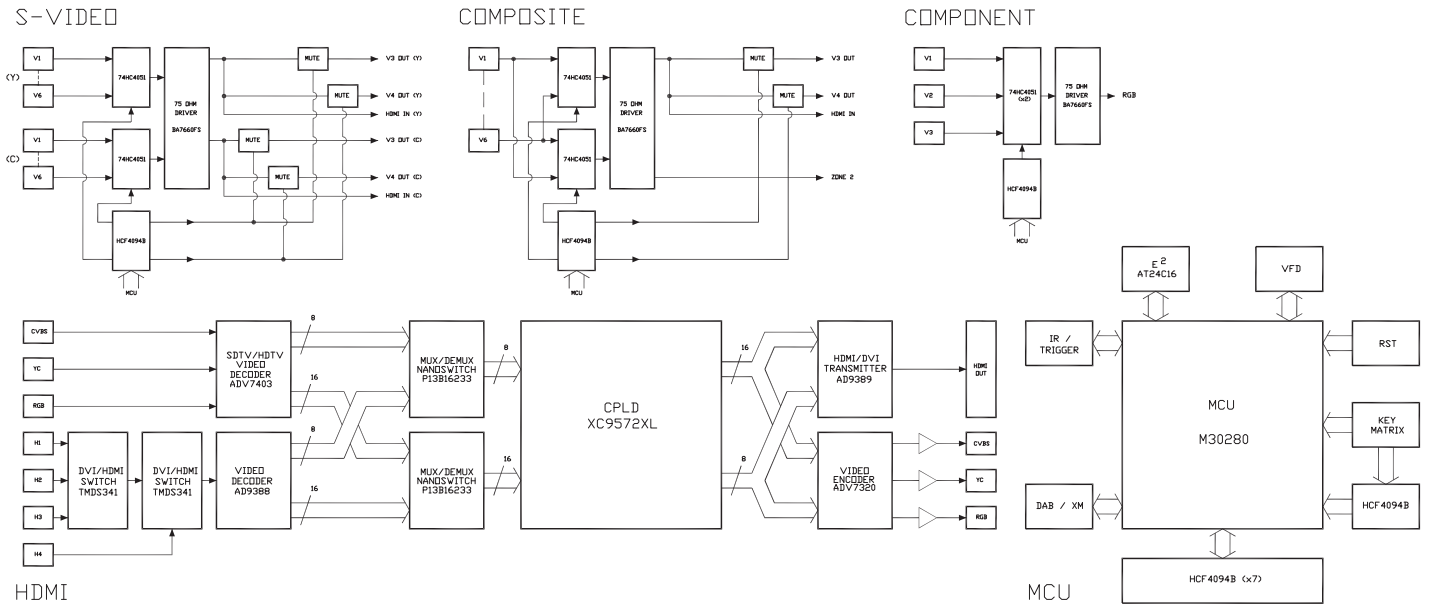
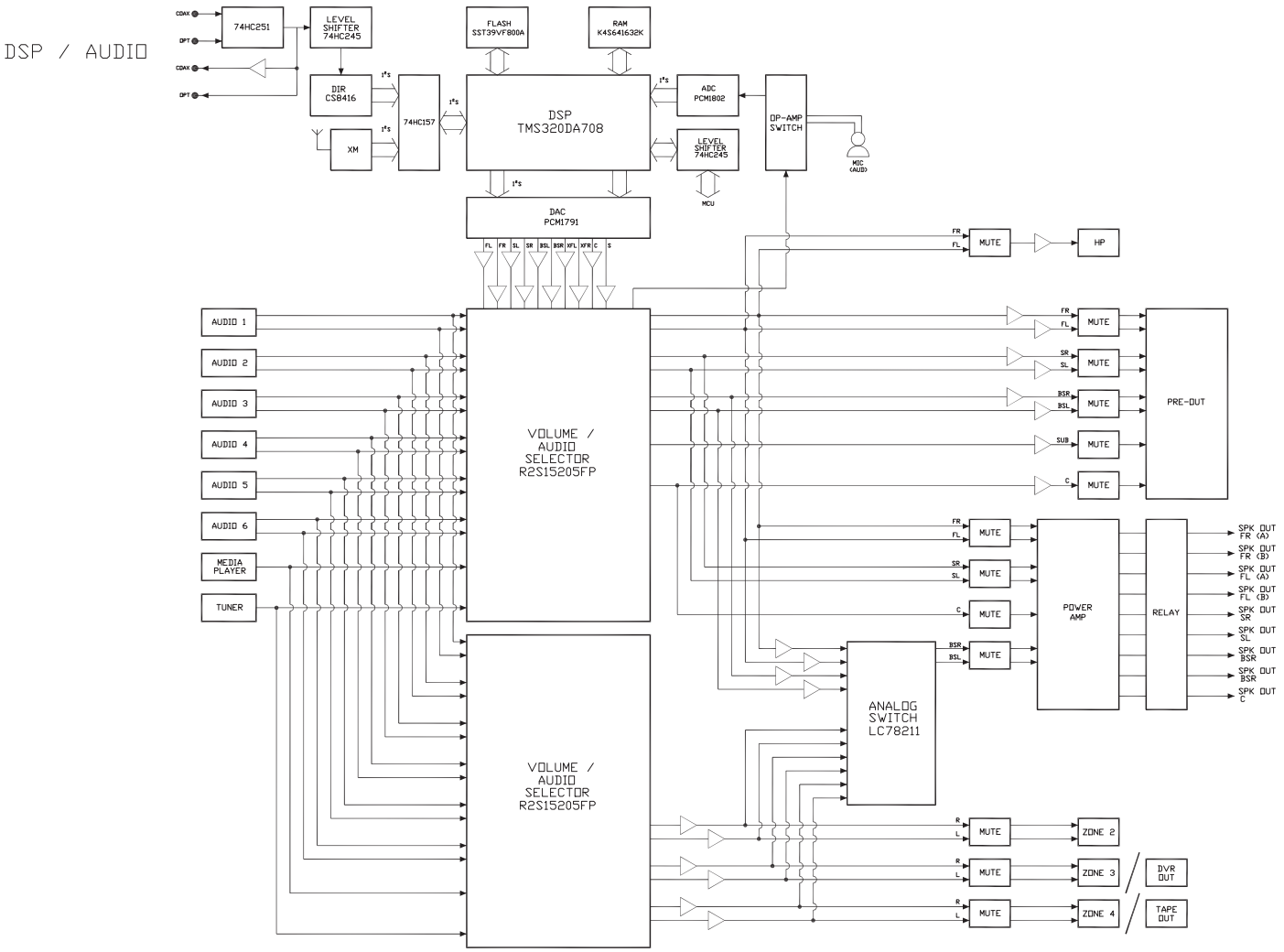
WIRING DIAGRAM PARTS LIST

Item	Database Part Number	Description	Remark
1	17-012-2965-90	CABLE ASSY 4 WAYS #26 2.5P L=400mm	PSU BD-J8002A
2	17-012-3943-90	CABLE ASSY 1 WAY #16 UL1672 BLUE L=140mm FASTON 4.8mm	PSU BD-J8011
3	17-012-3944-90	CABLE ASSY 1 WAY #16 UL1672 BROWN L=140mm FASTON 4.8mm	PSU BD-J8012
4	17-012-3940-90	CABLE ASSY 3 WAYS #26 2.5P UL2854 L=110	VOL BD-J6004A/B
5	17-012-3938-90	CABLE ASSY 1 WAY #18 UL1007 L=320MM W/ HEADER	DSP BD-J1002A
6	17-012-3378-90	CABLE ASSY 20 WAYS #28 UL2651 L=240mm PCB MOUNT	KEYBOARD -J2002B
7	17-012-3173-90	CABLE ASSY 14 WAYS #26 2.5P UL1533 L=100	PRE-OUT BD-J5404B
8	17-012-3176-90	CABLE ASSY 3 WAYS #18 3.96P UL1007 L=80	SEC BD-J5804B
9	17-012-3208-90	CABLE ASSY 4 WAYS #18 3.96p UL1007 L=150	SEC BD-J8101A,J8102A
10	17-012-3209-90	CABLE ASSY 4 WAYS #18 3.96P UL1007 L=170	SEC BD-J8103A+J8104A
11	17-012-3174-90	CABLE ASSY 5 WAYS #18 3.96P UL1007 L=300mm (W/R/B/V/O)	SPK BD-J5403B1-B5
12	17-012-3947-90	CABLE ASSY 4 WAYS #18 3.96P UL1007 L=260 (W/R/Y/BL)	SPK BD-J5802B1-B4
13	17-012-3329-90	CABLE ASSY 3 WAYS #18 UL1007 3.96P L=420	SPK BD-J8106B1-B3
14	17-012-3330-90	CABLE ASSY 4 WAYS #18 UL1007 3.96P L=440	SPK BD-J8105B1-B4
15	17-012-3171-90	CABLE ASSY 6 WAYS #26 2.5P UL1533 L=200	V6 VD-J2006B
16	17-012-3404-90	CABLE ASSY 6 WAYS #26 2.5P UL1007 L=150	V6 BD-J2005B
17	17-012-3939-90	CABLE ASSY 3 WAYS #26 2.5P UL2468 L=180	ISC BD-J5803B,J5810B
18	17-012-3930-90	CABLE ASSY 4 WAYS #26 2.5P UL1533 L=160	V6 BD-J2008A
19	17-012-3936-90	CABLE ASSY 3 WAYS #26 2.5P UL2854 L=310	CONN#1-J9006A
20	17-012-3937-90	CABLE ASSY 5 WAYS #26 2.5P UL2854/1533 L=230/320	CONN#1-J9004A/J9005A
21	17-012-3938-90	CABLE ASSY 1 WAY #18 UL1007 L=320 W/ HEADER	CONN#1-JP9001A
22	17-012-3941-90	CABLE ASSY 3 WAYS #26 2.5P UL2854 L=130	CONN#1-J9008A/B
23	17-012-3457-90	CABLE ASSY 8 WAYS #26 UL1007 2.5P L=120	CONN#2-J8202B
24	17-012-3458-90	CABLE ASSY 10 WAYS #26 UL1007 2.5P L=80	CONN#2-J8201B
25	17-010-0122-90	FFC CABLE 17 PINS P1.25 L=360 15 & 16 PINS VOID	TUNER-J5404B
26	17-012-2874-90	CABLE ASSY 1 WAY #16 UL1672 BLUE L=100mm	J8015,J8017
27	17-012-2875-90	CABLE ASSY 1 WAY #16 UL 1015 GREEN/YELLOW L=100	CHASSIS GND, AC OUTLET GND
28	17-012-3166-90	CABLE ASSY 20 WAYS #28 UL2651 L=100mm	J2001C,J7001C
29	17-012-3298-90	CABLE ASSY 3 WAYS #18 UL1007 L=420mm	J5402A/B
30	17-012-3346-90	CABLE ASSY 26 WAYS #28 UL2651 L=330mm	J2301C
31	17-012-3942-90	CABLE ASSY 26 WAYS #28 UL2651 L=230mm	J2007C
32	17-012-3948-90	CABLE ASSY 1 WAY #16 UL1672 BROWN L=100	J8013,J8016
33	17-012-3963-90	CABLE ASSY 1 WAY #18 UL1007 L=200 W/ HEADER	TUNER-J6102A
34	17-012-3965-90	CABLE ASSY 3 WAYS #26 2.5P UL2547 L=500	TUNER-J9501A
35	17-012-2924-90	CABLE ASSY 1 WAY AWG18 UL1015 BLACK L=260mm W/RING TERMINAL	MAIN-JP7006B-GND, SEC BD-J8153A-GND

BLOCK DIAGRAM





T775
Block Diagram
Issue : 01

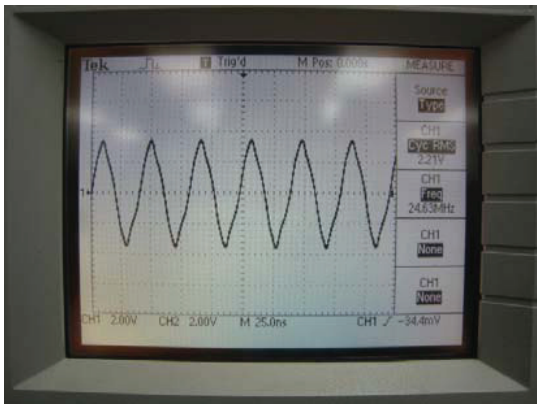
SPECIAL FUNCTION

Function	Keys	Notes
Factory Reset AH	Source Down + Front/MP	
Factory Reset C	Source UP + Front/MP	
Toggle IR Channel	Source Down + Power	Only for v1.08 or higher.
Check MCU Version	Source Down + Source UP	For v1.03 or higher, this checks all versions.
Check DSP Version	Source Down + Listening Mode	Only for v1.02 or older.
Check Current Video Mode	Source Down + Tone Controls	
MIC Test	Source Down + Tone Defeat	
VFD Test	Source Down + Display	
PAL/NTSC	Source Down + Memory	
DAB/XM	Source Down + Tuner Band	Must cycle power before change takes effect.
9k/10k	Source UP + Tuner Band	Must reselect AM before change takes effect.
XM 1kHz Test Tone	Tuner Band + Tuner Mode	XM must be selected first.
XM Signal Strength	Tuner Mode for 0.5 seconds	XM must be selected first.
XM Diagnostics Mode	Tuner Mode for 3 seconds	XM must be selected first.
Check DAB Module Version	Tuner Mode for 3 seconds	DAB must be selected first.
Enter Diagnostics Mode	Source Down + Enter	
Diagnostic Mode Down	Source Down + Cursor Right	
Diagnostic Mode Up	Source Down + Cursor Left	
Power Off All Zones	Power Toggle or Power Off for 3 seconds	

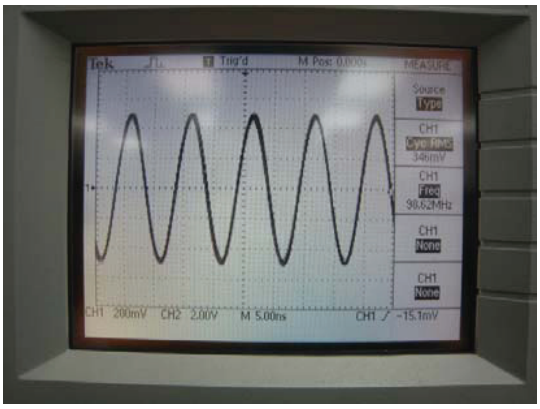
DETAILS & WAVEFORMS ON SYSTEM TEST & DEBUGGING

DSP

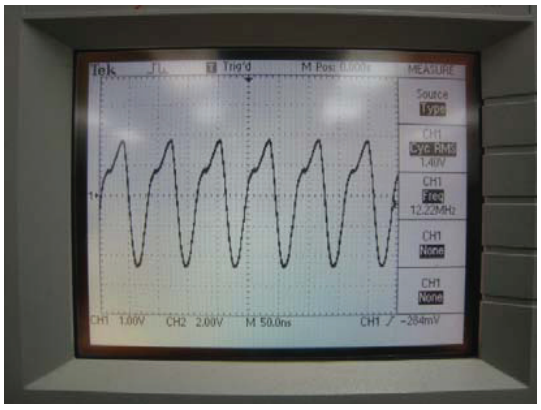
U1007 Pin 17 - X1001C output, 24.576MHz



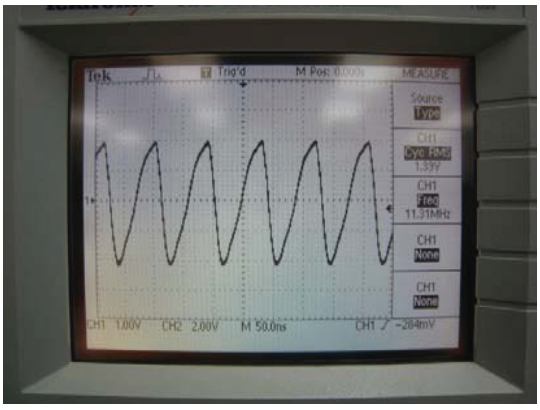
U1007 Pin 70 - Clock for external memory, 100MHz



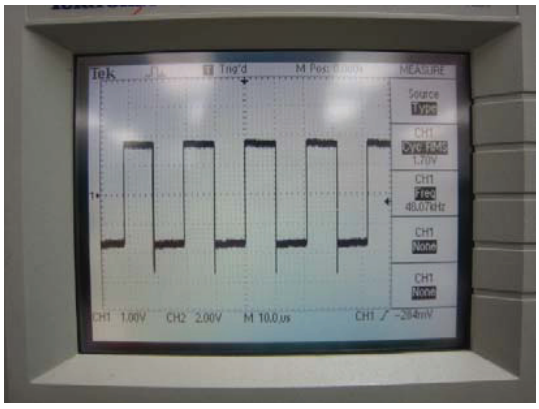
U1007 Pin 2 - Master clock (Analog), 12.288MHz



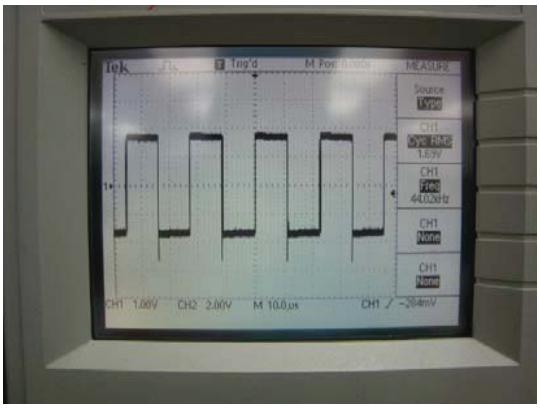
U1007 Pin 2 - Master clock (PCM), 11.2896MHz



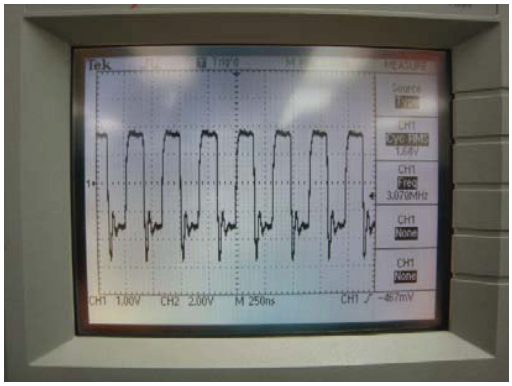
U1007 Pin 12 – Left/Right clock (Analog), 48kHz



U1007 Pin 12 - Left/Right clock (PCM), 44.1kHz

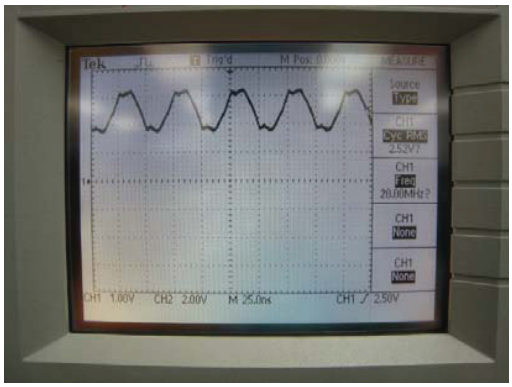


U1007 Pin 9 - Serial clock (Analog), 3.072MHz



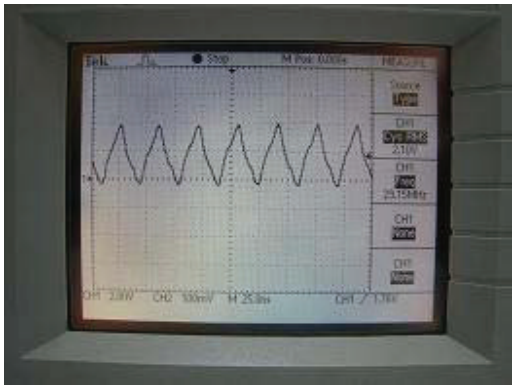
MCU

U2001 Pin 12 - X2001A output, 20.000MHz

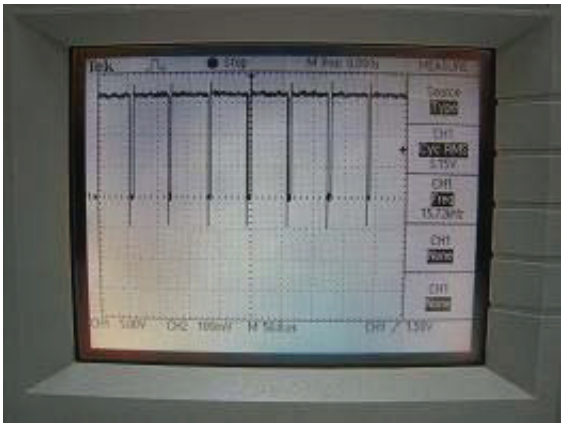


HDMI

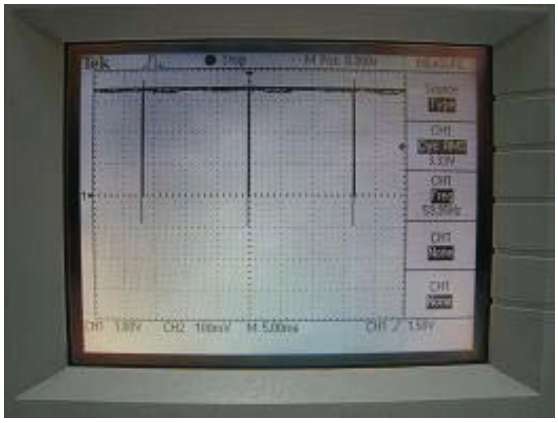
U12 Pin 38 – U3 output, 28.636MHz



U9 Pin 1 –DAC_HS (OSD Off), 31.48kHz

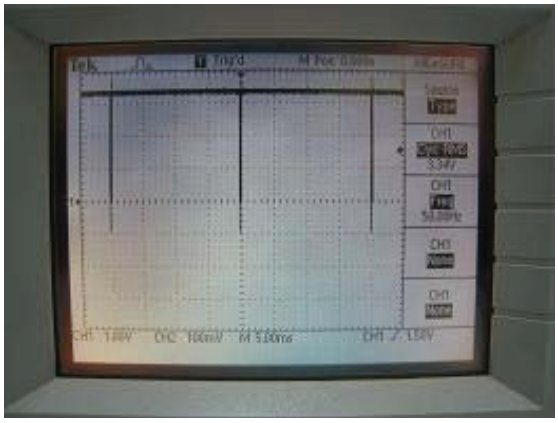


U9 Pin 54 –DAC_VS (OSD On, NTSC), 60Hz

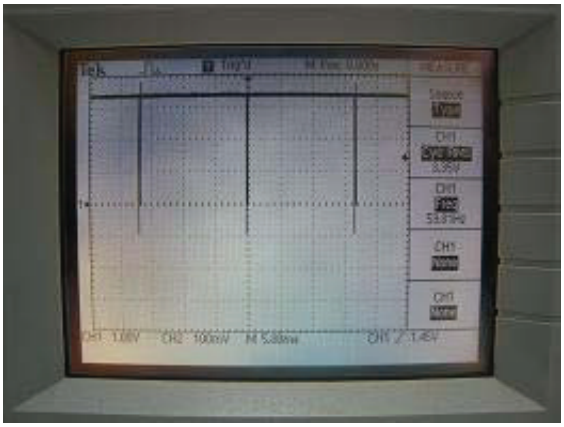


U9 Pin 1 –DAC_HS (OSD On), 15.72kHz

U9 Pin 54 –DAC_VS (OSD On, PAL), 50Hz

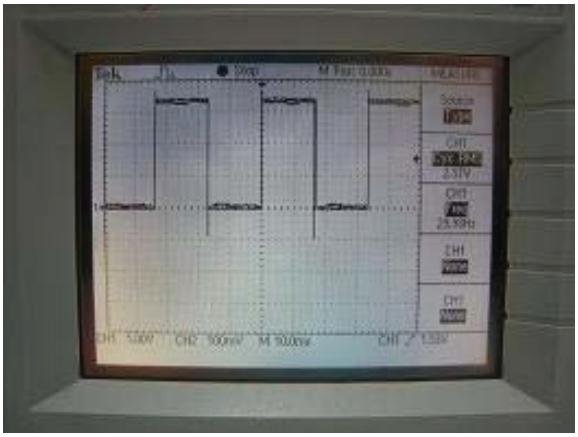


U9 Pin 54 –DAC_VS (OSD Off), 60Hz

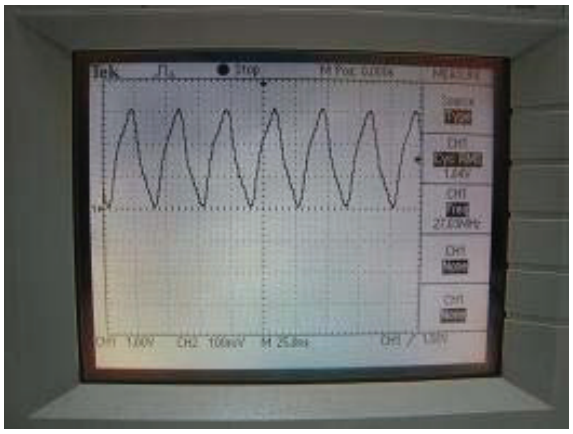


U9 Pin 4 –DAC_FLD (OSD Off), Idle

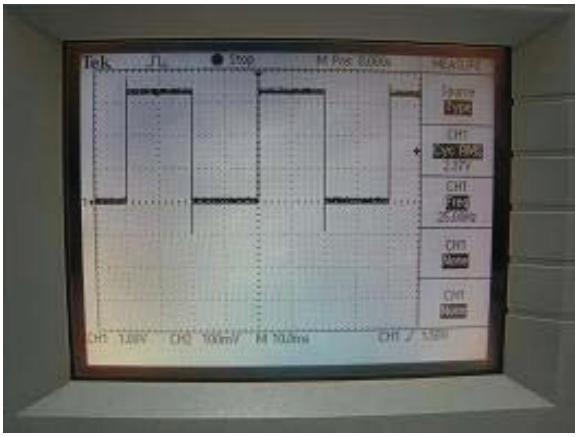
U9 Pin 4 –DAC_FLD (OSD On, NTSC), 30Hz



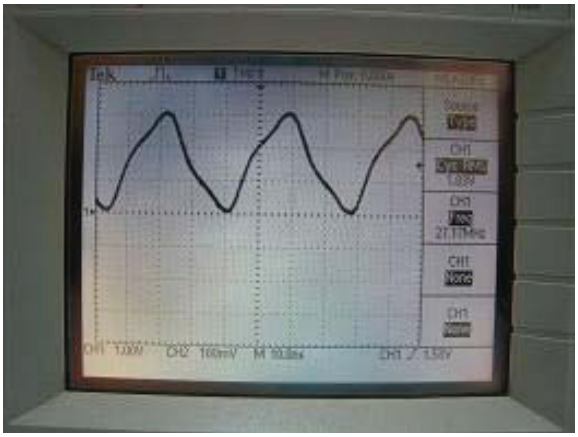
U9 Pin 51 –PCLK (OSD On), 27MHz



U9 Pin 4 –DAC_FLD (OSD On, PAL), 25Hz

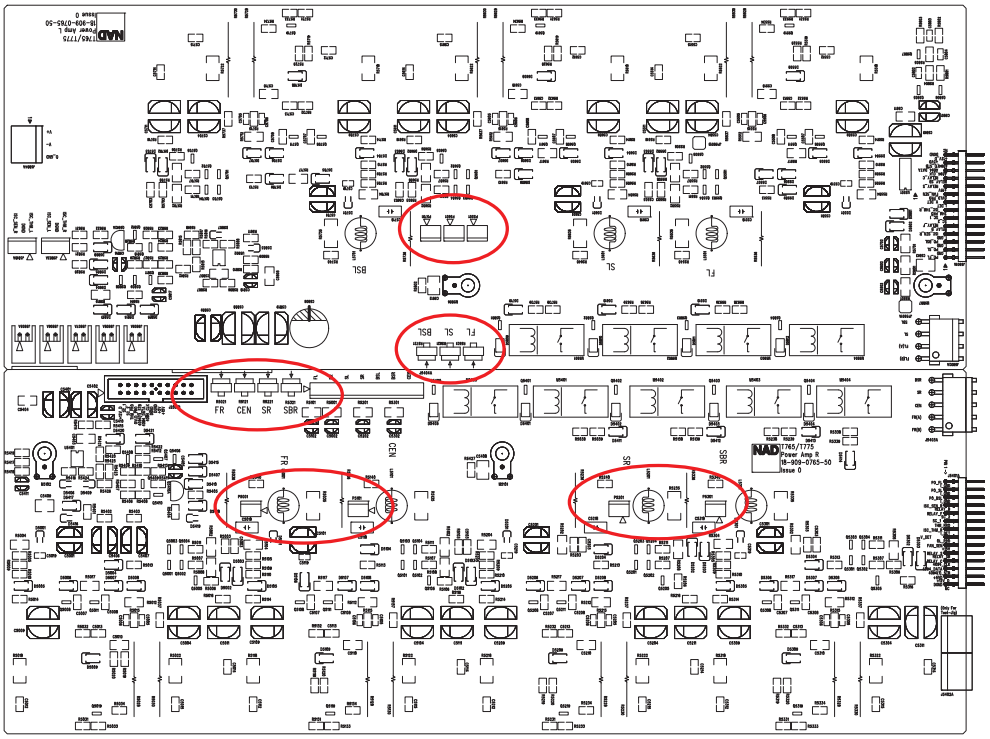


U9 Pin 51 –PCLK (OSD Off), 27MHz

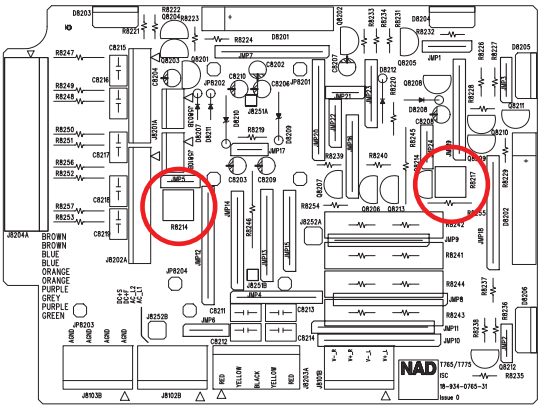


ADJUSTMENT POINT DIAGRAM

LEFT/RIGHT CHANNEL AMPLIFIER BOARD



SECONDARY / ISC BOARD



AMPLIFIER ADJUSTMENT

Idle Current

1. Rotate R5221 fully clockwise.
2. Connect DC millivoltmeter to P5501 (i.e. Across half of R5228 and R5530, 0.22 Ohm resistor).
3. Turn on the unit.
4. Adjust R5221 for 2mV +/- 0.2mV reading on voltmeter.
5. Leave power on for at least 5 min, and check for idle current again.
6. Repeat for other channels.

CHANNEL	JUMPER	VR
FL	P5501	R5521
FR	P5001	R5021
C	P5101	R5121
SL	P5601	R5621
SR	P5201	R5221
BS	P5701	R5721
BSR	P5301	R5321

ISC Adjustment

A. Rotate R8214 fully clockwise.
B. Use 500mV, 1kHZ sine wave, EXT7.1 input, 8ohm loading to all channels.
C. Increase the output power of FL/SL/BSL channels to 80W(25.3V).
D. Note the THD readings should be larger than 0.2%.
E. Rotate R8214 anti-clockwise slowly until the THDreadings is below 0.1%.
F. Repeat for R8217 using FR/SR/BSR/C channels.