



AMPLIFIERS

TXi4408 / TXi6408 / TXi4008
TXi6008 / TXi7508
TXi1008D / TXi1508D

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TITAN SERIES HIGH PERFORMANCE AMPLIFIERS

As Hifonics celebrates it's 25th Anniversary of producing the finest high end car audio products available, we would like to thank you for your continued support.

The Titan Series products have been designed to a very high level of performance, with features unavailable in any other product.

All of the amplifiers have variable crossovers built in, with added touches such as subsonic filter, bass equalization and a bass remote control module(Mono Amps) that allows subsonic bass control from reach of the drivers seat.

To insure years of listening pleasure, all amplifiers have a built in diagnostic mode that will detect shorted speaker leads, low impedance, dangerous high temperatures, DC shorts and will shut down the amp to prevent serious damage.

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GENERAL INSTALLATION PROCEDURE

System Design

The success of any car stereo system relies on several factors, such as the system design, execution of the installation, and system setup. Please remember that any system is only as good as its weakest link.

Please remember that higher power systems are not necessarily useful purely for high sound pressure levels, but also to establish a headroom capability, to reproduce musical peaks cleanly without distortion. Lower power amplifiers will clip earlier than their more powerful cousins, and cause loudspeaker failure when overdriven, due to the harmonics generated by a clipped signal, thus overheating voice coils.

Amplifiers should be mounted with the fins running horizontally for best convection cooling, to minimize overheating. Purchase the best quality RCA cables you can afford, for reliability and less engine noise interference in the audio system.

Installation



It is highly recommended that the amplifier be mounted to a board of MDF or other solid structure using the 4 mounting screws provided. Avoid mounting the amplifier to metal as this can introduce noise and other unwanted issues. When mounting the amplifier, ensure that it is mounted HORIZONTALLY, as shown in the diagram above, for optimal heat dissipation. Mounting amplifiers to speaker enclosures is not recommended as this can cause damage to the amplifier components. When choosing a location for mounting the amplifier, ensure that you check for clearance from wires, gas tank, electrical devices and brake lines etc.



General:

Run the wiring so that RCA cables are at least 18" away from power and speaker cables. Keep RCA cables away from electrical devices in the vehicle that can cause electrical noise, such as electric fuel pumps, emission control modules and other on-board electronic modules.

Power and ground connections (see the features matrix on page 9 for proper gauge cables per amplifier):

Use a sufficient gauge power cable and ground cable using the chart below as reference to what size wire you require. Titan series amplifiers require 4 gauge power wire. In a multi amplifier system, add the total value of the manufacture recommended fusing to get your total system amperage. Some applications may require multiple runs of power wire to meet the system requirements. In multi amplifier systems it is advisable to mount a large enough fuse right at the battery, and run one or multiple +12 volt power cables to a fused distribution block near the amplifiers. It is then a simple matter to connect the +12 volt terminal of each amplifier to the distribution block. During this process, please ensure that the main power fuse is removed to avoid shorting the electrical system. The main fuse must be within 12" of the vehicles battery.

Ground each amplifier with as short a ground lead as possible directly to the vehicle chassis using 4 gauge wire or equivalent to the size of the amplifiers' power wire. Use a ground distribution block, if you wish, but it is extremely important to keep the main ground lead from this distribution block to the chassis as short as possible, not more than 12". The ground connection integrity to the chassis is very important, and the best way to achieve a good, solid electrical and mechanical contact is to use a large round crimp lug, crimped and soldered to the ground cable. The next step is to scrape the paint off the vehicle chassis, slightly larger than the ground lug, at the connection point. Drill a clearance hole in the chassis, the same size as the lug hole, and use a bolt, spring washer and nut to securely fasten the ground lug. Use petroleum jelly to coat the bolt/lug connection, to prevent oxidization with time.

TIP: Use the same approach when installing head units, equalizers or any audio equipment for that matter - run short individual grounds from each piece directly to the vehicle chassis, to minimize ground loops and system noise. All power, ground and speaker connections should be crimped and soldered for reliability. Make sure that none of the cable insulation can chafe against exposed metal in the vehicle, causing short circuits to the chassis.

SYSTEM AMPERAGE	7-10 ft.	10-13 ft.	13-16 ft.	16-19 ft.	19-22 ft.	22-28 ft.
35-50	8	6	4	4	4	4
50-65	6	4	4	4	4	2
68-85	4	4	2	2	2	0
85-105	4	2	2	2	2	0
105-125	4	2	0	0	0	0
125-150	2	0	0	0	0	0

NOTE: This Matrix is a general rule of thumb. Please refer to the manufacturers specific requirements. Titan specifications can be found on page 9.

Safe connection sequence:

After all cables are run, connect speaker wires to the speakers and amplifiers, then run and plug in RCA cables. Next, connect all power, ground, and remote turn on leads. Now connect all +12 volt cables to the amplifier/s and distribution blocks and fuse holders. Finally, connect the main +12 volt cable to the battery, with the main fuse removed, and we are almost ready to power up the system.

Power up the system:

The following procedure may seem like overkill, but there is nothing more frustrating when turning on a system for the first time, and it does not work properly immediately.

First, make sure the head unit is off, and turn all level controls to minimum (counterclockwise), including the head unit volume control. Set all equalizers to 0 dB (no boost), and all crossover frequency controls at approximate frequencies, as recommended by the loudspeaker manufacturer. Set all input selector and crossover switches as required for the application. Remove all amplifier fuses, and insert the main fuse at the battery. If the fuse does not blow, you can insert the fuse in one of the amplifiers, and we are ready to turn on the system. Turn the head unit on, insert a CD, or select a radio station, and increase the head unit volume control. If the system sounds fine, turn off the head unit, and install fuses in the remaining amplifiers, one by one, till the complete system is powered up and functioning properly.

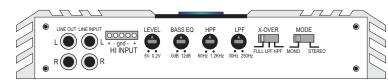
AMPLIFIER FEATURE DESCRIPTIONS

TITAN TXI SERIES AMPLIFIERS:

- Each model is capable of 4 & 2-Ohms stereo per channel, or 4-Ohms mono bridged operation except the mono amps which are capable of 4, 2 and 1-Ohm loads.
- Tri-Mode operation with any stereo pair of amplifier channels is possible, as with all bridgeable amplifiers.
- The input sensitivities for rated output powers are listed below for each model.
- All crossovers are fully variable in their respective ranges.
- Crossover filters are 12dB/Octave.
- A POWER LED indicates the powered up and turned on condition.

- All Hifonics amplifiers feature a comprehensive diagnostic system, with speaker lead short circuit, and amplifier DC faults indicated by the red "PROTECT" LED.
- CAUTION: DO NOT OPERATE ANY AMPLIFIER BELOW THE INTENDED IMPEDANCE.. YOU
 WILL CAUSE DAMAGE TO THE AMPLIFIER THAT WILL NOT BE COVERED UNDER THE
 WARRANTY PRINTED IN THE BACK OF THE MANUAL. 2 & 4 Channel amps are capable of 4
 and 2-Ohms wired stereo and 4-Ohms wired mono bridged. The mono amps are capable of 4, 2
 and 1-Ohm.

TXi4008 / TXi6008 2-CHANNEL AMPLIFIERS



Note that the LOW PASS signal is MONO.

- -In the LPF position, the HIGH PASS filter acts as a subsonic filter.
- -When the LPF mode is selected, a 0 to +12dB, at 45Hz, BASS -EQ is also switched in.

The X-OVER slide switch selects the internal crossover functions:

- -The input signal is routed directly to the LINE OUT RCA jacks, regardless of the X-OVER setting simplifying daisy chaining of amplifiers.
- -HPF: Selects the built in HIGH PASS filter, variable from 60 Hz to 1.2kHz.
- **-FULL:** Bypasses all crossovers for full frequency range operation.
- -LPF: Selects the built in LOW PASS, variable from 30 Hz to 250Hz.

MODE: The mode switch allows you to choose Stereo for full range 2 channel operation or MONO for bridging operation

HIGH INPUT: If your radio/CD player does not have unbalanced (RCA) outputs, you can use the HIGH level (wire) inputs.

LINE INPUT: The line input accepts unbalanced (RCA) inputs from 0.2V to 5V.

LINE OUTPUT: The line output passes through signal from the line inputs which allows you to daisy chain multiple amplifiers from one signal.

The 4 channel amps have the same features as the 2 channel models accept that there are 2 sets of controls.

1 set for channels 1 & 2 and 1 set for channels 3 & 4.

In addition, the 4 channel models have a **Mode** switch which allows you to select 2, 3 or 4 channel operation.

The X-OVER slide switch selects the internal crossover functions:

-The input signal is routed directly to the LINE OUT RCA jacks, regardless of the X-OVER setting simplifying daisy chaining of amplifiers.

-HPF: Selects the built in HIGH PASS filter, variable from 60 Hz to 1.2kHz.

-FULL: Bypasses all crossovers for full frequency range operation.

-LPF: Selects the built in LOW PASS, variable from 30 Hz to 250Hz.

MODE: The mode switch allows you to choose Stereo for full range 2 channel operation or MONO for bridging operation

HIGH INPUT: If your radio/CD player does not have unbalanced (RCA) outputs, you can use the HIGH level (wire) inputs.

LINE INPUT: The line input accepts unbalanced (RCA) inputs from 0.2V to 5V.

LINE OUTPUT: The line output passes through signal from the line inputs which allows you to daisy chain multiple amplifiers from one signal.

TXi4408 / TXi6408 4-CHANNEL AMPLIFIERS



Note that the LOW PASS signal is MONO.

- -In the LPF position, the HIGH PASS filter acts as a subsonic filter.
- -When the LPF mode is selected, a 0 to +12dB, at 45Hz, BASS
- -EQ is also switched in.

TXi7508 1-CHANNEL A/B-CLASS MONO AMPLIFIERS

 $\textbf{LINE INPUT:} \ Accepts unbalanced \ RCA inputs from \ 0.2 \ volts \ to \ 6 \ volts.$

LEVEL: The input level control allows you to match the amplifier input sensitivity to the output level of the RADIO/CD source from 0.2 volts to 6 volts.

REMOTE: The RJ45 Remote jack accepts the Bass Remote Module.

BASS EQ: The Bass Boost is fully adjustable from 0 to 12dB at 45Hz.

SUBSONIC: The variable Subsonic filter is fully adjustable from 15Hz to 55Hz.

LPF: The built-in low pass frequencies are fully variable from 40 to 150Hz.

POWER: Indicates that the amp has power, ground and remote turn-on input via a green L.E.D.

PROTECT: Indicates that the amplifier has detected a fault and will not operate. There are several possible problems that can cause the amplifier to go into the protect mode. See the **trouble shooting guide** in the back of the manual for details.

PROTECT CONTROL

BASS EQ SONIC LPF LEVEL L

Odb 12db 15Hz 55Hz 40Hz 150Hz 6V 0.2V R

The mono amps are capable of 4, 2 & 1-0hm loads. Operating the amp below 1-0hm can cause damage to the amp not covered in the warranty.

-The LINE INPUT signal is routed directly to the LINE OUT RCA jacks, regardless of the X-OVER setting simplifying daisy chaining of amplifiers.

- -SUBSONIC: Allows you to adjust the crossover filter from 15Hz to 35Hz.
- -LPF: Allows yo to adjust the LOW PASS crossover filter from 35Hz to 250Hz.

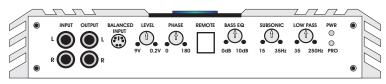
LEVEL: Adjusts the input sensitivity from 0.2 volts to 9 volts. **BASS EQ:** The Bass EQ is adjustable from 0dB to 10dB.

REMOTE: This is the input jack for the under-dash bass remote module.

LINE INPUT: The line input accepts unbalanced (RCA) inputs from 0.2V to 9V.

LINE OUTPUT: The line output passes through signal from the line inputs which allows you to daisy chain multiple amplifiers from one signal.

TXi1008D / TXi1508D 1-CHANNEL D-CLASS MONO BLOCK AMPLIFIERS



The mono amps are capable of 4, 2 & 1-Ohm loads.

Operating the amp below 1-Ohm can cause damage to the amp not covered in the warranty.

TXi4008 / TXi6008 2 CHANNEL AMPLIFIER APPLICATIONS

FULL RANGE STEREO

This is the most basic application for the TITAN Series 2 channel amplifiers.

1. Interconnect cable checklist:

Connect the LINE INPUTS to the Radio/CD with good quality RCA cables.

2. Crossover Switch:

The X-OVER switch must be in the FULL position.

3. Crossover frequency control checklist:

N/A for full range operation.

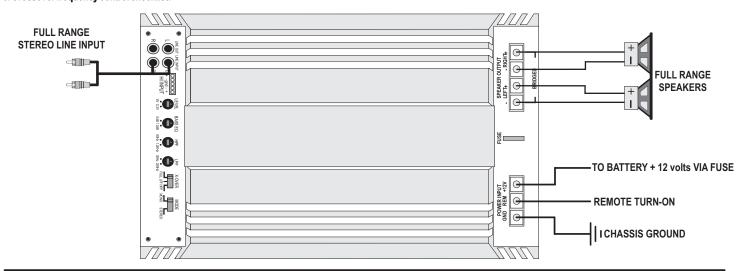
4. Line Level:

Refer to the section "Setting up systems after installation for best performance".

NOTE: Minimum final loudspeaker impedances:

4 &-2-Ohms stereo mode or 4-Ohms mono mode

This amplifier will not do 1-Ohm stereo or 2/1-Ohm mono operation.



FULL RANGE MONO

This application illustrates the basic mono bridging method for all Hifonics 2 channel amplifiers.

Interconnect cable checklist:

A MONO signal source is required, such as would be available from the mono sub bass output of an active crossover, whether stand alone, or built into a head unit or equalizer. **Important:** Do not be tempted to connect the hot, or positive outputs, from any source together to obtain a mono signal, as this could very well damage the output stage of that source.

It is necessary to feed the SAME signal to both left and right inputs via a Y-adapter RCA cable. Connect the mono speaker positive terminal to the RIGHT +, and its negative terminal to LEFT-.

Switch setting checklist:

- The AMPLIFIER X-OVER switch must be in the FULL position.

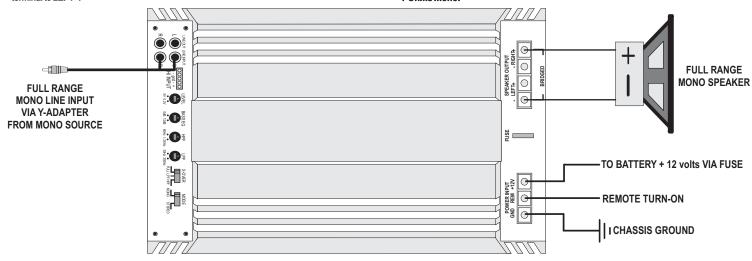
Crossover frequency control setting checklist:

N/A for full range operation.

TIP: If you are using the mono sub bass output of an active crossover, there is nothing wrong with switching in the low pass filter in these amplifiers for a steeper low pass roll-

Minimum final loudspeaker impedance:

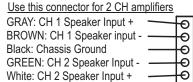
- 4-Ohms mono.

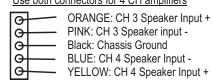


The **HIGH LEVEL** inputs are used when the radio/CD player does not have RCA cable outputs. You can connect the radio/CD player speaker wires directly to the amplifier via the high Level Inputs.

Use this connector for 2 CH amplifiers

Use both connectors for 4 CH amplifiers





TXi4008 / TXi6008 2-CHANNEL AMPLIFIER APPLICATIONS

Stereo high pass with mono low-pass in a 2 way active, or bi-amplified system

In this application we will use a 2 channel amplifier for the high frequencies, and a second one for the low frequencies, or mono sub bass. Please consult the speaker specifications to determine maximum amplifier power requirements.

Interconnect cable checklist:

Connect the inputs of the HIGHS amplifier to a Radio/CD with good quality RCA cables. Connect the LINE OUT of the HIGHS amplifier to the inputs of the BASS amplifier with a stereo RCA to RCA cable.

Mono bass woofer wiring:

Connect the mono speaker positive terminal to the RIGHT+, and its negative terminal to

Switch setting checklist:

- Highs amplifier: X-OVER switch in the HPF position.
- Lows amplifier: X-OVER switch in the LPF position.

Crossover frequency control checklist:

Highs amplifier: - HI PASS: 100 Hz

- LOW PASS: N/A

Lows amplifier:

- HI PASS (Subsonic filter): 10 Hz to 40 Hz
- -LOW PASS: 100 Hz

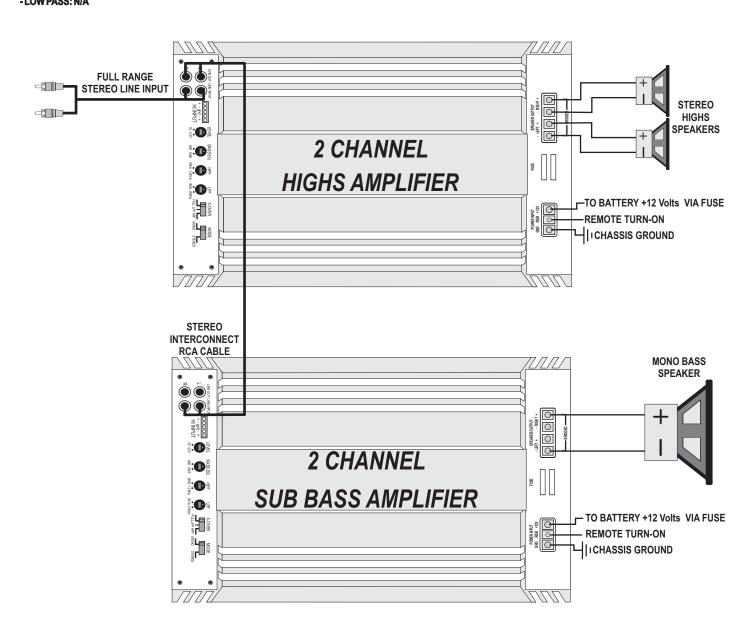
Please note that these frequency points are suggestions only. Refer to the loudspeaker manufacturer specifications and the section "Setting up systems after installation for best performance"

Level control checklist:

- Refer to the section "Setting up systems after installation for best performance"

Minimum final loudspeaker impedances:

- -2-Ohms per channel stereo.
- 4-Ohms mono bridged.



TXi4408 / TXi6408 / 4 CHANNEL AMPLIFIER APPLICATIONS

4 CHANNEL FULL RANGE SYSTEM

Here we show how to use the 4 channel amplifiers as straightforward discrete 4 channel full range units.

Interconnect cable checklist:

- Connect the four inputs of the amplifier to a Radio/CD with quality RCA cables.

Switch setting checklist:

-1/2CHX-OVER: FULL -3/4CHX-OVER: FULL

- HI PASS: N/A - LOW PASS: N/A

Channels 3/4:

Level control checklist:

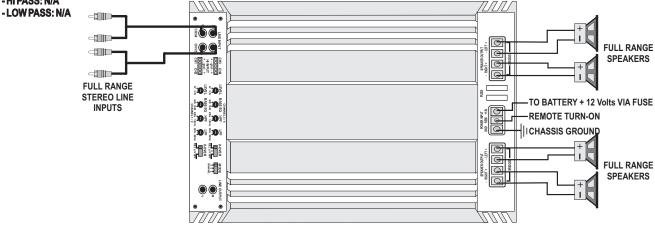
- Refer to the section "Setting up systems after installation for best performance"

Minimum final loudspeaker impedances:

-2-Ohms per channel.

Crossover frequency control checklist:

Channels 1/2: - HI PASS: N/A



2 or 3 CHANNEL FULL RANGE SYSTEM

Here we show how to use the 4 channel amplifiers as full range 2 or 3 channel units by taking advantage of the mono bridging capability of all Hifonics amplifiers.

The following example shows how to create a 3 channel system by mono bridging channel pair 3 / 4. In order to create a 2 channel system, simply follow the example to also mono bridge channel pair 1 / 2.

Interconnect cable checklist:

- Connect the inputs of channel pair 1/2 to a suitable stereo source, e.g. a head unit with good quality RCA cables.
- A MONO signal source is required to bridge channel pair 3/4, such as would be available from the mono sub bass output of an active crossover, whether standalone, or built into a head unit or equalizer.

Important: Do not be tempted to connect the hot, or positive outputs, from any source together to obtain a mono signal, as this could very well damage the output stage of

- It is necessary to feed the SAME signal to both left and right inputs via a Y-adapter RCA cable.
- Connect the mono speaker positive terminal to the LEFT +, and its negative terminal to RIGHT - as shown.

Switch setting checklist:

- 1/2CH X-OVER: FULL

- 3/4CH X-OVER: FULL

Crossover frequency control checklist:

Channels 1/2: - HI PASS: N/A

- LOW PASS: N/A

Channels 3/4:

- HI PASS: N/A

- LOW PASS: N/A

TIP: If you are using the mono sub bass output of an active crossover, there is nothing wrong with switching in the low pass filter in these amplifiers for a steeper low pass rolloff

Level control checklist:

- Refer to the section "Setting up systems after installation for best performance"

Minimum final loudspeaker impedances:

- 2-Ohms per channel in stereo mode.
- 4-Ohms mono bridged.



TXi4408 / TXi6408 4 CHANNEL AMPLIFIER APPLICATIONS

2 way active, or bi-amplified system with mono bass

This application shows how easily a 2 way active system can be implemented using a 4 channel amplifier. Channels 1 and 2 will be used for highs, and channels 3 and 4 for mono

Interconnect cable checklist:

- We need to feed the same signal to both sets of channels, so must use a Y-adapter as shown

Mono bass woofer wiring:

- Connect the mono speaker positive terminal to the LEFT +, and its negative terminal to

Switch setting checklist:

- -1/2CH X-OVER: HP -3/4CH X-OVER: LP
- -LOW PASS: N/A

Crossover frequency control checklist: Channels 1/2: - HI PASS: 100 Hz

- HI PASS (subsonic): 20 Hz
- LOW PASS: 100 Hz

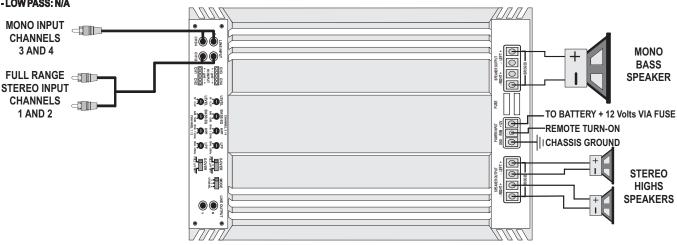
Please note that these frequency points are suggestions only. Refer to the loudspeaker manufacturer specifications and the section "Setting up systems after installation for best performance"

Level control checklist:

Refer to the section "Setting up systems after installation for best performance"

Minimum final loudspeaker impedances:

- -2-Ohms per channel in stereo mode.
- 4-Ohms mono bridged.



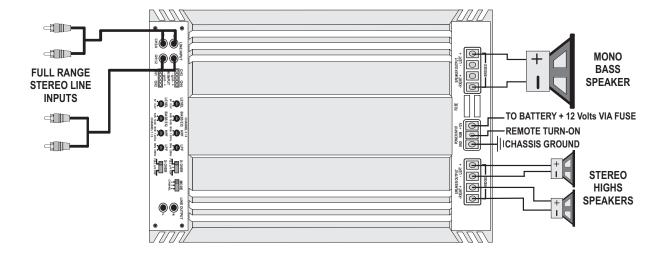
2 way active, or bi-amplified system with mono bass, and faded highs/lows

Here we present a variation of the previous system. Since this is a 2 way system, we can use the front outputs from a head unit to drive the highs, and the rear output to drive the bass This method allows the listener to easily adjust the relative levels of bass to highs, with the front to rear fade on the head unit.

Channels 1 and 2 will be used for highs, and channels 3 and 4 for mono bass.

Interconnect cable checklist:

- Use good quality RCA leads to connect the inputs of the amplifier to the source as shown.
- Follow the instructions as per the previous system for switch and crossover settings.



TXi7508 A/B CLASS 1 CHANNEL AMPLIFIER APPLICATIONS

Basic application

These sub bass amplifiers can be used in any of the bi-amplification systems described in this manual, replacing the 2 channel amplifiers as per the illustrations.

Interconnect cable checklist:

Connect the inputs to a suitable source, e.g. a head unit with good quality RCA cables. Connect the LINE OUT to the inputs of the system highs amplifier.

Use at least #12 gauge speaker wiring. The amps have dual speaker terminals, simplifying the hookup of multiple speakers

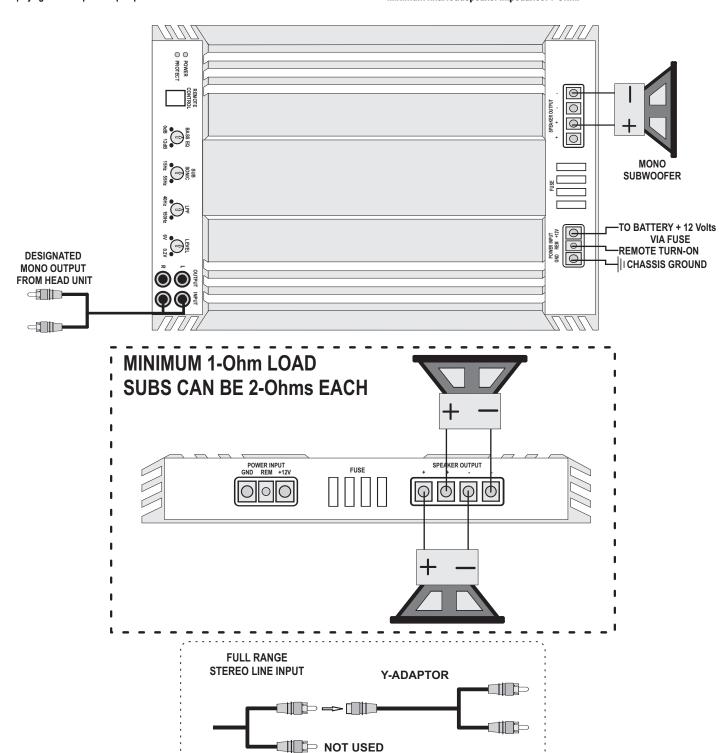
Crossover frequency control checklist:

LOW PASS: 40Hz to 150Hz SUBSONIC:15 Hz to 55 Hz BASS EQ: 0 to +12dB

Level control checklist:

Refer to the section "Setting up systems after installation for best performance"

Minimum final loudspeaker impedance: 1-0hm.



Note: You can use the Radio/CD designated mono line output or a full range stereo line output. For full range stereo line output, you will need an optional "Y-Adaptor" as shown.

TXi1008D / TXi1508D / D CLASS 1 CHANNEL AMPLIFIER APPLICATIONS

Basic application

Interconnect cable checklist:

- Connect the line inputs to a Radio/CD RCA outputs or line output of the full range primary amplifier with good quality RCA cables. A "Y" adapter may be needed as shown in the diagram.
- Use at least #12 gauge speaker wiring. These amplifiers have dual speaker terminals, simplifying the hookup of multiple speakers

Crossover frequency control checklist:

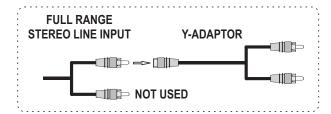
- LOW PASS: 35Hz to 250Hz
- -SUBSONIC:15 Hz to 35 Hz
- -BASS EQ: 0 to 10dB
- PHASE: 0 to 180 degrees

Level control checklist:

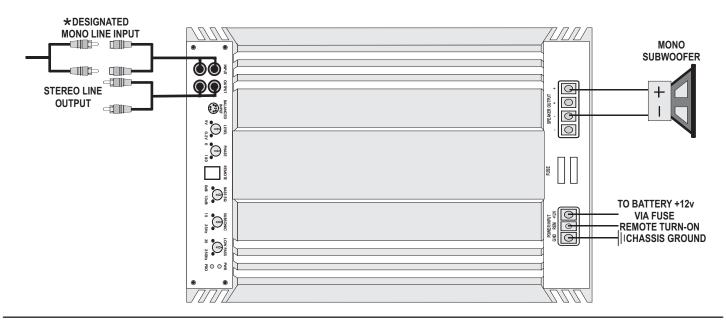
- Refer to the section "Setting up systems after installation for best performance"

Minimum final loudspeaker impedance:

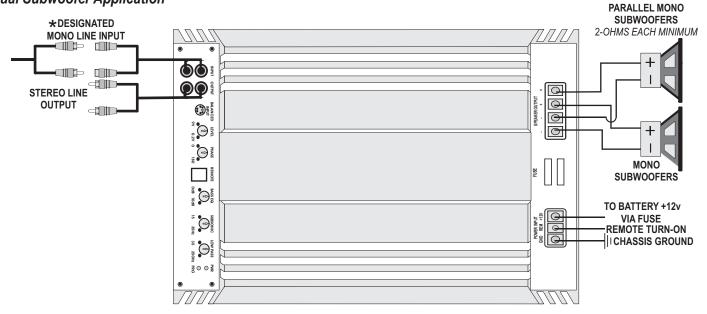
-1 ohm.



★Note: You can use the Radio/CD designated mono line output or a full range stereo line output. For full range stereo line output, you will need an optional "Y-Adaptor" as shown



Dual Subwoofer Application



HIFONICS 25TH ANNIVERSARY TITAN TXI SERIES AMPLIFIER FEATURES

FEATURES TO Output Power Rating	TXi4008 100 x 2 200 x 2	TXi6008	TXi4408	TXi6408	TXi7508	TXi1008D	TXi1508D
onfiguration dB	100×2 200×2						
ridge at 4-Ohms Supply Power Circuit Configuration aneous Spec rt Sound ector S/W loy Response-3dB g Factor io(A-Weight)	100×2 200×2						
sindge at 4-Ohms Supply Supply Power Circuit Configuration aneous Spec art Sound art Sound lector SAV ncy Response-3dB ig Factor itio(A-Weight)	200×2	150×2	55×4	85×4	325×1	350 x 1	450 x 1
ridge at 4-Ohms Supply Supply Power Circuit Configuration aneous Spec art Sound lector SAV ncy Response-3dB it GA-Weight)		300×2	110×4	170×4	500×1	700×1	900 x 1
					750 x 1	1000 x 1	1500 x 1
	400×1	600×1	220×2	340×2			
	PWM	PWM	PWM	PWM	PWM	PWM	PWM
	Mosfet	Mosfet	Mosfet	Mosfet	Mosfet	Mosfet	Mosfet
	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	No	No	No	No			
	30Hz - 1.2KHz	30Hz - 1.2KHz	30Hz - 1.2KHz	30Hz - 1.2KHz	15Hz - 150Hz	15Hz - 250Hz	15Hz - 250Hz
	>180	>180	>180	>180	>200	>200	>200
	> 90dB	> 90dB	8 + 90 dB	> 90dB	> 95dB	> 95dB	> 95dB
THD & N	0.05%	0.05%	0.05%	0.05%	0.10%	0.10%	0.10%
Channel Separation >	> 80dB	800B <	8P08 <	80dB <			
Variable Input Level Control 0.2	0.2V-5.0V	0.2V-5.0V	0.2V-5.0V	0.2V-5.0V	0.2V-6.0V	0.2V-9.0V	0.2V-9.0V
Input Impedance	47kΩ	47KΩ	47kΩ	47kΩ	47KΩ	47KΩ	47k0
red)	Power/Protect	Power/Protect	Power/Protect	Power/Protect	Power/Protect	Power/Protect	Power/Protect
	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Crossover Operation							
Crossover S/W for 1+2 channel FULL	FULL/LPF/HPF	FULL/LPF/HPF	FULL/LPF/HPF	FULL/LPF/HPF			
Variable Hi-Pass / Subsonic Filter 60Hz	60Hz - 1.2KHz	60Hz - 1.2Khz	60Hz - 1.2KHz	60Hz - 1.2KHz			
Variable Low-Pass (Mono 24dB) 30Hz	30Hz~250Hz	30Hz~250Hz	30Hz~250Hz	30Hz~250Hz	40Hz - 150Hz	35Hz - 250Hz	35Hz - 250Hz
Variable Subsonic Filter	S S	2	No No	S	15Hz - 55Hz	15Hz - 35Hz	15Hz - 35Hz
Bass Boost at 45Hz 0	0 ~ 12dB	0 ~ 12dB	0~12dB	0~12dB	0~12dB	0 ~ 10dB	0~10dB
Crossover S/W for 3+4 channel	No	No	FULL/LPF/HPF	FULL/LPF/HPF			
Variable Hi-Pass	No	No	60Hz - 1.2KHz	60Hz - 1.2KHz			
Variable Low-Pass (Mono 24dB)	No	No	30Hz~250Hz	30Hz~250Hz			
Variable Subsonic Filter	No	No	No	No			
Bass Boost at 45Hz	No	No	0 ~ 12dB	0 ~ 12dB			
Line Output Ful	Full Range	Full Range	Full Range	Full Range	Full Range	Full Range	Full Range
Unbalanced Input(RCA Jack)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High Level Inputs	Yes	Yes	Yes	Yes	No	No	No
Phone Jack for Remote Control	No	٥N	No	No	Yes	Yes	Yes
Bass Boost Remote Control Module	°Z	2	No	No	Yes	Yes	Yes
Illuminated HIFONICS Badge	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Terminal	4-GA	4-GA	4-GA	4-GA	4-GA	4-GA	4-GA
erminal	10-GA	10-GA	12-GA	12-GA	10-GA	10-GA	10-GA
	30 Amp	40 Amp x 2	25 Amp x 2	30 Amp x 2	30 Amp x 4	80 Amp	60 Amp x 2
Dimensions Length x Width x Height (inches) 7.87 x	7.87 × 9.07 × 2.36	14.96×9.07×2.36	12.6 × 9.07 × 2.36	14.17×9.07×2.36	17.72×9.07×2.36	11.42×9.06×2.4	13.78 × 9.06 × 2.4
Note: Features subject to change with out notice							

SETTING UP SYSTEMS AFTER INSTALLATION FOR BEST PERFORMANCE

TXi4008 / TXi6008 / TXi4408 / TXi6408

General:

At this point you are ready to get more specific on the settings for your amplifier.

High Pass:

-When in Hi Pass operation, this setting acts as a low frequency cut off for your system reproduction. The point that you set it at cuts off any frequencies from reproduction beyond this point. The 12 o'clock position is a great starting point. EXAMPLE: If you adjust the High Pass to 100Hz, the amplifier will not play frequencies below 100Hz but will play frequencies from 100Hz to the chosen Low Pass frequency.

-When in Low Pass/Bandpass operation, this setting acts as a low frequency cut off for your system reproduction aka Subsonic Filter. The point that you set it at cuts off any frequencies from reproduction beyond this point. The 12 o'clock position is a great starting point. EXAMPLE: If you adjust the High Pass to 25Hz, the amplifier will not play frequencies below 25Hz but will play frequencies from 25Hz to the chosen Low Pass frequency.

-When in Flat/Full operation, the High Pass crossover is bypassed.

Bass EQ:

This setting is a fixed bass boost at 45Hz that is variable from 0-12dB. This feature provides impact to your bass, but if not adjusted correctly, it can be over used and cause damage to your speakers and amplifiers. It is best to slowly turn this setting clockwise until the desired punch is felt. It is not recommended to exceed the 12 o'clock position unless listening at a low volume or a low recording quality as this can result in high distortion and possibly clipping.

Low Pass:

The Low Pass control acts as a ceiling and doesn't allow frequencies to the right of the desired setting to be reproduced. Turning the potentiometer all the way to the right is a great starting point. EXAMPLE: If you adjust the Low Pass to 120Hz, the amplifier will not play frequencies above 120Hz but will play frequencies from 120Hz to the chosen Hi Pass or Subsonic frequency.

-When in Hi Pass operation, this setting is bypassed.

Level Control Setup:

Ensure that the Level is turned completely to the left prior to turning the system on. Next you should insert a CD or cassette that you are familiar with to use as a reference, and turn the head unit volume control to about 80% of its full setting. The system sound level will of course be very low, and the following procedures will help you to match the amplifier input sensitivities properly to the head unit output signal level.

It is important to match the amplifier LEVEL input sensitivity to the Radio/CD output sensitivity. This can be located in the Radio/CD manual.

If the Radio/CD output sensitivity is 2 volts, then adjust the amplifier LEVEL input to 2 volts.

If you are not sure what the Radio output sensitivity is, follow these general guide lines:

Turn the level control up slowly, till you hear distortion, then back off a few degrees on the control. If at any point your amplifier goes into protection, you will need to turn the Level to the left a bit and then try again. If you reach a point where the output does not increase, stop turning the Level control to the right as the amplifier/speaker combo has reached its maxx output in this application.

2 or 3 way active systems (all):

Always start with the bass, or low frequency amplifier as a reference, by turning its control up to the point where distortion is audible, and back it off some.

Now adjust the level control for the highs or tweeter channels in a 2 way active system, to balance the highs to lows.

In a 3 way active system, match the midrange level to the bass, and then the highs to the midrange and bass. It may be necessary to perform a few iterations of the midrange and highs level

TXi7508 / TXi1008D / TXi1508D

General:

At this point you are ready to get more specific on the settings for your amplifier.

Subsonic

This setting acts as a low frequency cut off for your system bass reproduction. The point that you set it at cuts off any frequencies from reproduction beyond this point. The 12 o'clock position is a great starting point. EXAMPLE: If you adjust the Subsonic to 25Hz, the amplifier will not play frequencies below 25Hz but will play frequencies from 25Hz to the chosen Low Pass frequency.

Bass EQ:

This setting is a fixed bass boost at 45Hz that is variable from 0-12dB for the Txi7508 and 0-10dB for the TXi1008D and TXi1508D. This feature provides impact to your bass, but if not adjusted correctly, it can be over used and cause damage to your subwoofers and amplifiers. It is best to slowly turn this setting clockwise until the desired punch is felt. It is not recommended to exceed the 12 o'clock position unless listening at a low volume or a low recording quality as this can result in high distortion and possibly clipping.

Low Pass

The Low Pass control acts as a ceiling and doesn't allow frequencies to the right of the desired setting to be reproduced. The 12 o'clock position is a great starting point. EXAMPLE: If you adjust the Low Pass to 80Hz, the amplifier will not play frequencies above 80Hz but will play frequencies from 80Hz to the chosen Subsonic frequency.

Phase(TXi1008D and TXi1508D only):

The variable Phase adjustment allows you to change the relative time that the waveform meets your ear. With standard subwoofer installations where the subwoofer is behind you, the Phase should generally be at 0. When subwoofers or woofers are in the kick panels or door panels, the Phase adjustment is useful in delaying the timing of the wave meeting your ear by adjusting the potentiometer to 180 degrees.

Level Control Setup:

Ensure that the Level is turned completely to the left prior to turning the system on. Next you should insert a CD or cassette that you are familiar with to use as a reference, and turn the head unit volume control to about 80% of its full setting. The system sound level will of course be very low, and the following procedures will help you to match the amplifier input sensitivities properly to the head unit output signal level.

It is important to match the amplifier LEVEL input sensitivity to the Radio/CD output sensitivity. This can be located in the Radio/CD manual.

If the Radio/CD output sensitivity is 2 volts, then adjust the amplifier LEVEL input to 2 volts.

If you are not sure what the Radio output sensitivity is, follow these general guide lines:

Turn the level control up slowly, till you hear distortion, then back off a few degrees on the control. If at any point your amplifier goes into protection, you will need to turn the Level to the left a bit and then try again. If you reach a point where the output does not increase, stop turning the Level control to the right as the amplifier/subwoofer combo has reached its maxx output in this application.

TROUBLESHOOTING A SYSTEM

The key to finding the problem in a misbehaving sound system is to isolate parts of that system in a logical fashion to track down the fault.

Description of the PROTECT system built into all TITAN amplifiers

The diagnostic system will shut down the amplifier, until reset by turning the head unit off, and back on. This state of affairs will be indicated by the front panel PROTECT LED lighting up under the following conditions:

- 1-Asort circuit on the loudspeaker leads.
- 2-An internal amplifier fault that causes a DC offset on the loudspeaker output.

Should the amplifier go into protect mode, simply disconnect all RCA and speaker leads, while keeping +12 volt, power ground and remote leads connected.

- 1. Now turn the amplifier back on, and if the diagnostic LED lights, the amplifier has an internal fault.
- 2. If not, plug the RCA cables back, and reset the amplifier. If it goes into diagnostic now, the fault lies in the input, either with bad cables or source unit.
- 3. If the amplifier seems fine with RCA cables plugged in, connect the speakers, one at a time, and if one of the speakers or its wiring is faulty, it will activate the diagnostic system.

Amplifier heatsink overheating

The amplifiers will shut down when the heatsink temperature reaches 80 degrees centigrade, and turn back on once the unit has cooled down below that point.

Causes of overheating:

- 1 Inadequate cooling relocate or remount to provide better natural airflow over the fins.
- 2 Driving high power levels into low impedances back off on the volume control, and/or make sure you are not loading the amplifier with less than the recommended loudspeaker impedance.

Low output power

- 1 Check that level controls have been set up properly.
- 2 Make sure that the battery voltage, as measured at the amplifier's +12 volt and ground terminals, is 11 volts or more.
- 3 Check all +12 volt and ground connections.

Fuses blowing

- 1 The use of loudspeaker impedances below the recommended minimums will draw more current.
- 2-A short on the main +12 volt cable from the battery to the vehicle chassis will cause the main fuse to blow.
- 3 If an amplifier fuse blows continually, with only +12 volt, ground and remote leads connected, the amplifier may be faulty.

System does not turn on

- 1 Check all fuses.
- 2-Check all connections.
- 3 Measure the +12 volt and remote turn on voltages at the amplifier terminals. If these are non existent or low, take voltage measurements at fuse holders, distribution blocks, the head unit's +12 volt and remote leads to localize the problem.

Noise problems

System noise can be divided into two categories, hiss, and electrical interference.

Hiss, or white noise

- 1 High levels of white noise usually occurs when amplifier level controls are turned up too high readjust according to the procedures in section "Setting up systems after installation for best performance"
- 2-Another major problem that can cause excessive hiss, is a noisy head unit unplug the amplifier input RCA cables, and if the hiss level reduces, the source unit is at fault.

Electrical interference

The inside of an automobile is a very hostile electrical environment. The multitude of electrical systems, such as the ignition system, alternator, fuel pumps, air conditioners, to mention just a few, create radiated electrical fields, as well as noise on the +12 volt supply and ground. Remember to isolate the problem - first unplug amplifier input RCA cables, if the noise is still present, check the speaker leads, if not, plug the RCA's back, and investigate the source driving the amplifier, one component at a time.

A ticking or whine that changes with engine RPM:

- 1-This problem could be caused by radiation pickup of RCA cables too near to a fuel pump or a distributor, for instance, relocate cables.
- 2 Check that the head unit ground is connected straight to the vehicle chassis, and does not use factory wiring for ground.
- 3-Try to supply the head unit with a clean +12 volt supply directly from the battery +, instead of using a supply from the in dash wiring/fusebox.

A constant whine:

This type of noise can be more difficult to pinpoint, but is usually caused by some kind of instability, causing oscillations in the system.

- 1 Check all connections, especially for good grounds.
- 2 Make sure that no speaker leads are shorting to exposed metal on the vehicle chassis.
- 3-RCA cables are notorious for their problematic nature, so check that these are good, in particular the shield connections.



Maxxsonics Limited Warranty

As the manufacturer of Maxxsonics, Autotek, Crunch, MB Quart and Hifonics car audio products, Maxxsonics USA Inc. Warrants to the original consumer purchaser the amplifier to be free from defects in material and workmanship for one (1) Year from date of purchase.

All other parts and accessories of the system are warrantied to be free from defects in material and workmanship for one (1) year from date of purchase. Maxxsonics will repair or replace at it's option and free of charge during the warranty period, any system component that proves defective in materials and workmanship under normal installation, use and service provided that the product is returned to the authorized Maxxsonics dealer from where it was purchased. A photo copy of the original receipt must accompany the product being returned.

Valid purchase receipts will contain the name and address of the authorized reseller.

Any damage to the product as a result of misuse, abuse, accident, incorrect wiring, improper installation, alteration of date code or bar code labels, revolution, natural disaster, or any sneaky stuff because someone messed up, repair or alteration out side of our factory or authorized service centers and any thing else you have done that you should not have done is not covered.

This warranty is limited to defective parts and specifically excludes any incidental or consequential damages connected therewith. This warranty is not to be construed as an insurance policy.

Warranty on installation labor, removal, re-installation and freight charges are not the responsibility of Maxxsonics USA Inc.

Warranty products damaged as a result of insufficient or improper packing materials are not covered by this limited warranty and such damaged product will be returned "as is" at the expense of the owner.





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