

OWNER & INSTALLATION MANUAL

PURE SERIES AMPLIFIERS

P13.4 P25.2 P60.1

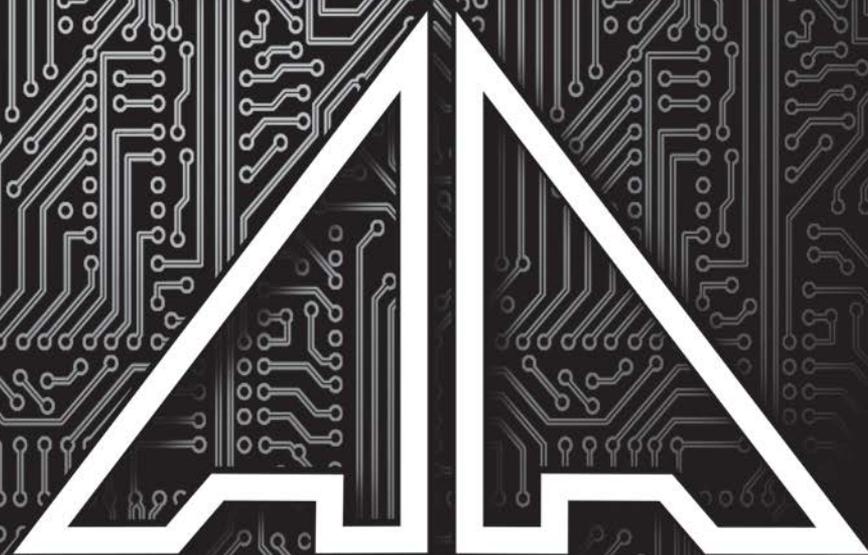
P120.1 P200.1 P250.1

PURE POWER

Congratulations

PURE PERFORMANCE

"ONE HIT AND YOU'RE HOOKED."



ADDICTIVE AUDIO

Specifications

P25.2 (13.8V)		
	STEREO	BRIDGED
Signal to Noise Ratio 101dB High Efficiency 78% THD: 0.1% Lowest Recommended Load: 2ohm Stereo or 4ohm Mono	250x2 watts RMS @ 4ohm 390x2 watts RMS @ 2ohm Do Not Operate at 1ohm Stereo	690x1 watts RMS @ 4ohm Do Not Operate at 2ohm or 1ohm Bridged
P13.4 (13.8V)		
	STEREO	BRIDGED
Signal to Noise Ratio 104dB High Efficiency 81% THD: 0.05% Lowest Recommended Load: 2ohm Stereo or 4ohm Mono	135x4 watts RMS @ 4ohm 195x4 watts RMS @ 2ohm Do Not Operate at 1ohm Stereo	350x2 watts RMS @ 4ohm Do Not Operate at 2ohm or 1ohm Bridged
P60.1 (13.8V)		
	SINGLE	STRAPPED
Signal to Noise Ratio >95dB 90% Efficiency THD: <0.5% Lowest Recommended Load 1ohm	295 watts RMS @ 4ohm Mono 490 watts RMS @ 2ohm Mono 695 watts RMS @ 1ohm Mono	970 watts RMS @ 4ohm Mono 1500 watts RMS @ 2ohm Mono Not stable to 1ohm strapped
P120.1 (13.8V)		
	SINGLE	STRAPPED
Signal to Noise Ratio >95dB 90% Efficiency THD: <0.5% Lowest Recommended Load 1ohm	535 watts RMS @ 4ohm Mono 895 watts RMS @ 2ohm Mono 1295 watts RMS @ 1ohm Mono	1775 watts RMS @ 4ohm Mono 2550 watts RMS @ 2ohm Mono Not stable at 1ohm strapped
P200.1 (13.8V)		
	SINGLE	STRAPPED
Signal to Noise Ratio >95dB 90% Efficiency THD: <0.5% Lowest Recommended Load 1ohm	855 watts RMS @ 4ohm Mono 1440 watts RMS @ 2ohm Mono 2095 watts RMS @ 1ohm Mono	2755 watts RMS @ 4ohm Mono 4435 watts RMS @ 2ohm Mono Not stable to 1ohm strapped
P250.1 (13.8V)		
	SINGLE	STRAPPED
Signal to Noise Ratio >95dB 90% Efficiency THD: <0.5% Lowest Recommended Load 1ohm	1060watts RMS @ 4ohm Mono 1780 watts RMS @ 2ohm Mono 2595 watts RMS @ 1ohm Mono	3500 watts RMS @ 4ohm Mono 5550 watts RMS @ 2ohm Mono Not stable to 1ohm strapped

Common Design Features

- ✓ **Clipping Circuit with LED Indicator**
- ✓ **Heavy Duty Copper Trace PCB Board**
- ✓ **Direct Cable Connection for Superior Conductivity**
- ✓ **Short Circuit, Thermal, Low / High / Reverse Voltage Protection**
- ✓ **EASY CLICK on all Frequency Adjustments for Simple and Exact Tuning**
- ✓ **Variable Phase Adjustment**
- ✓ **Heavy Duty Aluminum Heatsink for Max. Heat Dissipation**
- ✓ **Input Sensitivity: 220mV – 6.6Vrms**
- ✓ **Laser Etched Logo (Not another Peel-n-Stick amp)**
- ✓ **Engineered & Assembled in the U.S.A.**

P25.2 / P13.4 Design Features

- ✓ **Bass Boost from 0 to +18dB (45Hz)**
- ✓ **EASY CLICK Low Pass Filter: 50 – 150Hz (-12dB/Octave)**
- ✓ **EASY CLICK High Pass Filter: 50 – 500Hz (-12dB/Octave)**
- ✓ **EASY CLICK Subsonic Filter: 25 – 40Hz (-12dB/Octave)**
- ✓ **x1/x10 HPF for Active System Configurations**

P60.1 / P120.1 / P200.1 / P250.1 Design Features

- ✓ **Remote Gain Control with Clipping Indicator Included**
- ✓ **All Models STRAPPABLE with the provided Data Link Cable**
(Refer to Fig. 6)
- ✓ **EASY CLICK Selectable Center Point Frequency (20-85Hz)**
Bass Boost up to +12dB *(refer to pg. 13 for adjusting this feature)*
- ✓ **EASY CLICK Low Pass Filter: 50 – 250Hz (24dB/Octave)**
- ✓ **EASY CLICK Subsonic Filter: 10 – 55Hz (24dB/Octave)**
- ✓ **Frequency Response -3dB 15Hz – 238Hz**
- ✓ **Class D High Efficiency (90%) Design**

CONGRATULATIONS!

Selecting fine audio equipment, such as the Addictive Audio amplifier you have just purchased, is only the beginning of your musical enjoyment. Now is the time to consider how to maximize the fun and excitement your equipment has to offer. Addictive Audio and the Electronic Industry Associations Consumer Electronic Group want you to get the most out of your equipment by playing it at a safe level, a level that lets the sound come through loud and clear without annoying blaring distortion; most importantly, without affecting your sensitive hearing.

Sound can be deceiving over time your hearing “comfort level” adapts to higher volumes of sound, what may have sounded “normal” can actually be too loud and harmful to your hearing.

Prevent this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish the “safe level”.

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.
- Once you have established a comfortable “sound level” make a note of this position and do not go above this setting.

Taking a minute to do this will help to prevent hearing damage in the future. After all, we want you listening for a lifetime.

Introduction

Your Addictive Audio amplifier has been designed to give you very high performance, and valuable features, at an exceptional value. Take the time to read over this brief set of instructions, and you will get full enjoyment from your system.

Installation

The quality of the installation will affect system performance and reliability. You may wish to contact a dealer or professional installer. The amplifier is generally mounted in the rear trunk area but can be mounted in any convenient area such as beneath a seat. Please be sure to locate this unit where you have reasonable air circulation and protection from any moisture.

When considering the mounting location you should minimize the length of the power supply and speaker leads. Minimizing both leads will provide higher audio output from the system. It is important to ensure that the heat sink is not against a panel or a surface preventing air circulation. Mark the location for the mounting screw holes by using the amplifier as a template. Drill #29 or 9/64” diameter holes at the marked locations and firmly fasten the amplifier in place with the mounting screws supplied in the accessory kit.

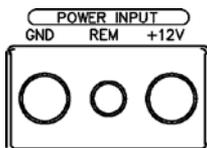
Caution

Before drilling or cutting any holes investigate the layout of your automobile thoroughly! Take care when working near the gas lines, hydraulic lines and electrical wiring.

WARNING

This power amplifier has a protection feature to prevent any damage from misuse or faulty conditions - excessive heat, short circuit speakers or overload. If the unit senses one of the above conditions, the protection indicator will light and the system will shut down. To diagnose the problem turn all levels down, all power off and check the installation for possible wiring mistakes or shorts. In the event the amplifier shuts down due to excessive heat under adverse conditions simply allow time for the unit to cool down at which time, the protection indicator will not light.

Power Supply Connections



The +12VDC and GROUND wires should be heavy gauge copper wire with heavy insulation and of the same gauge. Please see the chart below for recommended gauge and fuse.

P25.2	80 AMP FUSE	4 GAUGE
P13.4	80 AMP FUSE	4 GAUGE
P60.1	100 AMP FUSE	4 GAUGE
P120.1	100 AMP FUSE	4-2 GAUGE
P200.1	200 AMP FUSE*	0 GAUGE
P250.1	250 AMP FUSE*	0 GAUGE

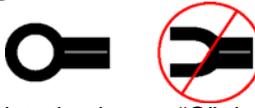
* This model is not fused at the amplifier. An ANL fuse is to be used within 8" of amplifier. It is recommended to place another ANL fuse within 16" of the main battery.

In addition, it has a 12V remote control wire and it should be 14AWG-18AWG.

+12V Power (+12V)

Firstly, use good quality USA spec OFC wire. If using a low quality/strand count wire, be prepared to increase gauge size accordingly. This wire is usually connected directly to the positive battery terminal. Be sure to use proper fuse as rated above within 16 inches of the main battery. (Refer to Fig. 1)

Ground (GND) Same gauge as +12V and no longer than 36"



This connection must be completed using an "O" ring (to prevent coming loose) with insulating sleeve. This wire is the electrical ground and must be fastened securely to the vehicle chassis. The best method is to use threading sheet metal screw(s) since the threads cut into bare metal. Ensure that all paint coating or other insulation is removed from around the ground area. Use as short of a piece of cable as possible – Again, use the same gauge as the +12V. (Refer to Fig. 1)

Remote (REM)

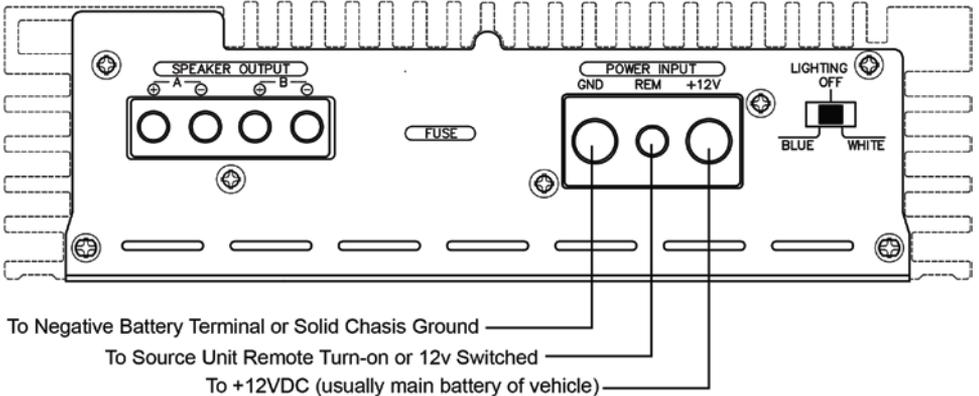
Many source units (cd player) or other music sources have an output terminal for connection of the remote turn-on of the power amplifier. If the source unit doesn't have a remote turn-on feature, then you can connect the remote wire to a switch that derives power from an ignition switched circuit. (Refer to Fig. 1)

Power Input Connections

Caution

First make +12V wire connection then the ground connection and finally the remote connection. Furthermore the +12V wire must always be fused at the battery for protection against possible damage. If you need to replace the power fuse, replace it with a fuse of the same value. Using a fuse of a different type or rating may result in a serious hazard.

Fig. 1

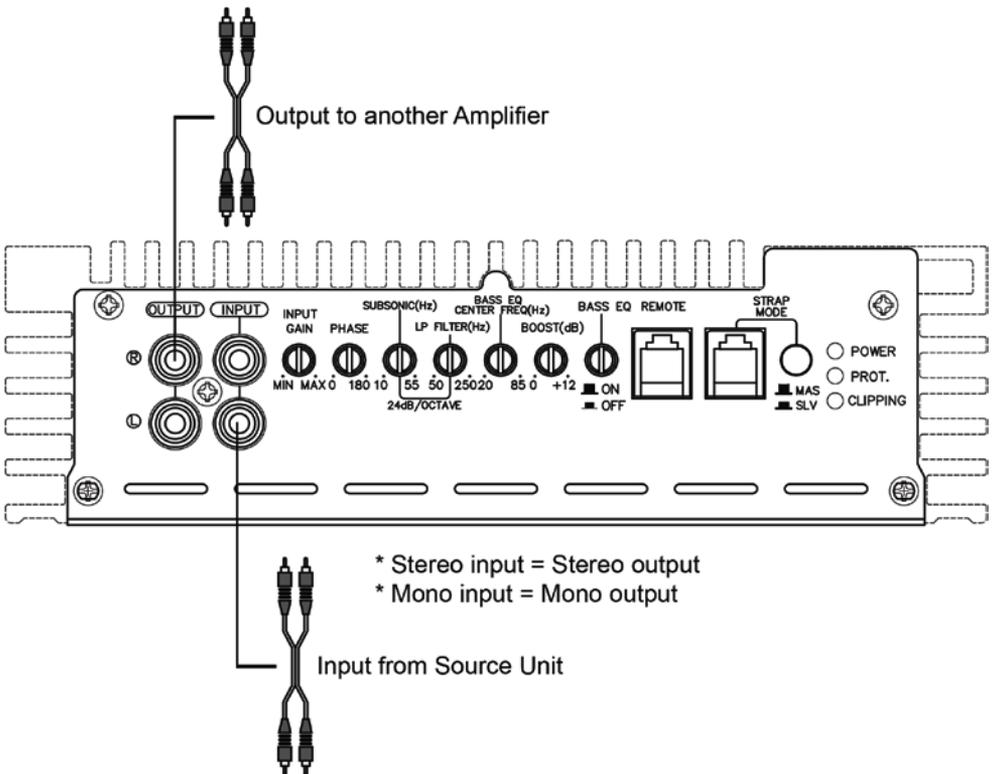


Signal Input (RCA)

Addictive Audio amplifiers have RCA connection type input terminal for low level input. A standard pair of RCA type cables can be used for all models (Refer to Fig. 2). The amplifiers allow both stereo and mono input. The amplifier internally will take a stereo signal and convert to a mono signal. If using the low level output of one amplifier to provide signal to a stereo amplifier, you must input stereo signal to the amplifier providing signal to secondary amplifier. If mono input to initial amplifier is made the output to stereo (secondary) amplifier will also be mono. Adjustment of input level is accomplished by the gain control. Adjusting this control allows the amplifier gain to be controlled to match the source unit.

Signal Input Connections

Fig. 2



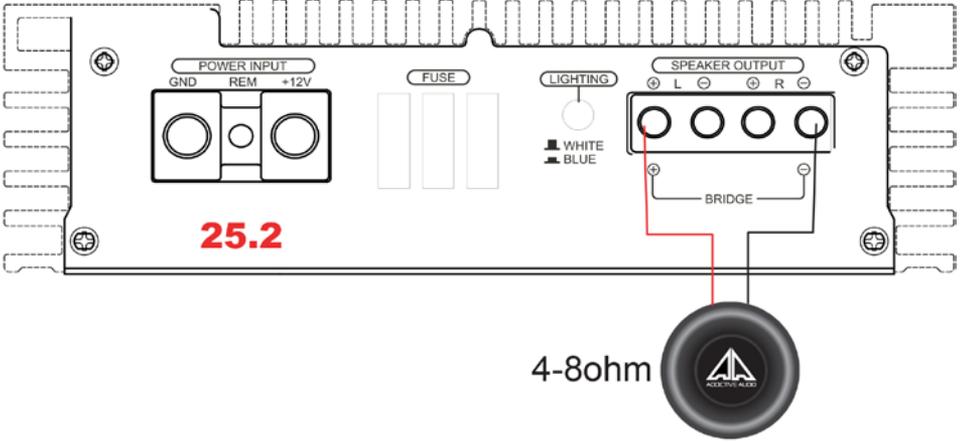
Primary RCA inputs have white printing surrounding the female terminals. More information can be found under Features and Controls.

Speaker Output Connections

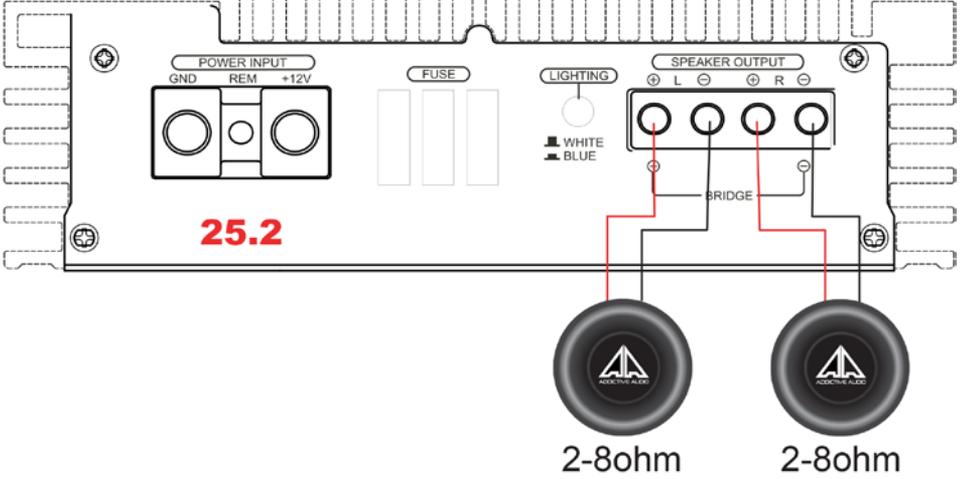
P25.2

FIG. 3a

1 CHANNEL BRIDGED



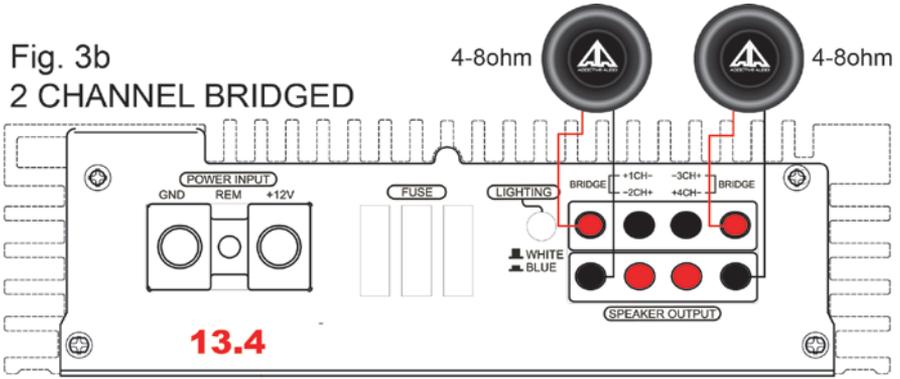
2 CHANNELS STEREO



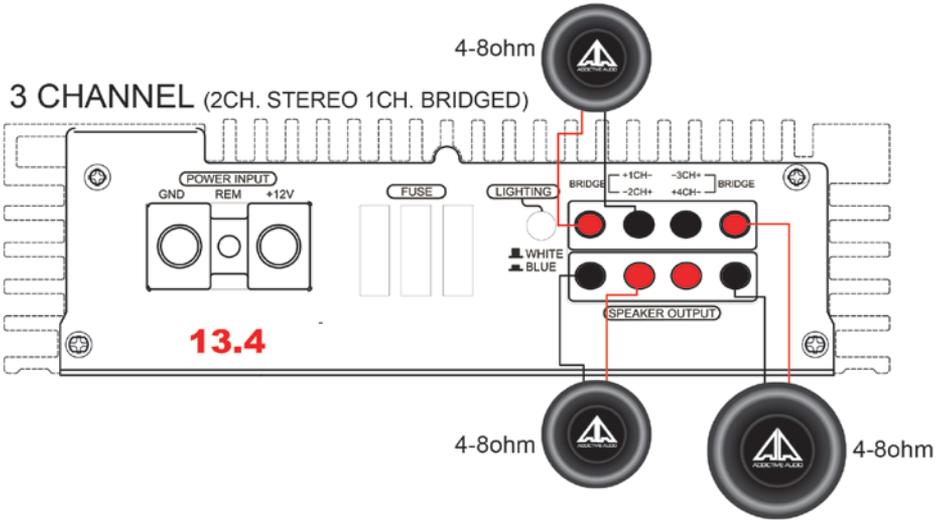
P13.4

Fig. 3b

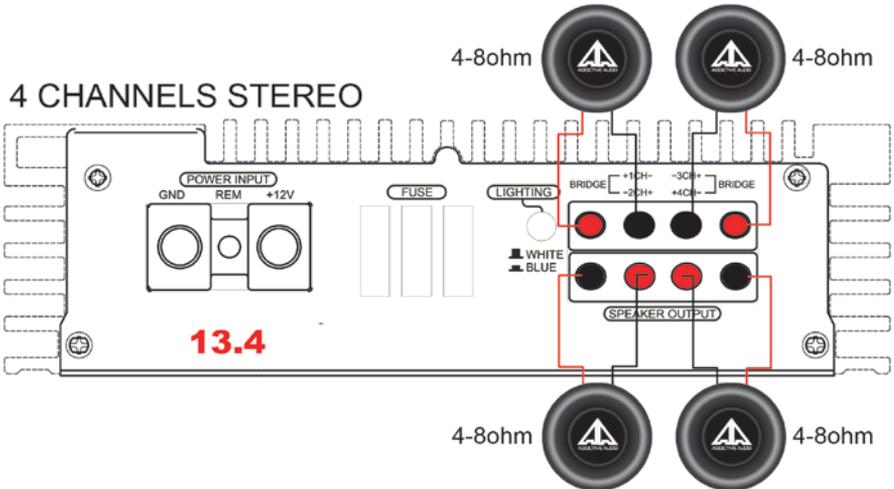
2 CHANNEL BRIDGED



3 CHANNEL (2CH. STEREO 1CH. BRIDGED)

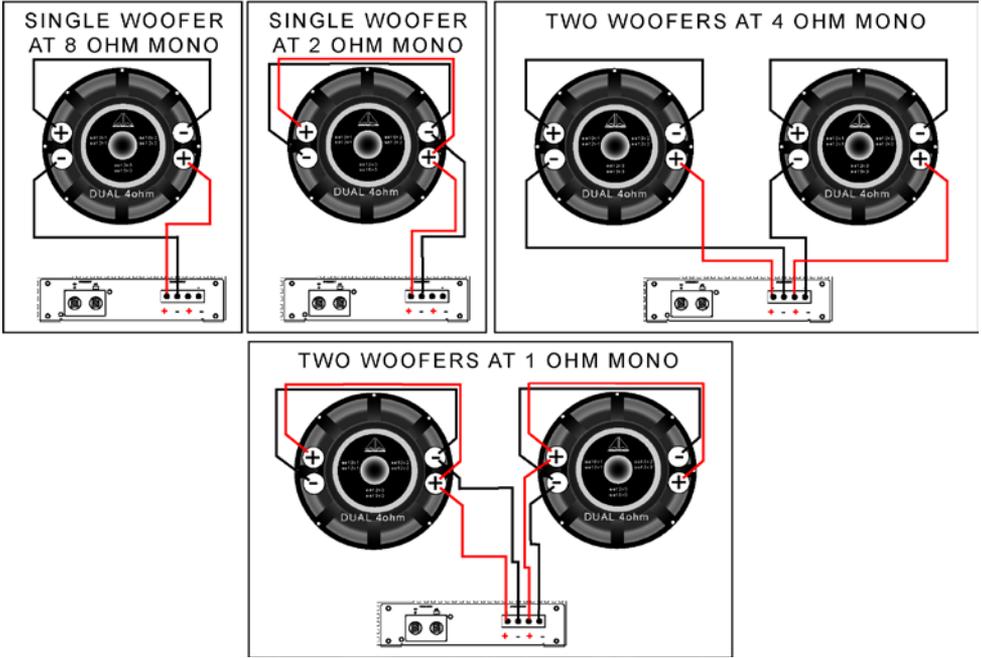


4 CHANNELS STEREO

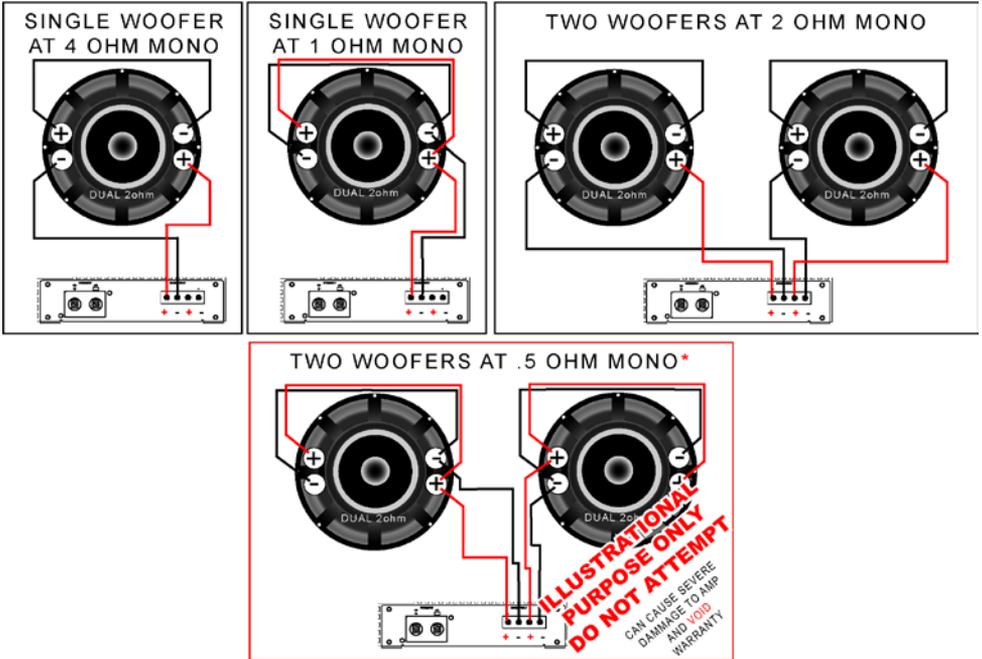


P60.1 / P120.1 / P200.1 / P250.1

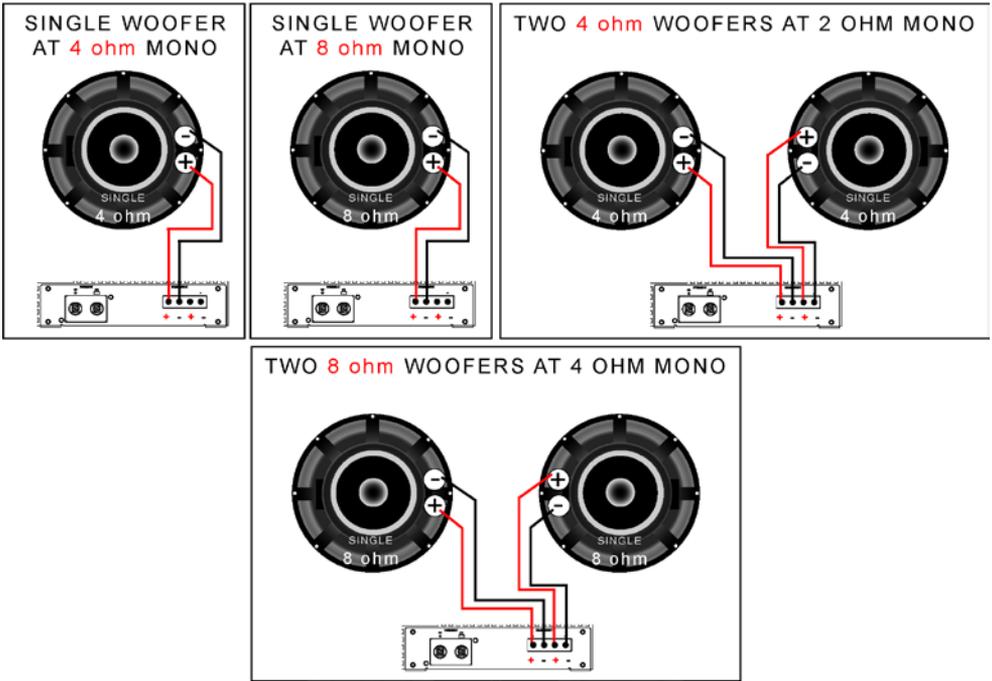
DUAL 4 ohm SUBWOOFERS (Fig. 3)



DUAL 2 ohm SUBWOOFERS (Fig. 4)



SINGLE 4 ohm & 8 ohm SUBWOOFERS (Fig. 5)

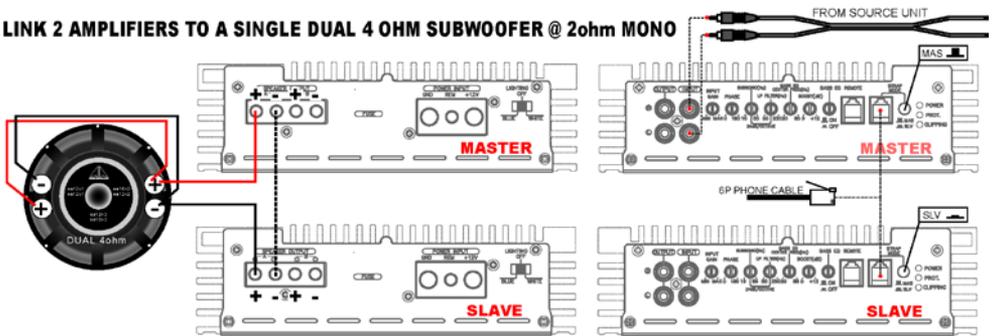


Strapping/Linking 2 Amplifiers to 1 Subwoofer (Fig. 6)

Caution

Input voltage under unloaded condition should be less than 16Volts.
 Impedance of two amplifiers STRAPPED is 4 ohm and 2 ohm (2ohm being the minimum).

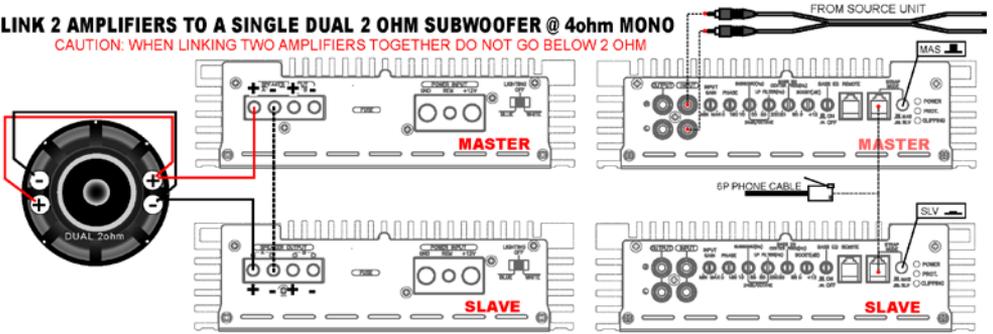
LINK 2 AMPLIFIERS TO A SINGLE DUAL 4 OHM SUBWOOFER @ 2ohm MONO



CAUTION: BOTH AMPLIFIERS HAVE TO BE THE EXACT SAME MODEL

LINK 2 AMPLIFIERS TO A SINGLE DUAL 2 OHM SUBWOOFER @ 4ohm MONO

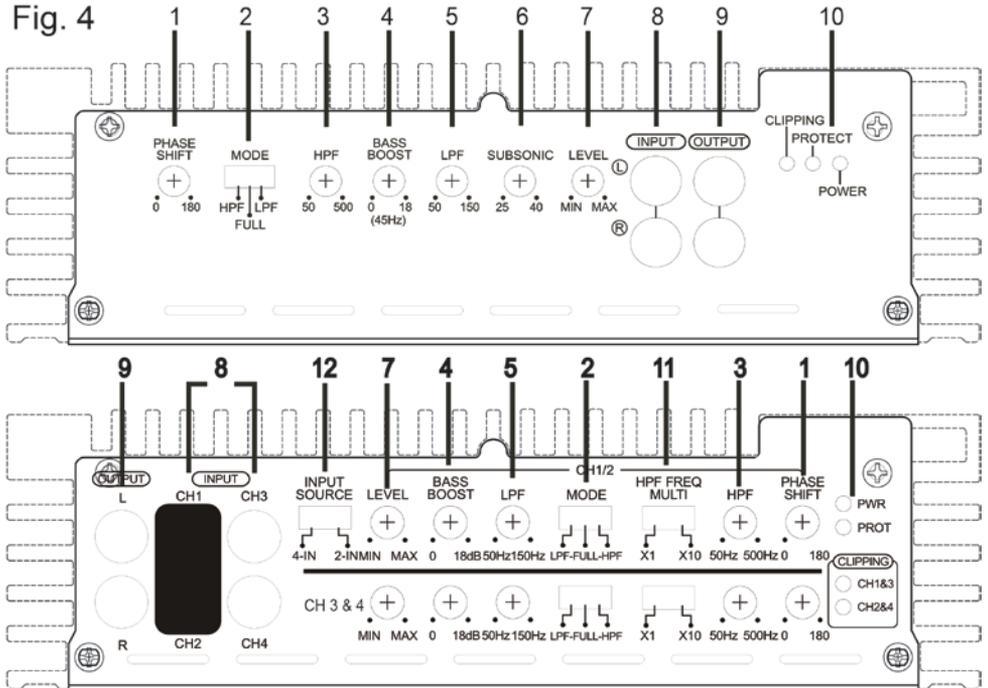
CAUTION: WHEN LINKING TWO AMPLIFIERS TOGETHER DO NOT GO BELOW 2 OHM



CAUTION: BOTH AMPLIFIERS HAVE TO BE THE EXACT SAME MODEL

Features and Controls P25.2 / P13.4 (Fig.4)

Fig. 4



1. 0-180 Degree Phase Alignment

Allows for the time correction of music signals to prevent phasing cancellation or music blurring.

2. MODE

HPF: Set the MODE SWITCH to the HPF position when the amplifier is used to drive a tweeter/midrange system. The frequencies below the crossover point will be attenuated at -12dB/octave slope. Adjust the crossover frequency by rotating the

HPF knob to the desired frequency ranging from 50-500Hz. See #3 below for more details.

LPF: Set the MODE SWITCH to the LPF position when the amplifier is used to drive a subwoofer system. The frequencies above the crossover point will be attenuated at -12dB/octave. Adjust the crossover frequency by rotating the LPF knob to the desired frequency ranging from 50-150Hz. See #5 below for more details.

FULL: Set the MODE SWITCH to the FULL position when the amplifier is used to drive full-range speakers and/or components that come with their own crossover. The full frequency bandwidth will be output to the speakers without high or low frequency attenuation.

3. High Pass Filter with EASY CLICK *(Refer to Pg.13 for EASY CLICK Adjusting)*

This controls the high pass crossover point for the speaker outputs. This crossover, when selected, will attenuate the frequencies below the crossover point with a slope of -12dB per octave. The crossover point is adjustable from 50-500Hz. This filter reduces unwanted lower frequencies from being played through the speaker(s).

4. Bass Boost

This allows the ability to Boost low frequency response (45Hz) up to +18dB.

5. Low Pass Filter with EASY CLICK *(Refer to Pg.13 for EASY CLICK Adjusting)*

This controls the low pass crossover point for the speaker outputs. This crossover, when selected, will attenuate the frequencies above the crossover point with a slope of -12dB per octave. The crossover point is adjustable from 50-150Hz. This filter reduces unwanted upper frequencies from being played through the subwoofer(s).

6. Subsonic Filter with EASY CLICK *(Refer to Pg.13 for EASY CLICK Adjusting)*

Control the high pass crossover point for the speaker outputs to eliminate ultra low frequencies. This crossover is always on with a -12dB per octave slope and adjustable from 25-40Hz. This filter is used mainly in ported applications, to protect the subwoofers from excessive excursion below the port tuned frequency. Not necessary when dealing with sealed enclosures, but can still be used to help protect the subwoofer system.

7. Input Gain Level Control *NOT A VOLUME KNOB*

This allows for the adjustment of the gain of both channels to match the output level of the source unit. In addition, it allows adjustment from 0.2V to 6.0V.

CAUTION: The gain knob is not a volume control. It is designed to match the input level of the amp to the output level of the source unit. Over-driving (clipping) the input stage of the amp will cause damage to the amplifier.

QUICK REFERENCE GAIN KNOB SETTING

MAX. INPUT VOLTAGE BEFORE CLIPPING					
RCA LEVEL	6V	4.5V	1.5V	.375V	.2V

8. RCA Line Input Jacks

Input signal from source unit through RCA cable.

- The **black square** marks the primary input when utilizing #12 & #13 INPUT SOURCE.

9. RCA Line Output Jacks

Allows signal to pass through to another amplifier via an RCA cable.

10. Power / Protection / Clipping Indicator LED

POWER LED: Will illuminate GREEN when +12VDC is applied to both the remote turn on and +12V input from the battery and a solid ground has been made. The input from the battery to the amplifier can be more than 12VDC.

PROTECTION: Will illuminate RED when any one of the following occurs:

- Short Circuit (Immediately)
- Reverse Voltage (Immediately)
- Thermal (On at 141°F or 60°C)
- Low Voltage (On at 9VDC)
- High Voltage (On at 18VDC)

CLIPPING: Will immediately illuminate yellow when clipping is detected. The brighter and more solid the LED is lit = the more potential damage to the speakers.

Clipping may be heard as general distortion or as pops. The untrained ear often overlooks this. Because the clipped waveform has more area underneath it than the smaller unclipped waveform, the amplifier produces more power when it is clipping. This extra power can damage any part of the loudspeaker, including the woofer or the tweeter, by causing over-excursion, or by **overheating the voice coil**. Addictive Audio uses the CLIPPING LED to help “SEE” when clipping occurs, without this, our only other option would be to give everyone an oscilloscope.

11. HPF FREQ MULTI

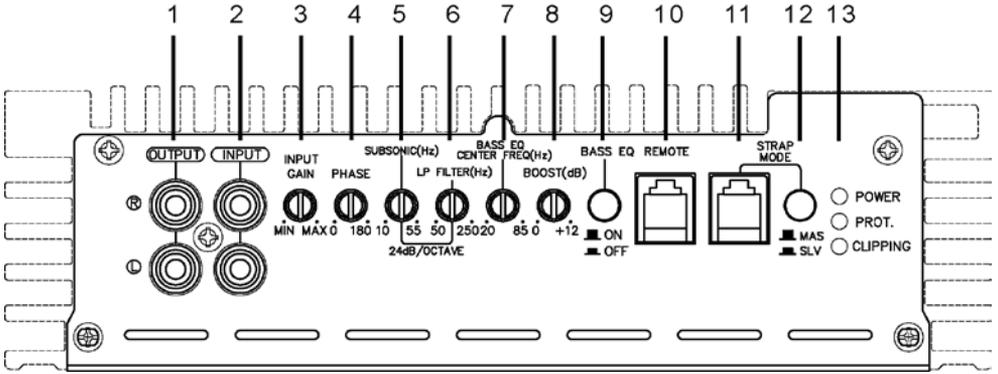
The switch allows you to select x1 or x10. When x1 is selected the HPF (#3) operates normally allowing you to adjust the frequency from 50Hz-500Hz. When the switch is set to x10 the HPF adjustable frequency range becomes 500Hz-5000Hz.

12. INPUT SOURCE MAIN

Select 4-in when running 2 rca pairs to the rca inputs (#8).

Select 2-in when only running 1 rca pair to the amplifier. Be sure to plug the rca into the primary inputs notated by a black square in fig. 4. When 2-in is selected it will apply signal to channel 3 and 4 rca inputs internally.

Features and Controls 60.1 / 120.1 / 200.1 / 250.1 (Fig.5)



1. RCA Line Output Jacks

Allows signal to pass through to another amplifier.

2. RCA Line Input Jacks

Input signal from source unit through RCA cable.

3. Input Gain Level Control ***NOT A VOLUME KNOB***

This allows for the adjustment of the gain of both channels to match the output level of the source unit. In addition, it allows adjustment from 0.2V to 6.0V.

CAUTION: The gain knob is not a volume control. It is designed to match the input level of the amp to the output level of the source unit. Over-driving (clipping) the input stage of the amp will cause damage to the amplifier.	QUICK REFERENCE GAIN KNOB SETTING				
	MAX. INPUT VOLTAGE BEFORE CLIPPING				
RCA LEVEL	6V	4.5V	1.5V	.375V	.2V

4. 0-180 Degree Phase Alignment

Allows for the time correction of music signals to prevent phasing cancellation or music blurring.

5. Subsonic Filter with EASY CLICK *(Refer to Pg. 13 for Adjusting)*

Control the high pass crossover point for the speaker outputs to eliminate ultra low frequencies. This crossover is always on with a 24dB per octave slope and adjustable from 10-55Hz. This filter is used mainly in ported applications, to protect the speakers from excessive excursion below the port tuned frequency. Not necessary when dealing with sealed enclosures, but can still be used to help protect the speaker system.

6. Low Pass Filter with EASY CLICK *(Refer to Pg. 13 for Adjusting)*

This controls the lowpass crossover point for the speaker outputs. This crossover is always on with a slope of 24dB per octave and adjustable from 50-250Hz. This filter reduces unwanted upper frequencies from being played through the subwoofer.

7. Center Frequency with EASY CLICK *(Refer to Pg. 13 for Adjusting)*

The "Bass EQ" Above (#9 on Fig. 7) must be in the ON position. This allows adjustment of the center frequency (20-85Hz) that will be boosted via the BOOST adjustment above (#8 on Fig. 7). This allows the ability to help "Boost" frequency ranges that are lacking in a sound system or help with SPL applications. A majority of companies only offer a bass boost that only allows the ability to boost a certain amount of dB at 45Hz. To adjust the Addictive Audio amplifier according to this "industry average" set the Center Frequency to 45Hz (16 clicks). However, we don't recommend this because Addictive Audio is NOT industry average.

8. Boost

This allows the ability to BOOST the Center Frequency (#7 on Fig. 7) up to +12dB. The "Bass EQ" above (#9 on Fig. 7) must be in the ON position.

9. Bass EQ On / Off

This turns the BASS EQ (#7 & #8 above Fig. 7) on or off. When turned on the Center Frequency and Boost can be adjusted. When turned off the all Bass EQ adjustments are disabled.

10. Remote Gain Control

This allows an external bass knob (included) to adjust the subwoofer from a more convenient location in the vehicle or in the event the stock head unit is being used. Most aftermarket mid to high-end head units already offer subwoofer adjustment. However, the bass knob can still be used, but is not necessary.

11. STRAP Data Link

This allows the supplied 6P phone cable (Data Link) to pass signal through to the Slave amplifier. This must be used when strapping two amplifiers.

CAUTION: Strapped amplifiers are only stable to 2ohm mono.

12. Master / Slave Selection

When strapping two amplifiers together the Master amplifier must be set to MAS and Slave amplifier must be set to SLV via this switch.

13. Power / Protection / Clipping Indicator LED

POWER LED: Will illuminate GREEN when +12VDC is applied to both the remote turn on and +12V input from the battery and a solid ground has been made. The input from the battery to the amplifier can be more than 12VDC.

PROTECTION: Will illuminate RED when any one of the following occurs:

- Short Circuit (Immediately)
- Reverse Voltage (Immediately)
- Thermal (On at 141°F or 60°C)
- Low Voltage (On at 9VDC)
- High Voltage (On at 18VDC)

CLIPPING: Will immediately illuminate yellow when clipping is detected. The brighter and more solid the LED is lit = the more potential damage to the speakers.

Clipping may be heard as general distortion or as pops. The untrained ear often overlooks this. Because the clipped waveform has more area underneath it than the smaller unclipped waveform, the amplifier produces more power when it is clipping. This extra power can damage any part of the loudspeaker, including the woofer or the tweeter, by causing over-excitation, or by **overheating the voice coil**. Addictive Audio uses the CLIPPING LED to help “SEE” when clipping occurs, without this, our only other option would be to give everyone an oscilloscope.

Adjusting the Amplifier

1. Disconnect the negative battery post and secure it to something so accidental re-connection does not occur during the installation process.
2. Run all wires needed for the amplifier to work correctly. Do not attach the fuse in the fuse holder by the battery until all wires have been plugged into the amplifier.
3. Turn the amplifiers gain and boost all the way down (counter clockwise).
4. As a good “starting point” set low pass filter to 80Hz (7 clicks), set the subsonic to the tuning frequency of your enclosure (*refer to EASY CLICK chart on pg.13 for exact tuning*), and set the phase to 0.
5. Make sure Bass EQ switch is set to OFF and the Strap Mode switch is set to MAS.

6. If using the supplied Remote Gain Control (Bass knob) turn the dial all the way up to the max. (full clockwise)
7. Attach the recommended fuse (*refer to fuse chart on pg.4*) to the fuse holder by the main battery.
8. Re-attach the negative battery post from step 1.
9. Turn the head unit on and start at a low volume. Check amplifier to make sure all wires are correct and no protection lights are on.
10. Set the head unit's tone controls, balance, and fader to the center or flat position. Be sure to turn off any loudness or other signal processors.
11. Use a very clear original recording not mp3 or burned cd. Turn the volume of the head unit to its maximum undistorted volume. On most *quality* head units this is around 7/8 of the maximum volume.
12. Slowly turn up the gain (clockwise) to match the voltage output of the head unit or until the speakers reach the maximum *undistorted* output. *Keep an eye on the clipping LED!*
13. Re-adjust the low pass filter and phase if needed.
14. Turn the Bass EQ "ON" if desired. Now set the center point frequency (*refer to EASY CLICK chart on pg. 13 for exact tuning*) and adjust the BOOST accordingly. *Keep an eye on the clipping LED!*
15. If you have installed the Bass Knob, now you can use it effectively and safely.
16. Play a few different selections of music to check for overall system balance.
17. ENJOY!



EASY CLICK ADJUSTMENT CHART

SUBSONIC

(10 - 55Hz)

CLICKS	Hz
1	10
2	11
3	12
4	13
5	14
6	15
7	17
8	18
9	19
10	20
11	21
12	22
13	23
14	25
15	26
16	27
17	28
18	29
19	30
20	32
21	33
22	34
23	35
24	36
25	37
26	39
27	40
28	41
29	42
30	43
31	44
32	46
33	47
34	48
35	49
36	50
37	51
38	52
39	53
40	54

LOWPASS

(50 - 250Hz)

CLICKS	Hz
1	50
2	55
3	60
4	65
5	70
6	75
7	80
8	85
9	90
10	95
11	100
12	105
13	110
14	115
15	120
16	125
17	130
18	135
19	140
20	145
21	150
22	155
23	160
24	165
25	170
26	175
27	180
28	185
29	190
30	195
31	200
32	205
33	210
34	215
35	220
36	225
37	230
38	235
39	240
40	245

CENTER FREQ.

(20 - 85Hz)

CLICKS	Hz
1	20
2	22
3	24
4	25
5	27
6	29
7	30
8	32
9	34
10	35
11	37
12	39
13	40
14	42
15	44
16	45
17	47
18	49
19	50
20	52
21	54
22	55
23	57
24	59
25	60
26	62
27	64
28	65
29	67
30	69
31	70
32	72
33	74
34	75
35	77
36	79
37	80
38	82
39	84
40	85

SUBSONIC

(25 - 40Hz)

CLICKS	Hz
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40

LOW PASS

(50 - 150Hz)

CLICKS	Hz
1	50
2	52
3	55
4	57
5	60
6	62
7	65
8	67
9	70
10	72
11	75
12	77
13	80
14	82
15	85
16	87
17	90
18	92
19	95
20	97
21	100
22	102
23	105
24	107
25	110
26	112
27	115
28	118
29	121
30	124
31	127
32	130
33	132
34	135
35	137
36	140
37	142
38	145
39	148
40	150

HIGH PASS

(50 - 500Hz)

CLICKS	Hz
1	50
2	61
3	72
4	84
5	95
6	106
7	118
8	130
9	140
10	151
11	160
12	168
13	173
14	185
15	197
16	208
17	219
18	230
19	241
20	253
21	264
22	276
23	287
24	298
25	309
26	320
27	331
28	343
29	355
30	368
31	381
32	394
33	408
34	422
35	436
36	450
37	464
38	478
39	488
40	500

ADDICTIVE AUDIO

LIMITED WARRANTY INFORMATION

Addictive Audio warrants this product to be free from defects in material and workmanship under normal use for a period of one (1) year from date of original purchase when installed by an authorized dealer. Items not installed by an authorized dealer will be warranted for ninety (90) days from date of original purchase. All returns must be accompanied with original sales receipt. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction during the warranty period, Addictive Audio will replace or repair (at its discretion) the defective merchandise with equivalent merchandise at no charge. Discontinued products may be replaced with equivalent products.

This warranty is valid only for the original purchaser and is not extended to owners of the product subsequent to the original purchaser. Any applicable implied warranties are limited in duration to a period of the express warranty as provided herein beginning with the date of original purchase at retail, and no warranties, whether express or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties, therefore these exclusions may not apply to you.

THE FOLLOWING IS NOT COVERED BY WARRANTY

This warranty is valid only if the product is used for the purpose for which it was designed. It does not cover:

- Product Modification
- Damage through negligence, misuse, or accident.
- Items physically damaged due to abuse.
- Failure to follow installation instructions.
- Cosmetic Damage due to accident or normal wear and tear
- Freight damage.
- The cost of shipping product to Addictive Audio Service Center.
- Items repaired by any unauthorized individuals or dealers.
- Items returned from unauthorized individuals or dealers.
- Items returned without original sales receipt
- Return shipping on non-defective items.

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WHAT TO DO IF YOU NEED WARRANTY OR SERVICE

Please follow each step below completely. Warranty or service will not be honored unless each and every step below is completed.

1. Obtain an Return Authorization Number

- Go to: www.addictive-audio.com and click "SUPPORT" then click "OBTAIN R.A.#"
ADDICTIVE AUDIO NO LONGER PROVIDES RA#S BY PHONE. PLEASE VISIT OUR WEBSITE.

2. Pack items in original container(s) or in a package that will prevent shipping damage.

- Original sales receipt from Authorized Dealer must be included for each item returned.

3. The RA# should be clearly marked on outside of the package. Return only defective components.

4. Freight must be prepaid; items received freight collect will be refused.

THE SHIP TO ADDRESS AND INSTRUCTIONS WILL BE EMAILED TO YOU WITH THE RA#.

Failure to complete any one of the steps above when obtaining warranty/service may void your warranty.

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