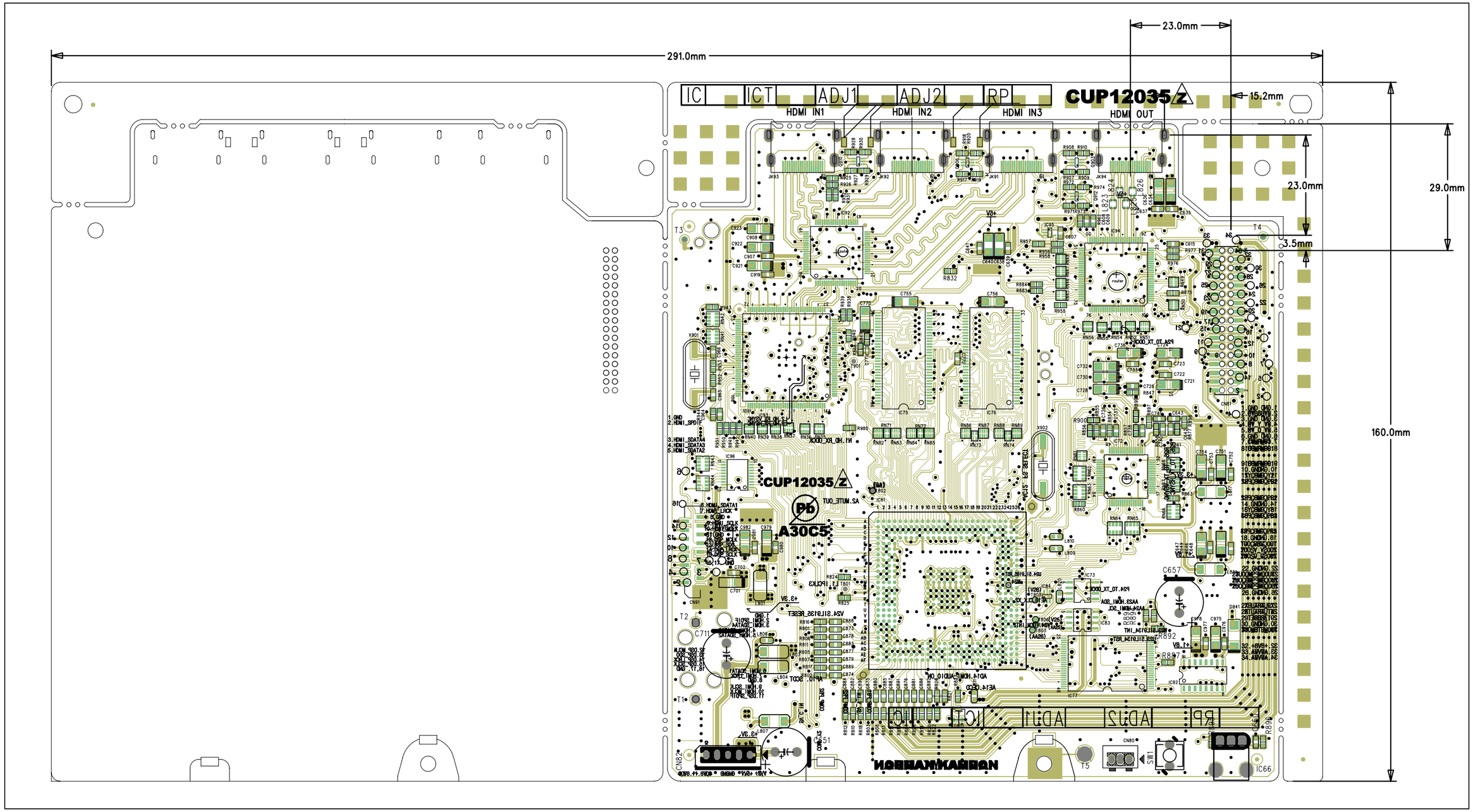
Ref. Designator	Part Number	Description		Qty	
HDMI PCB		**(CUP12035)**			
R832	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R838	CRJ10DJ750T	RES , CHIP	10K OHM	1	EA
R839	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R840	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R841	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R842	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R843	CRJ10DJ750T	RES , CHIP	75 OHM	1	EA
R844	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R845	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R846	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R847	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R848	CRJ10DJ301T	RES , CHIP	300 OHM	1	EA
R849	CRJ10DJ301T	RES , CHIP	300 OHM	1	EA
R850	CRJ10DJ301T	RES , CHIP	300 OHM	1	EA
R851	CRJ10DJ301T	RES , CHIP	300 OHM	1	EA
R852	CRJ10DJ301T	RES , CHIP	300 OHM	1	EA
R853	CRJ10DJ301T	RES , CHIP	300 OHM	1	EA
R854	CRJ10DF6801T	RES, CHIP 6.8KOHM/1608/1%	6.8K OHM 1%	1	EA
R855	CRJ10DF4301T	RES , CHIP	4.3K OHM 1%	1	EA
R856	CRJ10DJ221T	RES , CHIP	220 OHM	1	EA
R857	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R858	CRJ10DJ151T	RES , CHIP	150 OHM	1	EA
R860	CRJ10DJ100T	RES , CHIP	10 OHM	1	EA
R861	CRJ10DJ100T	RES , CHIP	10 OHM	1	EA
R863	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R864	CRJ10DF2800T	RES , CHIP(1/10W, 280ohm, 1608, 1%)	280 OHM 1%	1	EA
R865	CRJ10DF2800T	RES , CHIP(1/10W, 280ohm, 1608, 1%)	280 OHM 1%	1	EA
R867	CRJ10DF1002T	RES , CHIP 1%	10K /1/10W/F	1	EA
R868	CRJ10DF1002T	RES , CHIP 1%	10K /1/10W/F	1	EA
R869	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R870	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R871	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R873	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R874	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R875	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R876	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R877	CRJ10DJ151T	RES , CHIP	150 OHM	1	EA
R878	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R879	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R880	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R881	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R882	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R883	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R884	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R887	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R892	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R893	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R894	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R897	CRJ10DJ200T	RES , CHIP(1/10W, 20OHM,1608)	20 OHM	1	EA
R898	CRJ10DJ200T	RES , CHIP(1/10W, 20OHM,1608)	20 OHM	1	EA
R899	CRJ10DJ221T	RES , CHIP	220 OHM	1	EA
R900	CRJ10DJ392T	RES . CHIP	3.9K OHM	1	EA
R901	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R902	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R903	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R904	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R905	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R906	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R907	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R908	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R909	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R910	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R911	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R912	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R913	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R914	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R915	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R916	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R917	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R918	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA

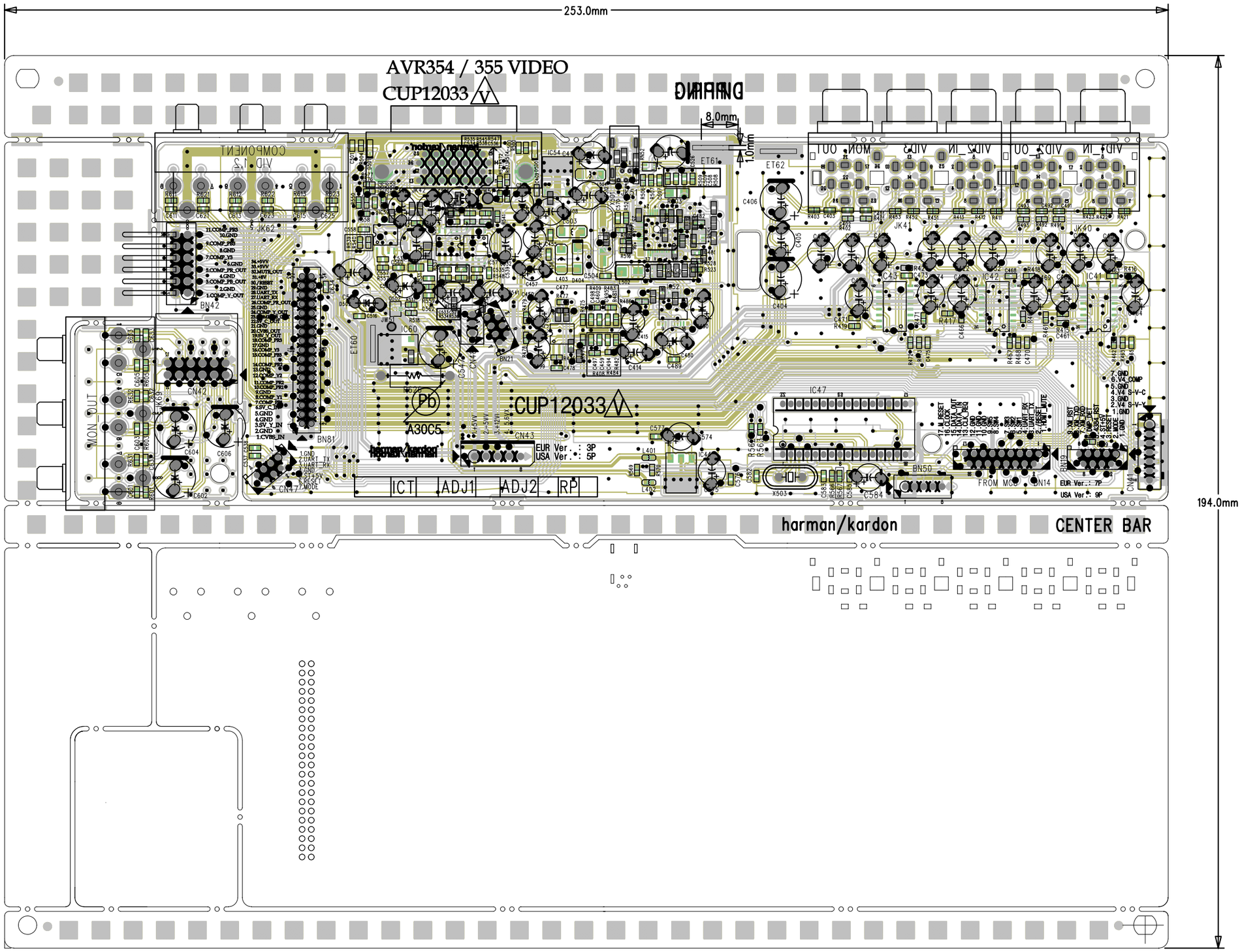
Ref. Designator	Part Number	Description		Qty	
HDMI PCB		**(CUP12035)**			
R919	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R920	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R921	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R922	CRJ10DJ223T	RES , CHIP	22K OHM	1	EA
R923	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R924	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R925	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R926	CRJ10DJ470T	RES , CHIP	47 OHM	1	EA
R927	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R928	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R929	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R930	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R933	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R934	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R935	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R936	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R937	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R938	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R939	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R940	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R941	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R942	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R943	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R944	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R945	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R947	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R948	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R949	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R950	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R951	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R952	CRJ10DJ105T	RES , CHIP	1M OHM	1	EA
R953	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R954	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R955	CRJ10DJ220T	RES , CHIP	22 OHM	1	EA
R956	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R958	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R960	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R961	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R962	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R963	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R964	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R969	CRJ10DF8200T	RES , CHIP 1% 820 OHM	820 OHM	1	EA
R970	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R971	CRJ10DJ182T	RES , CHIP	1.8K OHM	1	EA
R972	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R973	CRJ10DJ103T	RES , CHIP	10K OHM	1	EA
R974	CRJ10DJ182T	RES , CHIP	1.8K OHM	1	EA
R975	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R976	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R977	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R980	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
R981	CRJ10DJ0R0T	RES , CHIP	0 OHM	1	EA
Miscellaneous					
X901	HOX27000E180S	CRYSTAL , CHIP(27MHZ,SMD)	27MHz	1	EA
X902	COX19660E330S	X-TAL, CHIP, 19.6608 MHz (33P)	19.6608 MHz	1	EA
	CMY1A297	HEAT SINK		1	EA
	CWE4202150AA	WIRE ASS'Y(1P, 150MM, #24)		2	EA
CN80	CJP03GA19ZY	WAFER , STRAIGHT(3PIN)		1	EA
CN82	CJP05GA01ZY	WAFER(YMW025-05R)		1	EA
CN81	CJP34HA213ZB	PIN SOCKET , FEMALE(34P, 2.0MM)		1	EA
CN91	CJP17GA193ZY	WAFER, CARD CABLE (SMD)		1	EA
JK91	HJJ9H003Z	JACK , HDMI(JALCO)	YKF45-7009	1	EA
JK92	HJJ9H003Z	JACK , HDMI(JALCO)	YKF45-7009	1	EA
JK93	HJJ9H003Z	JACK , HDMI(JALCO)	YKF45-7009	1	EA
JK94	HJJ9H003Z	JACK , HDMI(JALCO)	YKF45-7009	1	EA
L801	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L802	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L803	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA

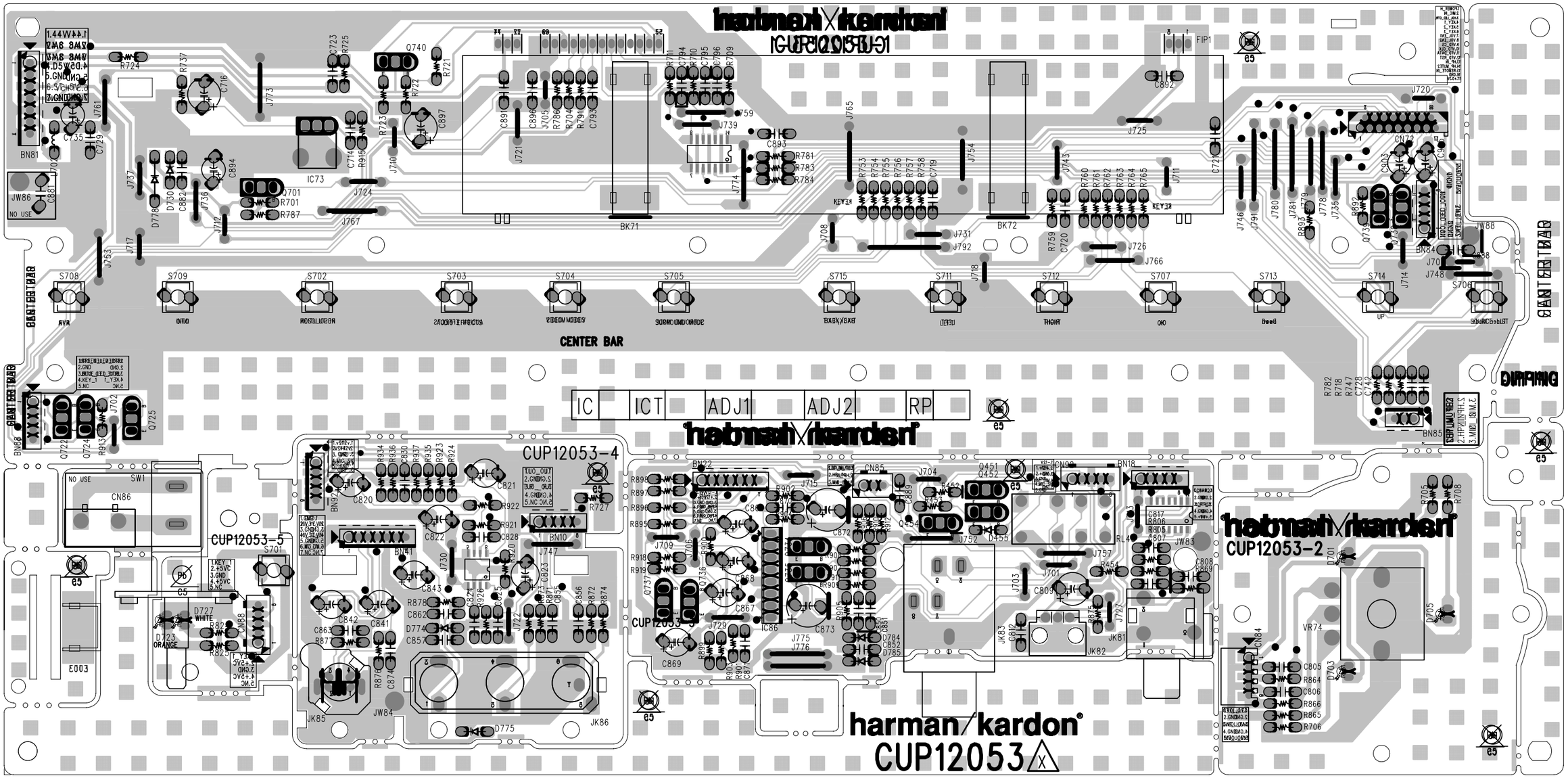
Ref. Designator	Part Number	Description		Qty	
HDMI PCB		**(CUP12035)**			
L804	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L805	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L806	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L807	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L808	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L809	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L810	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L811	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L812	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L813	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L814	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L815	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L816	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L817	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L818	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L819	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L820	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L821	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L822	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L823	CLZ9R009Z	CHOKE COIL, CHIP (FOR HDMI)		1	EA
L824	CLZ9R009Z	CHOKE COIL, CHIP (FOR HDMI)		1	EA
L825	CLZ9R009Z	CHOKE COIL, CHIP (FOR HDMI)		1	EA
L826	CLZ9R009Z	CHOKE COIL, CHIP (FOR HDMI)		1	EA
L901	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L902	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L903	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L904	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L906	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L907	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L908	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L909	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L910	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L911	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L912	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L913	CLZ9R005Z	FERRITE , CHIP BEAD(60ohm, 1608)	HCB1608KF-600T30	1	EA
L914	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L915	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L916	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
L917	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60	1	EA
MULTIROOM/A-BUS PCB		**CUP12036**			
Capacitors					
C450	CCEA1VH471E	CAP , ELECT	470UF 35V	1	EA
C412	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C413	CCUS1H223KC	CAP , CHIP	0.022UF 50V K	1	EA
C428	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C442	CCUS1H151JA	CAP , CHIP	150PF 50V J	1	EA
C448	CCUS1H331JA	CAP , CHIP	330PF 50V J	1	EA
C467	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C468	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C469	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C470	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C475	CCUS1H104KC	CAP , CHIP	0.1UF 50V K	1	EA
C476	CCUS1H101JA	CAP , CHIP	100PF 50V J	1	EA
C477	CCUS1H101JA	CAP , CHIP	100PF 50V J	1	EA
C478	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C479	CCUS1A105KC	CAP , CHIP	1UF 10V K	1	EA
C414	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C415	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C441	CCEA1EH101T	CAP , ELECT	100UF 25V	1	EA
C443	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C444	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C446	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C447	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C449	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C452	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C453	CCEA1HH100T	CAP , ELECT	10UF 50V	1	EA
C454	CCEA1EH101T	CAP , ELECT	100UF 25V	1	EA

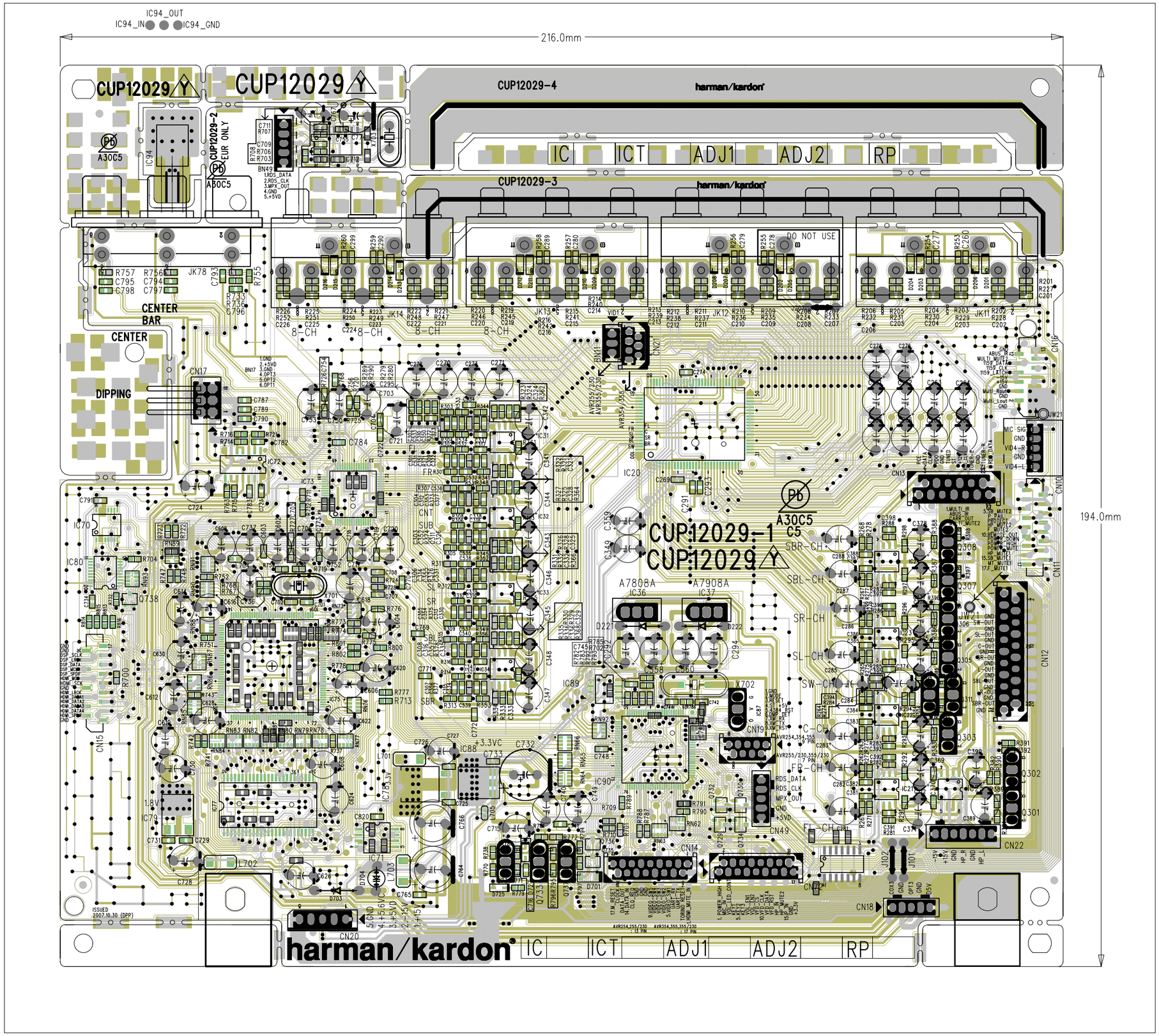
Ref. Designator	Part Number	Description		Qty	
MULTIROOM/A-BUS PCB		**CUP12036**			
Semiconductors					
D442	CVD1SS133MT	DIODE	1SS133	1	EA
D443	CVDZJ6.8BT	DIODE , ZENER	ZJ6.8B 1/2W	1	EA
D444	CVDZJ6.8BT	DIODE , ZENER	ZJ6.8B 1/2W	1	EA
D445	CVDZJ6.8BT	DIODE , ZENER	ZJ6.8B 1/2W	1	EA
D446	CVDZJ6.8BT	DIODE , ZENER	ZJ6.8B 1/2W	1	EA
D447	HVDMTZJ12BT	DIODE , ZENER	MTZJ12B 1/2W	1	EA
Q451	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q452	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q453	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q454	HVTKTC2874BT	TRANSISTOR , MUTE NPN	KTC2874B	1	EA
Q457	HVTKSA1175YT	TRANSISTOR PNP	KSA1175Y(DEAD)	1	EA
Q458	HVTKTA1271YT	TRANSISTOR PNP	KTA1271Y	1	EA
IC52	BVIKP1010B	IC, PHOTO COUPLER	COSMO(KP1010B)	1	EA
D475	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
D476	CVD1SS355T	DIODE , CHIP	1SS355T	1	EA
IC44	HVINJW1159M	I.C , VOLUME (2-CH)	JRC(NJW1159M)	1	EA
IC45	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
IC50	HVINJM2068MTE1	I.C , DUAL OP AMP	JRC(NJM2068M-TE1)	1	EA
Q456	HVTKRA107ST	TRANSISTOR , PNP, CHIP	KRA107S	1	EA
Resistors					
R447	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R448	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R452	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R454	CRJ10DJ562T	RES , CHIP	5.6K OHM	1	EA
R455	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R456	CRJ10DJ562T	RES , CHIP	5.6K OHM	1	EA
R457	CRJ10DJ821T	RES , CHIP	820 OHM	1	EA
R458	CRJ10DJ821T	RES , CHIP	820 OHM	1	EA
R460	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R461	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R462	CRJ10DJ104T	RES , CHIP	100K OHM	1	EA
R463	CRJ10DJ821T	RES , CHIP	820 OHM	1	EA
R464	CRJ10DJ821T	RES , CHIP	820 OHM	1	EA
R465	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R466	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R467	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R468	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R469	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R470	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R471	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R472	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R473	CRJ10DJ184T	RES , CHIP	180K OHM	1	EA
R474	CRJ10DJ122T	RES , CHIP	1.2K OHM	1	EA
R475	CRJ10DJ4R7T	RES , CHIP	4.7 OHM	1	EA
R476	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R477	CRJ10DJ101T	RES , CHIP	100 OHM	1	EA
R478	CRJ10DJ562T	RES , CHIP	5.6K OHM	1	EA
R479	CRJ10DJ562T	RES , CHIP	5.6K OHM	1	EA
R480	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
R481	CRJ10DJ561T	RES , CHIP	560 OHM	1	EA
R482	CRJ10DJ472T	RES , CHIP	4.7K OHM	1	EA
R483	CRJ10DJ222T	RES , CHIP	2.2K OHM	1	EA
R484	CRJ10DJ473T	RES , CHIP	47K OHM	1	EA
R485	CRJ14CJ101T	RES , CHIP 1/4W	100 OHM	1	EA
R489	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R490	CRJ10DJ332T	RES , CHIP	3.3K OHM	1	EA
R499	CRJ10DJ102T	RES , CHIP	1K OHM	1	EA
Miscellaneous					
CN16	CJP13GA193ZY	WAFER , CARD CABLE (SMD)		1	EA
BN95	CWB1C902080EN	WIRE ASS'Y		1	EA
CN89	CJP02GA19ZY	WAFER , 2PIN	CJP02GA19ZY	1	EA
ET03	CMD1A569	BRACKET , PCB		1	EA
JK16	CJJ4N076Z	JACK , IN/OUT		1	EA

Ref. Designator	Part Number	Description		Qty	
PCB , REGULATOR		**CUP12055**			
Capacitors					
C201	CCEA1EH101T	CAP , ELECT	100UF 25V	1	EA
C203	CCEA1VH101T	CAP , ELECT	100UF 35V	1	EA
C204	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C205	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V	1	EA
C206	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V	1	EA
C211	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C212	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C213	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C214	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
C301	CCEA1EH101T	CAP , ELECT	100UF 25V	1	EA
C302	CCEA1EH101T	CAP , ELECT	100UF 25V	1	EA
C303	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C304	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C311	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V	1	EA
C312	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V	1	EA
C901	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V	1	EA
C902	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V	1	EA
C903	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	0.022UF 50V	1	EA
C905	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C906	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C907	CCEA1CH101T	CAP , ELECT	100UF 16V	1	EA
C912	CCEA1EH471E	CAP , ELECT	470UF/25V	1	EA
Semiconductors					
D955	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
D901	HVD1N5819T	DIODE , SCHOTTKY	1N5819	1	EA
D956	HVD2A04H	DIODE , RECT(2A)	2A04H	1	EA
IC21	CVIKIA278R00PI	I.C , REGULATOR(TO-220IS-4)	KEC(KIA278R00PI)	1	EA
IC22	CVIKIA7824API	I.C , VOL-REGULATOR(24V TO-220IS)	KEC(KIA7824API)	1	EA
IC23	HVIKIA378R05PI	REGULATOR(5V OUPUT LOW DROP) KIA378R05	KEC(KIA378R05PI)	1	EA
IC31	CVIKIA278R00PI	I.C , REGULATOR(TO-220IS-4)	KEC(KIA278R00PI)	1	EA
IC32	CVIKIA378R09PI	I.C , REGULATOR(+9V, 3A, TO-220IS-4)	KEC(KIA378R09PI)	1	EA
IC92	HVIKIA7805API	REGULATOR, +5V	KEC(KIA7805API)	1	EA
IC93	CVIKIA7905PI	I.C , REGULATOR(-5V)	KEC(KIA7905PI)	1	EA
IC94	HVIKIA7809API	I.C , REGULATOR +9V	KEC(KIA7809API)	1	EA
Resistors					
R201	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R202	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J	1	EA
R203	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R211	CRD20TF4700T	RES , CARBON	470 OHM 1%	1	EA
R212	CRD20TF2000T	RES , CARBON	200 OHM 1%	1	EA
R301	CRD20TJ332T	RES , CARBON	3.3K OHM 1/5W J	1	EA
R302	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J	1	EA
R303	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J	1	EA
Miscellaneous					
BN31	CWB1C905100EN	WIRE ASS'Y		1	EA
BN43	CWB1C905150BM	WIRE ASS'Y		1	EA
BN82	CWB1C905120BMA	7P FERRITE CORE WIRE ASS'Y(120MM, 2.5MM, 1 CORE)		1	EA
	CLZ9Z028Z	FERRITE , CORE(21.2X6.4X12.7)	K5C T	1	EA
	CWB1C905120BMZ	7P WIRE ASS'Y (2.5mm,120mm)		1	EA
CN21	CJP05GA19ZY	WAFER , STRAIGHT		1	EA
CN31	CJP05GA19ZY	WAFER , STRAIGHT		1	EA
CN97	CJP07GA19ZY	WAFER , STRAIGHT(7PIN)		1	EA
CN99	CJP03GA01ZY	WAFER		1	EA
	CWE4202150AA	WIRE ASS'Y(1P, 150MM, #24)		1	EA
TUNER MODULE	**CNVM9011MS071LA**	**TUNER MODULE USA ONLY**		1	EA

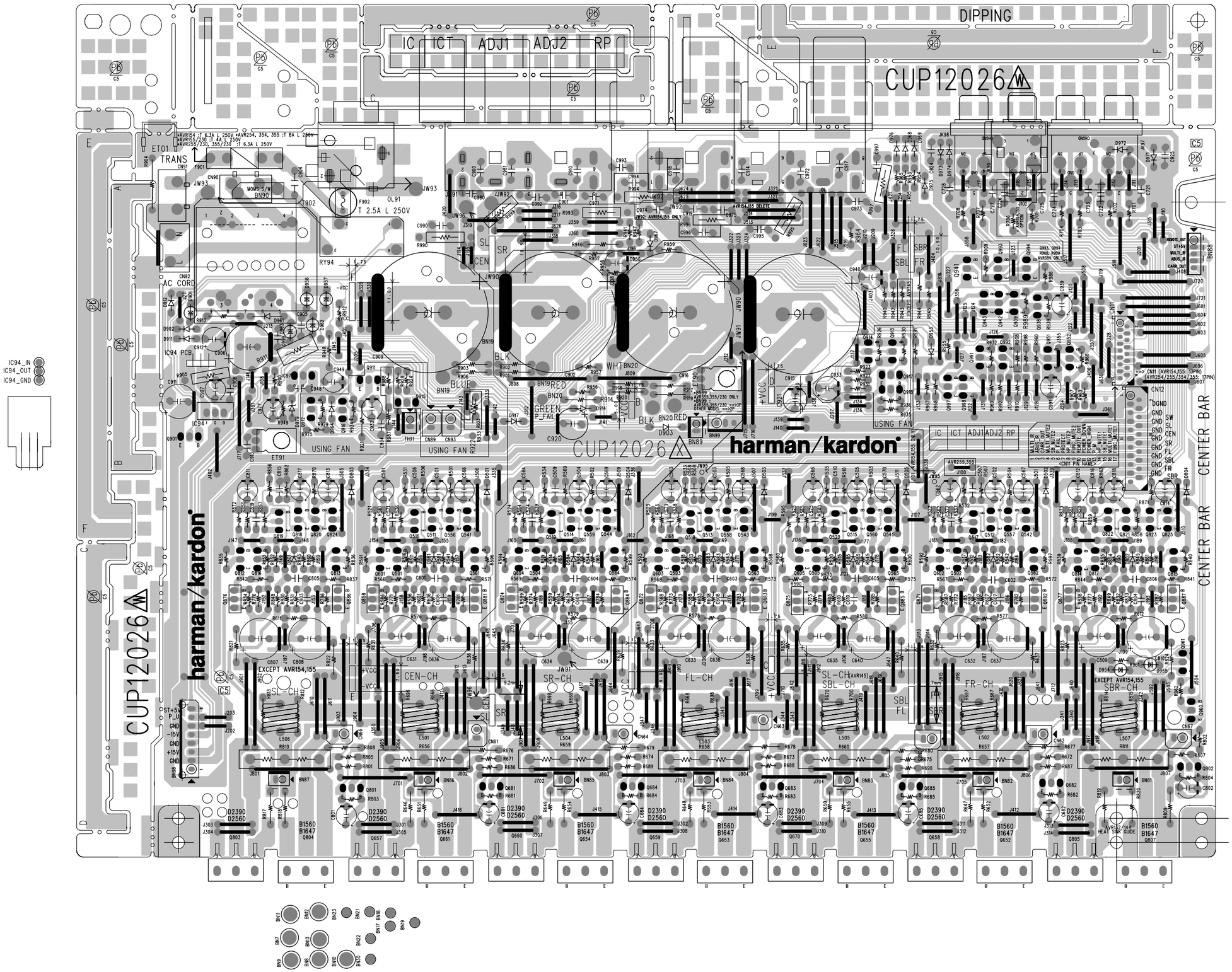

291.0mm
23.0mm
15.2mm
23.0mm
3.5mm
29.0mm
160.0mm
IC
ICT
ADJ1
ADJ2
RP
CUP12035/Z
HDMI IN1
HDMI IN2
HDMI IN3
HDMI OUT
A30C5
Pb

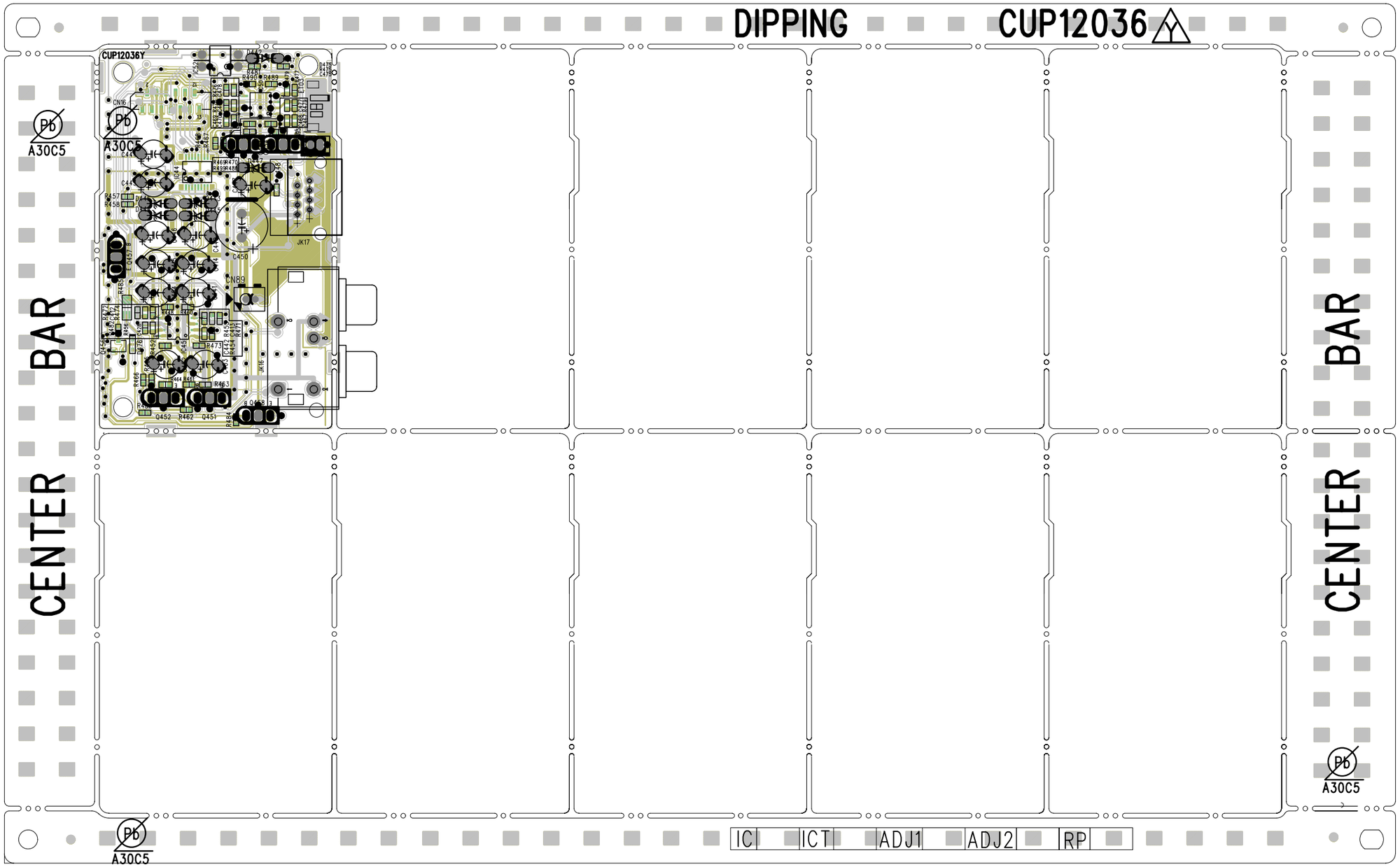

253.0mm
194.0mm
AVR354 / 355 VIDEO
CUP12033
8.0mm
1.0mm
CUP12033
A30C5
EUR Ver. : 3P
USA Ver. : 5P
ICT
ADJ1
ADJ2
RP
harman/kardon
CENTER BAR

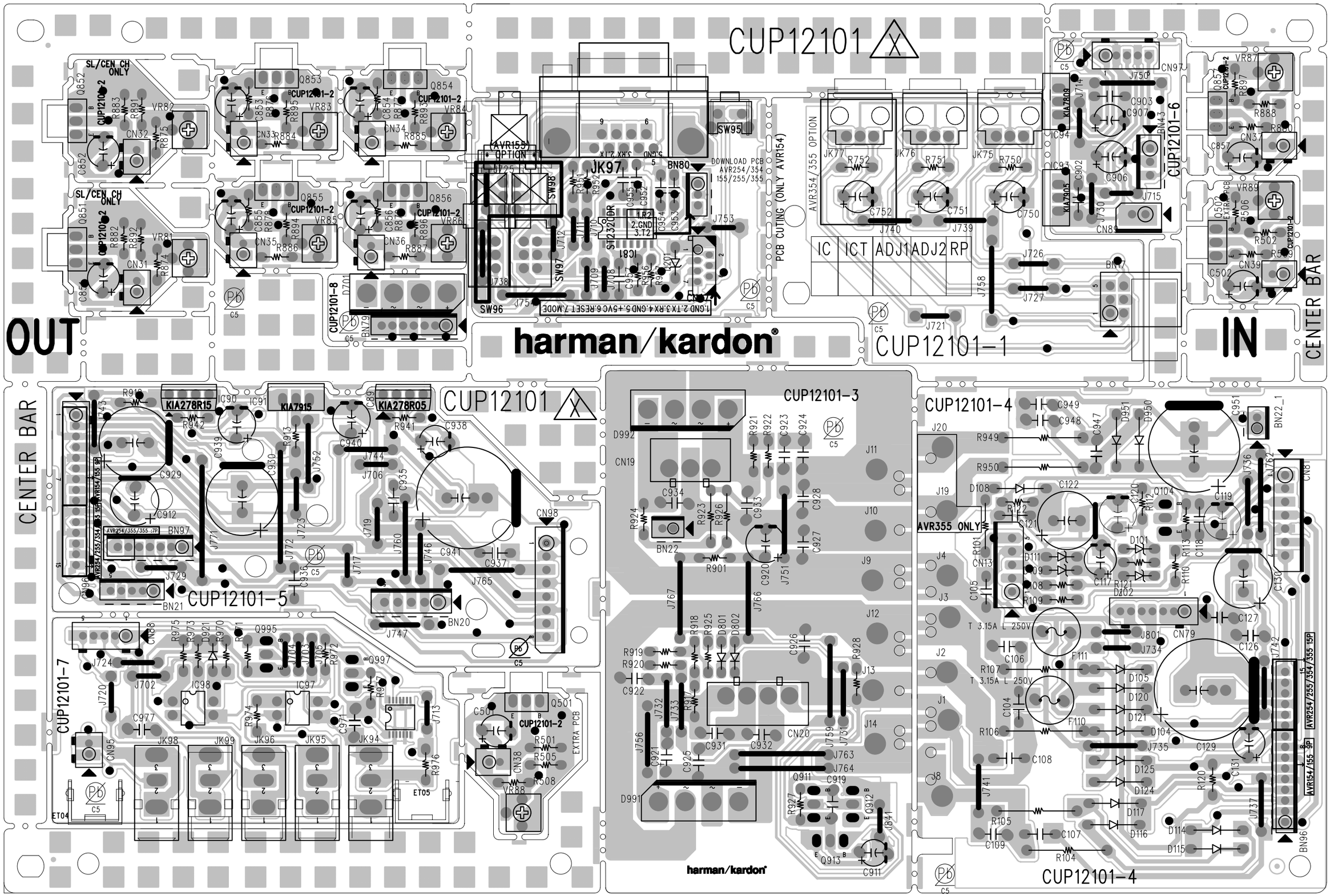

CENTER BAR
IC ICT ADJ1 ADJ2 RP
CUP12053-4
CUP12053-5
CUP12053-2
CUP12053
harman/kardon
DIMMING

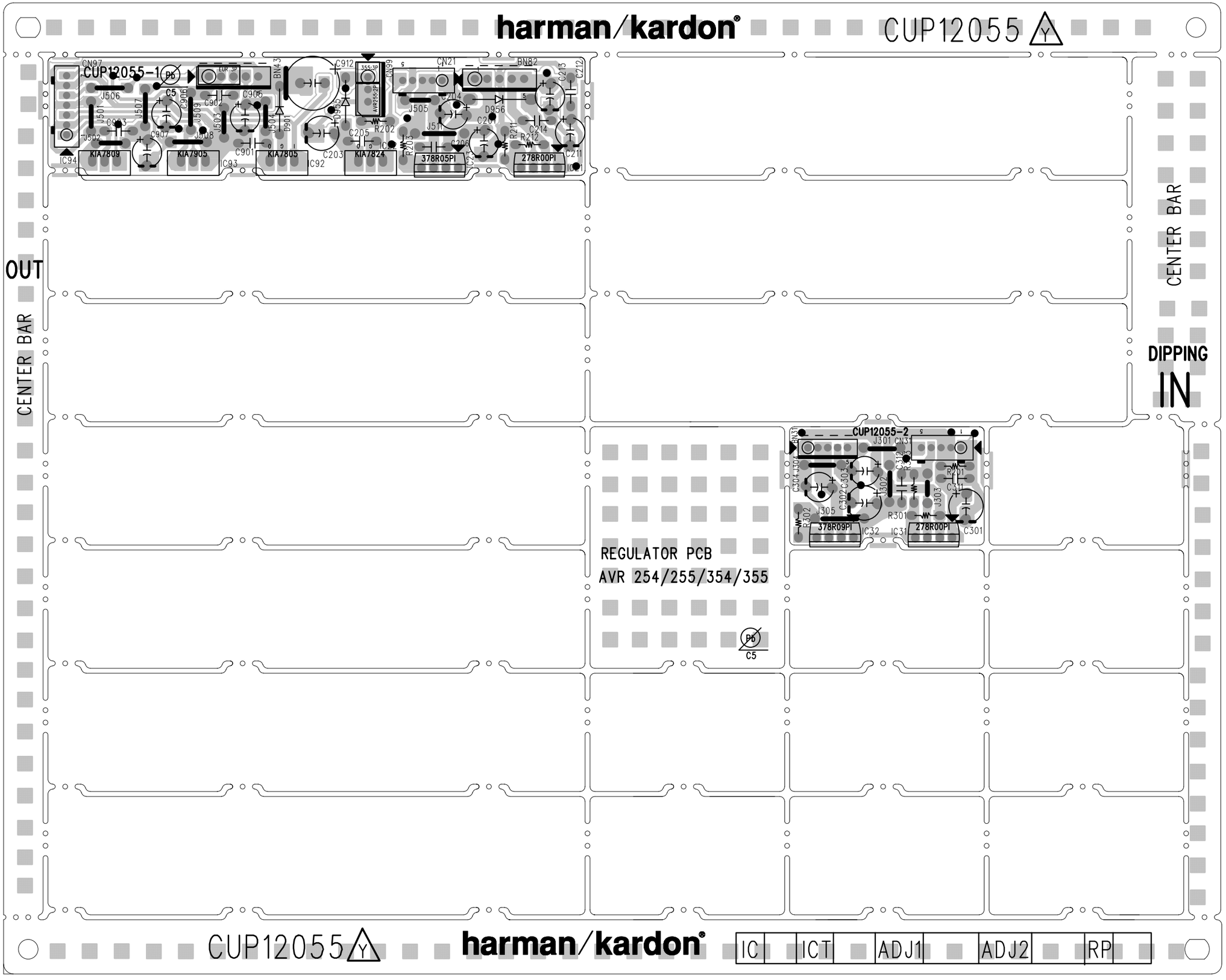

IC94_OUT
IC94_IN
IC94_GND
216.0mm
194.0mm
CUP12029/Y
CUP12029-2
EUR ONLY
CUP12029-4
CUP12029-3
harman/kardon
IC
ICT
ADJ1
ADJ2
RP
DO NOT USE
CENTER BAR
CENTER
DIPPING
A30C5
CUP12029-1 C5
CUP12029/Y
A7808A
A7908A
SBR-CH
SBL-CH
SR-CH
SL-CH
SW-CH
C-CH
FR-CH
FL-CH
8-CH
ISSUED 2007.10.30 (DPP)

CUP12026


DIPPING
CUP12026
IC ICT ADJ1 ADJ2 RP
TRANS
AC CORD
IC94 PCB
IC94_IN
IC94_OUT
IC94_GND
USING FAN
CENTER-BAR
harman/kardon
SL-CH
CEN-CH
SR-CH
FL-CH
SBL-CH
FR-CH
SBR-CH
EXCEPT AVR154,155
AVR255,355
D2390
D2560
B1560
B1647


DIPPING
CUP12036
CUP12036Y
BAR
CENTER
BAR
CENTER
Pb
A30C5
IC
ICT
ADJ1
ADJ2
RP


CUP12101
OUT
IN
CENTER BAR
harman/kardon®
CUP12101-1
CUP12101-2
CUP12101-3
CUP12101-4
CUP12101-5
CUP12101-6
CUP12101-7
CUP12101-8
PCB CUTING (ONLY AVR154)
AVR354/355 OPTION
DOWNLOAD PCB
AVR254/354
155/255/355
SL/CEN CH ONLY
EXTRA PCB
AVR355 ONLY
IC ICT ADJ1 ADJ2 RP
KIA278R15
KIA7915
KIA278R05
KIA7809
KIA7805
ST232CDR
T 3.15A L 250V
AVR254/255/354/355 15P
AVR154/155 9P


harman/kardon®
CUP12055 Y
CUP12055-1
CN97
J506
C5
J501
J507
C906
J509
J503
J508
C902
C905
BN43
C912
CN99
CN21
BN82
C213
C212
C903
C907
J502
J504
D901
D955
C205
R202
J505
J511
C204
D956
C207
R211
C214
R212
C211
IC94
KIA7809
KIA7905
IC93
C901
KIA7805
IC92
C203
KIA7824
R203
C206
378R05PI
278R00PI
IC91
CENTER BAR
OUT
CENTER BAR
DIPPING
IN
CUP12055-2
J301 CN31
C304 J304
C302 C303
J302
J305
C312
C313
J306
J307
J303
C310
C311
R302
R301
378R09PI
IC32
IC31
278R00PI
C301
REGULATOR PCB
AVR 254/255/354/355
C5
CUP12055 Y
harman/kardon®
IC
ICT
ADJ1
ADJ2
RP

TOSHIBA TMP86F409NG

CMOS 8-Bit Microcontroller

TMP86F409NG

Product No.	ROM (FLASH)	RAM	Package	Emulation Chip
TMP86F409NG	4096 bytes	512 bytes	SDIP32-P-400-1.78	TMP86C909/987XB

1.1 Features

1. 8-bit single chip microcomputer TLCS-870/C series
   - Instruction execution time :

     0.25 μs (at 16 MHz)

     122 μs (at 32.768 kHz)
   - 132 types & 731 basic instructions
2. 17interrupt sources (External : 5 Internal : 12)
3. Input / Output ports (26 pins)

   Large current output: 8pins (Typ. 20mA), LED direct drive
4. Prescaler
   - Time base timer
   - Divider output function
5. Watchdog Timer
6. 16-bit timer counter: 1 ch
   - Timer, External trigger, Window, Pulse width measurement,

     Event counter, Programmable pulse generate (PPG) modes
7. 8-bit timer counter : 2 ch
   - Timer, Event counter, Programmable divider output (PDO),

     Pulse width modulation (PWM) output,

     Programmable pulse generation (PPG) modes
8. 8-bit UART : 1 ch