

2600

Semi-Modular Analog Synthesizer with 3 VCOs and Multi-Mode VCF in 8U Rack-Mount Format

EN

EN Important Safety Instructions

Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

**Caution**

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

**Caution**

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**Caution**

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

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 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 wide blade or the third prong are provided for your safety. If the provided plug does not fit into 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. Use only 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.

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. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product

should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.

19. Do not place naked flame sources, such as lighted candles, on the apparatus.

20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed of at a battery collection point.

21. This apparatus may be used in tropical and moderate climates up to 45°C.

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LIMITED WARRANTY

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ES Instrucciones de seguridad

Las terminales marcadas con este símbolo transportan corriente eléctrica de magnitud suficiente como para constituir un riesgo de descarga eléctrica. Utilice solo cables de altavoz profesionales y de alta calidad con conectores TS de 6,3 mm o de bayoneta prefijados. Cualquier otra instalación o modificación debe ser realizada únicamente por un técnico cualificado.



Este símbolo, siempre que aparece, le advierte de la presencia de voltaje peligroso sin aislar dentro de la caja; este voltaje puede ser suficiente para constituir un riesgo de descarga.



Este símbolo, siempre que aparece, le advierte sobre instrucciones operativas y de mantenimiento que aparecen en la documentación adjunta. Por favor, lea el manual.

**Atención**

Para reducir el riesgo de descarga eléctrica, no quite la tapa (o la parte posterior). No hay piezas en el interior del equipo que puedan ser reparadas por el usuario. Si es necesario, póngase en contacto con personal cualificado.

**Atención**

Para reducir el riesgo de incendio o descarga eléctrica, no exponga este aparato a la lluvia, humedad o alguna otra fuente que pueda salpicar o derramar algún líquido sobre el aparato. No coloque ningún tipo de recipiente para líquidos sobre el aparato.

**Atención**

Las instrucciones de servicio deben llevarlas a cabo exclusivamente personal cualificado. Para evitar el riesgo de una descarga eléctrica, no realice reparaciones que no se encuentren descritas en el manual de operaciones. Las reparaciones deben ser realizadas exclusivamente por personal cualificado.

1. Lea las instrucciones.
2. Conserve estas instrucciones.
3. Preste atención a todas las advertencias.
4. Siga todas las instrucciones.
5. No use este aparato cerca del agua.
6. Limpie este aparato con un paño seco.
7. No bloquee las aberturas de ventilación. Instale el equipo de acuerdo con las instrucciones del fabricante.

8. No instale este equipo cerca de fuentes de calor tales como radiadores, acumuladores de calor, estufas u otros aparatos (incluyendo amplificadores) que puedan producir calor.

9. No elimine o deshabilite nunca la conexión a tierra del aparato o del cable de alimentación de corriente. Un enchufe polarizado tiene dos polos, uno de los cuales tiene un contacto más ancho que el otro. Una clavija con puesta a tierra dispone de tres contactos: dos polos y la puesta a tierra. El contacto ancho y el tercer contacto, respectivamente, son los que garantizan una mayor seguridad. Si el enchufe suministrado con el equipo no concuerda con la toma de corriente, consulte con un electricista para cambiar la toma de corriente obsoleta.

10. Coloque el cable de suministro de energía de manera que no pueda ser pisado y que esté protegido de objetos afilados. Asegúrese de que el cable de suministro de energía esté protegido, especialmente en la zona de la clavija y en el punto donde sale del aparato.

11. Use únicamente los dispositivos o accesorios especificados por el fabricante.



12. Use únicamente la carretilla, plataforma, trípode, soporte o mesa especificados por el fabricante o suministrados junto con el equipo. Al transportar el equipo, tenga cuidado para evitar

daños y caídas al tropezar con algún obstáculo.

13. Desenchufe el equipo durante tormentas o si no va a utilizarlo durante un periodo largo.

14. Confíe las reparaciones únicamente a servicios técnicos cualificados. La unidad requiere mantenimiento siempre que haya sufrido algún daño, si el cable de suministro de energía o el enchufe presentaran daños, se hubiera derramado un líquido o hubieran caído objetos dentro del equipo, si el aparato hubiera estado expuesto a la humedad o la lluvia, si ha dejado de funcionar de manera normal o si ha sufrido algún golpe o caída.

15. Al conectar la unidad a la toma de corriente eléctrica asegúrese de que la conexión disponga de una unión a tierra.

16. Si el enchufe o conector de red sirve como único medio de desconexión, éste debe ser accesible fácilmente.



17. Cómo debe deshacerse de este aparato: Este símbolo indica que este aparato no debe ser tratado como basura orgánica, según lo indicado en la Directiva WEEE (2012/19/EU) y a las normativas aplicables en su país.

En lugar de ello deberá llevarlo al punto limpio más cercano para el reciclaje de sus elementos eléctricos / electrónicos (EEE). Al hacer esto estará ayudando a prevenir las posibles consecuencias negativas para el medio ambiente y la salud que podrían ser provocadas por una gestión inadecuada de este tipo de aparatos. Además, el reciclaje de materiales ayudará a conservar

los recursos naturales. Para más información acerca del reciclaje de este aparato, póngase en contacto con el Ayuntamiento de su ciudad o con el punto limpio local.

18. No instale esta unidad en un espacio muy reducido, tal como encastrada en una librería o similar.

19. No coloque objetos con llama, como una vela encendida, sobre este aparato.

20. Tenga presentes todas las advertencias relativas al reciclaje y correcta eliminación de las pilas. Las pilas deben ser siempre eliminadas en un punto limpio y nunca con el resto de la basura orgánica.

21. Puede usar este aparato en lugares con climas tropicales y moderados que soporten temperaturas de hasta 45°C.

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EN

ES

FR Consignes de sécurité



Les points repérés par ce symbole portent une tension électrique suffisante pour constituer un risque d'électrocution.

Utilisez uniquement des câbles d'enceintes professionnels de haute qualité avec fiches Jack mono 6,35 mm ou fiches à verrouillages déjà installées. Toute autre installation ou modification doit être effectuée uniquement par un personnel qualifié.



Ce symbole avertit de la présence d'une tension dangereuse et non isolée à l'intérieur de l'appareil - elle peut provoquer des chocs électriques.



Attention

Ce symbole signale les consignes d'utilisation et d'entre ! Tien importantes dans la documentation fournie. Lisez les consignes de sécurité du manuel d'utilisation de l'appareil.



Attention

Pour éviter tout risque de choc électrique, ne pas ouvrir le capot de l'appareil ni démonter le panneau arrière. L'intérieur de l'appareil ne possède aucun élément réparable par l'utilisateur. Laisser toute réparation à un professionnel qualifié.



Attention

Pour réduire les risques de feu et de choc électrique, n'exposez pas cet appareil à la pluie, à la moisissure, aux gouttes ou aux éclaboussures. Ne posez pas de récipient contenant un liquide sur l'appareil (un vase par exemple).



Attention

Ces consignes de sécurité et d'entretien sont destinées à un personnel qualifié. Pour éviter tout risque de choc électrique, n'effectuez aucune réparation sur l'appareil qui ne soit décrite par le manuel d'utilisation. Les éventuelles réparations doivent être effectuées uniquement par un technicien spécialisé.

1. Lisez ces consignes.
2. Conservez ces consignes.
3. Respectez tous les avertissements.
4. Respectez toutes les consignes d'utilisation.
5. N'utilisez jamais l'appareil à proximité d'un liquide.
6. Nettoyez l'appareil avec un chiffon sec.
7. Veillez à ne pas empêcher la bonne ventilation de l'appareil via ses ouïes de ventilation. Respectez les consignes du fabricant concernant l'installation de l'appareil.

8. Ne placez pas l'appareil à proximité d'une source de chaleur telle qu'un chauffage, une cuisinière ou tout appareil dégageant de la chaleur (y compris un ampli de puissance).

9. Ne supprimez jamais la sécurité des prises bipolaires ou des prises terre. Les prises bipolaires possèdent deux contacts de largeur différente. Le plus large est le contact de sécurité. Les prises terre possèdent deux contacts plus une mise à la terre servant de sécurité. Si la prise du bloc d'alimentation ou du cordon d'alimentation fourni ne correspond pas à celles de votre installation électrique, faites appel à un électricien pour effectuer le changement de prise.

10. Installez le cordon d'alimentation de telle façon que personne ne puisse marcher dessus et qu'il soit protégé d'arêtes coupantes. Assurez-vous que le cordon d'alimentation est suffisamment protégé, notamment au niveau de sa prise électrique et de l'endroit où il est relié à l'appareil; cela est également valable pour une éventuelle rallonge électrique.

11. Utilisez exclusivement des accessoires et des appareils supplémentaires recommandés par le fabricant.



12. Utilisez exclusivement des chariots, des diables, des présentoirs, des pieds et des surfaces de travail recommandés par le fabricant ou livrés avec le produit.

Déplacez précautionneusement tout chariot ou diable chargé pour éviter d'éventuelles blessures en cas de chute.

13. Débranchez l'appareil de la tension secteur en cas d'orage ou si l'appareil reste inutilisé pendant une longue période de temps.

14. Les travaux d'entretien de l'appareil doivent être effectués uniquement par du personnel qualifié. Aucun entretien n'est nécessaire sauf si l'appareil est endommagé de quelque façon que ce soit (dommages sur le cordon d'alimentation ou la prise par exemple), si un liquide ou un objet a pénétré à l'intérieur du châssis, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas correctement ou à la suite d'une chute.

15. L'appareil doit être connecté à une prise secteur dotée d'une protection par mise à la terre.

16. La prise électrique ou la prise IEC de tout appareil dénué de bouton marche/arrêt doit rester accessible en permanence.



17. Mise au rebut appropriée de ce produit: Ce symbole indique qu'en accord avec la directive DEEE (2012/19/EU) et les lois en vigueur dans votre pays, ce produit ne doit pas être jeté avec les déchets ménagers. Ce produit doit être

déposé dans un point de collecte agréé pour le recyclage des déchets d'équipements électriques et électroniques (EEE). Une mauvaise manipulation de ce type de déchets pourrait avoir un impact négatif sur l'environnement et la santé à cause des substances potentiellement

dangereuses généralement associées à ces équipements. En même temps, votre coopération dans la mise au rebut de ce produit contribuera à l'utilisation efficace des ressources naturelles. Pour plus d'informations sur l'endroit où vous pouvez déposer vos déchets d'équipements pour le recyclage, veuillez contacter votre mairie ou votre centre local de collecte des déchets.

18. N'installez pas l'appareil dans un espace confiné tel qu'une bibliothèque ou meuble similaire.

19. Ne placez jamais d'objets enflammés, tels que des bougies allumées, sur l'appareil.

20. Gardez à l'esprit l'impact environnemental lorsque vous mettez des piles au rebut. Les piles usées doivent être déposées dans un point de collecte adapté.

21. Cet appareil peut être utilisé sous un climat tropical ou modéré avec des températures de 45°C maximum.

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DE Wichtige Sicherheitshinweise



Vorsicht

Die mit dem Symbol markierten Anschlüsse führen so viel Spannung, dass die Gefahr eines Stromschlags besteht. Verwenden Sie nur hochwertige, professionelle Lautsprecherkabel mit vorinstallierten 6,35 mm MONO-Klinkensteckern oder Lautsprecherstecker mit Drehverriegelung. Alle anderen Installationen oder Modifikationen sollten nur von qualifiziertem Fachpersonal ausgeführt werden.



Achtung

Um eine Gefährdung durch Stromschlag auszuschließen, darf die Geräteabdeckung bzw. Geräterückwand nicht abgenommen werden. Im Innern des Geräts befinden sich keine vom Benutzer reparierbaren Teile. Reparaturarbeiten dürfen nur von qualifiziertem Personal ausgeführt werden.



Achtung

Um eine Gefährdung durch Feuer bzw. Stromschlag auszuschließen, darf dieses Gerät weder Regen oder Feuchtigkeit ausgesetzt werden noch sollten Spritzwasser oder tropfende Flüssigkeiten in das Gerät gelangen können. Stellen Sie keine mit Flüssigkeit gefüllten Gegenstände, wie z. B. Vasen, auf das Gerät.



Achtung

Die Service-Hinweise sind nur durch qualifiziertes Personal zu befolgen. Um eine Gefährdung durch Stromschlag zu vermeiden, führen Sie bitte keinerlei Reparaturen an dem Gerät durch, die nicht in der Bedienungsanleitung beschrieben sind. Reparaturen sind nur von qualifiziertem Fachpersonal durchzuführen.

1. Lesen Sie diese Hinweise.
2. Bewahren Sie diese Hinweise auf.
3. Beachten Sie alle Warnhinweise.
4. Befolgen Sie alle Bedienungshinweise.
5. Betreiben Sie das Gerät nicht in der Nähe von Wasser.
6. Reinigen Sie das Gerät mit einem trockenen Tuch.
7. Blockieren Sie nicht die Belüftungsschlitze. Beachten Sie beim Einbau des Gerätes die Herstellerhinweise.
8. Stellen Sie das Gerät nicht in der Nähe von Wärmequellen auf. Solche Wärmequellen sind z. B. Heizkörper, Herde oder andere Wärme erzeugende Geräte (auch Verstärker).
9. Entfernen Sie in keinem Fall die Sicherheitsvorrichtung von Zweipol- oder geerdeten Steckern. Ein Zweipolstecker hat zwei unterschiedlich breite Steckkontakte. Ein geerdeter Stecker hat zwei Steckkontakte und einen dritten Erdungskontakt. Der breitere Steckkontakt oder der zusätzliche

Erdungskontakt dient Ihrer Sicherheit. Falls das mitgelieferte Steckerformat nicht zu Ihrer Steckdose passt, wenden Sie sich bitte an einen Elektriker, damit die Steckdose entsprechend ausgetauscht wird.

10. Verlegen Sie das Netzkabel so, dass es vor Tritten und scharfen Kanten geschützt ist und nicht beschädigt werden kann. Achten Sie bitte insbesondere im Bereich der Stecker, Verlängerungskabel und an der Stelle, an der das Netzkabel das Gerät verlässt, auf ausreichenden Schutz.

11. Das Gerät muss jederzeit mit intaktem Schutzleiter an das Stromnetz angeschlossen sein.

12. Sollte der Hauptnetzstecker oder eine Gerätesteckdose die Funktionseinheit zum Abschalten sein, muss diese immer zugänglich sein.

13. Verwenden Sie nur Zusatzgeräte/Zubehörteile, die laut Hersteller geeignet sind.



14. Verwenden Sie nur Wagen, Standvorrichtungen, Stative, Halter oder Tische, die vom Hersteller benannt oder im Lieferumfang des Geräts enthalten sind. Falls Sie einen

Wagen benutzen, seien Sie vorsichtig beim Bewegen der Wagen-Gerätkombination, um Verletzungen durch Stolpern zu vermeiden.

15. Ziehen Sie den Netzstecker bei Gewitter oder wenn Sie das Gerät längere Zeit nicht benutzen.

16. Lassen Sie alle Wartungsarbeiten nur von qualifiziertem Service-Personal ausführen. Eine Wartung ist notwendig, wenn das Gerät in irgendeiner Weise beschädigt wurde (z. B. Beschädigung des Netzkabels oder Steckers), Gegenstände oder Flüssigkeit in das Geräterinnere gelangt sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, das Gerät nicht ordnungsgemäß funktioniert oder auf den Boden gefallen ist.



17. Korrekte Entsorgung dieses Produkts: Dieses Symbol weist darauf hin, das Produkt entsprechend der WEEE Richtlinie (2012/19/EU) und der jeweiligen nationalen Gesetze nicht zusammen mit

Ihren Haushaltsabfällen zu entsorgen. Dieses Produkt sollte bei einer autorisierten Sammelstelle für Recycling elektrischer und elektronischer Geräte (EEE) abgegeben werden. Wegen bedenkllicher Substanzen, die generell mit elektrischen und elektronischen Geräten in Verbindung stehen, könnte eine unsachgemäße Behandlung dieser Abfallart eine negative Auswirkung auf Umwelt und Gesundheit haben. Gleichzeitig gewährleistet Ihr Beitrag zur richtigen Entsorgung dieses Produkts die effektive Nutzung natürlicher Ressourcen. Für weitere Informationen zur Entsorgung Ihrer Geräte bei einer Recycling-Stelle nehmen Sie bitte Kontakt zum zuständigen städtischen Büro, Entsorgungsamt oder zu Ihrem Haushaltsabfallentsorger auf.

18. Installieren Sie das Gerät nicht in einer beengten Umgebung, zum Beispiel Bücherregal oder ähnliches.

19. Stellen Sie keine Gegenstände mit offenen Flammen, etwa brennende Kerzen, auf das Gerät.

20. Beachten Sie bei der Entsorgung von Batterien den Umweltschutz-Aspekt. Batterien müssen bei einer Batterie-Sammelstelle entsorgt werden.

21. Dieses Gerät ist in tropischen und gemäßigten Klimazonen bis 45° C einsetzbar.

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PT Instruções de Segurança Importantes



Aviso!

Terminais marcados com o símbolo carregam corrente elétrica de magnitude suficiente para constituir um risco de choque elétrico. Use apenas cabos de alto-falantes de alta qualidade com plugues TS de ¼" ou plugues com trava de torção pré-instalados. Todas as outras instalações e modificações devem ser efetuadas por pessoas qualificadas.



Este símbolo, onde quer que o encontre, alerta-o para a leitura das instruções de manuseamento que acompanham o equipamento. Por favor leia o manual de instruções.



Atenção

De forma a diminuir o risco de choque elétrico, não remover a cobertura (ou a secção de trás). Não existem peças substituíveis por parte do utilizador no seu interior. Para esse efeito recorrer a um técnico qualificado.



Atenção

Para reduzir o risco de incêndios ou choques elétricos o aparelho não deve ser exposto à chuva nem à humidade. Além disso, não deve ser sujeito a salpicos, nem devem ser colocados em cima do aparelho objectos contendo líquidos, tais como jarras.



Atenção

Estas instruções de operação devem ser utilizadas, em exclusivo, por técnicos de assistência qualificados. Para evitar choques elétricos não proceda a reparações ou intervenções, que não as indicadas nas instruções de operação, salvo se possuir as qualificações necessárias. Para evitar choques elétricos não proceda a reparações ou intervenções, que não as indicadas nas instruções de operação. Só o deverá fazer se possuir as qualificações necessárias.

1. Leia estas instruções.
2. Guarde estas instruções.
3. Preste atenção a todos os avisos.
4. Siga todas as instruções.
5. Não utilize este dispositivo perto de água.
6. Limpe apenas com um pano seco.
7. Não obstrua as entradas de ventilação. Instale de acordo com as instruções do fabricante.
8. Não instale perto de quaisquer fontes de calor tais como radiadores, bocas de ar quente, fogões de sala ou outros aparelhos (incluindo amplificadores) que produzam calor.
9. Não anule o objectivo de segurança das fichas polarizadas ou do tipo de ligação à terra. Uma ficha polarizada dispõe de duas palhetas sendo uma mais larga do que a outra. Uma ficha do tipo ligação à terra dispõe

de duas palhetas e um terceiro dente de ligação à terra. A palheta larga ou o terceiro dente são fornecidos para sua segurança. Se a ficha fornecida não encaixar na sua tomada, consulte um electricista para a substituição da tomada obsoleta.

10. Proteja o cabo de alimentação de pisadelas ou apertos, especialmente nas fichas, extensões, e no local de saída da unidade. Certifique-se de que o cabo eléctrico está protegido. Verifique particularmente nas fichas, nos receptáculos e no ponto em que o cabo sai do aparelho.
11. O aparelho tem de estar sempre conectado à rede eléctrica com o condutor de protecção intacto.
12. Se utilizar uma ficha de rede principal ou uma tomada de aparelhos para desligar a unidade de funcionamento, esta deve estar sempre acessível.
13. Utilize apenas ligações/acessórios especificados pelo fabricante.



14. Utilize apenas com o carrinho, estrutura, tripé, suporte, ou mesa especificados pelo fabricante ou vendidos com o dispositivo. Quando utilizar um carrinho, tenha cuidado ao

mover o conjunto carrinho/dispositivo para evitar danos provocados pela terpidação.

15. Desligue este dispositivo durante as trovoadas ou quando não for utilizado durante longos períodos de tempo.

16. Qualquer tipo de reparação deve ser sempre efectuado por pessoal qualificado. É necessária uma reparação sempre que a unidade tiver sido de alguma forma danificada, como por exemplo: no caso do cabo de alimentação ou ficha se encontrarem danificados; na eventualidade de líquido ter sido derramado ou objectos terem caído para dentro do dispositivo; no caso da unidade ter estado exposta à chuva ou à humidade; se esta não funcionar normalmente, ou se tiver caído.



17. Correcta eliminação deste produto: este símbolo indica que o produto não deve ser eliminado juntamente com os resíduos domésticos, segundo a Directiva REEE (2012/19/EU) e a legislação nacional. Este produto deverá

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18. Não instale em lugares confinados, tais como estantes ou unidades similares.

19. Não coloque fontes de chama, tais como velas acesas, sobre o aparelho.

20. Favor, obedecer os aspectos ambientais de descarte de bateria. Baterias devem ser descartadas em um ponto de coletas de baterias.

21. Esse aparelho pode ser usado em climas tropicais e moderados até 45°C.

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IT Informazioni importanti



Attenzione

I terminali contrassegnati da questo simbolo conducono una corrente elettrica di magnitudine sufficiente a costituire un rischio di scossa elettrica. Utilizzare solo cavi per altoparlanti professionali di alta qualità con jack sbilanciati da 6,35mm. o connettori con blocco a rotazione. Tutte le altre installazioni o modifiche devono essere eseguite esclusivamente da personale qualificato.



Attenzione

Questo simbolo, ovunque appaia, avverte della presenza di una tensione pericolosa non isolata all'interno dello chassis, tensione che può essere sufficiente per costituire un rischio di scossa elettrica.



Attenzione

Questo simbolo, ovunque appaia, segnala importanti istruzioni operative e di manutenzione nella documentazione allegata. Si invita a leggere il manuale.



Attenzione

Per ridurre il rischio di scosse elettriche, non rimuovere il coperchio superiore (o la sezione posteriore). All'interno non ci sono parti riparabili dall'utente. Per la manutenzione rivolgersi a personale qualificato.



Attenzione

Per ridurre il rischio di incendi o scosse elettriche, non esporre questo apparecchio a pioggia e umidità. L'apparecchio non deve essere esposto a gocciolio o schizzi di liquidi e nessun oggetto contenente liquidi, come vasi, deve essere collocato sull'apparecchio.



Attenzione

Queste istruzioni di servizio sono destinate esclusivamente a personale qualificato. Per ridurre il rischio di scosse elettriche non eseguire interventi di manutenzione diversi da quelli contenuti nel manuale di istruzioni. Le riparazioni devono essere eseguite da personale di assistenza qualificato.

1. Leggere queste istruzioni.
2. Conservare queste istruzioni.
3. Prestare attenzione a tutti gli avvisi.
4. Applicare tutte le istruzioni.
5. Non utilizzare questo dispositivo vicino l'acqua.
6. Pulire esclusivamente con un panno asciutto.
7. Non bloccare le aperture di ventilazione. Installare in conformità con le istruzioni del produttore.
8. Non installare vicino a fonti di calore come radiatori, termoregolatori, stufe o altri apparecchi (inclusi amplificatori) che producono calore.

9. Non escludere la sicurezza fornita dalla spina polarizzata o con messa a terra. Una spina polarizzata ha due lame, una più larga dell'altra. Una spina con messa a terra ha due lame e un terzo polo di messa a terra. La lama larga o il terzo polo sono forniti per la vostra sicurezza. Se la spina fornita non si adatta alla presa, consultare un elettricista per la sostituzione della presa obsoleta.

10. Proteggere il cavo di alimentazione dal calpestio o essere schiacciato in particolare alle spine, prese di corrente e il punto in cui esce dall'apparecchio.

11. Utilizzare esclusivamente dispositivi/accessori specificati dal produttore.



12. Utilizzare solo carrelli, supporti, treppiedi, staffe o tavoli indicati dal produttore o venduti con l'apparecchio. Utilizzando un carrello, prestare attenzione quando si sposta la combinazione

carrello/apparecchio per evitare lesioni dovute al ribaltamento.

13. Scollegare questo apparecchio durante i temporali o se non è utilizzato per lunghi periodi di tempo.

14. Per tutte le riparazioni rivolgersi a personale qualificato. La manutenzione è necessaria quando l'apparecchio è danneggiato in qualsiasi modo, come danneggiamento del cavo di alimentazione o della spina, versamento di liquido o oggetti caduti nell'apparecchio, se l'apparecchio è stato esposto a pioggia o umidità, se non funziona normalmente o è caduto.

15. L'apparecchio deve essere collegato a una presa di corrente elettrica con messa a terra di protezione.

16. Se la spina o una presa del dispositivo è utilizzata come dispositivo di disconnessione, deve essere facilmente utilizzabile.



17. Smaltimento corretto di questo prodotto: questo simbolo indica che questo dispositivo non deve essere smaltito insieme ai rifiuti domestici, secondo la Direttiva RAEE (2012/19/UE) e la vostra legislazione

nazionale. Questo prodotto deve essere portato in un centro di raccolta autorizzato per il riciclaggio di rifiuti di apparecchiature elettriche ed elettroniche (RAEE). La cattiva gestione di questo tipo di rifiuti potrebbe avere un possibile impatto negativo sull'ambiente e sulla salute umana a causa di sostanze potenzialmente pericolose che sono generalmente associate alle apparecchiature elettriche ed elettroniche. Nello stesso tempo la vostra collaborazione al corretto smaltimento di questo prodotto contribuirà all'utilizzo efficiente delle risorse naturali. Per ulteriori informazioni su dove è possibile trasportare le apparecchiature per il riciclaggio vi invitiamo a contattare l'ufficio comunale locale o il servizio di raccolta dei rifiuti domestici.

18. Non installare in uno spazio ristretto, come in una libreria o in una struttura simile.

19. Non collocare sul dispositivo fonti di fiamme libere, come candele accese.

20. Per lo smaltimento delle batterie, tenere in considerazione gli aspetti ambientali. Le batterie devono essere smaltite in un punto di raccolta delle batterie esauste.

21. Questo apparecchio può essere usato in climi tropicali e temperati fino a 45°C.

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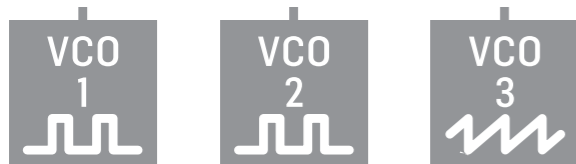
2600 Controls

EN Step 1: Controls

Pre-Wired Connections

The panel silk-screening displays the various connections between modules that have been pre-wired at the factory.

For example, in the VOLTAGE CONTROLLED FILTER/RESONATOR VCF section, pre-wired connections from Voltage Controlled Oscillators 1, 2 and 3 into the VCF block are indicated by the labeled boxes at the bottom of the section:



These labeled, pre-wired inputs correspond to sliders on the panel directly above the label, which enables adjustment of the incoming signal strength.

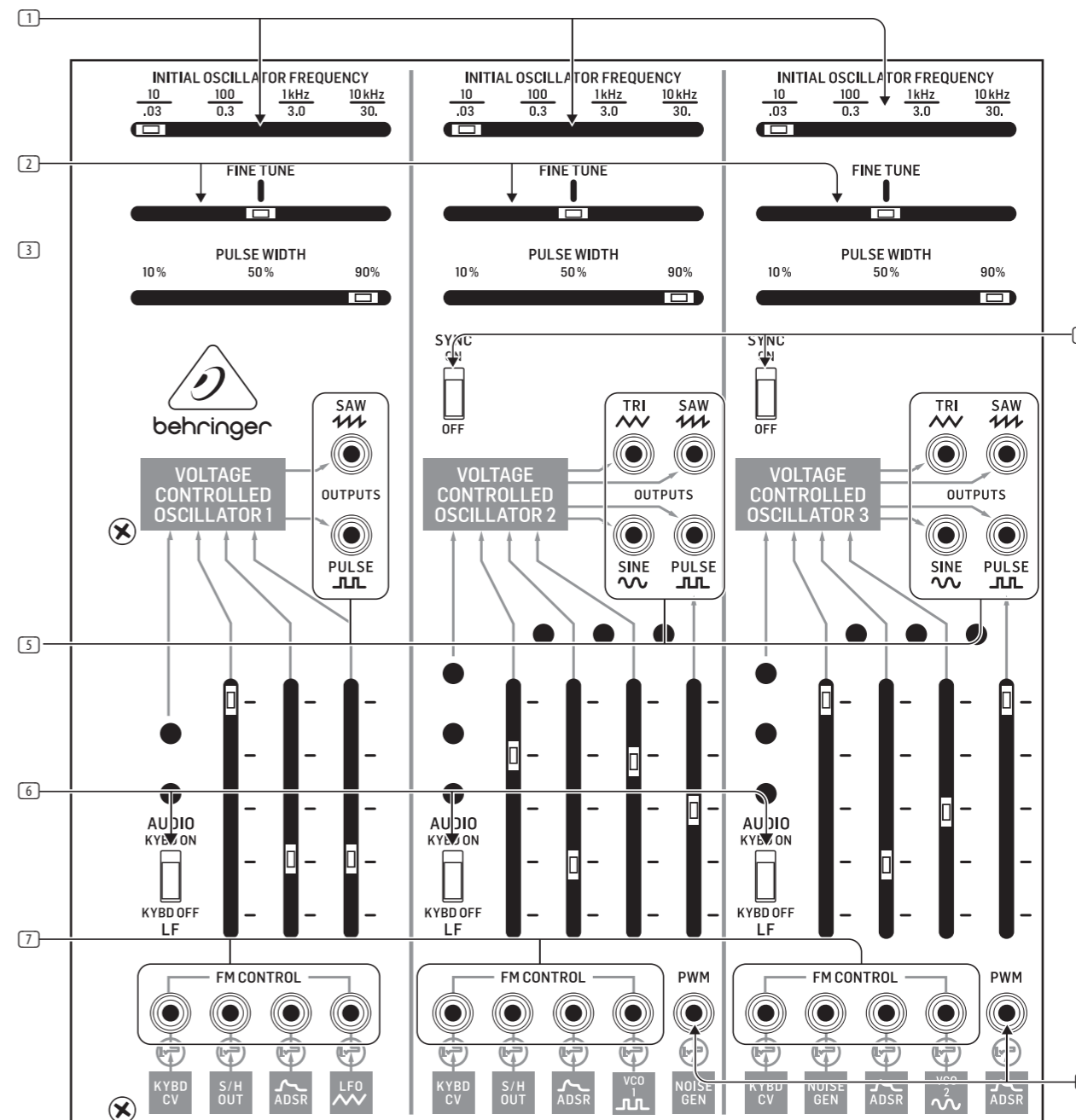
The input jacks directly above each labeled box disconnects the pre-wired connection whenever a 3.5 mm connector is placed into the jack, as indicated by this graphic:



Voltage Controlled Oscillators (VCOs)

The Voltage Controlled Oscillators (VCOs) electronically generate repeating wave signals, in a variety of waveforms that can then be shaped, combined and filtered

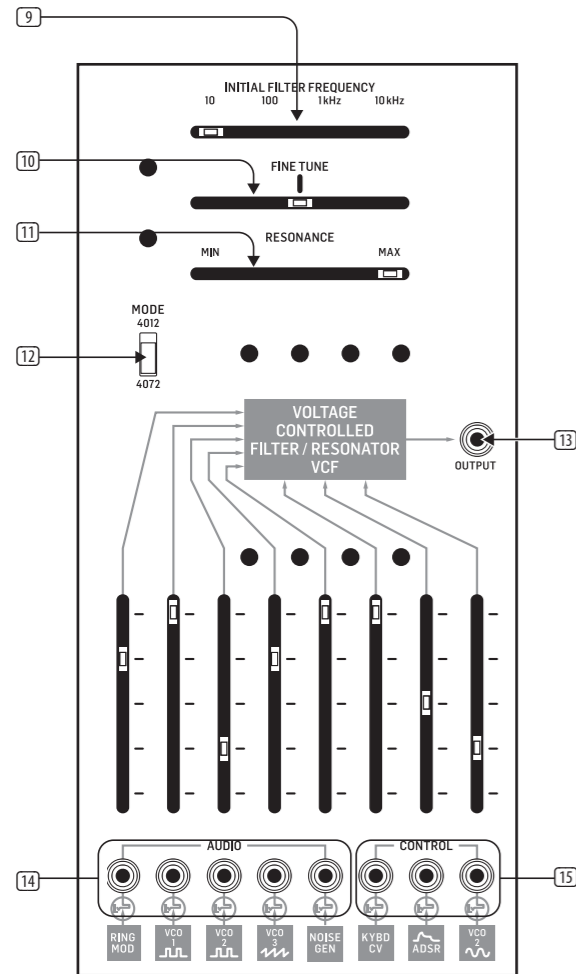
- 1 **INITIAL OSCILLATOR FREQUENCY** – This slider chooses a VCO's coarse operating frequency in four ranges for audio (10 Hz, 100 Hz, 1 kHz or 10 kHz) or four sub-audio frequency ranges (.03 Hz, .3 Hz, 3.0 Hz or 30 Hz) when the VCO operates as a Low Frequency Oscillator (LFO). To choose between audio and LFO modes, use the AUDIO/LF sliding switch in the lower left of each VCO.
- 2 **FINE TUNE** – Use this slider to tune the frequency chosen by the INITIAL OSCILLATOR FREQUENCY slider up or down as needed to find the precise frequency you need.
- 3 **PULSE WIDTH** – Use this slider to set a default width for the waveform.
- 4 **SYNC ON/OFF** – Use these sliding switches to lock VCO2 and/or VCO3 with VCO1 so that the synced oscillators act as a single large oscillator that follows the frequency of VCO1 to produce complex sounds.
- 5 **OUTPUTS** – These output jacks allow you to send out either audio or LFO signals from the VCOs via cables with 3.5 mm connectors. The type of waveform is indicated by the silk-screening associated with the jacks (sawtooth, pulse, sine, triangle, and so on, depending on the specific VCO in use). The PULSE outputs can also be used to mix in signals from the lower LFO section (VCO1), the NOISE GENERATOR section (VCO2), or the ADSR ENVELOPE GENERATOR (VCO3) to produce a composite output signal.
- 6 **AUDIO/LF (KYBD ON/OFF)** – This sliding switch chooses between audio and low (LFO) frequencies for adjustment with the INITIAL OSCILLATOR FREQUENCY, FINE TUNE and PULSE WIDTH sliders. When using the VCO as a Low Frequency Oscillator, keyboard control is automatically disabled. In the AUDIO position, keyboard control is enabled.
- 7 **FM CONTROL** – Use these inputs to route in external control voltage signals via cables with 3.5 mm connectors. Placing a connector into one of these jacks disconnects the corresponding pre-wired connection indicated directly below the jack.
- 8 **PWM** – Use this input when you want to route in external control voltages to control the pulse width in place of the PULSE WIDTH slider.



2600 Controls

Voltage Controlled Filter (VCF)/Resonator Section

The VOLTAGE CONTROLLED FILTER (VCF)/RESONATOR uses a low-pass filter with a variable cutoff frequency (FC) and resonance (Q). The VCF can be controlled by panel controls or by voltage control signals.



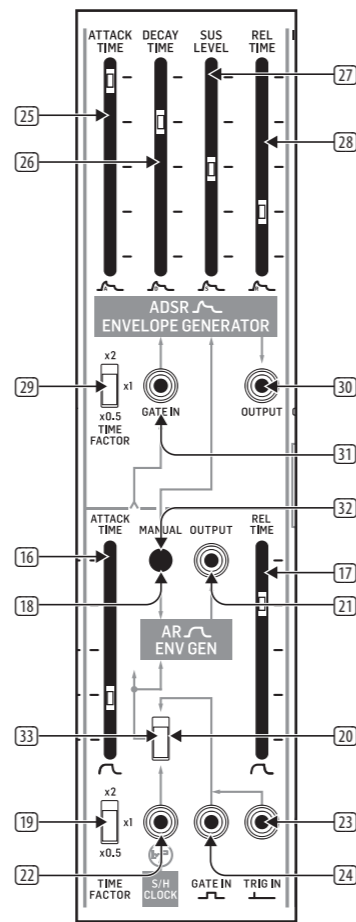
- 9 INITIAL FILTER FREQUENCY** – This slider sets the low-pass filter to four coarse frequency points at 10 Hz, 100 Hz, 1 kHz and 10 kHz, which can then be adjusted via the FINE TUNE slider.
- 10 FINE TUNE** – Use this slider to make further adjustments up or down from the filter cutoff point set by the INITIAL FILTER FREQUENCY slider.
- 11 RESONANCE** – Use this slider adjusts the filter’s Q setting. At the MAX setting, the frequency curve below the filter cutoff becomes a sharp and the filter will ring in response to sharp pulses that pass through the filter.
- 12 MODE (4012/4072)** – This sliding switch chooses between two classic filter circuits, the 4012 filter (the original filter design with a 16 Hz maximum cutoff frequency) and the 4072 filter (which had a lower maximum cutoff frequency at 11 Hz).
- 13 OUTPUTS** – This jack allows you to route out the VCF output for use in other areas of the synthesizer via a cable with a 3.5 mm connector.
- 14 AUDIO** – These inputs allow you to route in audio signals via cables with 3.5 mm connectors. Each of these inputs breaks the pre-wired connection when a connector is inserted into the jack.

- 15 CONTROL** – Use these inputs for external control voltage signals via cables with 3.5 mm connectors. Each of these inputs breaks the pre-wired connection when a connector is inserted into the jack.

AR/ADSR Envelope Generator Section

These two envelope generators produce controllable, transient waveforms for use mainly with the Voltage Controlled Filter (VCF) and the Voltage Controlled Amplifier (VCA).

The AR (Attack-Release) transient generator creates an adjustable transient envelope every time the generator is activated by a gate or trigger voltage. The voltage transient is shaped by the ATTACK TIME and RELEASE TIME sliders, and the AR transient envelope is available at all pre-wired connections with this label:



- 16 ATTACK TIME** – This slider controls the shape of the note attack up to an initial fixed peak when a key is depressed or a gate/trigger control voltage enters the circuit.
- 17 RELEASE TIME** – Use this slider to control the envelope shape following the key release or release of the gate/trigger voltage.

- 18 MANUAL** – Press this button to manually produce a gate signal to trigger both the AR and ADSR circuits.
- 19 TIME FACTOR (x2/x1/x0.5)** – Use this sliding switch to choose between three basic time durations for the overall length of the envelope.
- 20 ROUTING SWITCH** – Use this sliding switch to choose between the S/H CLOCK pre-wired connection, the GATE IN input or the TRIG IN input. The signal chosen at this switch is also routed through to the ADSR generator.
- 21 OUTPUT** – Use this jack to send out an additional AR voltage envelope for use where a pre-wired AR connection is not available.
- 22 S&H CLOCK** – This input allows you to substitute another external signal for the Sample & Hold circuit’s output via a cable with a 3.5 mm connector.
- 23 TRIG IN** – This input jack allows you to route in a trigger voltage via a cable with a 3.5 mm connector.
- 24 GATE IN** – This input jack allows you to route in a gate voltage into the AR and ADSR circuits via a cable with a 3.5 mm connector.

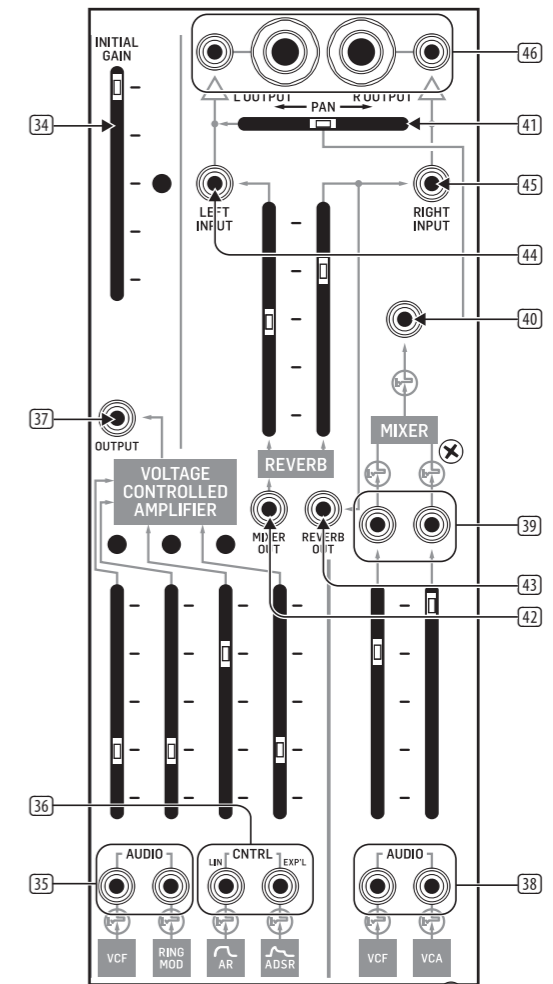
The ADSR (Attack-Decay-Sustain-Release) transient generator works similarly to the AR generator, but this circuit creates a more detailed voltage transient every time the generator is triggered by a gate or trigger voltage. The voltage transient is shaped by the ATTACK TIME, DECAY TIME, SUS LEVEL and REL TIME sliders, and the ADSR voltage transient is available at all pre-wired connections with this label:



- 25 ATTACK TIME** – This slider controls the shape of the note attack up to an initial fixed peak when a key is depressed a gate/trigger control voltage enters the circuit.
- 26 DECAY TIME** – Use this slider to control how quickly the envelope drops from the initial fixed peak.
- 27 SUS LEVEL** – This slider controls the level at which the envelope holds after the initial decay following the fixed peak.
- 28 REL TIME** – Use this slider to control the envelope shape following the key release or release of the gate/trigger control voltage.
- 29 TIME FACTOR (x2/x1/x0.5)** – Use this sliding switch to choose between three basic time durations for the overall length of the envelope.
- 30 OUTPUT** – Use this jack to send out an additional ADSR voltage envelope for use where a pre-wired ADSR connection is not available.
- 31 GATE IN** – Use this jack to route in a gate signal via a cable with a 3.5 mm connector.
- 32 MANUAL** – Press this button to manually produce a gate signal to trigger both the AR and ADSR circuits.
- 33 ROUTING SWITCH** – Use this sliding switch to choose between the S/H CLOCK pre-wired connection, the GATE IN input or the TRIG IN input. The signal chosen at this switch is also routed through to the ADSR generator.

Voltage Controlled Amplifier Section

The Voltage Controlled Amplifier (VCA) offers further tone-shaping possibilities in parallel with the Voltage Controlled Filter (VCF) before both are blended in the Mixer section. At maximum gain, the VCA passes signals through at unity gain. At minimum gain, the VCA circuit will not pass a signal.



- 34 INITIAL GAIN** – This slider sets the overall gain for the VCA circuit.
- 35 AUDIO** – Use these inputs to route audio signals into the VCA and adjust the signal gain using the slider immediately above the inputs. Inserting the 3.5 mm connectors into the jacks will disable the pre-wired VCF and RING MOD connections.
- 36 CNTRL (LIN/EXPL)** – These inputs can accept control voltage signals via cables with 3.5 mm connectors. The left input has a linear response, while the right input features an exponential response. Inserting 3.5 mm connectors into these jacks will disable the pre-wired AR and ADSR connections.
- 37 OUTPUT** – Use this output to route the final VCA signal out for use where a pre-wired VCA signal is not available.

2600 Controls

EN

Mixer/Reverb Section

The Mixer section accepts two inputs that are balanced via the two sliders and then summed into a single signal. After being summed, the combined signal can then be panned before going to the stereo outputs. The Mixer section is pre-wired with inputs from the VCF and VCA.

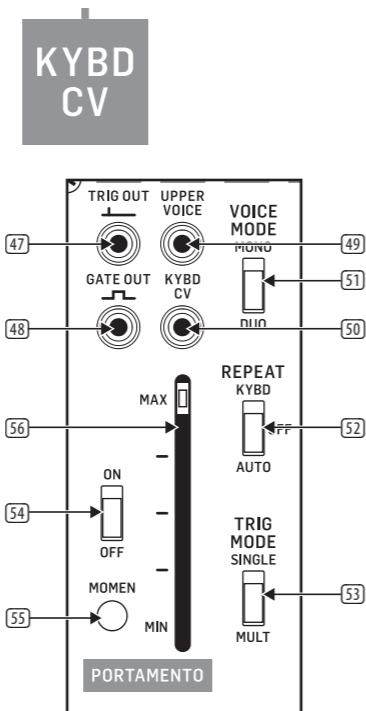
NOTE: 2600 uses a digital reverb, while BLUE MARVIN features a real, on-board spring reverb.

- 38 **AUDIO** – Use these two inputs to route audio signals into the Mixer via cables with 3.5 mm connectors. Inserting 3.5 mm connectors into these jacks will disable the pre-wired VCF and VCA connections.
- 39 **POST-ATTENUATOR OUTPUTS** – These two outputs allow you to send signals out immediately following the attenuator sliders, which means the sliders can be used to attenuate audio or control voltage signals for use elsewhere.
- 40 **POST-MIXER OUTPUT** – This input breaks the signal connection from the Mixer to the PAN slider when a 3.5 mm connector is inserted. Use this input to route in an outside signal for use by the PAN slider. The Mixer output still goes to the Reverb circuit via a pre-wired connection.
- 41 **PAN** – Use this slider to place the summed Mixer signal where desired in the left-right stereo field before final output.
- 42 **MIXER OUT** – This output is an additional Mixer output that taps the pre-wired Mixer connection which feeds into the Reverb circuit.
- 43 **REVERB OUT** – This output taps the right Reverb signal for use elsewhere.
- 44 **LEFT INPUT** – Use this input to add an additional signal to the Reverb circuit's left output. The additional signal will be summed with the left Reverb output and panned hard left in the stereo field.
- 45 **RIGHT INPUT** – Use this input to add an additional signal to the Reverb circuit's right output. The additional signal will be summed with the right Reverb output and panned hard right in the stereo field.
- 46 **L OUTPUT/R OUTPUT** – The final stereo left-right outputs each have matching parallel pairs of 1/4" and 3.5 mm connections. The 1/4" outputs can be used to send the final mix to external amplifiers, speakers or other processing equipment. The parallel 3.5 mm jacks can be used to send the left and right outputs to other synth circuits for further processing.

Keyboard/Portamento Section

The Keyboard section determines how the built-in Low Frequency Oscillator (LFO) unit works with an external keyboard.

The keyboard control voltage is available as a pre-wired connection wherever you see this label:



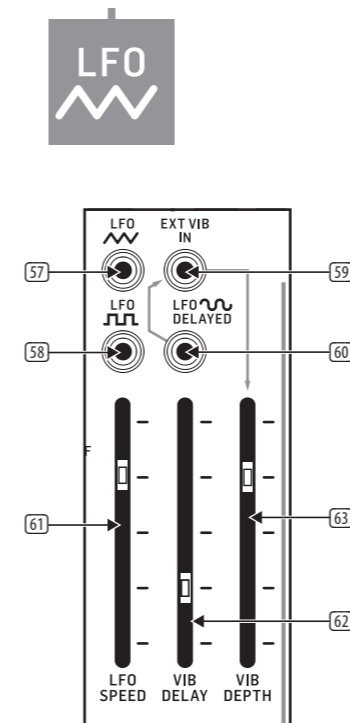
- 47 **TRIG OUT** – Use this output to send out a trigger control voltage for use elsewhere via a cable with a 3.5 mm connector.
- 48 **GATE OUT** – This output can be used to send out a gate control voltage via a cable with a 3.5 mm connector.
- 49 **UPPER VOICE** – This output sends out a control voltage based on the highest note being played on the keyboard while in DUO voice mode.
- 50 **KYBD CV** – This output sends out the complete keyboard control voltage signal for use elsewhere.
- 51 **VOICE MODE(MONO/DUO)** – Use this sliding switch to determine whether the keyboard plays one voice at a time (MONO) or two voices simultaneously (DUO).
- 52 **REPEAT (KYBD/OFF/AUTO)** – Use this sliding switch to control how the keyboard sends trigger signals. When the switch is set to the KYBD position, the keyboard will send out repeating trigger pulses as long a key is held down. In the AUTO setting, the keyboard will send out a stream of trigger pulses based on the synthesizer's LFO setting. When the switch is in the center OFF position, the keyboard will generate only one trigger pulse per key press (i.e., the keyboard will revert to "normal" keyboard functionality).
- 53 **TRIG MODE (SINGLE/MULT)** – When this switch is set to SINGLE, the keyboard will only generate a trigger pulse when a key is played while no other keys are being played. In MULT mode, the keyboard will generate a trigger pulse every time any key is pressed down, even if previously pressed keys are held down.

The Portamento function allows one pitch to change gradually to a second pitch at a predetermined rate.

- 54 **ON/OFF** – This switch turns the Portamento function on or off.
- 55 **MOMEN** – Pressing this button temporarily activates the Portamento function for as long as the button is held down.
- 56 **MAX/MIN** – This slider controls the strength of the Portamento effect. The MAX setting provides the most gradual and smooth effect.

Low Frequency Oscillator (LFO) Section

The unit includes a purpose-built Low Frequency Oscillator (LFO) primarily meant to function with a keyboard. The LFO has a pre-wired connection to VC01, as indicated by this label:



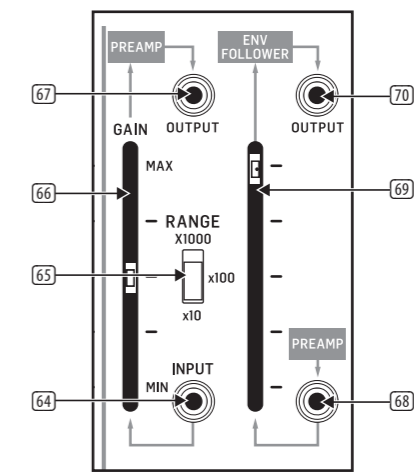
- 57 **LFO (SAW)** – This output allows you to route a sawtooth LFO signal out for use elsewhere via a cable with 3.5 mm connectors.
- 58 **LFO (SQUARE)** – This output allows you to route a square wave LFO signal out for use elsewhere.
- 59 **EXT VIB IN** – This input allows you to route in an external LFO signal for blending with the delayed LFO sine wave.
- 60 **LFO (SINE) DELAYED** – This output can be used to send out a copy of the LFO's pre-wired sine wave output for use elsewhere. This output signal is delayed at a rate controlled by the VIB DELAY slider.
- 61 **LFO SPEED** – Controls the base speed of the LFO oscillation.
- 62 **VIB DELAY** – This slider controls the amount of delay applied to the LFO sine wave.
- 63 **VIB DEPTH** – This slider controls the intensity of the vibrato effect created by the delayed sine wave LFO signal.

Envelope Follower Section

The Envelope Follower generates an output voltage based on an input signal, depending on the average amplitude of the input signal. The generated control voltage's characteristics can be adjusted to create various effects when the output is routed to the VCF, VCA or the VCOs.

The input signal can be adjusted via the Preamp, which feeds into the Envelope Follower via a pre-wired connection.

The Envelope Follower's output does not have a pre-wired connection to other sections of the synthesizer.



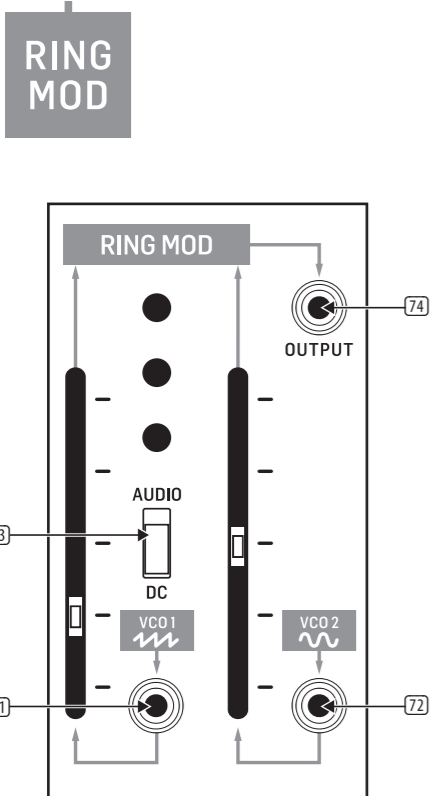
- 64 **PREAMP INPUT** – Use this input to route an external signal into the Preamp via a cable with a 3.5 mm connector.
- 65 **RANGE (X1000/X100/X10)** – Use this sliding switch to determine the base amount of amplification applied to the input signal and then adjusted via the GAIN slider.
- 66 **GAIN** – This slider determines how strongly the input signal is amplified.
- 67 **PREAMP OUTPUT** – This output sends out a copy of the Preamp signal for use elsewhere in the synth.
- 68 **PREAMP INPUT** – This input allows you to bypass the Preamp and route an external signal directly into the Envelope Follower. Alternately, the input signal can be blended with the signal coming into the Envelope Follower via the pre-wired connection.
- 69 **SENSITIVITY** – This slider controls the sensitivity of the Envelope Follower circuit.
- 70 **OUTPUT (ENVELOPE FOLLOWER)** – Use this output to route the final Envelope Follower signal out for use elsewhere in the synthesizer via a cable with a 3.5 mm connector.

2600 Controls

Ring Modulator Section

The Ring Modulator is a voltage multiplier that combines two input signals to produce a variety of exotic timbres. By default, the two pre-wired signals come into the circuit from VCO1 (sawtooth) and VCO2 (sine).

The Ring Modulator output is available as a pre-wired connection wherever you see this label:

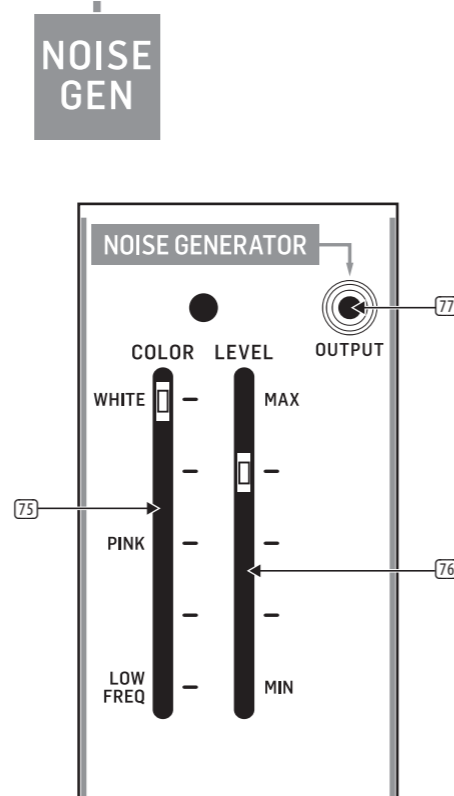


- 71 **VCO 1** – This input jack allows you to route in an external signal for blending with the pre-wired VCO1 sawtooth signal. The overall gain for this combined signal is adjusted by the adjacent slider.
- 72 **VCO 2** – This input jack allows you to route in an external signal for blending with the pre-wired VCO2 sine wave signal. The overall gain for this combined signal is adjusted by the adjacent slider.
- 73 **AUDIO/DC** – Use this switch to optimize the VCO1 signal path for audio (AUDIO) or control voltage (DC) signals.
- 74 **RING MOD OUTPUT** – This jack can be used to send out the final, summed Ring Modulator for use elsewhere where a pre-wired connection is not available.

Noise Generator Section

The Noise Generator produces a noise signal that can be adjusted between white, pink and low frequency types of noise, each of which has distinct characteristics and can then be processed in other sections of the synth to design sounds.

The Noise Generator output is available as a pre-wired connection wherever you see this label:

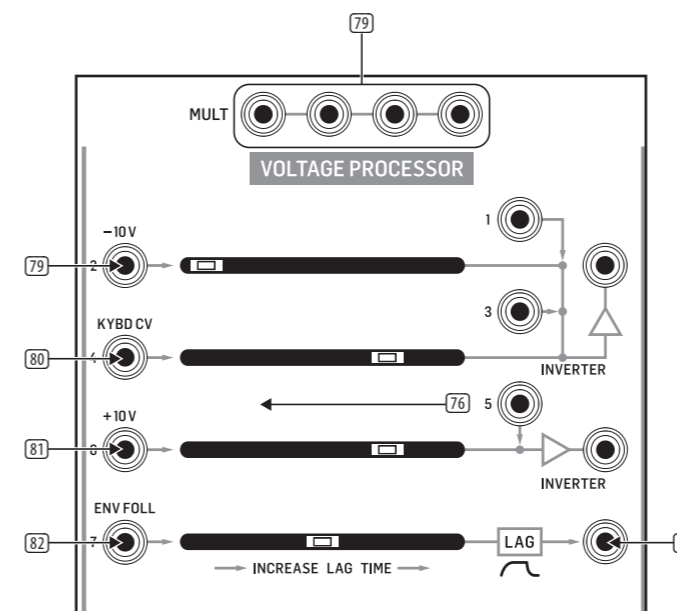


- 75 **COLOR** – Use this slider to move between white noise (WHITE), pink noise (PINK) and low frequency noise (LOW FREQ).
- 76 **LEVEL** – This slider controls the overall attenuation of the noise signal prior to output.
- 77 **NOISE GENERATOR OUTPUT** – Use this output to send the final noise signal out for use in the synth where a pre-wired connection is not available.

Voltage Processor Section

The Voltage Processor offers three different processors for both audio and control voltage signals. Two of the processors are for mixing and inverting signals, while the third processor applies a variable lag to the signal.

The Voltage Processor's output is not available elsewhere in the synth as a pre-wired signal, and so requires cables.



- 78 **MULT** – These linked parallel connections can be used as a patch bay to duplicate and combine signals. The MULT connections can function as both inputs and outputs.

Inverter 1

Inverter 1 accepts four different inputs, which are summed and then inverted. For example, a +10 V input to INPUT 1 will leave Inverter 1 with a value of -10 V, while an audio signal will be output with the phase reversed 180°.

- 79 **-10 V** – This input attenuates the input signal by 10 V.

- 80 **KYBD CV** – This input is optimized for control voltage signal from a keyboard.

Inverter 2

Inverter 2 can accept two signals, which are then summed and inverted for output.

- 81 **+10 V** – This inputs boosts the input signal by +10 V.

Lag Processor

The Lag Processor responds to sudden changes in input voltage and slows down those changes by an amount controlled by the slider. For audio signals, the Lag Processor will cut off treble frequencies by increasing amounts, similar to a low-pass filter.

- 82 **ENV FOLL** – This input can accept both control voltages and audio signals but is optimized to process the Envelope Follower output signal.

- 83 **LAG** – This jack sends out the final signal from the Lag Processor.

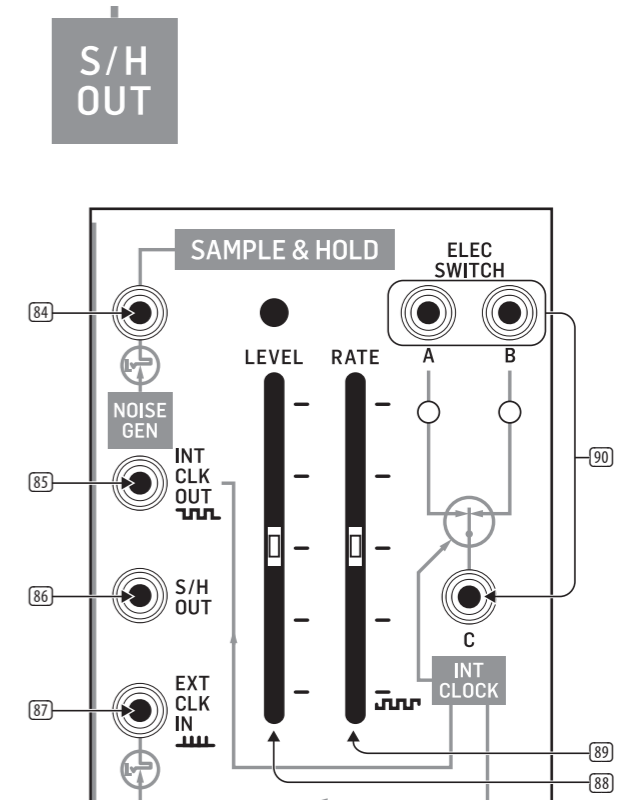
Sample & Hold/Electronic Switch Section

Sample & Hold

The Sample & Hold circuit takes an input signal and converts that signal into a stepped output by taking samples of the input signal at set intervals. For example, a smooth sine wave input will appear at the output as a squared-off, approximate version of the original smooth waveform. This stepped waveform can then be sent other areas of the synthesizer to create exotic sounds and textures.

This Sample & Hold circuit has an internal clock generator and a pre-wired connection from the Noise Generator circuit.

The Sample & Hold circuit's output is available as a pre-wired connection wherever you see this label:



- 84 **NOISE GENERATOR** – This input jack interrupts the Noise Generator input signal when a 3.5 mm connector is inserted into the jack. Use this jack to substitute another signal for the Noise Generator signal.

- 85 **INT CLOCK OUT** – Use this jack to export the internally generated clock signal for use in other parts of the synthesizer.

- 86 **S/H OUT** – Use this jack to send out the Sample & Hold circuit's final signal for use elsewhere in the synthesizer where a pre-wired connection is not available.

2600 Controls

- 87 **EXT CLK IN** – This jack can be used to import an external clock signal to run the Sample & Hold circuit. Placing a 3.5 mm connector into this jack will disable the internal clock generator. Any square or pulse wave generated in other areas of the synthesizer, as well gate or trigger signals from the keyboard can be routed into this jack and used as a clock signal.
- 88 **LEVEL** – This slider attenuates the input signal before it goes into the Sample & Hold circuit.
- 89 **RATE** – This slider controls the speed of the internal clock generator and therefore controls how often the Sample & Hold circuit takes a measurement of the input signal. When the internal clock signal is interrupted by use of the EXT CLK IN input, the RATE slider will not function.

Electronic Switch

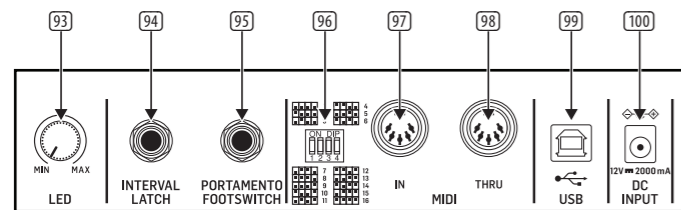
The Electronic Switch connections are bidirectional. This circuit can alternate a single input from C between the A and B outputs, or the circuit can route two signals into the A and B jacks and then alternate the C output between the A and B input signals. The rate of back-and-forth switching in both of these scenarios is controlled by the Sample & Hold circuit's internal clock (or an external clock source routed in through the EXT CLK IN jack).

- 90 **ELEC SWITCH A/B/C** – These jacks route signals in and out over cables with 3.5 mm connectors.

Phones/Power

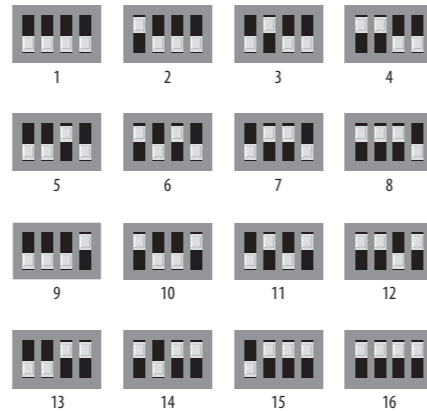
- 91 **PHONES** – Use this jack to connect headphones that use 1/8" plugs and control the output level with the knob immediately below the jack. The headphone jack is connected to the Mixer output.
- 92 **POWER** – Press this switch to turn the synthesizer on or off. Make sure all the connections are made before turning on the unit.

Back Panel



- 93 **LED** – Use this rotary knob to control the brightness of the LEDs on the front panel.
- 94 **INTERVAL LATCH** – Use this 1/4" jack with an external footswitch to temporarily turn on the interval function. When the VOICE MODE switch is in the DUO position, playing two notes and depressing the footswitch maintains the two-note interval while you play further single notes.
- 95 **PORTAMENTO FOOTSWITCH** – Use this 1/4" jack with an external footswitch to turn the Portamento function on or off.

- 96 **MIDI CHANNEL SWITCHES** – These 4 switches allow you to set the MIDI Channel number from 1 to 16 (see the table printed in this document or refer to the silk-screened switch matrix printed on the back panel).



- 97 **MIDI IN** – This port receives MIDI data from an external source over a 5-pin DIN connector. This external source will commonly be a MIDI keyboard, an external hardware sequencer, a computer equipped with a MIDI interface, and so on.
- 98 **MIDI THRU** – This port uses a 5-pin DIN jack is used to pass through MIDI data received at the MIDI IN jack. This MIDI data will commonly be sent to another synthesizer or to a drum machine assigned to a different MIDI Channel.
- 99 **USB PORT** – This jack allows connection to a computer over a USB type B connection. This synthesizer will show up as a class-compliant USB MIDI device, capable of supporting MIDI in and out.
- 100 **DC INPUT** – Connect the supplied 12V DC power adapter here. The power adapter can be plugged into an AC outlet capable of supplying from 100V to 240V at 50 Hz/60 Hz. Use only the power adapter supplied.

Specifications

Inputs	
VCO 1 / 2 / 3	
Frequency modulation (FM) control	11 x 3.5 mm TS jacks, CV range: -10 V to +10 V
Pulse width modulation (PWM)	2 x 3.5 mm TS jack, CV range: -5 V to +5 V, 1 V/10%
VCF	
Audio	5 x 3.5 mm TS jacks, 50 kΩ unbalanced
Control	3 x 3.5 mm TS jacks, CV range: -10 V to +10 V
ADSR / AR envelope generator	
S&H clock	1 x 3.5 mm TS jack, threshold: > 6 V
Gate in	1 x 3.5 mm TS jack, threshold: +4 V
Trig in	1 x 3.5 mm TS jack, threshold: +5 V
VCA	
Audio	2 x 3.5 mm TS jacks, 50 kΩ unbalanced
Control (linear)	1 x 3.5 mm TS jack, CV range: -10 V to +10 V
Control (exponential)	1 x 3.5 mm TS jack, CV range: -10 V to +10 V
Mixer / Reverb	
Audio	2 x 3.5 mm TS jacks, 50 kΩ unbalanced
Left / right inputs	2 x 3.5 mm TS jacks, 50 kΩ unbalanced
LFO	
Ext vib in	1 x 3.5 mm TS jack, 50 kΩ unbalanced
Envelope Follower	
Input	1 x 3.5 mm TS jack, 100 kΩ unbalanced
Preamp input	1 x 3.5 mm TS jack, 100 kΩ unbalanced
Ring Modulator	
VCO 1 input	1 x 3.5 mm TS jack, 100 kΩ unbalanced
VCO 2 input	1 x 3.5 mm TS jack, 100 kΩ unbalanced
Voltage Processor	
-10 V input	1 x 3.5 mm TS jack, max. input level: +10 V
Inputs 1 / 3 / 5	3 x 3.5 mm TS jacks, max. input level: +10 V
Keyboard CV input	1 x 3.5 mm TS jack, max. input level: +10 V
+10 V input	1 x 3.5 mm TS jack, max. input level: +10 V
Env follower input	1 x 3.5 mm TS jack, max. input level: +10 V
Sample & Hold	
Noise gen input	1 x 3.5 mm TS jack, 50 kΩ unbalanced
Ext clock in	1 x 3.5 mm TS jack, threshold: > 3 V
Back Panel	
Interval latch	1 x 1/4" TRS
Portamento footswitch	1 x 1/4" TRS

Specifications

Outputs

VCO 1 / 2 / 3	
Outputs (saw)	3 x 3.5 mm TS jacks, 1 kΩ unbalanced
Outputs (pulse)	3 x 3.5 mm TS jacks, 800 Ω unbalanced
Outputs (tri)	2 x 3.5 mm TS jacks, 1 kΩ unbalanced (VCO 2 / 3 only)
Outputs (sine)	2 x 3.5 mm TS jacks, 1 kΩ unbalanced (VCO 2 / 3 only)
VCF	
Outputs	1 x 3.5 mm TS jack, 1 kΩ unbalanced
ADSR / AR Envelope Generator	
Output	2 x 3.5 mm TS jacks, CV range: 0 V to +10 V
VCA	
Output	1 x 3.5 mm TS jack, 1 kΩ unbalanced
Mixer / reverb	
Post-attenuator outputs	2 x 3.5 mm TS jacks, 1 kΩ unbalanced
Post-mixer output	1 x 3.5 mm TS jack, 1 kΩ unbalanced
L / R outputs	2 x ¼" TS, 500 Ω unbalanced 2 x 3.5 mm TS jacks, 500 Ω unbalanced
LFO	
LFO (triangle)	1 x 3.5 mm TS jack, 1 kΩ unbalanced
LFO (square)	1 x 3.5 mm TS jack, 1.8 kΩ unbalanced
LFO delayed (sine)	1 x 3.5 mm TS jack, 1 kΩ unbalanced
Envelope follower	
Output (preamp x1000)	1 x 3.5 mm TS jack, max. output gain: +60 dBu
Output (preamp x100)	1 x 3.5 mm TS jack, max. output gain: +40 dBu
Output (preamp x10)	1 x 3.5 mm TS jack, max. output gain: +20 dBu
Output (env follower)	1 x 3.5 mm TS jack, max. output level: +14 V
Ring modulator	
Output	1 x 3.5 mm TS jack, output level: -10 V to +10 V
Noise generator	
Output	1 x 3.5 mm TS jack, output level: -10 V to +10 V
Voltage processor	
Inverter 1 output	1 x 3.5 mm TS jack, output level: -10 V to +10 V
Inverter 2 output	1 x 3.5 mm TS jack, output level: -10 V to +10 V
Lag output	1 x 3.5 mm TS jack, output level: -10 V to +10 V
Sample & hold	
Internal clock out	1 x 3.5 mm TS jack, max. output level: +10 V
S/H out	1 x 3.5 mm TS jack, max. output level: +14 V
Portamento / keyboard	
Trig out	1 x 3.5 mm TS jack, output level: +14 V
Upper voice	1 x 3.5 mm TS jack, max. output level: +10 V
Gate out	1 x 3.5 mm TS jack, output level: +10 V
Keyboard CV output	1 x 3.5 mm TS jack, max. output level: +7 V
Phones	
Type	1 x ¼" TRS jack, stereo
Max. output level	5 dBu
Output impedance	8 Ω

Dual Inputs / Outputs

Voltage Processor	
Mult inputs / outputs	4 x 3.5 mm TS jacks, all direct connection.
Sample & Hold	
Elec switch A / B / C	3 x 3.5 mm TS jacks, A / C on or B / C on
MIDI in / thru	2 x 5-pin DIN, 16 channels
USB (MIDI)	Type B

Controls

VCO 1 / 2 / 3	
Sliders	Initial oscillator frequency: 10 (0.03) Hz / 100 (0.3) Hz / 1 (3.0 Hz) kHz / 10 (30 Hz) kHz, selectable Fine tune Pulse width: 10% to 90% Audio / LF (Kybd on / off) Sync on / off (VCO 2 / 3 only) S / H slider (VCO 1 / 2 only) ADSR LFO (VCO 1 only) VCO 1 (pulse, VCO 2 only) VCO 2 (sine, VCO 3 only) Noise generator (VCO 2 / 3 only)
Switches	Audio / LF (kybd on / off) Sync on / off (VCO 1 / 2 only)
VCF / Resonator	
Sliders	Initial filter frequency Fine tune Resonance Ring modulator VCO 1 (pulse) VCO 2 (pulse) VCO 3 (saw) Noise generator Keyboard CV ADSR VCO 2 (sine)
Switches	Mode: 4012 / 4072, selectable
AR / ADSR envelope generator	
Sliders	"Attack time Decay time Sus level Release time Time factor Manual"
Switches	Time factor: x0.5 / x1 / x2, selectable
VCA	
Sliders	Initial gain VCF Ring modulator AR ADSR
Mixer / reverb	
Sliders	VCF VCA Reverb L / R Pan
LFO	
Sliders	LFO speed Vib delay Vib depth
Envelope follower	
Sliders	Input gain Preamp gain
Switches	Gain range: x10 (20 dB) / x100 (40 dB) / x1000 (60 dB), selectable
Ring modulator	
Sliders	VCO 1 (saw) VCO 2 (sine)
Noise generator	
Sliders	Color: low freq / pink / white, adjustable Level

Specifications

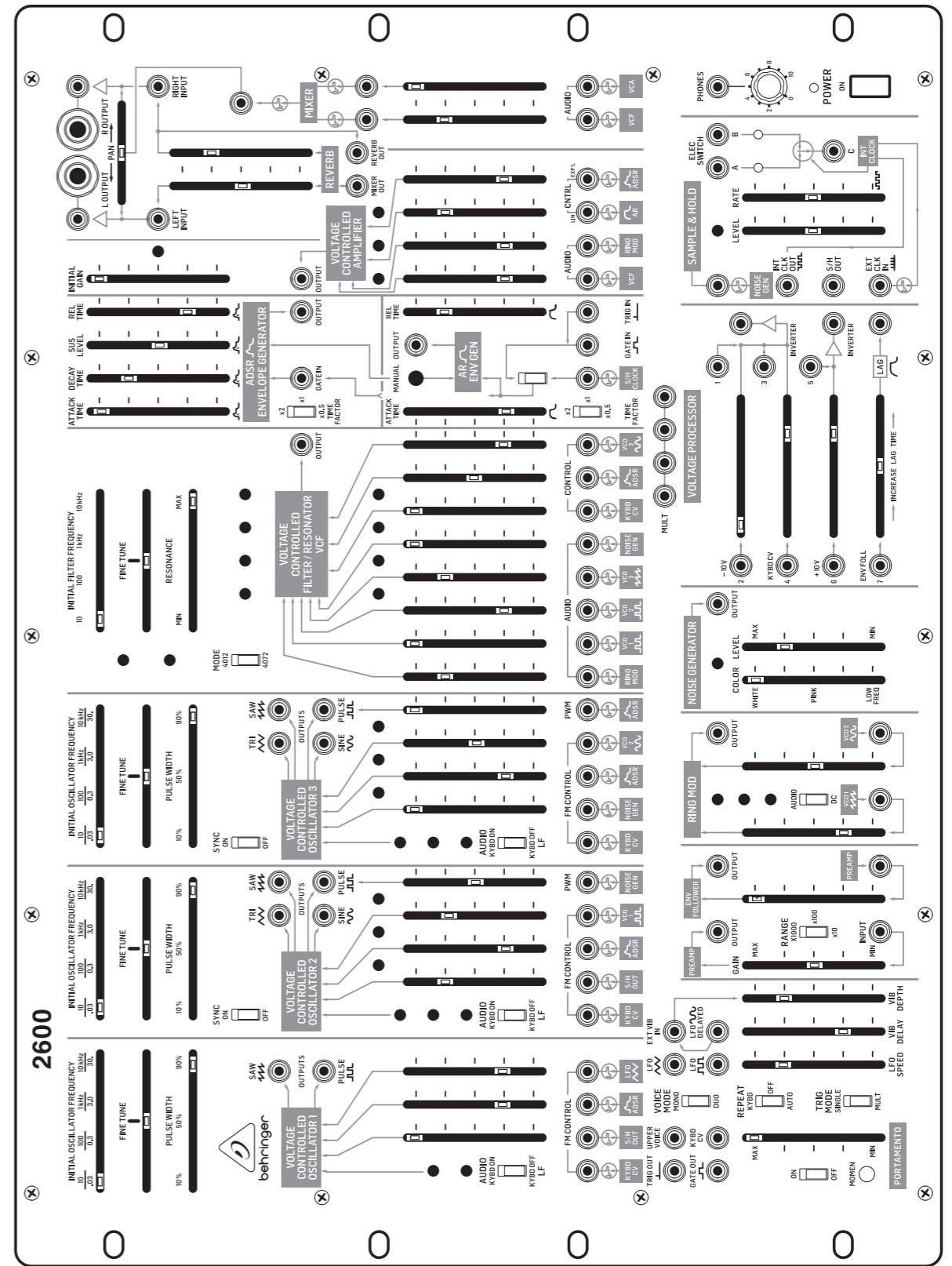
Controls	
Voltage processor	
Sliders	-10 V gain Keyboard CV gain +10 V gain Increase lag time
Sample & hold	
Sliders	Level Rate
Portamento	
Sliders	Portamento: min to max
Switches	On / off Momen
Keyboard	
Switches	Voice mode: mono / duo, selectable Repeat: keyboard / off / auto, selectable Trig mode: single / multi, selectable
Phones level	1 x rotary knob: 0 to 10
Power	1 x rocker switch
Back panel	
LED	1 x rotary knob: min to max
MIDI channel switches	4 x DIP switches
Synthesizer Architecture	
Number of voices	Multiphonic
Type	Analog
VCO	3 (0.03 Hz to 40 kHz in 4 overlapping ranges)
LFO	1 (0.25 Hz to 25 Hz)
VCF	1 x 4-pole low pass (24 dB/oct. slope)
VCA	1
Envelopes	AR, ADSR
Effects	Digital spring reverb
USB	
Type	Class compliant USB 2.0, type B
Supported operating systems	Windows 7 or higher Mac OS X 10.6.8 or higher
Power	
External power adapter	12 V DC, 2000 mA
Power consumption	Max. 15 W
Physical	
Standard operating temperature range	5° C to 40° C (41° F to 104° F)
Dimensions	482 x 356 x 108 mm (19 x 14 x 4.3")
Rack units	95 HP
Weight	5.1 kg (11.22 lbs)

Patch Sheet

NAME: _____
DATE: _____

TITLE: _____

EN



NOTES: _____

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

Behringer

2600

Responsible Party Name: **Music Tribe Commercial NV Inc.**
Address: **901 Grier Drive
Las Vegas, NV 89118
USA**
Phone Number: **+1 747 237 5033**

2600

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Important information:

Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.

We Hear You