

# HS 300/500 Home Cinema System

## SERVICE MANUAL



**harman/kardon®**

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# harman/kardon

# Service Info

HS 300/500

23 Aug 2007

To: *All harman/kardon Service Centers*

Models: HS 300/500

Subject: Hardware changes (2 changes, mecha and main board).

Please note that a change in hardware from Sanyo optics and mecha to Hitachi optics and mecha has been carried out from the serial numbers stated below.

Model	Start serial number	End serial number	Optic / mecha	Part number
HS 300/230	WA0020-01001	WA0020-03501	HD62 - DV342 (Sanyo)	01.15.JX.DV342
	WA0020-03502	-	HOP1200W- DM3403-C (Hitachi)	01.15.JX.EDM3403
HS 500/230	WA0023-01001	WA0023-03500	HD62 - DV342 (Sanyo)	01.15.JX.DV342
	WA0023-03501	-	HOP1200W- DM3403-C (Hitachi)	01.15.JX.EDM3403

Due to the change of mecha, the main boards are also different. It is important to use the correct main board for the loader, as the servo circuit has changed on the main board.

Model	Start serial number	End serial number	Main board version	Part number
HS 300/230	WA0020-01001	WA0020-03501	Up to version 1.6	HAV06M1802C02*
	WA0020-03502	-	From version 1.7	0211HAV06M3625C023
HS 500/230	WA0023-01001	WA0023-03500	Up to version 1.6	HAV06M1802C02*
	WA0023-03501	-	From version 1.7	0211HAV06M3625C025

\* Please note that correct software according to model must be installed after change of main board

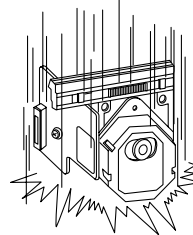
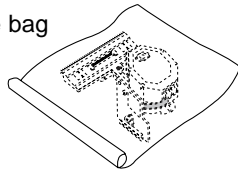
# SERVICING PRECAUTIONS

## NOTES REGARDING HANDLING OF THE PICK-UP

### 1. Notes for transport and storage

- 1) The pick-up should always be left in its conductive bag until immediately prior to use.
- 2) The pick-up should never be subjected to external pressure or impact.

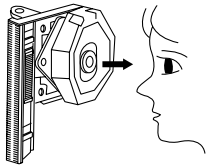
Storage in conductive bag



Drop impact

### 2. Repair notes

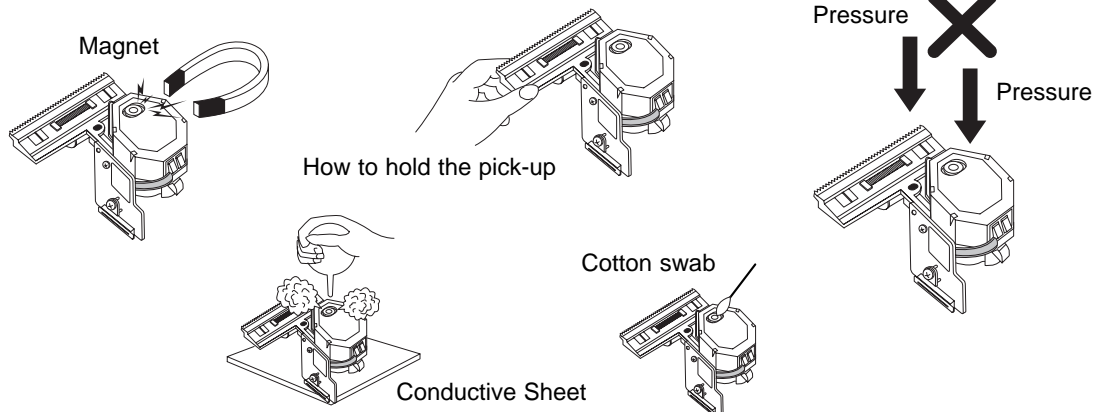
- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
- 3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
- 4) Laser beams may damage the eyes!  
 Absolutely never permit laser beams to enter the eyes!  
 Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.



NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

### 5) Cleaning the lens surface

If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



### 6) Never attempt to disassemble the pick-up.

Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

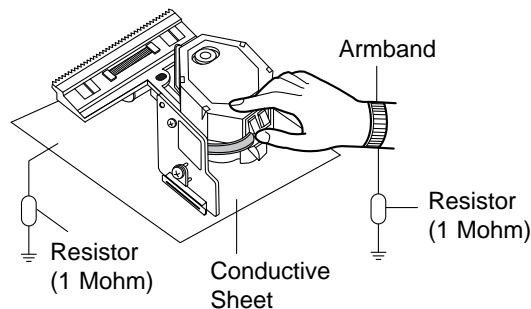
# NOTES REGARDING COMPACT DISC PLAYER REPAIRS

## 1. Preparations

- 1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.
- 2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature of humidity is high, where strong magnetism is present, or where there is excessive dust.

## 2. Notes for repair

- 1) Before replacing a component part, first disconnect the power supply lead wire from the unit
- 2) All equipment, measuring instruments and tools must be grounded.
- 3) The workbench should be covered with a conductive sheet and grounded.  
When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
- 4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
- 5) Workers should be grounded by an armband (1M $\Omega$ )
- 6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
- 7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



# ESD PRECAUTIONS

## Electrostatically Sensitive Devices (ESD)

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

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.**

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

## HS 300 Controller Specifications

### DVD player

Pickup:	Semiconductor laser, wavelength 650nm
Signal system:	NTSC / PAL
Video signal horizontal resolution:	More than 480 lines (DVD)
Video signal-to-noise ratio:	More than 60 dB (DVD)
Audio frequency response: (Stereo)	DVD (PCM): 20Hz ~ 22kHz (+/- 1.0dB) CD (PCM): 20Hz ~ 20kHz (+/- 1.0dB)
Audio signal-to-noise ratio:	More than 80 dB (PCM)
Total harmonic distortion::	Less than 0.01% (PCM)
Dynamic range:	DVD (PCM): More than 85 dB (EIAJ, 2kHz) CD: More than 85 dB (EIAJ)

### FM Tuner

System:	PLL quartz-locked digital synthesizer system
Tuning range:	87.50 ~ 108.00 MHz
Antenna terminals:	75 Ohms, unbalanced
Intermediate frequency:	10.7 MHz

### Video Outputs HDMI:

Component Video Output:	Y: 1 Vp-p/75 Ohms, sync negative polarity Cr: 0.7 Vp-p/75 Ohms Cb: 0.7 Vp-p/75 Ohms
CVBS Video:	1 Vp-p 75 Ohms
S-video:	Y: 1 Vp-p 75 Ohms C: PAL 0.3 Vp-p 75 Ohms / NTSC 0.286 Vp-p 75 Ohms

### Audio line Outputs

Audio L/R:	2 Vrms, 1 kilohms
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### General

Power requirements:	AC 230 V, 50 Hz
Max power consumption:	400 W
Idle power consumption:	Less than 2 W
Dimensions (WxHxD):	440mm x 68mm x 380mm
Weight:	7.5 kg

\* Designs and specifications are subject to change without notice.

Depth measurement includes knobs, buttons and terminal connections. Height measurement includes feet and chassis.

All features and specifications are subject to change without notice.

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Windows Media® Audio (WMA) is a proprietary file format developed by Microsoft.

DivX is a registered trademark of DivX, Inc.

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## HS 500 Controller Specifications

### DVD player

Pickup:	Semiconductor laser, wavelength 650nm
Signal system:	NTSC / PAL
Video signal horizontal resolution:	More than 480 lines (DVD)
Video signal-to-noise ratio:	More than 60 dB (DVD)
Audio frequency response: (Stereo)	DVD (PCM): 20Hz ~ 22kHz (+/- 1.0dB) CD (PCM): 20Hz ~ 20kHz (+/- 1.0dB)
Audio signal-to-noise ratio:	More than 80 dB (PCM)
Total harmonic distortion::	Less than 0.01% (PCM)
Dynamic range:	DVD (PCM): More than 85 dB (EIAJ, 2kHz) CD: More than 85 dB (EIAJ)

### FM Tuner

System:	PLL quartz-locked digital synthesizer system
Tuning range:	87.50 ~ 108.00 MHz
Antenna terminals:	75 Ohms, unbalanced
Intermediate frequency:	10.7 MHz

### Video Outputs HDMI:

Component Video Output:	Y: 1 Vp-p/75 Ohms, sync negative polarity Cr: 0.7 Vp-p/75 Ohms Cb: 0.7 Vp-p/75 Ohms
CVBS Video:	1 Vp-p 75 Ohms
S-video:	Y: 1 Vp-p 75 Ohms C: PAL 0.3 Vp-p 75 Ohms / NTSC 0.286 Vp-p 75 Ohms

### Audio line Outputs

Audio L/R:	2 Vrms, 1 kilohms
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### General

Power requirements:	AC 230 V, 50 Hz
Max power consumption:	500 W
Idle power consumption:	Less than 2 W
Dimensions (WxHxD):	440mm x 68mm x 380mm
Weight:	8,5 kg

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## Troubleshooting

If you experience any of the following difficulties while using the system, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your authorized Harman Kardon dealer.

### No power.

- Is the power cord firmly plugged into the power outlet?
- One of the safety mechanisms may be operating. In this event, unplug the player from the power outlet briefly and then plug it in again.

### No picture.

- Check that the system is connected correctly and securely.
- The video cable may be damaged. Replace it with a new one.
- Make sure the system is connected to a video input on the TV (see page 14).
- Make sure the TV is turned on.
- Make sure the correct video input on the TV is selected for viewing with this system.

### Noise (interference) appears in the picture.

- Clean the disc.
- If video from this system has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD system directly to your TV's S-Video input, if your TV is equipped with this input (see page 14).

### The aspect ratio of the screen is wrong (picture vertically expanded) when you play a wide picture even though you set "TV DISPLAY" in the SETUP menu to "16:9".

- If you connect the system with the SCART cable, connect directly to the TV. Otherwise the autoswitch function of the aspect ratio for the TV may not work.
- If the TV is not connected with a SCART cable to the HS, or if the autoswitch function does not work you should turn the TV to "16:9" (if possible with your TV).
- Depending on the TV, you may not be able to change the aspect ratio. In that case (TV not adjustable to 16:9) do not select "16:9" in the TV Display. Then, no change of the aspect ratio is needed.

### There is no sound or volume is very low.

- Check that the speakers and components are connected correctly and securely.
- Make sure that you have selected the correct source on the system.
- Press **MUTE** on the remote control, if the words MUTE ON are blinking on the front panel display.
- The protective circuitry has been activated because of a short circuit. Turn off the system, eliminate the short circuit problem and turn on the power again.
- The audio interconnect is damaged. Replace it with a new one.
- The system is in pause mode or in slow-motion play mode, or fast forward or fast reverse. Press ► to return to normal play mode.
- Check the speaker settings (see page 19).

### The left and right channels are unbalanced or reversed.

- Check that the speakers and components are connected correctly and securely.

### Severe hum or noise is heard.

- Check that the speakers and components are connected securely.
- Check that the connecting cords are away from a transformer or motor and at least 3 meters away from fluorescent light.
- Move your TV away from the audio components.
- The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.
- Clean the disc.

### The surround effect is difficult to hear when you are playing a Dolby Digital sound track.

- Check to see if the Dolby Digital mode is turned on properly, otherwise unload and load the disc again.
- Check the speaker connections.
- Depending on the DVD disc, the output signal may at times be mono or stereo even if the soundtrack is recorded in Dolby Digital format.

### The sound comes from the center speaker only.

- Depending on the disc, sound may sometimes come from the center speaker only. This also applies to mono recordings (from disc or any analog source), when Pro Logic mode is selected. This is normal.

### No sound is heard from the center speaker.

- Adjust center speaker volume (see pages 19).

### No sound or only very low volume from the rear speakers.

- Adjust the rear speaker volume (see page 19).

### The volume goes down automatically and can not be increased.

- The internal temperature is too high. Wait approximately one minute for the amplifier to reach normal working temperature.

### Radio stations cannot be tuned in.

- Check that the antenna is connected correctly. Adjust the antenna and connect an external antenna if necessary.
- The signal strength of the stations is too weak for automatic tuning. Use manual tuning.
- No stations have been preset.
- The tuner mode is not selected, select the Radio mode.

### The remote does not function.

- Remove any obstacles between the remote control and the system.
- Move the remote control closer to the system.
- Point the remote control at the remote sensor on the front panel.
- Replace all the batteries in the remote control with new ones if they are weak.
- Check that the batteries are loaded correctly.

### The disc does not play.

- There is no disc inside. ("NO DISC" appears on the front panel display and the TV screen.) Insert a disc.
- Insert the disc correctly with the playback side facing down on the disc tray.
- Clean the disc.
- The system cannot play CD-ROM's, etc. (see page 3).
- DVD with wrong region code (see page 13).

### The system starts playing the DVD automatically.

- The DVD features the auto playback function.

### Playback stops automatically.

- Some discs include an auto pause signal. When playing such a disc, the system stops playback at the signal.



## Troubleshooting

### **Track Skip or direct select with numeric buttons, Search, Slow-motion play, repeat play or Program play, etc., cannot be done.**

- Depending on the DVD or VCD, some of the above operations may not be available (Playback control).

### **Messages do not appear on the TV screen in the language you want.**

- Select the language for Display and Preferred Subtitle in the SETUP menu (see page 18). For all messages from the DVD (DVD menu, subtitles) in the proper language the disc must have the language you selected, if not, another language will be selected.

### **The audio language cannot be changed when you play a DVD.**

- Multilingual sound is not recorded on the DVD.
- Changing the language for the sound by the Audio button on the remote or the Audio line in the Player Menu is prohibited on the DVD. In that case the audio language must be selected by the main menu on the DVD.

### **The subtitle language cannot be changed when you play a DVD.**

- Multilingual subtitles are not recorded on the DVD.
- Changing the language for the subtitles by the Subtitle button on the remote or the Subtitle line in the Player Menu is prohibited on the DVD. In that case the subtitle language must be selected by the main menu on the DVD.

### **The subtitles cannot be turned off when you play a DVD.**

- Depending on the DVD, you may not be able to turn the subtitles off.

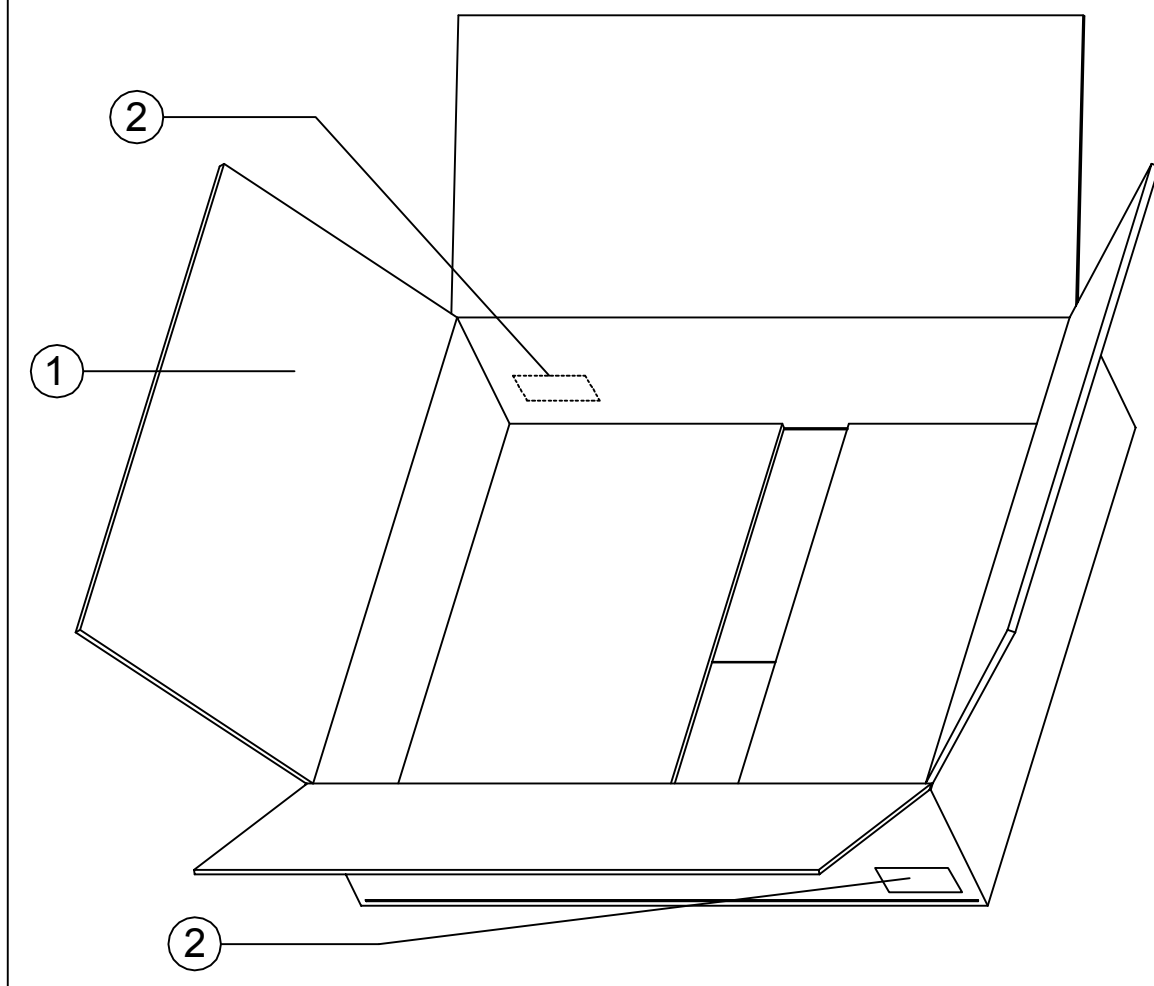
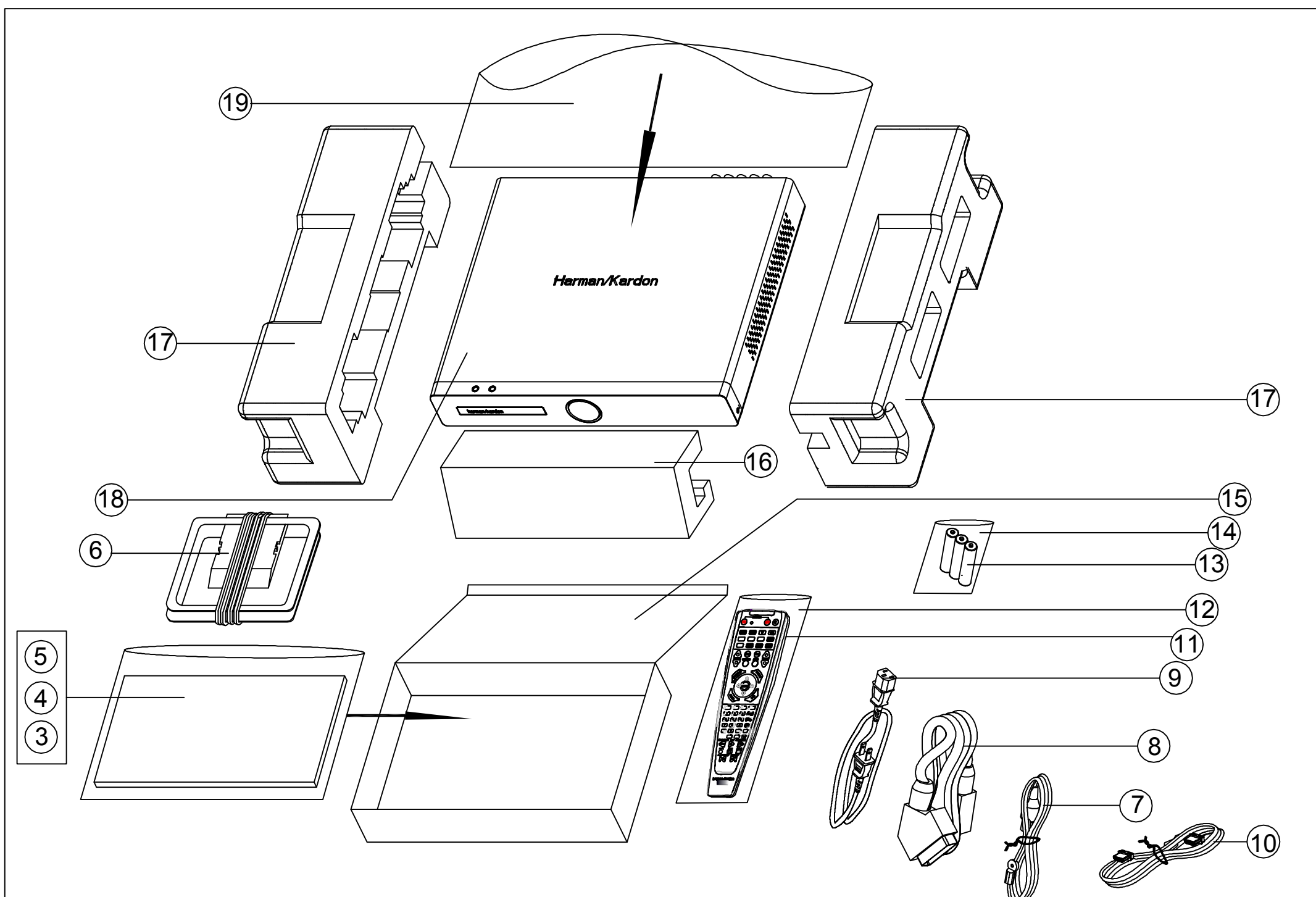
### **The angles cannot be changed when you play a DVD.**

- Multi-angles are not recorded on most DVDs.
- Change the angles when the angle mark appears on the TV screen.
- Changing the angles is prohibited on some DVDs.

### **The system does not operate properly.**

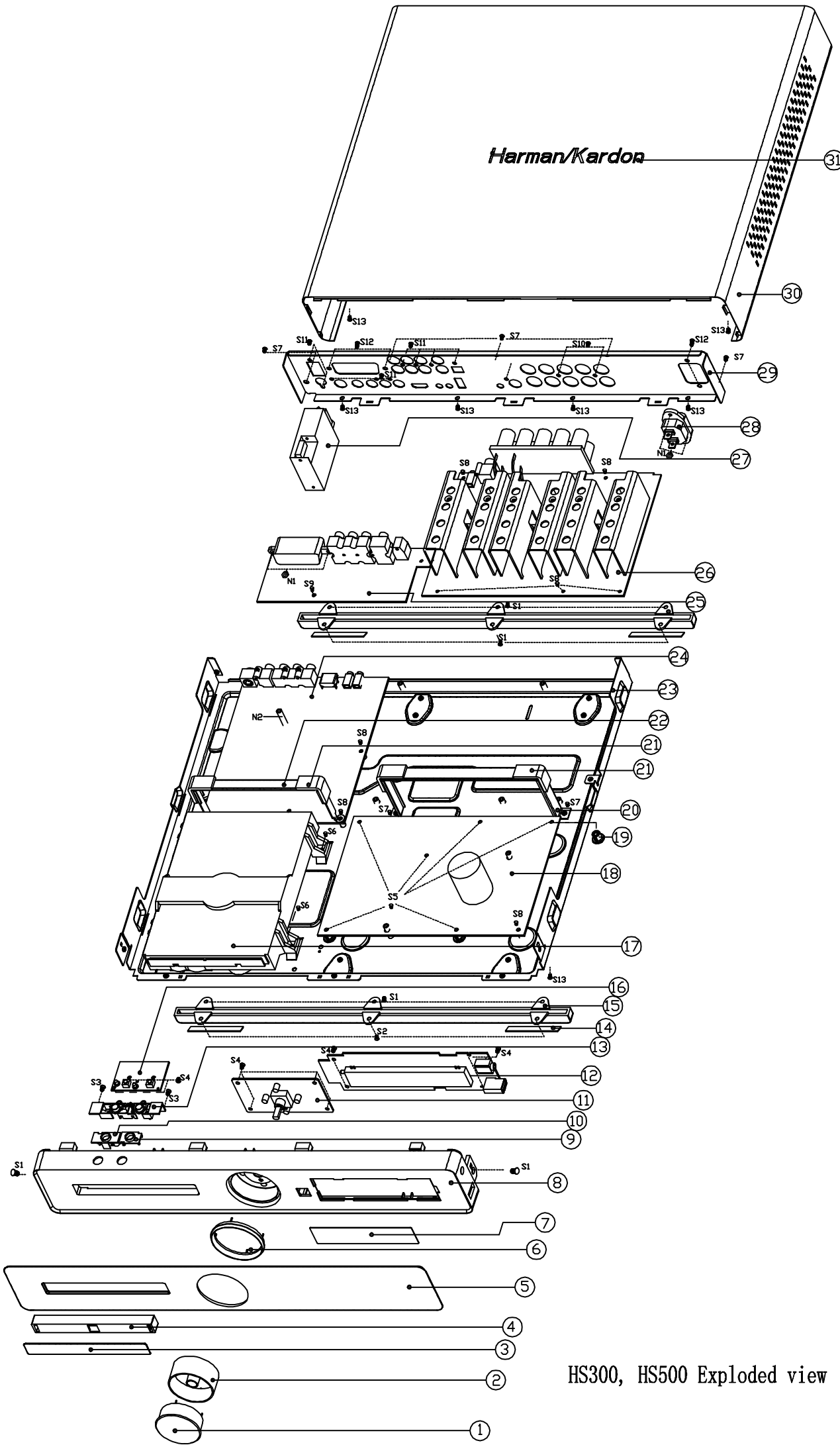
- Static electricity, etc., may affect the system's operation. Disconnect the AC power cord, then connect it again.

**Please also refer to the Troubleshooting guide contained in your loudspeaker Owners Manual.**



No	Part No.	Description	Qty.	
1	01.00.BZ.X.W.E237	Carton box HS300 EU version	1	
	01.00.BZ.X.W.E238	Carton box HS300 US version	1	
	01.00.BZ.X.W.E328	Carton box HS500 EU version	1	
	01.00.BZ.X.W.E329	Carton box HS500 US version	1	
2		Barcod label	1	
3	01.00.YS.SM1.E265	Owner manual HS300 US version	1	
	01.00.YS.SM1.E266	Owner manual HS300 EU version	1	
	01.00.YS.SM1.E356	Owner manual HS500 US version	1	
	01.00.YS.SM1.E357	Owner manual HS500 EU version	1	
4	01.00.BZ.D.Z.E020	Plastic bag for manual 25*35cm	1	
	5	01.00.YS.FY3.468	Safety instruction manual HS300 EU	1
		01.00.YS.FY3.469	Warning card HS300 US version	1
		01.00.YS.FY3.470	Guarantee card HS300 US version	1
	5	01.00.YS.FY3.529	Safety instruction manual HS500 EU	1
		01.00.YS.FY3.530	Warning card HS500 US version	1
01.00.YS.FY3.531		Guarantee card HS500 US version	1	
6	01.47.CNT.CTX.042	AM antenna AM-300-AWM	1	
7	01.47.CNT.CTX.037	FM antenna FM-075	1	
	01.47.CNT.CTX.038	FM antennab FM-TV-75-A	1	
8	01.47.CNT.LJX.5.012	SCART cabel	1	
9	01.47.CNT.ACX.E052	AC power cord EU version	1	
	01.47.CNT.ACX.E053	AC power cord US version	1	
10	CBADV-19P-19P-2M	HDMI 19P/M to HDMI 19P/M CABLE	1	
11	01.00.RC.100	Remote control HS100-RC	1	
12	01.00.BZ.D.H.E034	Plastic bag for RC 9*27.5cm	1	
13	01.14.DX.B.0007	battery 7# battery	3	
14	01.00.BZ.D.Z.E008	Plastic bag for battery 6*9cm	1	
15	01.00.BZ.X.B.E178	accessories box	1	
16		accessories Polyfoam	2	
	01.00.BZ.F.P.E100	Polyfoam HS100- left	1	
	01.00.BZ.F.P.E101	Polyfoam HS100- right	1	
18		Main unit	1	
19	01.00.BZ.D.C.E065	Plastic bag for unit 54.5*60cm	1	

HS300/500 Packing instuction



No.	P/N	Description	Qty.
1	01.00.SJ.HS100.E010	HS100 volume button	1
2	01.00.SJ.HS100.E008	HS100 volume button lampshade	1
3	01.00.SJ.HS100.E012	HS100 len for tray door	1
	01.00.SB.E035	Metal logo 47mm"Harman/kardon"	1
4	01.00.SJ.HS100.E009	HS100 disc tray door	1
5	01.00.SJ.HS300.E002	HS300 len for VFD for HS300	1
	01.00.SB.E054	Metal logo HS300 for HS300	1
	01.00.SJ.HS500.E002	HS500 len for VFD for HS500	1
	01.00.SB.E062	Metal logo HS500 for HS500	1
6	01.00.SJ.HS100.E006	HS100 volume chamfer	1
7	01.00.SJ.QT.E019	VFD filter 124.5*33.5*0.5mm	1
8	01.00.SJ.HS300.E001	HS300 front panel	1
9	01.00.SJ.HS100.E005	HS100 Open/Close button collar	1
10	01.00.SJ.HS100.E007	HS100 power indicator lampshade	1
11	02.15.HAV06K1820C01	volume Front panel board ass'y	1
12	02.15.HAV06K1819C01	VFD Front panel board ass'y	1
13	01.00.SJ.HS100.E003	HS100 2 in 1 button	1
14	01.00.DP.XJ.E192	Silica gel underlay 50.6*4.2*1.5mm	4
15	01.00.SJ.HS100.E011	HS100 pedestal underlay	2
16	02.15.HAV06K1822C01	Front panel board ass'y	1
17	01.15.JX.EDV342	Loader DV342 loader(Sanyo laser)	1
18	02.19.HAV06P1806C02	SMPS board ass'y	1
19	01.00.SJ.QT.E005	PCB plastic frame $\phi$ 7*8mm	6
20	01.00.WJ.TJ.E544	HS100-top cover support	1
21	01.00.DP.HM.E317	Soft sponge 50*12*4MM	4
22	01.00.WJ.TJ.E798	HS300-mainboard-top cover support	1
23	01.00.WJ.TJ.E583	HS300-chassis	1
24	02.11.HAV06M1802C01	Mainboard ass'y for US	1
	02.11.HAV06M1802C02	Mainboard ass'y for EU	1
25	02.14.HAV06I1804C01	Outputboard ASS'Y (US version)	1
	02.14.HAV06I1804C02	Outputboard ASS'Y (EU version)	1
26	02.17.HAV06A1805C02	Amplifier ASS'Y	1
27	01.49.E11	Tuner module TFCF1E806A (US version)	1
	01.49.E07	Tuner module TFCF1E804A (EU version)	1
28	01.40.CON.DCZ.E178	AC power socket WS-044-0	1
29	01.00.WJ.TJ.E584	HS300-rear panel (FOR HS300 EU)	1
	01.00.WJ.TJ.E585	HS300-rear panel (FOR HS300 US)	1
	01.00.WJ.TJ.E683	HS500-rear panel (FOR HS500 EU)	1
	01.00.WJ.TJ.E684	HS500-rear panel (FOR HS500 US)	1
30	01.00.WJ.TJ.E416	HS100-top cover	1
31	01.00.SB.E036	100mm"Metal logo"Harman/kardon"	1
S1	01.00.WJ.JG.E620	Screw 3*6KBTNI	11
S2	01.00.WJ.JG.E623	Screw 3*8KBTNI	3
S3	01.00.WJ.JG.E101	Screw 3*8PWAHC	2
S4	01.00.WJ.JG.E622	Screw 3*6PAHC	11
S5	01.00.WJ.JG.E621	Screw 3*13PWTTC	6
S6	01.00.WJ.JG.E619	Screw 3*8PWBTTTC	4
S7	01.00.WJ.JG.E629	Screw 3*6PWBTTNI W=7	7
S8	01.00.WJ.JG.E631	Screw 3*6PVMHC W=7	9
	01.00.WJ.JG.E144	Screw 3*8PMHC	2
S9	01.00.WJ.JG.E713	Screw 3*6PMHNI	1
s10	01.00.WJ.JG.E627	Screw 3*10PAHO	2
S11	01.00.WJ.JG.E626	Screw 3*8PAHO	9
S12	01.00.WJ.JG.E632	Screw 3*10PMHO for us version	4
	01.00.WJ.JG.E632	Screw 3*10PMHO for EU version	2
S13	01.00.WJ.JG.E628	Screw 3*4RBTNI	8
N1	01.00.WJ.JG.E633	Nut M3 for us version	4
	01.00.WJ.JG.E633	Nut M3 for EU version	2
N2	01.00.WJ.JG.E547	hexagonal screw/Nut M3*20.5	1

<b>HS300(B ) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.WJ.TJ.E583	HS300 metals part	HS300-chassis	1	HS300-PT01	
01.00.WJ.TJ.E416	HS100 metals part	HS100-top cover	1	HS100-PT02	
01.00.WJ.TJ.E584	HS300 metals part	HS300-rear panel(EU)	1	HS300-PT03	EU version
01.00.WJ.TJ.E585	HS300 metals part	HS300-rear panel(US)	1	HS300-PT03	US version
01.00.WJ.TJ.E544	HS100 metals part	HS100-top cover support	1	HS100-PT04	
01.00.WJ.TJ.E798	HS300 metals part	HS300-mainboard-top cover support	1	HS300-PT05	
01.00.WJ.TJ.E586	Heatsink	95*62*44.5MM	3	For U403 U404 U405 on amplifier	
01.00.WJ.TJ.E542	Heatsink	16*12*26MM	1	Match SQR6(BA033BCO DIP) on SMPS	Hole above PCB 18mm
01.00.WJ.TJ.E325	Heatsink	12*16*35MM	1	Match SQR5(FSDM07652R DIP) on SMPS	Hole above PCB 16mm
01.00.WJ.TJ.E730	Heatsink	16*12*46MM	1	Match SQR4(FYPF2010DN DIP) on SMPS	Hole above PCB 18mm
01.00.WJ.TJ.E673	Heatsink	41.5*13*46MM(152-DEV)	1	Match SQR3(D10XB60 DIP) on SMPS	
01.00.WJ.TJ.E674	Heatsink	50*19*46MM	1	Match SQR1(FFPF30U20STU DIP) on SMPS	
01.00.WJ.TJ.E675	Heatsink	141*18*46MM	1	Match SQR2(IRFP460C DIP ISL9R1560PF2 DIP) on SMPS	
01.00.WJ.TJ.E676	Heatsink	18*7*46MM(MF0948)	1	Match SQR7(FYPF2010DN DIP KA278R05 DIP) on SMPS	
01.00.WJ.TJ.E268	Heatsink	28*28*10mm	1	Mor U4 on mainboard	
01.13.L.H.E018	Magnetism annulus	F5BRH 25.9*29*12.7mm	1		Important to EMI test
01.13.L.H.E020	Magnetism annulus	M248	1		Important to EMI test
01.00.WJ.JG.E547	hexagonal screw	M3*20.5	1	For outputboard holding on mainboard	
0100SJHS300E001	HS300 plastic part	HS300□front panel	1	HS300-RE01	
0100SJHS100E003	HS100 plastic part	HS100□2 in 1 button	1	HS100-RE03	
0100SJHS100E005	HS100 plastic part	HS100□Open/Close button collar	1	HS100-RE05	
0100SJHS100E006	HS100 plastic part	HS100□volume chamfer	1	HS100-RE06	

HS300(B ) Component List					
P/N	Description	Specification	Qty	Location.No.	Note
0100SJHS100E007	HS100 plastic part	HS100□power indicator lampshade	1	HS100-RE07	Transparent ABS + astigmatism liquide
0100SJHS100E008	HS100 plastic part	HS100□volume button lampshade	1	HS100-RE08	Transparent ABS + astigmatism liquide
0100SJHS100E009	HS100 plastic part	HS100□disc tray door	1	HS100-RE09	Light black
0100SJHS100E010	HS100 plastic part	HS100□volume button	1	HS100-RE10	
0100SJHS100E011	HS100 plastic part	HS100□pedestal underlay	2	HS100-RE11	Transparen PC
0100SJHS100E012	HS100 plastic part	HS100□len for tray door□2mm width□	1	HS100-RE12	
0100SJHS300E002	HS300 plastic part	HS300-len for VFD□3mm width□	1	HS300-RE02	
0100SJ1000AE016	HS300 plastic part	1000A-IR receiver support 5.5mm	1		
01.00.SJ.QT.E005	PCB plastic frame	Φ7*8mm	6		
01.00.FZ.QT.153	Astigmatism PVC	Φ45.5*Φ9.5mm	1	Between volume button and PCB	
01.00.SJ.QT.E019	VFD filter	124.5*33.5*0.5mm	1		
01.40.CON.DCZ.E178	AC power socket	WS-044-0	1		
01.00.SB.E035	Metal logo	47mm"Harmarn" supper slim logo	1	Stick on the len for tray door	
01.00.SB.E036	Metal logo	100mm"Harmarn" supper slim logo	1	Stick on the top cover	
01.00.SB.E054	Metal logo	HS300 supper slim logo	1		
01.00.YS.SM1.E265	Owner manual	HS300 US version	1		
01.00.YS.SM1.E266	Owner manual	HS300 EU version	1		
01.00.YS.TZ.T.E068	Laser label	Laser precausion mark	1	Stick on the top of tray	
01.00.YS.TZ.T.E057	Laser label	Laser precausion guide	1	Stick on the top of tray	
01.00.YS.FY3.E468	Safety instruction manual	HS300-EU version	1		
01.00.YS.FY3.E469	Warning card	HS300-US version	1		
01.00.YS.FY3.E470	Guarantee card	HS300-US version	1		
01.00.BZ.B.E021	MADE IN P.R.C. label	23*7MM transparent PET(sigle side glue)	1	Stick on the rear panel with EU version	EU version
01.00.RC.EHS300	Remote control	HS300-RC	1		
01.14.DX.B.E0007G	Alkalescent battery	GP7#	3		

<b>HS300(B ) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.47.CNT.ACX.E052	AC power cord	WS-002E+WS-019 HO5VV-F 0.75×2C BK 2M	1		EU version
01.47.CNT.ACX.E053	AC power cord	WS-002E+WS-004A SJT18AWG×2C BK 2M	1		US version
0147CNTLJX5E012	SCART cable	SCART	1		1.5M(EU version)
0147CNTLJX5E119	Grounding cable	70MM(with 42 bundles inside)	1	Connect 1820C to the ground under loader support	Solder one and grounding M4 another end
0147CNTLJX5E032	Grounding cable	200mm(with 42 bundles inside)	1	Connect headphone on 1819C to ground fastened on SMPS	Solder one and grounding M4 another end
0147CNTLJX5E141	Grounding cable	195mm(with 42 bundles inside)	1	Connect USB on 1819c to ground fastened on SMPS	Solder one and grounding M4 another end
01.47.CNT.CTX.E016	FM antenna	FM-TV-22	1		EU version
01.47.CNT.CTX.E037	FM antenna	FM-075	1		US version
01.47.CNT.CTX.E042	AM antenna	AM-300-AWM	1		US version
01.15.JX.EDM3403	Loader	DM3403-C(HOP-1200W) loader (HITACHI laser)	1		
01.49.E11	Tuner module	TFCF1E806A	1		EU version
01.49.E07	Tuner module	TFCF1E804A	1		US version
01.00.WJ.JG.E619	Screw	3*8PWBTTTC (without plumbum)	15	For SQR2 (3) SQR1(2) on SMPS,heatsink and amplifier (6),loader and chassis(4)	
01.00.WJ.JG.E620	Screw	3*6KBTTNI (without plumbum)	11	For front panel and chassis(2),chassis and pedestal underlay(9)	
01.00.WJ.JG.E621	Screw	3*13PWTTC (without plumbum)	6	For SMPS and chassis	
01.00.WJ.JG.E622	Screw	3*6PAHC (without plumbum)	11	For 2 in 1 button and open/close button collar(3),1819C and front panel(4),1820C and front panel(4)	
01.00.WJ.JG.E623	Screw	3*8KBTTNI (without plumbum)	3	For front panel and chassis,pedestal underlay	

<b>HS300(B ) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.WJ.JG.E101	Screw	3*8PWAHC W=7.4(without plumbum)	2	For open/close buton collar and front panel(2)	
01.00.WJ.JG.E625	Screw	3*8PBTTTC (without plumbum)	12	For IC and heatsink on SMPS(12)	
01.00.WJ.JG.E626	Screw	3*8PAHO (without plumbum)	9	For output port(7),tuner module(2)	
01.00.WJ.JG.E626	Screw	3*8PAHO (without plumbum)	2	For output port(2)	US version
01.00.WJ.JG.E627	Screw	3*10PAHO (without plumbum)	2	For output port on amplifier(2)	
01.00.WJ.JG.E628	Screw	3*4RBTTNI (without plumbum)	8	For rear panel and chassis(4),top cover and chassis(4)	
01.00.WJ.JG.E629	Screw	3*6PWBTTNI W=7 (without plumbum)	7	For top cover and chassis with rear panel(5),top cover support and chassis(2)	
01.00.WJ.JG.E630	Screw	3*10PBTTTC (without plumbum)	1	For MOS and heatsink on SMPS	
01.00.WJ.JG.E631	Screw	3*6PWMHC W=7 (without plumbum)	9	For mainboard and chassis(2),SMPS and chassis(1),amplifier and chssis(5),ESD grounding(1)	
01.00.WJ.JG.E144	Screw	3*8PMHC	2	For mainboard with mainboard-top cover support and chassis(2)	
01.00.WJ.JG.E713	Screw	3*6PMHNI	1	For mainboard and outputboard(1)	
01.00.WJ.JG.E632	Screw	3*10PMHO (without plumbum)	3	For IC and SQR7 on SMPS(1),and AC power socket(2)	
01.00.WJ.JG.E632	Screw	3*10PMHO (without plumbum)	2	For SCART output port	EU version
01.00.WJ.JG.E633	Nut	M3 (without plumbum)	2	For SCART output port	EU version
01.00.WJ.JG.E633	Nut	M3 (without plumbum)	3	For IC and SQR7 on SMPS(1),and AC power socket(2)	
01.00.WJ.JG.E634	Spring pad	M3 (without plumbum)	6	For heatsink and amplifier(6)	

<b>HS300(B ) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.WJ.JG.E635	Flat pad	M3*0.5 W=8 (without plumbum)	6	For heatsink and amplifier□6□	
01.00.BZ.X.W.E237	Carton box	HS300(US version)	1	For unit and accessories	US version
01.00.BZ.X.W.E238	Carton box	HS300(EU version)	1	For unit and accessories	EU version
01.00.BZ.X.W.E239	Big color carton box	HS300(EU version)	1	According to client,for external box and loudspeaker	EU version
01.00.BZ.X.W.E240	Big color carton box	HS300(US version)	1	According to client, for external box and loudspeaker	US version
01.00.BZ.X.B.E286	Accessories box	HS100 380*245*45mm(V1.0)	1	For accessories	EU version
01.00.BZ.X.B.E763	Accessories color box	HS300(US version)	1	For accessories	US version
01.00.BZ.F.P.E116	Polyfoam	HS300-left	1		
01.00.BZ.F.P.E117	Polyfoam	HS300-right	1		
01.00.BZ.F.P.E452	Polyfoam	HS100-front panel	2		
01.00.BZ.D.H.E053	Plastic bag for unit	54.5*60cm	1	For unit	
01.00.BZ.D.Z.E020	Plastic bag for user's manual	25*35cm	1	For owner manual	
01.00.BZ.D.Z.E034	Plastic bag for remote control	9*27.5CM	1	For remote control	
01.00.BZ.D.Z.E008	Plastic bag for battery	6*9cm	1	For battery	
01.00.BZ.D.H.E002	Plastic bag	11*28cm	1	For AC power cord	
01.00.FZ.QT.E187	Mask PVC	Φ38.5 (bottom with glue)black PVC	1	Stick inside the volume button	
0147CNTLJX7E026	Connect cable	2.0-5Y-5Y-260mm-B(UL20080 28AWG)	1	Connect loader and CN1 on mainboard	
0147CNTLJX7E125	Connect cable	2.0-6Y-6Y-350mm-B(UL20080 28AWG)	1	Connect loader and CN2 on mainboard	
0147CNTLJX7E357	Connect cable	2.0-7Y-7Y-220MM -A	1	Connect CN606 on 1819C and CN607 on 1822C	
0147CNTLJX7E539	Connect cable	2.54-2.0-6Y-330mm-B	1	Connect CN503 on SMPS and CN602 on 1819C □B□	



HS300(B ) Component List					
P/N	Description	Specification	Qty	Location.No.	Note
0147CNTLJX7E358	Connect cable	2.54-2.0-4Y-210mm-A	1	Connect CN508 on SMPS and CN14 on mainboard□M□	
0147CNTLJX7E054	Connect cable	2.0-10Y-10Y-70mm-A	1	Connect CN9 on mainboard □L□ and CN303 on output board□L□	
0147CNTLJX7E312	Connect cable	2.54-2.0-13Y-120mm-B	1	Connect CN509 on SMPS and CN5 on mainboard (K)	
0147CNTLJX7E180	Connect cable	2.54-2.0-5Y-80mm-B	1	Connect CN505 on SMPS and CN402 on amplifier (I)	
0147CNTLJX7E420	Connect cable	VH-3Y-2Y-2Y-610mm-A(with magnetism annulus)	1	Connect CN506 on SMPS and CN403 on amplifier□J□	cable wrap magnetism annulus in one circuit,and the length from magnetism annulus to another end is 120mm□one cable length 610mm□another 300mm□
0147CNTLJX7E401	Connect cable	VH-3Y-2Y-330mm-B(with magnetism annulus)	1	Connect power socket and SMPS	140mm from magnetism annulus to another solder end
0147CNTLJX7E361	Connect cable	2.0-4Y-4Y-580MM-A□with shield□	1	Connect CN605 on 1819C(F) and CN304 on outputboard□F□	
0147CNTLJX7E402	Connect cable	2.0-5Y-5Y-480MM-A□red,black,white,black shield,green□	1	Connect CN603 on 1819C (H□and CN6 on mainboard□H□(with shield □order on mainboard from fist pin:red,black,white,black shield,green)	
0147CNTLJX7E052	Connect cable	2.0-9Y-9Y-70mm-A	1	Connect CN609 on 1820C (E) and CN611 on 1819C (E)	
0147CNTLJX7E163	HDMI cable	CBADV-19P-19P-2M(black,φ5.5 ,30AWG)	1		
01.48.BPX.1.E109	Flat cable	1.0*20P*60mmA	1	Connect CN11 on mainboard (O) and CN302 on mainboard□O□	
01.48.BPX.1.E108	Flat cable	1.0*14P*60mmA	1	Connect CN13 on mainboard (N) and CN301on outputboard (N)	

HS300(B ) Component List					
P/N	Description	Specification	Qty	Location.No.	Note
01.48.BPX.1.E107	Flat cable	1.25*18P*380mmA	1	Connect CN601 on 1819C (A) and CN4 on mainboard (A)	
01.48.BPX.1.E103	Flat cable	1.0*16P*70mmA	1	Connect CN7 on mainboard (C) and CN401 on amplifier (C)	
01.48.BPX.1.E085	Flat cable	1.25*11P*70mmA	1	Connect tuner module and CN12 on mainboard	
01.48.BPX.2.E159	Flat cable	0.5*24P*290mmA	1	Connect loader and CN3 on mainboard	
01.00.DP.XJ.E192	Silica gel underlay	50.6*4.2*1.5mm(sigle side with 500# white glue)	4	HS100-H01	For underlay
01.00.DP.XJ.E199	Silica gel underlay	21*16*1.0mm (φ3.0)black	1	Match D504(ISL9R1560PF2 DIP) on SMPS	
01.00.DP.HM.E199	Sponge	20*20*7MM(with double side glue)	3	For VFD (2),flat cable attached to volumeboard(1)	
01.00.DP.JY.E158	Insulated PVC	150*152*0.5mm	1	Place between SMPS and chassis	
01.00.DP.JY.E149	Insulated PVC	80*55*0.5MM □transparence PVC with sigle side glue□	1	Stick on the top cover support	
01.00.DP.JY.E173	Insulated PVC	150*160*0.5mm( with sigle side glue)	1	Stick under the top cover above SMPS	
01.00.DP.JY.E174	Insulated PVC	38*55*0.5mm( with sigle side glue)	1	Stick under output board above mainboard	
01.00.DP.JY.E124	Insulated particle	TO-220	1	For D504(ISL9R1560PF2 DIP) on SMPS	
01.00.DP.HM.E290	Sponge	20*20*8mm(with sigle side glue)	4	Place under big transfer and heatsink on SMPS	
01.00.DP.HM.E316	Sponge	20*20*6MM(with sigle side glue□	1	Place under transfer on SMPS	
01.00.DP.HM.E317	Soft sponge	50*12*4MM(with sigle side glue□	4	Stick on top cover support(2),mainboard-top cover support on mainboard(2)	
01.00.DP.HM.E312	Sponge	125*20*2MM(with sigle side glue□	1	Stick on chassis for flat cable of loader	

<b>HS300(B ) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.DP.HM.E313	Sponge	65*20*2MM(with sigle side glue)	1	Stick on chassis for flat cable of loader	
01.00.DP.HM.E314	Sponge	30*15*4MM(with sigle side glue)	1	For magnetism annulus of AC power cord	
01.00.DP.HM.E289	Sponge	10*10*6MM(with double side glue)	1	For IR receiver	
01.00.DP.HM.E263	Sponge	20*10*8MM(with double side glue)	1	Place flank between tuner module and chassis	
01.00.DP.HM.E160	Sponge	20*10*4.5mm(with sigle side glue)	3	Place between amplifer and heatsink	
01.00.DP.HM.E117	Sponge	20*10*5MM(with double side glue)	1	Place between 1820C and Flat cable	3M9448
01.00.FZ.QT.E122	Plastic fastener	12CM	4		
01.00.FZ.QT.E216	Plastic fastener	20CM	2		
01.00.DP.QT.E001	Sil-pad	sil-pad 400-2820	3	For Q501 Q503 Q504 on SMPS	
01.00.DP.JY.E112	Diathermanous Selenium Rubber	16*11*1mm	3	Place on U403 U404 U405 on amplifier	
01.00.DD.PM.E092	Sponge with electric material	10*9*10mm	3	Place under amplifier	
01.00.DD.PM.E166	Sponge with electric material	110*10*8mm	1	Place on top cover support	
01.00.DD.QT.E152	Electric cloth	20*10MM □ sigle side □	1	Stick between s-video out side and rear panel	
0211HAV06M3625C01	Mainboard(semi-manufactured goods)	HAV06M-3625C01(US Version +HITACHI laser)	1	Four layers board	
0211HAV06M3625C02	Mainboard(semi-manufactured goods)	HAV06M-3625C02(EU Version +HITACHI laser)	1	Four layers board	
0214HAV06I1804C01	Outputboard(semi-manufactured goods)	HAV06I-1804C01(US version)	1	Two layers board	
0214HAV06I1804C02	Outputboard(semi-manufactured goods)	HAV06I-1804C02(EU version)	1	Two layers board	
0217HAV06A1805C02	Amplifier(semi-manufactured goods)	HAV06A-1805C02	1	Two layers board	
0219HAV06P1806C02	SMPS(semi-manufactured goods)	HAV06P-1806C02	1	Two layers board	

<b>HS300(B ) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
0215HAV06K1819C01	Front panel board(semi-manufactured goods)	HAV06K-1819C01	1	Two layers board	
0215HAV06K1820C01	Front panel board(semi-manufactured goods)	HAV06K-1820C01	1	Two layers board	
0215HAV06K1822C01	Front panel board(semi-manufactured goods)	HAV06K-1822C01	1	Two layers board	
<b>HS500(B) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.WJ.TJ.E583	HS300 metals part	HS300-chassis	1	HS300-PT01	
01.00.WJ.TJ.E416	HS100 metals part	HS100-top cover	1	HS100-PT02	
01.00.WJ.TJ.E683	HS500 metals part	HS500-rear panel(EU))	1	HS500-PT03	EU version
01.00.WJ.TJ.E684	HS500 metals part	HS500-rear panel(US)	1	HS500-PT03	US version
01.00.WJ.TJ.E544	HS100 metals part	HS100-top cover support	1	HS100-PT04	
01.00.WJ.TJ.E798	HS300 metals part	HS300-mainboard-top cover support	1	HS300-PT05	
01.00.WJ.TJ.E586	Heatsink	95*62*44.5MM	3	for U403 U404 U405 on amplifier	
01.00.WJ.TJ.E542	Heatsink	16*12*26MM	1	match SQR6(BA033BCO DIP) on SMPS	Hole above PCB 18mm
01.00.WJ.TJ.E325	Heatsink	12*16*35MM	1	match SQR5(FSDM07652R DIP) on SMPS	Hole above PCB 16mm
01.00.WJ.TJ.E730	Heatsink	16*12*46MM	1	match SQR4(FYPF2010DN DIP) on SMPS	Hole above PCB 18mm
01.00.WJ.TJ.E673	Heatsink	41.5*13*46MM(152-DEV)	1	match SQR3(D10XB60 DIP) on SMPS	
01.00.WJ.TJ.E674	Heatsink	50*19*46MM	1	match SQR1(FFPF30U20STU DIP) on SMPS	
01.00.WJ.TJ.E675	Heatsink	141*18*46MM	1	match SQR2(IRFP460C DIP ISL9R1560PF2 DIP) on SMPS	
01.00.WJ.TJ.E676	Heatsink	18*7*46MM(MF0948)	1	match SQR7(FYPF2010DN DIP KA278R05 DIP) on SMPS	
01.00.WJ.TJ.E268	Heatsink	28*28*10mm	1	for U4 on mainboard	

<b>HS500(B) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.WJ.TJ.E822	Heatsink	39*54.5*41mm	3	for amplifier	
01.13.L.H.E018	Magnetism annulus	F5BRH 25.9*29*12.7mm	1		Important to EMI test
01.13.L.H.E020	Magnetism annulus	M248	1		Important to EMI test
01.00.WJ.JG.E547	hexagonal screw	M3*20.5	1	for outputboard holding on mainboard	
0100SJHS500E001	HS500 plastic part	HS500□front panel	1	HS300-RE01,LOGO different from HS300	
0100SJHS100E003	HS100 plastic part	HS100□2 in 1 button	1	HS100-RE03	
0100SJHS100E005	HS101 plastic part	HS100□Open/Close button collar	1	HS100-RE05	
0100SJHS100E006	HS102 plastic part	HS100□volume chamfer	1	HS100-RE06	
0100SJHS100E007	HS103 plastic part	HS100□power indicator lampshade	1	HS100-RE07	Transparent ABS + astigmatism liquide
0100SJHS100E008	HS104 plastic part	HS100□volume button lampshade	1	HS100-RE08	Transparent ABS + astigmatism liquide
0100SJHS100E009	HS105 plastic part	HS100□disc tray door	1	HS100-RE09	Light black
0100SJHS100E010	HS106 plastic part	HS100□volume button	1	HS100-RE10	
0100SJHS100E011	HS107 plastic part	HS100□pedestal underlay	2	HS100-RE11	Transparen PC
0100SJHS100E012	HS108 plastic part	HS100□len for tray door□2mm width□	1	HS100-RE12	
0100SJHS500E002	HS500 plastic part	HS500-len for VFD□3mm width□	1	HS500-RE02	
0100SJ1000AE016	HS300 plastic part	1000A-IR receiver support 5.5mm	1		
01.00.SJ.QT.E005	PCB plastic frame	Φ7*8mm	6		
01.00.FZ.QT.153	Astigmatism PVC	Φ45.5*Φ9.5mm	1	Between volume button and PCB	
01.00.SJ.QT.E019	VFD filter	124.5*33.5*0.5mm	1		
01.40.CON.DCZ.E178	AC power socket	WS-044-0	1		
01.00.SB.E035	Metal logo	47mm"Harmarn" supper slim logo	1	Stick on the len for tray door	
01.00.SB.E036	Metal logo	100mm"Harmarn" supper slim logo	1	Stick on the top cover	
01.00.SB.E062	Metal logo	HS500 supper slim logo	1	Stick on the len of VFD	
01.00.YS.SM1.E356	Owner manual	HS500 US version	1		US version

<b>HS500(B) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.YS.SM1.E357	Owner manual	HS500 EU version	1		EU version
01.00.YS.TZ.T.E068	Laser label	Laser precaution mark	1	Stick on the top of tray	
01.00.YS.TZ.T.E057	Laser label	Laser precaution guide	1	Stick on the top of tray	
01.00.YS.FY3.E529	Safety instruction manual	HS500-EU version	1		EU version
01.00.YS.FY3.E530	Warning card	HS500-US version	1		US version
01.00.YS.FY3.E531	Guarantee card	HS500-US version	1		US version
01.00.BZ.B.E021	MADE IN P.R.C. label	23*7MM transparent PET(single side glue)	1	Stick on the rear panel with EU version	EU version
01.00.RC.EHS500	Remote control	HS500-RC	1		
01.14.DX.B.E0007G	Alkaline battery	GP7#	3		
01.47.CNT.ACX.E052	AC power cord	WS-002E+WS-019 HO5VV-F 0.75*2C BK 2M	1		EU version
01.47.CNT.ACX.E053	AC power cord	WS-002E+WS-004A SJT18AWG*2C BK 2M	1		US version
0147CNTLJX5E012	SCART cable	SCART	1		1.5mm(EU version)
01.47.CNT.CTX.E016	FM antenna	FM-TV-22	1		EU version
01.47.CNT.CTX.E037	FM antenna	FM-075	1		US version
01.47.CNT.CTX.E042	FM antenna	AM-300-AWM	1		US version
01.15.JX.EDM3403	Loader	DM3403-C(HOP-1200W) loader (HITACHI laser)	1		
01.49.E11	Tuner module	TFCF1E806A	1		EU version
01.49.E07	Tuner module	TFCF1E804A	1		US version
01.00.WJ.JG.E619	Screw	3*8PWBTTTC (without plumbum)	15	For SQR2 (3) SQR1(2) on SMPS, heatsink and amplifier (6),loader and chassis(4)	
01.00.WJ.JG.E620	Screw	3*6KBTTNI (without plumbum)	11	For front panel and chassis(2),chassis and pedestal underlay(9)	
01.00.WJ.JG.E621	Screw	3*13PWTTC (without plumbum)	6	For SMPS and chassis	

<b>HS500(B) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.WJ.JG.E622	Screw	3*6PAHC (without plumbum)	11	For 2 in 1 button and open/close button collar(3),1819C and front panel(4),1820C and front panel(4)	
01.00.WJ.JG.E623	Screw	3*8KBTTNI (without plumbum)	3	For front panel and chassis,pedestal underlay	
01.00.WJ.JG.E101	Screw	3*8PWAHC W=7.4(without plumbum)	2	For open/close buton collar and front panel(2)	
01.00.WJ.JG.E625	Screw	3*8PBTTTC (without plumbum)	18	For IC and heatsink on SMPS(12,two kinds of heatsinks□6□	
01.00.WJ.JG.E626	Screw	3*8PAHO (without plumbum)	10	For output port(8)□tuner module(2)	
01.00.WJ.JG.E626	Screw	3*8PAHO (without plumbum)	2	For output port(2)	US version
01.00.WJ.JG.E627	Screw	3*10PAHO (without plumbum)	2	For output port on amplifier(2)	
01.00.WJ.JG.E628	Screw	3*4RBTTNI (without plumbum)	8	For rear panel and chassis(4),top cover and chassis(4)	
01.00.WJ.JG.E629	Screw	3*6PWBTTNI W=7 (without plumbum)	7	For top cover and chassis with rear panel(5),top cover support and chassis(2)	
01.00.WJ.JG.E630	Screw	3*10PBTTTC (without plumbum)	1	For MOS and heatsink on SMPS	
01.00.WJ.JG.E631	Screw	3*6PWMHC W=7 (without plumbum)	9	For mainboard and chassis(2),SMPS and chassis(1),amplifier and chssis(5),ESD grounding(1)	
01.00.WJ.JG.E144	Screw	3*8PMHC	2	For mainboard with mainboard-top cover support and chassis(2)	
01.00.WJ.JG.E713	Screw	3*6PMHNI	1	For mainboard and outputboard(1)	
01.00.WJ.JG.E632	Screw	3*10PMHO (without plumbum)	3	For IC and SQR7 on SMPS(1),and AC power socket(2)	

<b>HS500(B) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.WJ.JG.E632	Screw	3*10PMHO (without plumbum)	2	For SCART output port	EU version
01.00.WJ.JG.E633	Nut	M3 (without plumbum)	2	For SCART output port	EU version
01.00.WJ.JG.E633	Nut	M3 (without plumbum)	3	For IC and SQR7 on SMPS(1),and AC power socket(2)	
01.00.WJ.JG.E634	Spring pad	M3 (without plumbum)	12	For heatsink and amplifier(6),two kinds of heatsink□6□	
01.00.WJ.JG.E635	Flat pad	M3*0.5 W=8 □□	12	For heatsink and amplifier□6□,two kinds of heatsink□6□	
01.00.BZ.X.W.E328	Carton box	HS500(US version)	1	For unit and accessories	US version
01.00.BZ.X.W.E329	Carton box	HS500(EU version)	1	For unit and accessories	EU version
01.00.BZ.X.W.E381	Big color carton box	HS500(EU version)	1	According to client, for external box and loudspeaker	EU version
01.00.BZ.X.W.E382	Big color carton box	HS500(US version)	1	According to client, for external box and loudspeaker	US version
01.00.BZ.X.B.E286	Accessories box	HS100 380*245*45mm(V1.0)	1	For accessories	EU version
01.00.BZ.X.B.E764	Accessories color box	HS300(US version)	1	For accessories	US version
01.00.BZ.F.P.E116	Polyfoam	HS300-left	1		
01.00.BZ.F.P.E117	Polyfoam	HS300-right	1		
01.00.BZ.F.P.E452	Polyfoam	HS100-front panel	2		
01.00.BZ.D.H.E053	Plastic bag for unit	54.5*60cm	1	For unit	
01.00.BZ.D.Z.E020	Plastic bag for user's manual	25*35cm	1	For owner manual	
01.00.BZ.D.Z.E034	Plastic bag for remote control	9*27.5CM	1	For remote control	
01.00.BZ.D.Z.E008	Plastic bag for battery	6*9cm	1	For battery	
01.00.BZ.D.H.E002	Plastic bag	11*28cm	1	For AC power cord	
01.00.FZ.QT.E187	Mask PVC	Φ38.5 (bottom with glue)black PVC	1	Stick inside the volume button	



<b>HS500(B) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
0147CNTLJX7E026	Connect cable	2.0-5Y-5Y-260mm-B(UL20080 28AWG)	1	Connect loader and CN1 on mainboard	
0147CNTLJX7E125	Connect cable	2.0-6Y-6Y-350mm-B(UL20080 28AWG)	1	Connect loader and CN2 on mainboard	
0147CNTLJX7E357	Connect cable	2.0-7Y-7Y-220MM -A	1	Connect CN606 on 1819C and CN607 on 1822C	
0147CNTLJX7E539	Connect cable	2.54-2.0-6Y-330mm-B	1	Connect CN503 on SMPS and CN602 on 1819C □B□	
0147CNTLJX7E358	Connect cable	2.54-2.0-4Y-210mm-A	1	Connect CN508 on SMPS and CN14 on mainboard□M□	
0147CNTLJX7E054	Connect cable	2.0-10Y-10Y-70mm-A	1	Connect CN9 on mainboard □L□ and CN303 on output board□L□	
0147CNTLJX7E312	Connect cable	2.54-2.0-13Y-120mm-B	1	Connect CN509 on SMPS and CN5 on mainboard (K)	
0147CNTLJX7E180	Connect cable	2.54-2.0-5Y-80mm-B	1	Connect CN505 on SMPS and CN402 on amplifier (I)	
0147CNTLJX7E400	Connect cable	VH-4Y-4Y-4Y-610mm-A(with magnetism annulus)	1	Connect CN506 on SMPS and CN403 on amplifier□J□	cable wrap magnetism annulus in one circuit,and the length from magnetism annulus to another end is 120mm□one cable length 610mm□another 300mm□
0147CNTLJX7E401	Connect cable	VH-3Y-2Y-330mm-B(with magnetism annulus)	1	Connect power socket and SMPS	140mm from magnetism annulus to another solder end
0147CNTLJX7E361	Connect cable	2.0-4Y-4Y-580MM-A□with shield□	1	Connect CN605 on 1819C(F) and CN304 on outputboard□F□	
0147CNTLJX7E402	Connect cable	2.0-5Y-5Y-480MM-A□red,black,white,black shield,green□	1	Connect CN603 on 1819C (H□and CN6 on mainboard□H□(with shield □order on mainboard from fist pin:red,black,white,black shield,green)	
0147CNTLJX7E052	Connect cable	2.0-9Y-9Y-70mm-A	1	Connect CN609 on 1820C (E) and CN611 on 1819C (E)	

<b>HS500(B) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
0147CNTLJX7E163	HDMI cable	CBADV-19P-19P-2M(black,φ5.5 ,30AWG)	1		
01.48.BPX.1.E109	Flat cable	1.0*20P*60mmA	1	Connect CN11 on mainboard (O) and CN302 on mainboard □O□	
01.48.BPX.1.E108	Flat cable	1.0*14P*60mmA	1	Connect CN13 on mainboard (N) and CN301 on outputboard (N)	
01.48.BPX.1.E107	Flat cable	1.25*18P*380mmA	1	Connect CN601 on 1819C (A) and CN4 on mainboard (A)	
01.48.BPX.1.E103	Flat cable	1.0*16P*70mmA	1	Connect CN7 on mainboard (C) and CN401 on amplifier (C)	
01.48.BPX.1.E085	Flat cable	1.25*11P*70mmA	1	Connect tuner module and CN12 on mainboard	
01.48.BPX.2.E159	Flat cable	0.5*24P*290mmA	1	Connect loader and CN3 on mainboard	
0147CNTLJX5E119	Grounding cable	70MM(with 42 bundles inside)	1	Connect 1820C to the ground under loader support	solder one and grounding M4 another end
0147CNTLJX5E032	Grounding cable	200mm(with 42 bundles inside)	1	Connect headphone on 1819C to ground fastened on SMPS	solder one and grounding M4 another end
0147CNTLJX5E141	Grounding cable	195mm(with 42 bundles inside)□	1	Connect USB on 1819c to ground fastened on SMPS	solder one and grounding M4 another end
01.00.DP.XJ.E192	Silica gel underlay	50.6*4.2*1.5mm(sigle side with 500# white glue)	4	HS100-H01	For underlay
01.00.DP.XJ.E199	Silica gel underlay	21*16*1.0mm (φ3.0)black	1	Match D504(ISL9R1560PF2 DIP) on SMPS	
01.00.DP.HM.E199	Sponge	20*20*7MM(with double side glue)	3	For VFD (2),flat cable attached to volumeboard(1)	
01.00.DP.JY.E158	Insulated PVC	150*152*0.5mm	1	Place between SMPS and chassis	
01.00.DP.JY.E149	Insulated PVC	80*55*0.5MM □transparence PVC with sigle side glue□	1	Stick on the top cover support	
01.00.DP.JY.E173	Insulated PVC	150*160*0.5mm( with sigle side glue)	1	Stick under the top cover above SMPS	

<b>HS500(B) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.DP.JY.E174	Insulated PVC	38*55*0.5mm( with sigle side glue)	1	Stick under outpur board above mainboard	
01.00.DP.JY.E124	Insulated particle	TO-220	1	For D504(ISL9R1560PF2 DIP) on SMPS	
01.00.DP.HM.E290	Sponge	20*20*8mm( with sigle side glue)	4	Place under big transfer and heatsink on SMPS	
01.00.DP.HM.E316	Sponge	20*20*6MM( with sigle side glue)	1	Place under transfer on SMPS	
01.00.DP.HM.E317	Sponge	50*12*4MM( with sigle side glue)	4	Stick on top cover support(2),mainboard-top cover support on mainboard(2)	
01.00.DP.HM.E312	Sponge	125*20*2MM( with sigle side glue)	1	Stick on chassis for flat cable of loader	
01.00.DP.HM.E313	Sponge	65*20*2MM( with sigle side glue)	1	Stick on chassis for flat cable of loader	
01.00.DP.HM.E314	Sponge	30*15*4MM( with sigle side glue)	1	For magnetism annulus of AC power cord	
01.00.DP.HM.E289	Sponge	10*10*6MM(with double side glue)	1	For IR receiver	
01.00.DP.HM.E263	Sponge	20*10*8MM(with double side glue)	1	Place flank between tuner module and chassis	
01.00.DP.HM.E160	Sponge	20*10*4.5mm( with sigle side glue)	3	Place between amplifer and heatsink	
01.00.DP.HM.E117	Sponge	20*10*5MM(with double side glue)	1	Place between 1820C and Flat cable	3M9448
01.00.FZ.QT.E122	Plastic fastener	12CM	4		
01.00.FZ.QT.E216	Plastic fastener	20CM	2		
01.00.DP.QT.E001	Sil-pad	Sil-pad 400-2820	3	For Q501 Q503 Q504 on SMPS	
01.00.DP.JY.E112	Diathermanous Selenium Rubber	16*11*1mm	3	Place on U403 U404 U405 on amplifier	
01.00.DD.PM.E092	Sponge with electric material	10*9*10mm	3	Place under amplifier	
01.00.DD.PM.E166	Sponge with electric material	110*10*8mm	1	Place on top cover support	

<b>HS500(B) Component List</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.00.DD.QT.E152	Electric cloth	20*10MM□single side□	1	Stick between s-video out side and rear panel	
0211HAV06M3625C01	Mainboard(semi-manufactured goods)	HAV06M-3625C01(US Version +HITACHI laser)	1	Four layers board	
0211HAV06M3625C02	Mainboard(semi-manufactured goods)	HAV06M-3625C02(EU Version +HITACHI laser)	1	Four layers board	
0214HAV06I1804C01	Outputboard(semi-manufactured goods)	HAV06I-1804C01(US version)	1	Two layers board	
0214HAV06I1804C02	Outputboard(semi-manufactured goods)	HAV06I-1804C02(EU version)	1	Two layers board	
0217HAV06A1805C01	Amplifier(semi-manufactured goods)	HAV06A-1805C01	1	Two layers board	
0219HAV06P1806C01	SMPS(semi-manufactured goods)	HAV06P-1806C01	1	Two layers board	
0215HAV06K1819C01	Front panel board(semi-manufactured goods)	HAV06K-1819C01	1	Two layers board	
0215HAV06K1820C01	Front panel board(semi-manufactured goods)	HAV06K-1820C01	1	Two layers board	
0215HAV06K1822C01	Front panel board(semi-manufactured goods)	HAV06K-1822C01	1	Two layers board	
<b>HAV06M-3625C01 Component List for MainBoard 3625C(US Version + HITACHI Laser)</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.2.E000J	Resistor, chip	0603-0Ω ±5%	12	R9 R10 R45 R49 R81 R181 R50 R154 R166 R175 R187 R58	
01.57.R.2.E100J	Resistor, chip	0603-10Ω±5%	3	R132 R156 R158	
01.57.R.2.E200J	Resistor, chip	0603-20Ω±5%	4	R42 R43 R61 R62	
01.57.R.2.E220J	Resistor, chip	0603-22Ω±5%	10	R29 R30 (R31) R32 (R33) R34 (R35) R36 (R37) R38	
01.57.R.2.E330J	Resistor, chip	0603-33Ω±5%	13	R47 R124 R125 R126 R127 R145 R146 R151 R153 R155 R142 R147 R149	
01.57.R.2.E680F	Resistor, chip	0603-68Ω ±1%	1	R99	

<b>HAV06M-3625C01 Component List for MainBoard 3625C(US Version + HITACHI Laser)</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.2.E750F	Resistor, chip	0603-75Ω±1%	17	R97 R98 R100 R101 R102 R103 R104 R105 R106 R107 R108 R109 R110 R111 R114 R116 R117	
01.57.R.2.E101J	Resistor, chip	0603-100Ω±5%	8	R6 (R120) (R121) R130 (R133) R139 (R41) (R71)	
01.57.R.2.E151J	Resistor, chip	0603-150Ω±5%	2	R179 R150	
01.57.R.2.E201J	Resistor, chip	0603-200Ω±5%	1	R8	
01.57.R.2.E221J	Resistor, chip	0603-220Ω±5%	5	R19 R136 R137 R138 R140	
01.57.R.2.E271J	Resistor, chip	0603-270Ω±5%	1	R173	
01.57.R.2.E301J	Resistor, chip	0603-300Ω±5%	1	R7	
01.57.R.2.E391J	Resistor, chip	0603-390Ω±5%	1	R167	
01.57.R.2.E4751F	Resistor, chip	0603-475Ω 1%	1	R141	
01.57.R.2.E821J	Resistor, chip	0603-820Ω±5%	1	R183	
01.57.R.2.E102J	Resistor, chip	0603-1KΩ±5%	2	R26 R77	
01.57.R.2.E122J	Resistor, chip	0603-1.2KΩ±5%	2	R80 R83	
01.57.R.2.E152J	Resistor, chip	0603-1.5KΩ±5%	2	R79 R86	
01.57.R.2.E182J	Resistor, chip	0603-1.8KΩ±5%	2	R160 R161	
01.57.R.2.E202J	Resistor, chip	0603-2KΩ±5%	7	R13 R14 R15 R16 R18 R87 R92	
01.57.R.2.E302J	Resistor, chip	0603-3KΩ±5%	3	(R188) (R189) R65	
01.57.R.2.E392J	Resistor, chip	0603-3.9KΩ±5%	3	R44 R46 R52	
01.57.R.2.E472J	Resistor, chip	0603-4.7KΩ±5%	18	R5 R27 R96 R131 R135 R168 R170 R178 R190 R191 R192 R55 R57 R63 R162 R163 R185 R186	
01.57.R.2.E512J	Resistor, chip	0603-5.1KΩ±5%	1	R89	
01.57.R.2.E682J	Resistor, chip	0603-6.8KΩ±5%	1	R91	
01.57.R.2.E103J	Resistor, chip	0603-10KΩ±5%	17	R24 R28 R39 R56 R75 R76 R78 R82 R122 R123 R128 R129 R171 R172 R182 R143 R144	
01.57.R.2.E123F	Resistor, chip	0603-12KΩ±1%	2	R48 (R72)	
01.57.R.2.E153J	Resistor, chip	0603-15KΩ±5%	1	R17	

<b>HAV06M-3625C01 Component List for MainBoard 3625C(US Version + HITACHI Laser)</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.2.E223J	Resistor, chip	0603-22K $\Omega$ $\pm$ 5%	2	R84 R85	
01.57.R.2.E273J	Resistor, chip	0603-27K $\Omega$ $\pm$ 5%	1	R90	
01.57.R.2.E333J	Resistor, chip	0603-33K $\Omega$ $\pm$ 5%	1	R53	
01.57.R.2.E393J	Resistor, chip	0603-39K $\Omega$ $\pm$ 5%	1	R51	
01.57.R.2.E473J	Resistor, chip	0603-47K $\Omega$ $\pm$ 5%	5	R22 R54 R93 R95 R165	
01.57.R.2.E105J	Resistor, chip	0603-1M $\Omega$ $\pm$ 5%	1	R73	
01.57.R.3.E2R0J	Resistor, chip	0805-2 $\Omega$ $\pm$ 5%	2	R59 R60	
01.57.R.8.EP0004	Resistor, thick film chip network	0 $\Omega$ *4 $\pm$ 5%	2	RN1 RN2	
01.57.R.8.EP1004	Resistor, thick film chip network	10 $\Omega$ *4 $\pm$ 5%	1	RN4	
01.57.R.8.EP3304	Resistor, thick film chip network	33 $\Omega$ *4 $\pm$ 5%	7	RN6 RN7 RN8 RN9 RN10 RN11 RN12	
01.57.R.8.EP4724	Resistor, thick film chip network	4.7K $\Omega$ *4 $\pm$ 5%	1	RN3	
01.57.R.Y.E270	Zinc oxide varistor, for ESD	AVR-M1608C270MTABB	2	ESD1 ESD2	SMD □TDK□
01.57.R.C.EG180	Fixed carbon film	RT2W-18 $\Omega$	1	R176	
01.57.R.R.E050	Resettable Fuse	JK-MSMD050 SMD	1	PTC1	JinKe PTC
01.54.CS.2.E3P3N	Capacitor,multilayer ceramic, chip	0603-3.3P NPO $\pm$ 0.25%/50V	1	C192	
01.54.CS.2.E6P8N	Capacitor,multilayer ceramic, chip	0603-6.8P NPO $\pm$ 0.25PF/50V	4	(C146) (C147) (C64) (C65)	
01.54.CS.2.E200N	Capacitor,multilayer ceramic, chip	0603-20P NPO $\pm$ 5%/50V	4	C139 C140 C141 C142	
01.54.CS.2.E330N	Capacitor,multilayer ceramic, chip	0603-33P NPO $\pm$ 5%/50V	2	(C161) (C164)	
01.54.CS.2.E101N	Capacitor,multilayer ceramic, chip	0603-100P NPO $\pm$ 5%/50V	2	C112 C97	
01.54.CS.2.E181N	Capacitor,multilayer ceramic, chip	0603-180P NPO $\pm$ 5%/50V	2	C116 C103	
01.54.CS.2.E221N	Capacitor,multilayer ceramic, chip	0603-220P NPO $\pm$ 5%/50V	3	C84 C87 (C115)	
01.54.CS.2.E271N	Capacitor,multilayer ceramic, chip	0603-270P NPO $\pm$ 5%/50V	1	C162	

<b>HAV06M-3625C01 Component List for MainBoard 3625C(US Version + HITACHI Laser)</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.54.CS.2.E391N	Capacitor,multilayer ceramic, chip	0603-390P NPO±5%/50V	1	(C129)	
01.54.CS.2.E471X	Capacitor,multilayer ceramic, chip	0603-470P X7R±10%/50V	3	C82 C86 C90	
01.54.CS.2.E561N	Capacitor,multilayer ceramic, chip	0603-560P NPO±5%/50V	1	C163	
01.54.CS.2.E681X	Capacitor,multilayer ceramic, chip	0603-680P X7R±10%/50V	4	C105 C106 C108 C111	
01.54.CS.2.E102X	Capacitor,multilayer ceramic, chip	0603-102 X7R±10%/50V	6	C91 C94 C99 (C109) C118 C119	
01.54.CS.2.E152X	Capacitor,multilayer ceramic, chip	0603-152 X7R±10%/50V	1	(C19)	
01.54.CS.2.E272X	Capacitor,multilayer ceramic, chip	0603-272 X7R±10%/50V	1	(C20)	
01.54.CS.2.E332X	Capacitor,multilayer ceramic, chip	0603-332 X7R±10%/50V	3	C113 C114 C120	
01.54.CS.2.E472X	Capacitor,multilayer ceramic, chip	0603-472 X7R±10%/50V	1	C88	
01.54.CS.2.E103Y	Capacitor,multilayer ceramic, chip	0603-103 Y5V-20+80%/50V	1	(C8)	
01.54.CS.2.E153Y	Capacitor,multilayer ceramic, chip	0603-153 Y5V-20+80%/50V	1	C101	
01.54.CS.2.E183X	Capacitor,multilayer ceramic, chip	0603-183 X7R±10%/50V	2	C168 (C169)	
01.54.CS.2.E223X	Capacitor,multilayer ceramic, chip	0603-223 X7R±10%/50V	4	C16 C117 C127 C136	
01.54.CS.2.E683X	Capacitor,multilayer ceramic, chip	0603-683 X7R±10%/50V	2	C121 (C107)	

HAV06M-3625C01 Component List for MainBoard 3625C(US Version + HITACHI Laser)					
P/N	Description	Specification	Qty	Location.No.	Note
01.54.CS.2.E104Y	Capacitor,multilayer ceramic, chip	0603-104 Y5V-20+80%/50V	133	C6 (C7) C9 C10 (C11) C12 C13 (C14) (C15) (C17) C18 (C21) (C22) C23 (C24) C25 (C26) (C27) (C28) (C29) (C30) C31 C32 (C33) (C34) (C35) (C36) (C37) (C38) (C39) C40 C41 C42 (C43) (C44) (C45) (C46) (C47) (C48) (C49) (C50) (C51) (C52) (C53) (C54) (C55) (C56) (C57) (C58) (C59) (C60) (C61) C62 (C63) C66 (C67) (C68) (C69) (C70) (C71) (C72) (C73) (C74) (C75) (C76) (C77) C78 (C79) (C80) C81 C83 C85 (C89) (C92) (C93) (C95) C96 C102 C104 (C110) (C122) (C123) C124 (C125) (C126) (C128) (C130) (C131) (C132) (C133) (C134) (C135) C137 C138 C143 (C144) C148 C149 (C150) C151 (C152) (C153) (C154) (C155) (C156) (C157) (C158) (C159) (C160) C165 C166 C167 (C187) (C190) (C170) (C171) (C172) (C173) (C174) (C175) (C176) (C177) C178 C179 (C180) (C181) C182 C183 C184	
0154CS2E105Y16V	Capacitor,multilayer ceramic, chip	0603-105 Y5V-20+80%/16V	8	C100 (C0) (C194) (C195) (C196) (C197) (C198) (C199)	
0134CLDE2U216VC	Capacitor, AL.electrolytic	CD110-2.2UF/16V 5*11	1	EC37	
0134CLDE10U10VC	Capacitor, AL.electrolytic	CD110-10UF/10V 5*11	4	EC41 EC42 EC46 EC47	
0134CLDE10U16VC	Capacitor, AL.electrolytic	CD110-10UF/16V 5*11	3	EC4 EC25 EC51	



<b>HAV06M-3625C01 Component List for MainBoard 3625C(US Version + HITACHI Laser)</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
0134CLDE22U16VC	Capacitor, AL.electrolytic	CD110-22UF/16V 5*11	3	EC43 EC44 EC45	
0134CLDE33U10VC	Capacitor, AL.electrolytic	CD110-33UF/10V 5*11	1	EC27	
0134CLDE47U10VC	Capacitor, AL.electrolytic	CD110-47UF/10V 5*11	11	EC3 EC5 EC6 EC7 EC8 EC9 EC10 EC11 EC16 EC17 EC50	
0134CLDE47U16VC	Capacitor, AL.electrolytic	CD110-47UF/16V 5*11	6	EC18 EC19 EC22 EC23 EC52 EC54	
0134CLDE47U25VC1	Capacitor, AL.electrolytic	CD110-47UF/25V 5*11	1	EC39	
0134CLDE100U10VD	Capacitor, AL.electrolytic	CD110-100UF/10V 5*12	8	EC2 EC13 EC14 EC15 EC26 EC35 EC36 EC49	
0134CLDE100U16VC	Capacitor, AL.electrolytic	CD110-100UF/16V 5*11	9	EC1 EC12 EC20 EC21 EC24 EC33 EC40 EC53 EC48	
0134CLDE100U25VD	Capacitor, AL.electrolytic	CD110-100UF/25V 6.3*12	1	EC38	
0134CLDE220U10VD	Capacitor, AL.electrolytic	CD110-220UF/10V 5*12	4	EC28 EC29 EC31 EC32	
0134CLDE220U16VD	Capacitor, AL.electrolytic	CD110-220UF/16V 6.3*12	1	EC34	
0134CLDEV1500U6V3S	Capacitor, AL.electrolytic	CD110-1500UF/6.3V 8*17	1	EC30	
01.13.L.Z.ESA50	Bead, chip	0603-50Ω	25	FB16 FB18 FB20 FB22 FB23 FB24 FB25 FB26 FB27 FB28 FB29 FB30 FB31 FB32 FB33 FB35 FB36 FB37 FB38 FB39 FB40 FB47 (FB48) FB49 FB52	
01.13.L.Z.ESB50	Bead, chip	0805-50Ω	12	FB1 FB7 FB9 FB11 (FB13) FB19 FB5 FB42 FB43 FB44 FB45 FB46	
01.13.L.Z.E102YN	Bead, chip	PBY160808T-102Y-N	1	R174	Important for EMI test,QiLiXing
01.13.L.Z.ED50A	Bead, leaded fixed	50Ω□3.5*6.0*0.8□	11	FB3 FB4 FB6 FB8 FB10 FB12 FB14 FB15 FB17 FB34 FB41	
01.13.L.L.S.E018	Inductor, multilayer ceramic, chip	1206-10UH	2	L1 L2	

<b>HAV06M-3625C01 Component List for MainBoard 3625C(US Version + HITACHI Laser)</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.13.L.L.S.E144	Inductor, multilayer ceramic, chip	47nH(MLG1608B47NJT000)	1	FB53	Important for EMI test
01.13.L.R.E068	Tuner 19k filter	EJ219	2	B1 B2	TOKO
01.13.L.L.S.E136	Inductor, chip	ACM2012-900-2P	4	L3 L4 L5 L6	(TDK□)
01.41.D.PS.ELL4148	Diode	LL4148 SMD	4	D4 D5 D6 D11	
01.41.D.PD.E5393	Diode	IN5393 DIP	6	D1 D2 D3 D8 D9 D10	
01.42.Q.S.E1132	Transistor	2SB1132 SMD	2	Q1 Q6	SOT89
01.42.Q.S.E3018	Transistor	2SK3018T106 SMD	1	Q9	UMT3
01.42.Q.S.EC8550	Transistor	KTC8550 SMD	2	Q10 Q3	
01.42.Q.S.E8050	Transistor	KTC8050 SMD	1	Q4	SOT23
01.00.JZ.E2700C	Fundamental. Oscillator	27.00MHZ with 3.3v(basic frequency)	1	Y1	DongGuang or BeiBaiChuang
01.00.JZ.E06000A	Fundamental. Oscillator	6.000MHZ-49S-6.8P (basic frequency)	1	Y2	FengHua in TongLing ,AnHui(basic frequency)
01.00.JZ.E4332	Fundamental. Oscillator	4.332MHz-49S-33P	1	Y3	Basic frequency
01.44.IC.S.EC5FP	IC,Rohm ,Voltage Regulator	BA00HC5FP SMD	1	U1	Rohm T0252-5
01.46.IC.E7414	IC, Philips, Hex inverting Schmitt trigger	74HCT14 SMD	1	U2	
01.44.IC.S.E24C64	IC, Atmel, EEPROM	AT24C64-2.7 SMD	1	U3 (burn-in firmware US version□)	Atmel SO8
01.44.IC.S.E3278	IC, Amlogic, decoder	AML3278 SMD	1	U4	Amlogic PQFP256LD
01.44.IC.S.E9536	IC,Xilinx ,CPLD	XC9536XL-10VQ44C SMD	1	U5 (burn-in firmware on board)	Xilinx VQFP44
01.44.IC.S.E16400B	IC, ISSI, SDRAM	IS42S16400B-6T SMD	2	U7 U8	ISSI TSOP54
0144ICSE29LV160DB	IC, AMD, Flash memory	S29AL016M90TFI02	1	U9 (burn-in firmware US version□)	AMD TSOP48
01.44.IC.S.E6208F	IC, Rohm, Motor driver	BA6208F SMD	1	U10	Rohm SOP8
01.44.IC.S.E5888	IC, Rohm, Actuator driver	BA5888FP SMD	1	U11	Rohm HSOP28
01.44.IC.S.E3501	IC, Amlogic, RF Processor	AML3501 SMD	1	U12	Amlogic TSSOP48
01.44.IC.S.ELM358M	IC, Fairchild, Pre-amp	LM358M SMD	1	U13	SMT SO8
01.44.IC.S.E2561	IC,JRC,Low Voltage Video Amplifier contained LPF circuit	NJM2561F1 SMD	1	U14	JRC MTP6

<b>HAV06M-3625C01 Component List for MainBoard 3625C(US Version + HITACHI Laser)</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.44.IC.S.E4410	IC,Analog Devices,Integrated Video Filter	ADA4410-6 SMD	1	U15	AD CP-32-3
01.44.IC.S.E0514	IC,Semtech ,ESD protection device	RClamp0514M SMD	4	U16 U24 U25 U26	Semtech MSOP-10L
01.44.IC.S.E242L	IC,TransDimension Inc.,USB host controller	TDOTG242LP SMD	1	U17	Amlogic LQFP-64
01.44.IC.S.E1924	IC, Rohm, RDS decoder	BU1924F SMD	1	U18	Rohm SOP16
01.44.IC.D.EL7809	IC, NS, Voltage Regulator	L7809 DIP	1	U19	TO-220
01.44.IC.D.E78L05	IC, NS, Voltage Regulator	78L05 DIP	1	U20	TO-92
01.44.IC.D.EPC817	IC, Sharp, Photoelectric Coupler	PC817 DIP	1	U27	Sharp
01.44.IC.D.EL7805	IC, NS, Voltage Regulator	L7805 DIP	1	U32	TO-220
01.44.IC.S.E9030A	IC,Silicon Image,HDMI PanelLink transmitter	SiI9030CTU SMD	1	U21	TQFP80
01.44.IC.S.E1117H	IC,Advanced Analog Circuits Corporation, Voltage Regulator	AZ1117H-5.0 SMD	1	U29	SOT-223
0144ICSEA11171V8	IC,Advanced Analog Circuits Corporation, Voltage Regulator	AZ1117H-1.8 SMD	1	U23	SOT-223
0144ICSEA11173V3	IC,Advanced Analog Circuits Corporation, Voltage Regulator	AZ1117H-3.3 SMD	1	U30	SOT-223
01.44.IC.S.E672T	IC,NEC,level shift device	UPA672T SMD	1	U31	NEC SC-70
01.40.CON.DCZ.E316	Jack,HDMI	1747981-1 SMD	1	J4	51U019S-331N-A SMD
01.40.CON.DCZ.E045	Jack,YuanChang,video output	AV1-8.4-8G,yellow,fireproof	1	J2	
0140CONDDZEDSW-6	Jack,S-video output	DSW-6	1	J1	
01.40.CON.DCZ.E293	Jack,YuanChang,component output	AV3-8.4-14/PB-left green,middle blue,right red,fireproof	1	J3	
01.40.CON.DCZ.E217	Jack,BaiChuanHe,USB input	USB-A-05,environmental protection	1	J7	
01.40.CON.DCZ.E203	Jack,YuanChang,headphone output	CKX-3.5-22	2	J5 J6	

<b>HAV06M-3625C01 Component List for MainBoard 3625C(US Version + HITACHI Laser)</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.40.CON.DPH.E020	connector	PH-4A ,in-line package,fireproof	1	CN14	
01.40.CON.DPH.E024	connector	PH-5A,in-line package,fireproof	2	CN1 CN6	
01.40.CON.DPH.E028	connector	PH-6A ,in-line package,fireproof	2	CN2 CN17	
01.40.CON.DPH.E002	connector	PH-10A ,in-line package,fireproof	1	CN9	
01.40.CON.DPH.E047	connector	PH-13A ,in-line package,fireproof	1	CN5	
0140CONS10FPC2E030	FPC connector	1.0-14P,in-line package with double touch,black	1	CN13	
0140CONS10FPC2E024	FPC connector	1.0-16P,in-line package with double touch,black	1	CN7	
0140CONS10FPC2E031	FPC connector	1.0-20P,in-line package with double touch,black	1	CN11	
01.40.CON.DCZ.E062	FPC double line connector	1.25-11P ,in-line package	1	CN12	
0140CONS13FPC2E020	FPC double line connector	1.25-18P,in-line package with single touch,white	1	CN4	
01.40.CON.S05.E007	Connector,chip	FPC-0.5-24P,with upside touch	1	CN3	
0137PCB4E3625C11	PCB	Mainboard 3625C-V1.1	1		Four layers
01.57.R.2.E000J	Resistor, chip	0603-0Ω ±5%	12	R9 R10 R45 R49 R81 R181 R50 R154 R166 R175 R187 R58	
01.57.R.2.E100J	Resistor, chip	0603-10Ω±5%	3	R132 R156 R158	
01.57.R.2.E200J	Resistor, chip	0603-20Ω±5%	4	R42 R43 R61 R62	
01.57.R.2.E220J	Resistor, chip	0603-22Ω±5%	10	R29 R30 (R31) R32 (R33) R34 (R35) R36 (R37) R38	
01.57.R.2.E330J	Resistor, chip	0603-33Ω±5%	13	R47 R124 R125 R126 R127 R145 R146 R151 R153 R155 R142 R147 R149	
01.57.R.2.E680F	Resistor, chip	0603-68Ω ±1%	1	R99	
01.57.R.2.E750F	Resistor, chip	0603-75Ω±1%	17	R97 R98 R100 R101 R102 R103 R104 R105 R106 R107 R108 R109 R110 R111 R114 R116 R117	

<b>HAV06M-3625C02 Component List for MainBoard 3625C(EU Version + HITACHI Laser)</b>					
<b>P/N</b>		<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.2.E101J	Resistor, chip	0603-100Ω±5%	8	R6 (R120) (R121) R130 (R133) R139 (R41) (R71)	
01.57.R.2.E151J	Resistor, chip	0603-150Ω±5%	2	R179 R150	
01.57.R.2.E201J	Resistor, chip	0603-200Ω±5%	1	R8	
01.57.R.2.E221J	Resistor, chip	0603-220Ω±5%	5	R19 R136 R137 R138 R140	
01.57.R.2.E271J	Resistor, chip	0603-270Ω±5%	1	R173	
01.57.R.2.E301J	Resistor, chip	0603-300Ω±5%	1	R7	
01.57.R.2.E391J	Resistor, chip	0603-390Ω±5%	1	R167	
01.57.R.2.E4751F	Resistor, chip	0603-475Ω 1%	1	R141	
01.57.R.2.E821J	Resistor, chip	0603-820Ω±5%	1	R183	
01.57.R.2.E102J	Resistor, chip	0603-1KΩ±5%	2	R26 R77	
01.57.R.2.E122J	Resistor, chip	0603-1.2KΩ±5%	2	R80 R83	
01.57.R.2.E152J	Resistor, chip	0603-1.5KΩ±5%	2	R79 R86	
01.57.R.2.E182J	Resistor, chip	0603-1.8KΩ±5%	2	R160 R161	
01.57.R.2.E202J	Resistor, chip	0603-2KΩ±5%	9	R13 R14 R15 R16 R18 R87 R92 R112 R115	
01.57.R.2.E302J	Resistor, chip	0603-3KΩ±5%	3	(R188) (R189) R65	
01.57.R.2.E392J	Resistor, chip	0603-3.9KΩ±5%	3	R44 R46 R52	
01.57.R.2.E472J	Resistor, chip	0603-4.7KΩ±5%	19	R5 R27 R36 R131 R132 R168 R170 R178 R190 R191 R192 R55 R57 R63 R162 R163 R185 R186 R148	
01.57.R.2.E512J	Resistor, chip	0603-5.1KΩ±5%	1	R89	
01.57.R.2.E682J	Resistor, chip	0603-6.8KΩ±5%	1	R91	
01.57.R.2.E103J	Resistor, chip	0603-10KΩ±5%	17	R24 R28 R39 R56 R75 R76 R78 R82 R122 R123 R128 R129 R171 R172 R182 R143 R144	
01.57.R.2.E123F	Resistor, chip	0603-12KΩ±1%	2	R48 (R72)	
01.57.R.2.E153J	Resistor, chip	0603-15KΩ±5%	2	R17 R113	
01.57.R.2.E223J	Resistor, chip	0603-22KΩ±5%	2	R84 R85	
01.57.R.2.E273J	Resistor, chip	0603-27KΩ±5%	1	R90	
01.57.R.2.E333J	Resistor, chip	0603-33KΩ±5%	1	R53	
01.57.R.2.E393J	Resistor, chip	0603-39KΩ±5%	1	R51	

<b>HAV06M-3625C02 Component List for MainBoard 3625C(EU Version + HITACHI Laser)</b>					
<b>P/N</b>		<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.2.E473J	Resistor, chip	0603-47K $\Omega$ $\pm$ 5%	5	R22 R54 R93 R95 R165	
01.57.R.2.E105J	Resistor, chip	0603-1M $\Omega$ $\pm$ 5%	1	R73	
01.57.R.3.E2R0J	Resistor, chip	0805-2 $\Omega$ $\pm$ 5%	2	R59 R60	
01.57.R.8.EP0004	Resistor, thick film chip network	0 $\Omega$ *4 $\pm$ 5%	2	RN1 RN2	
01.57.R.8.EP1004	Resistor, thick film chip network	10 $\Omega$ *4 $\pm$ 5%	1	RN4	
01.57.R.8.EP4724	Resistor, thick film chip network	4.7K $\Omega$ *4 $\pm$ 5%	1	RN3	
01.57.R.Y.E270	Zinc oxide varistor, for ESD	AVR-M1608C270MTABB	2	ESD1 ESD2	SMD □ TDK □
01.57.R.C.EG180	Fixed carbon film	RT2W-18 $\Omega$	1	R176	
01.57.R.R.E050	Resettable Fuse	JK-MSMD050 SMD	1	PTC1	JinKe PTC
01.54.CS.2.E3P3N	Capacitor,multilayer ceramic, chip	0603-3.3P NPO $\pm$ 0.25%/50V	1	C192	
01.54.CS.2.E6P8N	Capacitor,multilayer ceramic, chip	0603-6.8P NPO $\pm$ 0.25PF/50V	4	(C146) (C147) (C64) (C65)	
01.54.CS.2.E200N	Capacitor,multilayer ceramic, chip	0603-20P NPO $\pm$ 5%/50V	4	C139 C140 C141 C142	
01.54.CS.2.E330N	Capacitor,multilayer ceramic, chip	0603-33P NPO $\pm$ 5%/50V	2	(C161) (C164)	
01.54.CS.2.E101N	Capacitor,multilayer ceramic, chip	0603-100P NPO $\pm$ 5%/50V	2	C112 C97	
01.54.CS.2.E181N	Capacitor,multilayer ceramic, chip	0603-180P NPO $\pm$ 5%/50V	2	C116 C103	
01.54.CS.2.E221N	Capacitor,multilayer ceramic, chip	0603-220P NPO $\pm$ 5%/50V	3	C84 C87 (C115)	
01.54.CS.2.E271N	Capacitor,multilayer ceramic, chip	0603-270P NPO $\pm$ 5%/50V	1	C162	
01.54.CS.2.E391N	Capacitor,multilayer ceramic, chip	0603-390P NPO $\pm$ 5%/50V	1	(C129)	
01.54.CS.2.E471X	Capacitor,multilayer ceramic, chip	0603-470P X7R $\pm$ 10%/50V	3	C82 C86 C90	
01.54.CS.2.E561N	Capacitor,multilayer ceramic, chip	0603-560P NPO $\pm$ 5%/50V	1	C163	
01.54.CS.2.E681X	Capacitor,multilayer ceramic, chip	0603-680P X7R $\pm$ 10%/50V	4	C105 C106 C108 C111	

<b>HAV06M-3625C02 Component List for MainBoard 3625C(EU Version + HITACHI Laser)</b>					
<b>P/N</b>		<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.54.CS.2.E102X	Capacitor,multilayer ceramic, chip	0603-102 X7R±10%/50V	6	C91 C94 C99 (C109) C118 C119	
01.54.CS.2.E152X	Capacitor,multilayer ceramic, chip	0603-152 X7R±10%/50V	1	(C19)	
01.54.CS.2.E272X	Capacitor,multilayer ceramic, chip	0603-272 X7R±10%/50V	1	(C20)	
01.54.CS.2.E332X	Capacitor,multilayer ceramic, chip	0603-332 X7R±10%/50V	3	C113 C114 C120	
01.54.CS.2.E472X	Capacitor,multilayer ceramic, chip	0603-472 X7R±10%/50V	1	C88	
01.54.CS.2.E103Y	Capacitor,multilayer ceramic, chip	0603-103 Y5V-20+80%/50V	1	(C8)	
01.54.CS.2.E153Y	Capacitor,multilayer ceramic, chip	0603-153 Y5V-20+80%/50V	1	C101	
01.54.CS.2.E183X	Capacitor,multilayer ceramic, chip	0603-183 X7R±10%/50V	2	C168 (C169)	
01.54.CS.2.E223X	Capacitor,multilayer ceramic, chip	0603-223 X7R±10%/50V	4	C16 C117 C127 C136	
01.54.CS.2.E683X	Capacitor,multilayer ceramic, chip	0603-683 X7R±10%/50V	2	C121 (107)	

HAV06M-3625C02 Component List for MainBoard 3625C(EU Version + HITACHI Laser)					
P/N		Specification	Qty	Location.No.	Note
01.54.CS.2.E104Y	Capacitor,multilayer ceramic, chip	0603-104 Y5V-20+80%/50V	134	C6 (C7) C9 C10 (C11) C12 C13 (C14) (C15) (C17) C18 (C21) (C22) C23 (C24) C25 (C26) (C27) (C28) (C29) (C30) C31 C32 (C33) (C34) (C35) (C36) (C37) (C38) (C39) C40 C41 C42 (C43) (C44) (C45) (C46) (C47) (C48) (C49) (C50) (C51) (C52) (C53) (C54) (C55) (C56) (C57) (C58) (C59) (C60) (C61) C62 (C63) C66 (C67) (C68) (C69) (C70) (C71) (C72) (C73) (C74) (C75) (C76) (C77) C78 (C79) (C80) C81 C83 C85 (C89) (C92) (C93) (C95) C96 C102 C104 (C110) (C122) (C123) C124 (C125) (C126) (C128) (C130) (C131) (C132) (C133) (C134) (C135) C137 C138 C143 (C144) C145 C148 C149 (C150) C151 (C152) (C153) (C154) (C155) (C156) (C157) (C158) (C159) (C160) C165 C166 C167 (C187) (C190) (C170) (C171) (C172) (C173) (C174) (C175) (C176) (C177) C178 C179 (C180) (C181) C182 C183 C184	
0154CS2E105Y16V	Capacitor,multilayer ceramic, chip	0603-105 Y5V-20+80%/16V	8	100 (C0) (C194) (C195) (C196) (C197) (C198) (C199)	
0134CLDE2U216VC	Capacitor, AL.electrolytic	CD110-2.2UF/16V 5*11	1	EC37	
0134CLDE10U10VC	Capacitor, AL.electrolytic	CD110-10UF/10V 5*11	4	EC41 EC42 EC46 EC47	
0134CLDE10U16VC	Capacitor, AL.electrolytic	CD110-10UF/16V 5*11	3	EC4 EC25 EC51	



<b>HAV06M-3625C02 Component List for MainBoard 3625C(EU Version + HITACHI Laser)</b>					
<b>P/N</b>		<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
0134CLDE22U16VC	Capacitor, AL.electrolytic	CD110-22UF/16V 5*11	3	EC43 EC44 EC45	
0134CLDE33U10VC	Capacitor, AL.electrolytic	CD110-33UF/10V 5*11	1	EC27	
0134CLDE47U10VC	Capacitor, AL.electrolytic	CD110-47UF/10V 5*11	11	EC3 EC5 EC6 EC7 EC8 EC9 EC10 EC11 EC16 EC17 EC50	
0134CLDE47U16VC	Capacitor, AL.electrolytic	CD110-47UF/16V 5*11	6	EC18 EC19 EC22 EC23 EC52 EC54	
0134CLDE47U25VC1	Capacitor, AL.electrolytic	CD110-47UF/25V 5*11	1	EC39	
0134CLDE100U10VD	Capacitor, AL.electrolytic	CD110-100UF/10V 5*12	8	EC2 EC13 EC14 EC15 EC26 EC35 EC36 EC49	
0134CLDE100U16VC	Capacitor, AL.electrolytic	CD110-100UF/16V 5*11	9	EC1 EC12 EC20 EC21 EC24 EC33 EC40 EC53 EC48	
0134CLDE100U25VD	Capacitor, AL.electrolytic	CD110-100UF/25V 6.3*12	1	EC38	
0134CLDE220U10VD	Capacitor, AL.electrolytic	CD110-220UF/10V 5*12	4	EC28 EC29 EC31 EC32	
0134CLDE220U16VD	Capacitor, AL.electrolytic	CD110-220UF/16V 6.3*12	1	EC34	
0134CLDEV1500U6V3S	Capacitor, AL.electrolytic	CD110-1500UF/6.3V 8*17	1	EC30	
01.13.L.Z.ESA50	Bead, chip	0603-50Ω	25	FB16 FB18 FB20 FB22 FB23 FB24 FB25 FB26 FB27 FB28 FB29 FB30 FB31 FB32 FB33 FB35 FB36 FB37 FB38 FB39 FB40 FB47 (FB48) FB49 FB52	
01.13.L.Z.ESB50	Bead, chip	0805-50Ω	12	FB1 FB7 FB9 FB11 (FB13) FB19 FB5 FB42 FB43 FB44 FB45 FB46	
01.57.R.8.EP3304	Resistor, thick film chip network	33Ω*4 ±5%	7	RN6 RN7 RN8 RN9 RN10 RN11 RN12	
01.13.L.Z.E102YN	Bead, chip	PBY160808T-102Y-N	1	R174	Important for EMI test, QiLiXing
01.13.L.Z.ED50A	Bead, leaded fixed	50Ω□3.5*6.0*0.8□	11	FB3 FB4 FB6 FB8 FB10 FB12 FB14 FB15 FB17 FB34 FB41	
01.13.L.L.S.E018	Inductor, multilayer ceramic, chip	1206-10UH	2	L1 L2	

<b>HAV06M-3625C02 Component List for MainBoard 3625C(EU Version + HITACHI Laser)</b>					
<b>P/N</b>		<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.13.L.L.S.E144	Inductor, multilayer ceramic, chip	0005-47nH(MLG1608B47NJT000)	1	FB53	Important for EMI test
01.13.L.R.E068	Tuner 19k filter	EJ219	2	B1 B2	TOKO
01.13.L.L.S.E136	Inductor, chip	ACM2012-900-2P	4	L3 L4 L5 L6	(TDK□)
01.41.D.PS.ELL4148	Diode	LL4148 SMD	4	D4 D5 D6 D11	
01.41.D.PD.E5393	Diode	IN5393 DIP	6	D1 D2 D3 D8 D9 D10	
01.42.Q.S.E1132	Transistor	2SB1132 SMD	2	Q1 Q6	SOT89
01.42.Q.S.E3018	Transistor	2SK3018T106 SMD	1	Q9	UMT3
01.42.Q.S.EC8550	Transistor	KTC8550 SMD	2	Q10 Q3	
01.42.Q.S.E8050	Transistor	KTC8050 SMD	3	Q4 Q7 Q8	SOT23
01.00.JZ.E2700C	Fundamental. Oscillator	27.00MHZ with 3.3v(basic frequency)	1	Y1	DongGuang or BeiBaiChuang
01.00.JZ.E06000A	Fundamental. Oscillator	6.000MHZ-49S-6.8P (basic frequency)	1	Y2	FengHua in TongLing ,AnHui(basic frequency)
01.00.JZ.E4332	Fundamental. Oscillator	4.332MHz-49S-33P	1	Y3	Basic frequency
01.44.IC.S.EC5FP	IC,Rohm ,Voltage Regulator	BA00HC5FP SMD	1	U1	Rohm T0252-5
01.46.IC.E7414	IC, Philips, Hex inverting Schmitt trigger	74HCT14 SMD	1	U2	
01.44.IC.S.E24C64	IC, Atmel, EEPROM	AT24C64-2.7 SMD	1	U3 (burn-in firmware EU version□)	Atmel SO8
01.44.IC.S.E3278	IC, Amlogic, decoder	AML3278 SMD	1	U4	Amlogic PQFP256LD
01.44.IC.S.E9536	IC,Xilinx ,CPLD	XC9536XL-10VQ44C SMD	1	U5 (burn-in firmware on board)	Xilinx VQFP44
01.44.IC.S.E16400B	IC, ISSI, SDRAM	IS42S16400B-6T SMD	2	U7 U8	ISSI TSOP54
0144ICSE29LV160DB	IC, AMD, Flash memory	S29AL016M90TFI02	1	U9 (burn-in firmware EU version□)	AMD TSOP48
01.44.IC.S.E6208F	IC, Rohm, Motor driver	BA6208F SMD	1	U10	Rohm SOP8
01.44.IC.S.E5888	IC, Rohm, Actuator driver	BA5888FP SMD	1	U11	Rohm HSOP28
01.44.IC.S.E3501	IC, Amlogic, RF Processor	AML3501 SMD	1	U12	Amlogic TSSOP48
01.44.IC.S.ELM358M	IC, Fairchild, Pre-amp	LM358M SMD	1	U13	SMT SO8
01.44.IC.S.E2561	IC,JRC,Low Voltage Video Amplifier contained LPF circuit	NJM2561F1 SMD	1	U14	JRC MTP6

<b>HAV06M-3625C02 Component List for MainBoard 3625C(EU Version + HITACHI Laser)</b>					
<b>P/N</b>		<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.44.IC.S.E4410	IC,Analog Devices,Integrated Video Filter	ADA4410-6 SMD	1	U15	AD CP-32-3
01.44.IC.S.E0514	IC,Semtech ,ESD protection device	RClamp0514M SMD	4	U16 U24 U25 U26	Semtech MSOP-10L
01.44.IC.S.E242L	IC,TransDimension Inc.,USB host controller	TDOTG242LP SMD	1	U17	Amlogic LQFP-64
01.44.IC.S.E1924	IC, Rohm, RDS decoder	BU1924F SMD	1	U18	Rohm SOP16
01.44.IC.D.EL7809	IC, NS, Voltage Regulator	L7809 DIP	1	U19	TO-220
01.44.IC.D.E78L05	IC, NS, Voltage Regulator	78L05 DIP	1	U20	TO-92
01.44.IC.D.EPC817	IC, Sharp, Photoelectric Coupler	PC817 DIP	1	U27	Sharp
01.44.IC.D.EL7805	IC, NS, Voltage Regulator	L7805 DIP	1	U32	TO-220
01.44.IC.S.E9030A	IC,Silicon Image,HDMI PanelLink transmitter	SiI9030CTU SMD	1	U21	TQFP80
01.44.IC.S.E1117H	IC,Advanced Analog Circuits Corporation, Voltage Regulator	AZ1117H-5.0 SMD	1	U29	SOT-223
0144ICSEA11171V8	IC,Advanced Analog Circuits Corporation, Voltage Regulator	AZ1117H-1.8 SMD	1	U23	SOT-223
0144ICSEA11173V3	IC,Advanced Analog Circuits Corporation, Voltage Regulator	AZ1117H-3.3 SMD	1	U30	SOT-223
01.44.IC.S.E672T	IC,NEC,level shift device	UPA672T SMD	1	U31	NEC SC-70
01.40.CON.DCZ.E316	Jack,HDMI	1747981-1 SMD	1	J4	51U019S-331N-A SMD
01.40.CON.DCZ.E045	Jack,YuanChang,video output	AV1-8.4-8G,yellow,fireproof	1	J2	
0140CONDDZEDSW-6	Jack,S-video output	DSW-6	1	J1	
01.40.CON.DCZ.E293	Jack,YuanChang,component output	AV3-8.4-14/PB-left green,middle blue,right red,fireproof	1	J3	
01.40.CON.DCZ.E217	Jack,BaiChuanHe,USB input	USB-A-05,environmental protection	1	J7	

<b>HAV06M-3625C02 Component List for MainBoard 3625C(EU Version + HITACHI Laser)</b>					
<b>P/N</b>		<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.40.CON.DCZ.E203	Jack,YuanChang,headphone output	CKX-3.5-22	2	J5 J6	
01.40.CON.DPH.E020	connector	PH-4A ,in-line package,fireproof	1	CN14	
01.40.CON.DPH.E024	connector	PH-5A,in-line package,fireproof	2	CN1 CN6	
01.40.CON.DPH.E028	connector	PH-6A ,in-line package,fireproof	2	CN2 CN17	
01.40.CON.DPH.E002	connector	PH-10A ,in-line package,fireproof	1	CN9	
01.40.CON.DPH.E047	connector	PH-13A ,in-line package,fireproof	1	CN5	
0140CONS10FPC2E030	FPC connector	1.0-14P,in-line package with double touch,black	1	CN13	
0140CONS10FPC2E024	FPC connector	1.0-16P,in-line package with double touch,black	1	CN7	
0140CONS10FPC2E031	FPC connector	1.0-20P,in-line package with double touch,black	1	CN11	
01.40.CON.DCZ.E062	FPC double line connector	1.25-11P ,in-line package	1	CN12	
0140CONS13FPC2E020	FPC double line connector	1.25-18P,in-line package with single touch,white	1	CN4	
01.40.CON.S05.E007	Connector,chip	FPC-0.5-24P,with upside touch	1	CN3	
0137PCB4E3625C11	PCB	Mainboard 3625C-V1.1	1		Four layers
<b>HAV06I-1804C01 Component List for US OutputBoard 1804C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.2.E000J	Resistor, chip	0603-0Ω ±5%	1	R356	
01.57.R.2.E100J	Resistor, chip	0603-10Ω±5%	1	R353	
01.57.R.2.E561J	Resistor, chip	0603-560Ω±5%	1	R379	
01.57.R.2.E750J	Resistor, chip	0603-75Ω±5%	1	R378	
01.57.R.2.E111J	Resistor, chip	0603-110Ω±5%	1	R343	
01.57.R.2.E151J	Resistor, chip	0603-150Ω±5%	1	R342	
01.57.R.2.E221J	Resistor, chip	0603-220Ω±5%	1	R341	
01.57.R.2.E331J	Resistor, chip	0603-330Ω±5%	3	R321 R328 R344	
01.57.R.2.E681J	Resistor, chip	0603-680Ω±5%	2	R320 R327	

<b>HAV06I-1804C01 Component List for US OutputBoard 1804C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.2.E1781F	Resistor, chip	0603-1.78KΩ±1%	2	R319 R329	Important to audio test
01.57.R.2.E222J	Resistor, chip	0603-2.2KΩ±5%	4	R304 R312 R364 R380	
01.57.R.2.E472J	Resistor, chip	0603-4.7KΩ±5%	3	R300 R305 R352	
01.57.R.2.E4752F	Resistor, chip	0603-4.75KΩ 1%	4	R323 R324 R336 R337	Important to audio test
01.57.R.2.E512J	Resistor, chip	0603-5.1KΩ±5%	2	R354 R355	
01.57.R.2.E752F	Resistor, chip	0603-7.5KΩ 1%	2	R326 R332	
01.57.R.2.E103J	Resistor, chip	0603-10KΩ±5%	22	R301 R302 R303 R307 R309 R311 R322 R325 R330 R331 R333 R339 R340 R345 R346 R351 R359 R360 R363 R365 R382 R347	
01.57.R.2.E473J	Resistor, chip	0603-47KΩ±5%	3	R334 R335 R381	
01.57.R.2.E104J	Resistor, chip	0603-100KΩ±5%	1	R349	
01.57.R.3.E222J	Resistor, chip	0805-2.2KΩ±5%	4	(R370) (R372) (R374) (R376)	
01.57.R.3.E103J	Resistor, chip	0805-10KΩ±5%	5	(R371) (R373) (R375) (R377) (R350)	
01.54.CS.2.E470N	Capacitor,multilayer ceramic, chip	0603-47P NPO±5%/50V	2	C325 C326	
01.54.CS.3.E101N	Capacitor,multilayer ceramic, chip	0805-100P NPO±5%/50V	2	C306 C314	Important to audio test
01.54.CS.2.E101N	Capacitor,multilayer ceramic, chip	0603-100P NPO±5%/50V	2	C317 C318	
01.54.CS.3.E681N	Capacitor,multilayer ceramic, chip	0805-680P NPO±5%/50V	2	C307 C311	Important to audio test
01.54.CS.3.E102N	Capacitor,multilayer ceramic, chip	0805-102 NPO±5%/50V	2	C305 C310	Important to audio test
01.54.CS.2.E104Y	Capacitor,multilayer ceramic, chip	0603-104 Y5V-20+80%/50V	12	C308 C309 C312 C313 C315 C316 C319 C320 C322 C324 C327 C328	
0134CLDE10U16VC	Capacitor, AL.electrolytic	CD110-10UF/16V 5*11	10	EC304 EC305 EC312 EC315 EC316 EC318 EC320 EC322 EC306 EC308	
0134CLDE47U16VC	Capacitor, AL.electrolytic	CD110-47UF/16V 5*11	4	EC302 EC303 EC307 EC310	
0134CLDE47U25VC1	Capacitor, AL.electrolytic	CD110-47UF/25V 5*11	2	EC313 EC314	

<b>HAV06I-1804C01 Component List for US OutputBoard 1804C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
0134CLDE100U16VC	Capacitor, AL.electrolytic	CD110-100UF/16V 5*11	1	EC323	
0134CLDE220U16VD	Capacitor, AL.electrolytic	CD110-220UF/16V 6.3*12	2	EC309 EC311	
01.13.L.Z.E5A50	Bead, chip	0603-50Ω	2	FB306 FB307	
01.41.D.PS.ELL4148	Diode	LL4148 SMD	9	D300 D301 D302 D303 D304 D305 D306 D307 D308	
01.42.Q.S.E8050	Transistor	KTC8050 SMD	2	Q300 Q302	SOT23
01.42.Q.S.EC8550	Transistor	KTC8550 SMD	3	Q301 Q303 Q311	SOT23
01.42.Q.S.E343	Transistor	DTC343TK SMD	4	Q307 Q308 Q309 Q310	SMT3
01.44.IC.S.E833	IC,NS,Dual Audio Operational Amplifier	LM833M SMD	1	U301	
01.44.IC.S.E8776	IC, Wolfson, Stereo CODEC with 5 Channel I/P Multiplexer	WM8776SEFT SMD	1	U302	Wolfson TQFP48
0144ICSE74HC158	IC, TI, Data selectors	74HC158 SMD	1	U303	(TI or TOSHIBA□SOP16
01.46.IC.E74H04	IC,Philips,hex inverter	74HCU04 SMD	1	U304	TSSOP14
0140CONS10FPC2E030	FPC connector	1.0-14P,in-line package with double side touch ,black)	1	CN301	
0140CONS10FPC2E031	FPC connector	1.0-20Pin-line package with double side touch ,black)	1	CN302	
01.40.CON.DPH.E002	Connector	PH-10A ,fireproof	1	CN303	
01.40.CON.DPH.E020	Connector	PH-4A fireproof	1	CN304	
01.43.E004	Jack, Fiber optic output jack with shutter	GP1FA513RZ	1	J305	
01.40.CON.DCZ.E218	Jack, YuanChang, Coaxial output jack	AV2-8.4-9/PB,orange color with shield	1	J304	
01.40.CON.DCZ.E242	Jack,YuanChang,audio input & output,TV input	AV6-8.4-7/PB ,fireproof,down red and up white	1	J302	
<b>HAV06I-1804C02 Component List for EU OutputBoard 1804C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.2.E000J	Resistor, chip	0603-0Ω ±5%	1	R356	
01.57.R.2.E100J	Resistor, chip	0603-10Ω±5%	1	R353	
01.57.R.2.E561J	Resistor, chip	0603-560Ω±5%	1	R379	
01.57.R.2.E750J	Resistor, chip	0603-75Ω±5%	1	R378	

HAV06I-1804C02 Component List for EU OutputBoard 1804C					
P/N	Description	Specification	Qty	Location.No.	Note
01.57.R.2.E111J	Resistor, chip	0603-110Ω±5%	1	R343	
01.57.R.2.E151J	Resistor, chip	0603-150Ω±5%	1	R342	
01.57.R.2.E221J	Resistor, chip	0603-220Ω±5%	1	R341	
01.57.R.2.E331J	Resistor, chip	0603-330Ω±5%	3	R321 R328 R344	
01.57.R.2.E681J	Resistor, chip	0603-680Ω±5%	2	R320 R327	
01.57.R.2.E1781F	Resistor, chip	0603-1.78KΩ±1%	2	R319 R329	Important to audio test
01.57.R.2.E222J	Resistor, chip	0603-2.2KΩ±5%	4	R304 R312 R364 R380	
01.57.R.2.E332J	Resistor, chip	0603-3.3KΩ±5%	5	R310 R313 R315 R316 R317	
01.57.R.2.E472J	Resistor, chip	0603-4.7KΩ±5%	3	R300 R305 R352	
01.57.R.2.E4752F	Resistor, chip	0603-4.75KΩ 1%	4	R323 R324 R336 R337	Important to audio test
01.57.R.2.E512J	Resistor, chip	0603-5.1KΩ±5%	2	R354 R355	
01.57.R.2.E752F	Resistor, chip	0603-7.5KΩ 1%	2	R326 R332	
01.57.R.2.E103J	Resistor, chip	0603-10KΩ±5%	22	R301 R302 R303 R307 R309 R311 R322 R325 R330 R331 R333 R339 R340 R345 R346 R347 R351 R359 R360 R363 R365 R382	
01.57.R.2.E473J	Resistor, chip	0603-47KΩ±5%	3	R334 R335 R381	
01.57.R.2.E104J	Resistor, chip	0603-100KΩ±5%	1	R349	
01.57.R.3.E222J	Resistor, chip	0805-2.2KΩ±5%	6	(R366) (R368) R(370) (R372) (R374) (R376)	
01.57.R.3.E103J	Resistor, chip	0805-10KΩ±5%	9	(R367) (R369) (R371) (R373) (R375) (R377) (R350) (R361) (R362)	
01.57.R.Y.E270	Zinc oxide varistor, for ESD	AVR-M1608C270MTABB	6	ESD300 ESD301 ESD302 ESD303 ESD304 ESD305	
01.57.R.C.ED151	Fixed carbon film	RT1/4W-150Ω	1	R314	
01.57.R.C.ED102	Fixed carbon film	RT1/4W-1KΩ	2	R306 R308	
01.54.CS.2.E200N	Capacitor,multilayer ceramic, chip	0603-20P NPO±5%/50V	2	C300 C303	
01.54.CS.2.E470N	Capacitor,multilayer ceramic, chip	0603-47P NPO±5%/50V	2	C325 C326	
01.54.CS.3.E101N	Capacitor,multilayer ceramic, chip	0805-100P NPO±5%/50V	2	C306 C314	Important to audio test

HAV06I-1804C02 Component List for EU OutputBoard 1804C					
P/N	Description	Specification	Qty	Location.No.	Note
01.54.CS.2.E101N	Capacitor,multilayer ceramic, chip	0603-100P NPO±5%/50V	2	C317 C318	
01.54.CS.3.E681N	Capacitor,multilayer ceramic, chip	0805-680P NPO±5%/50V	2	C307 C311	Important to audio test
01.54.CS.3.E102N	Capacitor,multilayer ceramic, chip	0805-102 NPO±5%/50V	2	C305 C310	Important to audio test
01.54.CS.2.E104Y	Capacitor,multilayer ceramic, chip	0603-104 Y5V-20+80%/50V	15	C306 C309 C312 C313 C315 C316 C319 C320 C322 C324 C327 C328 C301 C302 C304	
0134CLDE10U16VC	Capacitor, AL.electrolytic	CD110-10UF/16V 5*11	12	EC304 EC305 EC312 EC315 EC316 EC318 EC320 EC322 EC300 EC301 EC306 EC308	
0134CLDE47U16VC	Capacitor, AL.electrolytic	CD110-47UF/16V 5*11	4	EC302 EC303 EC307 EC310	
0134CLDE47U25VC1	Capacitor, AL.electrolytic	CD110-47UF/25V 5*11	2	EC313 EC314	
0134CLDE100U16VC	Capacitor, AL.electrolytic	CD110-100UF/16V 5*11	1	EC323	
0134CLDE220U16VD	Capacitor, AL.electrolytic	CD110-220UF/16V 6.3*12	2	EC309 EC311	
01.13.L.Z.E5A50	Bead, chip	0603-50Ω	8	FB306 FB307 FB300 FB301 FB302 FB303 FB304 FB305	
01.41.D.PS.ELL4148	Diode	LL4148 SMD	9	D300 D301 D302 D303 D304 D305 D306 D307 D308	
01.42.Q.S.E8050	Transistor	KTC8050 SMD	2	Q300 Q302	SOT23
01.42.Q.S.EC8550	Transistor	KTC8550 SMD	3	Q301 Q303 Q311	SOT23
01.42.Q.S.E343	Transistor	DTC343TK SMD	7	Q307 Q308 Q309 Q310 Q304 Q305 Q306	SMT3
01.44.IC.S.E833	IC,NS,Dual Audio Operational Amplifier	LM833M SMD	1	U301	
01.44.IC.S.E8776	IC, Wolfson, Stereo CODEC with 5 Channel I/P Multiplexer	WM8776SEFT SMD	1	U302	Wolfson TQFP48
0144ICSE74HC158	IC, TI, Data selectors	74HC158 SMD	1	U303	(TI or TOSHIBA □SOP16
01.46.IC.E74H04	IC,Philips,hex inverter	74HCU04 SMD	1	U304	TSSOP14
0140CONS10FPC2E030	FPC connector	1.0-14P,in-line package with double side touch ,black)	1	CN301	



### HAV06I-1804C02 Component List for EU OutputBoard 1804C

P/N	Description	Specification	Qty	Location.No.	Note
0140CONS10FPC2E031	FPC connector	1.0-20Pin-line package with double side touch ,black)	1	CN302	
01.40.CON.DPH.E002	connector	PH-10A ,fireproof	1	CN303	
01.40.CON.DPH.E020	connector	PH-4A fireproof	1	CN304	
01.43.E004	Jack, Fiber optic output jack with shutter	GP1FA513RZ	1	J305	
01.40.CON.DCZ.E218	Jack, YuanChang, Coaxial output jack	AV2-8.4-9/PB,orange color with shield	1	J304	
01.40.CON.DCZ.E242	Jack,YuanChang,audio input & output,TV input	AV6-8.4-7/PB ,fireproof,down red and up white	1	J302	
01.40.CON.DCZ.E181	SCART JACK	CS-101 with shield	1	J301	

### HAV06A-1805C01 Component List for HS500 Amplifier Board 1805C

P/N	Description	Specification	Qty	Location.No.	Note
01.57.R.2.E000J	Resistor, chip	0603-0Ω ±5%	4	R405 R406 R407 R408	
01.57.R.2.E151J	Resistor, chip	0603-150Ω±5%	1	R443	
01.57.R.2.E271J	Resistor, chip	0603-270Ω±5%	1	R403	
01.57.R.2.E102J	Resistor, chip	0603-1KΩ±5%	1	R413	
01.57.R.2.E152J	Resistor, chip	0603-1.5KΩ±5%	1	R412	
01.57.R.2.E332J	Resistor, chip	0603-3.3KΩ±5%	3	R404 R411 R416	
01.57.R.2.E103J	Resistor, chip	0603-10KΩ±5%	7	R409 R410 R414 R415 R440 R441 R442	
01.57.R.2.E473J	Resistor, chip	0603-47KΩ±5%	1	R419	
01.57.R.4.E6R2J	Resistor, chip	1206-6.2Ω±5%	10	R430 R431 R432 R433 R434 R435 R436 R437 R428 R429 R422 R423	
01.57.R.4.E100J	Resistor, chip	1206-10Ω±5%	10	R424 R425 R426 R427 R428 R429	
01.57.R.4.E103J	Resistor, chip	1206-10KΩ±5%	2	(R450) (R451)	
01.57.R.3.E102J	Resistor, chip	0805-1KΩ±5%	3	R418 R445 (R454)	
01.57.R.3.E103J	Resistor, chip	0805-10KΩ±5%	3	R446 R444 (R449)	
01.57.R.3.E203J	Resistor, chip	0805-20KΩ±5%	3	(R453) (R455) (R456)	
01.57.R.C.EH470	Fixed carbon film	RT3W-470Ω±5%	1	R452	
01.57.R.R.E010	Resettable Fuse	JK-MSMD010 SMD	1	PTC400	JinKe PTC

HAV06A-1805C01 Component List for HS500 Amplifier Board 1805C					
P/N	Description	Specification	Qty	Location.No.	Note
01.54.CS.2.E270N	Capacitor,multilayer ceramic, chip	0603-27P NPO±5%/50V	1	C407	
01.54.CS.2.E101N	Capacitor,multilayer ceramic, chip	0603-100P NPO±5%/50V	1	C405	
01.54.CS.2.E221N	Capacitor,multilayer ceramic, chip	0603-220P NPO±5%/50V	1	C424	
01.54.CS.2.E102X	Capacitor,multilayer ceramic, chip	0603-102 X7R±10%/50V	1	C404	
01.54.CS.2.E153Y	Capacitor,multilayer ceramic, chip	0603-153 Y5V-20+80%/50V	1	C400	
01.54.CS.2.E104Y	Capacitor,multilayer ceramic, chip	0603-104 Y5V-20+80%/50V	18	C421 C422 C426 C427 C428 C429 C430 C415 C431 C432 C433 C434 C435 C436 C437 C438 C439 C440	
01.54.CS.3.E104Y	Capacitor,multilayer ceramic, chip	0805-104 Y5V+80-20%/50V	38	(C402) (C405) (C406) (C410) (C413) (C414) (C416) (C417) (C418) (C419) (C420) C461 C462 C463 C464 C465 C488 C466 C467 C468 C469 C470 C495 C471 C472 C473 C474 C475 C476 C477 C478 C401 C443 C445 C448 C450 C497	
01.54.CS.3.E102N	Capacitor,multilayer ceramic, chip	0805-102 NPO±5%/50V	10	(C487) (C489) (C490) (C491) (C492) (C493) (C494)	
01.54.CS.2.E122X	Capacitor,multilayer ceramic, chip	0603-122 X7R±10%/50V	1	C425	
01.54.CS.4.E681N	Capacitor,multilayer ceramic, chip	1206-680P NPO±5%/50V	10	C451 C452 C453 C454 C455 C456 C457 C458 C459 C460	
01.33.CT.EC1U50V	Solid Electrolyte Tantalum Chip Capacitor	C-1UF-50V	6	C442 C444 C447 C449 C496 C498	
01.33.CT.EB22U10V	Solid Electrolyte Tantalum Chip Capacitor	B-22UF-10V	2	C412 C423	
01.00.CD.JZ.E474	Box-type metallized polyester film capacitor	474J 100V	5	C479 C480 C481 C482 C483	FaLa in XiaMen
0134CLDE10U25VC1	Capacitor, AL.electrolytic	CD288H-10UF/25V 5*11	1	EC402	

HAV06A-1805C01 Component List for HS500 Amplifier Board 1805C					
P/N	Description	Specification	Qty	Location.No.	Note
0134CLDEH100U16VD	Capacitor, AL.electrolytic	CD288H-100UF/16V 5*12	2	EC403 EC404	
0134CLDE1000U50VH	Capacitor, AL.electrolytic	CD288H-1000UF/50V 13*25	3	EC405 EC406 EC407	
0134CLDE28868U50	Capacitor, AL.electrolytic	CD288H-47UF/25V 5*12	2	EC400 EC401	
0134CLDEH47U25VD	Capacitor, AL.electrolytic	KM680M050E110A	1	EC1	CAPXON
01.13.L.L.D.E082	Inductor	NFE61PT101Z1H9L	1	FL400	2606 Murata
01.13.L.Z.ESB50	Bead, chip	0805-50Ω	2	L401 (L413)	
01.13.L.Z.ESB300	Bead, chip	0805-300Ω	2	L402 L403	
01.13.L.L.D.E127	Magnetic shielding Inductor	983BN-1003-15UH	10	L400 L404 L405 L406 L407 L408 L409 L410 L411 L412	HuaJian in ShanTou □ TOKO □
01.41.D.PS.ELL4148	Diode	LL4148 SMD	4	D400 D401 D402 D403	
01.42.Q.S.E343	Transistor	DTC343TK SMD	1	Q400	SMT3
01.42.Q.S.EC8550	Transistor	KTC8550 SMD	1	Q401	SOT23
01.42.Q.S.E8050	Transistor	KTC8050 SMD	1	(Q402)	SOT23
01.42.Q.S.E1037	Transistor	2SA1037AKR SMD	1	(Q404)	
01.42.Q.S.E5586	Transistor	2SC5866 SMD	1	(Q403)	
01.44.IC.S.E2160	IC, Apogee, Power Device	DDX2160 / STA508 SMD	3	U403 U404 U405	
01.44.IC.S.E8001	IC, Apogee, Digital Audio Processor	DDX8001 / STA308A SMD	1	U402	TQFP64
0144ICSEAAT3522IGY	IC, Analogic, Microprocessor Reset Circuit	AAT3522IGY-3.08-200-T1 SMD	1	U401	SOT-23
01.44.IC.S.E2068	IC, JRC, Pre-amp	NJM2068M SMD	1	U406	SO8
01.44.IC.S.E9161A	IC, RichTek, Voltage Regulator	RT9161A-33CG SMD	1	U400	SMT
01.40.CON.DCZ.E244	connector	Vertical VH four holes four pins(white,upright,fireproof)	1	CN403	
0140CONS10FPC2E024	FPC connector	1.0-16P(upright with double side touch,black)	1	CN401	
01.40.CON.DCZ.E172	Jack,sub output	AV 1-8.4-6C (purple fireproof)	1	J402	
01.40.CON.DCZ.E325	Jack,sub output	AV 1-8.4-6C (up green red grey white blue,down black)	1	J403	
01.40.CON.DPH.E024	Connector	PH-5A ,fireproof	1	CN402	
01.40.CON.DCZ.E203	Headphone jack	CKX-3.5-22	1	J401	
0137PCB2E1805C17	PCB	Amplifier board 1805C-V1.7	1		Two layers

<b>HAV06A-1805C02 Component List for HS300 Amplifier Board 1805C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.2.E000J	Resistor, chip	0603-0Ω ±5%	4	R405 R406 R407 R408	
01.57.R.2.E151J	Resistor, chip	0603-150Ω±5%	1	R443	
01.57.R.2.E271J	Resistor, chip	0603-270Ω±5%	1	R403	
01.57.R.2.E102J	Resistor, chip	0603-1KΩ±5%	1	R413	
01.57.R.2.E152J	Resistor, chip	0603-1.5KΩ±5%	1	R412	
01.57.R.2.E332J	Resistor, chip	0603-3.3KΩ±5%	3	R404 R411 R416	
01.57.R.2.E103J	Resistor, chip	0603-10KΩ±5%	7	R409 R410 R414 R415 R440 R441 R442	
01.57.R.2.E473J	Resistor, chip	0603-47KΩ±5%	1	R419	
01.57.R.4.E6R2J	Resistor, chip	1206-6.2Ω±5%	10	R430 R431 R432 R433 R434 R435 R436 R437 R428 R429 R422 R423	
01.57.R.4.E100J	Resistor, chip	1206-10Ω±5%	10	R424 R425 R426 R427 R428 R429	
01.57.R.4.E103J	Resistor, chip	1206-10KΩ±5%	2	(R450) (R451)	
01.57.R.3.E102J	Resistor, chip	0805-1KΩ±5%	3	R418 R445 (R454)	
01.57.R.3.E103J	Resistor, chip	0805-10KΩ±5%	3	R446 R444 (R449)	
01.57.R.3.E203J	Resistor, chip	0805-20KΩ±5%	3	(R453) (R455) (R456)	
01.57.R.C.EH470	Fixed carbon film	RT3W-470Ω±5%	1	R452	
01.57.R.R.E010	Resettable Fuse	JK-MSMD010 SMD	1	PTC400	JinKe PTC
01.54.CS.2.E270N	Capacitor,multilayer ceramic, chip	0603-27P NPO±5%/50V	1	C407	
01.54.CS.2.E101N	Capacitor,multilayer ceramic, chip	0603-100P NPO±5%/50V	1	C405	
01.54.CS.2.E221N	Capacitor,multilayer ceramic, chip	0603-220P NPO±5%/50V	1	C424	
01.54.CS.2.E102X	Capacitor,multilayer ceramic, chip	0603-102 X7R±10%/50V	1	C404	
01.54.CS.2.E153Y	Capacitor,multilayer ceramic, chip	0603-153 Y5V-20+80%/50V	1	C400	
01.54.CS.2.E104Y	Capacitor,multilayer ceramic, chip	0603-104 Y5V-20+80%/50V	18	C421 C422 C426 C427 C428 C429 C430 C415 C431 C432 C433 C434 C435 C436 C437 C438 C439 C440	

HAV06A-1805C02 Component List for HS300 Amplifier Board 1805C					
P/N	Description	Specification	Qty	Location.No.	Note
01.54.CS.3.E104Y	Capacitor,multilayer ceramic, chip	0805-104 Y5V+80-20%/50V	38	(C402) (C403) (C406) (C410) (C413) (C414) (C416) (C417) (C418) (C419) (C420) C461 C462 C463 C464 C465 C488 C466 C467 C468 C469 C470 C495 C471 C472 C473 C474 C475 C476 C477 C478 C401 C443 C445 C448 C450 C467	
01.54.CS.3.E102N	Capacitor,multilayer ceramic, chip	0805-102 NPO±5%/50V	10	(C487) (C489) (C490) (C491) (C492) (C493) (C494)	
01.54.CS.2.E122X	Capacitor,multilayer ceramic, chip	0603-122 X7R±10%/50V	1	C425	
01.54.CS.4.E681N	Capacitor,multilayer ceramic, chip	1206-680P NPO±5%/50V	10	C451 C452 C453 C454 C455 C456 C457 C458 C459 C460	
01.33.CT.EC1U50V	Solid Electrolyte Tantalum Chip Capacitor	C-1UF-50V	6	C442 C444 C447 C449 C496 C498	
01.33.CT.EB22U10V	Solid Electrolyte Tantalum Chip Capacitor	B-22UF-10V	2	C412 C423	
01.00.CD.JZ.E474	Box-type metallized polyester film capacitor	474J 100V	5	C479 C480 C481 C482 C483	FaLa in XiaMen
0134CLDE10U25VC1	Capacitor, AL.electrolytic	CD288H-10UF/25V 5*11	1	EC402	
0134CLDEH100U16VD	Capacitor, AL.electrolytic	CD288H-100UF/16V 5*12	2	EC403 EC404	
0134CLDE1000U50VH	Capacitor, AL.electrolytic	CD288H-1000UF/50V 13*25	3	EC405 EC406 EC407	
0134CLDE28868U50	Capacitor, AL.electrolytic	CD288H-47UF/25V 5*12	2	EC400 EC401	
0134CLDEH47U25VD	Capacitor, AL.electrolytic	KM680M050E110A	1	EC1	CAPXON
01.13.L.L.D.E082	Inductor	NFE61PT101Z1H9L	1	FL400	2606 Murata
01.13.L.Z.E5B50	Bead, chip	0805-50Ω	2	L401 (L413)	
01.13.L.Z.E5B300	Bead, chip	0805-300Ω	2	L402 L403	
01.13.L.L.D.E127	Magnetic shielding Inductor	983BN-1003-15UH	10	L400 L404 L405 L406 L407 L408 L409 L410 L411 L412	HuaJian in ShanTou □ TOKO □
01.41.D.PS.ELL4148	Diode	LL4148 SMD	4	D400 D401 D402 D403	
01.42.Q.S.E343	Transistor	DTC343TK SMD	1	Q400	SMT3
01.42.Q.S.EC8550	Transistor	KTC8550 SMD	1	Q401	SOT23

### HAV06A-1805C02 Component List for HS300 Amplifier Board 1805C

P/N	Description	Specification	Qty	Location.No.	Note
01.42.Q.S.E8050	Transistor	KTC8050 SMD	1	(Q402)	SOT23
01.42.Q.S.E1037	Transistor	2SA1037AKR SMD	1	(Q404)	
01.42.Q.S.E5586	Transistor	2SC5866 SMD	1	(Q403)	
01.44.IC.S.E2160	IC, Apogee, Power Device	DDX2160 / STA508 SMD	3	U403 U404 U405	
01.44.IC.S.E8001	IC, Apogee, Digital Audio Processor	DDX8001 / STA308A SMD	1	U402	TQFP64
0144ICSEAAT3522IGY	IC, Analogic, Microprocessor Reset Circuit	AAT3522IGY-3.08-200-T1 SMD	1	U401	SOT-23
01.44.IC.S.E2068	IC, JRC, Pre-amp	NJM2068M SMD	1	U406	SO8
01.44.IC.S.E9161A	IC, RichTek, Voltage Regulator	RT9161A-33CG SMD	1	U400	SMT
01.40.CON.DCZ.E244	connector	Vertical VH four holes Two pins(white,upright,fireproof)	1	CN403	
0140CONS10FPC2E024	FPC connector	1.0-16P(upright with double side touch,black)	1	CN401	
01.40.CON.DCZ.E172	Jack,sub output	AVT-8.4-6C (purple fireproof)	1	J402	
01.40.CON.DCZ.E325	Jack,sub output	AVT-8.4-6C (purple fireproof) green red grey white blue,down black)	1	J403	
01.40.CON.DPH.E024	Connector	PH-5A ,fireproof	1	CN402	
01.40.CON.DCZ.E203	Headphone jack	CKX-3.5-22	1	J401	
0137PCB2E1805C17	PCB	Amplifier board 1805C-V1.7	1		Two layers

### HAV06P-1806C01 Component List for HS500 SMPS Board 1806C

P/N	Description	Specification	Qty	Location.No.	Note
01.57.R.3.E4R7J	Resistor, chip	0805-4.7 $\Omega$ ±5%	1	R517	
01.57.R.3.E100J	Resistor, chip	0805-10 $\Omega$ ±5%	1	R529	
01.57.R.3.E220J	Resistor, chip	0805-22 $\Omega$ ±5%	3	R518 R522 R520	
01.57.R.3.E330J	Resistor, chip	0805-33 $\Omega$ ±5%	1	R501	
01.57.R.3.E101J	Resistor, chip	0805-100 $\Omega$ ±5%	1	R515	
01.57.R.3.E221J	Resistor, chip	0805-220 $\Omega$ ±5%	1	R523	
01.57.R.3.E471J	Resistor, chip	0805-470 $\Omega$ ±5%	2	R532 R561	
01.57.R.3.E511J	Resistor, chip	0805-510 $\Omega$ ±5%	1	R556	

<b>HAV06P-1806C01 Component List for HS500 SMPS Board 1806C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.3.E102J	Resistor, chip	0805-1K $\Omega$ ±5%	14	R551 R553 R557 R555 R563 R580 R581 R565 R566 R540 R567 R568 R587 R536	
01.57.R.3.E222J	Resistor, chip	0805-2.2K $\Omega$ ±5%	2	R541 R560	
01.57.R.3.E302F	Resistor, chip	0805-3K $\Omega$ ±1%	2	R552 R559	
01.57.R.3.E362F	Resistor, chip	0805-3.6K $\Omega$ ±1%	1	R558	
01.57.R.3.E472J	Resistor, chip	0805-4.7K $\Omega$ ±5%	9	R516 R519 R521 R547 R548 R550 R562 R585 R589	
01.57.R.3.E4992F	Resistor, chip	0805-4.99K $\Omega$ ±1%	1	R525	
01.57.R.3.E103J	Resistor, chip	0805-10K $\Omega$ ±5%	8	R510 R531 R570 R571 R583 R543 R535 R596	
01.57.R.3.E133J	Resistor, chip	0805-13K±5%	1	R506	
01.57.R.3.E203J	Resistor, chip	0805-20K $\Omega$ ±5%	1	R544	
01.57.R.3.E513J	Resistor, chip	0805-51K±5%	1	R564	
01.57.R.3.E393F	Resistor, chip	0805-39K $\Omega$ ±1%	1	R549	
01.57.R.3.E473J	Resistor, chip	0805-47K $\Omega$ ±5%	2	R588 R546	
01.57.R.3.E6043F	Resistor, chip	0805-60.4K $\Omega$ ±1%	1	R509	
01.57.R.3.E683J	Resistor, chip	0805-68K $\Omega$ ±5%	1	R511	
01.57.R.3.E8253F	Resistor, chip	0805-82.5K $\Omega$ ±1%	1	R569	
01.57.R.3.E104J	Resistor, chip	0805-100K $\Omega$ ±5%	2	R505 R539	
01.57.R.3.E4124F	Resistor, chip	0805-412K $\Omega$ ±1%	1	R526	
01.57.R.3.E564J	Resistor, chip	0805-560K $\Omega$ ±5%	1	R545	
01.57.R.3.E105J	Resistor, chip	0805-1M $\Omega$ ±5%	1	R586	
01.57.R.4.E101J	Resistor, chip	1206-100 $\Omega$ ±5%	2	R597 R598	
01.57.R.4.E103J	Resistor, chip	1206-10K $\Omega$ ±5%	1	R599	
01.57.R.4.E564J	Resistor, chip	1206-560K $\Omega$ ±5%	2	R528 R572	PuTianHeDa
01.57.R.C.ED473	Fixed carbon film	RT1/4W-47K $\Omega$	1	R527	XiaMenGaoMing
01.57.R.J.ED3602F	Cermet Resistor	RJ1/2W-360K $\Omega$	1	R513	
01.57.R.J.ED3902F	Cermet Resistor	RJ1/2W-390K $\Omega$	1	R514	
01.57.R.J.ED3572F	Cermet Resistor	RJ1/4W-357K $\Omega$ ±1%	2	R503 R504	XiaMenGaoMing

<b>HAV06P-1806C01 Component List for HS500 SMPS Board 1806C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.57.R.J.ED2492F	Cermet Resistor	RJ1/4W-249KΩ ±1%	2	R507 R508	XiaMenGaoMing
01.57.R.C.ED102	Fixed carbon film	RT1/4W-1KΩ	1	R573	
01.57.R.C.EF101	Fixed carbon film	RT1W-100Ω	3	R533 R534 R595	XiaMenGaoMing
01.57.R.C.EF104	Fixed carbon film	RT1W-100KΩ	1	R530	XiaMenGaoMing
01.57.R.C.EHR3	Fixed carbon film	RT3W-0.3Ω	3	R574 R502 R524	ChaoZhouSanHuan
01.57.R.Y.E10K	Zinc oxide varistor	10K.471	1	RZ503	
01.57.R.R.E8R210	Thermal resistor	8R210 DIP	2	RZ501 RZ502	ChuangYi
01.57.R.C.40E515	High-Resistance Cermet Resistor	RI40-1/2W-5.1MΩ	2	Two in series at R575	
01.57.R.R.EJK16300	Resettable Fuse	JK16 300	1	RZ504	JinKe PTC
01.54.CS.3.E101N	Capacitor,multilayer ceramic, chip	0805-100P NPO±5%/50V	3	C529 C523 C530	
01.54.CS.3.E151N	Capacitor,multilayer ceramic, chip	0805-150P NPO±5%/50V	1	C509	
01.54.CS.3.E221N	Capacitor,multilayer ceramic, chip	0805-220P NPO±5%/50V	1	C508	
01.54.CS.3.E331N	Capacitor,multilayer ceramic, chip	0805-330P NPO±5%/50V	1	C513	
01.54.CS.3.E471N	Capacitor,multilayer ceramic, chip	0805-470P NPO±5%/50V	1	C507	
01.54.CS.3.E102X	Capacitor,multilayer ceramic, chip	0805-102 X7R ±10%/50V	1	C511	
01.54.CS.3.E152X	Capacitor,multilayer ceramic, chip	0805-152 X7R±10%/50V	1	C510	
01.54.CS.3.E332Y	Capacitor,multilayer ceramic, chip	0805-332 Y5V	1	C527	
01.54.CS.3.E153X	Capacitor,multilayer ceramic, chip	0805-153 X7R±10%/50V	1	C514	
0154CS3E473X100V	Capacitor,multilayer ceramic, chip	0805-473 X7R±10%/100V	2	C517 C528	
01.54.CS.3.E104Y	Capacitor,multilayer ceramic, chip	0805-104 Y5V+80-20%/50V	4	C524 C525 C526 C522	



<b>HAV06P-1806C01 Component List for HS500 SMPS Board 1806C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.54.CS.3.E474Y	Capacitor,multilayer ceramic, chip	0805-474 Y5V+80-20%/50V	3	C504 C506 C536	
0154CS3E105X25V	Capacitor,multilayer ceramic, chip	0805-105 X7R±10%/25V	3	C505 C512 C538	
0135CCE12064U725V	Capacitor,multilayer ceramic, chip	1206-4.7UF-25V	1	C535	
01.54.CS.4.E474	Capacitor,multilayer ceramic, chip	1206-474	1	C534	
0100CDDLE223100V	Dacron terylene condenser	223/100V	1	C533	
0100CDDSE10450V	Monolithic Ceramic Capacitor	104/50V X7R±10% (pin space 5.08)	1	C521	
0100CDGYE334275V	High-voltage metallized polyester film	334/275V X2(pin space15/pin length 4)	1	C502	
0100CDJZE104630V	Metallized capacitor	104/630V	1	C515	
0100CDJZE472630VA	Metallized capacitor	472/630V(pin space10)	1	C518	
0100CDGYE4711KV	High-voltage metallized polyester film	471/1KV	2	C519 C520	
0100CDGYE224275V	High-voltage metallized polyester film	224/275V X2(pin space15/pin length 5.5)	2	C501 C503	
0100CDGYE102400V25	High-voltage metallized polyester film	102/400V(X1) 250V(Y1) (pin space10/pin length 16)	2	CY1 CY2	
0100CDGYE222400V25	High-voltage metallized polyester film	222/400V(X1) 250V(Y1)(pin space10/pin length 16)	2	CY501 CY502	
0100CDJZE47463V	Box-type metallized polyester film capacitor	474/63V	1	C516	
0134CLDE1U50VC1	Capacitor, AL.electrolytic	CD288H-1UF/50V 5*11	2	EC509 EC531	CAPXON
0134CLDE28810U50VD	Capacitor, AL.electrolytic	CD288H-10UF/50V 5*12	2	EC527 EC530	CAPXON
0134CLDEH47U50VD	Capacitor, AL.electrolytic	CD288H-47UF/50V 6.3*12	1	EC503	CAPXON

<b>HAV06P-1806C01 Component List for HS500 SMPS Board 1806C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
0134CLDE288100U25V	Capacitor, AL.electrolytic	CD288H-100UF/25V 6.3*12	5	EC510 EC511 EC514 EC518 EC528	CAPXON
0134CLDEH470U16VD	Capacitor, AL.electrolytic	CD288H-470UF/16V 8*12	2	EC515 EC516	CAPXON
0134CLDE288470U25V	Capacitor, AL.electrolytic	CD288H-470UF/25V 8*14	5	EC513 EC517 EC523 EC504 EC522	CAPXON
01.34.CL.D1000U16V	Capacitor, AL.electrolytic	CD288H-1000UF/16V 10*17	2	EC521 EC525	CAPXON
0134CLDE1000U50VH	Capacitor, AL.electrolytic	CD288H-1000UF/50V 13*25	3	EC505 EC506 EC507	CAPXON
0134CLDE288220U16V	Capacitor, AL.electrolytic	CD288H-2200UF/16V 13*25	2	EC520 EC526	CAPXON
0134CLDE330U450VK	Capacitor, AL.electrolytic	CD294-330UF/450V 35*40	1	EC502	NanTong/FengBing
01.13.L.L.D.E143	step-up inductor	L-ER4201 DIP	1	L501	FuLei/SK
01.13.L.L.D.E144	storage inductor	L-ER3501 DIP	1	L502	FuLei/SK
01.13.L.L.D.E145	Filter inductor	L-100A DIP	1	L503	FuLei/SK
01.13.L.L.D.E141	Filter inductor	L-200A DIP	2	L511 L509	FuLei/SK
01.13.L.L.D.E171	Common Mode Choke	LCL-471A	1	L504	FuLei/SK
01.13.L.L.D.E002	Filter inductor	LH0608-20UH	3	L505 L507 L510	
01.13.L.L.D.E146	EMI Filter inductor	LCL-ET2812 DIP	2	L512 L513	FuLei/SK
01.41.D.PD.EIN4001	Diode	IN4001 DIP	3	D501 D502 D503	
01.41.D.PS.ELL4148	Diode	LL4148 SMD	7	D512 D513 D523 D524 D528 D529 D530	0.5W
01.41.D.PD.EFR104	Diode	FR104 DIP	3	D506 D507 D516	
0141DPDEHER208G	Diode	HER208G DIP,	1	D519	NanJing ChuangRui
01.41.D.PD.EDQ06	Diode	21DQ06 DIP	1	D515	
01.41.D.PD.E21DQ10	Diode	21DQ10 DIP	1	D514	
01.41.D.PD.EIN5819	Diode	IN5819 DIP	1	D525	
01.41.D.PD.E2010DN	Diode,, Fairchild	FYPF2010DN DIP	2	D518 D526	
01.41.D.PD.E308	Diode	HER308 DIP	2	D508 D509	(NanJing ChuangRui)
01.41.D.PD.E30U20S	Diode, Fairchild	FFPF30U20STU DIP	4	D510 D511 D521 D522	
01.41.D.WD.E5V6	Zener diode,DIP	5.6V	1	Z509	

<b>HAV06P-1806C01 Component List for HS500 SMPS Board 1806C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.41.D.WD.E9V1	Zener diode,DIP	9.1V	1	Z508	
01.41.D.WD.E16V	Zener diode,DIP	16V	5	Z502 Z501 Z504 Z506 Z505	
01.41.D.WS.E15V	Zener diode,SMD	15V	2	Z503 Z511	0.5W
01.41.D.PD.E1560	Diode, Fairchild,	ISL9R1560PF2 DIP	1	D504	
0141DPDED10XB60	Diode	D10XB60 DIP	1	DB501	SHINDENGEN
0141DPDEP6KE200A	Diode	P6KE200A DIP	1	Z510	
01.42.Q.S.E2N3904	Transistor	2N3904 SMD	3	Q505 Q507 Q511	SOT23
01.42.Q.S.E2N3906	Transistor	2N3906 SMD	2	Q506 Q509	SOT23
01.44.IC.S.E4835	IC, Anachip, P-channel MOSFET	AF4835 SMD	2	Q502 Q510	
01.44.IC.S.E2302	IC, Anachip, N-channel MOSFET	AF2302 SMD	1	Q508	
01.44.IC.D.E460C	IC,International Rectifier,Power MOSFET	IRFP460C DIP	3	Q501 Q503 Q504	
01.44.IC.D.E278R05	IC, Fairchild, Voltage Regulator	KA278R05CTU DIP	1	U514	Or PQ05RD21
01.44.IC.D.E7913	IC, Fairchild, Voltage Regulator	KA7912 DIP	1	U512	
01.44.IC.D.EBA033	IC, Fairchild, Voltage Regulator	BA033BCO DIP	1	U509	
01.44.IC.D.E78R05	IC, Fairchild, Voltage Regulator	KA78R05STU DIP	1	U508	
01.44.IC.D.E78R12	IC, Fairchild, Voltage Regulator	KA78R12 DIP	1	U507	
01.44.IC.D.EKA431	IC,Fairchild,Programmabl e Shunt Regulator	KA431LZTA 0.5% DIP	2	U511 U513	
01.44.IC.D.E817	IC, Sharp, Photoelectric Coupler	H11A817B DIP	3	U502 U504 U505	
01.44.IC.S.E324	IC,NS,Amplifier	LM324 SMD	1	U506	

<b>HAV06P-1806C01 Component List for HS500 SMPS Board 1806C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.44.IC.S.EL4800	IC,Fairchild,Power Factor Correction and PWM Controller Combo	ML4800 SMD	1	U501	
01.44.IC.D.E07652	IC,Fairchild,Power Switch	FSDM07652RBWDTU DIP	1	U503	
01.40.CON.DCZ.E129	Connector	Vertical VH three holes two pins □white color □upright,fireproof )	1	CN501	
01.40.CON.DCZ.E244	Connector	Vertical VH four holes four pins □white color □upright,fireproof )	1	CN506	
01.40.CON.DTJ.E008	Connector	TJC3-4A ,fireproof	1	CN508	
01.40.CON.DTJ.E011	Connector	TJC3-5A ,fireproof	1	CN505	
01.40.CON.DTJ.E012	Connector	TJC3-6A,fireproof	1	CN503	
01.40.CON.DTJ.E002	Connector	TJC3-13A ,fireproof	1	CN504	
01.40.CON.DCZ.E131	Fuse Holder	BLX-2A	1	F501	Fireproof
01.38.FUSE.D.E5AL	Fuse	T5AL/250V	1	F501	
01.13.L.R.E103	Transformer	BCK-ER2855	1	T502	FuLei/SK
01.13.L.R.E097	Transformer	BCK-EE1325	1	T503	FuLei/SK
01.13.L.R.E104	Transformer	BCK-ER4201	1	T501	FuLei/SK
01.00.FZ.QT.E231	Manganin wires	φ0.8	3	R590 R591 R592	length φ0.8*15MM
01.00.WJ.QT.E041	Three pins metal pad	M4	4	A1 A2 A3 A4	
0137PCB2E1806C48	PCB	SMPS 1806C-V4.8	1		Two layers
01.37.PCB.1.E2916C	PCB	PCB without components 2916C	1		Single layers
01.57.R.3.E4R7J	Resistor, chip	0805-4.7Ω±5%	1	R517	
01.57.R.3.E100J	Resistor, chip	0805-10Ω±5%	1	R529	
01.57.R.3.E220J	Resistor, chip	0805-22Ω±5%	3	R518 R522 R520	
01.57.R.3.E330J	Resistor, chip	0805-33Ω±5%	1	R501	

HAV06P-1806C02 Component List for HS300 SMPS Board 1806C					
P/N	Description	Specification	Qty	Location.No.	Note
01.57.R.3.E101J	Resistor, chip	0805-100Ω±5%	1	R515	
01.57.R.3.E221J	Resistor, chip	0805-220Ω±5%	1	R523	
01.57.R.3.E471J	Resistor, chip	0805-470Ω±5%	2	R532 R561	
01.57.R.3.E511J	Resistor, chip	0805-510Ω±5%	1	R556	
01.57.R.3.E102J	Resistor, chip	0805-1KΩ±5%	14	R557 R558 R559 R560 R563 R580 R581 R565 R566 R540 R567 R568 R587 R526	
01.57.R.3.E222J	Resistor, chip	0805-2.2KΩ±5%	2	R541 R560	
01.57.R.3.E302F	Resistor, chip	0805-3KΩ±1%	2	R552 R559	
01.57.R.3.E362F	Resistor, chip	0805-3.6KΩ±1%	1	R558	
01.57.R.3.E472J	Resistor, chip	0805-4.7KΩ±5%	9	R516 R519 R521 R547 R548 R550 R562 R585 R588	
01.57.R.3.E4992F	Resistor, chip	0805-4.99KΩ±1%	1	R525	
01.57.R.3.E103J	Resistor, chip	0805-10KΩ±5%	8	R510 R531 R570 R571 R583 R543 R535 R596	
01.57.R.3.E133J	Resistor, chip	0805-13K±5%	1	R506	
01.57.R.3.E203J	Resistor, chip	0805-20KΩ±5%	1	R544	
01.57.R.3.E303F	Resistor, chip	0805-30KΩ ±1%	1	R549	
01.57.R.3.E513J	Resistor, chip	0805-51K±5%	1	R564	
01.57.R.3.E473J	Resistor, chip	0805-47KΩ±5%	2	R588 R546	
01.57.R.3.E6043F	Resistor, chip	0805-60.4KΩ ±1%	1	R509	
01.57.R.3.E683J	Resistor, chip	0805-68KΩ±5%	1	R511	
01.57.R.3.E8253F	Resistor, chip	0805-82.5KΩ ±1%	1	R569	
01.57.R.3.E104J	Resistor, chip	0805-100KΩ±5%	2	R505 R539	
01.57.R.3.E4124F	Resistor, chip	0805-412KΩ ±1%	2	R526 R545	
01.57.R.3.E105J	Resistor, chip	0805-1MΩ±5%	1	R586	
01.57.R.4.E101J	Resistor, chip	1206-100Ω±5%	2	R597 R598	
01.57.R.4.E103J	Resistor, chip	1206-10KΩ±5%	1	R599	
01.57.R.4.E564J	Resistor, chip	1206-560KΩ ±5%	2	R528 R572	PuTianHeDa
01.57.R.C.ED473	Fixed carbon film	RT1/4W-47KΩ	1	R527	XiaMenGaoMing
01.57.R.J.ED3602F	Cermet Resistor	RJ1/2W-360KΩ	1	R513	
01.57.R.J.ED3902F	Cermet Resistor	RJ1/2W-390KΩ	2	R514	
01.57.R.J.ED3572F	Cermet Resistor	RJ1/4W-357KΩ ±1%	2	R503 R504	XiaMenGaoMing

### HAV06P-1806C02 Component List for HS300 SMPS Board 1806C

P/N	Description	Specification	Qty	Location.No.	Note
01.57.R.J.ED2492F	Cermet Resistor	RJ1/4W-249KΩ ±1%	2	R507 R508	XiaMenGaoMing
01.57.R.C.ED102	Fixed carbon film	RT1/4W-1KΩ	1	R573	
01.57.R.C.EF101	Fixed carbon film	RT1W-100Ω	3	R533 R534 R595	XiaMenGaoMing
01.57.R.C.EF104	Fixed carbon film	RT1W-100KΩ	1	R530	XiaMenGaoMing
01.57.R.C.EHR3	Fixed carbon film	RT3W-0.3Ω	3	R574 R502 R524	ChaoZhouSanHuan
01.57.R.Y.E10K	Zinc oxide varistor	10K.471	1	RZ503	
01.57.R.R.E8R210	Thermal resistor	8R210 DIP	2	RZ501 RZ502	ChuangYi
01.57.R.C.40E515	High-Resistance Cermet Resistor	RI40-1/2W-5.1MΩ	2	two in series at R575	
01.57.R.R.EJK16300	Resettable Fuse	JK16 300	1	RZ504	JinKe PTC
01.54.CS.3.E101N	Capacitor,multilayer ceramic, chip	0805-100P NPO±5%/50V	3	C529 C523 C530	
01.54.CS.3.E151N	Capacitor,multilayer ceramic, chip	0805-150P NPO±5%/50V	1	C509	
01.54.CS.3.E221N	Capacitor,multilayer ceramic, chip	0805-220P NPO±5%/50V	1	C508	
01.54.CS.3.E331N	Capacitor,multilayer ceramic, chip	0805-330P NPO±5%/50V	1	C513	
01.54.CS.3.E471N	Capacitor,multilayer ceramic, chip	0805-470P NPO±5%/50V	1	C507	
01.54.CS.3.E102X	Capacitor,multilayer ceramic, chip	0805-102 X7R ±10%/50V	1	C511	
01.54.CS.3.E152X	Capacitor,multilayer ceramic, chip	0805-152 X7R±10%/50V	1	C510	
01.54.CS.3.E332Y	Capacitor,multilayer ceramic, chip	0805-332 Y5V	1	C527	
01.54.CS.3.E153X	Capacitor,multilayer ceramic, chip	0805-153 X7R±10%/50V	1	C514	
0154CS3E473X100V	Capacitor,multilayer ceramic, chip	0805-473 X7R±10%/100V	2	C517 C528	
01.54.CS.3.E104Y	Capacitor,multilayer ceramic, chip	0805-104 Y5V+80-20%/50V	4	C524 C525 C526 C522	
01.54.CS.3.E474Y	Capacitor,multilayer ceramic, chip	0805-474 Y5V+80-20%/50V	3	C504 C506 C536	
0154CS3E105X25V	Capacitor,multilayer ceramic, chip	0805-105 X7R±10%/25V	3	C505 C512 C538	

<b>HAV06P-1806C02 Component List for HS300 SMPS Board 1806C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
0135CCE12064U725V	Capacitor,multilayer ceramic, chip	1206-4.7UF-25V	1	C535	
01.54.CS.4.E474	Capacitor,multilayer ceramic, chip	1206-474	1	C534	
0100CDDLE223100V	Dacron terylene condenser	223/100V	1	C533	
0100CDDSE10450V	Monolithic Ceramic Capacitor	104/50V X7R±10% (pin space 5.08)	1	C521	
0100CDGYE334275V	High-voltage metallized polyester film	334/275V X2(pin space15/pin length 4)	1	C502	
0100CDJZE104630V	Metallized capacitor	104/630V	1	C515	
0100CDJZE472630VA	Metallized capacitor	472/630V(pin space10)	1	C518	
0100CDGYE4711KV	High-voltage metallized polyester film	471/1KV	2	C519 C520	
0100CDGYE224275V	High-voltage metallized polyester film	224/275V X2(pin space15/pin length 5.5)	2	C501 C503	
0100CDGYE102400V25	High-voltage metallized polyester film	102/400V(X1) 250V(Y1) (pin space10/pin length 16)	2	CY1 CY2	
0100CDGYE222400V25	High-voltage metallized polyester film	222/400V(X1) 250V(Y1)(pin space10/pin length 16)	2	CY501 CY502	
0100CDJZE47463V	Box-type metallized polyester film capacitor	474/63V	1	C516	
0134CLDE1U50VC1	Capacitor, AL.electrolytic	CD288H-1UF/50V 5*11	2	EC509 EC531	CAPXON
0134CLDE28810U50VD	Capacitor, AL.electrolytic	CD288H-10UF/50V 5*12	2	EC527 EC530	CAPXON
0134CLDEH47U50VD	Capacitor, AL.electrolytic	CD288H-47UF/50V 6.3*12	1	EC503	CAPXON
0134CLDE288100U25V	Capacitor, AL.electrolytic	CD288H-100UF/25V 6.3*12	5	EC510 EC511 EC514 EC518 EC528	CAPXON
0134CLDEH470U16VD	Capacitor, AL.electrolytic	CD288H-470UF/16V 8*12	2	EC515 EC516	CAPXON
0134CLDE288470U25V	Capacitor, AL.electrolytic	CD288H-470UF/25V 8*14	5	EC513 EC517 EC523 EC504 EC522	CAPXON
01.34.CL.D1000U16V	Capacitor, AL.electrolytic	CD288H-1000UF/16V 10*17	2	EC521 EC525	CAPXON
0134CLDE1000U50VH	Capacitor, AL.electrolytic	CD288H-1000UF/50V 13*25	3	EC505 EC506 EC507	CAPXON
0134CLDE288220U16V	Capacitor, AL.electrolytic	CD288H-2200UF/16V 13*25	2	EC520 EC526	CAPXON
0134CLDE220U450VK	Capacitor, AL.electrolytic	CD294-220UF/450V 30*40	1	EC502	NanTong/FengBing
01.13.L.L.D.E143	step-up inductor	L-ER4201 DIP	1	L501	FuLei/SK

<b>HAV06P-1806C02 Component List for HS300 SMPS Board 1806C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.13.L.L.D.E144	storage inductor	L-ER3501 DIP	1	L502	FuLei/SK
01.13.L.L.D.E145	Filter inductor	L-100A DIP	1	L503	FuLei/SK
01.13.L.L.D.E141	Filter inductor	L-200A DIP	2	L511 L509	FuLei/SK
01.13.L.L.D.E171	Common Mode Choke	LCL-471A	1	L504	FuLei/SK
01.13.L.L.D.E002	Filter inductor	LH0608-20UH	3	L505 L507 L510	
01.13.L.L.D.E146	EMI Filter inductor	LCL-ET2812 DIP	2	L512 L513	FuLei/SK
01.41.D.PD.EIN4001	Diode	IN4001 DIP	3	D501 D502 D503	
01.41.D.PS.ELL4148	Diode	LL4148 SMD	7	D512 D513 D523 D524 D528 D529 D530	0.5W
01.41.D.PD.EFR104	Diode	FR104 DIP	3	D506 D507 D516	
0141DPDEHER208G	Diode	HER208G DIP	1	D519	NanJing ChuangRui
01.41.D.PD.EDQ06	Diode	21DQ06 DIP	1	D515	
01.41.D.PD.E21DQ10	Diode	21DQ10 DIP	1	D514	
01.41.D.PD.EIN5819	Diode	IN5819 DIP	1	D525	
01.41.D.PD.E2010DN	Diode, Fairchild	FYPF2010DN DIP	2	D518 D526	
01.41.D.PD.E308	Diode	HER308 DIP	2	D508 D509	NanJing ChuangRui
01.41.D.PD.E30U20S	Diode, Fairchild	FFPF30U20STU DIP	4	D510 D511 D521 D522	
01.41.D.WD.E5V6	Zener diode,DIP	5.6V	1	Z509	
01.41.D.WD.E9V1	Zener diode,DIP	9.1V	1	Z508	
01.41.D.WD.E16V	Zener diode,DIP	16V	5	Z502 Z501 Z504 Z506 Z505	
01.41.D.WS.E15V	Zener diode,SMD	15V	2	Z503 Z511	0.5W
01.41.D.PD.E1560	Diode, Fairchild	ISL9R1560PF2 DIP	1	D504	
0141DPDED10XB60	Diode	D10XB60 DIP	1	DB501	SHINDENGEN
0141DPDEP6KE200A	Diode	P6KE200A DIP	1	Z510	
01.42.Q.S.E2N3904	Transistor	2N3904 SMD	3	Q505 Q507 Q511	SOT23
01.42.Q.S.E2N3906	Transistor	2N3906 SMD	2	Q506 Q509	SOT23
01.44.IC.S.E4835	IC, Anachip, P-channel MOSFET	AF4835 SMD	2	Q502 Q510	
01.44.IC.S.E2302	IC, Anachip, N-channel MOSFET	AF2302 SMD	1	Q508	
01.44.IC.D.E460C	IC, Fairchild, Power MOSFET	IRFP460C DIP	3	Q501 Q503 Q504	
01.44.IC.D.E278R05	IC, Fairchild, Voltage Regulator	KA278R05CTU DIP	1	U514	Or PQ05RD21



<b>HAV06P-1806C02 Component List for HS300 SMPS Board 1806C</b>					
<b>P/N</b>	<b>Description</b>	<b>Specification</b>	<b>Qty</b>	<b>Location.No.</b>	<b>Note</b>
01.44.IC.D.E7913	IC, Fairchild, Voltage Regulator	KA7912 DIP	1	U512	
01.44.IC.D.EBA033	IC, Fairchild, Voltage Regulator	BA033BCO DIP	1	U509	
01.44.IC.D.E78R05	IC, Fairchild, Voltage Regulator	KA78R05STU DIP	1	U508	
01.44.IC.D.E78R12	IC, Fairchild, Voltage Regulator	KA78R12 DIP	1	U507	
01.44.IC.D.EKA431	IC, Fairchild, Programmable Shunt Regulator	KA431LZTA 0.5% DIP	2	U511 U513	
01.44.IC.D.E817	IC, Sharp, Photoelectric Coupler	H11A817B DIP	3	U502 U504 U505	
01.44.IC.S.E324	IC, NS, Amplifier	LM324 SMD	1	U506	
01.44.IC.S.EL4800	IC, Fairchild, Power Factor Correction and PWM Controller Combo	ML4800 SMD	1	U501	
01.44.IC.D.E07652	IC, Fairchild, Power Switch	FSDM07652RBWDTU DIP	1	U503	
01.40.CON.DCZ.E129	Connector	Vertical VH three holes two pins □ white color □ upright, fireproof )	2	CN501 CN506	
01.40.CON.DTJ.E008	Connector	TJC3-4A , fireproof	1	CN508	
01.40.CON.DTJ.E011	Connector	TJC3-5A , fireproof	1	CN505	
01.40.CON.DTJ.E012	Connector	TJC3-6A , fireproof	1	CN503	
01.40.CON.DTJ.E002	Connector	TJC3-13A , fireproof	1	CN504	
01.40.CON.DCZ.E131	Fuse Holder	BLX-2A	1	F501	Fireproof
0138FUSEDE315AL	Fuse	T3.15AL/250V	1	F501	
01.13.L.R.E103	Transformer	BCK-ER2855	1	T502	FuLei/SK
01.13.L.R.E097	Transformer	BCK-EE1325	1	T503	FuLei/SK
01.13.L.R.E104	Transformer	BCK-ER4201	1	T501	FuLei/SK
01.00.FZ.QT.E231	Manganin wires	φ0.8	2	R591 R592	length φ0.8*15MM
01.00.WJ.QT.E041	Three pins metal pad	M4	4	A1 A2 A3 A4	
0137PCB2E1806C48	PCB	SMPS 1806C-V4.8	1		Two layers
01.37.PCB.1.E2916C	PCB	PCB without components 2916C	1		Single layer

### HAV06P-1806C02 Component List for HS300 SMPS Board 1806C

P/N	Description	Specification	Qty	Location.No.	Note
01.57.R.3.E000J	Resistor, chip	0805-0Ω ±5%	2	(R645) (R646)	
01.57.R.3.E101J	Resistor, chip	0805-100Ω±5%	2	(R606) (R607)	
01.57.R.3.E471J	Resistor, chip	0805-470Ω±5%	1	(R605)	
01.57.R.3.E472J	Resistor, chip	0805-4.7KΩ±5%	6	(R601) (R603) (R604) (R611) (R612) (R613)	

### HAV06K-1819C01 Component List for Front Panel Display Board 1819C

P/N	Description	Specification	Qty	Location.No.	Note
01.57.R.3.E103J	Resistor, chip	0805-10KΩ±5%	1	(R637)	
01.57.R.3.E153J	Resistor, chip	0805-15KΩ±5%	1	(R602)	
01.57.R.3.E203J	Resistor, chip	0805-20KΩ±5%	1	(R636)	
01.57.R.4.E301J	Resistor, chip	1206-300Ω±5%	3	(R649) (R650) (R651)	
01.57.R.Y.E270	Zinc oxide varistor, for ESD	AVR-M1608C270MTABB	1	(ESD601)	
01.54.CS.3.E220N	Capacitor,multilayer ceramic, chip	0805-22P NPO±5%/50V	2	(C604) (C605)	
01.54.CS.3.E300N	Capacitor,multilayer ceramic, chip	0805-30P NPO±5%/50V	1	(C620)	
01.54.CS.3.E560N	Capacitor,multilayer ceramic, chip	0805-56P NPO±5%/50V	2	(C611) (C612)	
01.54.CS.3.E473X	Capacitor,multilayer ceramic, chip	0805-473 X7R±10%/50V	2	(C618) (C626)	
01.54.CS.3.E104Y	Capacitor,multilayer ceramic, chip	0805-104 Y5V+80-20%/50V	9	(C606) (C607) (C608) (C627) (C628) (C629) (C630) (C633) (C635)	
01.54.CS.3.E225Y	Capacitor,multilayer ceramic, chip	0805-225 Y5V-20+80%/16V	2	(C603) (C619)	
0134CLDE10U16VB	Capacitor, AL.electrolytic	CD11X-10UF/16V 4*7	2	EC616 EC617	
0134CLDE47U16VB	Capacitor, AL.electrolytic	CD11X-47UF/16V 5*7	2	EC601 EC620	
0134CLDEX100U16VB	Capacitor, AL.electrolytic	CD11X-100UF/16V 6.3*7	1	EC602	
01.41.D.PS.ELL4148	Diode	LL4148 SMD	2	(D601) (D605)	
01.13.L.Z.ESB50	Bead, chip	0805-50Ω	3	(FB601) (FB602) (FB603)	
01.00.JZ.E04000	Fundamental. Oscillator	4.000MHZ-49S-22P	1	Y601	
01.44.IC.D.E38B17	IR receiver	HL38B17(IR receiver)DIP	1	IR601	
01.44.IC.S.E75710	IC,VFD driver	LC75710NE SMD	1	(U604)	QFP64E

### HAV06K-1819C01 Component List for Front Panel Display Board 1819C

P/N	Description	Specification	Qty	Location.No.	Note
01.44.IC.S.E0514	IC,Semtech ,ESD protection device	RClamp0514M SMD	1	(U602)	Semtech MSOP-10L
01.44.IC.D.E16C56A	IC, Microchip, MCU	PIC16C56A-04/P	1	U601	Burn-in firmware
01.16.E1303F	VFD	VFD22-1303F	1	VFD601	JingDongFang In ZheJiang
01.40.CON.DCZ.E219	Headphone Jack	CKX-3.5-12	1	J602	YuanChang
01.40.CON.DCZ.E217	USB Jack	USB-A-05 □□	1	J601	BaiChuangHe
01.40.CON.DPH.E020	Connector	PH-4A, fireproof	1	CN605	
01.40.CON.DPH.E024	Connector	PH-5A , fireproof	1	CN603	
01.40.CON.DPH.E028	Connector	PH-6A, fireproof	1	CN602	
01.40.CON.DPH.E032	Connector	PH-7A , fireproof	1	CN606	
01.40.CON.DPH.E038	Connector	PH-9A, fireproof	1	CN611	
0140CONS13FPC2E020	FPC double line connector	1.25-18P,in-line package with single side touch ,white	1	CN601	

### HAV06K-1820C01 Component List for Front Panel Volume Board 1820C

P/N	Description	Specification	Qty	Location.No.	Note
01.57.R.3.E101J	Resistor, chip	0805-100Ω±5%	2	(R638) (R641)	
01.57.R.3.E181J	Resistor, chip	0805-180Ω±5%	4	(R622) (R623) (R624) (R625)	
01.57.R.3.E222J	Resistor, chip	0805-2.2KΩ±5%	1	(R644)	
01.57.R.3.E472J	Resistor, chip	0805-4.7KΩ±5%	2	(R617) (R618)	
01.57.R.3.E103J	Resistor, chip	0805-10KΩ±5%	3	(R640) (R642) (R643)	
01.57.R.3.E104J	Resistor, chip	0805-100KΩ±5%	1	(R639)	
01.57.R.4.E153J	Resistor, chip	1206-15KΩ±5%	3	(R652) (R653) (R654)	
01.54.CS.3.E821N	Capacitor,multilayer ceramic, chip	0805-820P NPO±5%/50V	2	(C601) (C602)	
01.54.CS.3.E123X	Capacitor,multilayer ceramic, chip	0805-123 X7R±10%/50V	1	(C625)	
01.54.CS.3.E104Y	Capacitor,multilayer ceramic, chip	0805-104 Y5V+80-20%/50V	1	(C614)	
01.54.CS.3.E105Y	Capacitor,multilayer ceramic, chip	0805-105 Y5V-20+80%/16V	1	(C624)	
0134CLDE47U16VB	Capacitor, AL.electrolytic	CD11X-47UF/16V 5*7	1	EC603	

### HAV06K-1820C01 Component List for Front Panel Volume Board 1820C

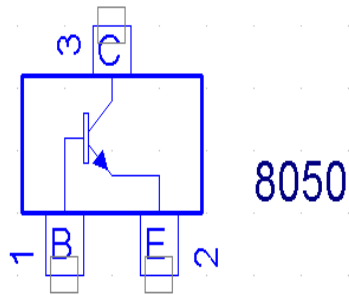
P/N	Description	Specification	Qty	Location.No.	Note
0134CLDE47U50VCD	Capacitor, AL.electrolytic	CD110-47UF/50V 6.3*12	11	EC605 EC606 EC607 EC608 EC609 EC610 EC611 EC612 EC613 EC614 EC615	
01.41.D.PS.ELL4148	Diode	LL4148 SMD	9	(D606) (D607) (D608) (D609) (D610) (D611) (D612) (D613) (D614)	
01.42.Q.S.EC8550	Transistor	KTC8550 SMD	2	(Q604) (Q605)	SOT23
01.41.D.WD.E6V2	Zener Diode,DIP	6.2V	1	DZ601	
01.36.VR.E20K	Volume encoder ,pulse	ED1612-24-24-HC-F20(2)	1	W601	ChangTaiEr
0141DFDEHZFBA65018	LED,blue color	HZFBA65018CP $\phi$ 5 DIP	4	LED603 LED604 LED605 LED606	High light blue and astigmatism
01.44.IC.S.E9022	IC, NS, Vacuum Fluorescent Display Filament Driver	LM9022 SMD	1	(U605)	
01.40.CON.DPH.E038	Connector	PH-9A ,fireproof	1	CN609	

### HAV06K-1822C01 Component List for Front Panel Keyboard 1822C

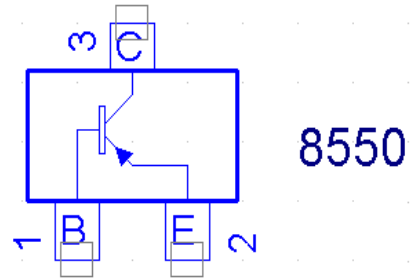
P/N	Description	Specification	Qty	Location.No.	Note
01.57.R.3.E201J	Resistor, chip	0805-200 $\Omega$ $\pm$ 5%	2	(R614) (R647)	
01.57.R.3.E511J	Resistor, chip	0805-510 $\Omega$ $\pm$ 5%	2	(R615) (R648)	
01.57.R.3.E472J	Resistor, chip	0805-4.7K $\Omega$ $\pm$ 5%	2	(R609) (R610)	
01.54.CS.3.E104Y	Capacitor,multilayer ceramic, chip	0805-104 Y5V+80-20%/50V	1	(C634)	
01.41.D.PS.ELL4148	Diode	LL4148 SMD	2	(D602) (D603)	SMD
01.42.Q.S.E8050	Transistor	KTC8050 SMD	1	(Q602)	SOT23
01.42.Q.S.EC8550	Transistor	KTC8550 SMD	1	(Q603)	SOT23
01.39.SW.QC.ED665	Touch switch	6*6*5	2	K602 K601	
01.41.D.FD.E503	LED,blue&orange color	HFT503CPB0(high light LED with two colors )	2	LED601 LED602	
01.40.CON.DPH.E060	Connector	PH-7A ,fireproof,lie-down	1	CN607	

## Pinouts For HS300 & HS500

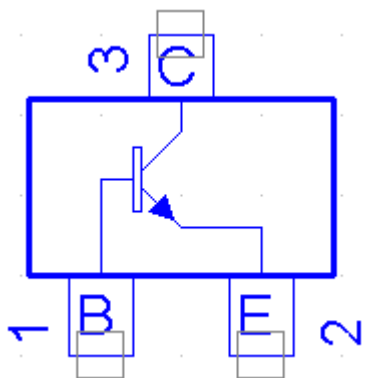
8050, NPN Transistor, SMD



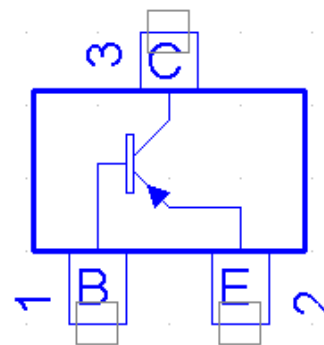
8550, PNP Transistor, SMD



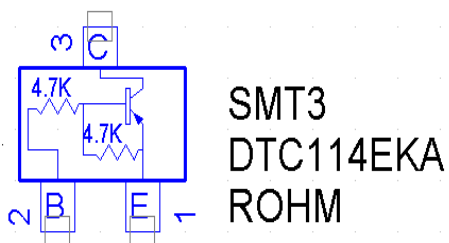
2N3904, NPN Transistor, SMD



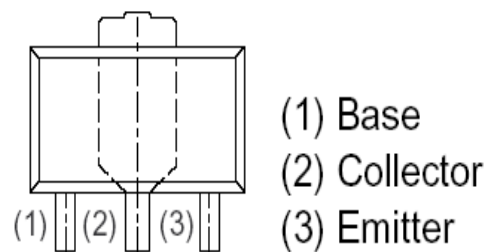
2N3906, PNP Transistor, SMD



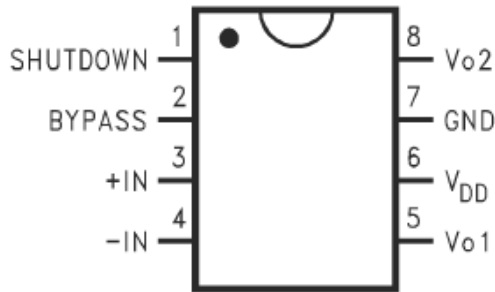
DTC343TK, NPN Transistor, SMD



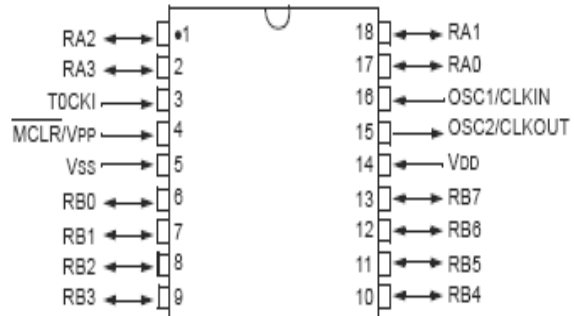
2SB1132 ,Medium Power Transistor, SMD



LM9022, Vacuum Fluorescent  
Display Filament Drive, SMD

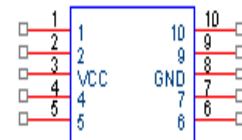
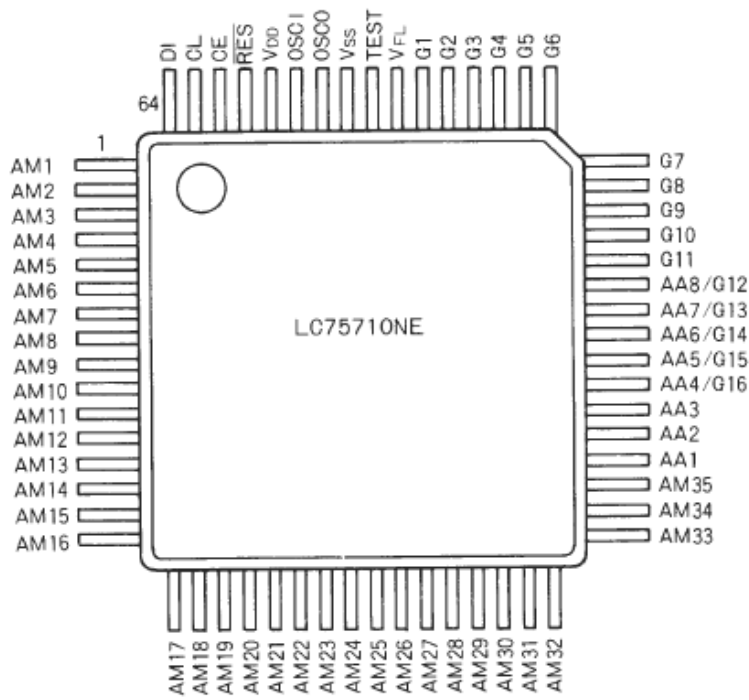


PIC16C56A, MCU, DIP



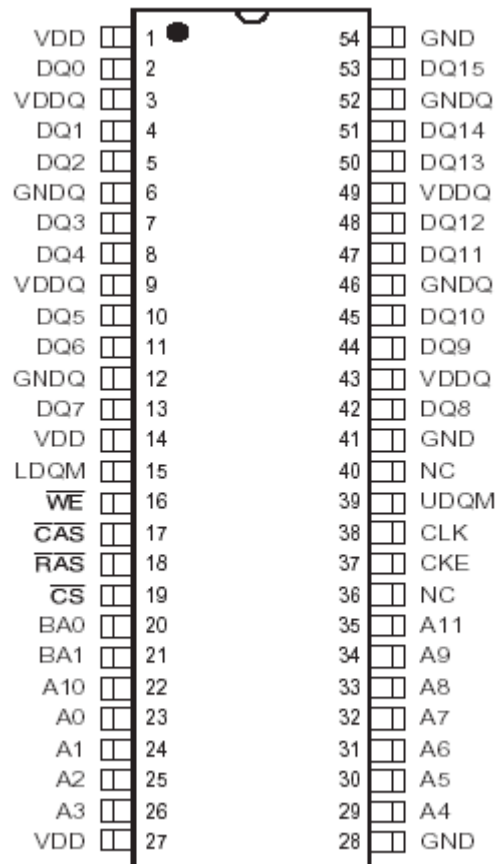
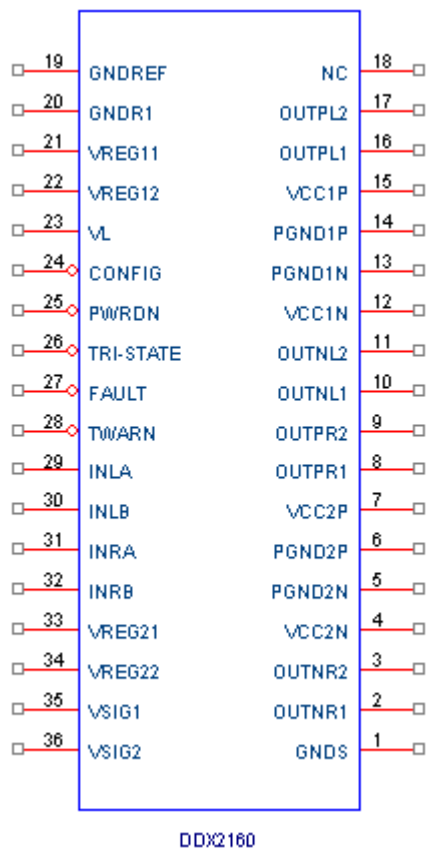
LC75710NE, VFD driver, SMD

RCLamp0514M ,  
ESD Element, SMD



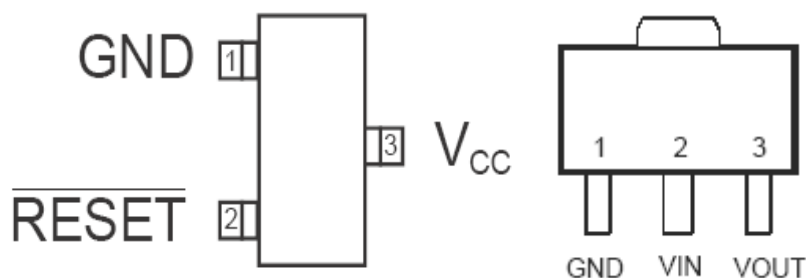
DDX2160, Power Device, SMD

IS42S16400B-6T, SDRAM, SMD

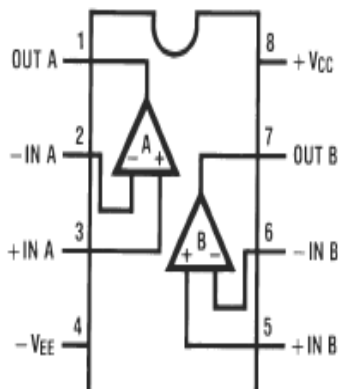


AAT3522IGY-3.08,  
Microprocessor Reset Circuit, SMD

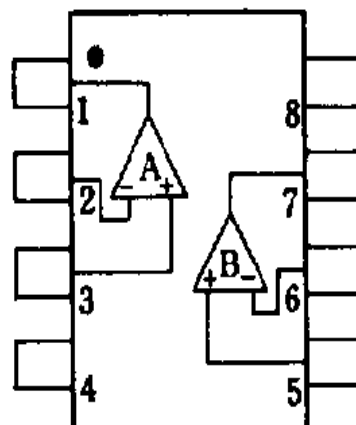
RT9161/A-33, Voltage Regulator, SMD



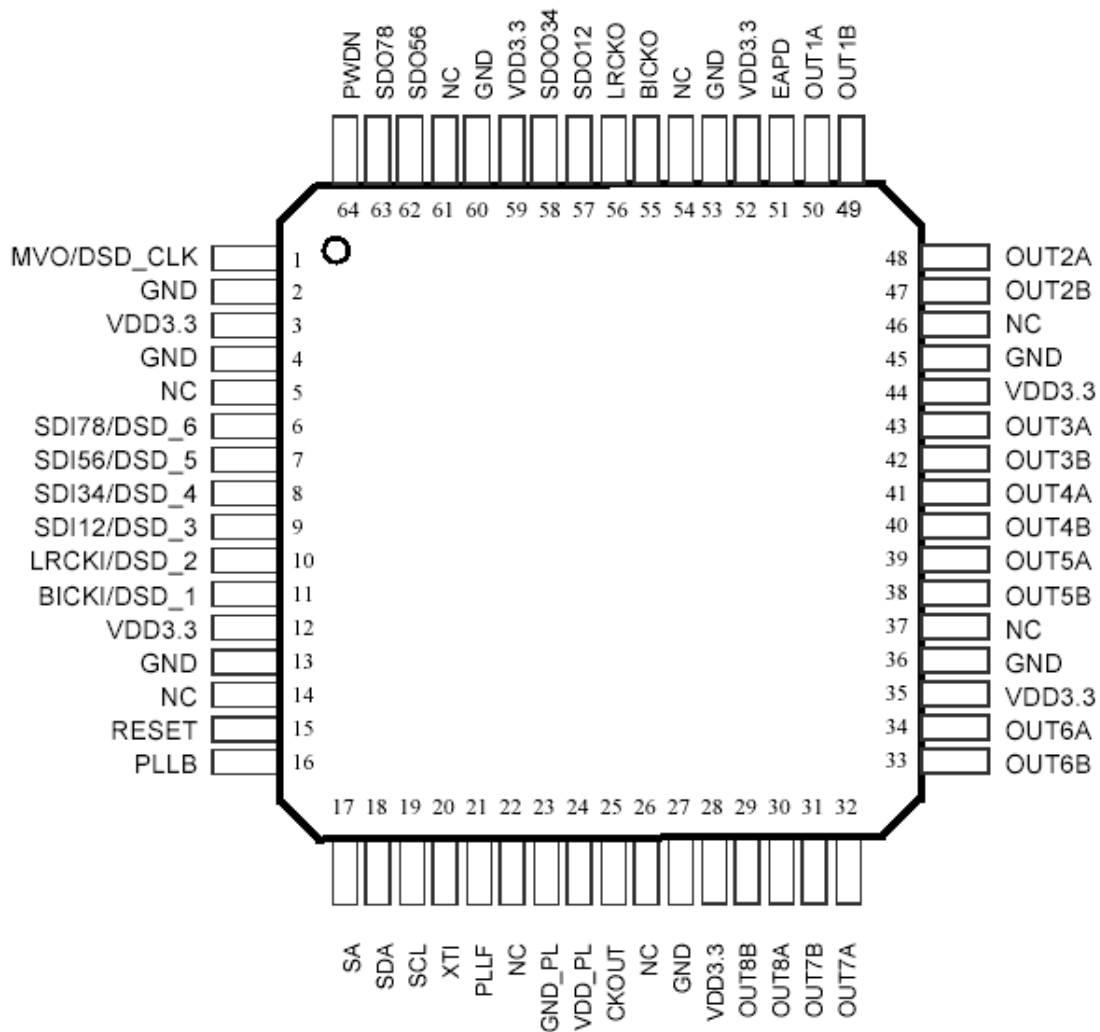
LM833M, pre-amp, SMD



NJM2068M, pre-amp, SMD

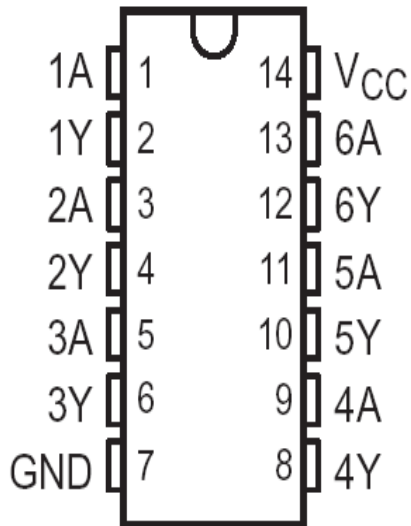


DDX8001, Digital Audio Processor, SMD

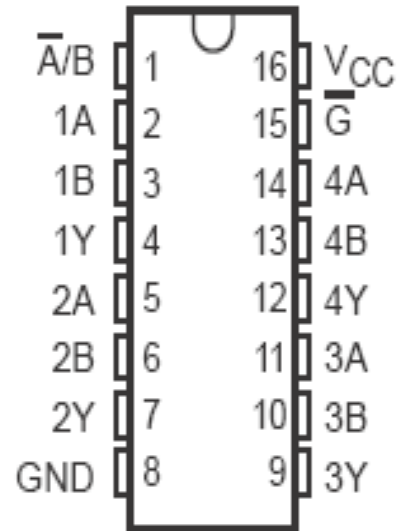




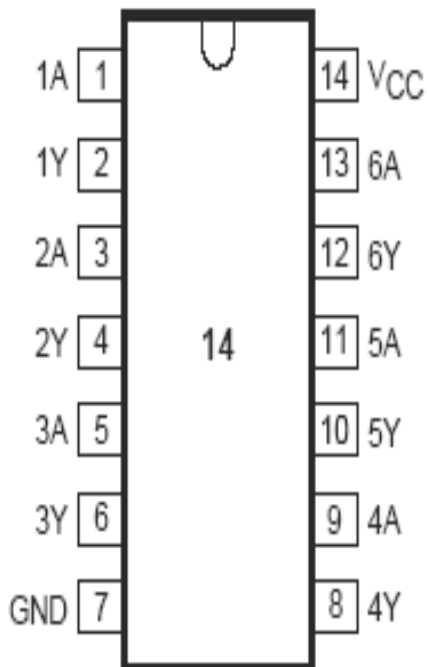
74HCU04, Hex inverter, SMD



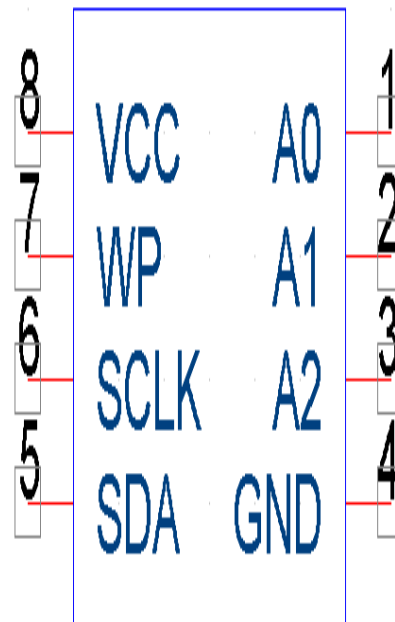
74HC158 ,data selectors, SMD



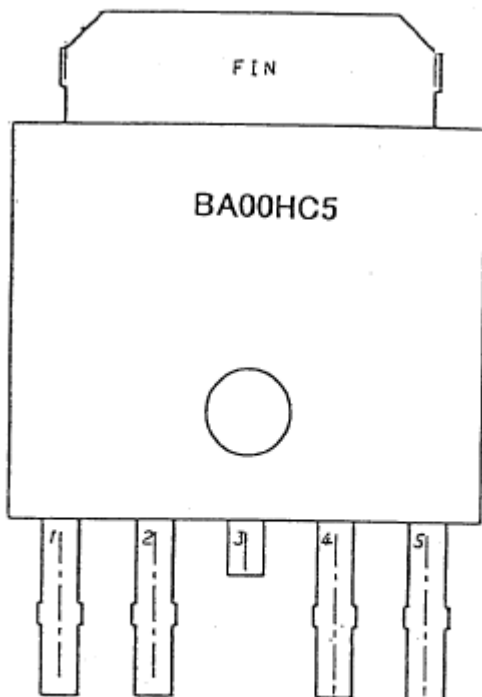
74HCT14, Hex inverting Schmitt trigger, SMD



AT24C64, EEPROM, SMD

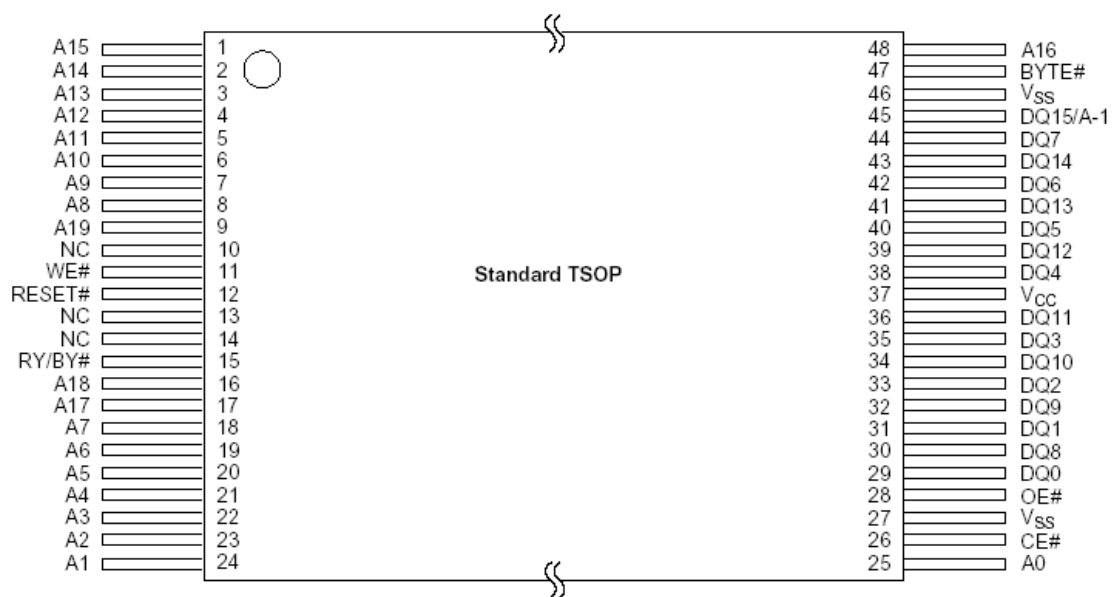


BA00HC5FP, Lower Power Device , SMD

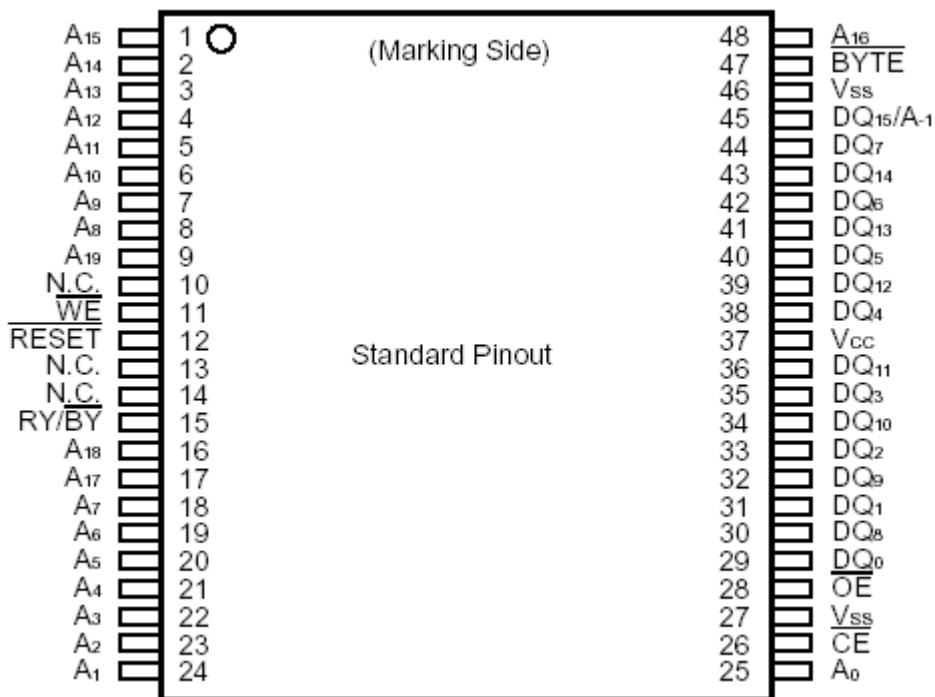


- |       |   |      |       |   |     |
|-------|---|------|-------|---|-----|
| 1 Pin | : | ADJ  | 4 Pin | : | Vo  |
| 2 Pin | : | PVcc | 5 Pin | : | Vcc |
| 3 Pin | : | N.C. | FIN   | : | GND |

AM29LV160DB-90EC, flash, SMD

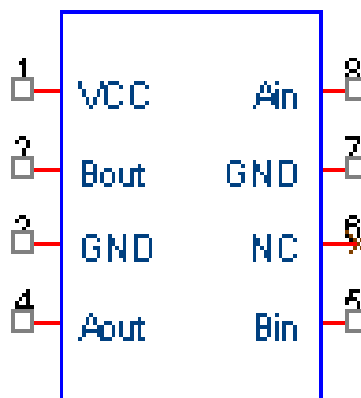
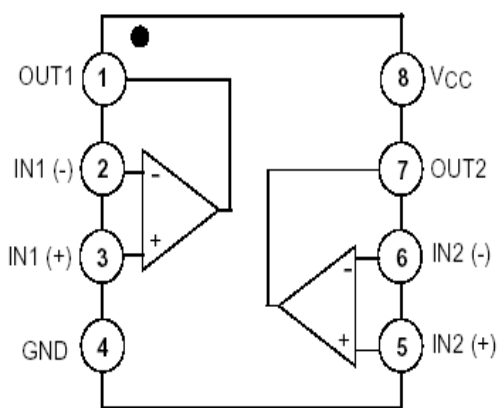


MBM29LV160BE-70P, flash, SMD



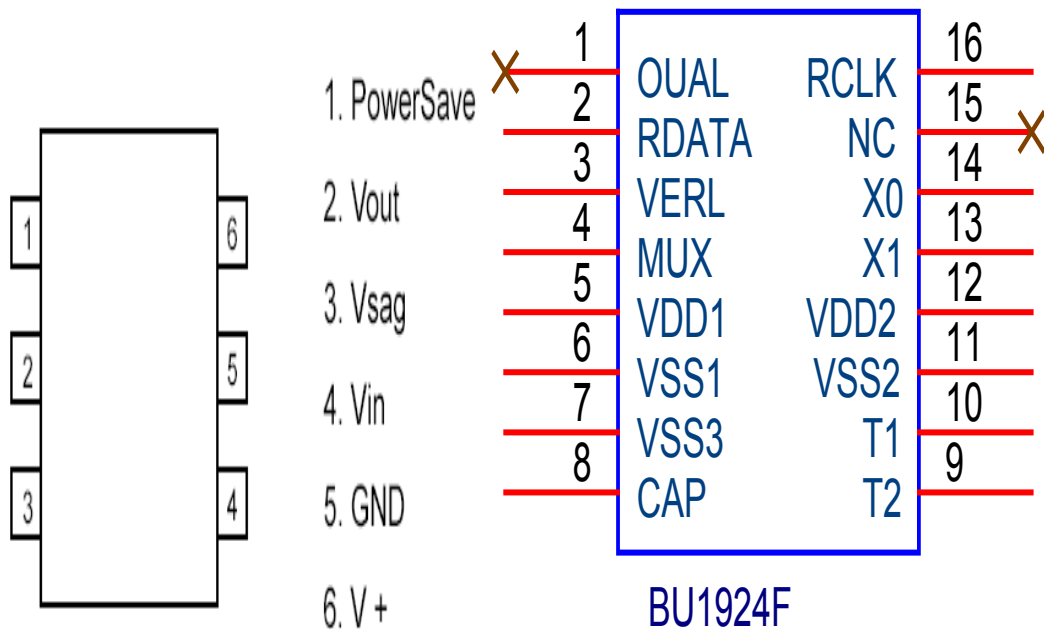
LM358, Dual Operational Amplifier, SMD

BA6028F, motor driver, SMD



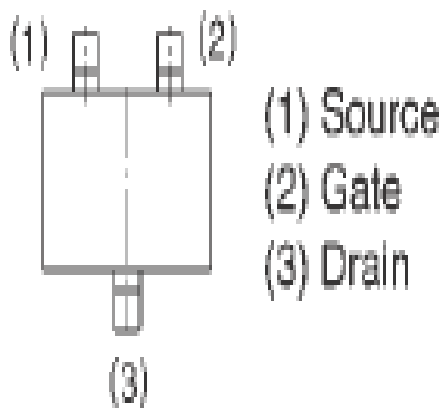
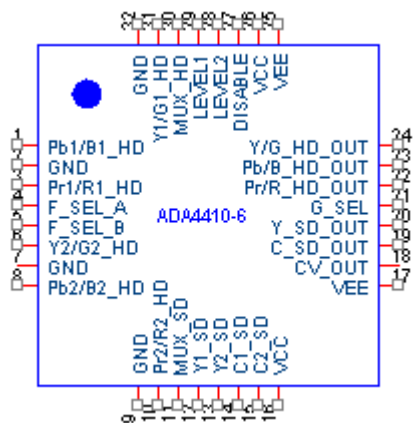
NJM2561F1, LOW VOLTAGE VIDEO AMPLIFIER ,SMD

BU1924, RDS decoder, SMD

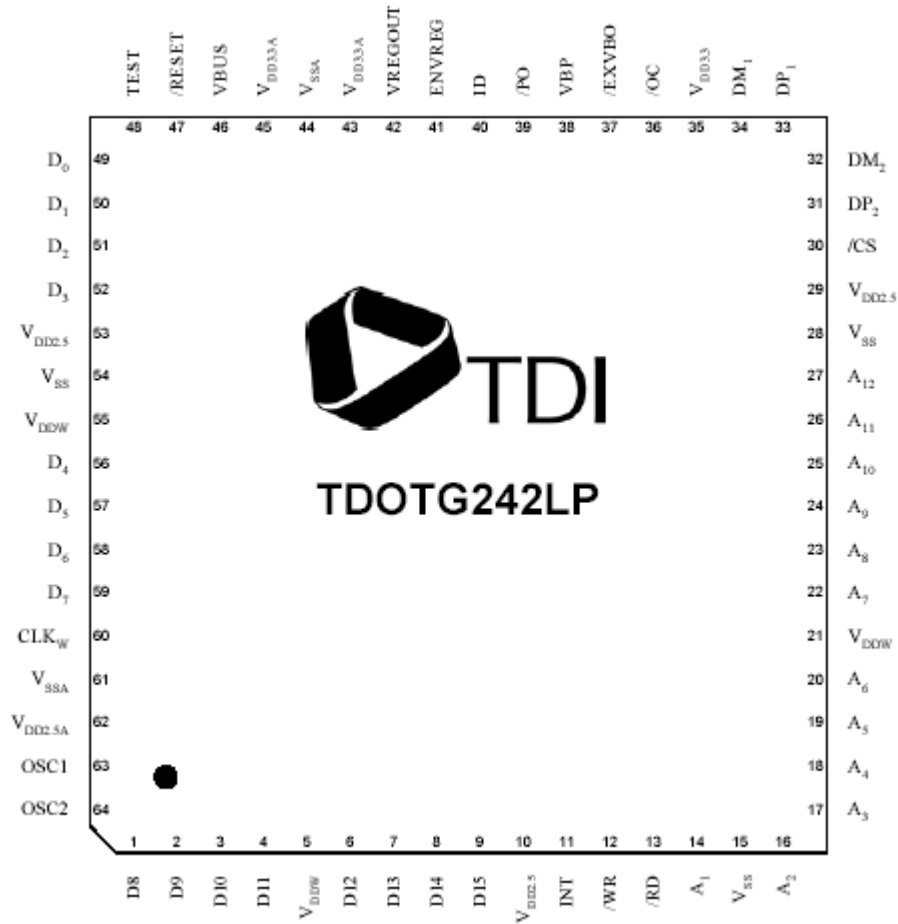


ADA4410-6, Video Buffer, SMD

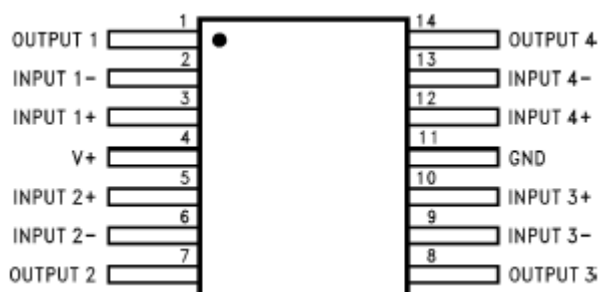
2SK3018, Silicon N-channel MOSFET, SMD



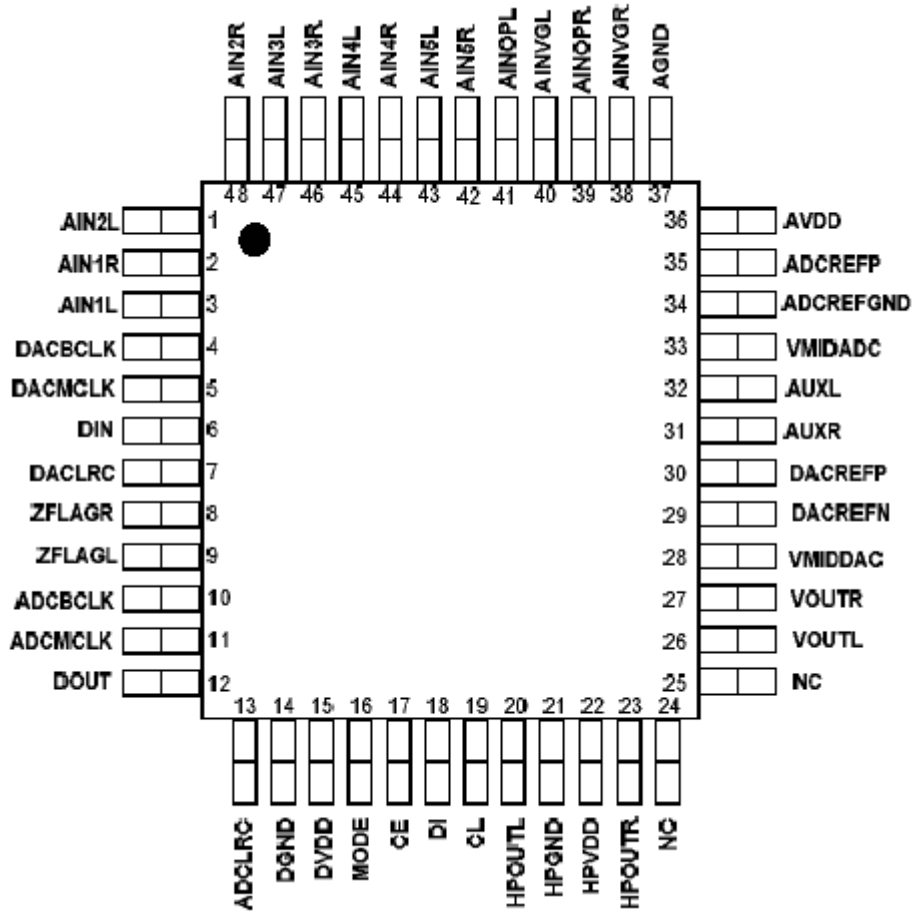
TDOTG242LP ,USB decoder, SMD



LM324, Dual Operational Amplifier, SMD



WM8776SEFT ,Audio ADC & DAC, SMD

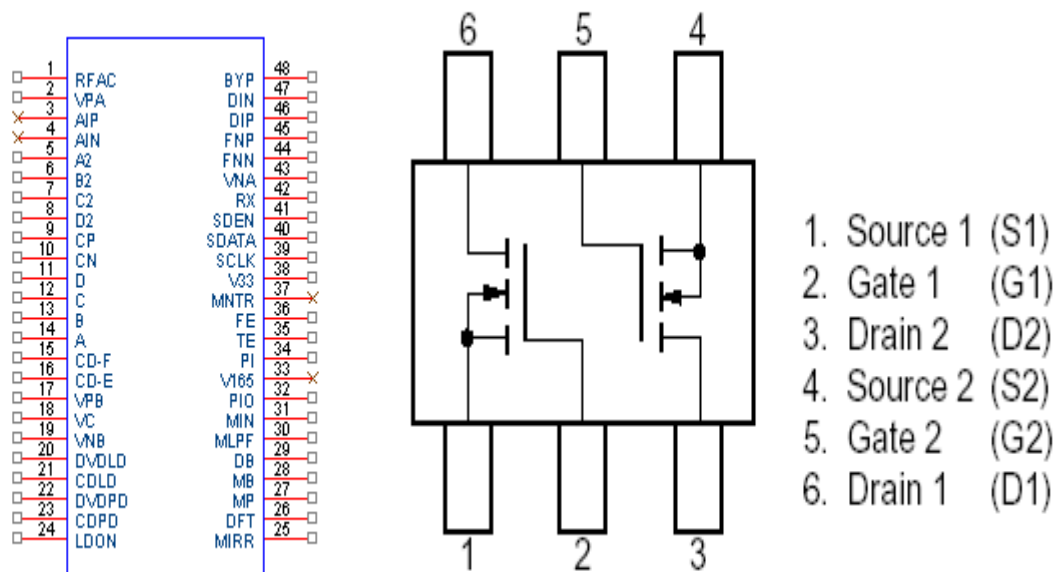


XC9536XL , High Performance CPLD, SMD



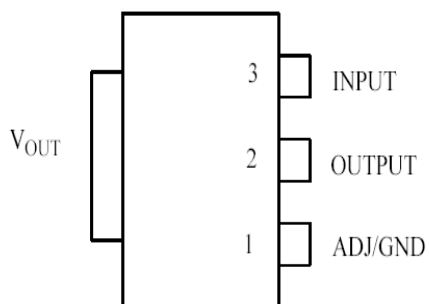
AML3501,DVD/CD RF processor, SMD

UPA672T , N-channel MOSFET , SMD



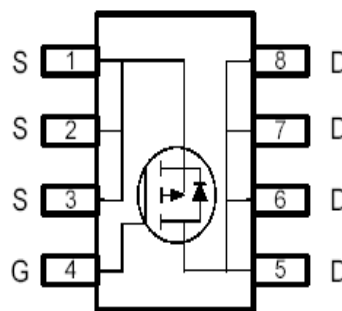
AZ1117H-(1.8 &3.3 &5.0)

Low Dropout linear regulator ,SMD

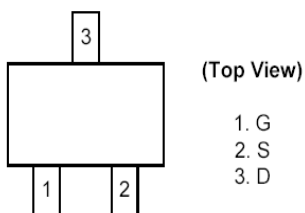


AF4835

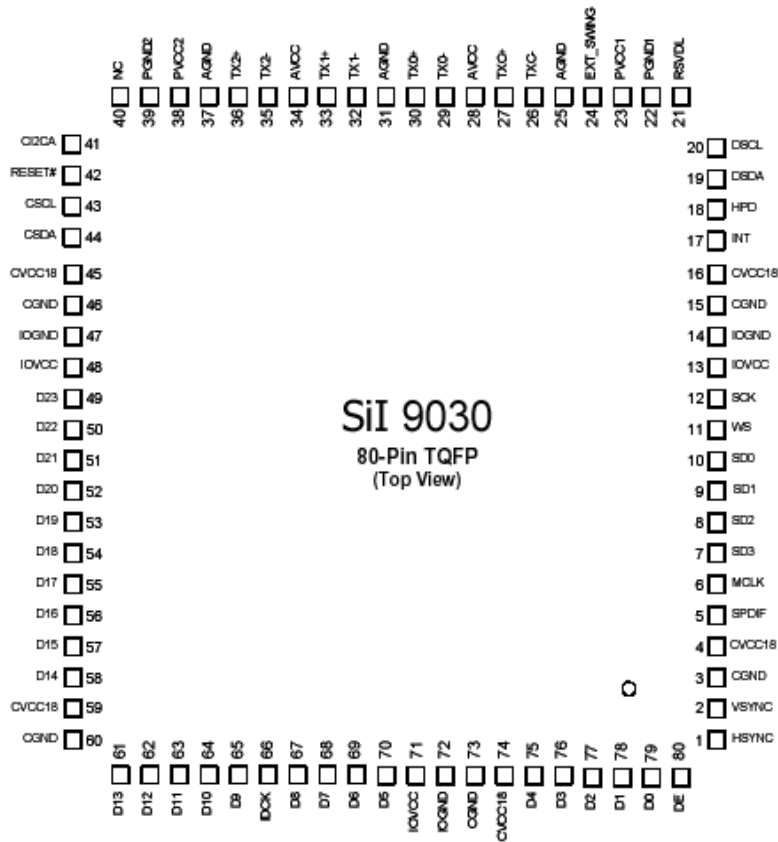
P-channel power MOSFET, SMD



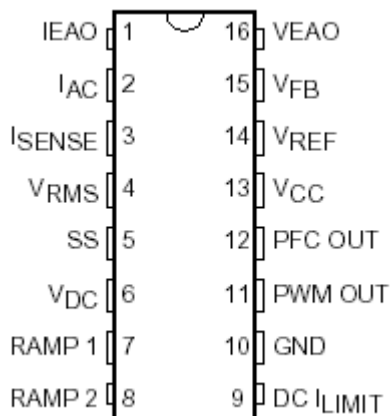
AF2302, N-channel MOSFET , SMD



SiI9030CTU , DMI panelLink cinema transmitter, SMD

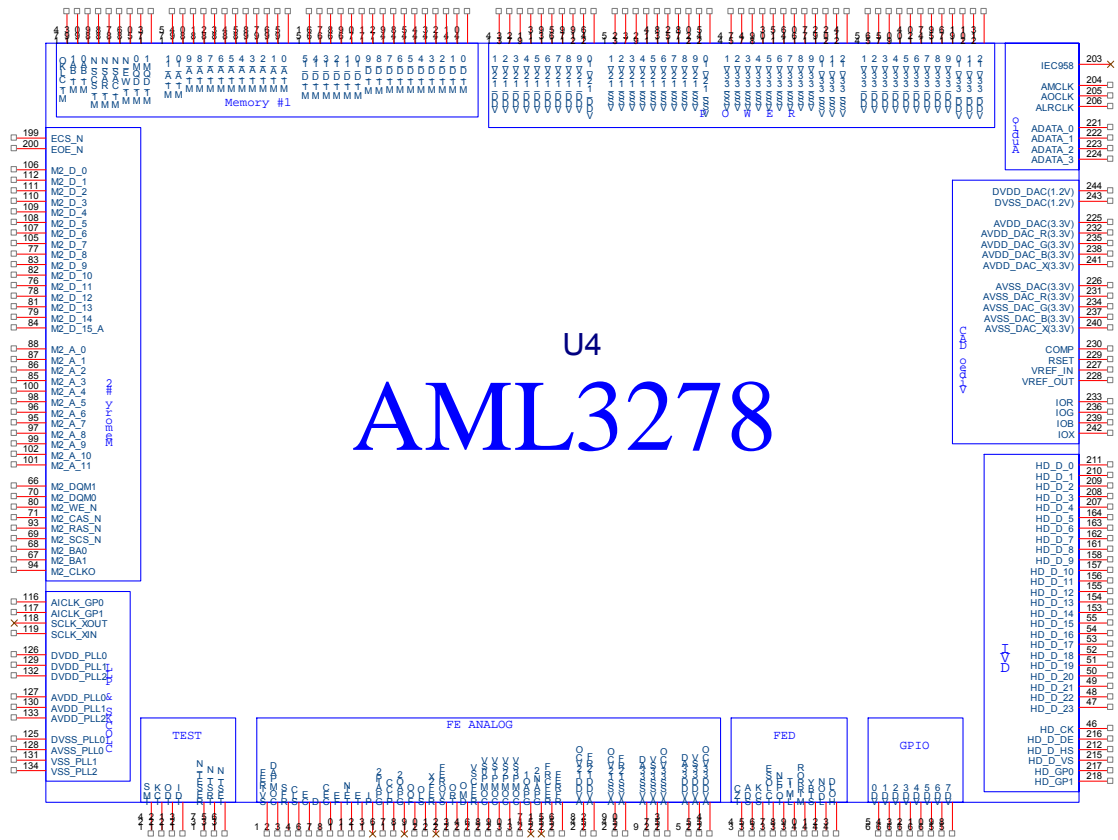


ML4800, power factor conection and PWM controller combo, SMD



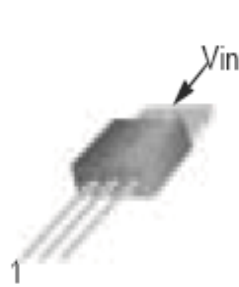


AML3278 ,decoder, SMD

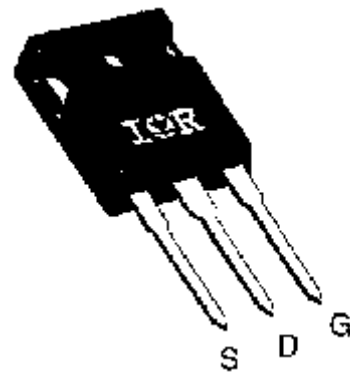


L7912 or LM7912, Voltage Regulator, TO-220

IRFP460C ,Power MOSFET, TO-247



1. GND 2. Input 3. Output



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KA278R05C Voltage Regulator, TO-220F-4L

KA78R05C Voltage Regulator, TO-220F-4L



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KA78R12 Voltage Regulator, TO-220F-4L

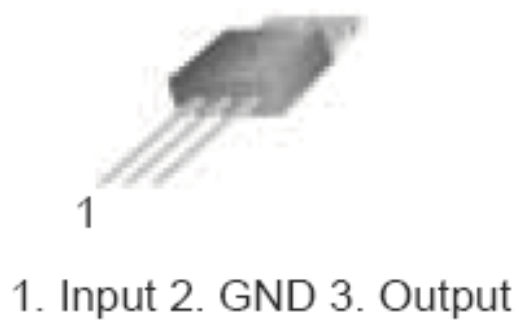
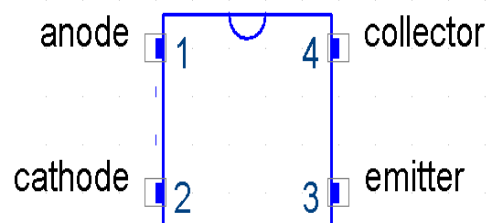
KA431, Precision Adjustable Voltage Regulator, TO-92



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PC817, Photoelectric Coupler, DIP

L7809, Voltage Regulator, TO-220



LM7805, Voltage Regulator, TO-220

78L05, Voltage Regulator, TO-92

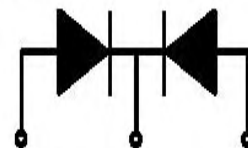
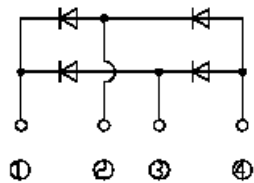
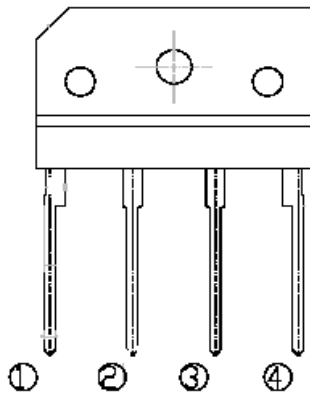


1. Input 2. GND 3. Output

1. Output 2. GND 3. Input

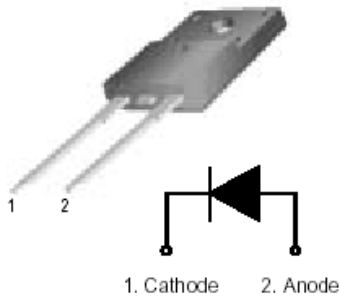
D10XB60, Bridge Rectifiers, In-line Package

FYPF2010DN  
Schottky barrier rectifiers, TO-220F

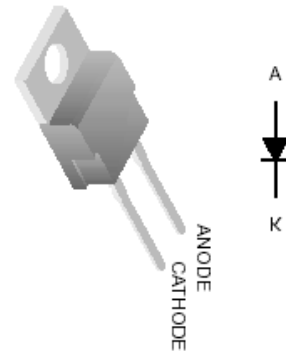


1. Anode 2. Cathode 3. Anode

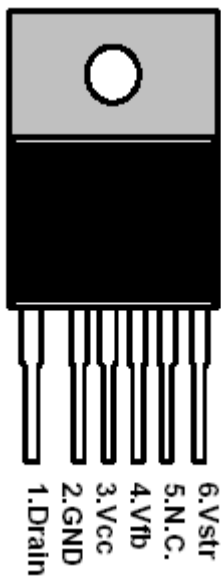
FFPF30U20STU, ultra fast recovery  
Power rectifier, TO-220F



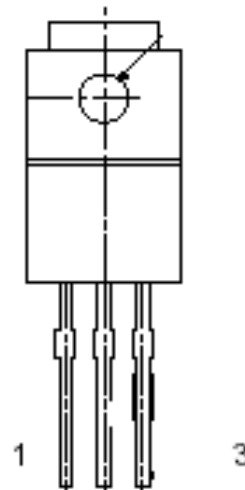
ISL9R1560PF2  
ultrasoft recovery rectifier TO-220

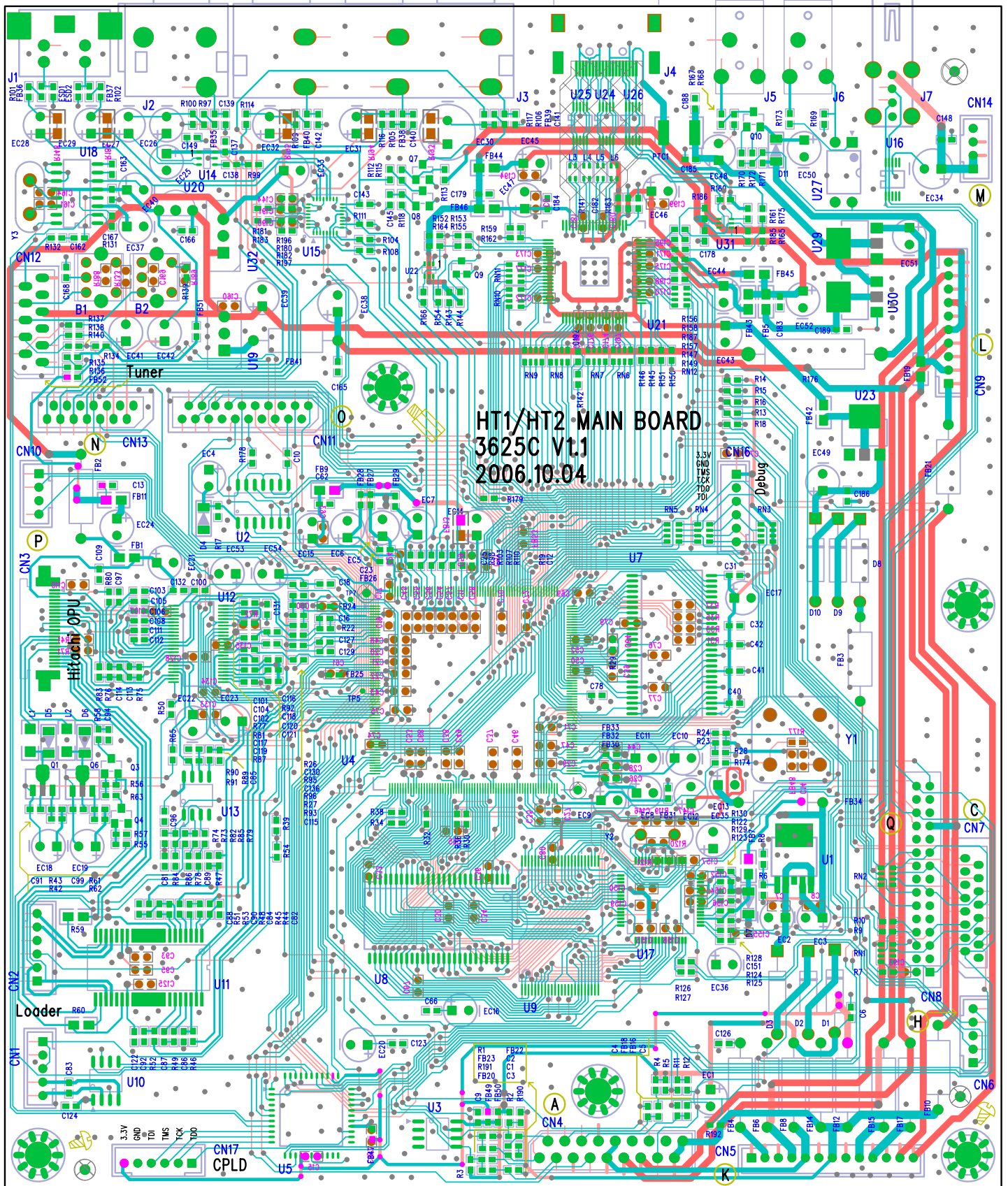


FSDM07652R, green mode Fairchild,  
power switch, TO-220F

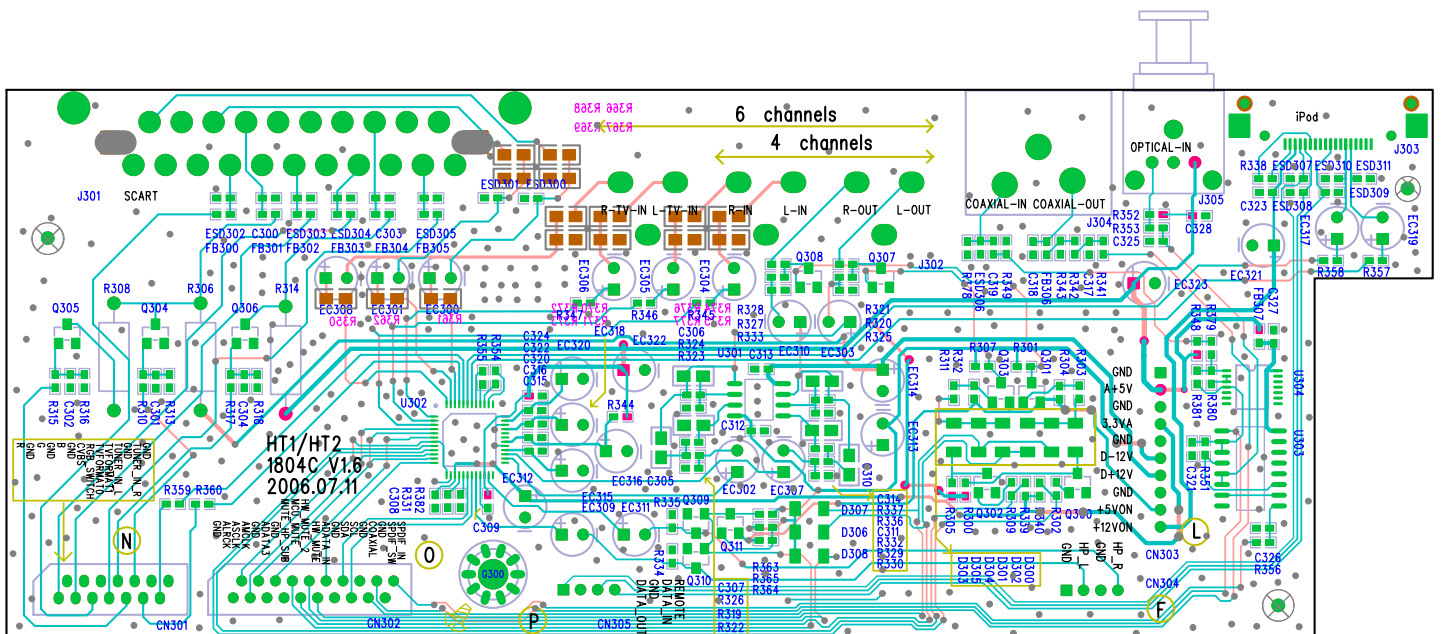


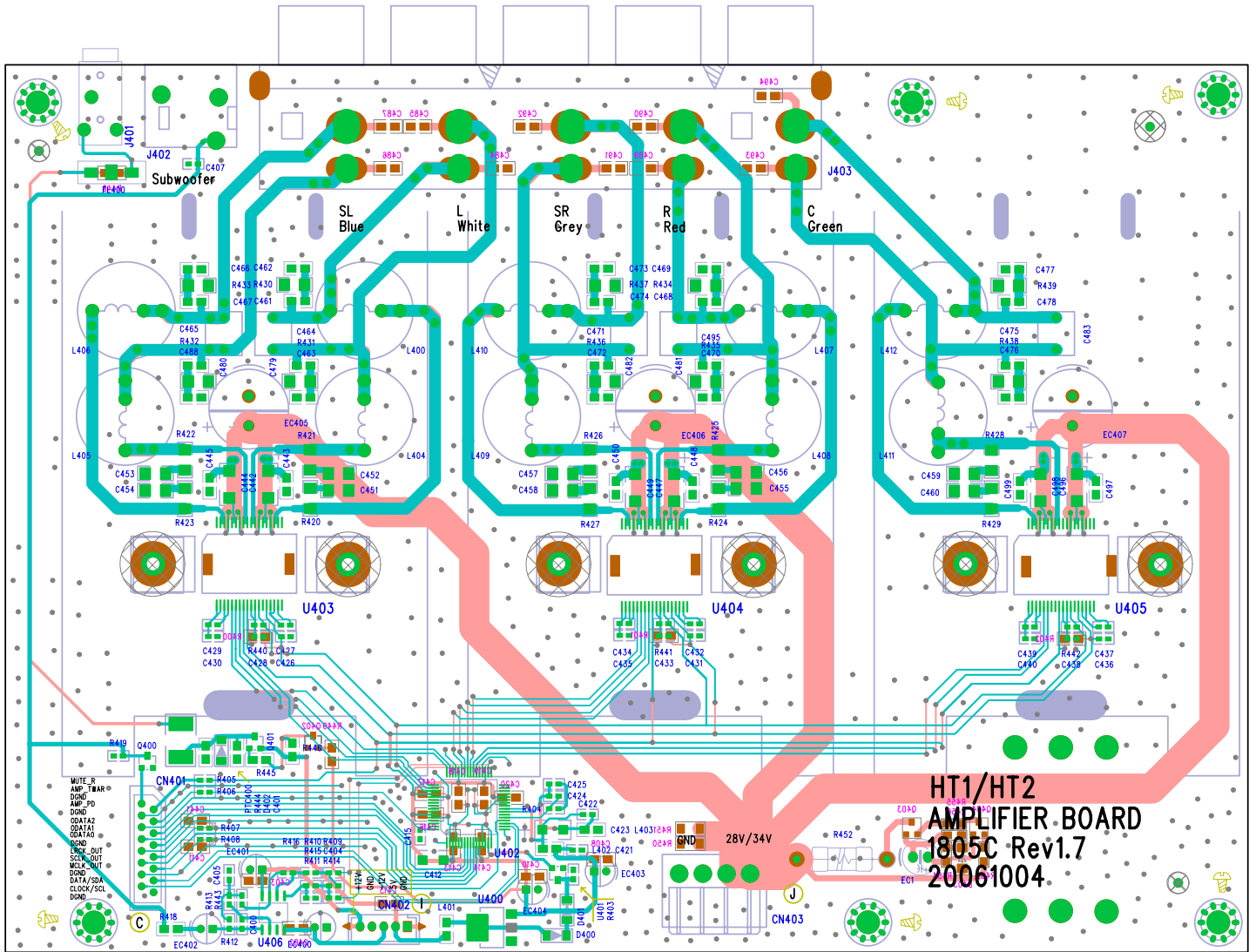
BA033BCO  
Low Dropout voltage regulator, TO-220Fp



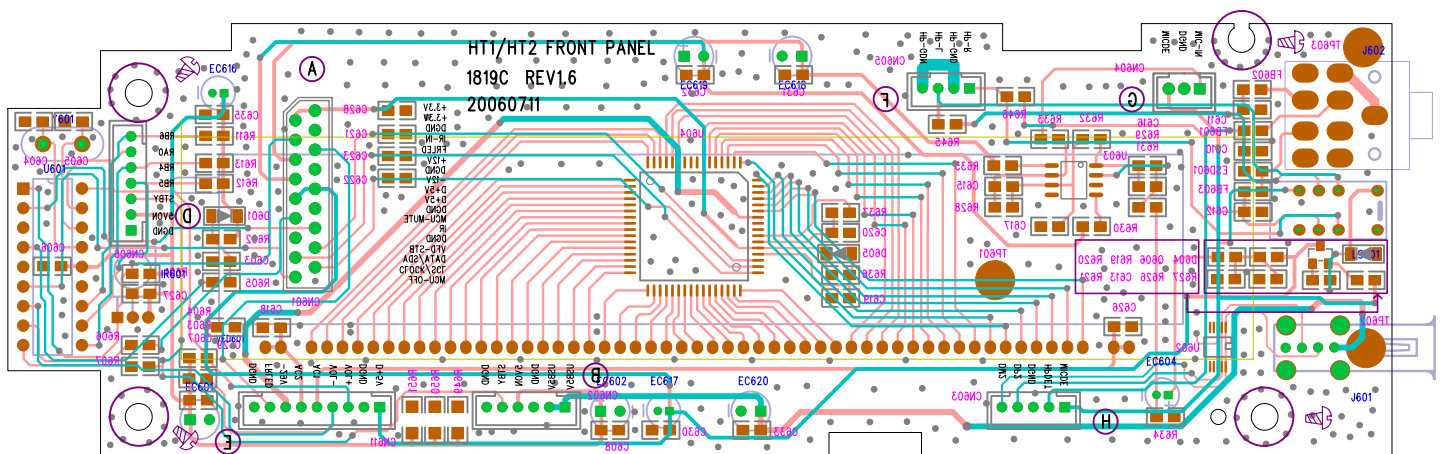


HT1/HT2 MAIN BOARD  
3625C V1.1  
2006.10.04

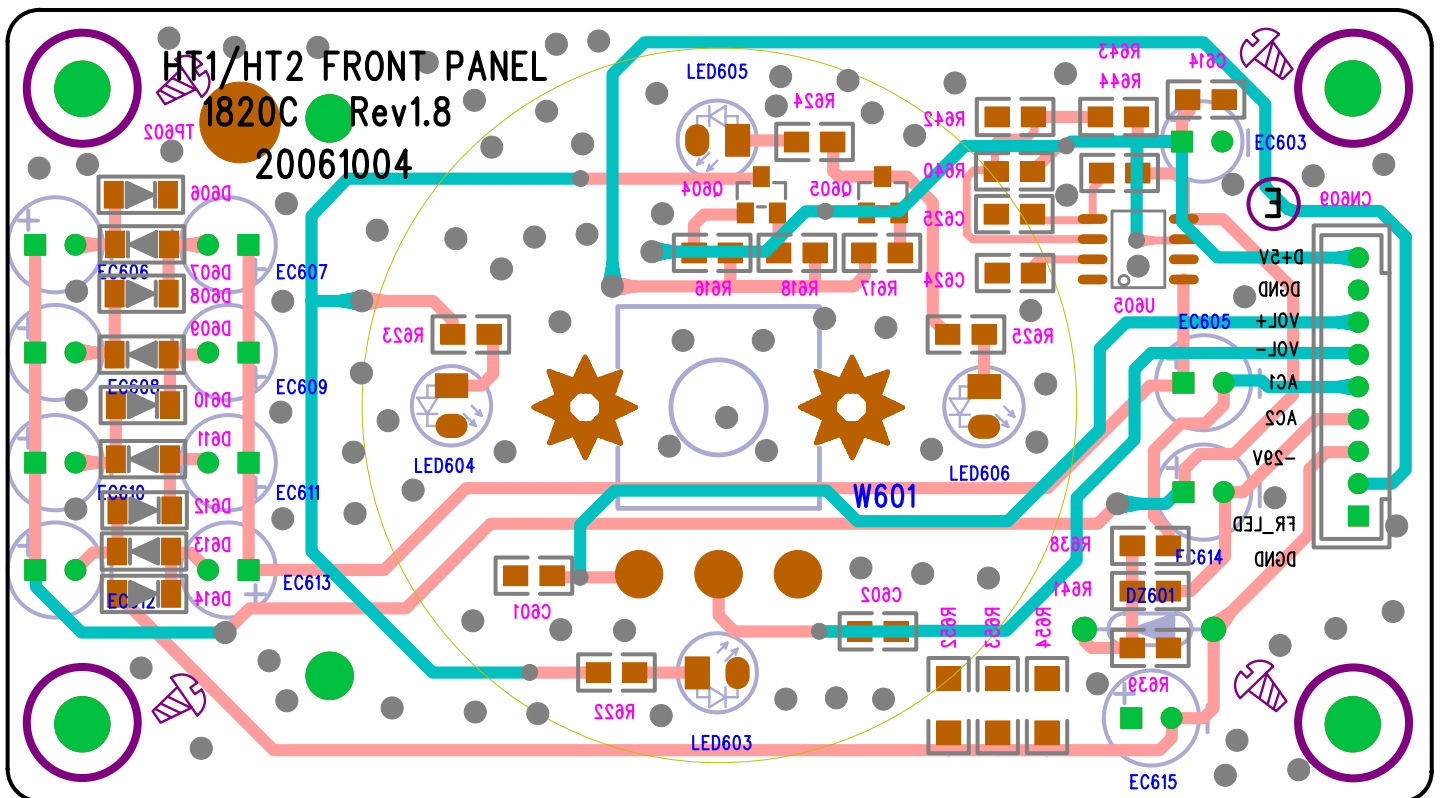


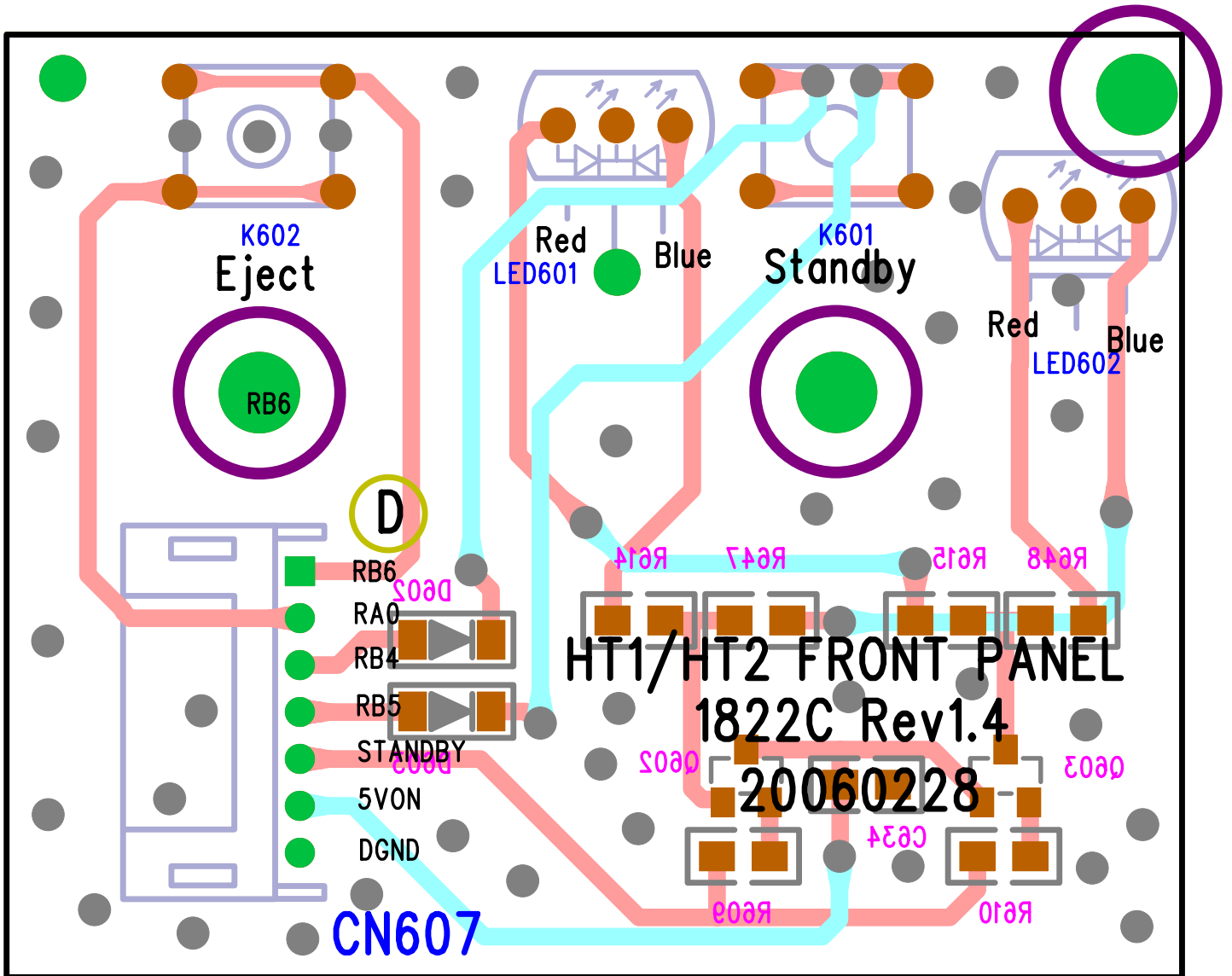


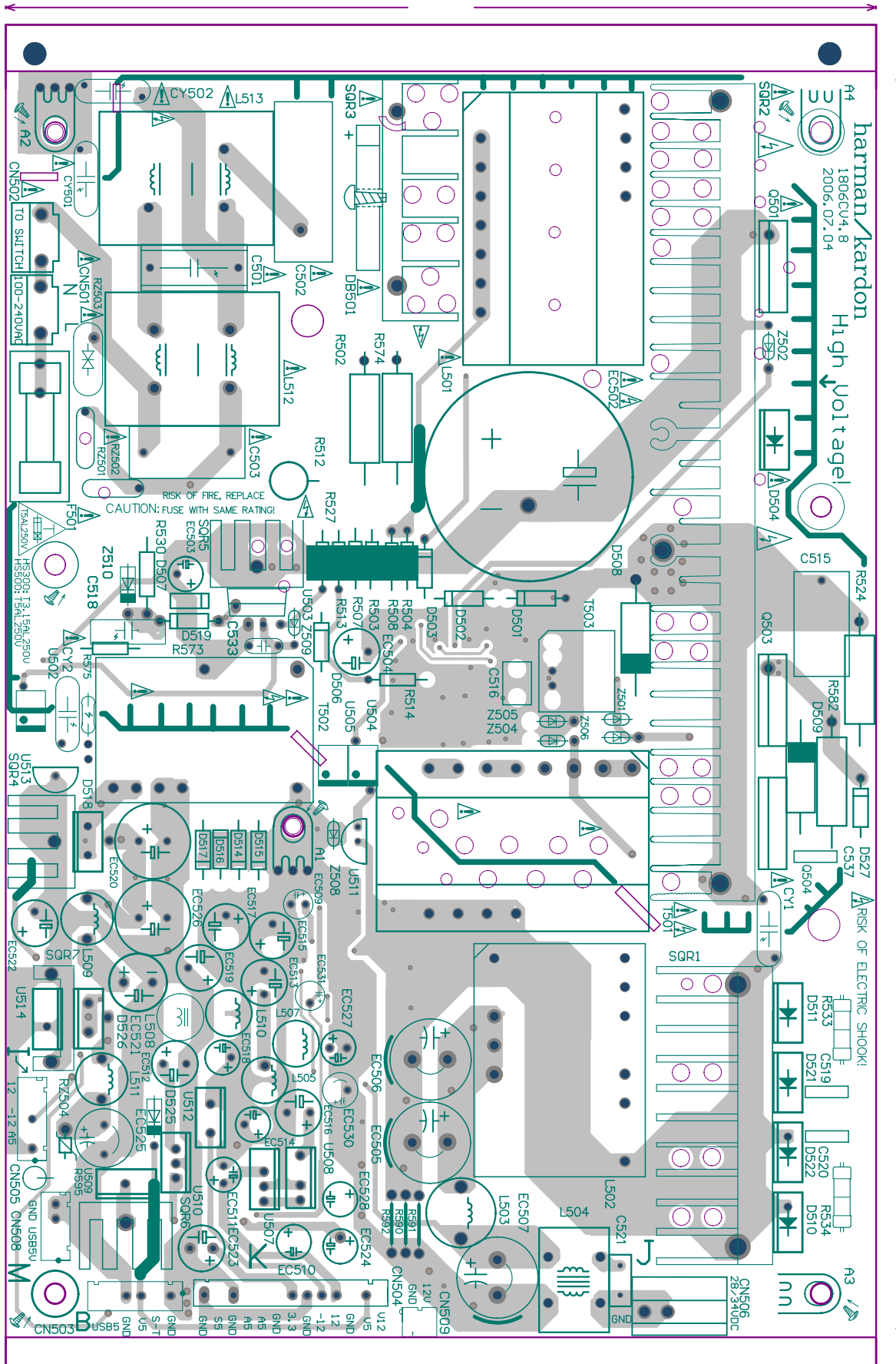
HT1/HT2  
AMPLIFIER BOARD  
1805C Rev1.7  
20061004

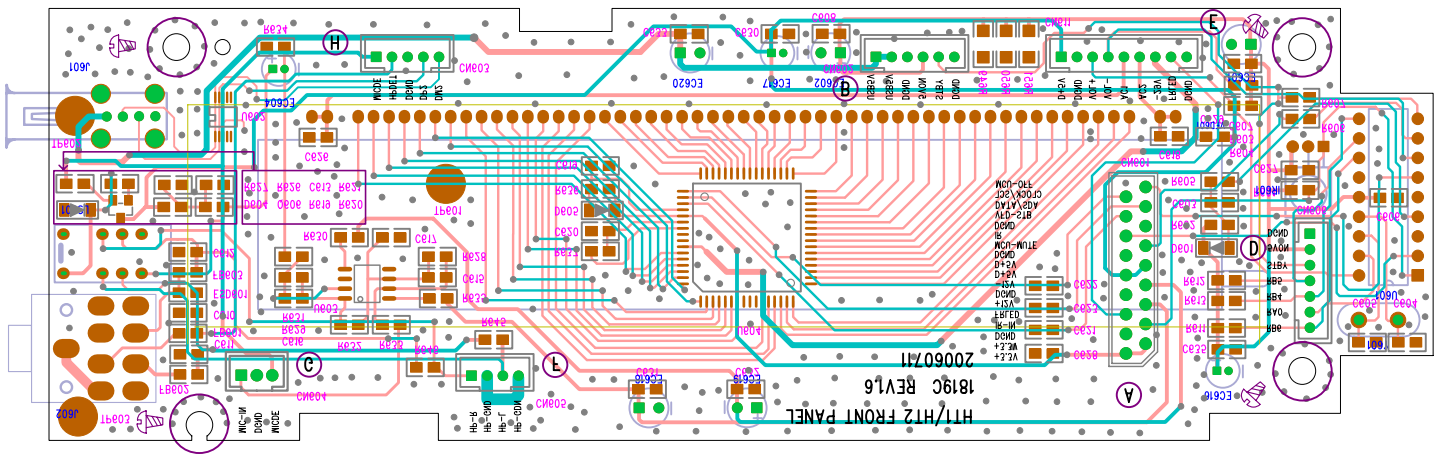




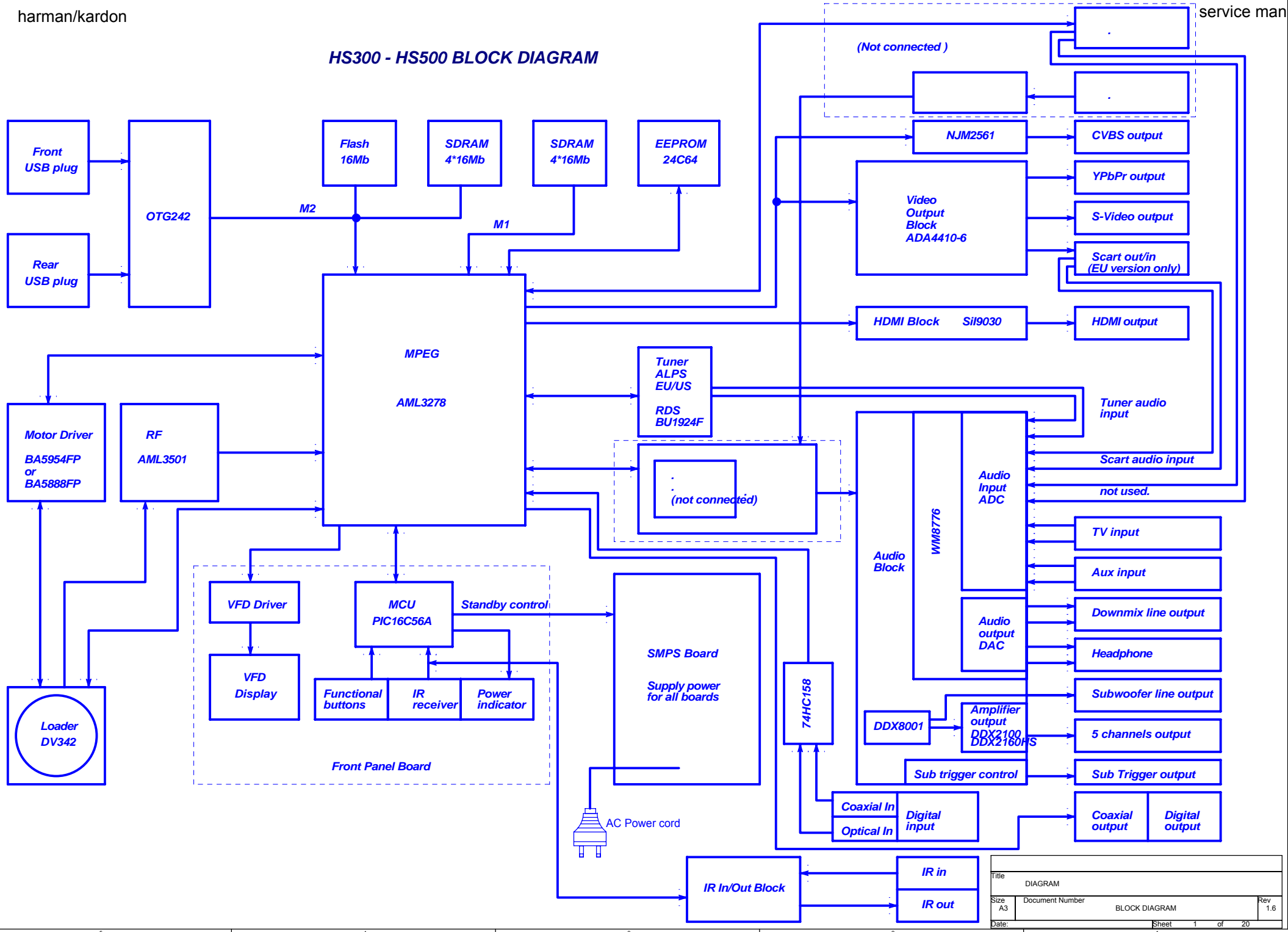






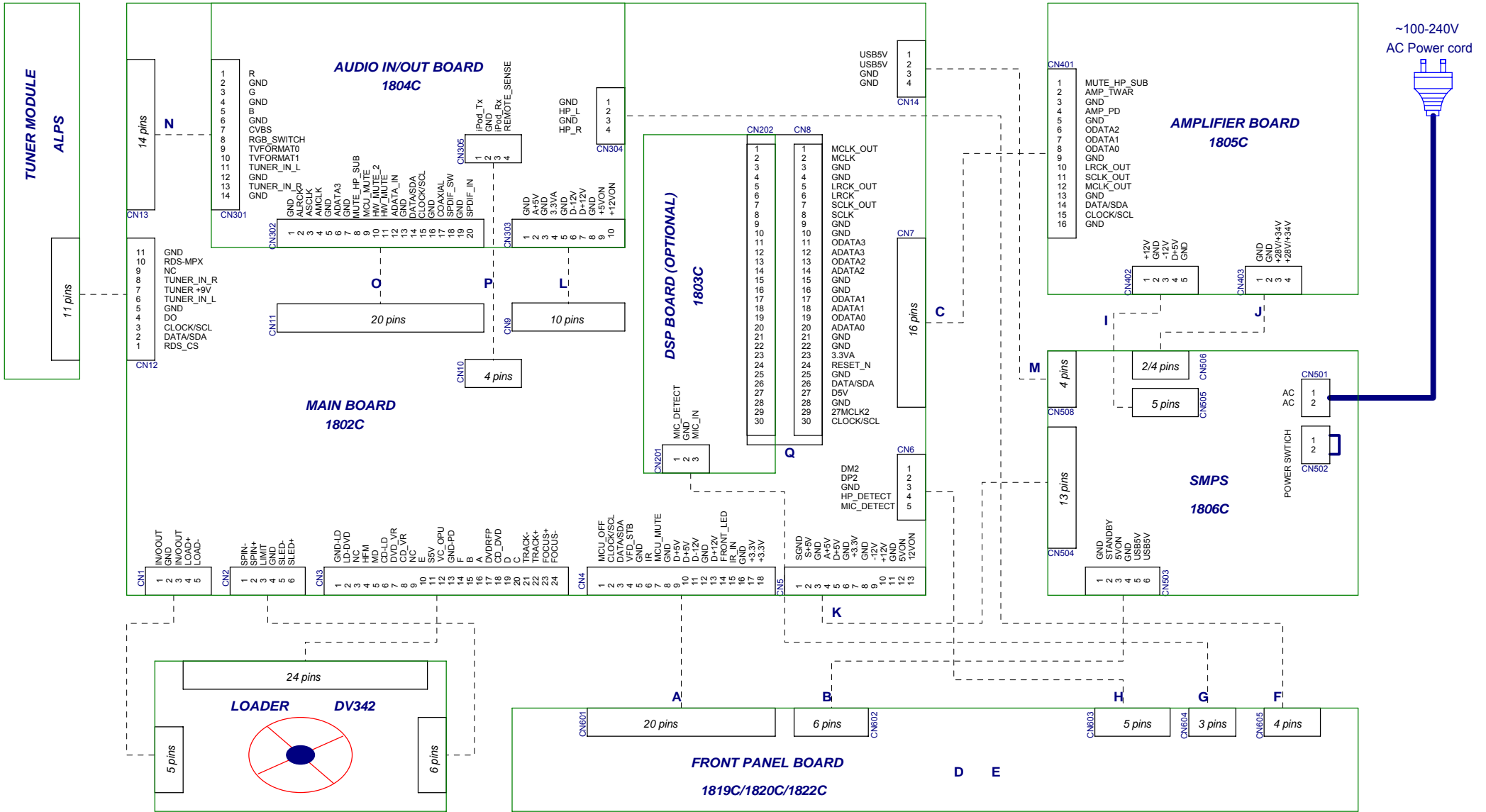


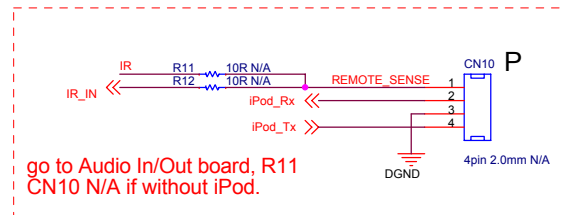
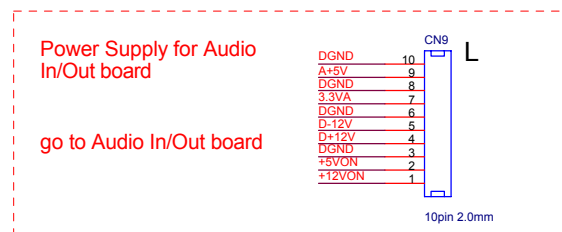
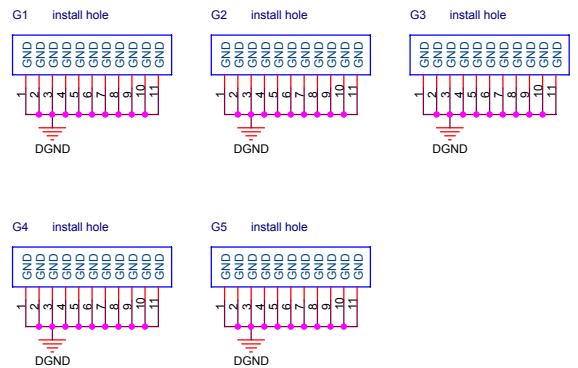
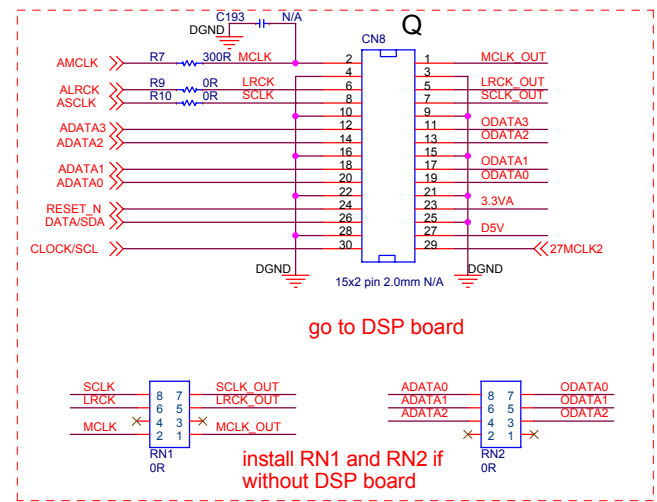
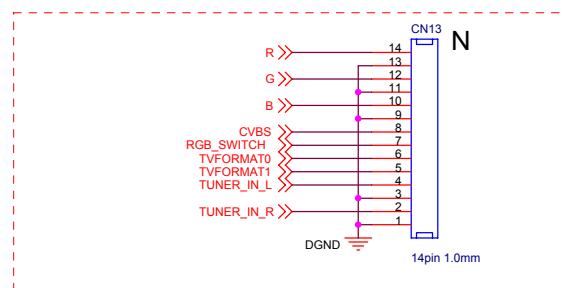
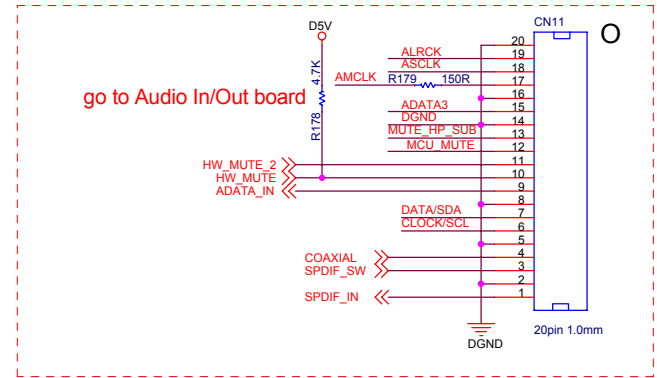
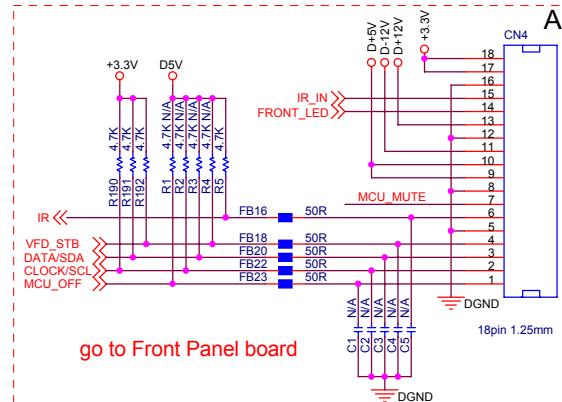
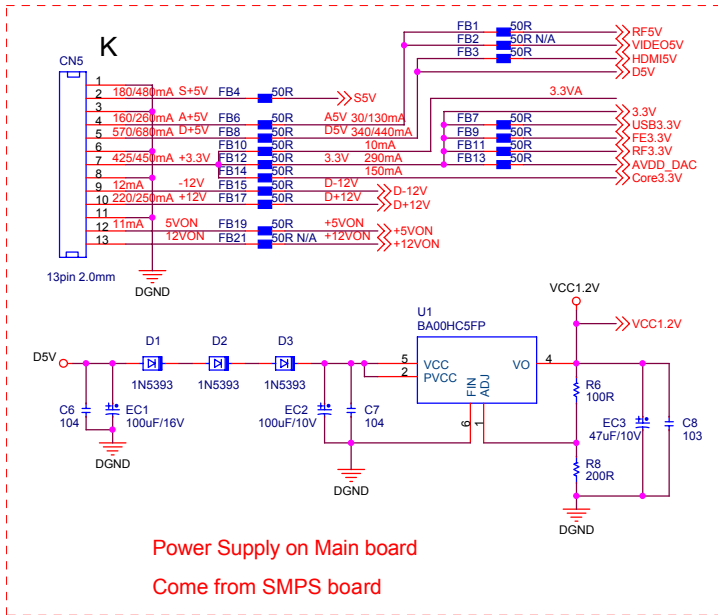
### HS300 - HS500 BLOCK DIAGRAM



Title			
DIAGRAM			
Size	Document Number	Rev	
A3	BLOCK DIAGRAM	1.6	
Date:	Sheet	1	of 20

HS300 - HS500 WIRING DIAGRAM





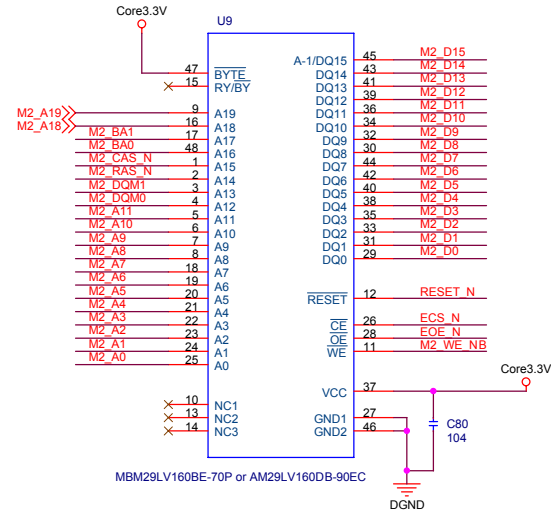
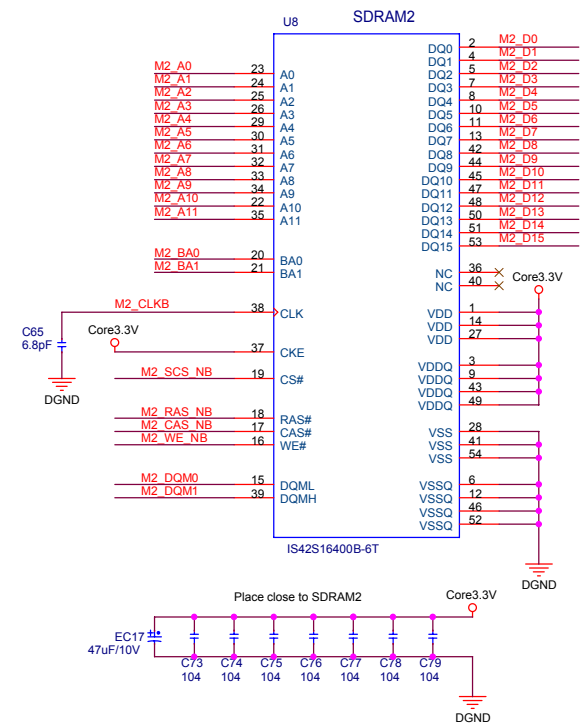
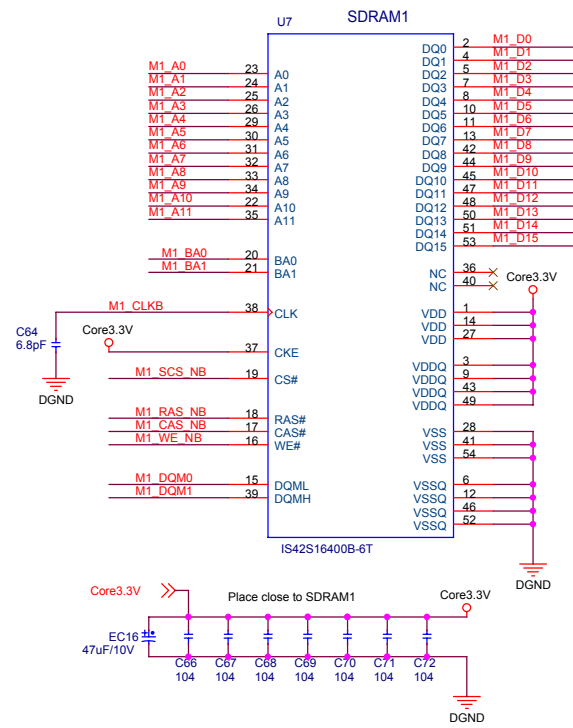
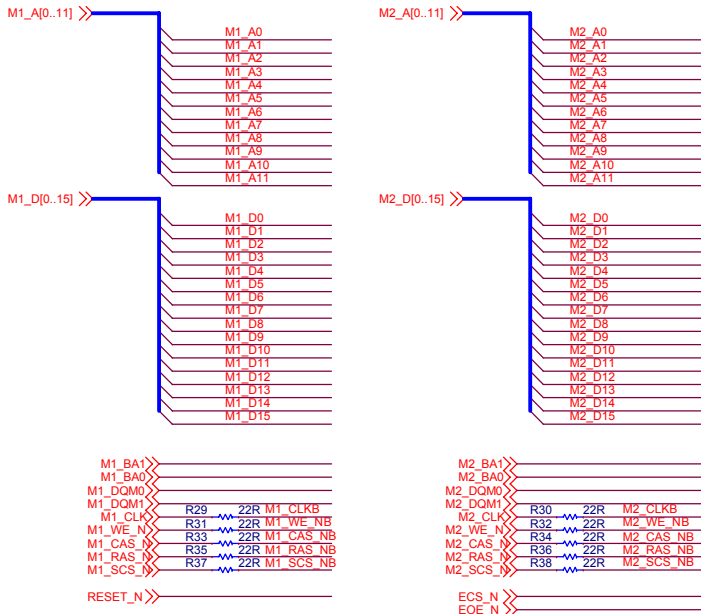
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Size	A3	Document Number	1802C	Rev	1.6
Date:	Saturday, June 10, 2006		Sheet	6	of 20



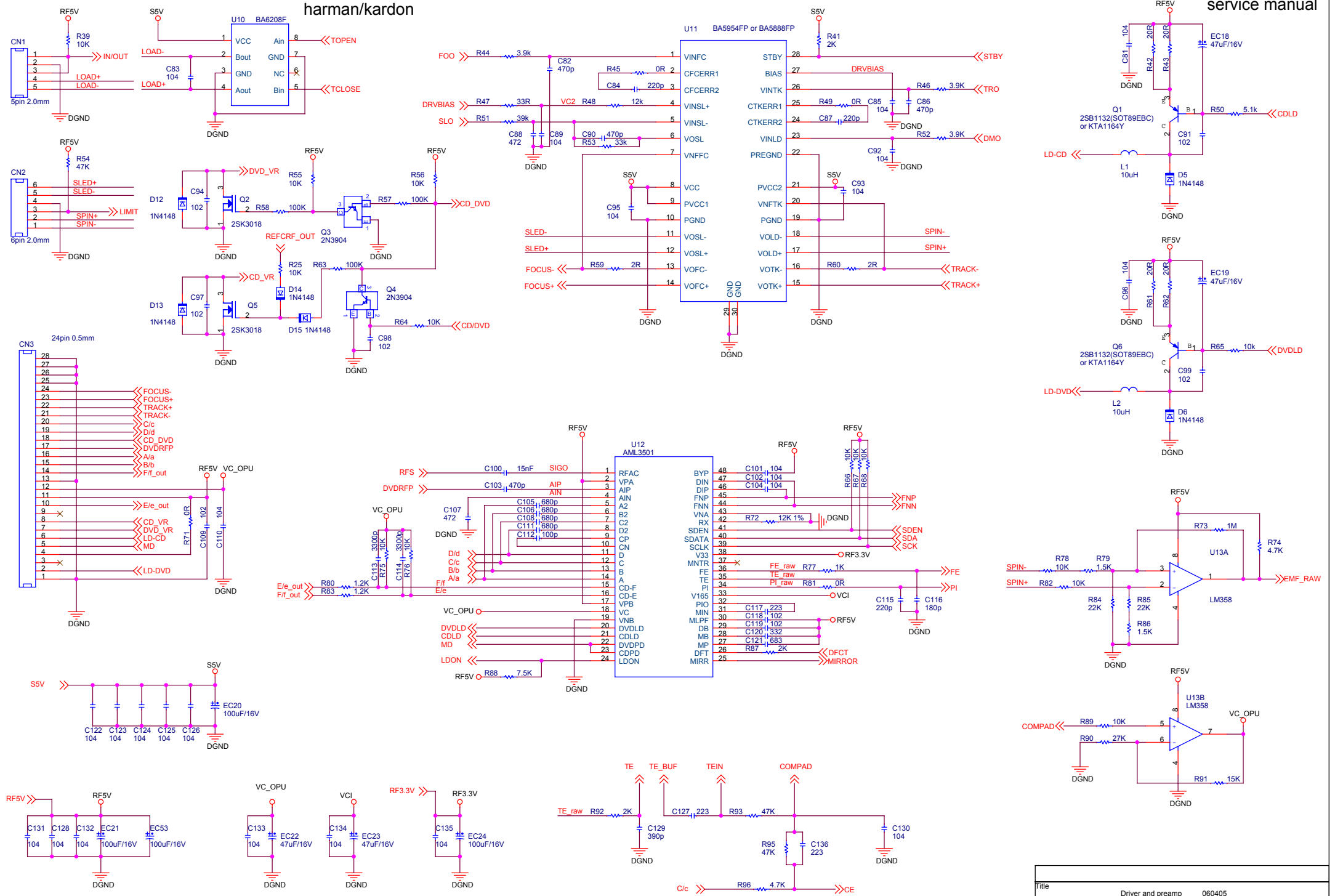


harman/kardon

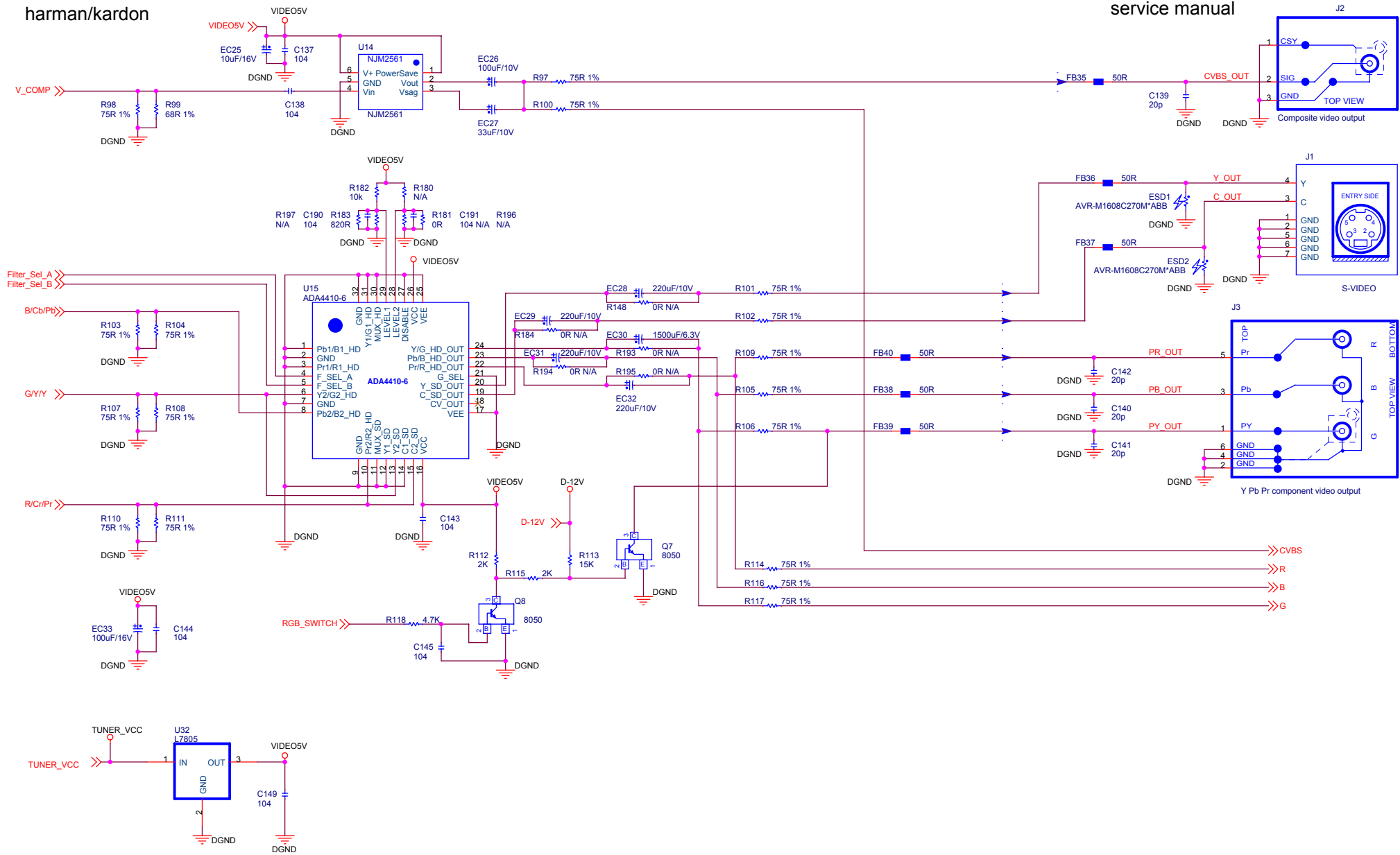
service manual

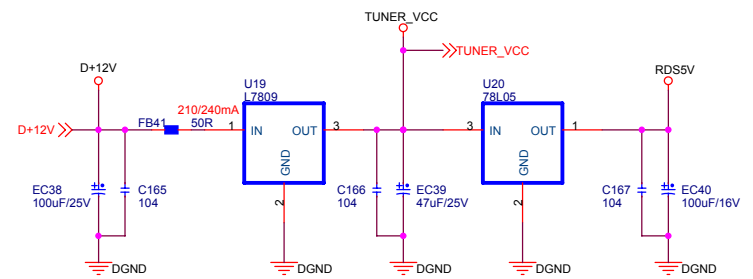
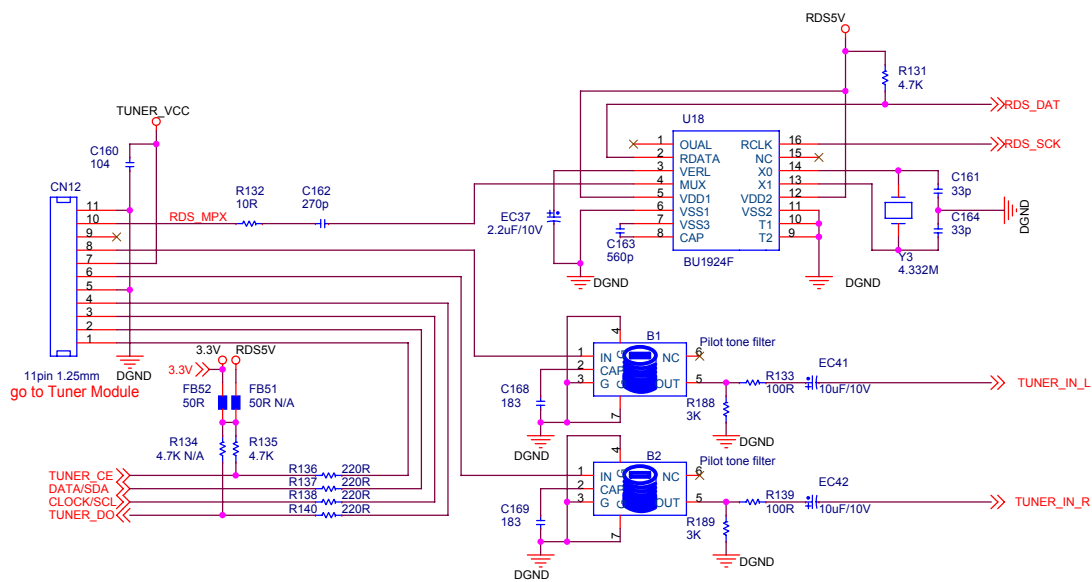
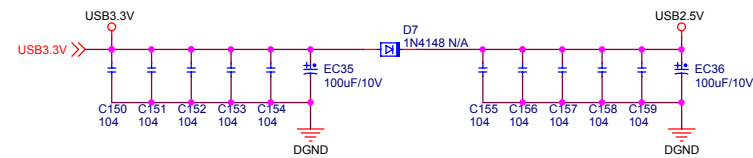
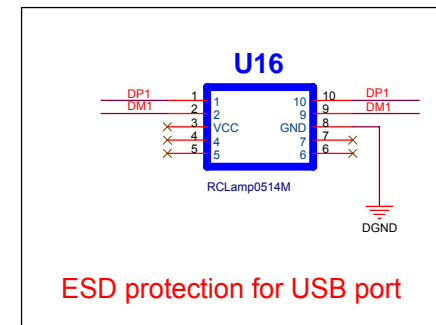
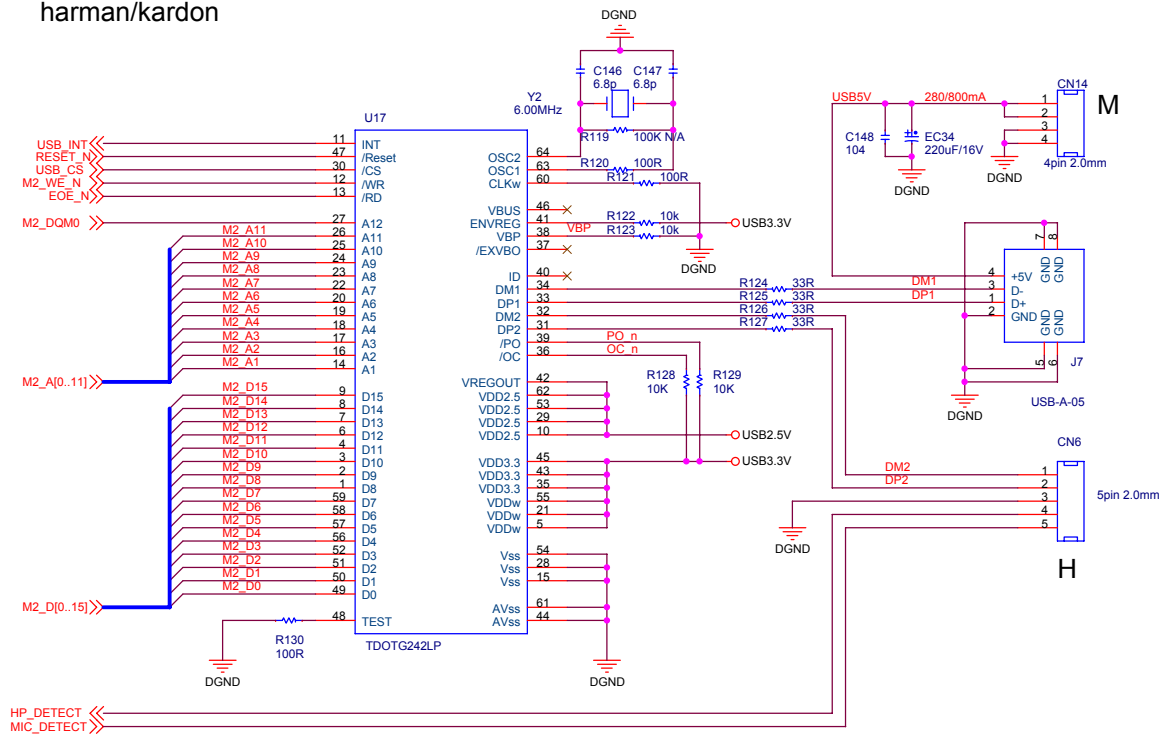


Title			SDRAM and FLASH 050830		
Size	Document Number			Rev	
A3	1802C			1.6	
Date:	Saturday, June 10, 2006	Sheet	8	of	20



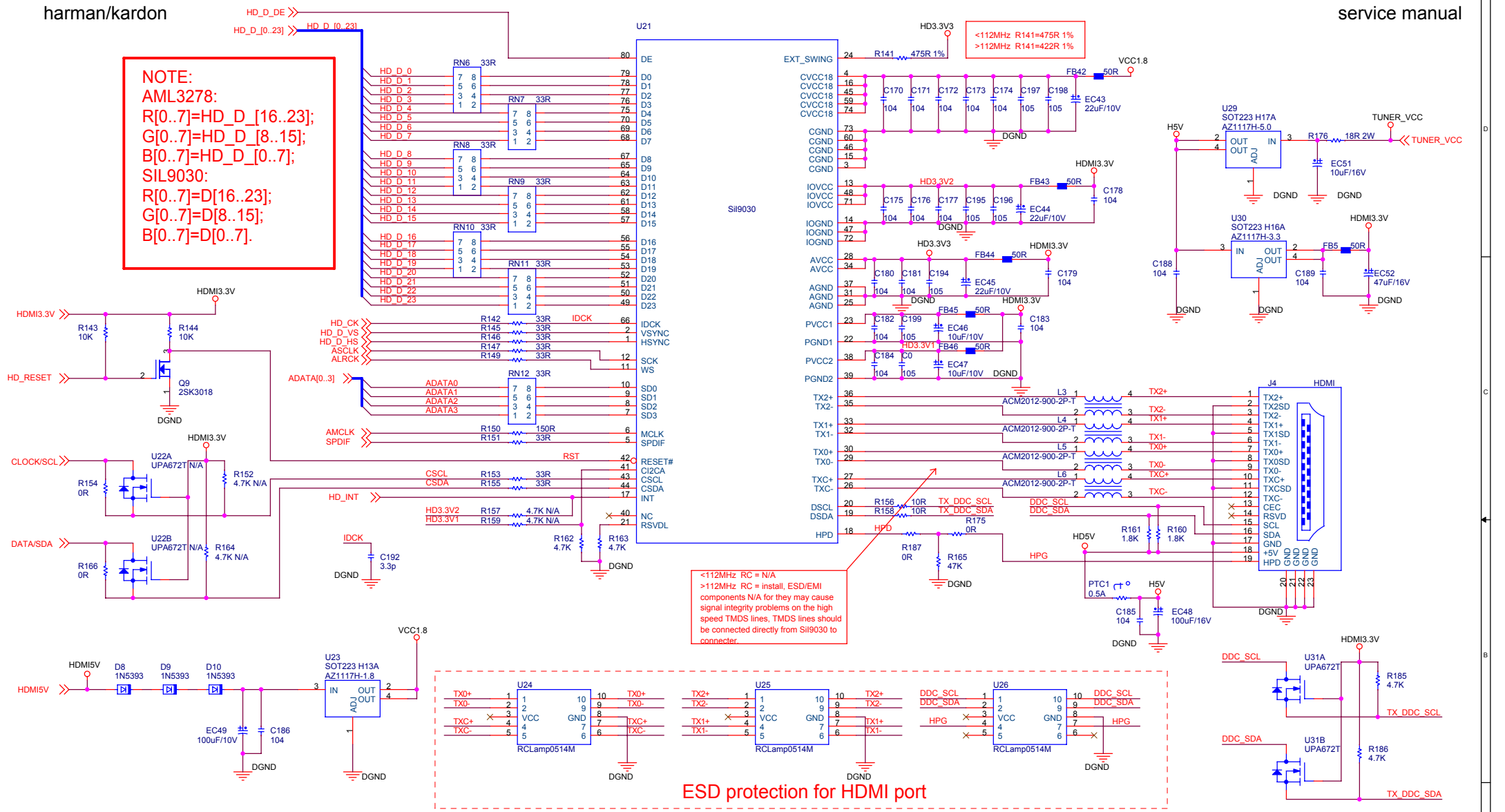
Title			Driver and preamp 060405		
Size	Document Number				Rev
A3	1802C				1.6
Date:	Saturday, June 10, 2006	Sheet	9	of	20



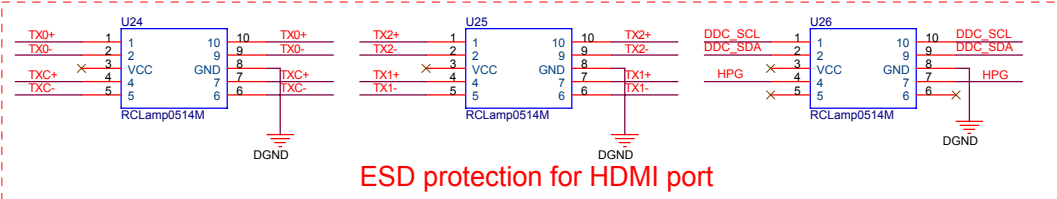



Title			USB and Tuner			060414		
Size	Document Number					Rev		
A3	1802C					1.6		
Date:	Saturday, June 10, 2006	Sheet	11	of	20			

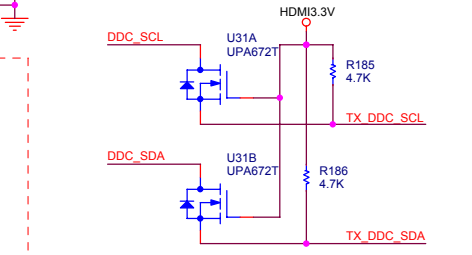
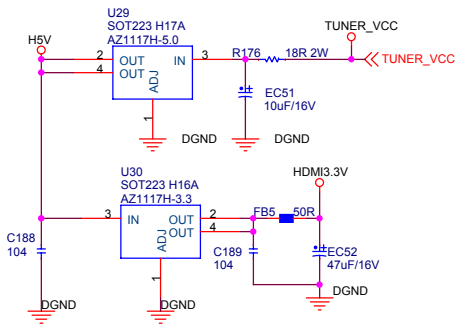
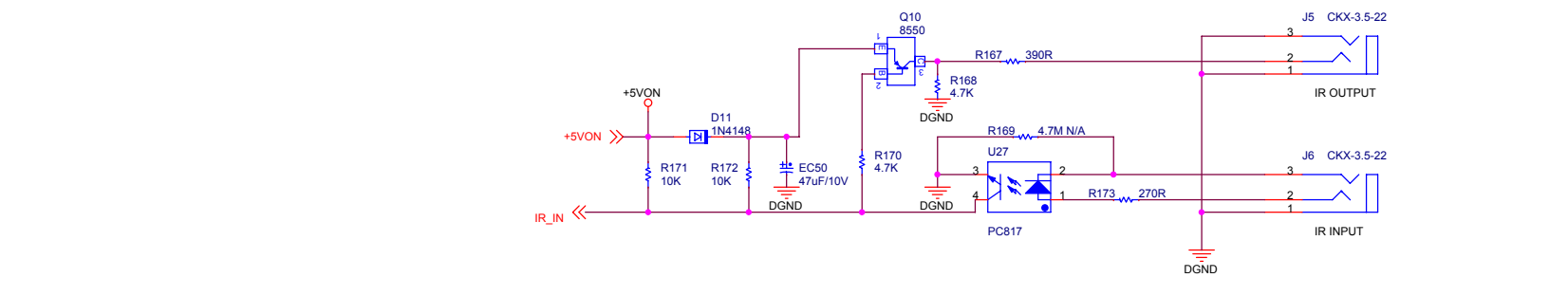
**NOTE:**  
 AML3278:  
 R[0..7]=HD\_D\_[16..23];  
 G[0..7]=HD\_D\_[8..15];  
 B[0..7]=HD\_D\_[0..7];  
 SiL9030:  
 R[0..7]=D[16..23];  
 G[0..7]=D[8..15];  
 B[0..7]=D[0..7].



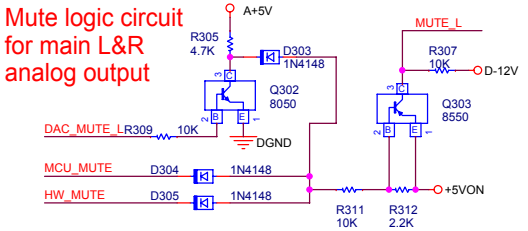
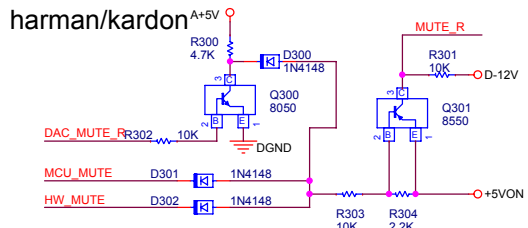
<112MHz RC = N/A  
 >112MHz RC = install, ESD/EMI components N/A for they may cause signal integrity problems on the high speed TMDS lines. TMDS lines should be connected directly from Si9030 to connector.



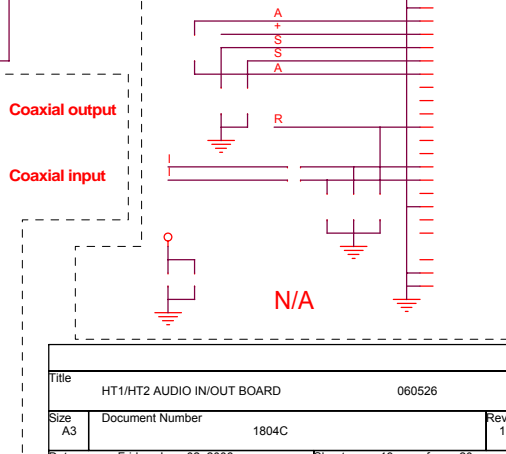
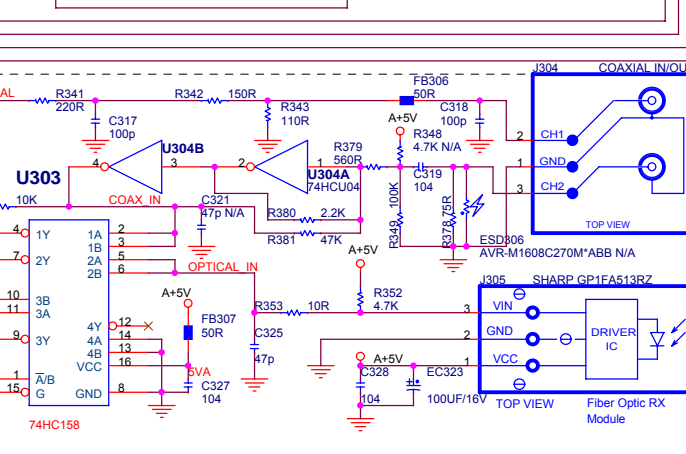
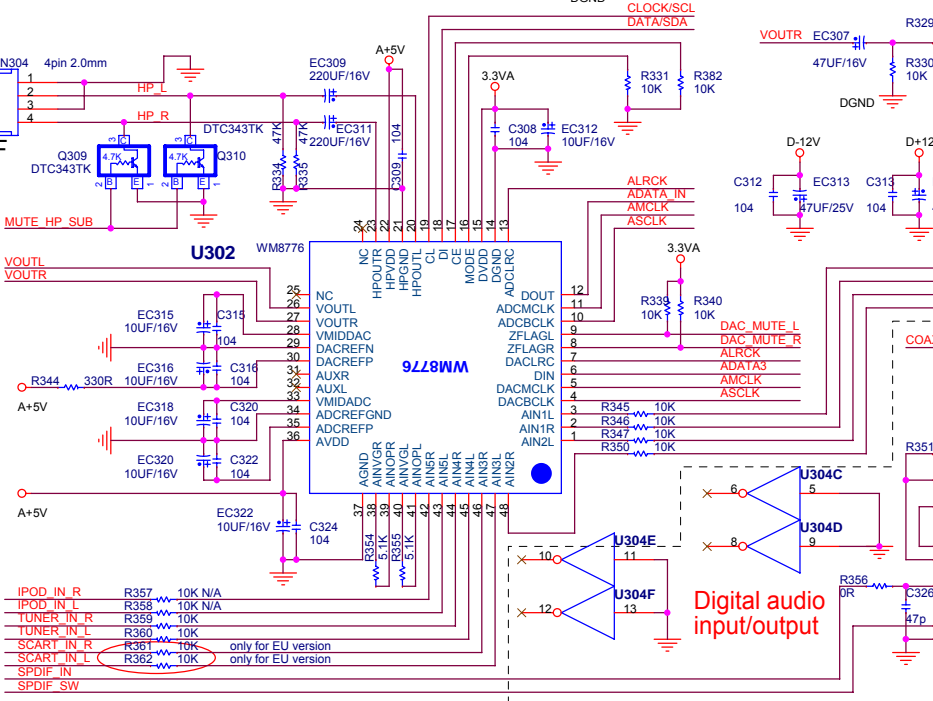
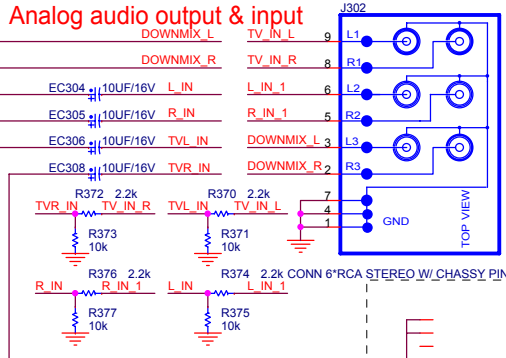
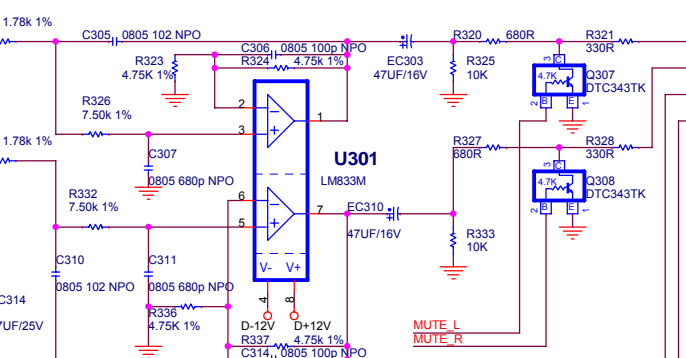
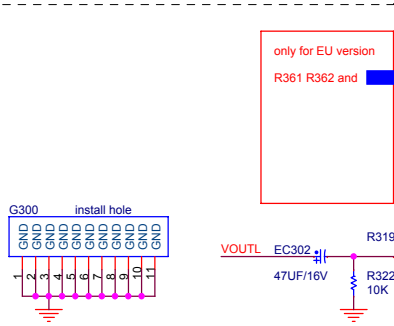
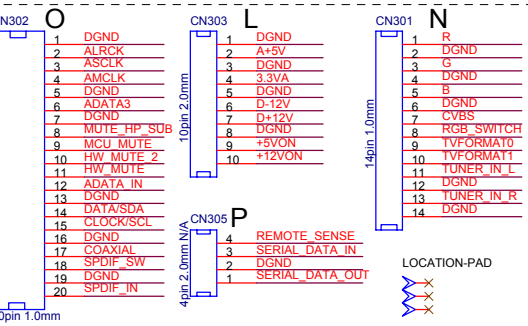
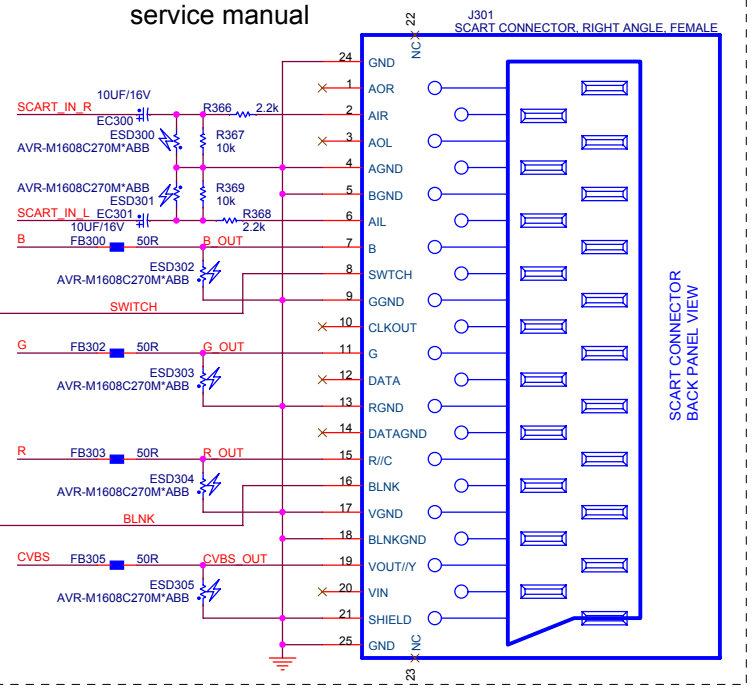
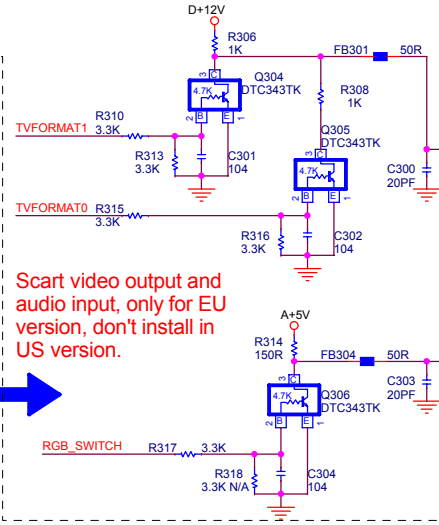
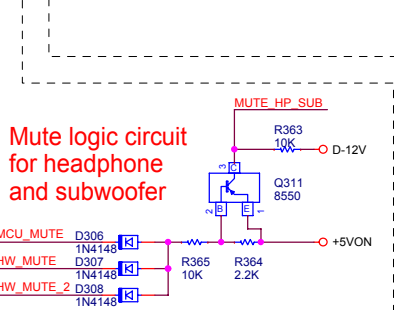
ESD protection for HDMI port



Title			HDMI and IR In/Out 060420		
Size	Document Number			Rev	
A3	1802C	1802C		1.6	
Date:	Saturday, June 10, 2006	Sheet	12	of	20



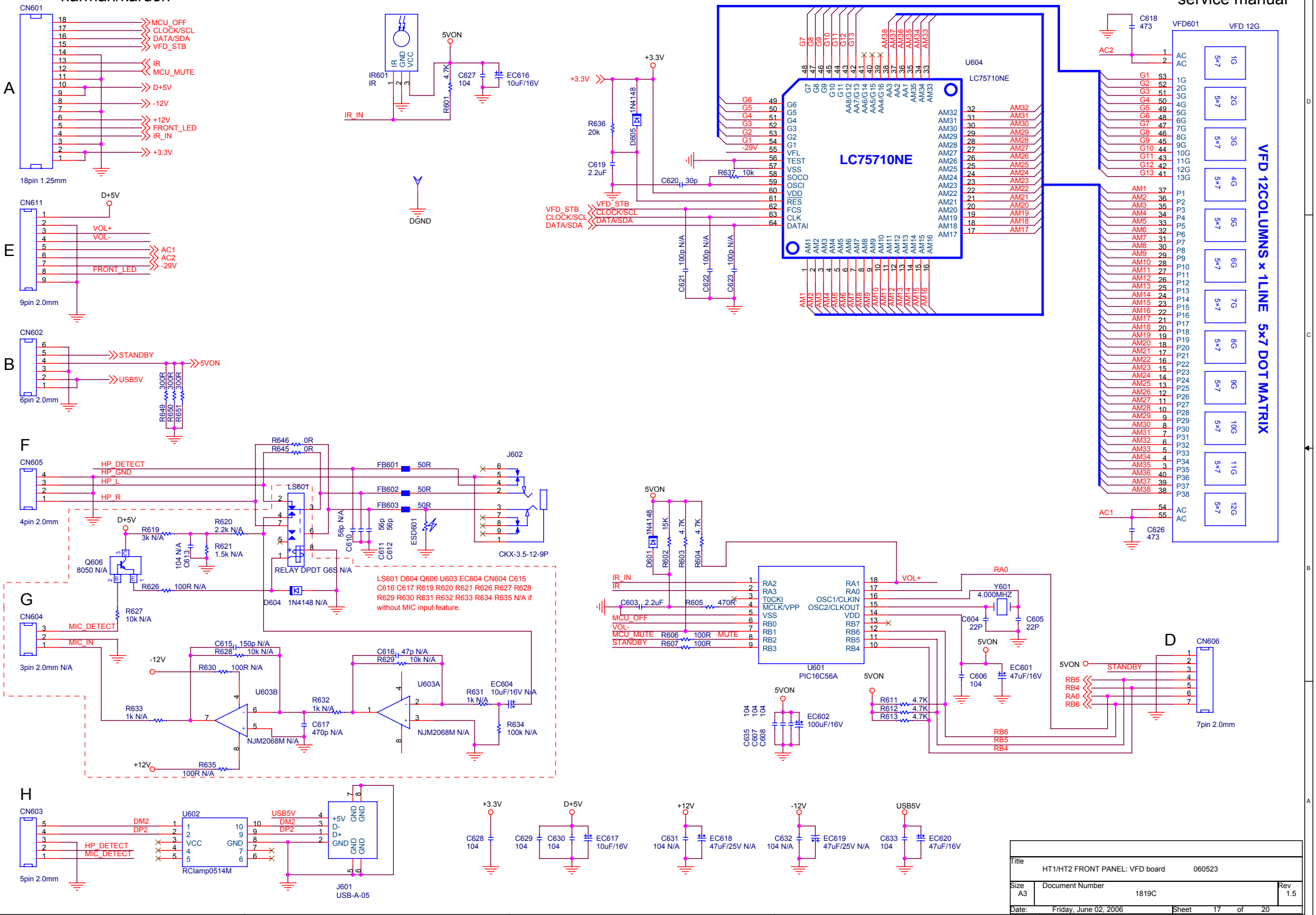
RGB SWITCH	TV FORMAT0	TV FORMAT1	TV FUNCTION	PIN8(V)	PIN16(V)
X	0	1	SCART inactive (Standby)	0V	X
X	X	0	SCART Active Auto Switch to 4:3 Aspect Ratio	12V	X
X	0	1	SCART Active Auto Switch to 16:9 Aspect Ratio	6V	X
0	X	X	RGB	1-3V	X
1	X	X	CVBS	0-0.4V	X



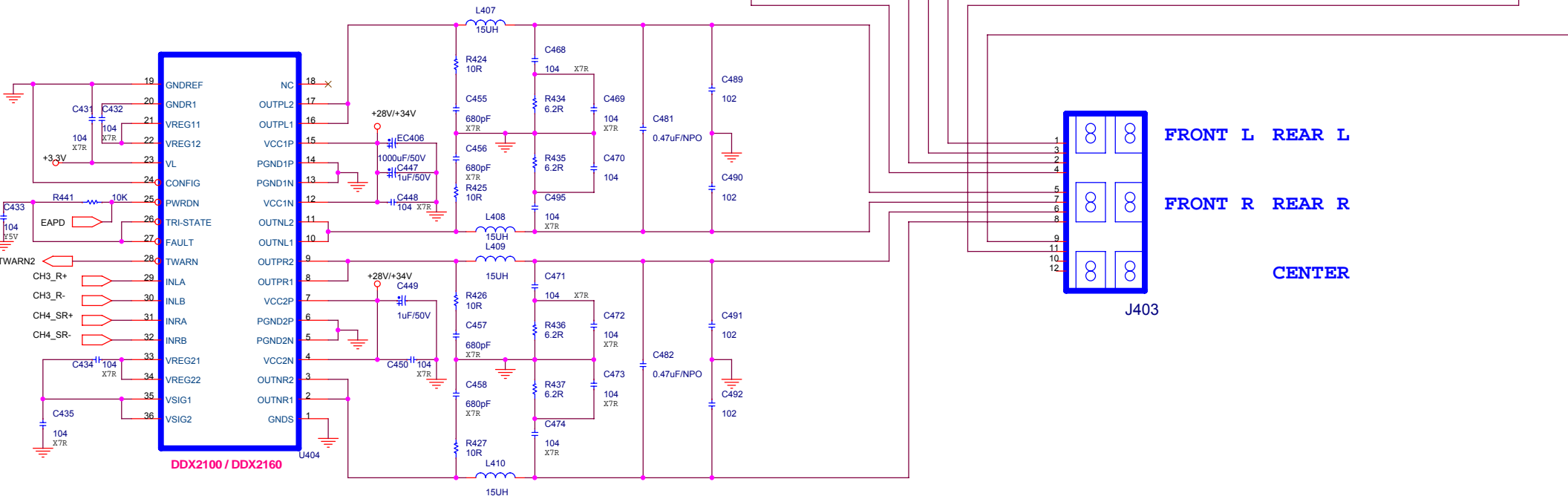
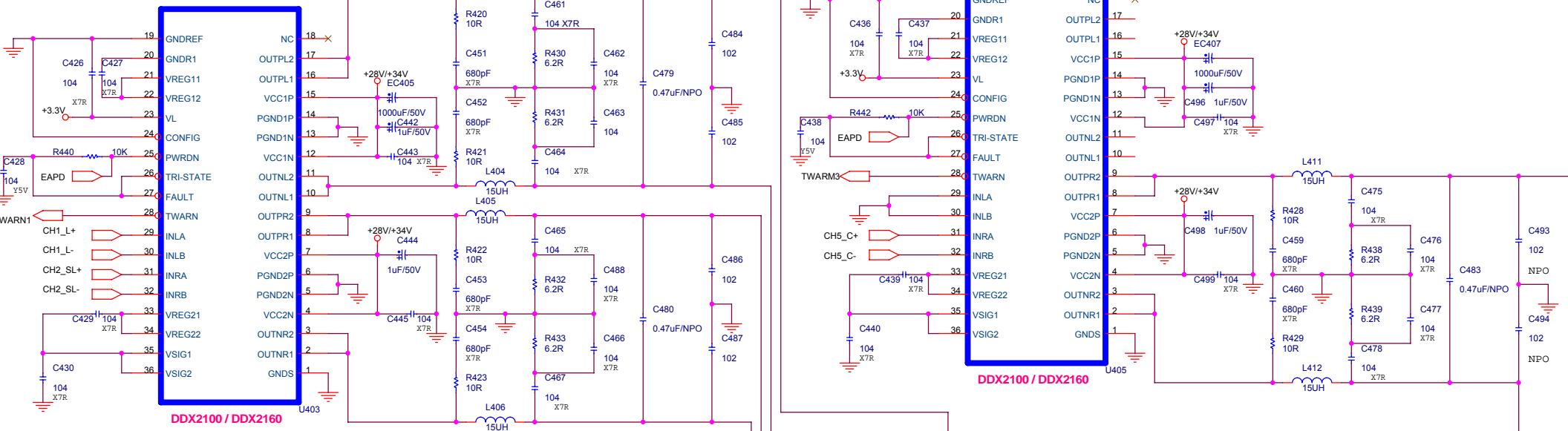
Title	HT1/HT2 AUDIO IN/OUT BOARD	060526
Size	A3	Document Number
		1804C
Date:	Friday, June 02, 2006	Sheet 13 of 20

# harman/kardon

# service manual



Title	HT1/HT2 FRONT PANEL: VFD board 060523	
Size	Document Number	Rev
A3	1819C	1.5
Date:	Friday, June 02, 2006	Sheet 17 of 20

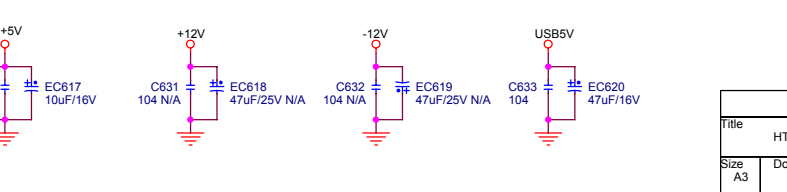
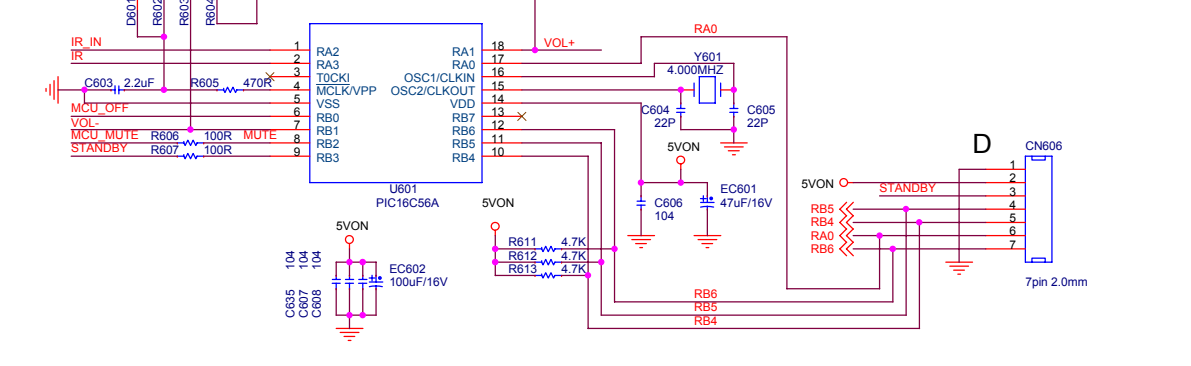
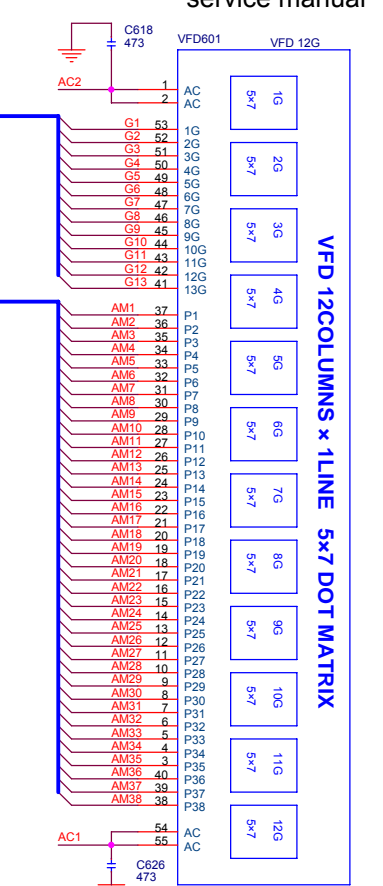
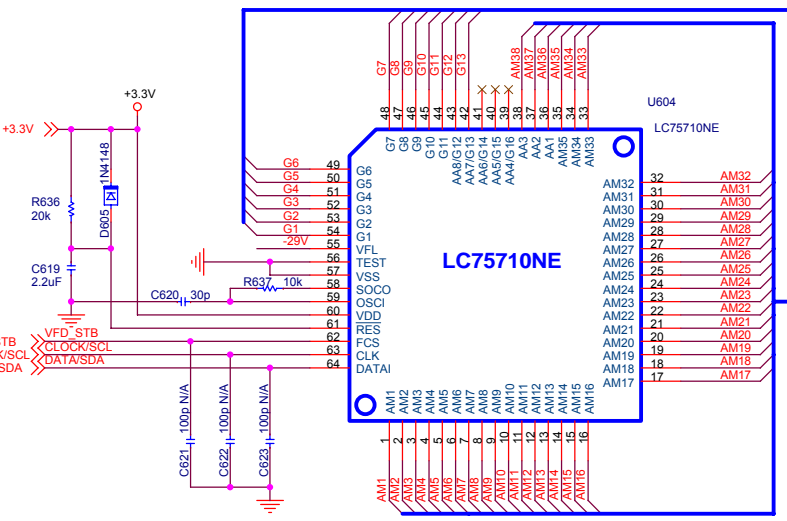
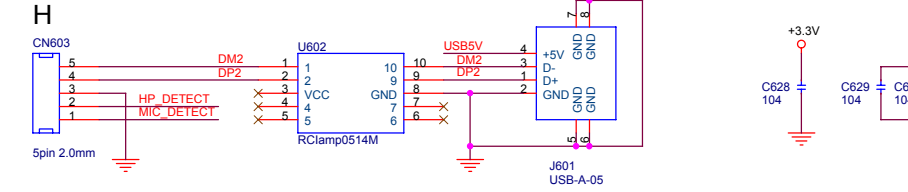
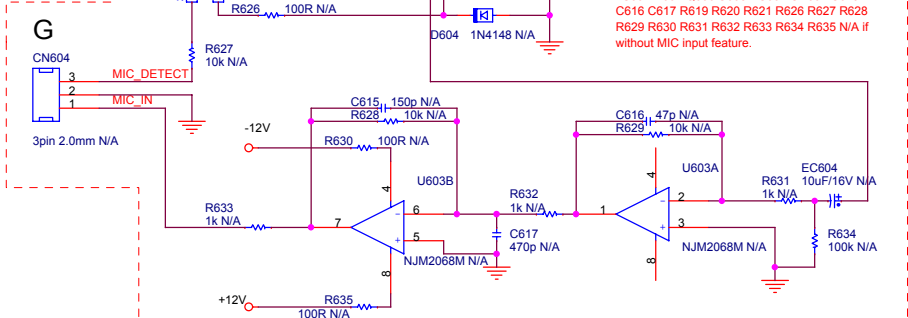
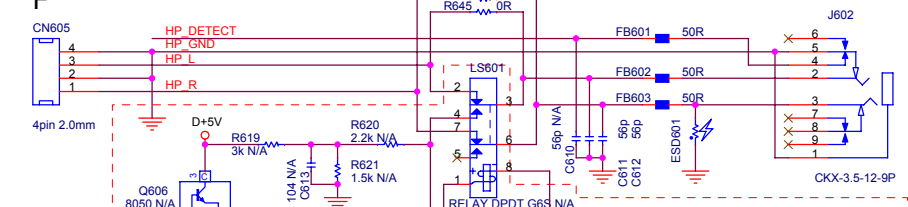
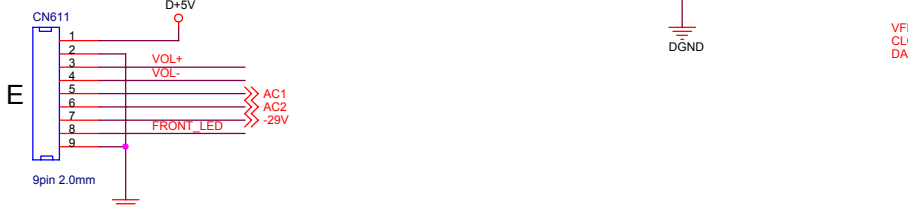
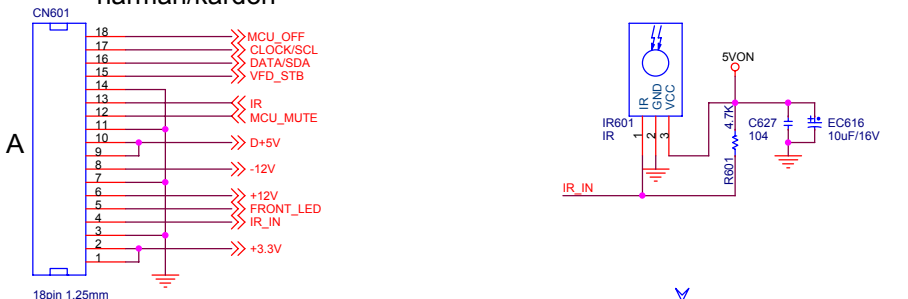


Title			HT1/HT2 Amp board		
Size	Document Number				Rev
A3	1805C				1.6
Date:	Saturday, June 03, 2006	Sheet	16	of	20

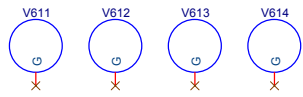
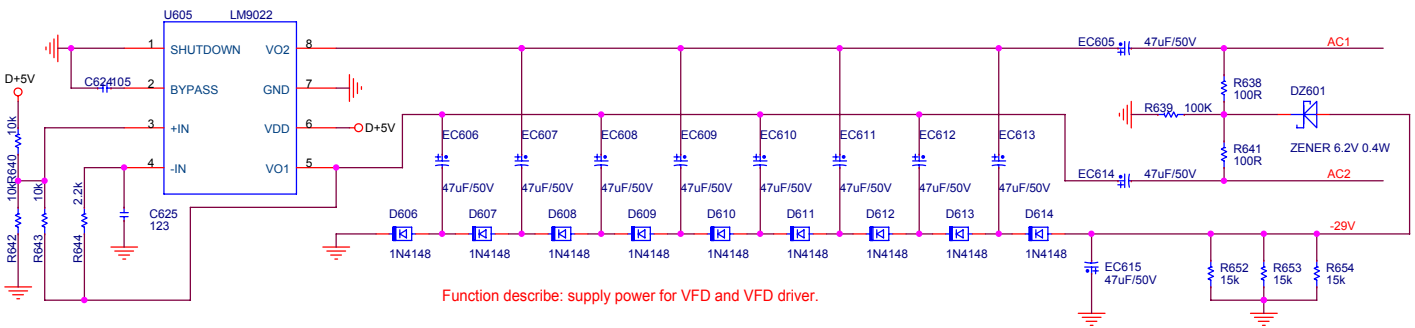
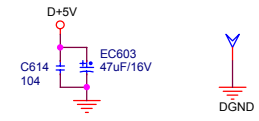
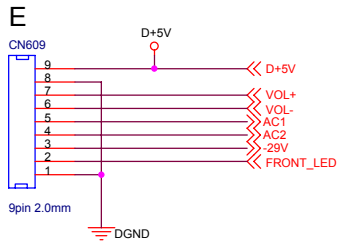
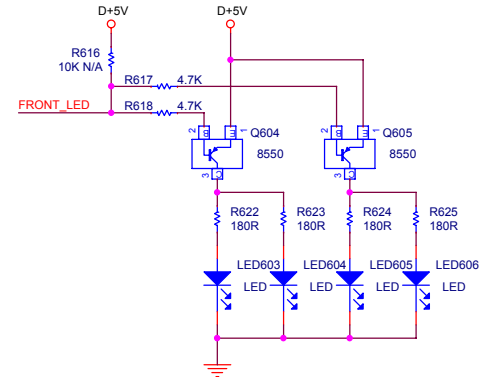
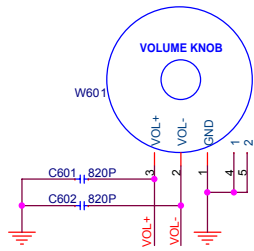


# harman/kardon

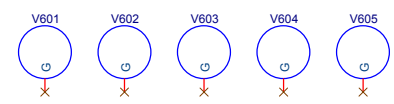
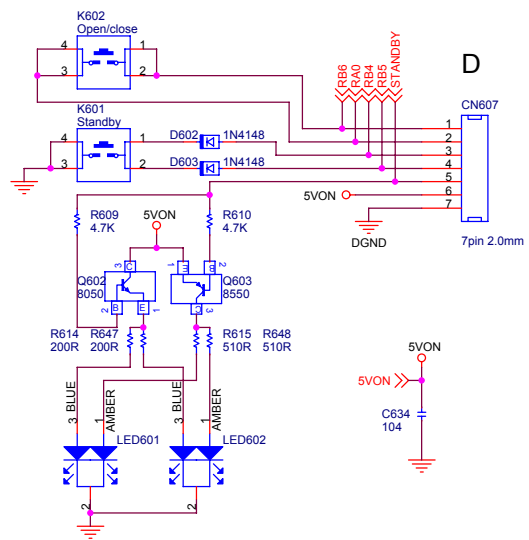
# service manual



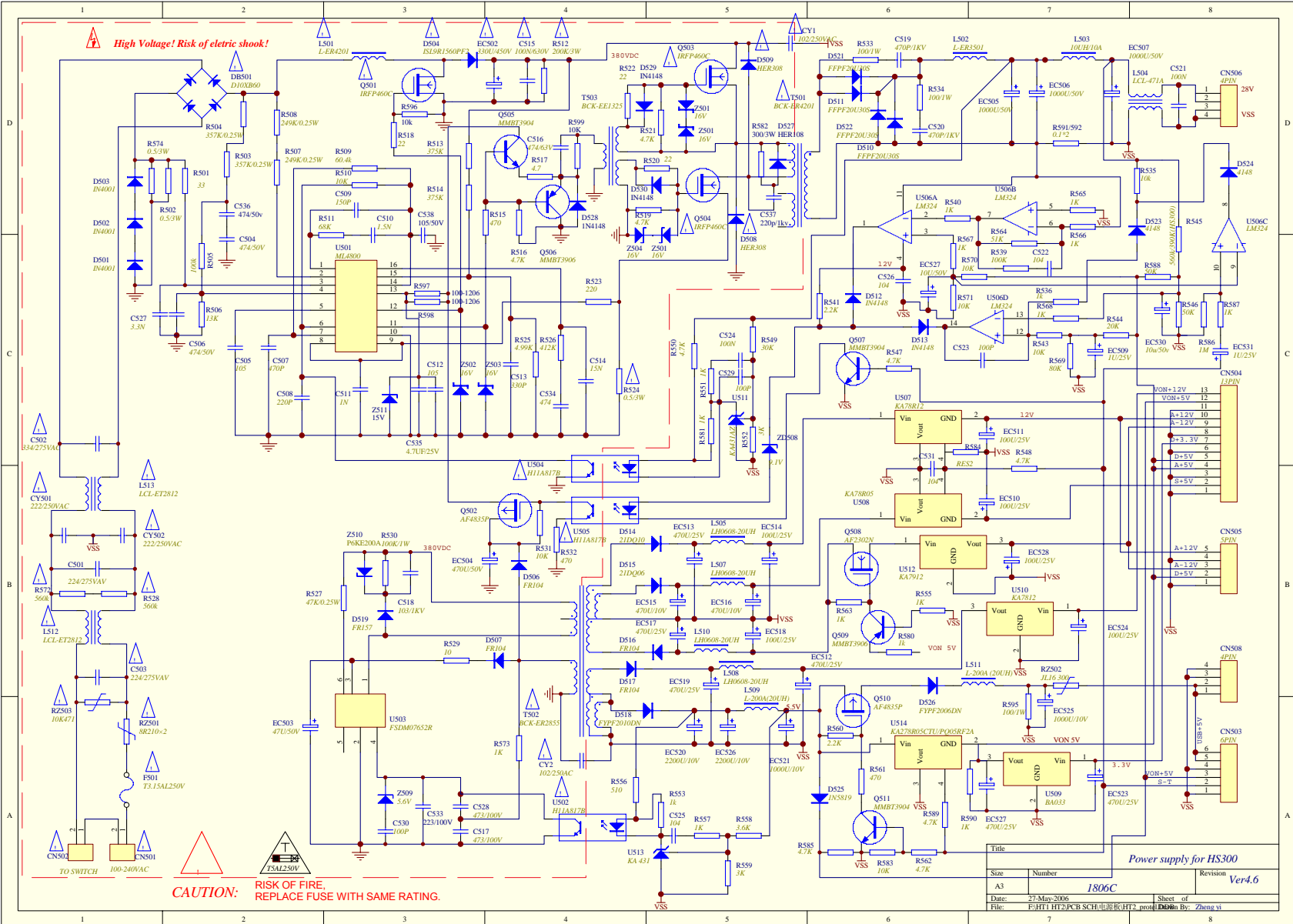
Title	HT1/HT2 FRONT PANEL: VFD board	060523
Size	A3	Document Number
Date:	Friday, June 02, 2006	1819C
Sheet	17	of 20
Rev	1.5	



Title		
HT1/HT2 FRONT PANEL: Volume board 060405		
Size	Document Number	Rev
A3	1820C	1.5
Date:	Friday, June 02, 2006	Sheet 18 of 20

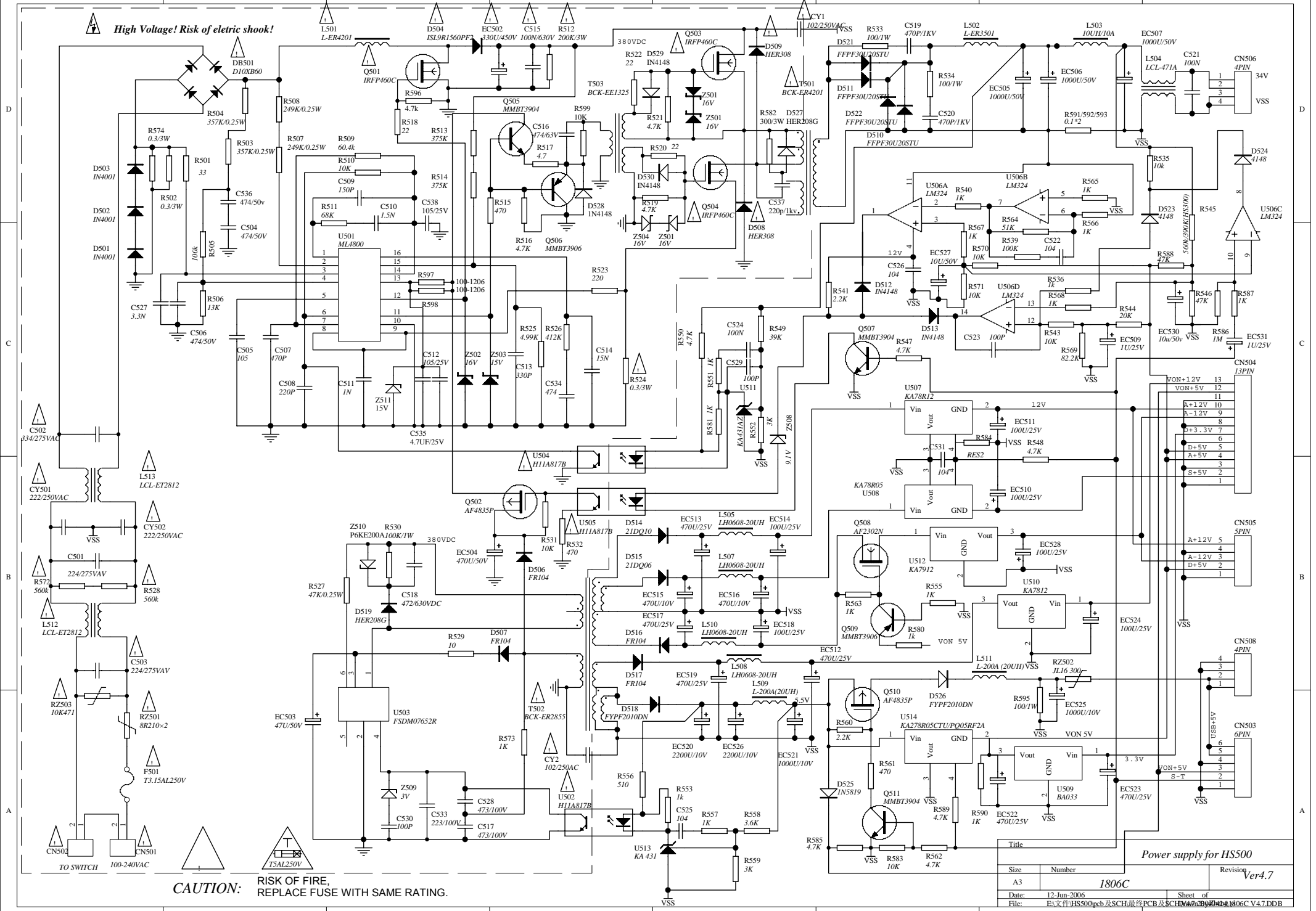


Title			
HT1/HT2 FRONT PANEL: Standby board		060228	
Size	Document Number	Rev	
A3	1822C	1.3	
Date:	Friday, June 02, 2006	Sheet	20 of 20



**CAUTION: RISK OF FIRE, REPLACE FUSE WITH SAME RATING.**

Title		Power supply for HS300		Revision		Ver4.6	
Size	Number	1806C		Sheet of			
A3							
Date:	27-May-2006						
File:	F:\HT1_HTP2\PCB SCH\电源板HT2.pcb	Drawn By: Zheng yu					



High Voltage! Risk of electric shock!

CAUTION: RISK OF FIRE, REPLACE FUSE WITH SAME RATING.

Title		Power supply for HS500	
Size	Number	Revision	Ver4.7
A3	1806C		
Date:	12-Jun-2006	Sheet of	
File:	EV文件HS500pcb及SCH最终PCB及SCH	1806C V4.7.DDB	