

Instruction Manual for Models

ADP700.1

ADP1200.1

ADP1000.4

ADP1500.6

ADMP500.1

ADMP2002.

ADMP400.4

ADMP900.6

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Technology

AD DESIGNS is proud to introduce these new amplifiers to the market. They employ state of the art electronics with class leading technology.

The ADP series employ fully regulated power supplies which deliver constant output voltage independent of the vehicle's battery voltage. Should the vehicle's battery voltage drop below about 11.5 volts, the amplifiers will simply loosen up their regulated status and only continuous output power would reduce slightly. The output power with music shall remain essentially the same.

ADP amplifiers employ 24dB/octave Linkwitz-Riley crossovers for both High and Low pass types and ultra low noise integrated circuits are used throughout the front end stages.

The ADMP series employ quasi regulated power supplies which are dependent on the value of the vehicle's battery voltage.

ADMP amplifiers employ 12dB/octave Linkwitz-Riley crossovers for both High and Low pass types except the ADMP 500.1 which has 24dB/octave Linkwitz-Riley crossovers and ultra low noise integrated circuits are used throughout the front end stages.

All AD DESIGNS amplifiers have the following features unless noted: * Balanced or unbalanced inputs, switchable by either PCB DIP switch or front panel switch depending on model type.

* Auto turn on via DC voltage sense on inputs when in BALANCED mode only. Damage will de done to head units with BTL outputs if connected to an UNBALANCED input.

* If the hard wired remote turn on feature is used, the auto turn is automatically disabled.

* All the amplifiers feature APEC circuitry which prevents clipping and distortion. The current consumption (and heat) are vastly reduced when APEC is activated.

* Each amplifier (except ADMP 900.6) feature peak power LEDs on both front panel and the remote. The remote's LED turns from **GREEN** to **RED** when peak power is reached.

* The amplifiers are protected against over voltage of the battery supply (16.3v shut down), reverse polarity of the battery connections, thermal shut down should the heat sink temperature reach 75 deg C (167 def F), DC protect should and DC in excess of about plus or minus 5 volts appear on any speaker output and short circuit protection on the speaker outputs. (AD does not recommend deliberately shorting the speaker leads or shorting speaker leads from one

Channel to the other.

* All high value electrolytic capacitors used are low ESR 105 deg C types and these have been chosen for their sonic qualities.

* Since every class D amplifier employs a reconstruction filter at it's output, the quality of the inductor and capacitor are critical for good sound quality. Wima high pulse current type are used on every amplifier's filter and low loss powdered iron or gapped ferrite cores are used for the inductors.

* The class D amplifiers on every model use ultra low gate charge MOSFETs which are critical for the operation of these full range class D amplifiers. Even the mono blocks use the same full range designs!

* Power supplies are all over built in terms of transformer size and the quality of the MOSFETs used as well as their unique drive circuits. The size of the transformer and operating frequency of the switch mode power supply determine the ultimate amount of energy which can be extracted. Typical supplies use a switching frequency of between 25 to 40KHz. We use 75KHz which means that we can extract between 1.5 to 2.2 times the power from a given transformer core. The MOSFETs we use are also low gate charge high current types. Even though the manufacturer of the MOSFETs rate them at 98 amps each, the physical facts rule. The leads of the MOSFET are not capable of carrying anywhere close to 98 amps! We limit the peak current of any power supply MOSFET to about 30 amps.

* The control circuits which are activated in the boot up procedure of the amplifiers are optically isolated from the audio circuits.

* Every AD DESIGNS amplifier uses 4 layer FR4 PCB material. Why? Several reasons. Multiple ground planes are employed as we have four available layers to use and these ground planes allow us to drastically lower the radiated EMI of these amplifiers. The routing of critical PCB tracks is enhanced as we have the extra two layers to use.

* The full range class D amplifier sections all operate at about 370KHz which is in the "sweet spot" of efficiency versus radiated EMI versus sound quality.

* The amplifiers which have more than one channel have their class D clocks locked at a single frequency which eliminates the beat frequencies we often encounter in most multi channel class D amplifiers out there.

* Great attention has been paid to the layout of the PCBs due to the fact that in high frequency switching circuits, PCB layout is as critical as the electronic design itself.

* ADP 700.1/1200.1 may be bridged with a 4 ohm load to deliver 1400w and 2400w respectively OR may be cascaded with each subsequent amplifier driving it's own woofer where the master's controls affect all further cascaded amplifiers.

Specifications for ADP Amplifiers Page 3

Specification	ADP700.1	ADP1200.1	<u>ADP1000.4</u>	ADP1500.6					
Output @ 4 ohm Output @ 2 ohm	500 watts 700 watts	800 watts 1200 watts	170w x 4 250w x 4	170w x 6 250w x 6					
Compared Continuous Power With APEC fully engaged on Subwoofers	1500 watts	2500 watts	1000w x2	1000w x 3					
Input Sensitivity (Unbalanced) Input Sensitivity (Balanced)		0.25v to 8v 0.5v to 16v							
Input Impedance at 1KHz Input Impedance at 1KHz		.2K ohm balar · 8.2K ohm unl							
Frequency Response		10Hz to 35KHz	: -1dB						
THD @ 2KHz 4 ohm	<0.25%	<0.25%	<0.1%	<0.1%					
Noise below rated output A weighted	-96dB	-98dB	-94dB	-94dB					

All crossovers are 24dB/octave Linkwitz-Riley

High Pass Crossover		10Hz-150Hz	N/A	N/A
High Pass Crossover Ch 1+2	N/A	N/A	55Hz-4KHz	55Hz-4KHz
High Pass Crossover Ch 3+4	N/A	N/A	10Hz-1KHz	55Hz-4KHz
High Pass Crossover Ch 5+6	N/A	N/A	N/A	10Hz-1KHz
Low Pass Crossover		40Hz-230Hz	N/A	N/A
Low Pass Crossover Ch 1+2	N/A	N/A	55Hz-4KHz	N/A
Low Pass Crossover Ch 3+4	N/A	N/A	55Hz-4KHz	55Hz-4KHz
Low Pass Crossover Ch 5+6	N/A	N/A	N/A	50Hz-1KHz
Remote Level Port	Yes	Yes	Yes	Yes
Fuse Rating with 4 ohm	30A	40A	25A**	40A **
Fuse Rating with 2 ohm	60A	80A	50A**	60A**
	1. A.			

** These fuse ratings should be lowered if channels are run in High Pass mode due to the fact that the energy contact is substantially reduced (thus current draw) when channels are in HP mode. A 30% reduction is a good number.

Size (232 x 51.4mm)	250.5mm	347.7mm	250.5mm	347.7mm
Size (9.13"x 2.02")	9.86"	13.69"	9.86"	13.69"
Net Weight (Kg)	3.4	3.98	3.4	3.98

Specifications for ADMP Amplifiers

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Specification	ADMP500.1	ADMP200.2	ADMP400.4	ADP900.6
Output @ 4 ohm	300 watts	100w x 2	80w x 4	80w x 4
Output @ 2 ohm	500 watts	125w x 2	110w x 4	200w x 2 110w x 4
Compared Continuous Power				280w x 2
with APEC fully engaged on subwoofers	1000w	500w x 1	500w x 2	500w x 2
Input Sensitivity (Unbalanced)		0.25v to	8v	1000w x 1
Input Sensitivity (Balanced)		0.5v to 1		
Input Impedance at 1KHz		2K ohm balar		
Input Impedance at 1KHz		8.2K ohm un	balanced	
Frequency Response	,	10Hz to 35KH	z -1dB	
THD @ 2KHz 4 ohm	<01%	<0.1%	<0.1%	<0.1%
Noise below rated output				
A weighted	-95dB	-89dB	-89dB	-89dB -93dB
ADMP500.1 has 24dB/octave cr	ossovers, all c	others 12dB/o	ctave, all Linl	kwitz-Riley
High Pass Crossover	10Hz-150Hz		N/A	N/A
High Pass Crossover Ch 1+2 High Pass Crossover Ch 3+4	N/A N/A	10Hz-400Hz N/A	55HZ-4KHZ 10Hz-1KHz	55Hz-4KHz 10Hz-1KHz
High Pass Crossover Ch 5+6	N/A	N/A	N/A	10Hz-1KHz
	4011- 04011-	N //A		NI/A
Low Pass Crossover Low Pass Crossover Ch 1+2	40Hz-240Hz N/A	N/A 55Hz-4KHz	N/A N/A	N/A N/A
Low Pass Crossover Ch 3+4	N/A	N/A	55Hz-4KHz	55Hz-4KHz
Low Pass Crossover Ch 5+6	N/A	N/A	N/A	50Hz-1KHz
Remote Level Port	Yes	Yes	Yes	Yes
Fuse Rating with 4 ohm	30A	15A**	20A **	25A**
Fuse Rating with 2 ohm ** These fuse ratings should be	50A	25A**	30A**	40A**

** These fuse ratings should be lowered if channels are run in High Pass mode due to the fact that the energy contact is substantially reduced (thus current draw) when channels are in HP mode. A 30% reduction is a good number.

Size (151 x 49.9mm)	209.85mm	209.85mm	209.85mm	340.8mm
Size (5.94"x 1.96")	8.26"	8.26"	8.26"	13.4"
Net Weight (Kg)	2.0	2.0	2.0	3.3
Net Weight (Ibs)	4.4	4.4	4.4	7.26

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ADP 700.1 and ADP 1200.1

Single amplifier driving one or two woofers

1) Set BAL/UNBAL switch to suit the source. DO NOT set to unbalanced if using a head unit which has BTL outputs.

2) Set High and Low Pass crossovers to suit the woofer

3) Set the X OVER switch to HP for the Low Pass crossover to be bypassed. This function is used for systems with DSP.

4) Set the X OVER switch to LP/BP so that the Low Pass crossover is active

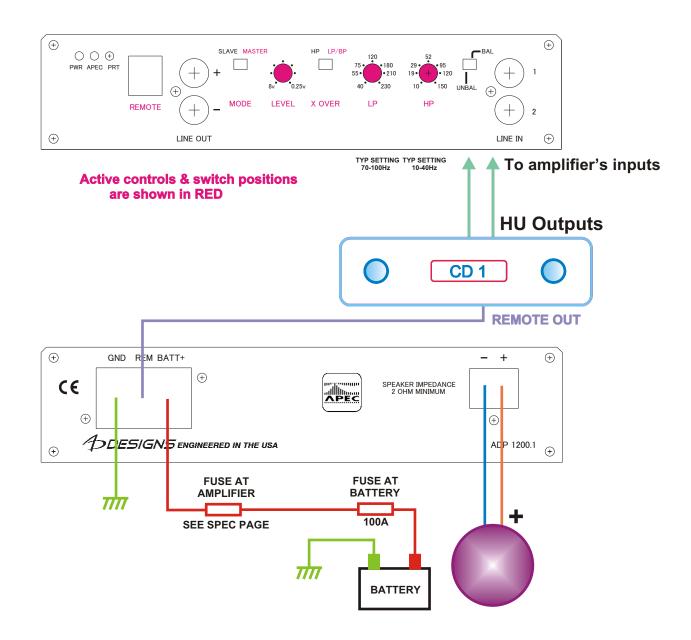
5) Set the LEVEL control to suit the signal source's output level.

6) The easiest way to set the LEVEL control is to set the volume control of the signal source to about 85-90% of it's maximum and then whilst playing your favourite CD, set the LEVEL control until the APEC LED just flashes on the loudest peaks.

7) Set the MODE switch to master.

8) If the remote level controller is used, set the LEVEL control close to fully CW.

9) Connect the woofer(s) to the speaker outputs making sure that the MINIMUM speaker impedance is 2 ohms.



ADP 700.1 and ADP 1200.1

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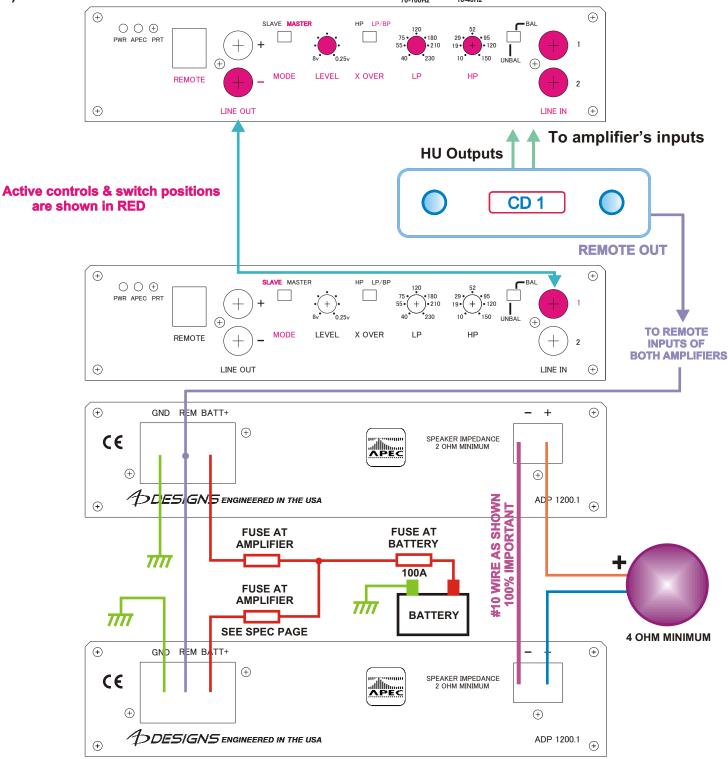
Two amplifiers BRIDGED driving one or two woofers

Set the MODE switch to master for the MASTER and to SLAVE for the SLAVE.
If the remote level controller is used, set the LEVEL control close to fully CW on the MASTER amplifier. The remote port on the slave is not active.

3) Connect the - line out of the master to the #1 line input of the slave.

4) Connect the woofer(s) as shown making sure that the MINIMUM speaker impedance is 4 ohms.

5) None of the controls on the SLAVE are active. TYP SETTING TYP SETTING 10-40Hz 10-40Hz



ADP 700.1 and ADP 1200.1

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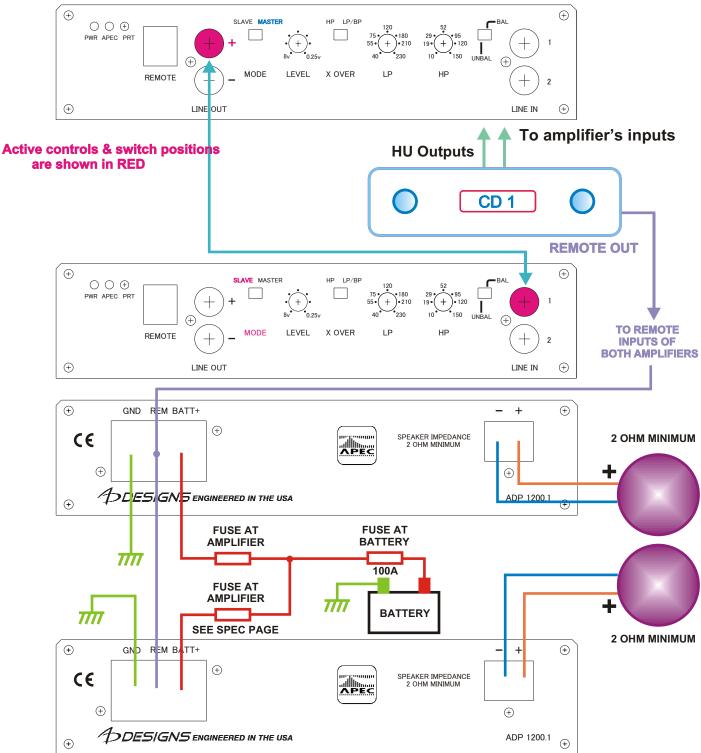
Two amplifiers IN CASCADE driving individual woofers

Set the MODE switch to master for the MASTER and to SLAVE for the SLAVE.
If the remote level controller is used, set the LEVEL control close to fully CW on the MASTER amplifier. The remote port on the slave is not active.

3) Connect the + line out of the master to the #1 line input of the slave.

4) Connect the woofers as shown making sure that the MINIMUM speaker impedance is 4 ohms.

5) None of the controls on the SLAVE are active.



ADP 1000.4

1) Set BAL/UNBAL switch to suit the source. DO NOT set to unbalanced if using a head unit which has BTL outputs. Please refer to Page 26 for details on how to do this.

2) Channels 1+2 have four modes of operation.

Full range: Set the X OVER switch to FR and all crossovers are bypassed.

High Pass: Set the X OVER switch to HP and the High Pass crossover is active.

Low Pass: Set the X OVER switch to LP and the LP MODE switch to LP and the Low Pass crossover is active

Band Pass: Set the X OVER switch to LP and the LP MODE switch to BP and both Highand Low Pass crossovers are active.

3) Channels 3+4 have four modes of operation

Full range: Set the X OVER switch to HP and set the High Pass crossover to 10Hz.

High Pass: This is a variation of above where the High Pass crossover is set to a frequency much greater than 10Hz.

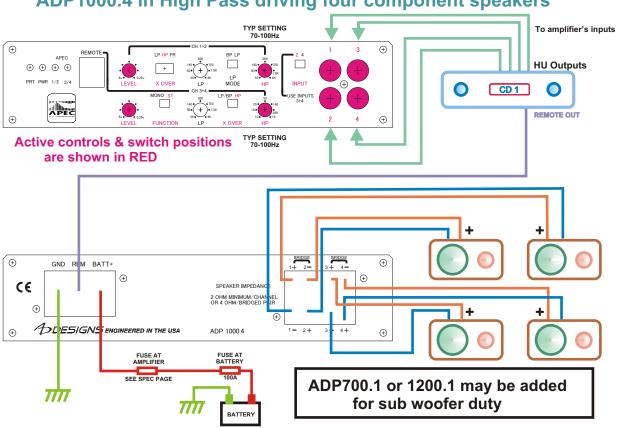
Low Pass: Set the X OVER switch to LP/BP and both High and Low Pass crossovers are active. For Low Pass the High Pass is set to 10Hz

Bandpass the High pass is typically set higher than 10Hz.

4) The FUNCTION switch when set to MONO mixes the signals of channels 3+4 to mono, feeds these to the main amplifiers and allows the use of the remote port. This is typically used when the 1000.4 is used as a three channel amplifier with channels 3+4 running subs and channels 1+2 running component speakers.

5) The switch labeled INPUT allows the use of a two channel source to drive all four channels. The signal source must be connected to inputs 3+4.

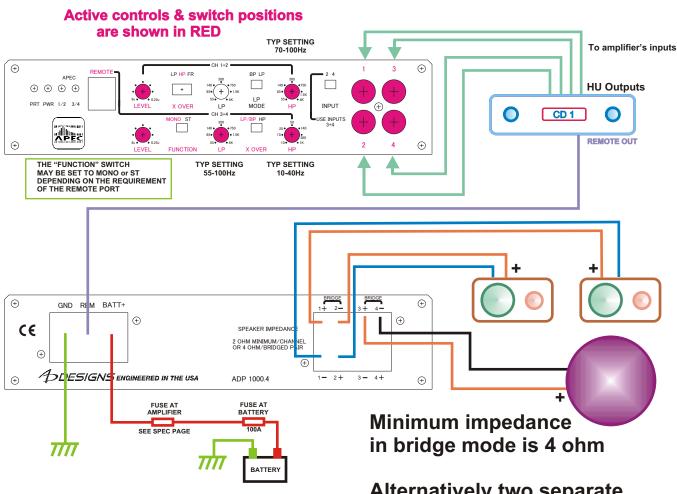
Some examples of systems using ADP1000.4 with and without ADP700.1/1200.1



ADP1000.4 in High Pass driving four component speakers

ADP1000.4

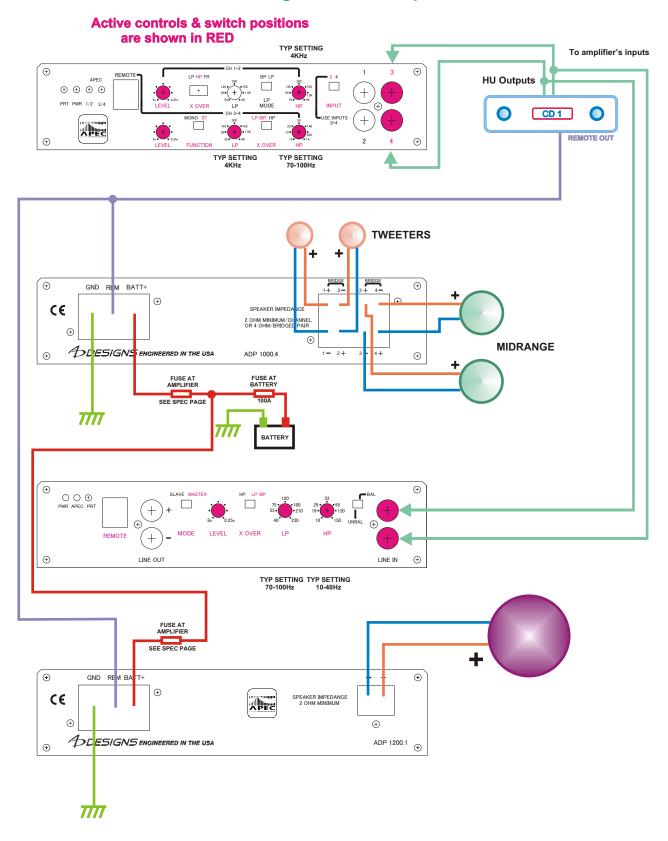
ADP1000.4 in tri channel driving component speakers off channels 1+2 and sub woofer(s) off channels 3+4 either separate woofers or in bridged mode as shown below



Alternatively two separate woofers may be connected to ch's 3+4 with a minimum impedance of 2 ohms EACH

ADP 1000.4

ADP1000.4 driving two tweeters from Ch 1+2 and Midrange from Ch 3+4 With an ADP700.1 or 1200.1 driving sub woofer speakers and a subwoofer



ADP 1500.6

1) Set BAL/UNBAL switch to suit the source. DO NOT set to unbalanced if using a head unit which has BTL outputs. Please refer to Page 27 for details on how to do this.

2) Channels 1+2 have two modes of operation. Full range: Set the X OVER switch to FR and the crossover is bypassed. High Pass: Set the X OVER switch to HP and the High Pass crossover is active.

3) Channels 3+4 have five modes of operation.

Full range: Set the X OVER switch to FR and all crossovers are bypassed.. High Pass: Set the X OVER switch to HP and the High Pass crossover is active Low Pass: Set the X OVER switch to LP and the Low Pass crossover is active Band Pass: Set the X OVER switch to LP and the MODE switch to BP and both High and Low Pass crossovers are active.

Copy 5/6: Set the MODE switch to COPY 5/6. In this mode, the signals from Ch 5+6 are fed into the Low Pass crossover of Ch 3+4. Whatever settings are done for Ch 5+6 WILL be duplicated by Ch 3+4 BUT the Low Pass crossover of Ch 3+4 is still in circuit. This mode of operation is intended to allow Ch 3+4 to duplicate Ch 5+6 when Ch 5+6 are set in Low Pass mode driving sub woofers. The Low Pass crossover of Ch 3_4 is then set to 4KHz to remove it from the passband set by the crossover sof Ch 5+6.

4) Channels 5+6 have four modes of operation

Full range: Set the X OVER switch to FR and all crossovers are bypassed.. High Pass: Set the X OVER switch to HP and the High Pass crossover is active Low Pass: Set the X OVER switch to LP and the Low Pass crossover is active Band Pass: Set the X OVER switch to LP and the MODE switch to BP and both High and Low Pass crossovers are active.

5) The FUNCTION switch when set to MONO mixes the signals of channels 5+6 to mono, feeds these to the main amplifiers and allows the use of the remote port. This is typically used when the 1500.6 is used where Ch 5+6 are running sub woofers.

6) The switch labeled INPUT SELECT allows the use of a two, four or six channel source. In position "6" the amplifier is a six in, six out configuration.

In position "4" the amplifier is a 4 in, 6 out configuration. Ch 1-4 feed their respective outputs and Ch 5+6 receive a mixed mono signal from Ch 1+3 and 2+4 respectively.

In position "2" the amplifier is a 2in, 6 out configuration. Ch 1 input feeds Ch 3 and 5 and Ch 2 input feeds Ch 4 and 6.

Typical modes of operation of the ADP1500.6

A) All channels in FR mode and an outboard DSP processor is used.

B) Ch 1+2 and 3+4 set to HP mode driving four component speakers with Ch 5+6 driving subs.

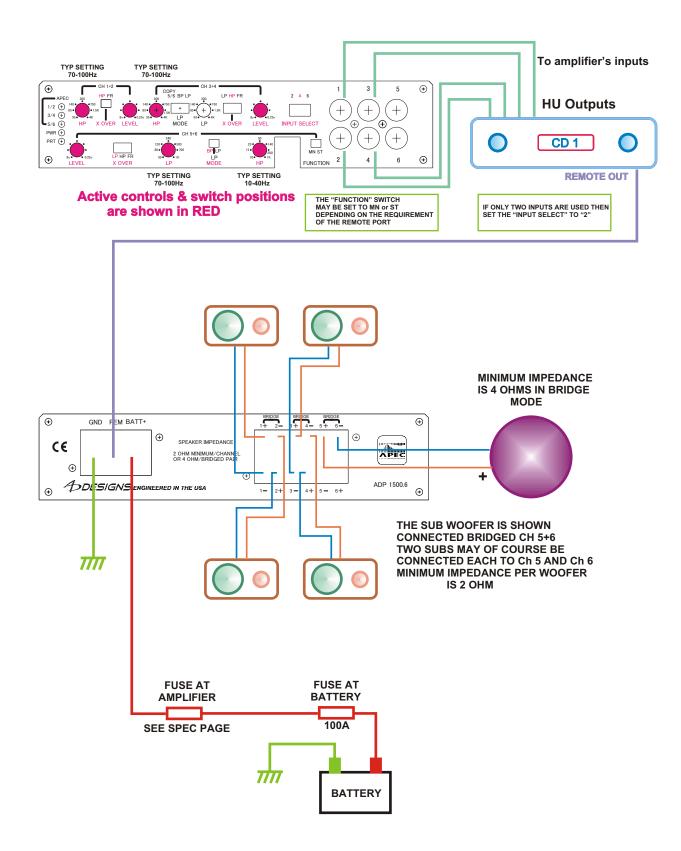
C) Ch 1+2 set to HP mode driving two component speakers and Ch 3-6 driving subs (See "copy 5/6" above.

D) Ch 1+2 in HP mode driving tweeters, Ch 3+4 in BP mode driving midrange and Ch 5+6 driving subs.

ADP 1500.6

System One

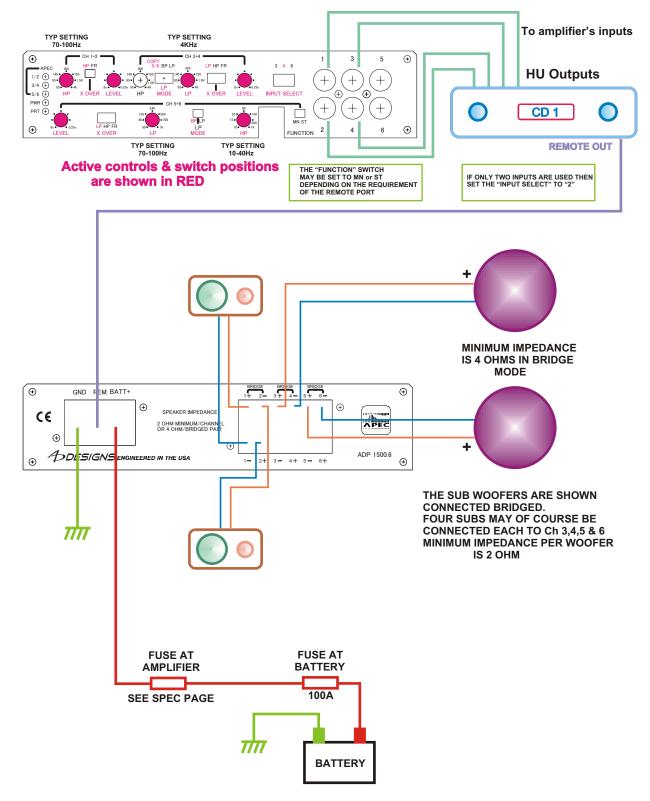
Ch 1+2 and 3+4 set to HP mode driving four component speakers with Ch 5+6 driving subs.



ADP1500.6

System Two

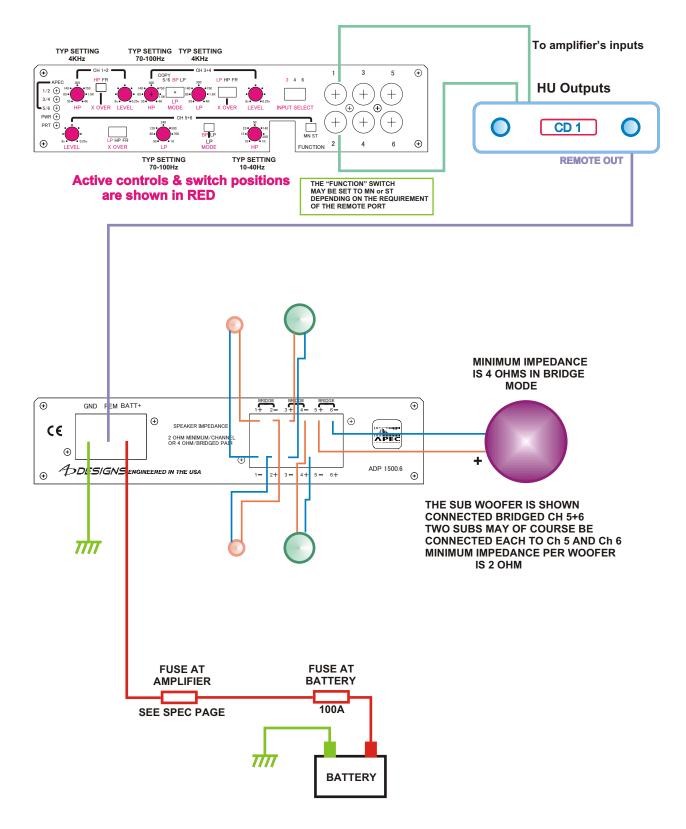
Channels 1+2 set to HP mode driving two component speakers and channels 3-6 driving either two woofers in bridge mode (as shown) or four woofers, one on each of channels 3, 4, 5 and 6.



ADP1500.6

System Three

Channels 1+2 set to HP mode driving tweeters. Channels 3+4 in BP mode driving midrange. Channels 5+5 in LP mode driving woofers.



ADMP 500.1

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Single amplifier driving one or two woofers

1) Set BAL/UNBAL switch to suit the source. DO NOT set to unbalanced if using a head unit which has BTL outputs.

2) Set High and Low Pass crossovers to suit the woofer

3) Set the X OVER switch to HP for the Low Pass crossover to be bypassed. This function is used for systems with DSP.

4) Set the X OVER switch to LP/BP so that the Low Pass crossover is active

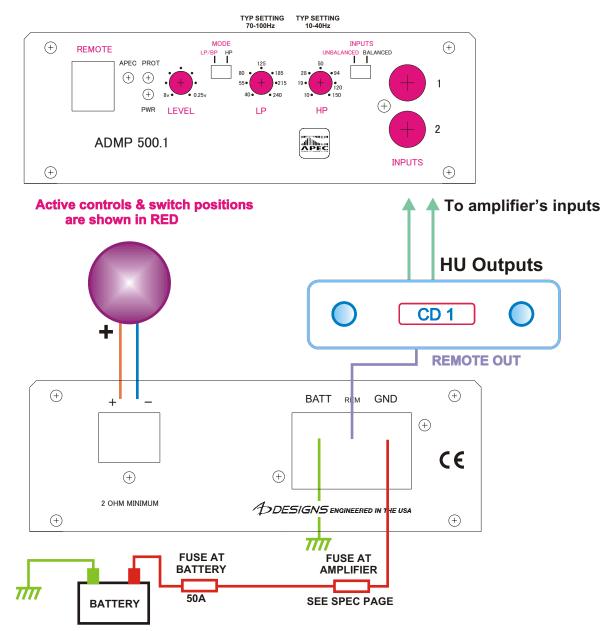
5) Set the LEVEL control to suit the signal source's output level.

6) The easiest way to set the LEVEL control is to set the volume control of the signal source to about 86-90% of it's maximum and then whilst playing your favourite CD, set the LEVEL control until the APEC LED just flashes on the loudest peaks.

7) Set the MODE switch to master.

8) If the remote level controller is used, set the LEVEL control close to fully CW.

9) Connect the woofer(s) to the speaker outputs making sure that the MINIMUM speaker impedance is 2 ohms.



ADMP 200.2

1) Set BAL/UNBAL switch to suit the source. DO NOT set to unbalanced if using a head unit which has BTL outputs. Please refer to page 28 on how to do this.

The amplifier has four modes of operation.

A) Set the MODE switch to HP, set the multiplier switch to x1, set the HP crossover to 10Hz and the amplifier runs effectively in full range.

B) Set the MODE switch to HP, set the HP crossover to a higher frequency setting, set the multiplier switch in or out depending on the high pass crossover frequency desired and the amplifier runs in High Pass mode.

C) Set the X OVER switch to LP/BP so that the Low Pass crossover is active as well.

Setting the HP crossover to 10Hz allows the amplifier to run in Low Pass.

Setting the HP crossover between 10-40Hz introduces a sub sonic filter.

Setting the FUNCTION switch to MN mixes the two channels to mono and allows the REMOTE port to function.

D) Setting the LP and HP crossovers to suitable frequencies allows the amplifier to operate in bandpass mode to drive midrange drivers in a multiway system.

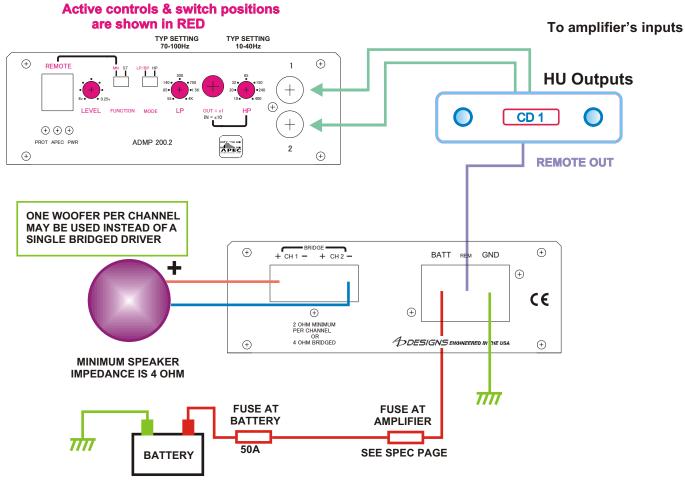
5) Set the LEVEL control to suit the signal source's output level.

6) The easiest way to set the LEVEL control is to set the volume control of the signal source to about 86-90% of it's maximum and then whilst playing your favourite CD, set the LEVEL control until the APEC LED just flashes on the loudest peaks.

7) Set the MODE switch to master.

8) If the remote level controller is used, set the LEVEL control close to fully CW.

The diagram below shows the ADMP200.2 connected for sub woofer operation.



ADMP 400.4

1) Set BAL/UNBAL switch to suit the source. DO NOT set to unbalanced if using a head unit which has BTL outputs. Please refer to page 29 on how to do this.

Channels 1+2 have three modes of operation.

A) Set the MODE switch to FR and these channels run in full range with the LEVEL control being active.

B) Set the MODE switch to HP and these channels run in High Pass mode.

C) Set the MODE switch to COPY 3+4 and channels 1+2 will follow all settings of channels 3+4 except that the two LEVEL controls will be independent.

Channels 3+4 have four modes of operation.

A) Set the MODE switch to HP and set the frequency to 10Hz. The channels now run effectively in full range.

B) Setting the HP crossover to a frequency higher than 10Hz allows these channels to operate in High Pass mode.

C) Set the MODE switch to LP/BP, set the High Pass crossover to 10Hz and set the Low Pass crossover to the desired frequency and these channels operate in Low Pass mode.

D) Setting the High Pass crossover to a higher frequency than 10Hz allows these channels to operate in Band Pass mode.

E) Setting the FUNCTION switch to MN, mixes the 3+3 signals to mono and invokes the remote port.

2) Set the LEVEL controls to suit the signal source's output level.

3) The easiest way to set the LEVEL control is to set the volume control of the signal source to about 85-90% of it's maximum and then whilst playing your favourite CD, set the LEVEL control until the APEC LED just flashes on the loudest peaks.

4) If the remote level controller is used, set the LEVEL control close to fully CW.

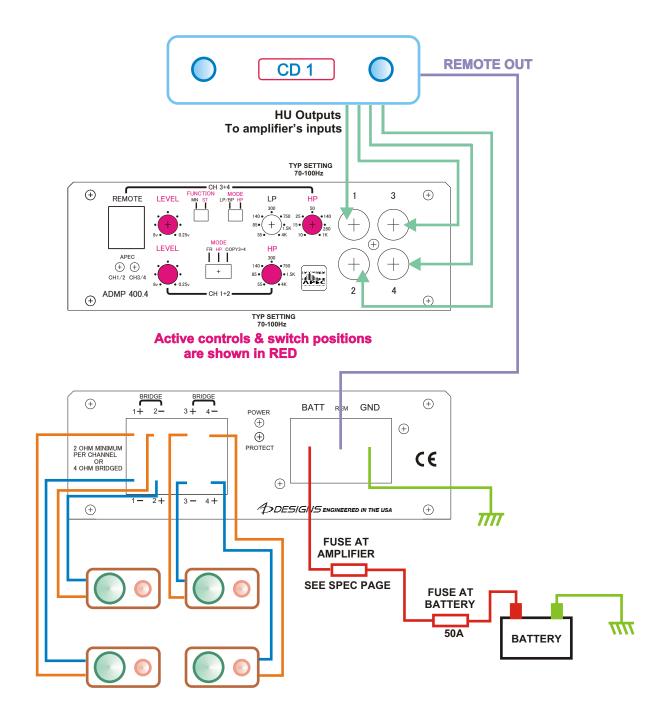
5) The ADMP400.4 can be set up as a higher powered two channel amplifier. Set the MODE switch of Ch 1+2 to COPY 3+4. Set the crossovers on ch 3+4 to suit your application and connect the two speakers to the terminals marked "BRIDGE" on the rear panel.

As an example setting ch 3+4 to HP allows either high power full range operation with HP set to 10Hz.

Setting the MODE switch to LP/BP and setting the HP crossover at between 10Hz-50Hz (Now functions as a subsonic crossover) and the LP to an appropriate frequency allows the amplifier to drive a pair of sub woofers.

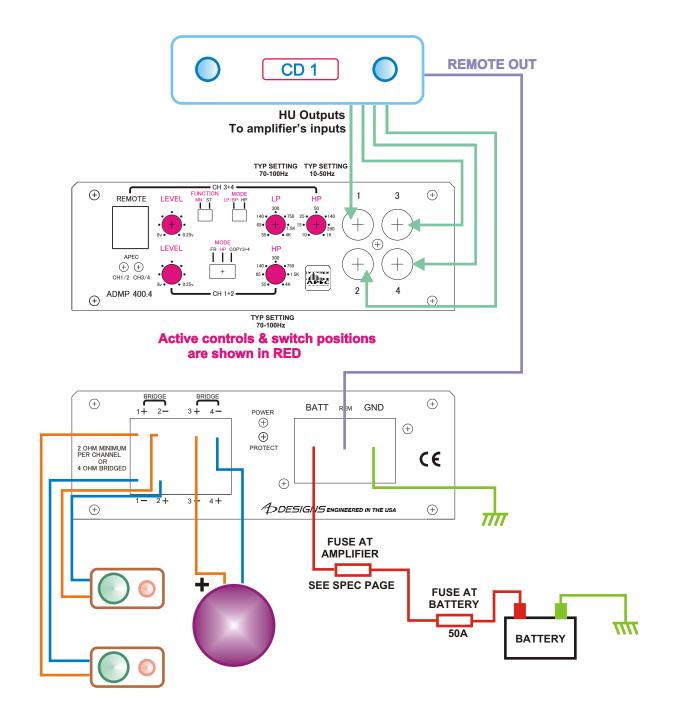
ADMP 400.4

The diagram below shows the ADMP400.4 set up to drive four component speakers



ADMP 400.4

The diagram below shows the ADMP400.4 set up to drive two component speakers And a single sub woofer



ADMP 900.6

1) Set BAL/UNBAL switch to suit the source. DO NOT set to unbalanced if using a head unit which has BTL outputs. Please refer to page 30 on how to do this.

Channels 1+2 has two modes of operation.

A) Set the PUSH SWITCH out to FR and these channels run in full range with the LEVEL control being active.

B) Set the PUSH SWITCH in to HP and these channels run in High Pass mode.

Channels 3+4 have four modes of operation.

A) Set the PUSH SWITCH out to HP and set the frequency to 10Hz. The channels now run effectively in full range.

B) Setting the HP crossover to a frequency higher than 10Hz allows these channels to operate in High Pass mode.

C) Set the PUSH SWITCH in to LP/BP, set the High Pass crossover to 10Hz and set the Low Pass crossover to the desired frequency and these channels operate in Low Pass mode. D) Setting the High Pass crossover to a higher frequency than 10Hz allows these channels to operate in Band Pass mode.

Channels 5+6 have four modes of operation.

A) Set the SLIDE SWITCH to HP and set the frequency to 10Hz. The channels now run effectively in full range.

B) Setting the HP crossover to a frequency higher than 10Hz allows these channels to operate in High Pass mode.

C) Set the SLIDE SWITCH to LP/BP, set the High Pass crossover to 10Hz and set the Low Pass crossover to the desired frequency and these channels operate in Low Pass mode.

D) Setting the High Pass crossover to a higher frequency than 10Hz allows these channels to operate in Band Pass mode.

E) Setting the SLIDE SWITCH to MONO mixes the channels to mono and invokes the REMOTE port. The channels continue to operate in LP/BP mode.

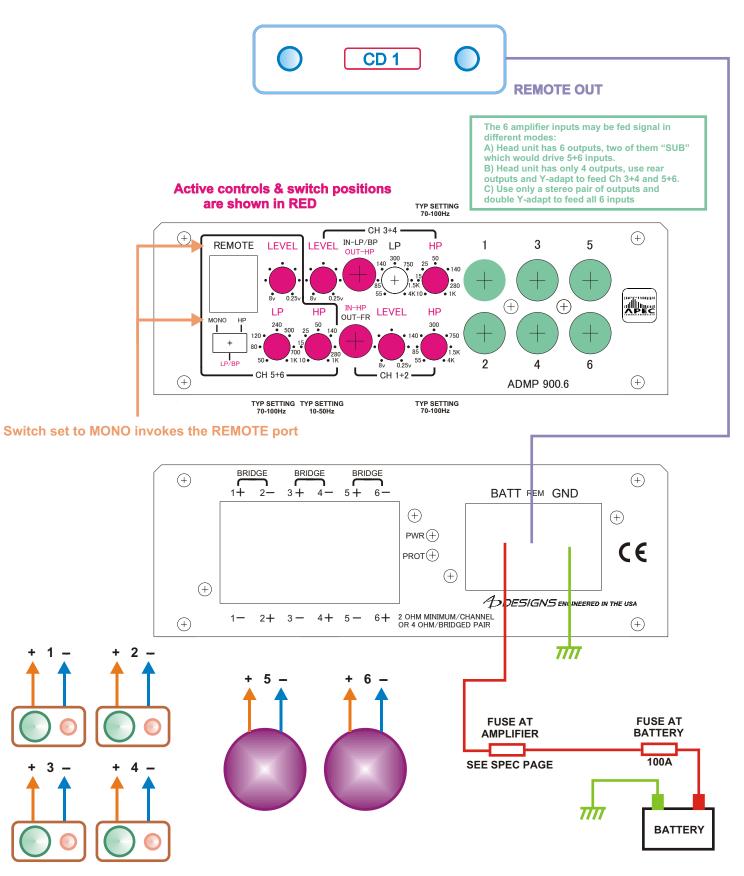
2) Set the LEVEL controls to suit the signal source's output level.

3) The easiest way to set the LEVEL control is to set the volume control of the signal source to about 85-90% of it's maximum and then whilst playing your favourite CD, set the LEVEL control until the APEC LED just flashes on the loudest peaks.

4) If the remote level controller is used, set the LEVEL control close to fully CW.

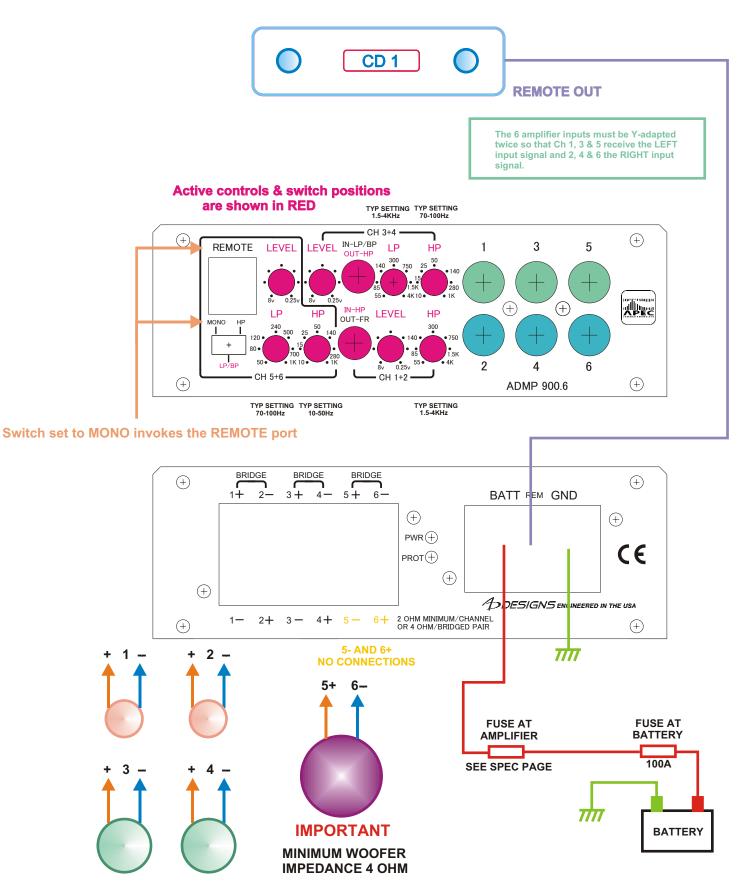
ADMP 900.6

The diagram below shows the ADMP900.6 set up with channels 1-4 driving component Speakers and channels 5+6 driving a pair of sub woofers (with alternate single woofer bridged)



ADMP 900.6

The diagram below shows the ADMP900.6 set up with Ch 1+2 driving tweeters, Ch 3+4 Driving midrange and Ch 5+6 driving a woofer (A single woofer in bridge mode)



AD Premium Amplifiers - Crossover Frequency vs. Click Stop

MODELS - ADP700.1 - ADP1200.1 - ADP1000.4 - ADP1500.6

	HP		HP		HP	LP		LP		LP	
10	Hz - 150Hz	1	0Hz - 1kHz	5	5Hz - 4kHz	40	Hz - 240Hz	5	0Hz - 1kHz	5	5Hz - 4kHz
CLICK	FREQ										
1	10	1	10	1	56	1	40	1	55	1	57
2	12	2	10	2	58	2	42	2	57	2	59
3	13	3	10	3	60	3	42	3	58	3	61
4	14	4	10	4	61	4	43	4	59	4	62
5	15	5	11	5	62	5	44	5	61	5	63
6	15	6	11	6	63	6	44	6	61	6	64
7	16	7	11	7	67	7	47	7	65	7	68
8	17	8	12	8	73	8	50	8	70	8	74
9	18	9	14	9	80	9	54	9	77	9	81
10	20	10	15	10	87	10	57	10	83	10	88
11	22	11	16	11	96	11	62	11	91	11	98
12	23	12	18	12	106	12	67	12	100	12	108
13	26	13	20	13	119	13	73	13	111	13	121
14	29	14	23	14	136	14	80	14	126	14	138
15	33	15	27	15	157	15	88	15	143	15	160
16	37	16	32	16	183	16	97	16	164	16	187
17	43	17	38	17	220	17	109	17	193	17	224
18	50	18	47	18	268	18	121	18	228	18	273
19	57	19	58	19	330	19	135	19	271	19	336
20	60	20	61	20	350	20	139	20	284	20	357
21	62	21	65	21	373	21	143	21	298	21	380
22	66	22	71	22	405	22	148	22	318	22	413
23	68	23	76	23	430	23	152	23	333	23	438
24	71	24	81	24	458	24	156	24	349	24	466
25	75	25	90	25	506	25	162	25	376	25	516
26	80	26	99	26	556	26	168	26	402	26	566
27	84	27	110	27	616	27	174	27	432	27	627
28	90	28	128	28	708	28	181	28	475	28	721
29	97	29	148	29	809	29	188	29	517	29	824
30	103	30	174	30	943	30	196	30	568	30	960
31	113	31	222	31	1177	31	206	31	643	31	1199
32	121	32	273	32	1411	32	214	32	706	32	1437
33	125	33	307	33	1567	33	217	33	742	33	1595
34	128	34	342	34	1718	34	221	34	774	34	1749
35	132	35	386	35	1902	35	224	35	809	35	1937
36	135	36	427	36	2068	36	226	36	837	36	2106
37	143	37	574	37	2621	37	233	37	913	37	2668
38	151	38	839	38	3468	38	239	38	997	38	3531
39	153	39	965	39	3817	39	241	39	1023	39	3886
40	153	40	969	40	3827	40	241	40	1024	40	3897
41	154	41	1027	41	3977	41	241	41	1034	41	4049

AD Mini Premium Amplifiers - Crossover Frequency vs. Click Stop

MODELS - ADMP500.1 - ADMP200.2 - ADMP400.4 - ADMP900.6

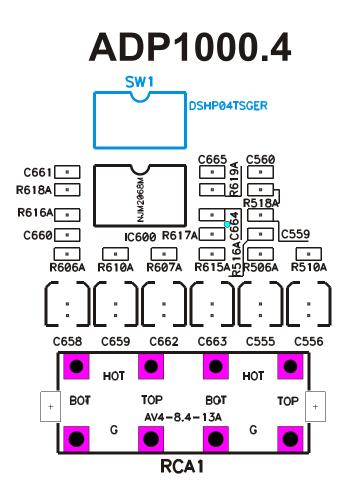
	HP	8	HP		HP		HP & LP		LP		LP
10	Hz - 150Hz	10	Hz - 400Hz	1	0Hz - 1kHz	55Hz - 4kHz		40Hz - 240Hz		5	0Hz - 1kHz
CLICK	FREQ	CLICK	FREQ	CLICK	FREQ	CLICK	FREQ	CLICK	FREQ	CLICK	FREQ
1	13	1	14	1	10	1	54	1	40	1	45
2	14	2	15	2	15	2	56	2	42	2	47
3	14	3	15	3	15	3	57	3	42	3	48
4	14	4	15	4	15	4	58	4	43	4	49
5	15	5	15	5	16	5	59	5	44	5	50
6	15	6	16	6	16	6	60	6	44	6	50
7	16	7	17	7	17	7	62	7	47	7	53
8	17	8	18	8	18	8	64	8	50	8	58
9	18	9	20	9	20	9	66	9	54	9	63
10	20	10	21	10	22	10	72	10	57	10	68
11	22	11	24	11	24	11	79	11	62	11	75
12	23	12	26	12	27	12	87	12	67	12	82
13	26	13	29	13	30	13	98	13	73	13	92
14	29	14	33	14	35	14	113	14	80	14	105
15	33	15	38	15	40	15	130	15	88	15	119
16	37	16	44	16	47	16	152	16	97	16	138
17	43	17	52	17	56	17	183	17	109	17	163
18	50	18	62	18	68	18	223	18	121	18	194
19	57	19	75	19	84	19	276	19	135	19	232
20	60	20	79	20	89	20	293	20	139	20	244
21	62	21	83	21	95	21	313	21	143	21	257
22	66	22	89	22	103	22	340	22	148	22	275
23	68	23	94	23	109	23	361	23	152	23	289
24	71	24	99	24	116	24	385	24	156	24	304
25	75	25	108	25	129	25	427	25	162	25	330
26	80	26	117	26	141	26	469	26	168	26	355
27	84	27	127	27	156	27	522	27	174	27	384
28	90	28	142	28	180	28	602	28	181	28	426
29	97	29	157	29	205	29	691	29	188	29	468
30	103	30	177	30	239	30	810	30	196	30	520
31	113	31	207	31	298	31	1023	31	206	31	600
32	121	32	233	32	356	32	1239	32	214	32	669
33	125	33	250	33	395	33	1386	33	217	33	710
34	128	34	264	34	433	34	1531	34	221	34	746
35	132	35	281	35	479	35	1709	35	224	35	786
36	135	36	294	36	520	36	1873	36	226	36	819
37	143	37	334	37	657	37	2439	37	233	37	911
38	151	38	380	38	865	38	3369	38	239	38	1016
39	153	39	396	39	950	39	3777	39	241	39	1050
40	153	40	396	40	952	40	3789	40	241	40	1051
41	154	41	402	41	989	41	3969	41	241	41	1064

FUSE CHART

MODEL	4 OHM LOADS	2 OHM LOADS
ADP700.1	30A	60A
ADP1200.1	40A	80A
ADP1000.4	25A*	50A*
ADP1500.6	40A *	60A*
ADMP500.1	30A	50A
ADMP200.2	15 A *	25A*
ADMP400.4	20A *	30A *
ADMP900.6	25A *	40A *

* These fuse ratings can be reduced by about 30% when channels of these Amplifiers are run in a High Pass Mode.

	250-300	4-ga.	2-ga.	2-ga.	1/0-ga.	1/0-ga.	1/0-ga.	2/0-ga.				
	200-250	4-ga.	4-ga.	2-ga.	2-ga.	1/0-ga.	1/0-ga.	1/0-ga.				
	150-200	6 or 4-ga.	4-ga.	4-ga.	2-ga.	2-ga.	1/0-ga.	1/0-ga.				
	125-150	8-ga.	6 or 4-ga.	4-ga.	4-ga.	2-ga.	2-ga.	2-ga.				
S	105-125	8-ga.	8-ga.	6 or 4-ga.	4-ga.	4-ga.	4-ga.	2-ga.				
Amperes	85-105	8-ga.	8-ga.	6 or 4-ga.	4-ga.	4-ga.	4-ga.	4-ga.				
du	65-85	10-ga.	8-ga.	8-ga.	6 or 4-ga.	4-ga.	4-ga.	4-ga.				
Ā	50-65	10-ga.	10-ga.	8-ga.	8-ga.	6 or 4-ga.	6 or 4-ga.	4-ga.				
	35-50	10-ga.	10-ga.	10-ga.	8-ga.	8-ga.	8-ga.	6 or 4-ga.				
	20-35	12-ga.	10-ga.	10-ga.	10-ga.	10-ga.	8-ga.	8-ga.				
	0-20	12-ga.	12-ga.	12-ga.	12-ga.	10-ga.	10-ga.	10-ga.				
		0-4 ft.	4-7 ft.	7-10 ft.	10-13 ft.	13-16 ft.	16-19 ft.	19-22				
	Length in feet											



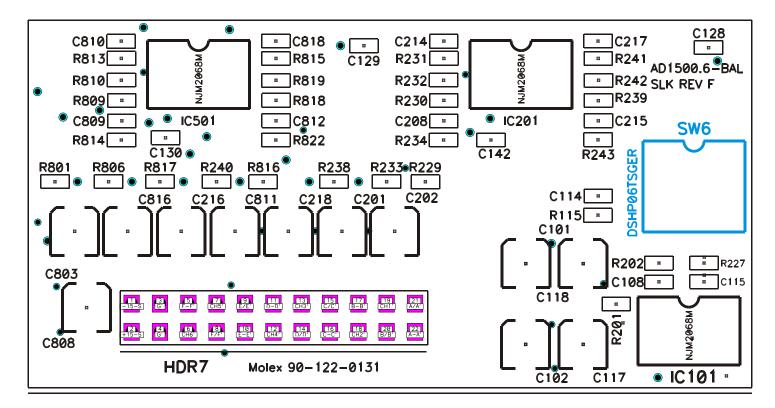
TO CONVERT TO BALANCED INPUTS FOLLOW THESE INSTRUCTIONS

1) REMOVE THE BOTTOM COVER OF THE AMPLIFIER.

2) BEHIND THE RCA SOCKETS IS A SWITCH MARKED SW1 AS SHOWN ABOVE.

3) USING A SMALL SCREWDRIVER MOVE THE 4 SMALL LEVERS OF SWITCH SHOWN IN BLUE ABOVE, TO THE OFF POSITION WHICH IS OPPOSITE TO THE PRINT ON THE SWITCH SHOWING "ON".

ADP1500.6



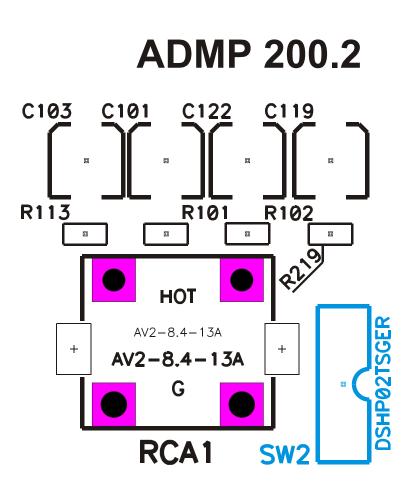
THE AMPLIFIER IS DELIVERED FROM THE FACTORY WITH THE INPUTS SET TO UNBALANCED.

TO CONVERT TO BALANCED INPUTS FOLLOW THESE INSTRUCTIONS

1) REMOVE THE BOTTOM COVER OF THE AMPLIFIER.

2) BEHIND THE RCA SOCKETS IS A VERTICAL PCB AS SHOWN ABOVE.

3) USING A SMALL SCREWDRIVER MOVE THE 6 SMALL LEVERS OF SWITCH SHOWN IN BLUE ABOVE, TO THE OFF POSITION WHICH IS OPPOSITE TO THE PRINT ON THE SWITCH SHOWING "ON".

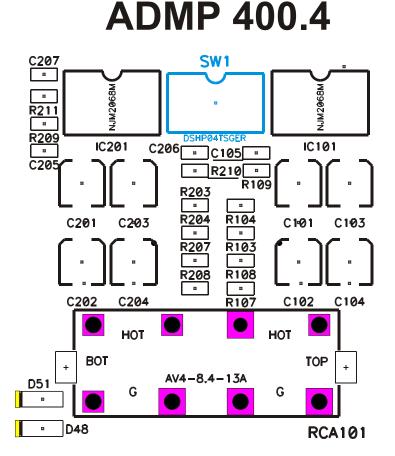


TO CONVERT TO BALANCED INPUTS FOLLOW THESE INSTRUCTIONS

1) REMOVE THE BOTTOM COVER OF THE AMPLIFIER.

2) TO THE RIGHT OF THE RCA SOCKETS IS A SWITCH Sw2 AS SHOWN ABOVE.

3) USING A SMALL SCREWDRIVER MOVE THE 2 SMALL LEVERS OF SWITCH SHOWN IN BLUE ABOVE, TO THE OFF POSITION WHICH IS OPPOSITE TO THE PRINT ON THE SWITCH SHOWING "ON".

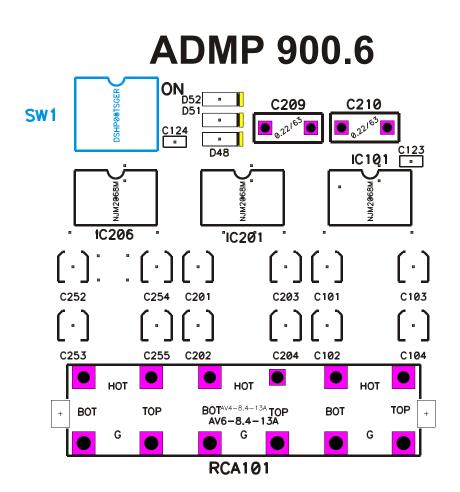


TO CONVERT TO BALANCED INPUTS FOLLOW THESE INSTRUCTIONS

1) REMOVE THE BOTTOM COVER OF THE AMPLIFIER.

2) BEHIND THE RCA SOCKETS IS A SWITCH, SW1 AS SHOWN ABOVE.

3) USING A SMALL SCREWDRIVER MOVE THE 4 SMALL LEVERS OF SWITCH SHOWN IN BLUE ABOVE, TO THE OFF POSITION WHICH IS OPPOSITE TO THE PRINT ON THE SWITCH SHOWING "ON".



TO CONVERT TO BALANCED INPUTS FOLLOW THESE INSTRUCTIONS

1) REMOVE THE BOTTOM COVER OF THE AMPLIFIER.

2) BEHIND THE RCA SOCKETS IS A SWITCH, SW1 AS SHOWN ABOVE.

3) USING A SMALL SCREWDRIVER MOVE THE 6 SMALL LEVERS OF SWITCH SHOWN IN BLUE ABOVE, TO THE OFF POSITION WHICH IS OPPOSITE TO THE PRINT ON THE SWITCH SHOWING "ON".



Website www.adcaraudio.com

Address AD DESIGNS 1125 maple Street Farmington, MO 63640 (573) 756-2049