



ASP-Q3
Quick Guide

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The installation of the product must be done by professional technicians. Always contact a ZAPCO Authorized Dealer.

Before you start your installation

ZAPCO highly recommends that a fuse or circuit breaker be placed within 18" of the battery. The protection device should be placed where it can be accessed easily and all wiring should be routed safely and correctly according to the following guidelines:

- Do not run wiring close to hot or spinning objects
- Always use wire grommets when routing wire through the firewall or any other metal panels
- Make sure that the potential for pinched wiring is avoided by routing all wires away from moving objects, including brake, gas and clutch pedals, etc.

Planning your power connections

- The +12V B is the main power input. This must be connected to the vehicle battery's positive (+) terminal
- The GND is the main ground or negative connection. This must be securely attached to bare metal at the vehicle frame

- The terminal between the main power and ground is the +12 turn-on input (REM) and can be connected to the head unit turn-on output wire. If none is available it can be connected to an accessory (ACC) terminal

Setting Gains

Gain pots are not volume controls and should be used only if absolutely necessary. Turning up gain controls causes increased noise, makes distortion more likely and reduces the dynamic range of your system.

Continuous exposure to excessive sound pressure levels may cause hearing damage. ZAPCO strongly advises that you use common sense when setting volume levels. Everything written in this manual is for the proper use of the products. Some features or specifications could be modified during production to improve the product performance. The technical specifications and functionalities stated here are current as of the time of publication.

L'installazione del prodotto deve essere effettuata da tecnici professionisti. Rivolgersi ad un Rivenditore Autorizzato ZAPCO.

Prima di iniziare l'installazione

ZAPCO consiglia vivamente di posizionare un fusibile entro 18" dalla batteria. Il dispositivo di protezione deve essere posizionato in un punto di facile accesso e tutti i cablaggi devono essere instradati in modo sicuro e corretto secondo le seguenti linee guida:

- Non eseguire il cablaggio vicino ad oggetti caldi o taglienti

- Utilizzare sempre i passacavi quando si instrada il cavo attraverso pannelli metallici
- Assicurarsi che venga evitato il rischio di schiacciamento dei cavi allontanando tutti i cavi da oggetti in movimento, inclusi i pedali del freno, dell'acceleratore e della frizione

Pianificare l'alimentazione

- Il +12V B è l'ingresso di alimentazione principale. Questo deve essere collegato al terminale positivo (+) della batteria dell'auto

- Il GND è la massa principale o il collegamento negativo. Questo deve essere fissato saldamente al metallo del telaio del veicolo

- Il terminale tra l'alimentazione principale e la massa è l'ingresso di accensione +12 (REM) e può essere collegato al cavo di uscita di accensione dell'unità principale. Se non è disponibile, può essere collegato ad un terminale accessorio (ACC)

Regolazione guadagni

I potenziometri di guadagno non sono controlli del volume dovrebbero essere usati solo se assolutamente necessario. Aumentare il guadagno provoca un aumento del rumore, distorsione e riduce la gamma dinamica.

L'esposizione continua a livelli di pressione sonora eccessivi può causare danni all'udito. ZAPCO consiglia vivamente di utilizzare il buon senso quando si impostano i livelli di volume. Tutto quanto scritto in questo manuale è finalizzato al corretto utilizzo dei prodotti. Alcune caratteristiche o specifiche possono essere modificate durante la produzione per migliorare il prodotto. Le specifiche tecniche e le funzionalità qui riportate sono aggiornate al momento della pubblicazione.

Die Produktinstallation sollte von professionellen Technikern durchgeführt werden. Wenden Sie sich immer an einen Autorisierten ZAPCO-Händler.

Bevor Sie mit der Installation beginnen

ZAPCO empfiehlt dringend, eine Sicherung innerhalb von 18 Zoll von der Batterie zu platzieren. Der Schutz muss an einer leicht zugänglichen Stelle angebracht werden und die gesamte Verkabelung muss gemäß den folgenden Richtlinien sicher und korrekt verlegt werden:

- Verkabeln Sie das Gerät nicht in der Nähe von heißen oder scharfen Gegenständen

- Bei der Kabeldurchführung immer Kabelverschraubungen verwenden Metallplatten
- Stellen Sie sicher, dass die Gefahr eines Einklemmens des Kabels vermieden wird, indem Sie alle Kabel von sich bewegenden Objekten fernhalten, einschließlich Brems-, Gas- und Kupplungspedale usw

Planen Sie die Stromversorgung

- +12V B ist der Hauptstromeingang. Dieser muss an den Pluspol (+) der Autobatterie angeschlossen werden
- Der GND ist die Hauptmasse oder negative Verbindung. Dieser muss sicher am Metall des Fahrzeugchassis befestigt sein
- Der Anschluss zwischen Hauptstrom und Masse ist der Zündeingang +12 (REM) und kann an die Zündausgangslleitung des Hauptgeräts angeschlossen werden. Wenn es nicht verfügbar ist, kann es an ein Zubehörterminal (ACC) angeschlossen werden

Verstärkungsanpassung
Gain-Potentiometer sind keine Lautstärkeregler, sie sollten es sein nur dann verwendet werden, wenn dies unbedingt erforderlich ist. Eine Erhöhung der Verstärkung führt zu mehr Rauschen und Verzerrungen und verringert den Dynamikbereich.

Ständige Einwirkung übermäßiger Schalldruckpegel kann zu Gehörschäden führen. ZAPCO empfiehlt dringend, beim Einstellen der Lautstärke den gesunden Menschenverstand zu nutzen. Alles, was in diesem Handbuch geschrieben wird, zielt auf die korrekte Verwendung der Produkte ab. Einige Funktionen oder Spezifikationen können während der Produktion geändert werden, um das Produkt zu verbessern. Die hier gezeigten technischen Spezifikationen und Funktionen sind zum Zeitpunkt der Veröffentlichung aktuell.

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L'installation du produit doit être effectuée par des techniciens professionnels. Contactez toujours un Revendeur agréé ZAPCO.

Avant de commencer votre installation

ZAPCO recommande fortement qu'un fusible ou un disjoncteur soit placé à moins de 18 pouces (moins de 45 centimètres) de la batterie. Le dispositif de protection doit être placé là où il est facilement accessible et tout le câblage doit être acheminé en toute sécurité et correctement selon les directives suivantes:

- Ne faites pas passer le câblage à proximité d'objets chauds ou en rotation
- Utilisez toujours des passe-fils lorsque vous faites passer le fil à travers le pare-feu ou tout autre panneau métallique

- Assurez-vous que tout risque de pincement des câbles soit évité en acheminant tous les fils loin des objets en mouvement, y compris les pédales de frein, d'accélérateur, d'embrayage, etc.

Planification de vos connexions électriques

- Le +12V B est l'entrée d'alimentation principale. Celui-ci doit être connecté à la borne positive (+) de la batterie du véhicule

- Le GND est la masse principale ou connexion négative. Celui-ci doit être solidement fixé au métal nu sur le châssis du véhicule

- La borne entre l'alimentation principale (+12V B) et la masse (GND) est l'entrée de mise sous tension +12 (REM) et peut être connectée au fil de sortie de mise sous tension de l'unité principale. Si aucun n'est disponible, il peut être connecté à une borne accessoire (ACC). Vous devez éviter d'utiliser des fils d'allumage (IGN), car ils peuvent être bruyants

Définition des gains

Les potentiomètres de gain ne sont pas des commandes de volume. Augmenter les commandes de gain entraîne une augmentation du bruit, rend la distorsion plus probable et réduit la plage dynamique de votre système.

Une exposition continue à des niveaux de pression sonore excessifs peut provoquer des lésions auditives. ZAPCO vous conseille fortement de faire preuve de bon sens lors du réglage des niveaux de volume. Tout ce qui est écrit dans ce manuel est destiné à la bonne utilisation des produits. Certaines caractéristiques ou spécifications pourraient être modifiées en cours de production pour améliorer les performances du produit. Les spécifications techniques et les fonctionnalités indiquées ici sont à jour au moment de la publication.

La instalación del producto debe ser realizada por técnicos profesionales. Comuníquese siempre con un Distribuidor Autorizado ZAPCO.

Antes de comenzar su instalación

ZAPCO recomienda encarecidamente colocar un fusible o disyuntor a 18 pulgadas (menos de 45 cm) de la batería. El dispositivo de protección debe colocarse en un lugar de fácil acceso y todo el cableado debe tenderse de forma segura y correcta de acuerdo con las siguientes pautas:

- No tienda cables cerca de objetos calientes o giratorios

- Utilice siempre pasacables cuando pase el cable a través del cortafuegos o cualquier otro panel metálico
- Asegúrese de evitar la posibilidad de que los cables queden atrapados colocando todos los cables lejos de objetos en movimiento, incluidos los pedales de freno, acelerador, embrague, etc.

Planificación de sus conexiones eléctricas

- El +12V B es la entrada de alimentación principal. Este debe conectarse al terminal positivo (+) de la batería del vehículo
- El GND es la conexión a tierra principal o negativa. Este debe estar firmemente sujeto al metal desnudo en el marco del vehículo
- El terminal entre la alimentación principal (+12V B) y tierra (GND) es la entrada de encendido +12 (REM) y se puede conectar al cable de salida de encendido de la unidad principal. Si no hay ninguno disponible, se puede conectar a un terminal accesorio (ACC). Debes evitar el uso de cualquier cable de encendido (IGN), ya que pueden ser ruidosos

Configuración de ganancias

Los potenciómetros de ganancia no son controles de volumen. Antes de encender su sistema por primera vez, debe asegurarse de que todos los controles de ganancia estén configurados al mínimo. Los controles de ganancia deben usarse sólo si es absolutamente necesario. Subir los controles de ganancia provoca un aumento del ruido, aumenta la probabilidad de distorsión y reduce el rango dinámico de su sistema. Si su unidad principal no tiene suficiente salida, obtendrá resultados mucho mejores si invierte en un amplificador de línea para proporcionar más señal al amplificador.

La exposición continua a niveles excesivos de presión sonora puede causar daños auditivos. ZAPCO recomienda que utilice el sentido común al configurar los niveles de volumen. Todo lo escrito en este manual es para el uso adecuado de los productos. Algunas características o especificaciones podrían modificarse durante la producción para mejorar el rendimiento del producto. Las especificaciones técnicas y las funcionalidades aquí indicadas están actualizadas en el momento de la publicación.

产品的安装必须由熟练的技术人员完成。请始终联系 ZAPCO 授权经销商。

开始安装前

ZAPCO 强烈建议在电池附近的 18 英寸 (约 45.7 厘米) 内放置一个保险丝或断路器。保护装置应放置在易于触及的位置, 所有布线应根据以下准则安全正确地布置:

- 不要将电线靠近热源或旋转物体

- 在将电线引导穿越防火墙或任何其他金属面板时, 务必使用电线 防护套

- 确保所有电线远离汽车可以移动的部件, 包括刹车, 油门和离合 踏板等, 以避免电线被夹

电源连接的准备工

- +12V B 是主要的电源输入, 必须连接到车辆电池的正极 (+) 端

- GND 是主要的接地或负极连接, 必须牢固地连接到车辆车架上的裸露金属部位

- 主电源和地之间的端子是 +12 转换输入 (REM), 可以连接到主机的 开关输出线。如果没有可用的线, 它可以连接到附件 (ACC) 终端, 应避免使用任何点火 (IGN) 线, 因为这可能会产生噪音

设置增益

增益旋钮不是音量控制, 在首次启动系统之前, 应确保所有增益控制设置为最小值。增益控制只应在绝对必要的情况下使用。增大增益控制会导致噪音增加, 增加失真的可能性, 并降低系统的动态范围。如果您的主机输出不足, 最好购买信号放大器以向功放机提供更多信号, 从而获得更好的音效。

长时间暴露于过高的声压级可能会导致听力损伤。ZAPCO 强烈建议在设置音量水平时要注意保护听力。本手册中的所有内容都是为了正确使用产品而编写的。一些功能或规格可能会在生产过程中进行修改以提高产品性能。此处陈述的技术规格和功能只针对本手册出版日期前的功放机产品

ZAPCO Analog Processors

Welcome to the world of Zapco analog signal processing. For over 40 years Zapco signal processors have been known as the best that money can buy; a reputation that began with the PEQ in the late 70's, then the PX (the worlds first true audiophile quality EQ/Crossover) in the 80's, and the SX-SL, the EQ-30, and DAII, the combination that set the standards for the 90's and beyond. In 2004, Zapco led the industry into the digital age by developing the first full function Digital Signal Processor (the DSP-6) for the car and a full line of amplifiers with on-board digital processing. Zapco recognizes though, that despite its many advantages, digital processing does come with a sonic price. Just as most audiophiles continue to buy vinyl records and turntables in the digital age, they prefer analog processing to digital for the same reason... sonic purity. Recorded music loses some of its essence in the digital domain. As a result, analog reproduction is simply more "musical" and life-like than digital. So for 2015, Zapco introduces its line of Analog processors for the needs of today's audiophile listeners. These processors provide equalization, crossovers, line drivers and processors designed to take OEM signal from a factory stereo and adapt it for use in our high output processors.

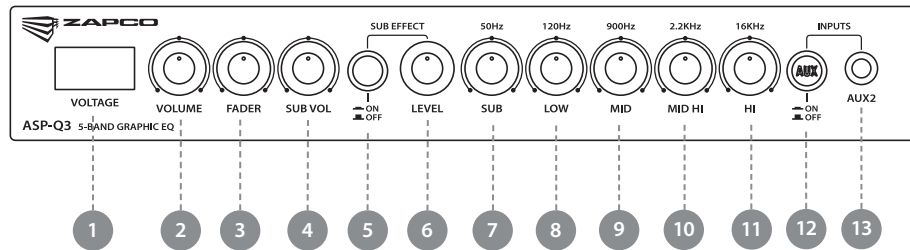
Gain Setting

Getting the Most from your Zapco Processor

Proper gain setting is one of the most important factors in setting up a stereo system; at the same time, it is the setting most often done wrong. Turning up the gain of an processor/amp is the very last thing you should ever do to a system. An amplifier is a step up transformer. Period! Anything you put in gets boosted by a fixed factor. Music, hiss, or any other noise. It doesn't matter! A large number of noise problems are simply a matter of improper gain settings. The goal of gain setting is to achieve the maximum amount of musical output from the processor/amp while getting the least amount of hiss or noise from the system; you are attempting to find the "maximum unclipped" signal level. The basic gain setting is very simple and requires no special tools. Advanced settings can be made with a digital volt meter and oscilloscope, but these should be left to an experienced installer. Whether you have a system with a deck and an amp, or a system with a deck, line driver, eq, crossover, and amp, the procedure always is the same. Start at the deck! Not at the processor/amp! First, hook up the system with all gain controls at minimum (turn all gain pots fully counter-clockwise with a small screwdriver). Then turn on the head unit and turn up the volume. If you get clean sound, and more volume than you want, you don't need to make any adjustments. However, if you turn up the volume and begin to hear distorted sound before it becomes loud, you are clipping (distorting) the deck (probably a little over $\frac{3}{4}$ volume). If this happens, turn the deck down just enough to hear clean sound again. This is your "Maximum Unclipped" volume. Now move to the next component in your system. With the deck playing at "maximum unclipped" volume, adjust the input gain of the next component in the system to its "maximum unclipped" volume. If you adjust your gains this way, always starting at the head unit and working down the line to the amp, you will get the most performance out of your system with the least unwanted noise.

NOTE: You do not "feel" high volume sound in your ears, it's distortion that makes a system sound "loud" and become uncomfortable. Proper gain setting will allow the maximum volume with the minimum distortion so you can turn the system up till the windows rattle, and it will never sound "too loud". Having properly set gains will allow you to comfortably play the system at a much higher SPL, the fact that it is now more comfortable to play at a higher SPL does not mean it is safer. The functioning devices in your ear do not have very good pain receptors so even if it does not "feel" like it hurts, excessively high SPL absolutely will damage your hearing. So, please practice safe sound!

ASP-Q3 Front Panel

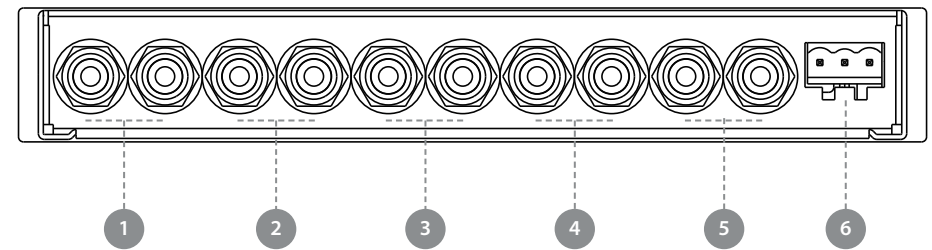


- 1• Voltage Display
- 2• Volume Control
- 3• Fader Control
- 4• Subwoofer Volume

- 5• Sub Effect On/Off
- 6• Sub Effect Level
- 7• Sub Frequency Control
- 8• Low Frequency Control

- 9• Mid Frequency Control
- 10• Mid-High Frequency Control
- 11• High Frequency Control
- 12• Input Aux On/Off
- 13• Input Aux 2

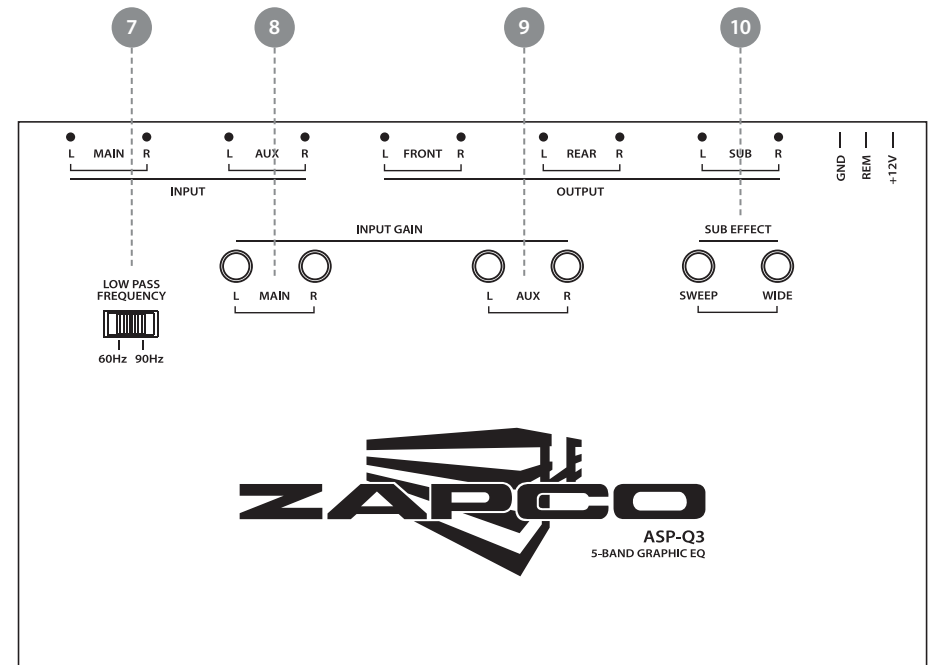
ASP-Q3 Top/Back Panel



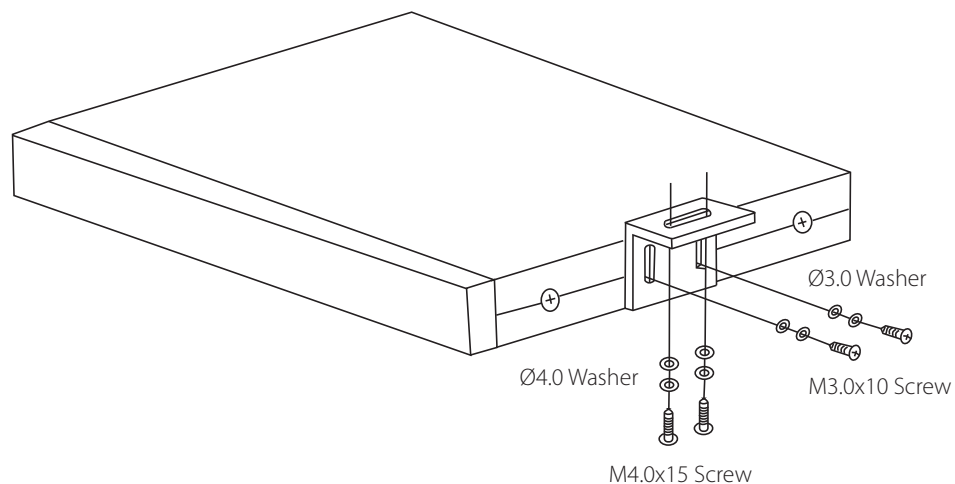
- 1• Main Input
- 2• AUX Input
- 3• Front Amp Output
- 4• Rear Amp Output
- 5• Subwoofer Amp Output

- 6• Power Supply Input
- 7• Low Pass Frequency Switch
- 8• Main Input Gain Control
- 9• Aux Input Gain Control

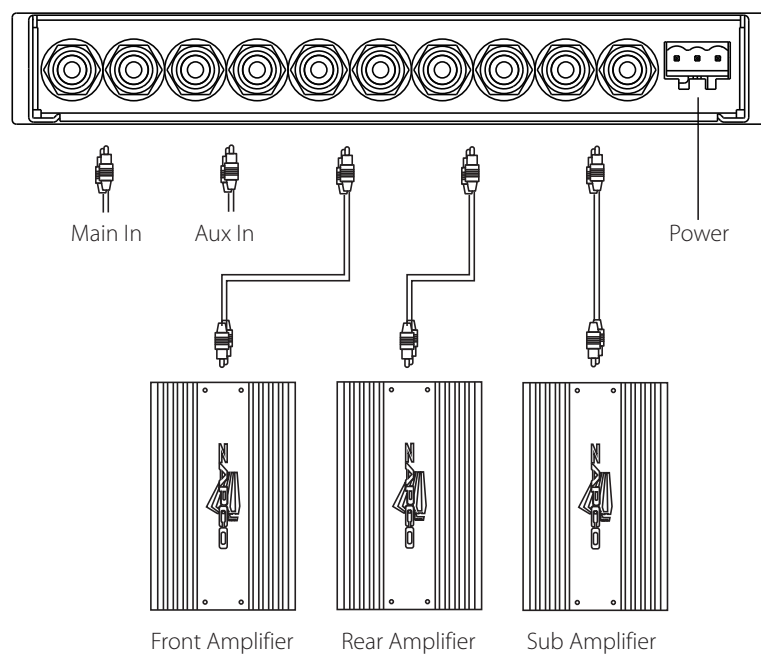
- 10• Sub Effect Sweep allows to pick the center frequency. Wide adjusts the frequency range width.



ASP-Q3 Installation



ASP-Q3 Wiring Diagram



Technical Specifications

Type	5-Band Pre/Equalizer
S/N Ratio	90dB
THD	0.05%
Sub Frequency	50 Hz
Low Frequency	120 Hz
Mid Frequency	900 Hz
Mid-High Frequency	2.2 KHz
High Frequency	16 KHz
Low Pass Frequency Switch	60 / 90 Hz
Equalization Range	12dB
Input Impedance	10K Ohms
Max Output Voltage	9V RMS
Dimensions (mm)	183 x 27 x 107



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