



FreeSpace® DXA 2120 Digital Mixer/Amplifier

Installation and Operation Guide
Guía de instalación y funcionamiento
Guide d'installation et d'utilisation
Installations- und Bedienungsanleitung
Manuale di installazione e funzionamento
Installatie- en bedieningshandleiding

Please read this owner's guide and save it for future reference.

This product is intended for installation by professional installers only! This document is intended to provide professional installers with basic installation and safety guidelines for this product in typical fixed-installation systems. Please read this document before attempting installation.



WARNINGS:

- All Bose products must be used in accordance with local, state, federal and industry regulations. It is the installer's responsibility to ensure installation of the product is performed in accordance with all applicable codes, including local building codes and regulations. Consult the local authority having jurisdiction before installing this product.



- To reduce the risk of fire or electrical shock, do not expose the product to rain or moisture.
- Do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids such as vases, on or near the apparatus. Exposure to liquid may create a fire hazard.

- Do not place any naked flame sources, such as lighted candles, on or near the apparatus.

- This product is not intended for installation or use in indoor water facility areas (including, without limitation, indoor pools, indoor water parks, hot tub rooms, saunas, steam rooms and indoor skating rinks).



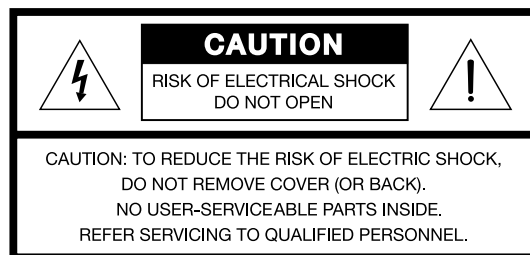
- Contains small parts which may be a choking hazard. Not suitable for children under age 3.

CAUTIONS:

- This product shall be connected to an AC mains socket outlet with a protective earthing (grounding) connection. Caution: Do not mount the chassis in locations where condensation may occur.

- Do not make unauthorized alterations to this product; doing so may compromise safety, regulatory compliance, system performance, and may void the warranty.

- Only use the mounting hardware recommended by the rack manufacturer.



This symbol means there is uninsulated, dangerous voltage within the product enclosure that may constitute a risk of electrical shock.



This symbol means there are important operating and maintenance instructions in this guide.

NOTES:

- The product label is located on the bottom of the product.
- Where the mains plug or appliance coupler is used as the disconnect device, such disconnect device shall remain readily operable.
- This product is not designed or tested to be powered or charged by a power inverter.
- This product is not designed or tested for use in vehicles or boats.

For Japan:

Note: Provide an earth connection before the main plug is connected to the mains.

For Denmark, Finland, Norway, and Sweden:


English: The device must be connected to an outlet with a protective earth connection.


Danish: Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.

Finnish: Laitte on liitettävä suojavaadoituskoskettimilla varustettuun pistorasiaan.

Norwegian: Apparatet må tilkoples jordet stikkontakt.

Swedish: Apparaten skall anslutas till jordat uttag.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wider blade or third prong is provided for your safety. If the provided plug does not fit in your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time to prevent damage to this product.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way such as power-supply cord or plug is damaged; liquid has been spilled or objects have fallen into the apparatus; the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. To prevent risk of fire or electric shock, avoid overloading wall outlets, extension cords, or integral convenience receptacles.
16. Do not let objects or liquids enter the product.
17. See product enclosure for safety related markings.
18. No naked flame sources, such as lighted candles, should be placed on apparatus.

 This product conforms to all applicable EU directive requirements. The complete Declaration of Conformity can be found at www.Bose.com/compliance.

Information About Products That Generate Electrical Noise (FCC Compliance Notice for US)

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at one's own expense.

This product complies with the Canadian ICES-003 Class A specifications.
CAN ICES-3(A)/NMB-3(A)

For China:



仅适用于海拔 2000m 以下地区安全使用
Only suitable for use at areas with altitude less than 2000 m.



仅适用于非热带气候条件下安全使用
Only suitable for use at non-tropic climate areas.

Lea esta guía del usuario y consérvela para consultarla en el futuro.

Este producto está diseñado para ser instalado únicamente por instaladores profesionales. Este documento está diseñado para proveer las pautas de seguridad e instalación básicas a los instaladores profesionales de este producto en sistemas de instalación fija comunes. Lea este documento antes de comenzar con su instalación.

ADVERTENCIA:



- Todos los productos Bose deben instalarse conforme a las leyes locales, estatales, federales y del sector. Es responsabilidad del instalador asegurarse de que la instalación del producto se realice conforme a las normas legales correspondientes, incluidas las normas de construcción locales. Consulte a la autoridad local competente antes de instalar este producto.



- Para reducir el riesgo de incendio o descarga eléctrica, no exponga este producto a la lluvia o la humedad.
- No exponga el aparato a goteos o salpicaduras y no coloque encima ni cerca del aparato objetos llenos de líquido; por ejemplo, floreros. La exposición a líquidos podría generar el riesgo de incendio.



- No coloque sobre el producto, o en su proximidad, fuentes de llamas sin protección; por ejemplo, velas encendidas.
- Este producto no está diseñado para ser instalado o utilizado en zonas de instalaciones de agua (incluidos, sin limitarse a, piscinas techadas, parques acuáticos techados, jacuzzis, saunas, salas de vapor y pistas de patinaje techadas).

Contiene piezas pequeñas que pueden suponer riesgo de asfixia. No adecuado para niños de menos de 3 años.

PRECAUCIÓN:

- Este producto deberá conectarse a una toma de corriente de CA con una conexión a tierra que sirva de protección.
- No realice alteraciones no autorizadas a este producto; esto podría comprometer la seguridad, el cumplimiento de las normas y el rendimiento del sistema, y podría anular la garantía.
- Utilice únicamente las herramientas de montaje que recomienda el fabricante del rack.




Este símbolo indica que dentro de la carcasa del producto hay voltaje peligroso y no aislado, que podría significar un riesgo de descarga eléctrica.




Este símbolo indica que en esta guía se incluyen instrucciones de mantenimiento y funcionamiento importantes.

NOTAS:

- La etiqueta del producto se encuentra en la parte inferior.
- Si se utiliza la clavija de conexión de red eléctrica o el acoplador del artefacto como el dispositivo de desconexión, dicho dispositivo de desconexión deberá permanecer listo para funcionar.
- Este producto no está diseñado ni probado para recibir alimentación o carga de un inversor.
- Este producto no está diseñado ni probado para utilizarse en embarcaciones o vehículos.

1. Lea estas instrucciones.
2. Guarde estas instrucciones.
3. Preste atención a las advertencias.
4. Siga todas las instrucciones.
5. No use este aparato cerca del agua.
6. Límpielo solamente con un paño seco.
7. No obstruya ninguna abertura de ventilación. Realice la instalación conforme a las instrucciones del fabricante.
8. No lo instale cerca de ninguna fuente de calor, como radiadores, rejillas de calefacción, estufas u otros aparatos (incluidos los amplificadores) que produzcan calor.
9. No anule el propósito de seguridad del enchufe con conexión a tierra o polarizado. Un enchufe polarizado tiene dos hojas, una más ancha que la otra. Un enchufe con conexión a tierra tiene dos clavijas planas y un tercer conector a tierra. La clavija plana más ancha o el tercer conector son para su seguridad. Si el enchufe suministrado no encaja en la toma de corriente, consulte con un electricista para cambiar la toma de corriente obsoleta.
10. Proteja el cable de alimentación para que nadie lo pise o lo perforo, especialmente en enchufes, receptáculos de tomas múltiples y en el punto donde salen del dispositivo.
11. Use solamente los accesorios especificados por el fabricante.
12.  Use solamente con el carro, el soporte de piso, el trípode, el soporte o la mesa especificado por el fabricante, o vendido con el dispositivo. Cuando se usa un carro, tenga precaución al moverlo con el dispositivo para evitar lesiones por tropiezos.
13. Desenchufe este aparato durante tormentas eléctricas o cuando no lo utilice durante períodos prolongados.
14. Derive todas las tareas de mantenimiento a personal calificado. Se requieren tareas de mantenimiento si el aparato se daña de alguna manera; por ejemplo, si se daña el enchufe o el cable de alimentación, si se derrama líquido o si caen objetos dentro del aparato, si el aparato se expone a la lluvia o la humedad, si no funciona normalmente; o bien, si se cae.
15. Para evitar riesgos de incendio o descarga eléctrica, evite sobrecargar las tomas de corriente, las extensiones eléctricas o los receptáculos integrales de tomas múltiples.
16. No permita que entren objetos ni líquidos en el producto.
17. Revise las marcas de seguridad en la carcasa del producto.
18. No se deben colocar fuentes de llamas expuestas, tales como velas encendidas, encima del aparato.

 Este producto cumple los requisitos de todas las Directivas de la UE aplicables legalmente. Encontrará la declaración de conformidad completa en www.Bose.com/compliance.

Información sobre productos que generan ruido eléctrico (Nota de homologación FCC para EE UU)

Nota: Este equipo se ha probado y ha demostrado que cumple con los límites para dispositivos digitales de clase B, de acuerdo con el apartado 15 de las normas de la FCC. Estos límites están diseñados para ofrecer una protección razonable contra las interferencias perjudiciales cuando el aparato se utiliza en un entorno comercial. Este equipo genera, utiliza y puede irradiar energía de radiofrecuencia y, si no se instala y se utiliza de acuerdo con el manual de instrucciones, podría ocasionar interferencias perjudiciales para las comunicaciones por radio. La utilización de este equipo en una zona residencial podría causar interferencias dañinas. En ese caso, la corrección de la interferencia correrá a cargo del usuario.

Este producto cumple las especificaciones canadienses para dispositivos de clase A ICES-003.
CAN ICES-3(A)/NMB-3(A)

Consultez attentivement cette notice d'utilisation et conservez-la pour toute référence future.

L'installation de ce produit doit être effectuée par un technicien professionnel ! Ce document à l'intention des installateurs professionnels contient les directives de pose et de sécurité relatives à ce produit en installation fixe. Lisez attentivement ce document avant l'installation.

AVERTISSEMENTS:



- Tous les produits Bose doivent être installés dans le respect des réglementations locales et nationales. L'installateur est responsable du respect de tous les codes et règlements locaux et nationaux en vigueur applicables à l'installation du produit. Consultez les autorités locales compétentes avant d'installer ce produit.



- Pour limiter les risques d'incendie ou d'électrocution, n'exposez pas l'appareil à la pluie ou à l'humidité.
- Protégez l'appareil de tout risque de ruissellement ou d'éclaboussure. Ne placez pas d'objets contenant des liquides, tels que des vases, sur l'appareil. L'exposition aux liquides peut induire un risque d'incendie.

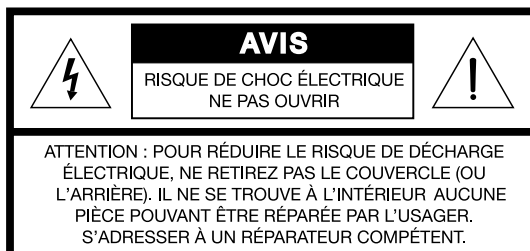


- Ne placez jamais d'objets enflammés, tels que des bougies allumées, sur l'appareil.
- Ce produit n'est pas destiné à être monté ou utilisé dans des installations humides en intérieur (par exemple piscine intérieure, parc aquatique intérieur, baignoire à remous, sauna, hammam, patinoire intérieure, etc.).

Certaines pièces présentent un risque de suffocation. Ne pas laisser à la portée des enfants de moins de 3 ans.

ATTENTION:

- Cet appareil doit être raccordé à une prise secteur dotée d'une protection par mise à la terre.
- Toute modification non autorisée peut compromettre votre sécurité, le respect des réglementations et le bon fonctionnement de l'appareil, et en invalidera la garantie.
- Utilisez exclusivement le matériel de montage en rack recommandé par le fabricant.




Ce symbole indique la présence d'une tension électrique dangereuse non isolée à l'intérieur de l'appareil, susceptible d'induire un risque de choc électrique.



Ce symbole signale la présence d'instructions importantes relatives au fonctionnement et à l'entretien de l'appareil dans ce guide.

REMARQUE:

- L'étiquette d'identification du produit est située au-dessous de l'appareil.
- Lorsque la fiche d'alimentation ou la prise multiple est utilisée comme dispositif de débranchement de l'appareil, elle doit rester facilement accessible.
- Ce produit n'a pas été conçu ou testé pour être alimenté ou chargé au moyen d'un onduleur.
- Ce produit n'a pas été conçu ou testé pour être utilisé dans des véhicules ou des bateaux.

1. Veuillez lire ces instructions.
2. Veuillez conserver ces instructions.
3. Respectez tous les avertissements.
4. Suivez toutes les instructions.
5. N'utilisez pas cet appareil à proximité d'eau ou d'une source d'humidité.
6. Utilisez uniquement un chiffon sec pour le nettoyage.
7. Ne bloquez jamais les orifices d'aération. Suivez les instructions du fabricant pour l'installation.
8. N'installez pas cet appareil à proximité d'une quelconque source de chaleur, telle qu'un radiateur, une arrivée d'air chaud, un four ou tout autre appareil (notamment des amplificateurs) produisant de la chaleur.
9. Veuillez à profiter de la sécurité offerte par les fiches de type terre ou polarisées. Les fiches polarisées sont équipées de deux bornes de largeurs différentes. Les fiches de type terre sont équipées de deux bornes et d'un orifice pour la mise à la terre. Ces deux types de dispositifs ont pour but d'assurer votre sécurité. Si la prise fournie ne s'adapte pas à votre prise de courant, consultez un électricien pour qu'il remplace cette prise obsolète.
10. Protégez le cordon d'alimentation contre les risques de piétinement ou de pincement, notamment au niveau des fiches, des prises de courant et des branchements à l'appareil.
11. Utilisez uniquement les accessoires spécifiés par le fabricant.
12.  Utilisez uniquement le chariot, le support, le trépied, l'équerre ou la table spécifié(e) par le fabricant ou vendu(e) avec l'appareil. Si vous utilisez un chariot, faites attention à ne pas faire basculer l'ensemble chariot/appareil.
13. Débranchez cet appareil pendant les orages ou au cours des longues périodes de non utilisation.
14. Confiez toute réparation à du personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce soit (endommagement du cordon d'alimentation ou de la fiche électrique, renversement d'un liquide ou de tout objet sur l'appareil, exposition de l'appareil à la pluie ou à l'humidité, mauvais fonctionnement, chute de l'appareil, etc.).
15. Pour éviter tout risque d'incendie ou d'électrocution, ne surchargez pas les prises murales, les rallonges ou les prises multiples.
16. Ne laissez jamais d'eau ou d'objets pénétrer à l'intérieur du produit.
17. Consultez les marquages de sécurité sous le boîtier du produit.
18. Ne placez jamais aucune source de flamme nue, comme des bougies allumées, sur l'appareil.

CE Ce produit est conforme à toutes les directives de la Communauté Européenne qui s'y appliquent. L'attestation complète de conformité est disponible à l'adresse www.Bose.com/compliance.

Informations sur les produits générateurs de bruit électrique (Notice de conformité FCC pour les USA)

Remarque : ce matériel a fait l'objet de tests prouvant sa conformité aux limites imposées aux appareils numériques de classe A, conformément à la partie 15 des réglementations de la FCC. Ces limites sont conçues pour offrir une protection raisonnable contre les interférences nuisibles lorsque l'appareil est utilisé en environnement commercial. Cet appareil génère, utilise et est susceptible d'émettre de l'énergie à certaines fréquences radio. À ce titre, s'il n'est pas installé ou utilisé conformément aux instructions, il est susceptible de perturber les communications radio. L'utilisation de cet équipement dans une zone résidentielle risque de provoquer des interférences nuisibles, auquel cas l'utilisateur devra remédier au problème à ses propres frais.

Ce produit est conforme aux spécifications de la réglementation ICES-003 pour la classe A du Canada.
CAN ICES-3(A)/NMB-3(A)

Bitte lesen Sie diese Bedienungsanleitung durch und bewahren Sie sie zum späteren Nachschlagen auf.

Dieses Produkt darf nur von fachkundigen Monteuren installiert werden! Dieses Dokument soll fachkundigen Monteuren grundlegende Installations- und Sicherheitsrichtlinien für dieses Produkt in typischen Festinstallationssystemen bieten. Bitte lesen Sie dieses Dokument vor der Installation durch.

WARNUNG:



- Alle Produkte von Bose müssen gemäß den örtlichen und staatlichen Vorschriften sowie gemäß allen Branchenbestimmungen verwendet werden. Der Monteur ist dafür verantwortlich, sicherzustellen, dass die Installation des Produkts gemäß allen geltenden Vorschriften durchgeführt wird, einschließlich örtlicher Bauvorschriften und Bestimmungen. Wenden Sie sich vor der Installation dieses Produkts an die zuständige Abnahmebehörde.



- Um Brände und Stromschläge zu vermeiden, darf dieses Produkt weder Regen noch Feuchtigkeit ausgesetzt werden.
- Schützen Sie das Gerät vor tropfenden oder spritzenden Flüssigkeiten, und stellen Sie keine mit Flüssigkeiten gefüllten Gefäße (z. B. Vasen) auf das Gerät oder in die Nähe des Geräts. Durch den Kontakt mit Flüssigkeiten entsteht ggf. Brandgefahr.

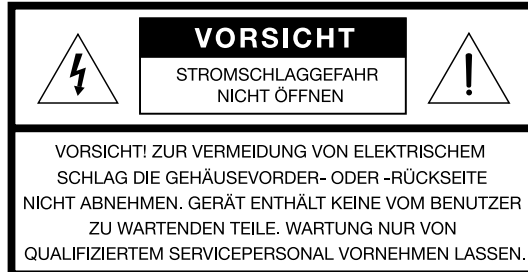


- Stellen Sie keine brennenden Kerzen oder ähnliches auf das Gerät oder in die Nähe des Geräts.
- Dieses Produkt ist nicht für die Installation oder Verwendung in Innenbereichen mit Wassereinrichtungen (zum Beispiel Schwimmbädern, Wasserparks, Räume mit Whirlpools, Saunas, Dampfbäder und Eislaufbahnen) gedacht.

Enthält kleine Teile, die verschluckt werden können und eine Erstickungsgefahr darstellen. Nicht geeignet für Kinder unter drei Jahren.

ACHTUNG:

- Dieses Produkt muss an eine 230-V-Wechselstrom-Steckdose mit Erdungsschutz angeschlossen werden.
- Keine nicht autorisierten Veränderungen am Produkt vornehmen. Diese können die Sicherheit, die Einhaltung von Richtlinien und die Systemleistung beeinträchtigen. In diesem Fall kann die Garantie ungültig werden.
- Verwenden Sie nur die vom Rack-Hersteller empfohlenen Montagehilfsmittel.




Dieser Warnhinweis warnt vor nicht isolierten gefährlichen Spannungsquellen im Inneren des Produktes, die ein Stromschlagrisiko darstellen können.




Dieser Warnhinweis weist auf wichtige Bedien- und Wartungsinformationen in dieser Anleitung hin.

HINWELS:

- Das Etikett mit der Produktbezeichnung befindet sich auf der Unterseite des Geräts.
- Falls Sie den Netzstecker oder eine Mehrfachsteckdose verwenden, um das Gerät von der Stromversorgung zu trennen, sollten Sie sicherstellen, dass Sie jederzeit auf den Stecker zugreifen können.
- Das Produkt wurde nicht für den Betrieb oder das Aufladen mit einem Wechselrichter entwickelt oder getestet.
- Das Produkt wurde nicht für den Betrieb in Fahrzeugen oder Booten entwickelt oder getestet.

1. Lesen Sie die folgenden Anweisungen.
2. Bewahren Sie die Anweisungen auf.
3. Beachten Sie alle Warn- und Sicherheitshinweise.
4. Befolgen Sie alle Anweisungen.
5. Verwenden Sie dieses Gerät nicht in der Nähe von Wasser.
6. Reinigen Sie das Gerät nur mit einem sauberen, trockenen Tuch.
7. Achten Sie darauf, dass die Lüftungsöffnungen nicht blockiert sind. Stellen Sie das Gerät nur in Übereinstimmung mit den Herstelleranweisungen auf.
8. Stellen Sie das Gerät nicht in der Nähe von Wärmequellen auf, wie Heizkörpern, Wärmespeichern, Öfen oder anderen Geräten(auch Verstärkern), die Wärme erzeugen.
9. Achten Sie darauf, dass die Schutzfunktion des Schutzkontaktsteckers nicht beeinträchtigt wird. Ein gepolter Stecker hat zwei Stromkontakte, von denen einer breiter als der andere ist. Ein Schutzkontaktstecker hat zwei Stromkontakte und einen dritten Erdungskontakt. Der breite bzw. dritte Kontakt dient Ihrer Sicherheit. Falls der mitgelieferte Stecker nicht in Ihre Steckdose passt, wenden Sie sich an einen qualifizierten Elektriker, um die Steckdose auszutauschen.
10. Verlegen Sie das Netzkabel so, dass es keine Stolpergefahr darstellt und nicht beschädigt werden kann – insbesondere im Bereich von Steckern und Steckdosen und dort, wo das Netzkabel aus dem Gerät herausgeführt wird.
11. Verwenden Sie nur Zubehör-/Anbauteile, die vom Hersteller zugelassen sind.
12.  Verwenden Sie für das Gerät nur Rollwagen, Ständer, Dreibeine, Halterungen oder Tische, die vom Hersteller zugelassen sind oder zusammen mit dem Gerät verkauft werden. Falls Sie einen Rollwagen verwenden, dürfen Sie die Einheit Gerät/Rollwagen nur mit Vorsicht bewegen, damit Verletzungen beim möglichen Umkippen ausgeschlossen sind.
13. Ziehen Sie das Netzkabel bei Gewitter oder bei längerer Nichtbenutzung des Gerätes aus der Steckdose.
14. Alle Reparatur- und Wartungsarbeiten nur von qualifiziertem Kundendienstpersonal durchführen lassen. Wartungsarbeiten sind in folgenden Fällen nötig: Bei jeglichen Beschädigungen wie z. B. des Netzkabels oder Netzsteckers, wenn Flüssigkeiten oder Gegenstände in das Gehäuse gelangt sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, fallen gelassen wurde oder nicht ordnungsgemäß funktioniert.
15. Vermeiden Sie Gefahren von Bränden oder elektrischen Schlägen, indem Sie Steckdosen, Verlängerungskabel und integrierte Gerätesteckdosen nicht überlasten.
16. Lassen Sie keine Flüssigkeiten oder Fremdkörper in das Gerät gelangen.
17. Beachten Sie die Sicherheitshinweise auf der Geräterückseite.
18. Stellen Sie keine offenen Flammen, wie zum Beispiel brennende Kerzen auf das Gerät.

 Dieses Produkt erfüllt alle vorgeschriebenen EU-Richtlinien. Die vollständige Konformitätserklärung ist einsehbar unter www.Bose.com/compliance.

Informationen über Produkte, die elektrisches Rauschen verursachen (Hinweis zur FCC-Einhaltung für die USA)

Hinweis: Dieses Gerät wurde geprüft. Es stimmt mit den Regelungen für Geräte der Klasse A gemäß Teil 15 der FCC-Vorschriften überein. Diese Grenzwerte sollen einen angemessenen Schutz gegen elektromagnetische Störungen beim Betrieb in gewerblicher Umgebung gewährleisten. Dieses Gerät erzeugt und verwendet Hochfrequenzstrahlung und kann sie auch aussenden. Daher verursacht das Gerät, wenn die Installation und Benutzung nicht in Übereinstimmung mit dieser Bedienungsanleitung erfolgt, möglicherweise Störungen des Funkverkehrs. Beim Betrieb dieses Geräts in Wohngebieten können erhebliche Störungen des Funkverkehrs verursacht werden. Eventuell daraus entstehende Kosten trägt allein der Benutzer des Geräts.

Dieses Produkt erfüllt die kanadische Richtlinie ICES-003, Klasse A.
CAN ICES-3(A)/NMB-3(A)

Leggere questo manuale d'uso e conservarlo come riferimento per il futuro.

Questo prodotto deve essere installato esclusivamente da installatori professionisti. Il presente documento ha lo scopo di fornire agli installatori professionisti le istruzioni di base per l'installazione e la sicurezza de prodotto negli impianti convenzionali a installazione fissa. Leggere attentamente il documento prima di procedere all'installazione.

AVVERTENZA:



- Tutti i prodotti Bose devono essere installati in conformità con gli standard locali, statali, federali e di settore. È responsabilità dell'installatore assicurare che l'installazione del prodotto sia eseguita in conformità con tutte le normative vigenti, compresi i regolamenti edilizi locali. Prima di installare il prodotto, chiedere informazioni all'autorità locale preposta.



- Per ridurre il rischio di incendio o scosse elettriche, il prodotto non deve essere esposto a pioggia o umidità.



- Non esporre l'apparecchio a gocce o schizzi, e non porre oggetti contenenti liquidi quali vasi sopra o in prossimità dell'apparecchio. L'esposizione ai liquidi può provocare il rischio di incendi.



- Non collocare sorgenti di fiamme libere (ad esempio, candele accese) sull'apparecchio o in prossimità di esso.
- Il prodotto non deve essere installato o utilizzato in aree di servizio o intrattenimento vicine all'acqua (ad esempio, piscine coperte, parchi acquatici al chiuso, sale con vasche riscaldate, saune, bagni turchi e piste di pattinaggio al chiuso).

Contiene pezzi di piccole dimensioni che possono rappresentare un pericolo di soffocamento. Non adatto per bambini di età inferiore ai 3 anni.

ATTENZIONE:

- Questo prodotto deve essere collegato a una presa di corrente alternata dotata di un impianto protettivo di messa a terra.
- Eventuali modifiche non autorizzate possono compromettere la sicurezza, la conformità alle normative e le prestazioni del sistema, e quindi invalidare la garanzia.
- Utilizzare esclusivamente l'hardware di montaggio raccomandato dal produttore dell'unità rack.




Questo simbolo segnala la presenza di tensione non isolata e pericolosa all'interno dell'involucro del prodotto, con il rischio di scossa elettrica.



Questo simbolo segnala le istruzioni importanti dal punto di vista del funzionamento e della manutenzione all'interno della guida.

NOTAS:

- L'etichetta identificativa è situata sul fondo del prodotto.
- La spina dell'alimentazione o dell'accoppiatore deve essere raggiungibile facilmente e rapidamente se è utilizzata come dispositivo di spegnimento.
- Il prodotto non è progettato o testato per l'alimentazione o la ricarica mediante convertitore di corrente.
- Il prodotto non è progettato o testato per l'utilizzo su veicoli o natanti.

1. Leggere queste istruzioni.
2. Conservare queste istruzioni.
3. Prestare attenzione a tutte le avvertenze.
4. Seguire tutte le istruzioni.
5. Non utilizzare l'apparecchio in prossimità di acqua.
6. Utilizzare solo un panno asciutto per la pulizia.
7. Non ostruire le aperture di ventilazione. Installare il prodotto in conformità con le istruzioni fornite dal produttore.
8. Non installare i diffusori in prossimità di fonti di calore, quali termosifoni, radiatori, stufe o altri apparecchi (compresi gli amplificatori) che generano calore.
9. Non escludere l'obiettivo di sicurezza della spina polarizzata o con messa a terra. Una spina polarizzata è dotata di due poli, uno più largo dell'altro. Una spina con messa a terra è dotata di due poli e di un terzo terminale di massa. Il polo largo o il terzo terminale sono presenti per sicurezza. Se la spina in dotazione non è adatta alla presa, rivolgersi a un elettricista per la sostituzione della presa obsoleta.
10. Fare in modo che il cavo di alimentazione non venga calpestato o schiacciato, soprattutto in corrispondenza di spine, prese e nel punto di uscita dall'apparecchio.
11. Utilizzare solo sistemi di aggancio/accessori specificati dal produttore.
12.  Utilizzare solo carrelli, supporti, treppiedi, staffe o tavoli specificati dal produttore o venduti insieme all'apparato. Quando si utilizza un carrello, prestare attenzione durante lo spostamento dell'insieme carrello/apparecchio per evitare di rovesciarlo causando danni.
13. Scollegare l'apparecchio durante i temporali o quando rimane inutilizzato a lungo.
14. Affidarsi a personale qualificato per tutti gli interventi di assistenza. Gli interventi di assistenza si rendono necessari quando l'apparato ha subito danni di qualsiasi tipo, ad esempio se il cavo di alimentazione o la spina sono danneggiati, se è stato versato del liquido o sono caduti oggetti sull'apparato, se l'apparato è stato esposto a pioggia o umidità, se non funziona normalmente o è caduto.
15. Per prevenire il rischio di incendi o scosse elettriche, non sovraccaricare le prese elettriche, le prolunghe o le prese multiservizio.
16. Non lasciar penetrare oggetti o liquidi nel prodotto.
17. Fare riferimento alle indicazioni relative alla sicurezza presenti sull'involucro.
18. Non collocare sull'apparecchio candele accese o altre sorgenti di fiamme libere.

CE Questo prodotto è conforme a tutte le direttive EU prescritte dalla legge. La dichiarazione di conformità completa è disponibile all'indirizzo www.Bose.com/compliance.

Informazioni sui prodotti che generano interferenze elettriche (avviso di conformità FCC per gli Stati Uniti)

Nota: Questa apparecchiatura è stata sottoposta a collaudo ed è risultata conforme ai limiti relativi ai dispositivi digitali di Classe A previsti dalla parte 15 delle norme FCC. Tali limiti sono stati fissati allo scopo di assicurare un'adeguata protezione dalle interferenze dannose quando l'apparecchiatura è utilizzata in un'installazione commerciale. Questa apparecchiatura genera, utilizza e può irradiare energia a radiofrequenza e, se non installata e utilizzata in conformità con il manuale di istruzioni, può interferire negativamente con le comunicazioni radiofoniche. L'utilizzo di questa apparecchiatura in un'area residenziale può provocare interferenze dannose, nel qual caso l'utente dovrà adottare misure correttive a proprie spese.

Questo prodotto è conforme alle specifiche canadesi ICES-003 per i prodotti di Classe A.
CAN ICES-3(A)/NMB-3(A)

Lees deze gebruikershandleiding zorgvuldig door en bewaar deze voor toekomstig gebruik.

Dit product is uitsluitend bestemd voor installatie door professionele installateurs! Dit document is bedoeld om professionele installateurs essentiële installatie- en veiligheidsrichtlijnen te bieden voor dit product in standaardssystemen voor vaste installatie. Lees dit document door voordat u begint met de installatie.

WAARSCHUWINGEN:

- Alle Bose-producten moeten worden geïnstalleerd volgens de plaatselijke en landelijke voorschriften en industriënormen. Het is de verantwoordelijkheid van de installateur om ervoor te zorgen dat de installatie van het product wordt uitgevoerd volgens alle van toepassing zijnde voorschriften, inclusief plaatselijke bouwvoorschriften. Neem contact op met de juiste plaatselijke overheidsinstanties voordat u dit product installeert.



- Stel het apparaat niet bloot aan regen of vocht, om het risico van brand of elektrische schokken te verlagen.
- Stel dit apparaat niet bloot aan druipende of spattende vloeistoffen en plaats geen met vloeistoffen gevulde voorwerpen, zoals vazen, op of bij het apparaat. Blootstelling aan vloeistoffen kan leiden tot brandgevaar.
- Plaats geen open vlam, zoals een brandende kaars, op of bij het product.



- Dit product is niet bedoeld voor installatie of gebruik in overdekte ruimten voor wateractiviteiten (waaronder overdekte zwembaden, overdekte waterparken, stoomruimten, sauna's, bubbelbadkamers en overdekte ijsbanen).

Bevat kleine onderdelen die een verstikkingsgevaar kunnen vormen. Niet geschikt voor kinderen jonger dan 3 jaar.

WAARSCHUWINGEN:

- Dit product moet worden aangesloten op een geaard AC-stopcontact.
- Er mogen geen wijzigingen aan het product worden aangebracht door onbevoegden. Dergelijke wijzigingen kunnen de veiligheid, de naleving van voorschriften en de werking van het systeem in gevaar brengen en kunnen ertoe leiden dat de garantie vervalt.
- Gebruik uitsluitend het door de fabrikant aanbevolen montage materiaal.



Dit symbool duidt op gevaarlijke niet-geïsoleerde spanning in de behuizing van het product die tot elektrische schokken kan leiden.




Dit symbool geeft aan dat deze handleiding belangrijke gebruiks- en onderhoudsinstructies bevat.

OPMERKINGEN:

- Het productlabel bevindt zich aan de onderkant van het product.
- Wanneer de netstekker of aansluiting van een apparaat als stroomonderbreker wordt gebruikt, dient deze stroomonderbreker steeds goed bereikbaar te zijn.
- Dit product is niet ontworpen voor of getest op gebruik met een omvormer voor voeding of opladen.
- Dit product is niet ontworpen voor of getest op gebruik in voertuigen of vaartuigen.

1. Lees deze instructies door.
2. Bewaar deze instructies.
3. Neem alle waarschuwingen in acht.
4. Volg alle instructies.
5. Gebruik dit apparaat niet in de buurt van water.
6. Alleen met een droge doek reinigen.
7. Zorg dat u de ventilatieopeningen niet blokkeert. Installeer het apparaat volgens de instructies van de fabrikant.
8. Installeer het product niet in de buurt van warmtebronnen, zoals radiatoren, warmteroosters, kachels of andere apparaten (waaronder versterkers) die warmte produceren.
9. Schakel de functie van de gepolariseerde of geaarde stekker niet uit. Een gepolariseerde stekker heeft twee poten, waarvan de ene breder is dan de andere. Een geaarde stekker heeft twee poten en een pin voor de aarding. De brede poot of de derde poot is bedoeld voor uw veiligheid. Als de bijgeleverde stekker niet in het stopcontact past, neem dan contact op met een electricien om het verouderde stopcontact te vervangen.
10. Zorg dat er niet op het netsnoer wordt gestaan of gelopen en dat het niet wordt afgeknelld, met name bij de stekkers en stopcontacten en het punt waar deze uit het apparaat komen.
11. Gebruik uitsluitend aansluitstukken/accessoires die door de fabrikant worden gespecificeerd.
12.  Gebruik het product uitsluitend in combinatie met het verrijdbare plateau, het statief, de beugel of de tafel die door de fabrikant worden vermeld of samen met het apparaat worden verkocht. Als u een verrijdbaar plateau gebruikt, moet u het apparaat en het plateau voorzichtig verplaatsen zodat deze niet kunnen omvallen en letsel veroorzaken.
13. Haal de stekker van dit apparaat uit het stopcontact bij onweer of als het langere tijd niet wordt gebruikt.
14. Laat alle reparaties en onderhoud over aan bevoegde servicemedewerkers. Onderhoud is vereist als het apparaat is beschadigd. Dit is bijvoorbeeld het geval als het netsnoer of de stekker is beschadigd, als er vloeistof is gemorst of voorwerpen in het apparaat zijn gevallen, als het apparaat is blootgesteld aan regen of vocht, niet normaal werkt of is gevallen.
15. Om het risico van brand of elektrische schokken te voorkomen, dient u overbelasting van wandstopcontacten, verlengsnoeren of ingebouwde stopcontacten te voorkomen.
16. Zorg dat er geen voorwerpen of vloeistoffen in het product komen.
17. Zie de behuizing van het product voor veiligheidswaarschuwingen.
18. Er mogen geen open vlammen, zoals brandende kaarsen, op de apparatuur worden geplaatst.

 Dit product voldoet aan alle vereisten van de EU-richtlijnen, zoals wettelijk vereist. De volledige conformiteitsverklaring kunt u vinden op www.Bose.com/compliance.

Informatie over producten die elektrische ruis genereren (FCC Compliance Notice voor de VS)

Opmerking: Dit apparaat is getest waarbij is vastgesteld dat het voldoet aan de limieten voor een digitaal apparaat van klasse A, volgens deel 15 van de FCC-voorschriften. Deze limieten zijn bedoeld om redelijke bescherming te bieden tegen schadelijke storing bij installatie in een handelsomgeving. Dit apparaat genereert en gebruikt radiofrequente energie en kan deze uitstralen en het kan, als het niet geïnstalleerd en gebruikt wordt volgens de instructies, schadelijke storing veroorzaken aan radiocommunicatie. Gebruik van dit apparaat in een woonwijk kan schadelijke storing veroorzaken. In dit geval is de gebruiker verplicht op eigen kosten de storing te verhelpen.

Dit product voldoet aan de specificaties van de Canadese ICES-003 klasse A.
CAN ICES-3(A)/NMB-3(A)

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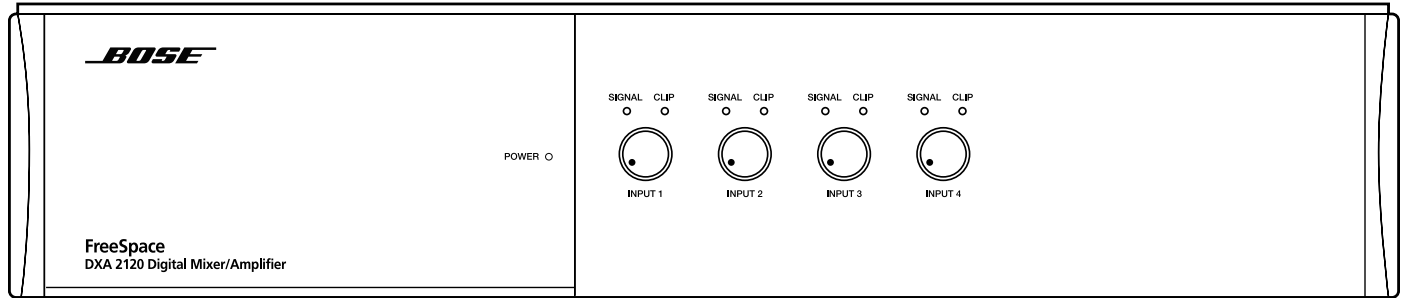
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Figure 1. The Bose® FreeSpace® DXA 2120 Digital Mixer/Amplifier



Product Overview

The Bose® FreeSpace® DXA 2120 Digital Mixer/Amplifier integrates digital signal processing with two powered output channels. Designed as a mixer or router for business music applications, it features an LCD panel and controls behind the front cover for easy access.

The mixer/amplifier provides six inputs, including four Mic/Line inputs, one Page input, and one Direct input. The Direct input overrides all sources playing on the output channels. Each Mic/Line input provides both RCA and Euroblock jacks.

Two output channels are wired for 120 watts at 4 ohms each. For 70/100 volt applications, a jumper is required for proper configuration. In 70/100V applications, the two outputs will operate at 100 watts per channel. A third output is available for an auxiliary line out.

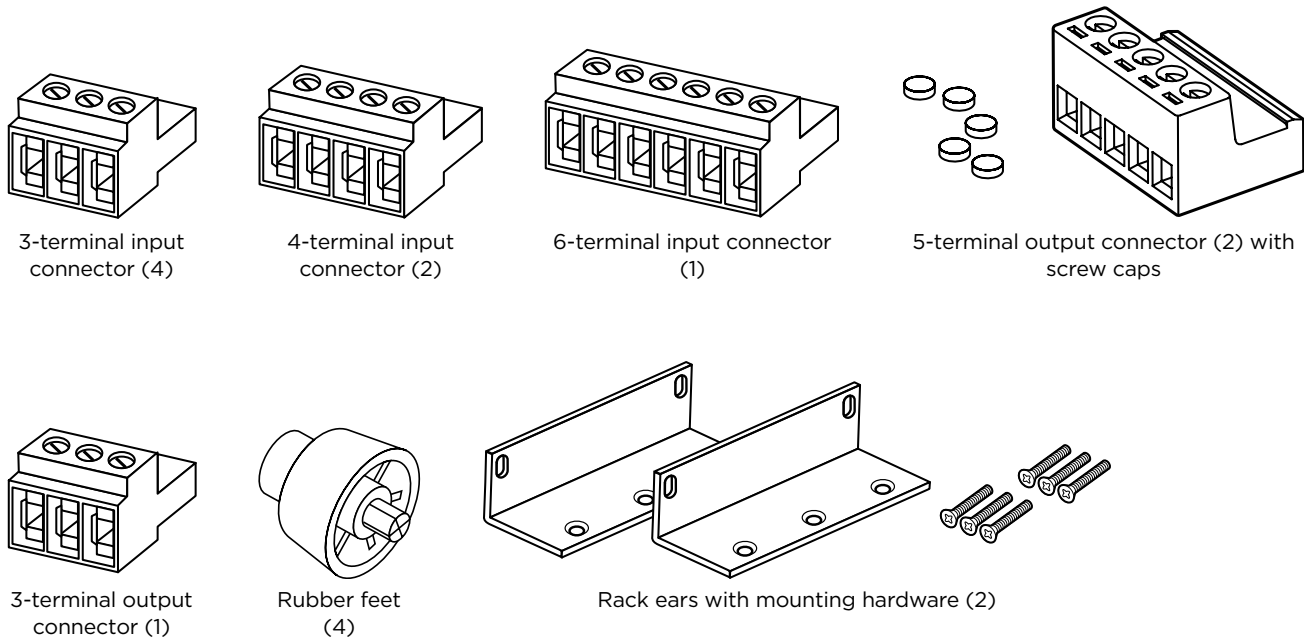
Product Features

- **Signal Mixing**
In Mixer Mode, simultaneously combines up to four inputs for any of the three inputs.
- **Signal Rounding**
In Dual Mono Select Mode, one or two inputs go to each of two outputs in different zones and can be remotely selected. In Stereo Select Mode, two stereo sources go to one output zone and can be remotely selected.
- **Opti-voice® Paging**
Provides a smooth transition between music and page signals.
- **Dynamic Equalization**
Maintains tonal balance at all listening levels.
- **Bose® Loudspeaker EQs**
Provide equalization for Bose® loudspeakers.
- **AGC (Automatic Gain Control)**
When enabled, automatically compensates for low-level sources (i.e., microphone with low sensitivity).
- **Room Equalization**
Allows easy adjustment of tonal balance in each zone.
- **Communications Port**
Includes an RS-232 serial port reserved for system updates.
- **Backup Power**
Provides an input terminal for a +24V DC backup power source.

Included Accessories

Each FreeSpace® DXA 2120 Digital Mixer/Amplifier carton contains one mixer/amplifier and the following accessories:

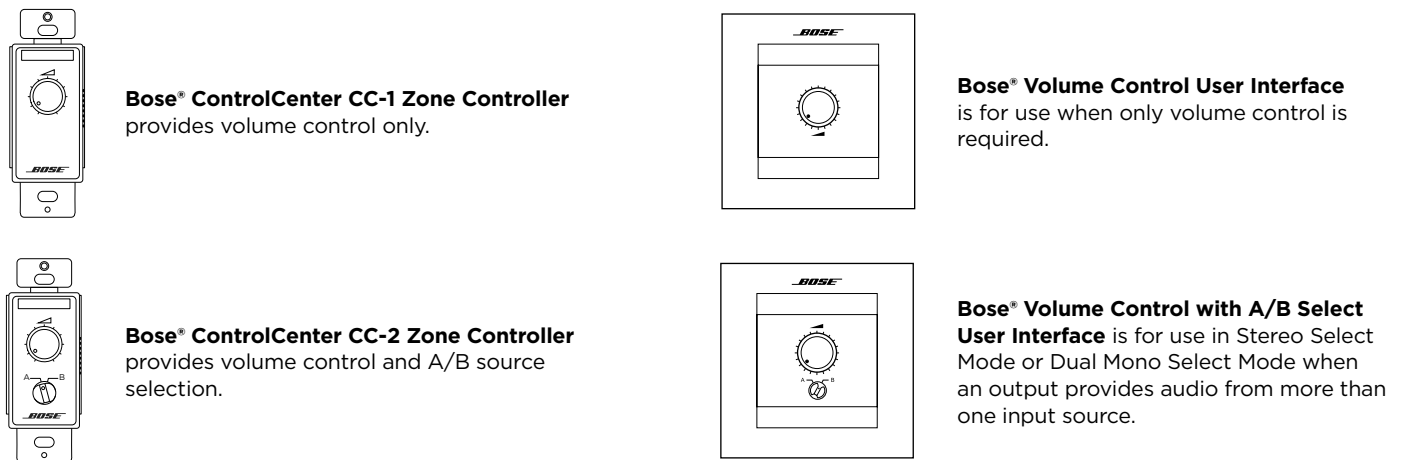
Figure 2. FreeSpace® DXA 2120 Digital Mixer/Amplifier carton contents



Additional Accessories

The following application-specific Bose® accessories are not included with the FreeSpace® DXA 2120 Digital Mixer/Amplifier:

Figure 3. Four volume controllers for use with the FreeSpace® DXA 2120 Digital Mixer/Amplifier

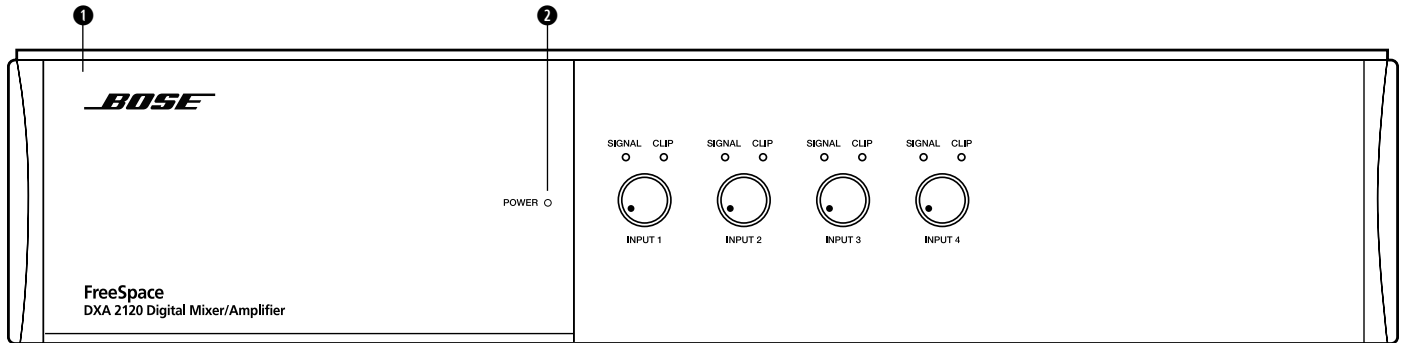


Connection of one or two user interfaces to the chassis disables the output gain knob for the output assigned to that user interface.

FreeSpace® DXA 2120 Digital Mixer/Amplifier

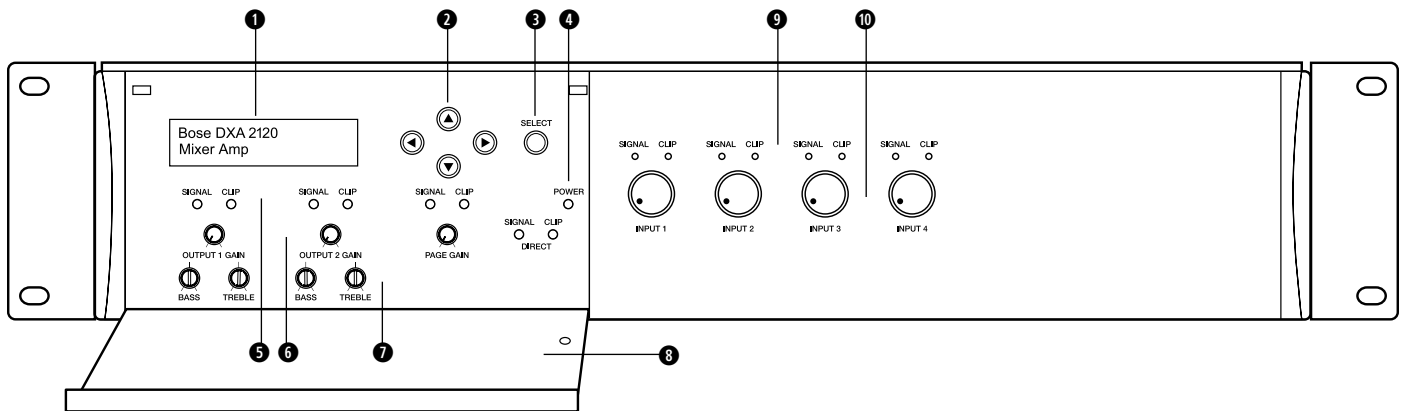
DXA 2120 Front Panel

Figure 4. FreeSpace® DXA 2120 amplifier front panel with closed compartment



- ❶ **DOOR** - Provides access to system controls.
- ❷ **POWER STATUS WINDOW** - Reveals power LED.

Figure 5. FreeSpace® DXA 2120 amplifier front panel with open compartment



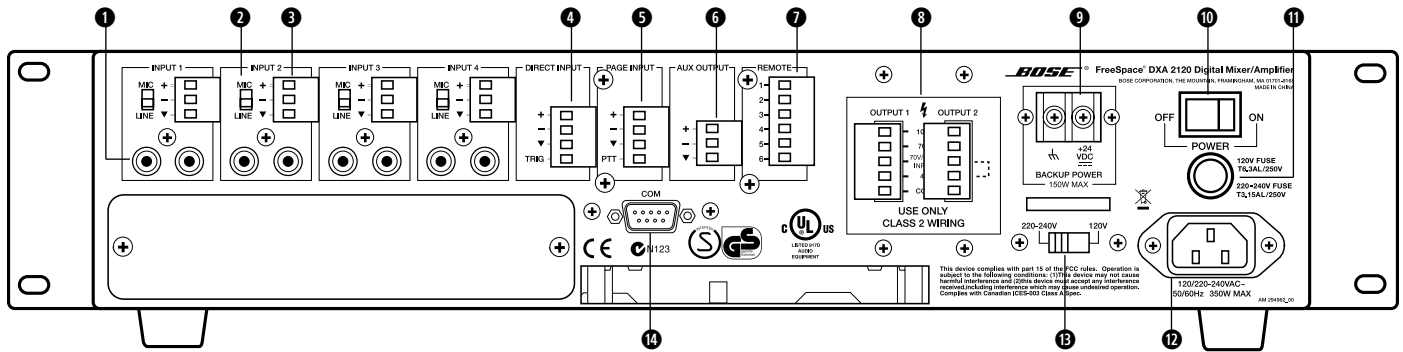
- ❶ **LCD PANEL** - Displays menu selections for configuring and viewing system settings.
- ❷ **DIRECTIONAL BUTTONS** - Navigates system menus and setting options shown on the LCD.
- ❸ **SELECT BUTTON** - Confirms selections and settings in the system menus.
- ❹ **POWER LED** - Blue light indicates the system is on. No light when unit is off.
- ❺ **SIGNAL AND CLIP LEDs** - Shows signal states for OUTPUT 1, OUTPUT 2, PAGE, and DIRECT.

Signal Unlit = No signal	Clip Unlit = No clipping
Signal Green = Signal present	Clip Red = Clipping
- ❻ **GAIN KNOBS** - Adjusts gain for OUTPUT 1, OUTPUT 2, and PAGE.
- ❼ **BASS AND TREBLE KNOBS** - Adjusts tonal balance for OUTPUT 1 and OUTPUT 2.
- ❽ **ENCLOSURE DOOR** - Conceals system controls.
- ❾ **SIGNAL AND CLIP LEDs** - Shows signal states for Inputs 1-4.

Signal Unlit = No signal	Clip Unlit = No clipping
Signal Green = Signal present	Clip Red = Clipping
- ❿ **GAIN KNOBS** - Adjusts gain for INPUT 1 - INPUT 4

DXA 2120 Rear Panel

Figure 6. FreeSpace® DXA 2120 amplifier rear panel



- ❶ **LINE INPUTS** - Two unbalanced RCA audio jacks per input (summed to mono).
- ❷ **MIC/LINE Switch** - Adjusts for the proper signal level being used with the four Euroblock input connectors. (Mic connections require using the Euroblock input jacks.)
- ❸ **MIC/LINE INPUTS** - Balanced Euroblock input jacks. One per input.
- ❹ **DIRECT INPUT** - Balanced override input jack.
- ❺ **PAGE INPUT** - Balanced audio input jack.
- ❻ **AUX OUTPUT** - Line-level signal output for other amplified equipment.
- ❼ **OUTPUTS 1 & 2** - Speaker connections for two powered outputs (70V, 100V, or 4 ohms operation).
- ❽ **REMOTE** - Input jack for volume-only control and volume control with A/B select user interfaces.
- ❾ **BACKUP POWER** - For connection to backup power source.
- ❿ **POWER OFF/ON** - AC power switch.
- ⓫ **FUSE** - 120V T6.3AL/250V or 220-240V T3.15AL/250V.
- ⓬ **AC MAINS LINE CORD JACK** - AC line voltage input.
- ⓭ **120V/220-240V Switch** - Switches between 120V and 220-240V AC input voltage. This switch is not provided on 100V AC input voltage models.
- ⓮ **COM** - RS-232 serial port is reserved for system updates.

Operation Mode Options

Before making connections, decide how you want the sound sources distributed throughout the site. This depends on whether the area is specified for one or two zones, the kind of coverage needed, and the sources to be used.

The mixer/amplifier provides three different modes of operation:

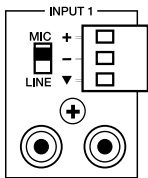
- **Mixer Mode**
In Mixer Mode, the system can mix up to four mic/line inputs to each of the two output channels for use in one or two zones.
- **Stereo Select Mode**
In Stereo Select Mode, with up to two stereo sources connected and using both output channels, the system provides stereo sound to a single output zone. Refer to “Stereo Select Mode” on page 21.
- **Dual Mono Select Mode**
In Dual Mono Select Mode, with up to two input sources connected to each of the two output channels, the system provides audio in two zones. Refer to “Dual Mono Select Mode” on page 22.

Mixer Mode

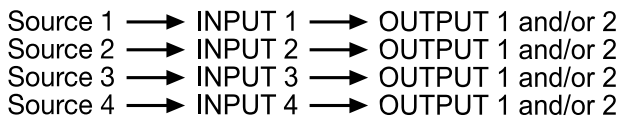
Line-level sources can be connected using the RCA jacks or Euroblock connectors. The system sums the two RCA jacks for each input to mono.

Microphones must be connected using the Euroblock connectors. Make sure the MIC/LINE switch is set to MIC.

Figure 7. MIC/LINE Switch



Mixer Mode sources can be routed to either or both outputs, as shown below.



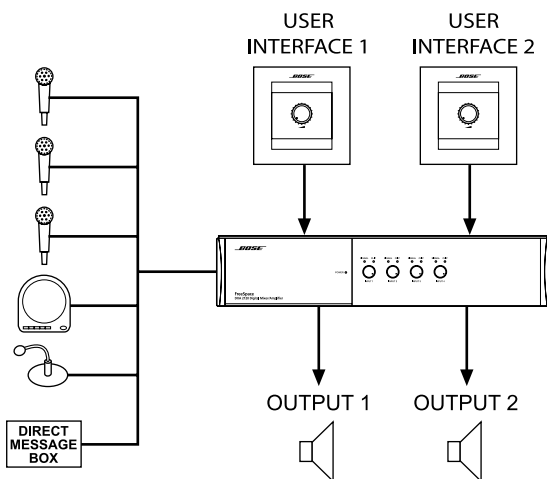
Sources can be independently routed to the auxiliary output.

In normal operation, the OUTPUT 1 and 2 gain controls are used to control the gains of OUTPUT 1 and 2, respectively. In this mode, you have the MASTERVOL LINKED option, which allows you to configure the OUTPUT 1 gain control to control the gains of OUTPUT 1 and 2 simultaneously.

Note: With use of a user interface, the chassis output gain knob is disabled.

Use of one or two volume control user interfaces is optional. For further detail, see “Mode user interface requirements” on page 28.

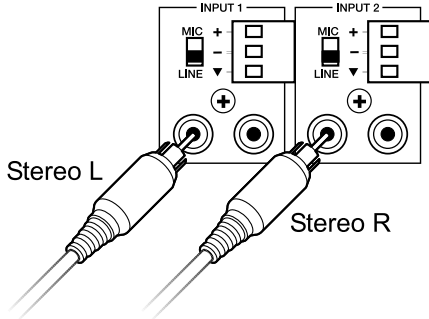
Figure 8. Mixer Mode with volume control user interfaces



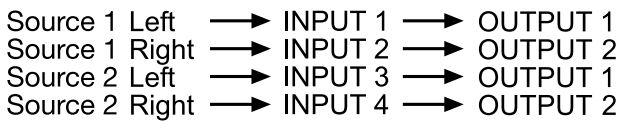
Stereo Select Mode

Line-level sources can be connected using RCA jacks or Euroblock connectors. To connect a stereo source to RCA jacks, use either the left or right RCA jack of each INPUT.

Figure 9. Stereo left and stereo right inputs



Stereo Select Mode source routing is fixed, as shown below.



Auxiliary output can be set up to:

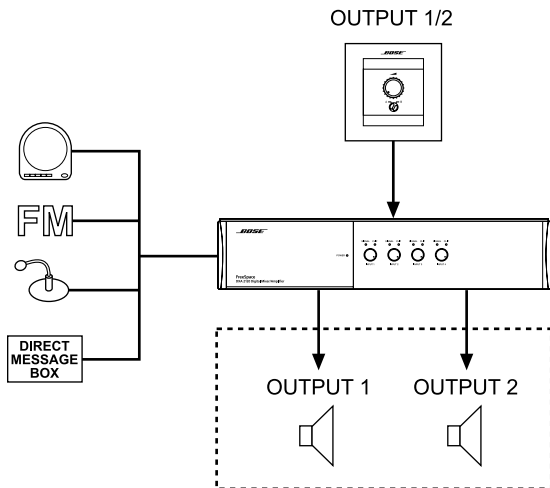
- Play constant audio from Inputs 1 + 2 (summed to mono), Source 1.
- Play constant audio from Inputs 3 + 4 (summed to mono), Source 2.
- Track source selected using A/B select on user interface.

This mode supports the use of one user interface in a single zone using the volume control with A/B select user interface.

Note: With use of a user interface, the chassis output gain knob is disabled.

For further detail, see “Mode user interface requirements” on page 28.

Figure 10. Stereo Select Mode with volume control user interface.



Dual Mono Select Mode

Line-level sources can be connected using RCA jacks or Euroblock connectors. The system sums the two RCA jacks for each input to mono.

Dual Mono Select Mode source routing is fixed, as shown below.

Source 1 → INPUT 1 → OUTPUT 1
 Source 2 → INPUT 2 → OUTPUT 1
 Source 3 → INPUT 3 → OUTPUT 2
 Source 4 → INPUT 4 → OUTPUT 2

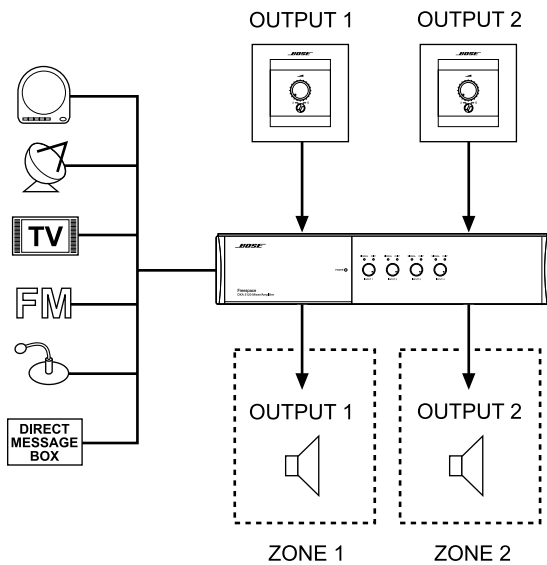
Auxiliary output can be set up to track OUTPUT 1 or constant audio from INPUT 1.

This mode supports the use of one user interface for each output channel using a volume control with A/B select user interface.

Note: With use of a user interface, the chassis output gain knob is disabled.

For further detail, see “Mode user interface requirements” on page 28.

Figure 11. Dual Mono Select Mode with volume control user interfaces



Hardware Installation

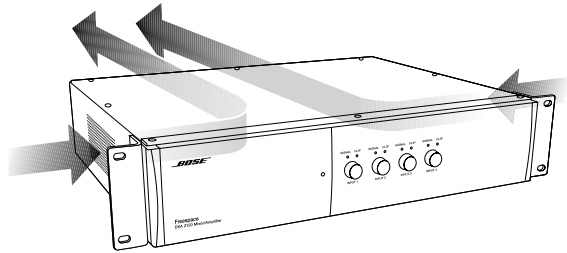
This section provides instructions for installing and wiring the FreeSpace® DXA 2120 Digital Mixer/Amplifier.

Placement Guidelines

For placement of the mixer/amplifier chassis, keep the following in mind:

- Make sure that air can circulate freely behind, beside, and above the chassis for adequate ventilation. There are intake vents on either side and an exhaust vent on the back of the unit. Do not cover or block the vents.

Figure 12. Air intake and exhaust flow for DXA 2120



- Make sure the chassis is protected from heat and kept away from direct heat sources, such as heating vents and radiators.

CAUTION: Do not allow the chassis to exceed the maximum operation temperature of 50° C (122° F). Be aware of conditions in an enclosed rack that may increase the temperature above room-ambient conditions.

Shelf Mounting the Chassis

The Bose® FreeSpace® DXA 2120 Digital Mixer/Amplifier has rubber feet for use when positioning the chassis on a shelf or counter top. They help to protect the surface that supports the unit and to prevent chassis movement. Be sure to follow the “Placement Guidelines” previously described when choosing a location for the unit.

1. Place the mixer/amplifier upside-down on a solid, level surface on a protective covering to avoid scratching the top of the chassis.
2. Insert the supplied rubber feet to the four existing holes on the bottom of the chassis. Use a screwdriver to push the locking pins fully into the chassis, securing the feet.

Note: The rubber feet may be removed by inserting a screwdriver into the screw and turning counterclockwise until the screw backs out of the hole.

Rack-Mounting the Chassis

The chassis requires two 1.75” (4.4 cm) rack-space units with a 16” (40.6 cm) inside depth (including the rear supports).

1. Use the supplied rack ears and hardware for attachment to the chassis.
2. To secure the chassis to the rack, use four screws with washers (not provided) to prevent marring the front panel.

Note: Neoprene rubber washers are a good choice because they grip the screw head and prevent the screws from backing out from vibration during transportation.

Figure 13. Attaching rack ears to the chassis

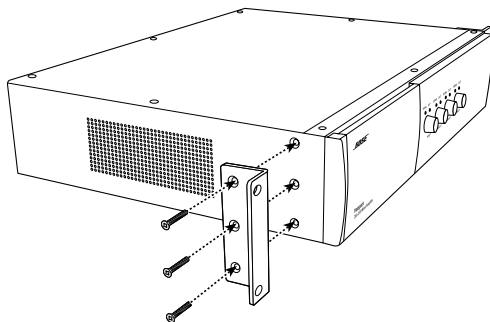
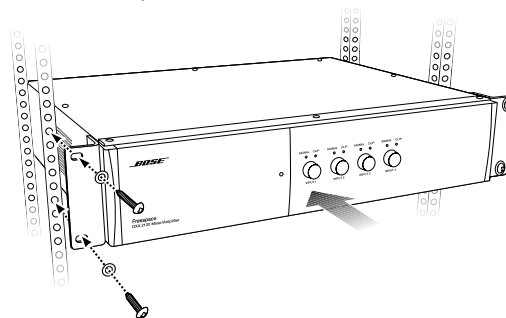


Figure 14. Mounting the chassis in the rack (rack screws and washers not provided)



CAUTION: To transport the rack-mounted chassis, be sure the rear of the chassis is supported mechanically in the rack. Install a shelf under the unit or use brackets for rear support. Lack of proper support may result in damage to the chassis.

CAUTION: Only use the mounting hardware recommended by the rack manufacturer.

User Interface Installation

The FreeSpace® DXA 2120 Digital Mixer/Amplifier is designed to be compatible with the following Bose® user interfaces (also described in the “Additional Accessories” section on page 17).

- Bose® Volume Control User Interface (PC 041966)
- Bose® Volume Control with A/B Select User Interface (PC 041967)
- Bose® CC-1 ControlCenter Zone Controller - Volume Control User Interface
- Bose® CC-2 ControlCenter Zone Controller - Volume Control with A/B Select User Interface

Figure 15. Volume control user interface

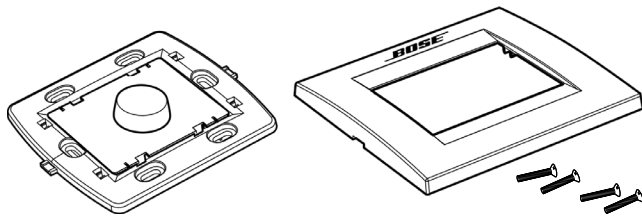
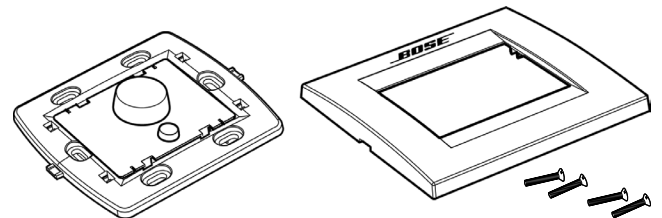
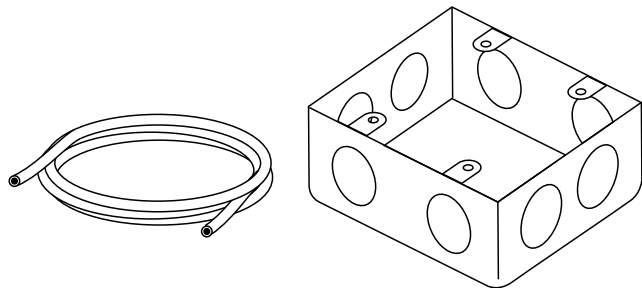


Figure 16. Volume control with A/B select user interface



Additional equipment required (not included):

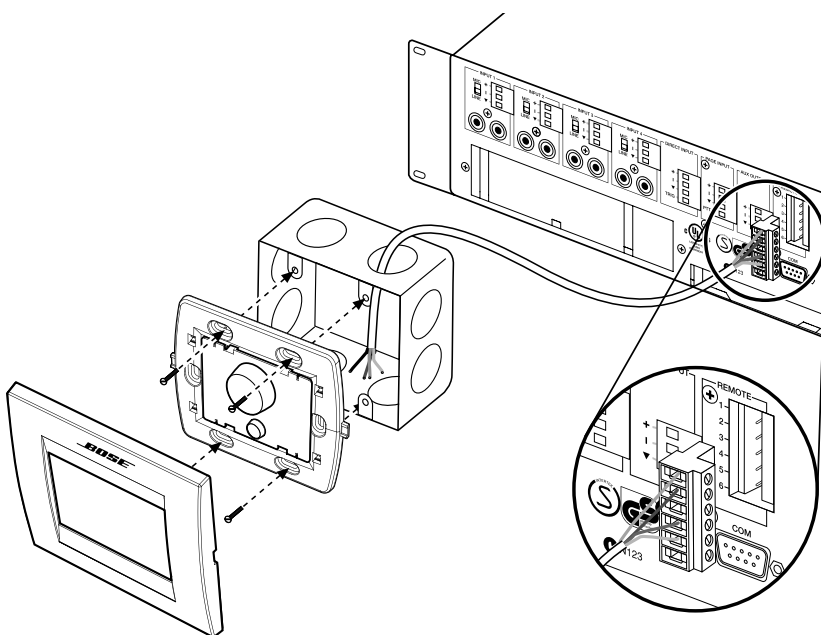
Figure 17. Cable and double-gang electrical box



Cable requirements for the installation of the DXA 2120:

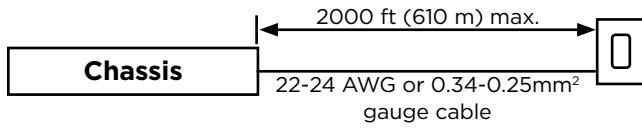
- For the volume control user interface, use a single twisted pair of data-grade cable (22-24 AWG or 0.34-0.25mm²).
- For the volume control with A/B select user interface, use two twisted pairs of data-grade cable (22-24 AWG or 0.34-0.25mm²).

Figure 18. User interface assembly with the FreeSpace® DXA 2120 Digital Mixer/Amplifier

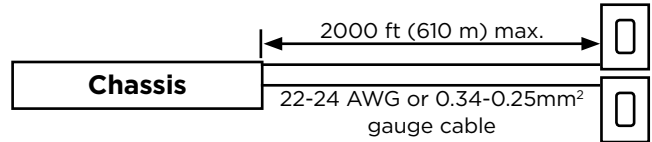


Recommended cable lengths:

For one user interface



For two user interfaces

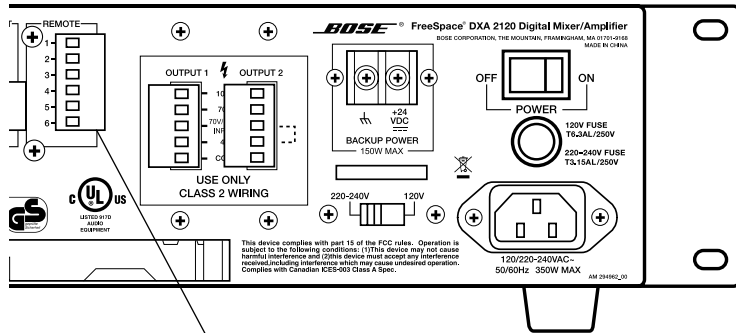


Connect the user interface wires to the appropriate terminals on the 6-pin connector and insert it into the REMOTE jack.



CAUTION: Use only 22-24 AWG or 0.34-0.25mm² gauge cable to connect the user interface to the mixer/amplifier.

Figure 19. Rear connection panel



User interface jack with Euroblock connector

User interface wiring:

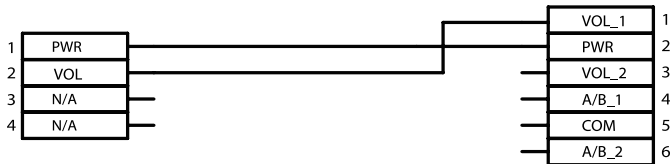
User interface connector

6-terminal input connector mounts to REMOTE jack on the chassis

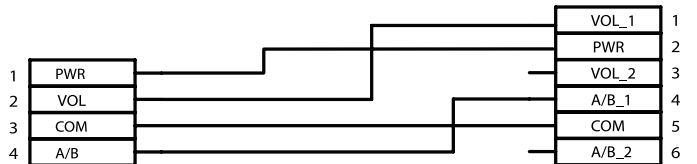
User interface connector

6-terminal input connector mounts to REMOTE jack on the chassis

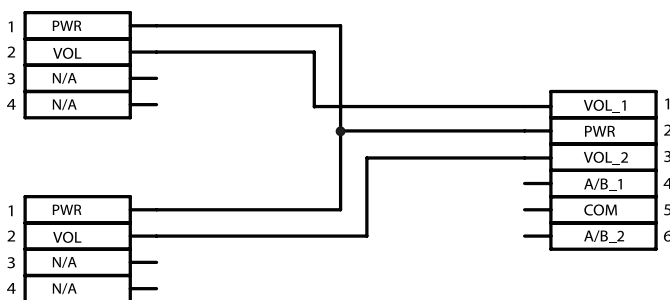
One volume control user interface



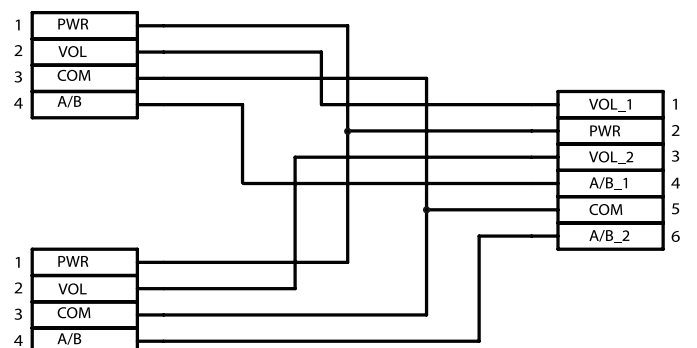
One volume control with A/B select user interface



Two volume control user interfaces



Two volume control with A/B select user interfaces



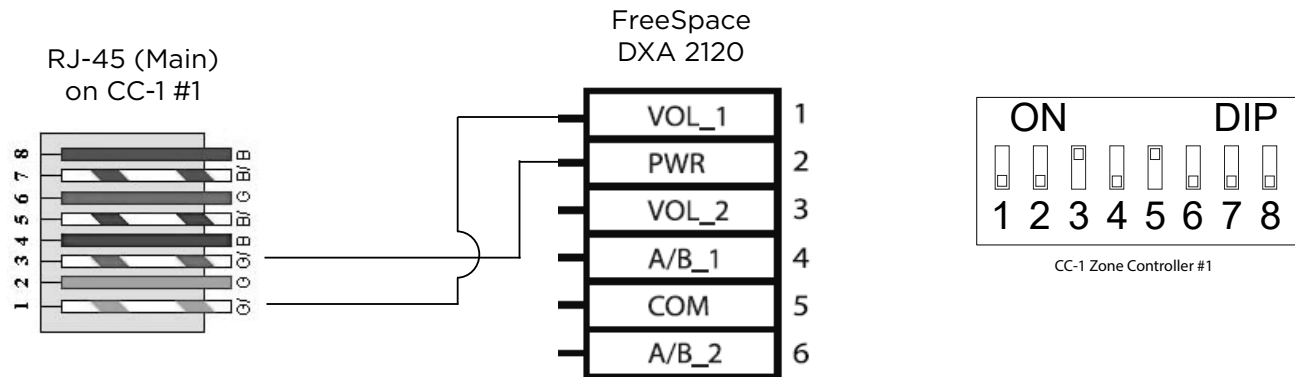
ControlCenter Zone Controllers

The amplifier is designed to work with the CC-1 ControlCenter Zone Controller for remote volume control, or the CC-2 ControlCenter Zone Controller for remote volume control and A/B source selection. See the appropriate Bose volume control user interface installation guide for more details.

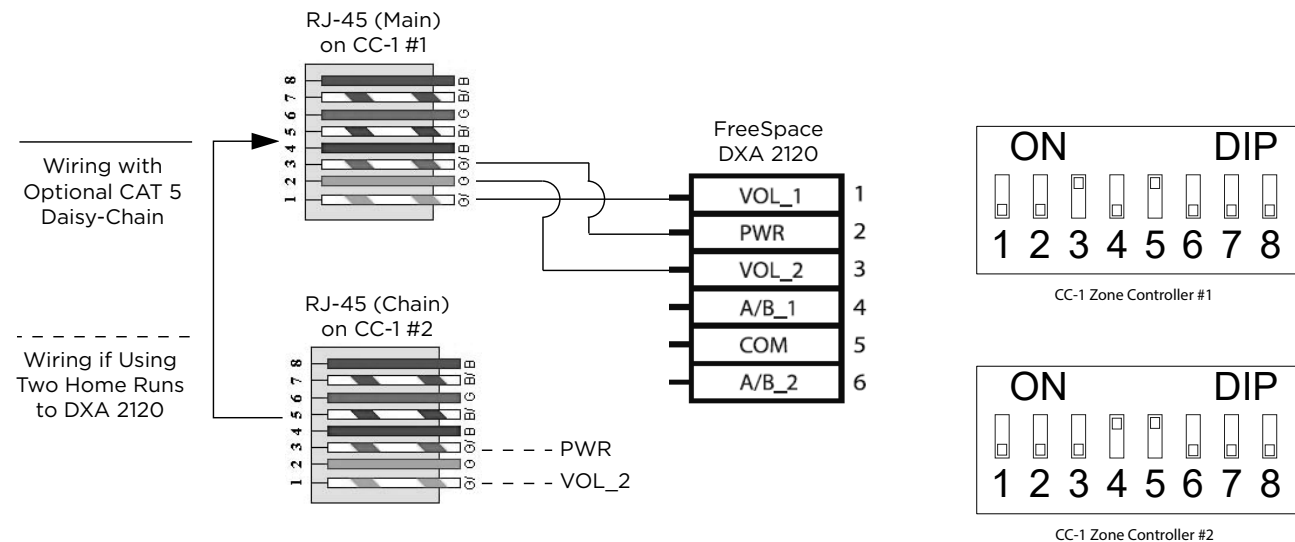
Connecting the CC-1

Pin	Color	FreeSpace DXA 2120
8	Brown	
7	White/Brown	
6	Green	
5	White/Blue	
4	Blue	
3	White/Green	PWR
2	Orange	VOL_2
1	White/Orange	VOL_1

Connect one CC-1 zone controller to FreeSpace® DXA 2120. If one CC-1 is to be used in zone 2 of the DXA 2120, then wire into VOL_2. DIP switch settings are the same.



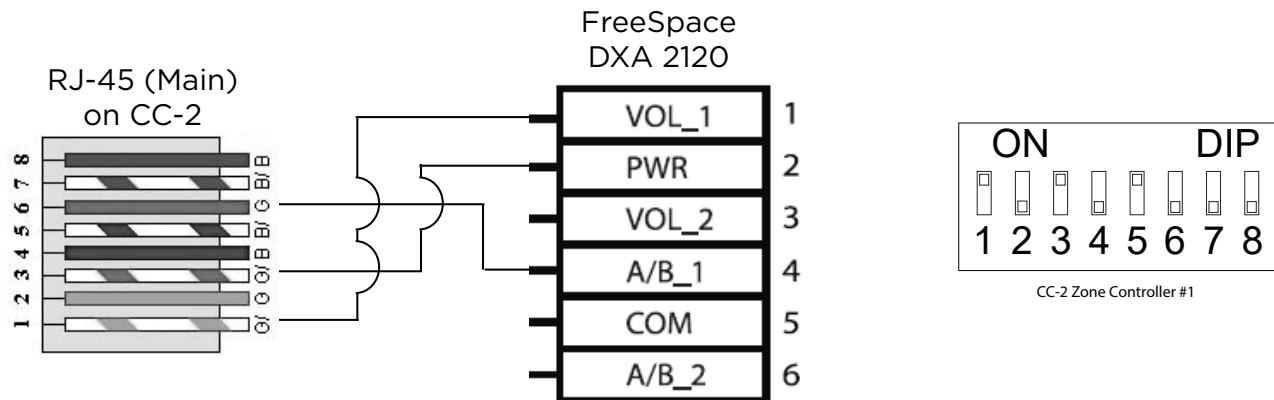
Connect two ganged CC-1 zone controllers to FreeSpace® DXA 2120.



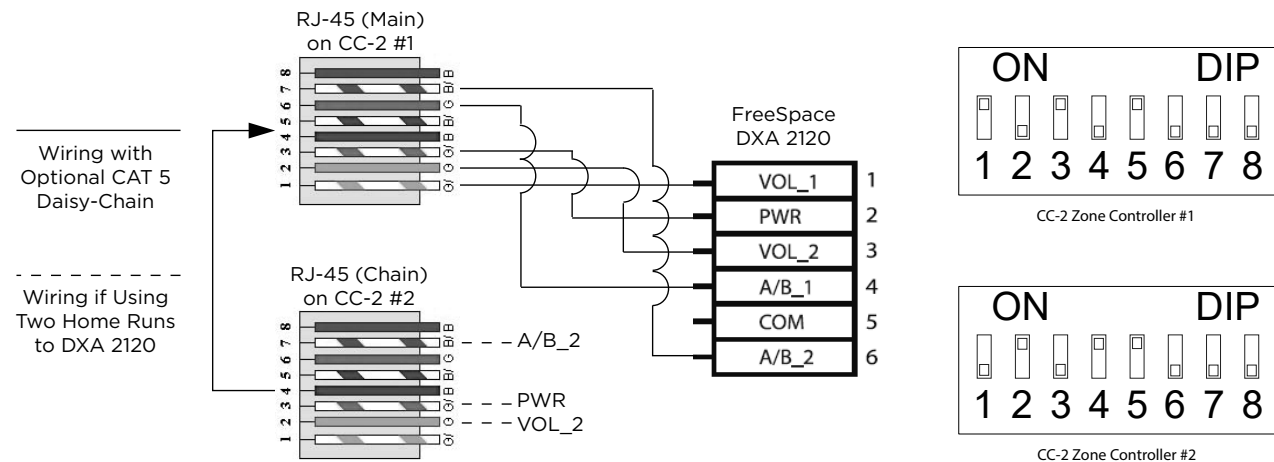
Connecting the CC-2

Pin	Color	FreeSpace DXA 2120
8	Brown	
7	White/Brown	A/B_2
6	Green	A/B_1
5	White/Blue	
4	Blue	
3	White/Green	PWR
2	Orange	VOL_2
1	White/Orange	VOL_1

Connect one CC-2 zone controller to FreeSpace® DXA 2120. If one CC-2 is to be used in zone 2, then wire into VOL_2 and A/B_2. DIP switch settings are the same.

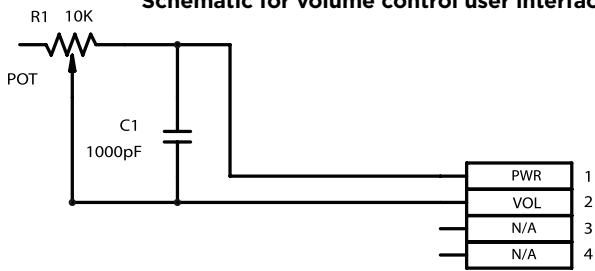


Connect two ganged CC-2 zone controllers to FreeSpace® DXA 2120.

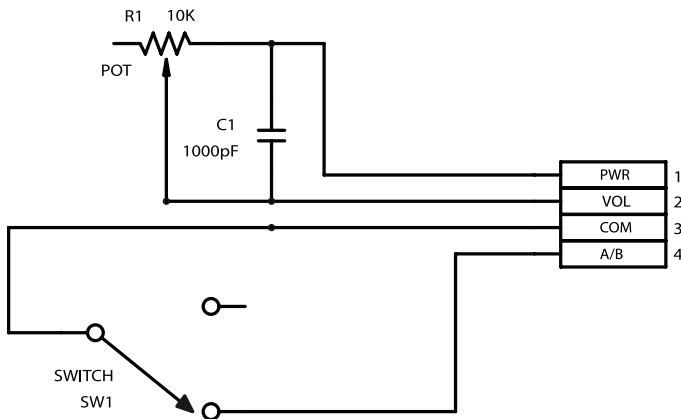


Detailed schematics of user interfaces:

Schematic for volume control user interface



Schematic for volume control with A/B select user interface

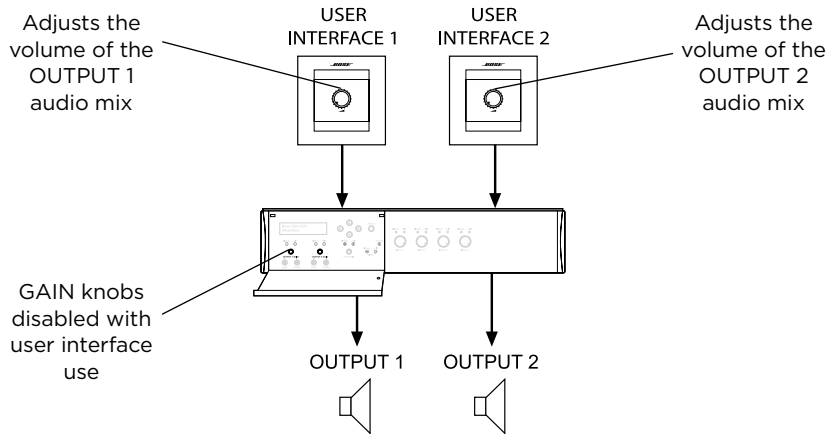


Mode user interface requirements

- For **Mixer Mode:**
Sources can be routed to either or both outputs. Use of one or two volume control user interfaces is optional. No user interfaces are required.
- For **Stereo Select Mode:**
Source routing is fixed. This mode supports the use of one user interface in a single zone. Use the volume control with A/B select user interface.
- For **Dual Mono Select Mode:**
Source routing is fixed. This mode supports the use of one user interface for each output channel. Use two volume controls with A/B select user interfaces.

Mixer Mode user interface application

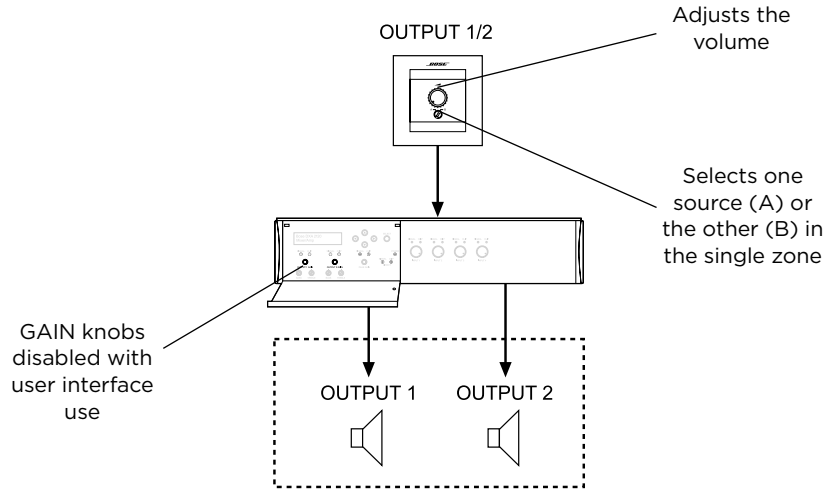
Figure 21. Mixer Mode with volume control user interfaces



Note: Output 1 gain can be configured as the Master Volume, controlling Output 1 and Output 2 gains simultaneously using the MasterVol Linked menu option.

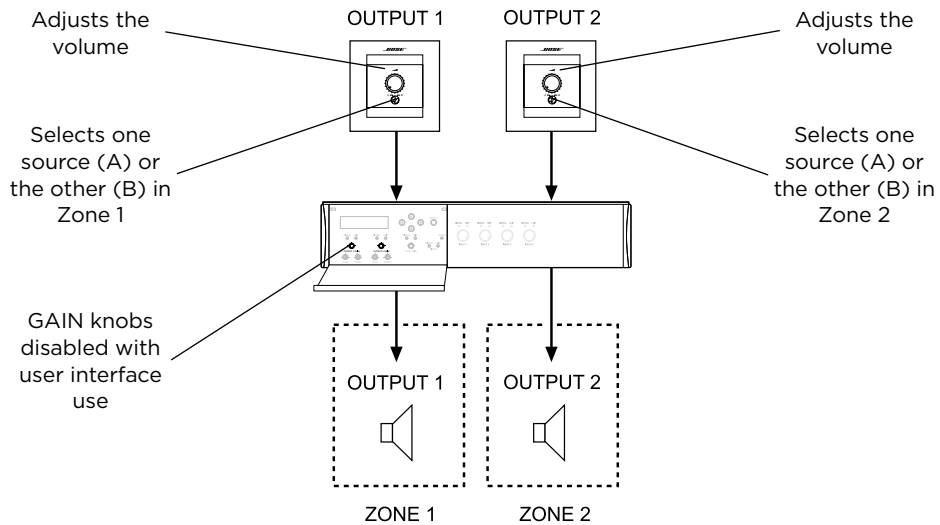
Stereo Select Mode user interface application

Figure 22. Stereo Select Mode with volume control user interface.




Dual Mono Select Mode user interface application

Figure 23. Dual Mono Select Mode with volume control user interfaces



System Wiring

Input and Output wiring information and illustrations are provided on the following pages.

 **WARNING:** Be sure the mixer/amplifier is disconnected from the AC (mains) power before making any connections.

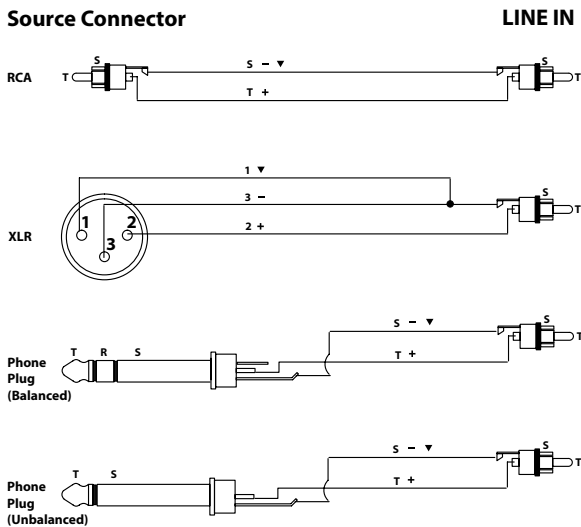
LINE 1-4 Source Inputs

There are two sets of line input jacks for use with varied connector types.

RCA connections

Audio sources can be connected to the LINE INPUT 1-4 RCA jacks using one of the following cable types:

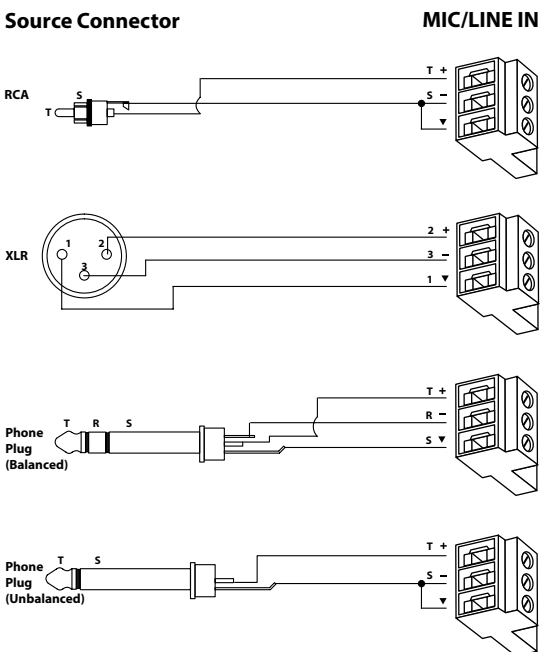
Figure 24. Cable types for RCA connections



Euroblock connections

A microphone or other balanced audio source can be connected to the MIC/LINE INPUT 1-4 Euroblock terminals input using one of the following cable types:

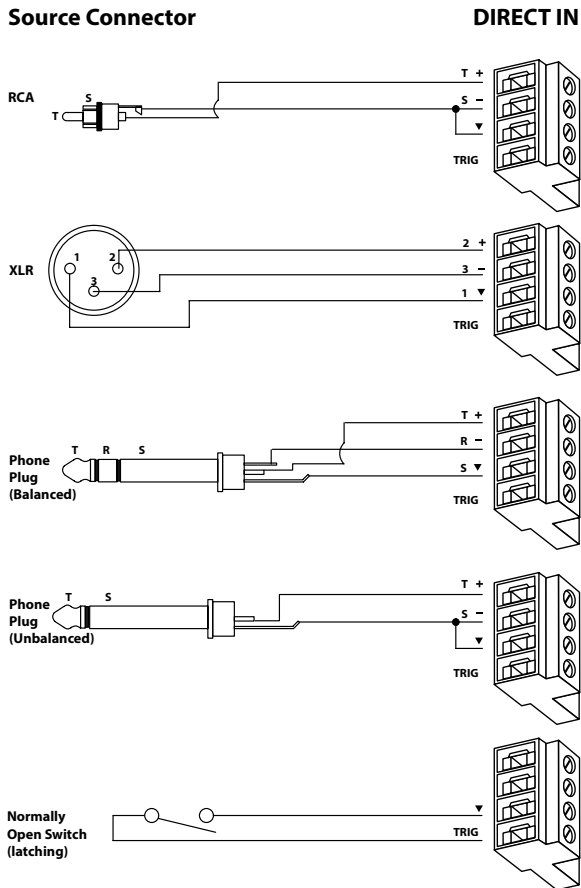
Figure 25. Cable types for Euroblock connections



DIRECT Source Input

A microphone or other audio source can connect to the DIRECT INPUT jack using one of the following cable types. The control input requires a normally open switch.

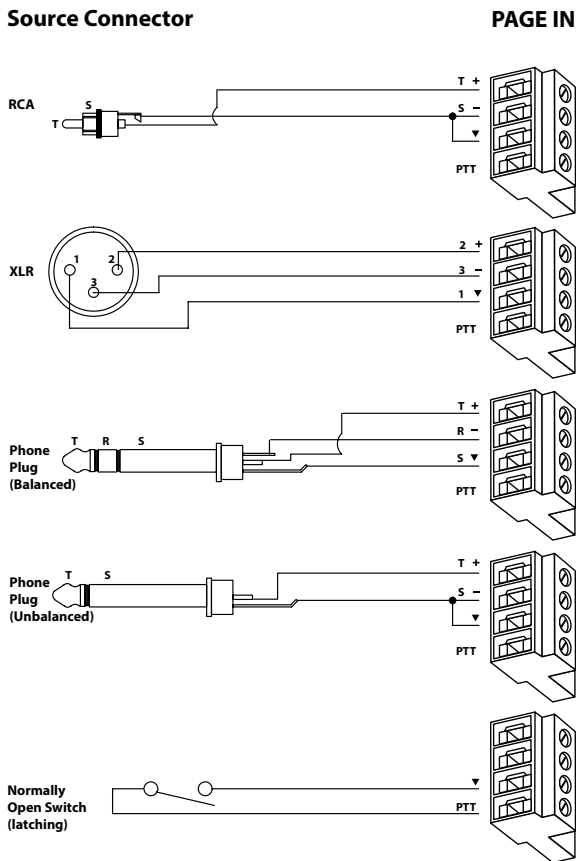
Figure 26. Cable types for DIRECT INPUT



PAGE Source Input

A microphone or another paging source can be connected to the PAGE INPUT jack using one of the following cable types:

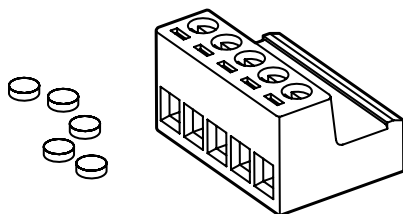
Figure 27. Cable types for PAGE INPUT



OUTPUT Connections

Use the supplied 5-terminal connectors for wiring loudspeakers to the output jacks on the rear of the mixer/amplifier.

Figure 28. 5-terminal connector with screw terminal caps



Insert the speaker wire into the proper terminals for the type of voltage needed, as shown in Figure 25.

Tighten the screws to hold the wires in place and insert the screw terminal caps to cover each screw. These caps prevent making contact with the screws, which could cause an electrical shock.

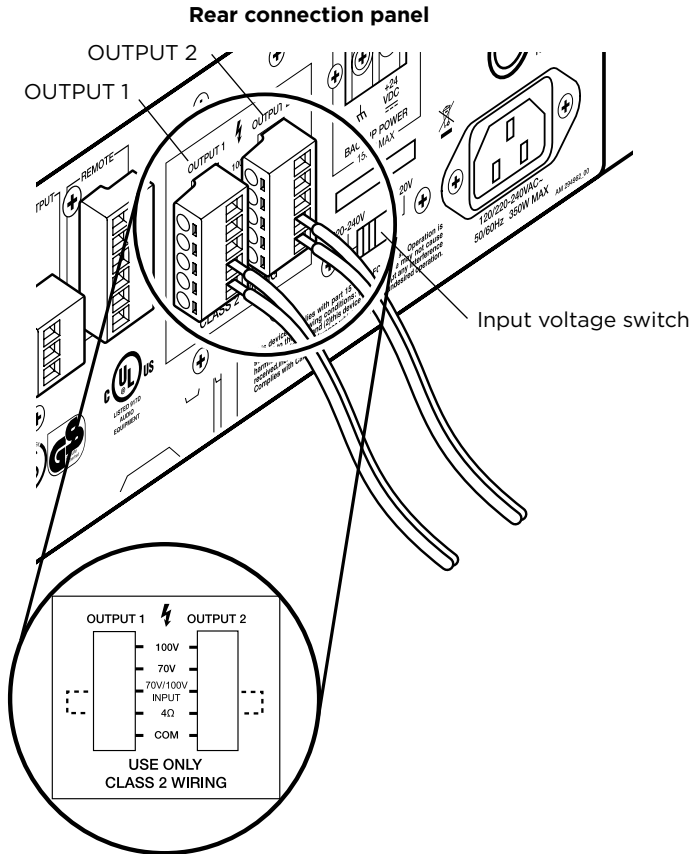
⚡ WARNING: Terminals marked with ⚡ are hazardous live. The external wiring connected to these terminals should be installed by an instructed person.

⚡ WARNING: Terminals marked with ⚡ should be connected to the loudspeakers such that the metal parts of its terminal are inaccessible.

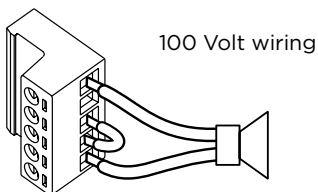
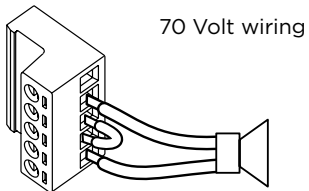
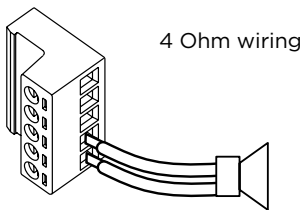
Follow the diagram below to insert the 5-terminal connector into the output jacks on the back of the mixer/amplifier. Notice the proper wiring for 4 ohm, 70 volt, or 100 volt uses. Both 70V and 100V wiring require the use of a jumper cable, as shown.

Note: Use 12 AWG (4 mm²) to 20 AWG (0.5 mm²) gauge wire for the jumper.

Figure 29. 5-terminal connector placement in rear connection panel



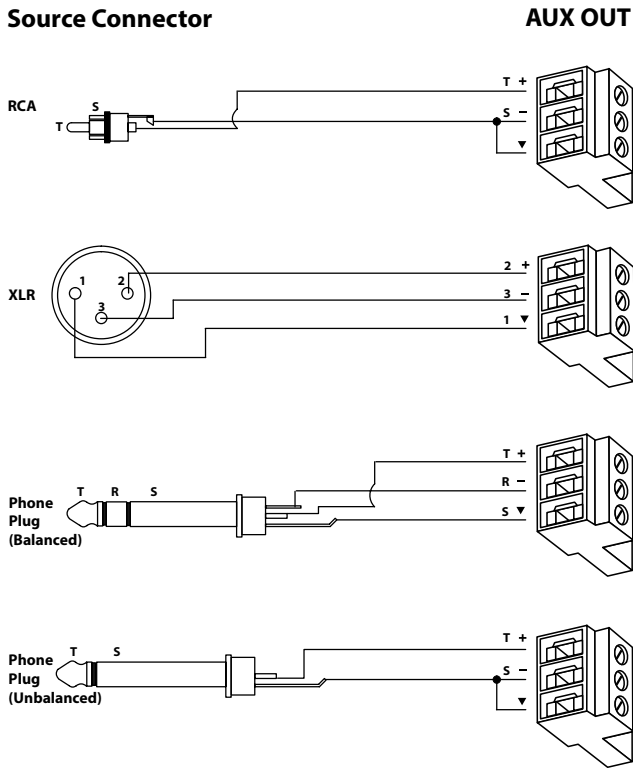
OUTPUT 1 and OUTPUT 2



AUX Output Connection

The signal and any applied processing from any of the four inputs can be output using the line-level AUX OUTPUT jack. This output can feed into another amplifier or other equipment used in the installation.

Figure 30. Cable types of AUX OUTPUT



AC POWER Connection

Input voltage setting (120 or 220-240V)

The rear connection panel of the mixer/amplifier chassis provides an input voltage switch for 120V or 220-240V use. An input voltage switch is not provided on the 100V version.

Change the setting only as needed.

Check the switch setting to be sure it is appropriate for the local power standard.



⚡ WARNING: Be sure to disconnect the mixer/amplifier chassis from AC power before changing the input voltage setting on the rear connection panel.

Fuse Type

Be sure the proper supplied fuse is inserted in the fuse box. Replace the fuse as needed with the proper type. 120V units require a T6.3AL/250V fuse. 220V-240V units require a T3.15AL/250V fuse.

AC POWER connection

Insert the proper power cord for the voltage used in your region.

DC POWER Connection

This unit allows for +24V DC battery backup power in case there is a mains power failure. There will be a noticeable reduction in output due to the limited power of this backup power source.

System Setup

This section provides instructions on adjusting system setting for preferred operation. To make these settings, the system must be connected to power and the POWER switch set to ON.

Figure 31. Rear connection panel

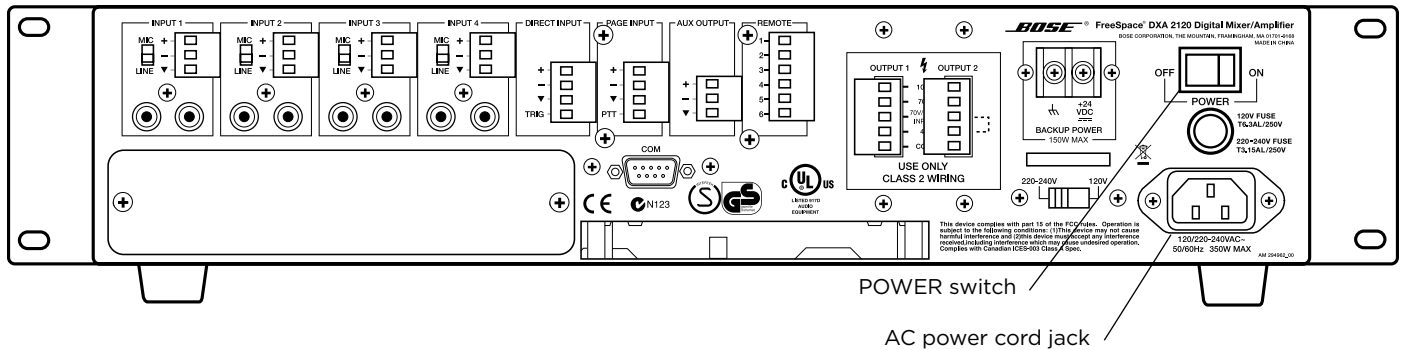
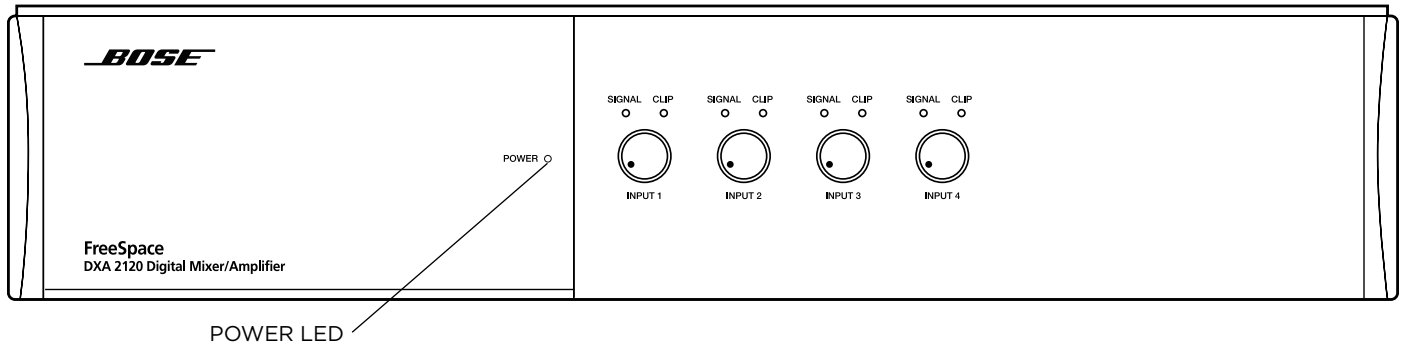


Figure 32. Front control panel with compartment closed

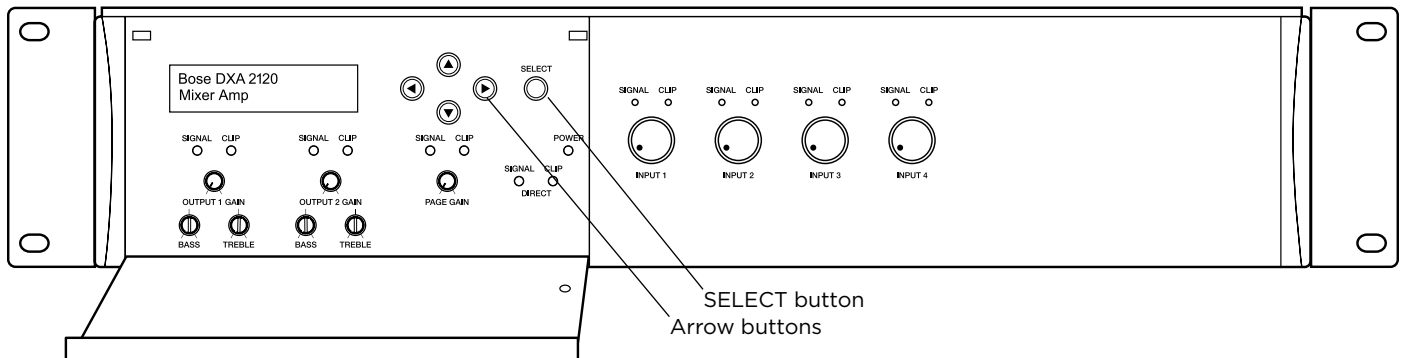


Note: When the system is unplugged, or if a power loss occurs, these system settings are retained in flash memory. However, continuous system operation during a power loss requires the use of an optional backup power source.

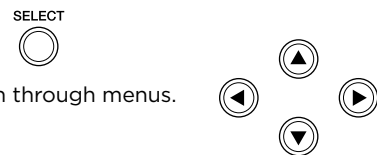
System Setup Procedure

When the unit is on, the POWER LED lights. Opening the front control compartment gives you access to the LCD and control buttons. The LCD displays the product model name at startup.

Figure 33. Front control compartment



- If the system is locked, simultaneously press the left and right arrow buttons and hold for five seconds. Lockout Off appears.
- When the system is unlocked, you can navigate to system setup options.
- Use the SELECT button to activate a menu option and to confirm a new setting.
- Use the arrow buttons to the right of the LCD to move forward, back, up, and down through menus.



Selecting an operation mode

The setting menus available depend on the mode of operation you choose. Use the right arrow button to enter the mode menu. Then use the up or down arrows to select the mode you want.

Choose from:

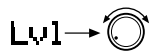
- **Mixer Mode:** The system can mix up to four mic/line inputs to each of the two output channels for use in one or two zones.
- **Stereo Select Mode:** With up to two stereo sources connected and using both output channels, the system provides stereo sound to a single output zone.
- **Dual Mono Select Mode:** With two input sources connected to each of the two output channels, the system provides audio in two zones.
- **Utility:** Includes system lockout, an option to restore all settings to the factory defaults, and the ability to view firmware and EQ versions.

To confirm your selection, press the SELECT button. An asterisk (*) appears to the left of the selection made.

Setting the options for that mode

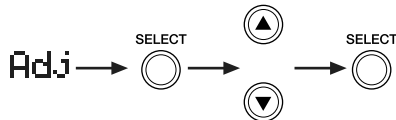
There are several ways to change settings and particular buttons to use for each type of setting. Such as:

- To adjust **Input Vol Lvl**, use the knobs on the mixer/amplifier front panel only. The level that is set appears in the menu field, but cannot be changed in the menu.
- For **Output Vol Lvl**, adjust the gain knobs for output, located in the front control compartment.
- For **Output Bass Lvl** and **Output Treb Lvl**, turn the gain screws for bass and treble, located in the front control compartment.
- For **Page Vol Lvl**, use the PAGE GAIN knob, located in the front control compartment.



To change **Adj** menu fields:

1. Activate the field by pressing SELECT.
2. Use the up or down arrow to adjust the value.
3. Press SELECT to confirm the setting and move on.



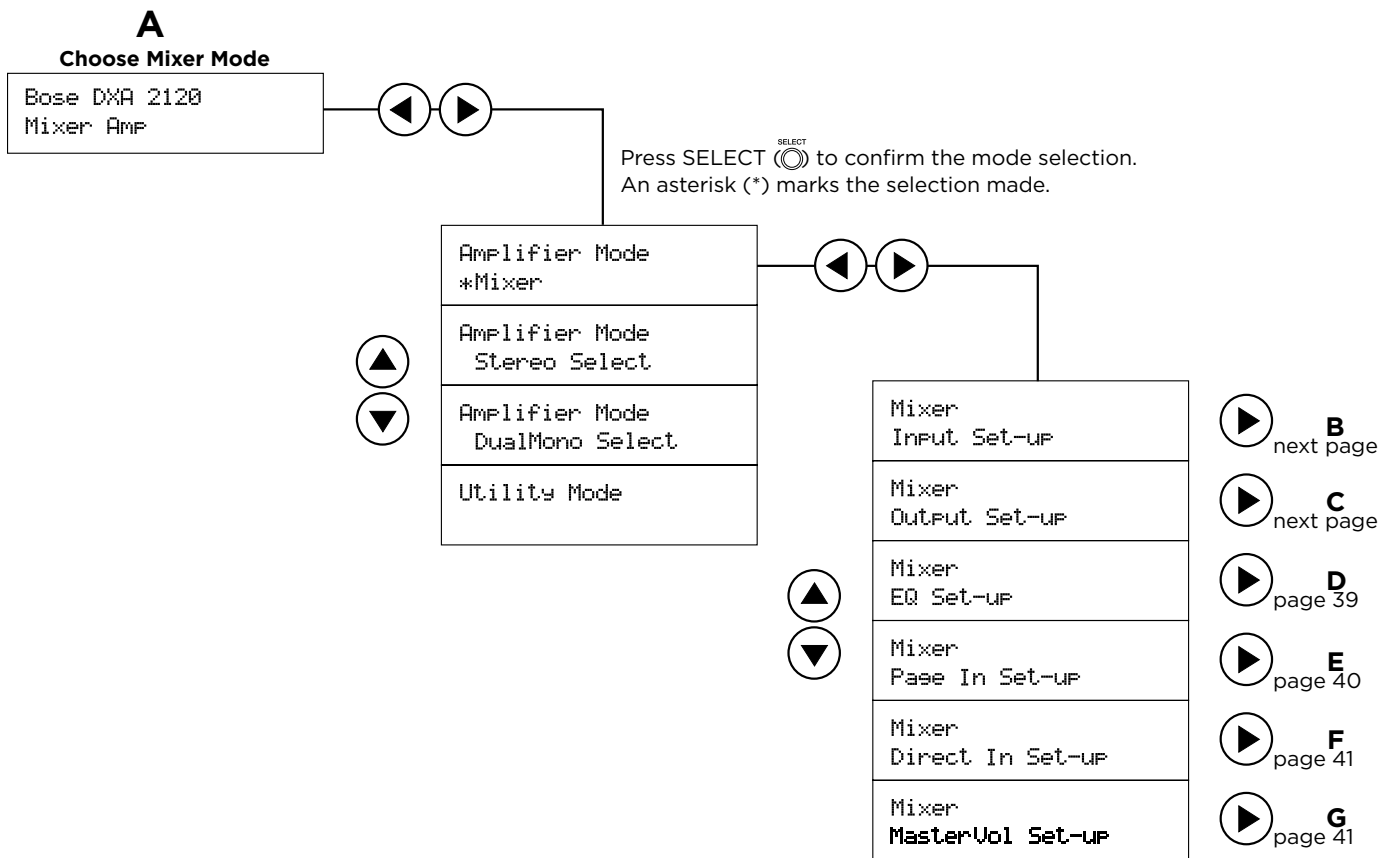
Note: After a 45 second pause (with no activity), the system resets to the initial menu for the chosen mode.

Mixer Mode Settings

Here is an overview of common steps to follow in setting up the Mixer Mode:

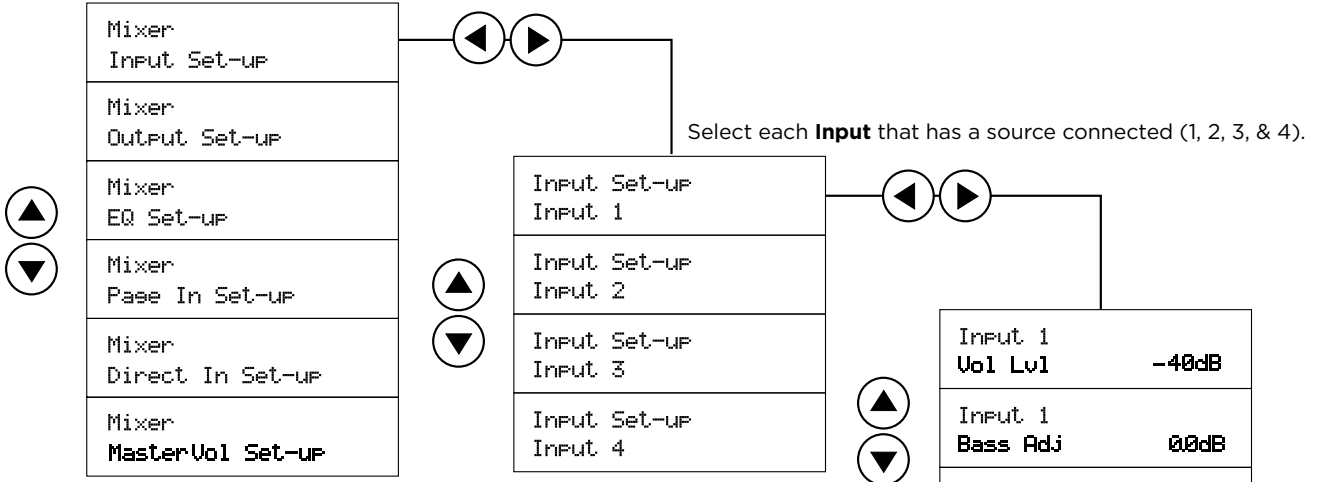
- A. Choose this mode
- B. Set up inputs
- C. Set up outputs
- D. Choose EQ settings
- E. Set up Page Input, if applicable
- F. Set up Direct Input, if applicable
- G. Set up Master Volume, if applicable

Set up menus unfold as you move right to the options provided, as shown.



B

Mixer Input Set-up

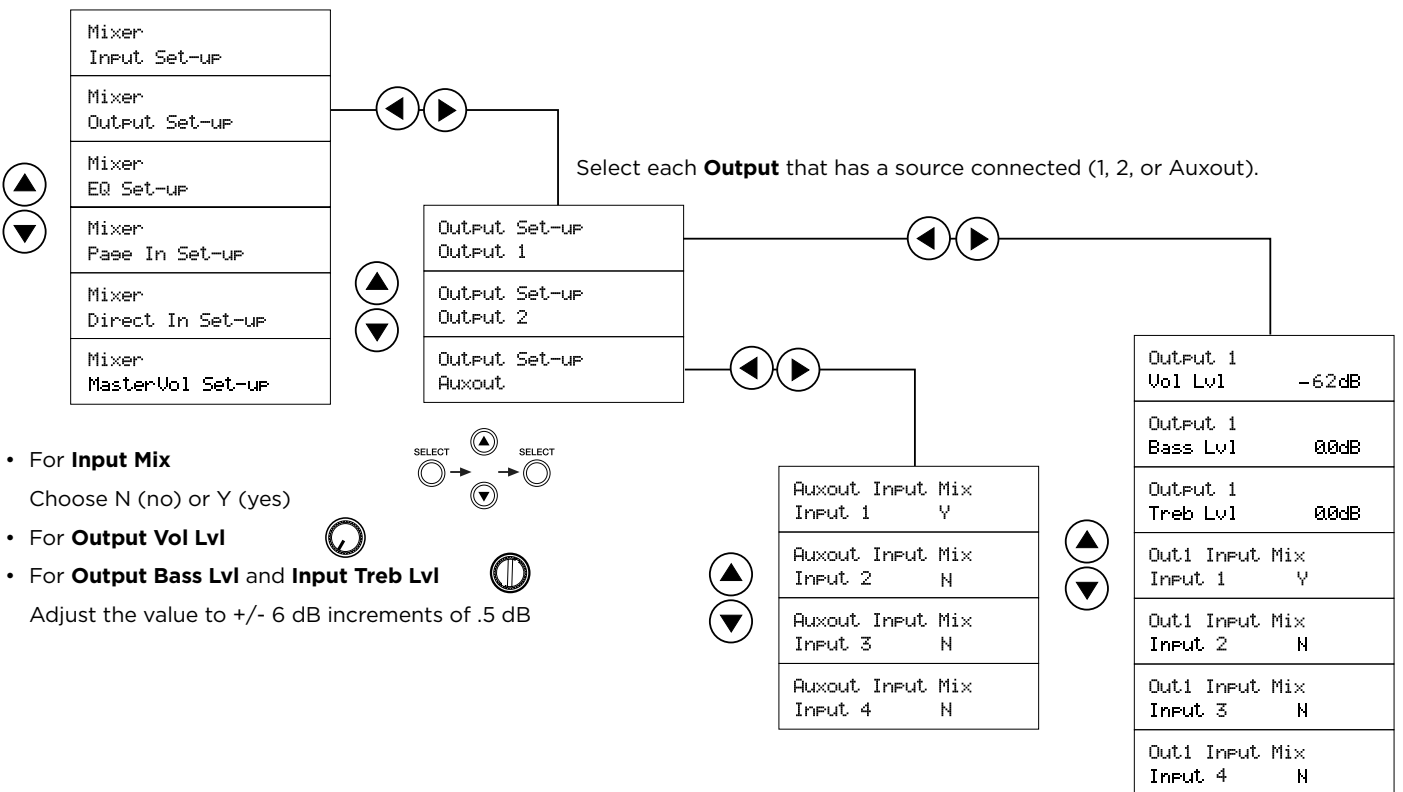


- For **Input Vol Lvl**
- For **Input Bass Adj and Input Treb Adj**
Adjust the value +/- 6 dB increments of .5 dB
- For **AGCEnable**
Choose N (no) or Y (yes)

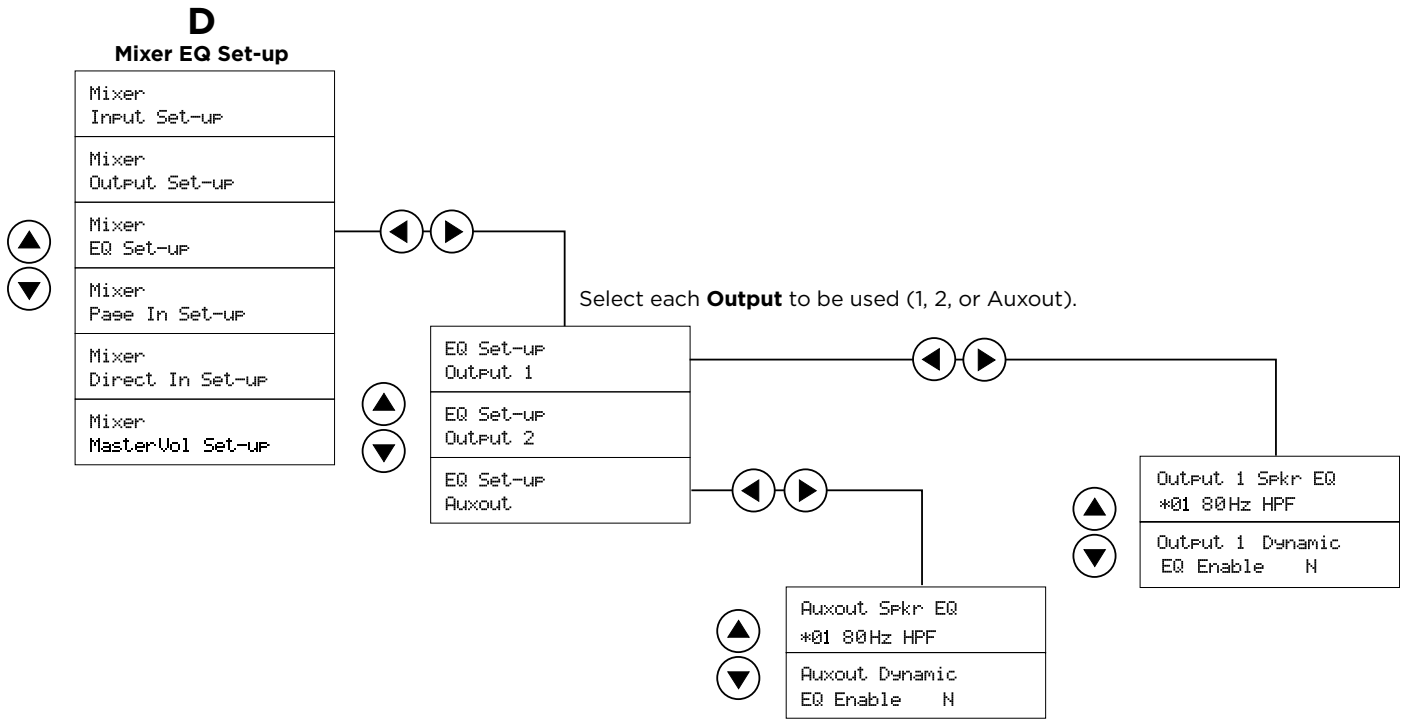
Note: AGC defaults to N. AGC is recommended for use with low-level sources (i.e. microphone with low sensitivity).

C

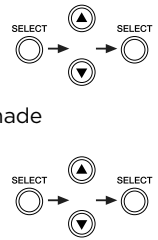
Mixer Output Set-up



- For **Input Mix**
Choose N (no) or Y (yes)
- For **Output Vol Lvl**
- For **Output Bass Lvl and Input Treb Lvl**
Adjust the value to +/- 6 dB increments of .5 dB

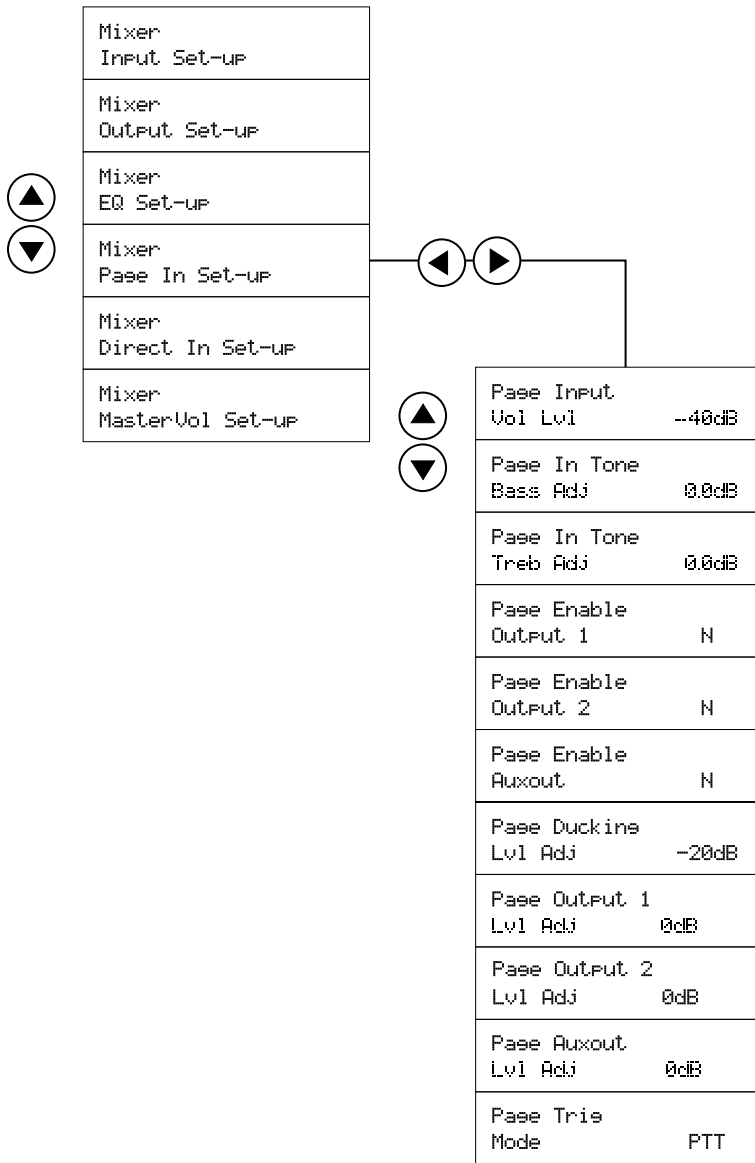


- For **Spkr EQ**
Move up or down to choose the EQ setting needed
An asterisk (*) marks the selection made
- For **Dynamic EQ Enable**
Choose N (no) or Y (yes)

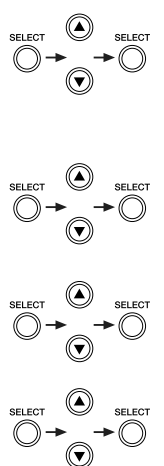


Note: Dynamic EQ maintains tonal balance at all listening levels. The equalization adjusts automatically for the output level setting.

E
Mixer Page In Set-up



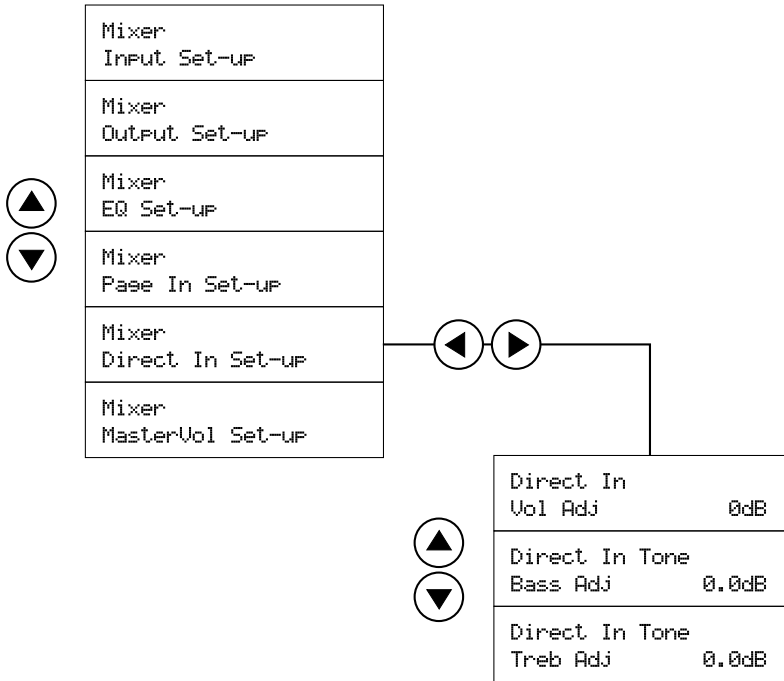
- For **Page Vol Lvl** Adjust the value to +/- 6 dB in increments of .5 dB
- For **Page Bass Adj** and **Page Treb Adj** Adjust the value to +/- 6 dB in increments of .5 dB
- For **Page Enable** Choose N (no) or Y (yes)
- For **Page Ducking Lvl Adj** Adjust the value from -50 dB to 0 dB in increments of 1 dB
- For **Output Lvl Adj** Adjust the value to +/- 20 dB in increments of 1 dB
- For **Page Trig Mode** Choose PTT or Auto



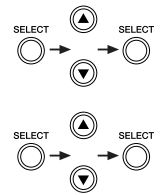
Note: In Page Trig Mode, the page output can be triggered by pushing the button on a push-to-talk style microphone (PTT), or triggers automatically when a signal is detected at the Page input (Auto).

F

Mixer Direct In Set-Up

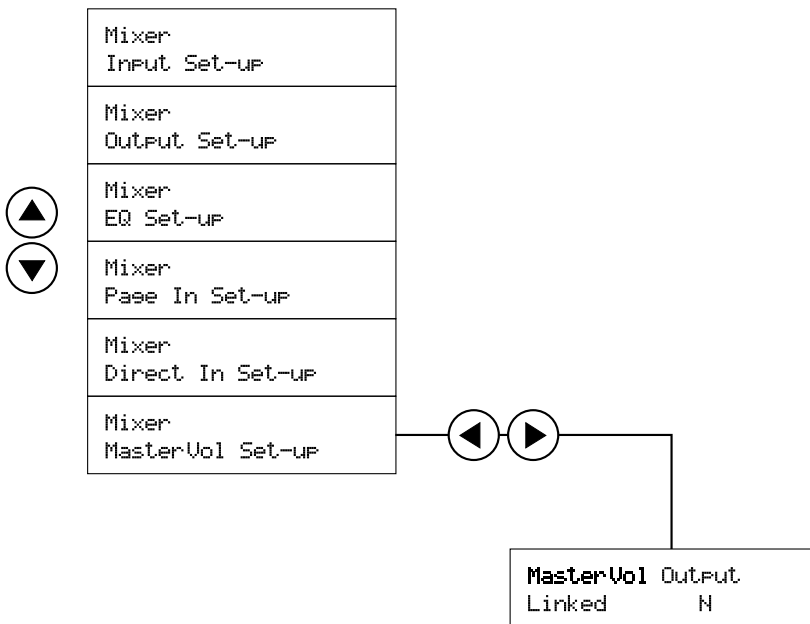


- For **Vol Adj**
Adjust the value from -40 dB to +10 dB in increments of 1 dB
- For **Bass Adj** and **Treb Adj**
Adjust the value to +/- 6 dB in increments of .5 dB

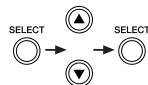


G

Mixer Master Vol Set-up



- For **Output Linked**
Choose N (no) or Y (yes)



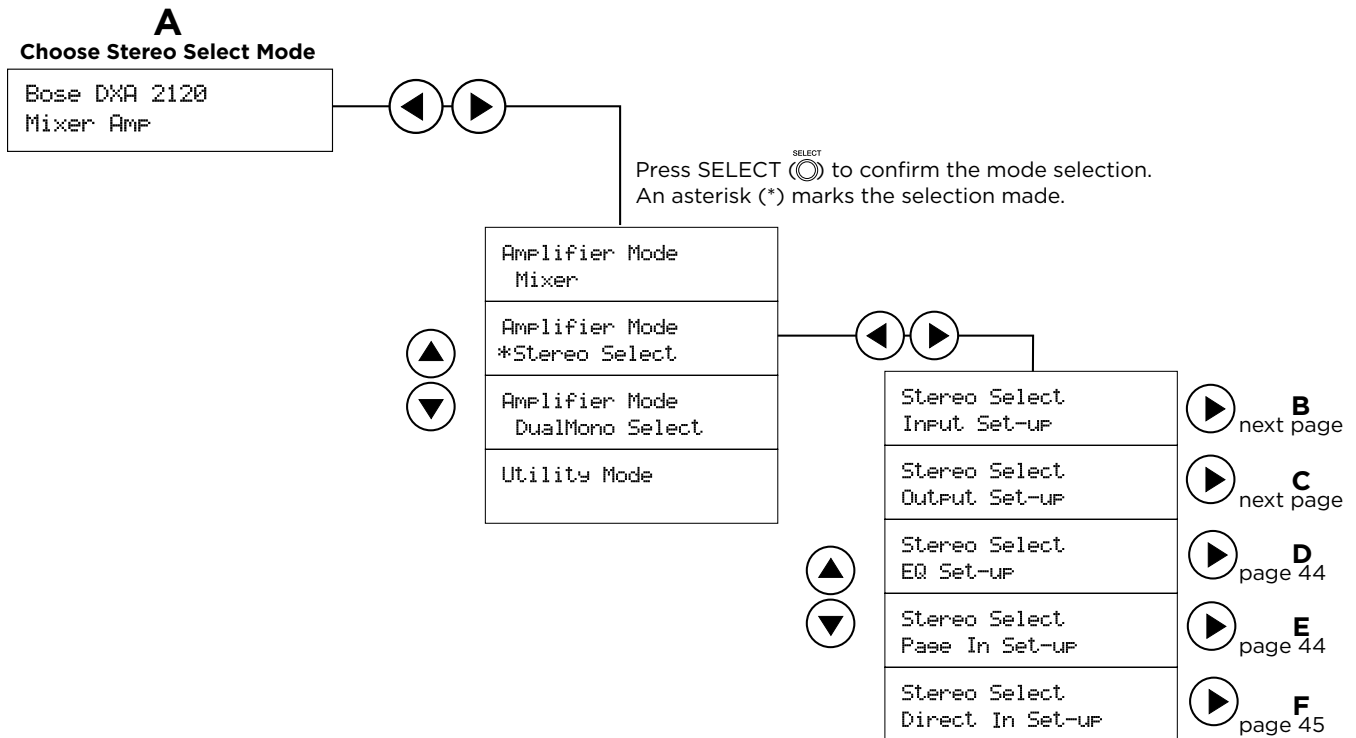
Note: Y links Output 1 and Output 2 gains for control using the Output 1 gain knob.

Stereo Select Mode Settings

Here is an overview of common steps to follow in setting up the Stereo Select Mode:

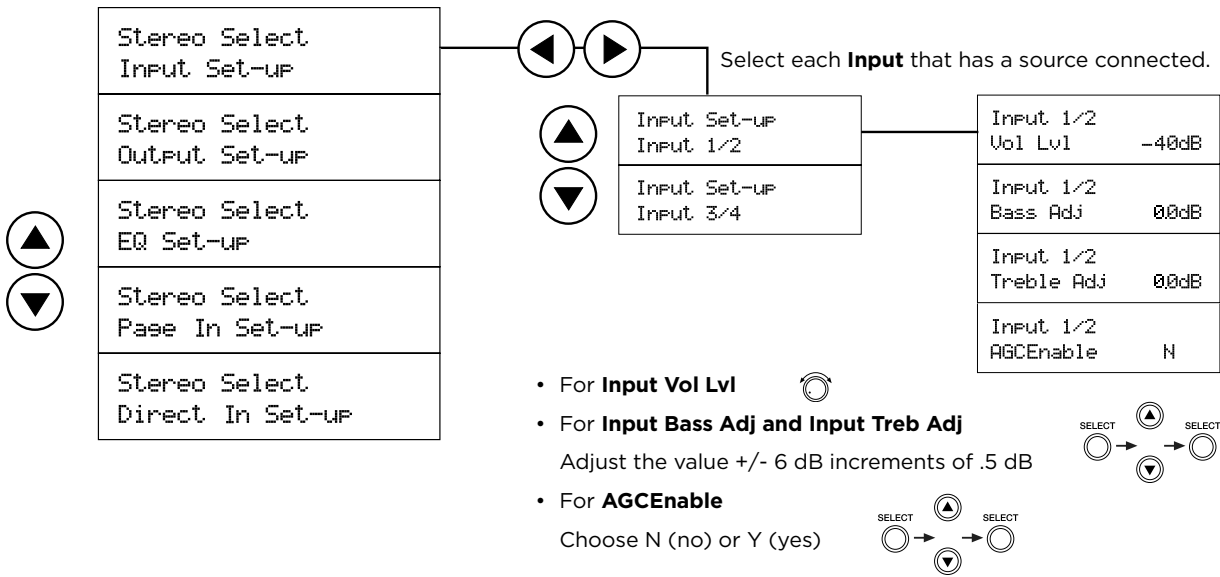
- A. Choose this mode
- B. Set up inputs
- C. Set up outputs
- D. Choose EQ settings
- E. Set up Page Input, if applicable
- F. Set up Direct Input, if applicable

Setup menus unfold as you move right to the options provided, as shown



B

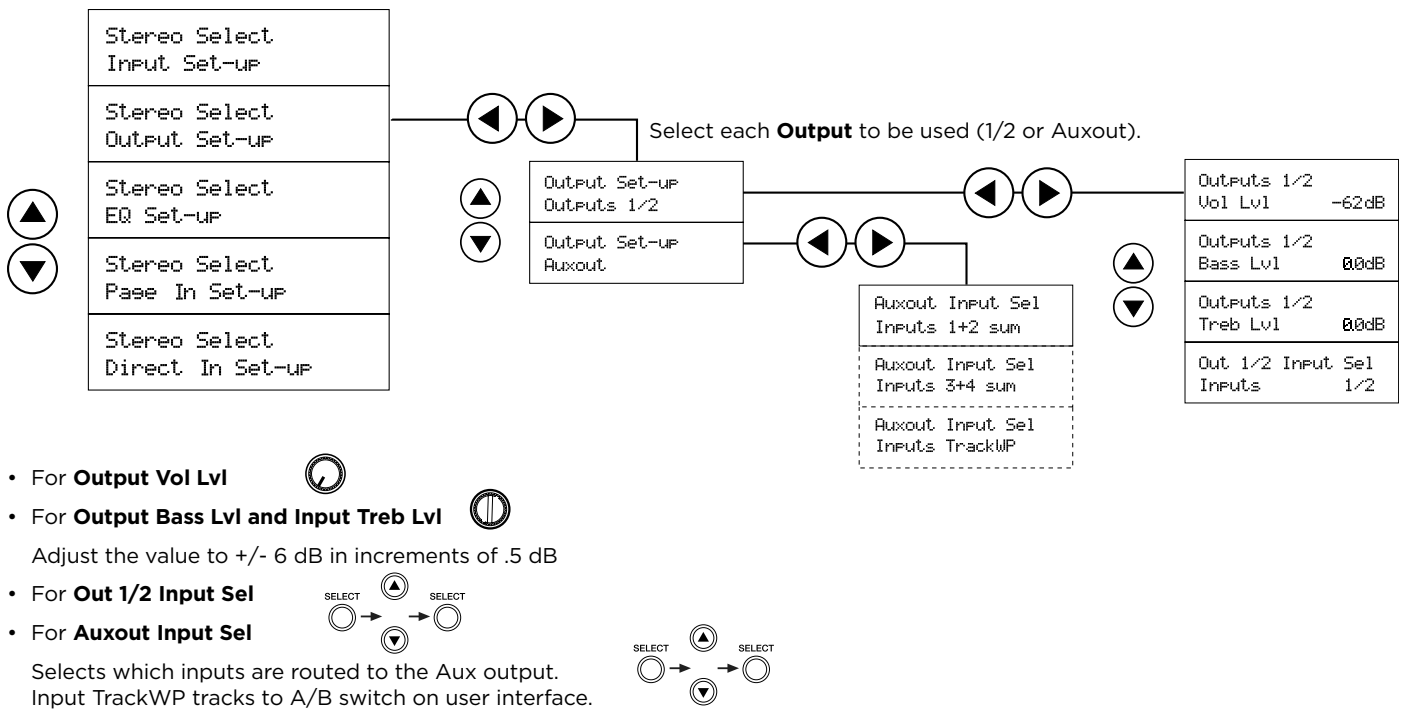
Stereo Select Input Set-up



Note: AGC defaults to N. AGC is recommended for use with low-level sources (i.e., microphone with low sensitivity).

C

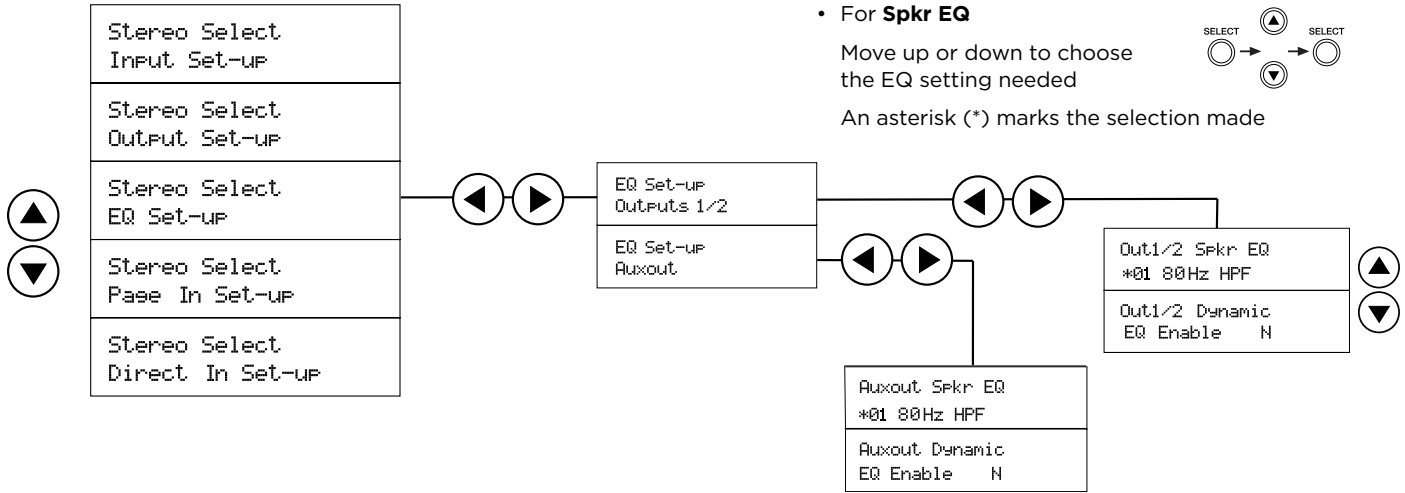
Stereo Select Output Set-up



Note: If TrackWP is selected and a user interface is installed, the input (A/B) selected on the user interface will be displayed.

D

Stereo Select EQ Set-up



• For **Spkr EQ**

Move up or down to choose the EQ setting needed

An asterisk (*) marks the selection made

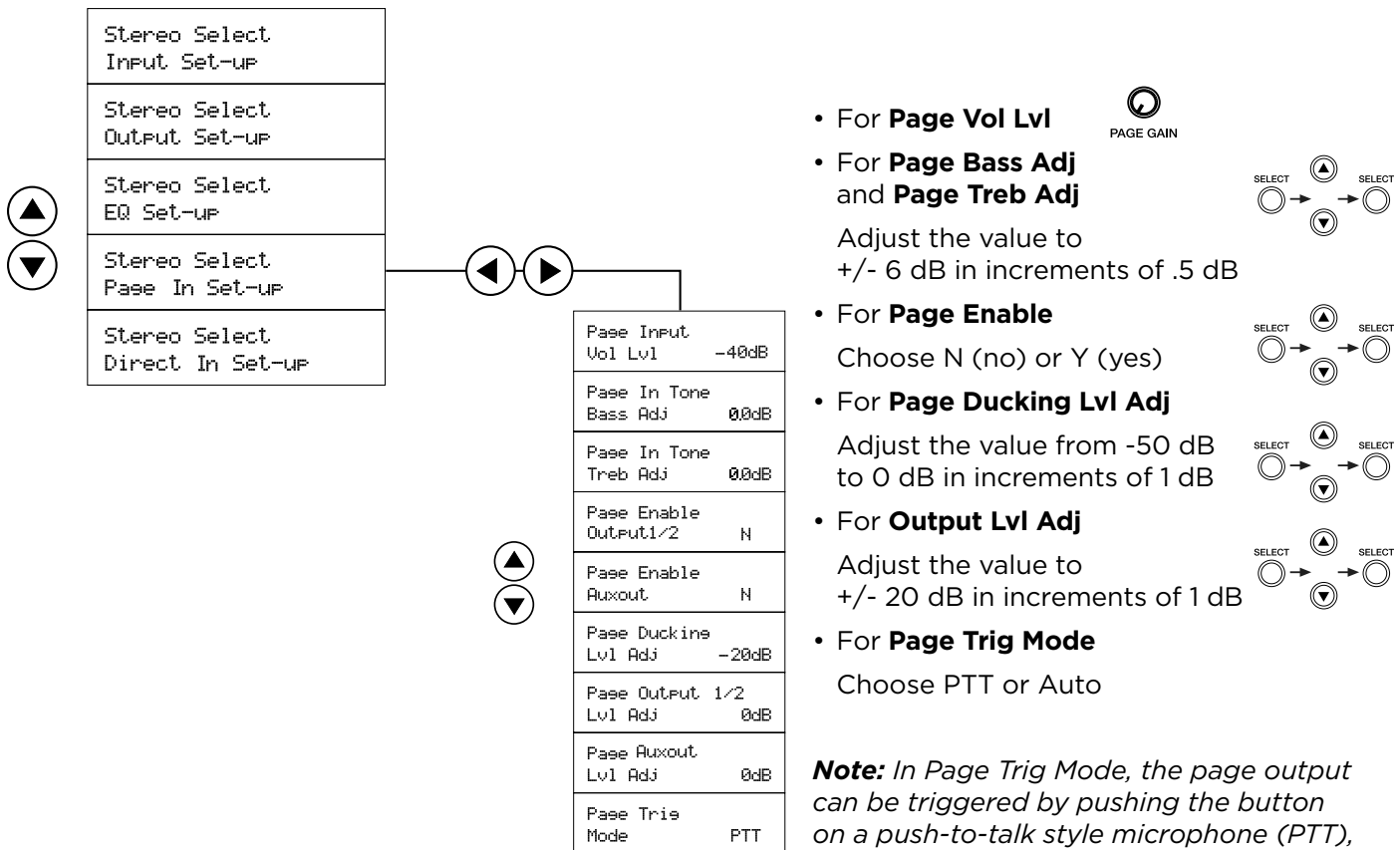
• For **Dynamic EQ Enable**

Choose N (no) or Y (yes)

Note: Dynamic EQ maintains tonal balance at all listening levels. The equalization adjusts automatically for the output level setting.

E

Stereo Select Page In Set-up



• For **Page Vol Lvl**

• For **Page Bass Adj** and **Page Treb Adj**

Adjust the value to +/- 6 dB in increments of .5 dB

• For **Page Enable**

Choose N (no) or Y (yes)

• For **Page Ducking Lvl Adj**

Adjust the value from -50 dB to 0 dB in increments of 1 dB

• For **Output Lvl Adj**

Adjust the value to +/- 20 dB in increments of 1 dB

• For **Page Trig Mode**

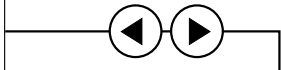
Choose PTT or Auto

Note: In Page Trig Mode, the page output can be triggered by pushing the button on a push-to-talk style microphone (PTT), or triggers automatically when a signal is detected at the Page input (Auto).

F

Stereo Select Direct in Set-up

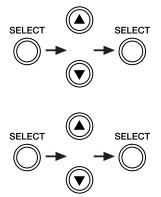
Stereo Select Input Set-up
Stereo Select Output Set-up
Stereo Select EQ Set-up
Stereo Select Pase In Set-up
Stereo Select Direct In Set-up



Direct In Vol Adj	0dB
Direct In Tone Bass Adj	00dB
Direct In Tone Treb Adj	00dB



- For **Vol Adj**
Adjust the value from -40 dB to +10 dB in increments of 1 dB
- For **Bass Adj** and **Treb Adj**
Adjust the value to +/- 6 dB in increments of .5 dB

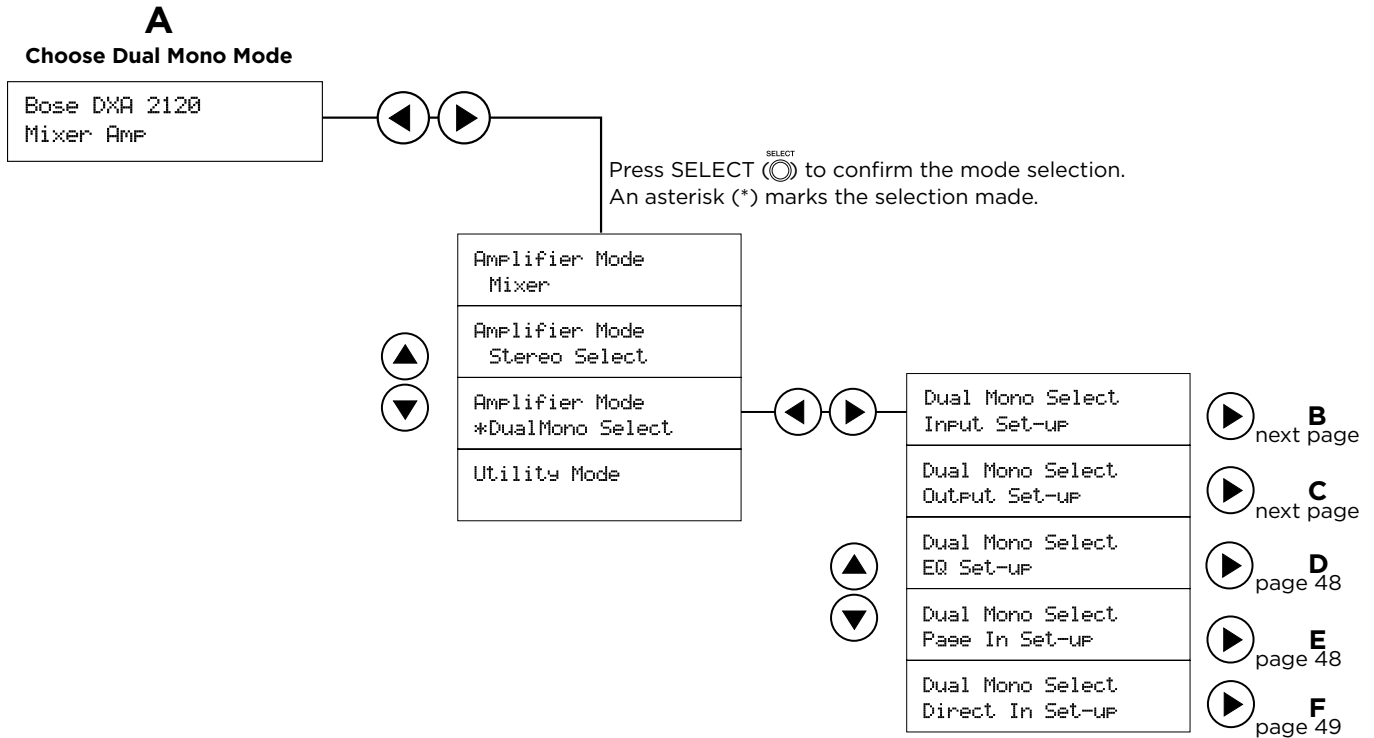


Dual Mono Select Mode Settings

Here is an overview of common steps to follow in setting up the Dual Mono Select Mode:

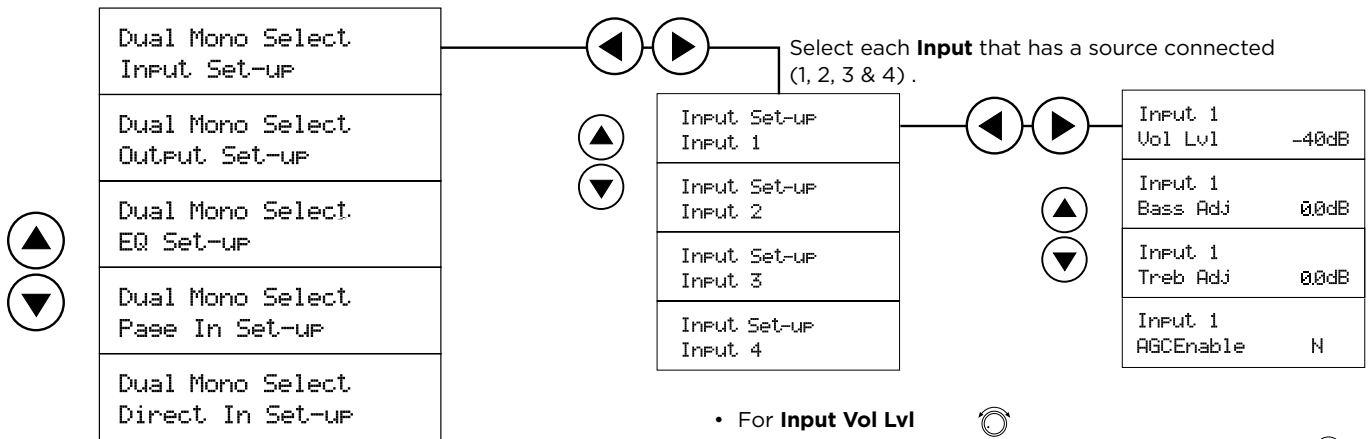
- A. Choose this mode
- B. Set up inputs
- C. Set up outputs
- D. Choose EQ settings
- E. Set up Page Input, if applicable
- F. Set up Direct Input, if applicable

Setup menus unfold as you move right to the options provided, as shown.



B

Dual Mono Select Input Set-up

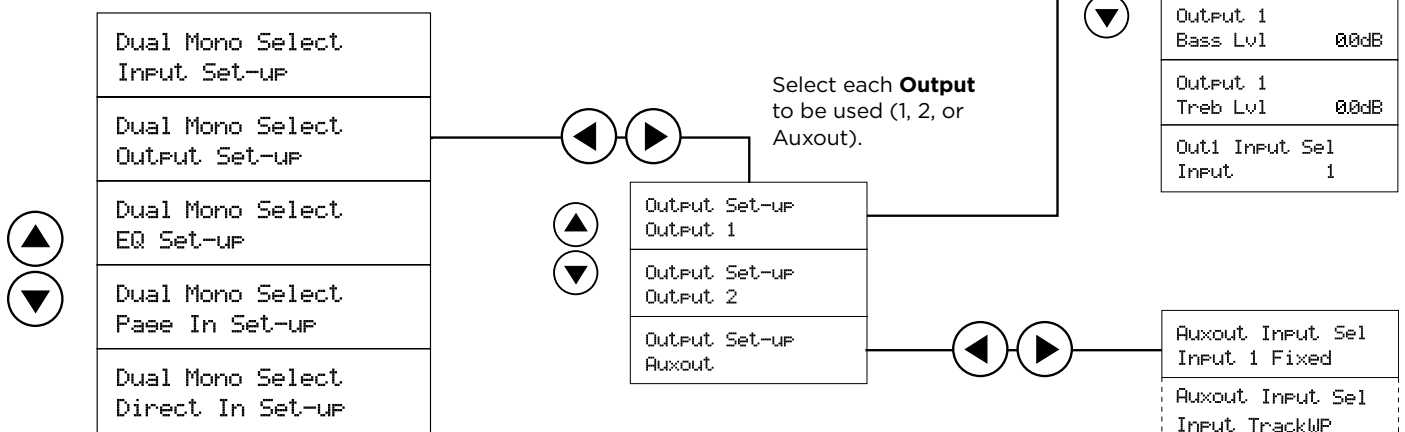


- For **Input Vol Lvl** Adjust the value +/- 6 dB increments of .5 dB
- For **Input Bass Adj and Input Treb Adj** Adjust the value +/- 6 dB increments of .5 dB
- For **AGCEnable** Choose N (no) or Y (yes)

Note: AGC defaults to N. AGC is recommended for use with low-level sources (i.e., microphone with low sensitivity).

C

Dual Mono Select Output Set-up

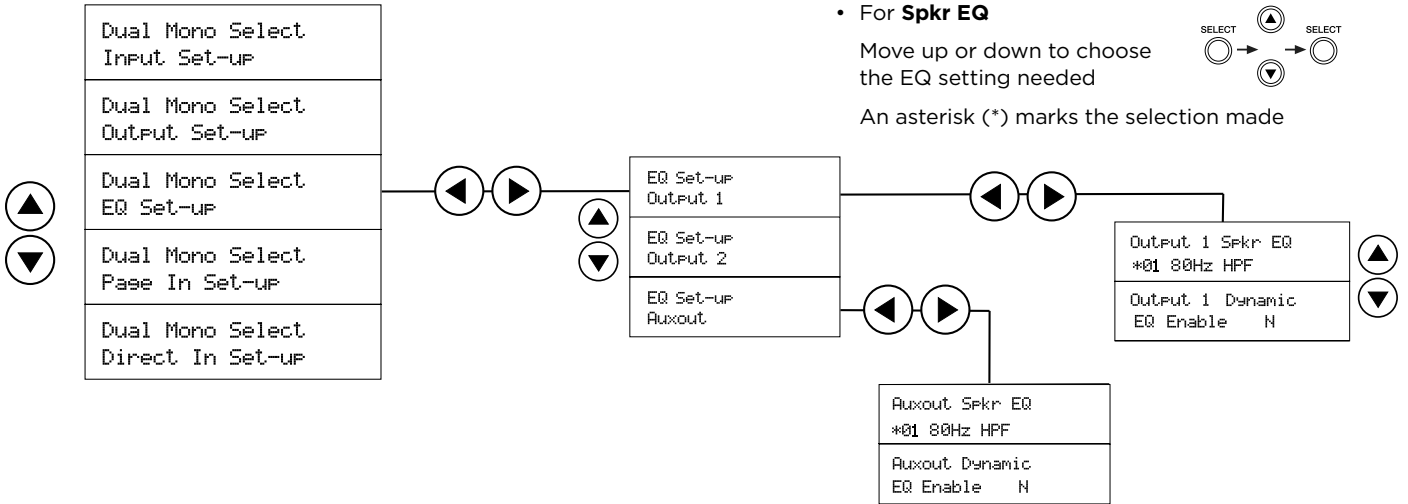


- For **Output Vol Lvl** Adjust the value to +/- 6 dB in increments of .5 dB
- For **Output Bass Lvl and Input Treb Lvl** Adjust the value to +/- 6 dB in increments of .5 dB
- For **Out 1 and 2 Input Sel** Selects which inputs are routed to the Aux output.
- For **Auxout Input Sel** Input TrackWP tracks to A/B switch on user interface.

Note: If TrackWP is selected and a user interface is installed, the input (A/B) selected on the user interface will be displayed.

D

Dual Mono Select EQ Set-up



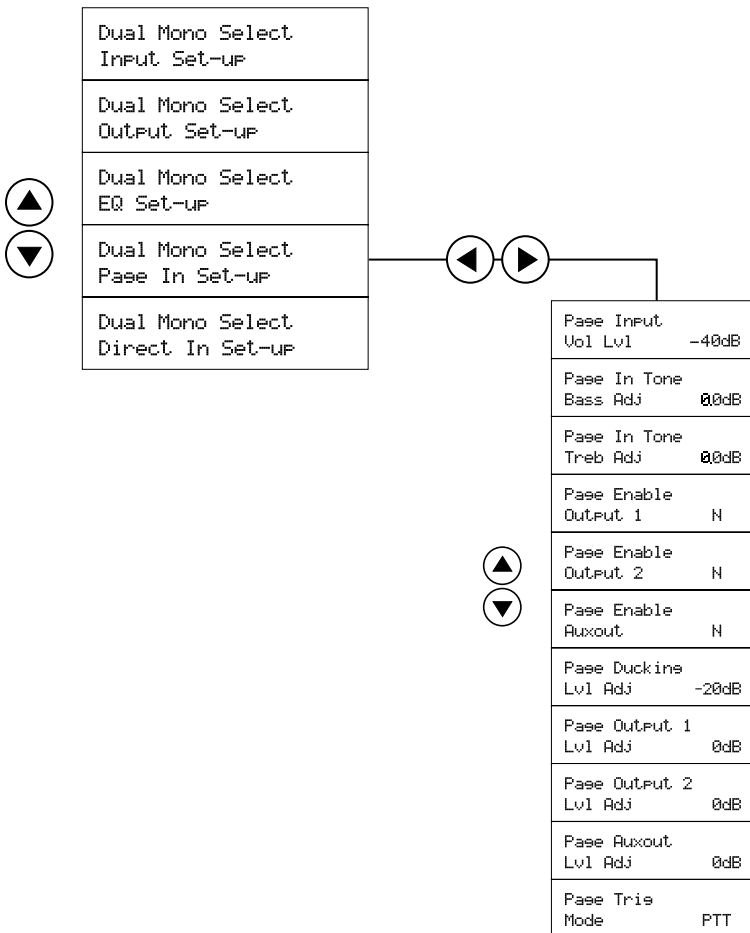
• For **Spkr EQ**
 Move up or down to choose the EQ setting needed
 An asterisk (*) marks the selection made

• For **Dynamic EQ Enable**
 Choose N (no) or Y (yes)

Note: Dynamic EQ maintains tonal balance at all listening levels. The equalization adjusts automatically for the output level setting.

E

Dual Mono Select Page In Set-up



• For **Page Vol Lvl**
 PAGE GAIN

• For **Page Bass Adj** and **Page Treb Adj**
 Adjust the value to +/- 6 dB in increments of .5 dB

• For **Page Enable**
 Choose N (no) or Y (yes)

• For **Page Ducking Lvl Adj**
 Adjust the value from -50 dB to 0 dB in increments of 1 dB

• For **Output Lvl Adj**
 Adjust the value to +/- 20 dB in increments of 1 dB

• For **Page Trig Mode**
 Choose PTT or Auto

Note: In Page Trig Mode, the page output can be triggered by pushing the button on a push-to-talk style microphone (PTT), or triggers automatically when a signal is detected at the Page input (Auto).

F

Dual Mono Select Direct in Set-up

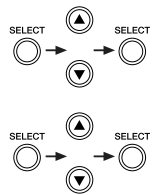
Dual Mono Select Input Set-up
Dual Mono Select Output Set-up
Dual Mono Select EQ Set-up
Dual Mono Select Phase In Set-up
Dual Mono Select Direct In Set-up



Direct In Vol Adj	0dB
Direct In Tone Bass Adj	00dB
Direct in Tone Treb Adj	00dB



- For **Vol Adj**
Adjust the value from -40 dB to +10 dB in increments of 1 dB
- For **Bass Adj** and **Treb Adj**
Adjust the value to +/- 6 dB in increments of .5 dB



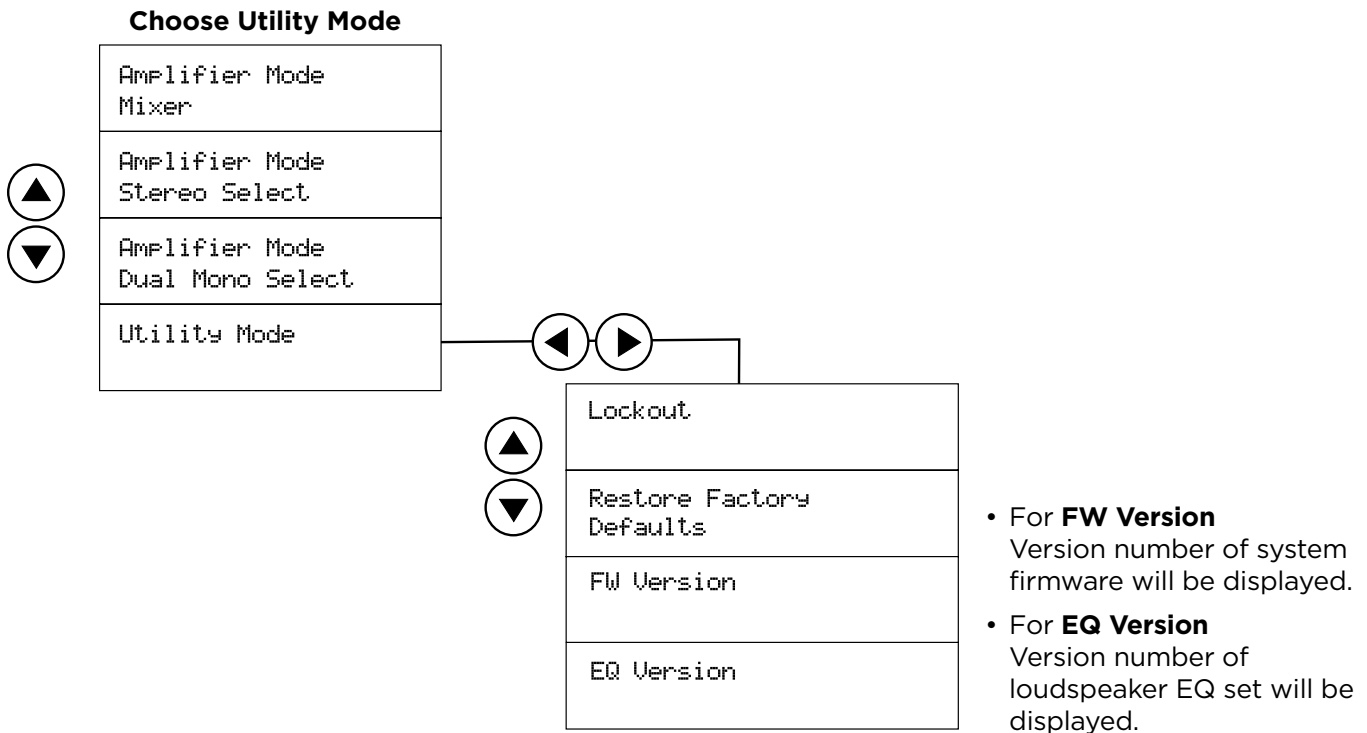
Overview of Utility Mode Settings

In Utility Mode, there are two global system options: Lockout and Restore Factory Defaults. Also, current system firmware and EQ versions are viewable.

The Lockout option allows the system settings to be locked to prevent unwanted changes. This Lockout function can be disengaged by pressing and holding the left and right arrows simultaneously for five seconds. Lockout Off will appear.

The Restore Factory Defaults option allows all software selectable settings to be set back to the original factory settings. See “Factory Default Settings” on page 52.

Note: Settings made using a control knob are not reset.



Troubleshooting

Problem	What to do
<ul style="list-style-type: none"> No power 	<ul style="list-style-type: none"> Turn on power. Make sure the power cord is plugged in.
<ul style="list-style-type: none"> Power is on, but no sound 	<ul style="list-style-type: none"> Make sure the source is turned on Verify that there is an input signal from the source. The audio input signal indicator on the front of the chassis should be green. Check the output signal indicators on the system controls. If the LED is not lit (green), the output levels may be too low. Check the source routing. Check the cable connections from the source to the chassis. Verify the user interfaces are of the right type for the operating mode selected.
<ul style="list-style-type: none"> Power is on, but sound is low 	<ul style="list-style-type: none"> Verify that the audio input indicator is lit (green). If it is not lit, increase the source output or increase the input gain.
<ul style="list-style-type: none"> Sound is distorted 	<ul style="list-style-type: none"> Verify that the Input clipping indicators are not lit (red). If an LED is red, reduce the source output level or reduce the input gain. Verify that the Output clipping indicators are not lit (red). If one is red, but Input clipping LEDs are not, reduce the output gain. If the input source signal is clean when it enters the chassis and the Input and Output indicators are green, verify that the loudspeakers are not overdriven or damaged.
<ul style="list-style-type: none"> Unnatural sound 	<ul style="list-style-type: none"> Verify that the correct EQ is selected for speakers connected to the Output channel. Verify that the speakers are wired correctly (+ to + and - to -).
<ul style="list-style-type: none"> User interfaces do not operate properly 	<ul style="list-style-type: none"> Verify that the user interfaces are wired correctly and to the proper zone (if there is more than one zone). Check the wiring for breaks or shorts in the cable. Verify the user interfaces are of the right type for the operating mode selected.

Additional Information

Refer to the owner's guide (online at pro.Bose.com) for more information about your product (including accessories and replacement parts). To request a printed copy, use the phone numbers provided.

Limited Warranty

Your product is covered by a limited warranty. Visit pro.Bose.com for warranty details.

The warranty information provided with this product does not apply in Australia and New Zealand. See our website at www.bose.com/au/warranty or www.bose.com/nz/warranty for details of the Australian and New Zealand warranty.

Date of Manufacture

The eighth digit in the serial number indicates the year of manufacture; "6" is 2006 or 2016.

Factory Default Settings

Channel	Parameter	Mixer	Stereo	Dual Mono	Parameter Range
Input 1	Bass	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	Treble	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	AGC Enable	N	N	N	
Input 2	Bass	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	Treble	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	AGC Enable	N	N	N	
Input 3	Bass	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	Treble	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	AGC Enable	N	N	N	
Input 4	Bass	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	Treble	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	AGC Enable	N	N	N	
Page Input	Bass	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	Treble	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	Trigger Mode	PTT	PTT	PTT	
	Page Ducking	-20 dB	-20 dB	-20 dB	-50 dB ~ 0 dB
Direct Input	Volume	0 dB	0 dB	0 dB	-40 dB ~ +10 dB
	Bass	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
	Treble	0 dB	0 dB	0 dB	-6 dB ~ +6 dB
Miscellaneous	Master Volume Linked	N			
Output 1	*Out 1/2 Input Sel (Stereo Only)				
	Out 1 Input Sel (Dual Mono only)			1	
	Input Mix - Input 1 (Mixer only)	Y			
	Input Mix - Input 2 (Mixer only)	N			
	Input Mix - Input 3 (Mixer only)	N			
	Input Mix - Input 4 (Mixer only)	N			
	Spkr EQ Preset	01 80 Hz HPF	01 80 Hz HPF	01 80 Hz HPF	
	Dynamic EQ Enable	N	N	N	
	Page Enable	N	N	N	
	Page Level	0 dB	0 dB	0 dB	-20 dB ~ +20 dB
Output 2	*Out 1/2 Input Sel (Stereo Only)		*1/2 (2)		
	Out 1 Input Sel (Dual Mono only)			3	
	Input Mix - Input 1 (Mixer only)	Y			
	Input Mix - Input 2 (Mixer only)	N			
	Input Mix - Input 3 (Mixer only)	N			
	Input Mix - Input 4 (Mixer only)	N			
	Spkr EQ Preset	01 80 Hz HPF	01 80 Hz HPF	01 80 Hz HPF	
	Dynamic EQ Enable	N	N	N	
	Page Enable	N	N	N	
	Page Level	0 dB	0 dB	0 dB	-20 dB ~ +20 dB
Auxout	Auxout Input Sel (Stereo/Dual Mono)		1+2 sum	1 Fixed	
	Auxout Input Mix - Input 1 (Mixer only)	Y			
	Auxout Input Mix - Input 2 (Mixer only)	N			
	Auxout Input Mix - Input 3 (Mixer only)	N			
	Auxout Input Mix - Input 4 (Mixer only)	N			
	Spkr EQ Preset	01 80 Hz HPF	01 80 Hz HPF	01 80 Hz HPF	
	Dynamic EQ Enable	N	N	N	
	Page Enable	N	N	N	
	Page Level	0 dB	0 dB	0 dB	-20 dB ~ +20 dB

*These parameters are linked and displayed on the same menu screen. The numbers in parenthesis indicate which input is automatically selected and routed to the respective output.

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