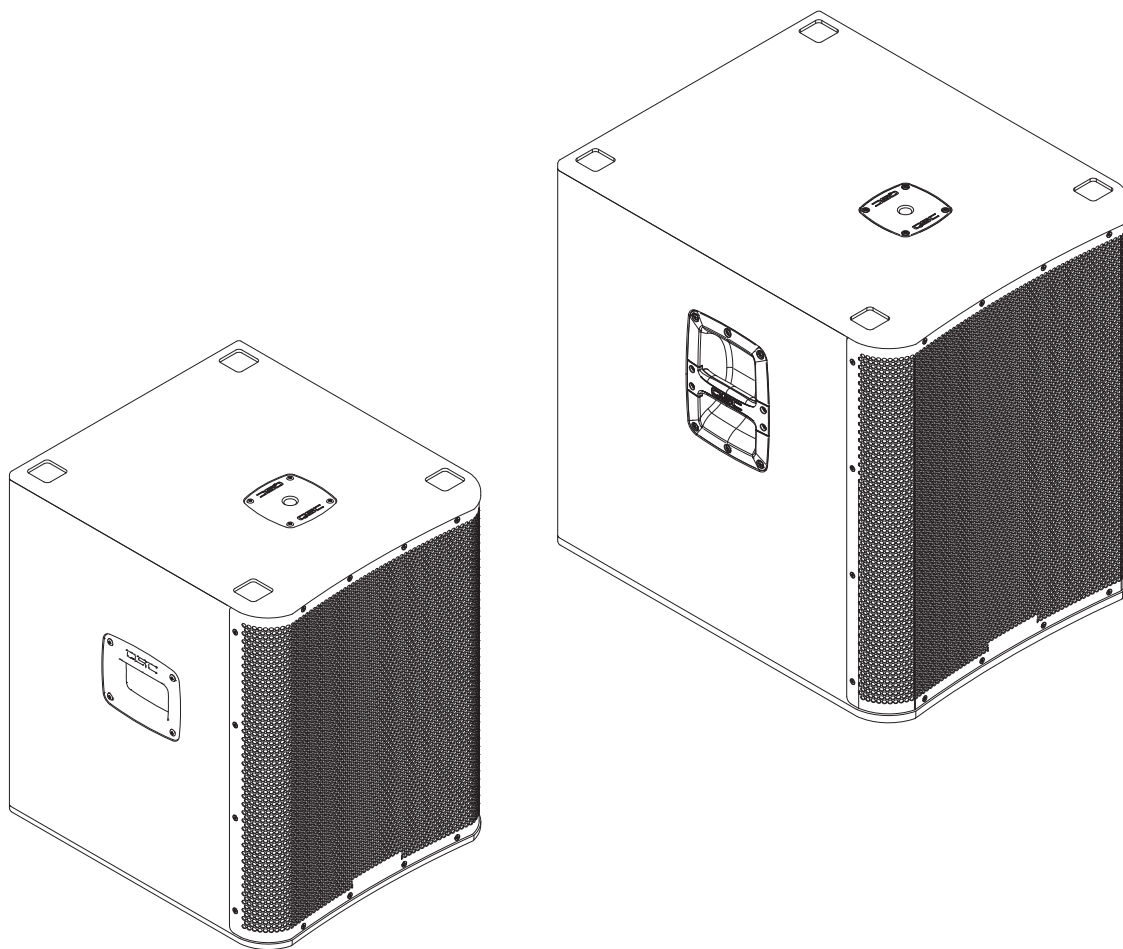


CS SERIES USER MANUAL

CS15 – 15-INCH 2600 WATT SUBWOOFER

CS18 – 18-INCH 2600 WATT SUBWOOFER



WA-001020-01-B



QSC[®]

CONTENTS

Basic Information	4
Package Contents	4
Maintenance and Repair	4
Description of Symbols	5
Regulatory Statements	5
Key Features and Technologies	10
QSC Loudspeaker Control APP	10
CS15 Features	11
CS18 Features	12
CS Series Subwoofer Applications and Installation	13
Placement of the CS15/CS18	13
Pole-Mounting Loudspeakers over a Subwoofer	14
Cardioid Configurations	15
About Cardioid Subwoofer Radiation	16
Cooling	17
AC Mains	17
AC Mains Disconnection	17
Turning Your CS Series Subwoofers On	17
Power Switch	17
Rear POWER Indicator LED	17
System Power Sequencing	18
Block Diagram	18
Inputs and Outputs	19
Factory Reset	19
Balanced Inputs	20
Unbalanced Inputs	20
Knowledge Base	22
Customer Support	22
Warranty	22

EXPLANATION OF SYMBOLS

The term **“WARNING”** precedes instructions that concern personal safety. Failure to follow them may result in bodily injury or death.

The term **“CAUTION”** precedes instructions that concern possible damage to physical equipment. Failure to follow them may result in equipment damage to equipment that may not be covered under the warranty.

The term **“IMPORTANT”** precedes instructions or information that are vital to the successful completion of the procedure.

The term **“NOTE”** precedes additional useful information.



The lightning flash with arrowhead symbol in a triangle alerts the user to the presence of uninsulated dangerous voltage within the product's enclosure that may constitute a risk of electric shock to humans.



The exclamation point within a triangle alerts the user to important safety, operating, and maintenance instructions in this manual.



IMPORTANT SAFETY INSTRUCTIONS



WARNING! TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. DO NOT USE THIS APPARATUS NEAR WATER.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all the 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. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as internal power supply, 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
13. To reduce the risk of fire or electrical shock, do NOT expose this product to rain, liquids or moisture.
14. Do NOT expose this product to dripping or splashing, and do not place objects filled with liquids, such as vases, on or near the product.
15. Keep the product away from fire and heat sources. Do NOT place naked flame sources, such as lighted candles, on or near the product.
16. Do NOT make unauthorized alterations to this product.
17. Do NOT use in vehicles or boats.
18. Use this product only with the power cord provided (or equivalent).

19. The maximum ambient temperature during use of the appliance must not exceed 40°C.
20. The appliance shall be connected to a MAINS socket outlet with a protective earthing connection.
21. The plug is used as a disconnect device, making sure socket-outlets are easily accessible.
22. Due to ventilation requirements, it does not recommend placing the product in a confined space such as in a wall cavity or in an enclosed cabinet.
23. The product contains small parts which may be a choking hazard. Not suitable for children under age 3.



24. This product contains magnetic material. Consult your physician on whether this might affect your implantable medical device.



25. The product label is located on the back of the product.

BASIC INFORMATION

Product name: CS Series Active Subwoofer

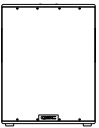
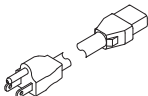
Model No.: CS15, CS18

Input: 100-240V~, 50/60Hz, 2.7 - 1.1A

Manufacturer: QSC, LLC

Address: 1675 MacArthur Blvd. Costa Mesa, CA 92626, USA

PACKAGE CONTENTS

 1 CS15 or CS18 subwoofer in poly bag	 1 AC power cord	 2 White QSC logo sticker
 1 QSC limited warranty TD-000453-01	 1 Quick start guide TD-001727-01	 1 Powered loud-speaker safety sheet TD-000337-00

MAINTENANCE AND REPAIR

CS Series subwoofers do not contain user-serviceable parts. QSC does not recommend using chemicals or solvents to wash subwoofers. Instead, use a damp towel with water only, and dry immediately after wiping down. Do not allow water to pool on the connectors, hardware, or rear user interface.

If exposed to direct sunlight for extended periods of time, the hardware may become discolored or faded. Cover or shade your CS Series subwoofer from long-term, direct sunlight whenever possible.



WARNING!: Advanced technology—e.g., the use of modern materials and powerful electronics—requires specially adapted maintenance and repair methods. To avoid subsequent damage to the equipment, personal injury, and/or creation of additional safety hazards, have

all maintenance or repair work on the equipment performed only by a QSC authorized service center or an authorized QSC International Distributor. QSC is not responsible for any injury, harm, or related damages that arise from any failure of the customer, owner, or user of the equipment to facilitate those repairs.

Storage Temperature range: -20° C to +70° C

Relative Humidity range: 5 - 85% RH

DESCRIPTION OF SYMBOLS

	For indoor use only
	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.
	Alternating current
	Read user manual before use

REGULATORY STATEMENTS

United States

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. (2) This device must accept any interference received, including interference that may cause undesired operation.



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 his own expense.



WARNING! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radiation Exposure Statement



NOTE: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

QSC complies with California Proposition 65—officially the Safe Drinking Water and Toxic Enforcement Act of 1986—which requires warnings about potential exposure to chemicals known to cause cancer, birth defects, or other reproductive harm.



CALIFORNIA WARNING: CAN EXPOSE YOU TO LEAD, A CARCINOGEN AND REPRODUCTIVE TOXICANT. SEE WWW.P65WARNINGS.CA.GOV.

Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

Este produto está homologado pela Anatel de acordo com os procedimentos regulamentados para avaliação da conformidade de produtos para telecomunicações e atende aos requisitos técnicos aplicados. Para maiores informações, consulte o site da Anatel - www.anatel.gov.br

“Este equipamento deve ser conectado obrigatoriamente em tomada de rede de energia elétrica que possua aterramento (três pinos), conforme a Norma de instalações elétricas ABNT NBR 5410, visando a segurança dos usuários contra choques elétricos”



WARNING!: This device is designed as professional equipment and is intended for commercial or industrial use only. The use and installation of the equipment must be carried out by trained personnel to avoid damage to the equipment or other hazards

Canada

CAN ICES (A) / NMB(A)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure

This device has been evaluated and shown compliant with the RF exposure requirements listed in RSS-102 - Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus limits under fixed exposure conditions (antennas are greater than 20cm from a person's body) when installed in certain specific OEM configurations.

Cet appareil a été évalué et montré conforme aux exigences d'exposition RF énumérées dans RSS-102 - Exposition aux fréquences radio (RF) Conformité des limites des appareils de communication radio dans des conditions d'exposition fixes (les antennes sont à plus de 20 cm du corps d'une personne) lorsqu'elles sont installées dans certaines configurations OEM spécifiques.

根據低功率射頻器材技術規範：

取得審驗證明之低功率射頻器材，非經核准，公司，商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干

擾。減少電磁波影響，請妥適使用。5.7.9.1應避免影響附近雷達系統之操作。

警告使用者：
此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。：

限用物質含有情況標示聲明書

主動式喇叭，型號：CS15, CS18						
單元	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr ⁶⁺)	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
金屬部件	0.1 wt%	○	○	○	○	○
塑膠部件	○	○	○	○	○	○
木質部件	○	○	○	○	○	○
印刷電路板	0.1 wt%	○	○	○	○	○
喇叭	○	○	○	○	○	○
備考1. “超出0.1 wt%”及“超出0.01 wt%”係指限用物質之百分比含量超出百分比含量基準值。						
備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。						
備考3. “—”係指該項限用物質為排除項目。						

EU

Technical Specifications

Operating Frequency Range: 2402-2480 MHz

Max. RF Output power: < 20dBm E.I.R.P

Temperature range: 0 to 40° C

This product can be used in EU countries without any restrictions.

Manufacturer Information

QSC, LLC
1675 MacArthur Blvd. Costa Mesa, CA 92626, USA

EU Representative

QSC EMEA GmbH
AM Ilvesbach 6, 74889 Sinsheim, Germany
Tel: +49 7261 6595 300
Email: info.emea@qsc.com
www.qsc.com

EU Regulatory Conformance

Hereby, we (QSC, LLC) declared that this device is in compliance European Radio Equipment Directive (RED) 2014/53/EU and European Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU.

The full text of the EU declaration of conformity is available at the following internet address:
<https://www.qscaudio.com/resources/compliance-library/>

RF Exposure Statement

RF exposure assessment has been performed to prove that this unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).



WARNING!: Operation of this equipment in a residential environment could cause radio interference.

Correct Disposal



Do not dispose of this product with the normal household waste at the end of its life cycle. Return it to a collection point for the recycling of electrical and electronic devices. This is indicated by the symbol on the product, user manual or packaging. The materials are reusable according to their markings. By reusing, recycling or other forms of utilisation of old devices you make an important contribution to the protection of our environment. Please contact your local authorities for details about collection points.

CS15 and CS18 adopt Bluetooth 5.0

Sustainability Compliance

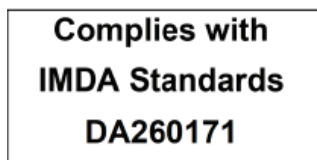
QSC is committed to conducting business in accordance with evolving environmental regulations and industry standards. As part of our responsibility to customers, partners, and the communities in which we operate, QSC is strengthening its environmental compliance framework to better understand and mitigate the impacts of our operations and products by integrating sustainability into our policies, processes, and procedures. For more information, visit: <https://www.qsys.com/esg/>

Thailand

เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.



Singapore



"DB260171" is license number of Singapore local representative.

China (中国)

	仅供室内使用
	仅适用于海拔2000m及以下地区安全使用
	本产品的环保使用年限为10年
	使用前请仔细阅读说明书

产品中有害物质的名称及含有的信息表										
部件名称	有害物质									
	Pb	Hg	Cd	Cr(VI)	PBBs	PBDEs	DBP	DIBP	BBP	DEHP
金属部件	X	○	○	○	○	○	○	○	○	○
塑胶部件	○	○	○	○	○	○	○	○	○	○
木质材料	○	○	○	○	○	○	○	○	○	○
印制电路板 组件	X	○	○	○	○	○	○	○	○	○
扬声器	○	○	○	○	○	○	○	○	○	○
本表格依据SJ/T11364的规定编制。 注1：○：表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。 ×：表示该有害物质至少在该部件的某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。 注2：以上未列出的部件，表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。										
 在中华人民共和国境内销售的电子信息产品必须标识此标志，标志内的数字代表在正常使用状态下的产品的环保使用期限。										

根据中国电子行业标准SJ/T11364-2024 和相关的中国政府法规，本产品及其某些内部或外部组件上可能带有环保使用期限标识。取决于组件和组件制造商产品及其组件上的使用期限标识可能有所不同。组件上的使用期限标识优先于产品上任何与之相冲突的或不同的环保使用期限标识。

注：本设备的型号核准代码标识详见后铭牌。

KEY FEATURES AND TECHNOLOGIES

- Active direct-radiating **18-inch** subwoofer or active compact direct-radiating **15-inch** subwoofer.
- Energy-Efficient Class D Amplification module featuring **2600W** of peak power with Universal Power Supply and low AC consumption
- Integrated **room delay** (available via QSC Loudspeaker Control App) supports use as a system extension with larger PA deployments.
- **Intuitive rear panel control** with expanded control via the Bluetooth QSC Loudspeaker Control App ensures confidence with simple plug-and-play operation while also supporting deeper customization via convenient software control.
- Two combo **XLR inputs** (Line), with Factory Presets for normal, DEEP™, or Cardioid modes (cardioid requires 2 subwoofers minimum).
- **Bluetooth** Audio featuring True Wireless Stereo (TWS), which ensures low-latency pairing between music source and connections of up to 4 loudspeakers or subwoofers, simultaneously.
- **M20 pole mount** supports a variety of deployment options.
- **QSC Acoustic Linear Phase** (ALP) integration means that the CS Subwoofer can be seamlessly combined with other QSC subwoofers for additional low-frequency support when needed.
- Industry-best global **6-Year Extended Warranty** when registered within 30 days of purchase.

QSC Loudspeaker Control APP



QSC LOUDSPEAKER CONTROL APP

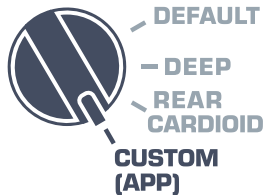
1

Install App



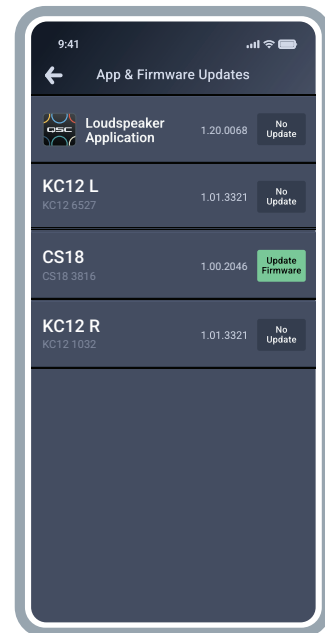
2

Select **CUSTOM (APP)**



3

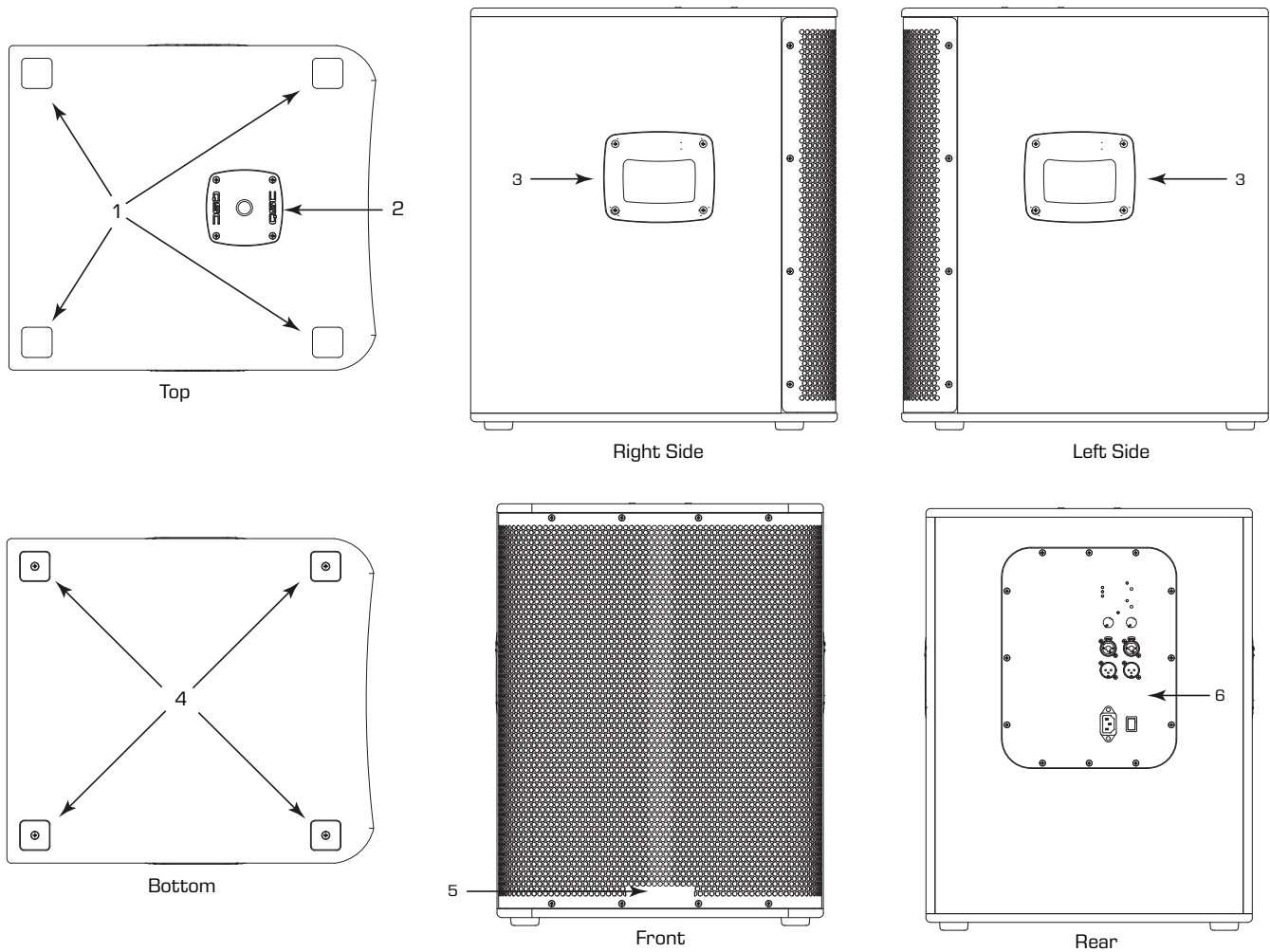
Control
and
Update



App Control Features

- Audio Linking
- Remote Gain Control
- Cardioid Mode
- Polarity
- Room Delay
- Custom output options
- and more

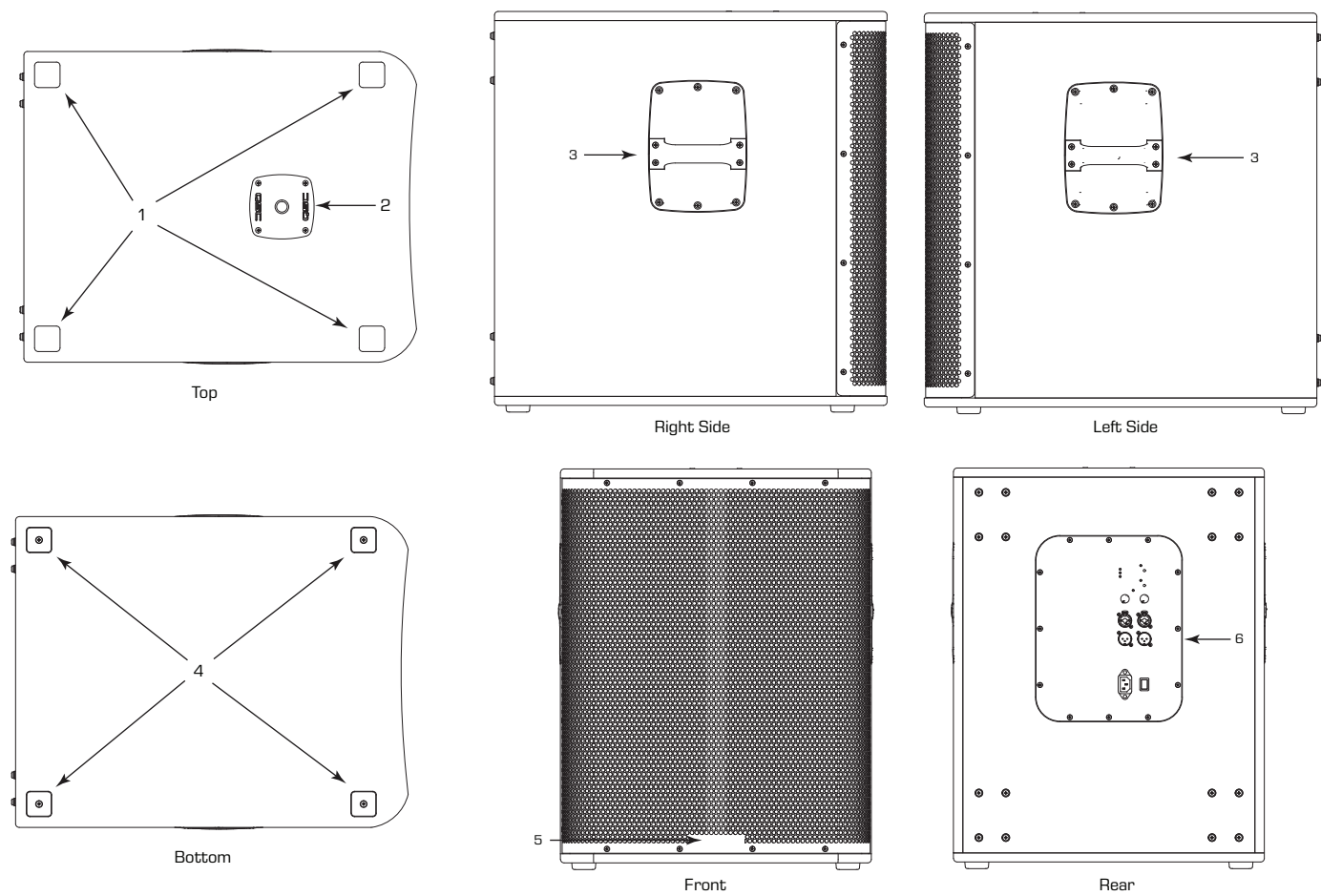
CS15 Features



— Figure 1 —

- | | |
|---|---|
| 1. Alignment cups for stacking | 4. Slip-resistant feet - four on the bottom |
| 2. M20 threaded socket for 35 mm loudspeaker pole | 5. Front power LED |
| 3. Handles | 6. Amplifier power module and controls |

CS18 Features



— Figure 2 —

- | | |
|---|---|
| 1. Alignment cups for stacking | 4. Slip-resistant feet - four on the bottom |
| 2. M20 threaded socket for 35 mm loudspeaker pole | 5. Front power LED |
| 3. Handles | 6. Amplifier power module and controls |

CS SERIES SUBWOOFER

APPLICATIONS AND INSTALLATION

CS subwoofers can be used as single low-frequency acoustic source or in multiples for more coverage and low-frequency energy.



WARNING!: CS Series Subwoofers are not suitable for flying or suspension.

Before placing, installing, or mounting a subwoofer, check all hardware, cabinets, transducers, brackets, and associated equipment for damage. Missing, corroded, deformed, or non-load-rated components could significantly weaken the installation or placement and severely reduce the safety of the installation if left uncorrected.

Consult a licensed professional engineer regarding physical equipment installation. Understand and follow all local, state, and national regulations regarding the safety and operation of subwoofers and related equipment.

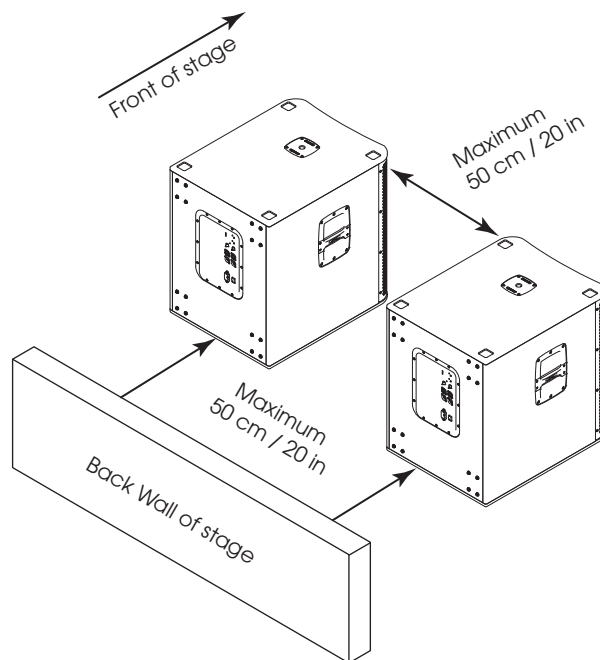


NOTE: To maintain the acoustic properties of the CS15 or CS18 subwoofer, do not place the unit closer than 50 cm (20 in) from a wall or other object that would reflect sound waves.

Placement of the CS15/CS18

Make sure that the subwoofer is placed no closer than 50 cm (20 in) to the back wall of the stage.

Side-by-side subs should be 50 cm (20 in) or less away from each other to maximize acoustic coupling.



— Figure 3 —

Pole-Mounting Loudspeakers over a Subwoofer



NOTE: Figure 4 depicts the CS18 but the CS15 has similar pole-mounting features. See the tables below for individual requirements.

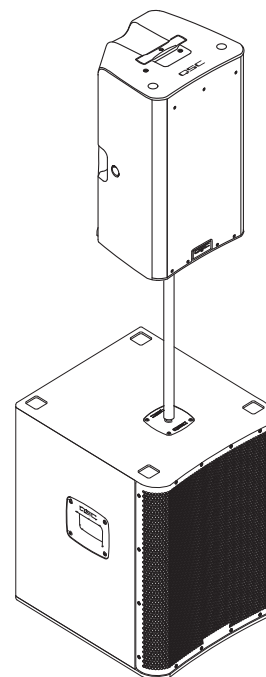
The CS15 and CS18 Subwoofers are equipped with a single M20 threaded socket, on the top only.

Figure 13 shows a CS Series Subwoofer in a vertical orientation with a K.2 Series loudspeaker mounted above.

Use the tables below to determine which poles are safe to use with the various CP, KW, KLA, K.2, and K Series loudspeakers and your CS Series Subwoofer in a horizontal or vertical orientation.

✓ = OK to use

✗ = Not recommended (see note on next page)



— Figure 4 —

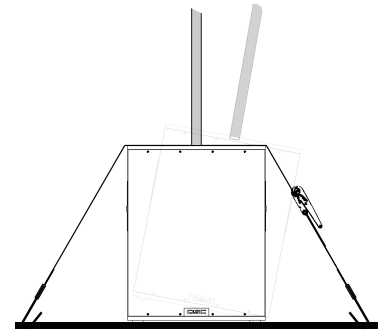
CS15		CB10	CP8	CP12	K8.2	K10.2	K12.2
	SP-16X	✓	✓	✓	✓	✓	✓
	SP-26	✓	✓	✓	✓	✓	✗
	SP-36	✓	✓	✗	✗	✗	✗
	SP-16X + SP-26	✓	✓	✗	✗	✗	✗
CS15 x 2		CB10	CP8	CP12	K8.2	K10.2	K12.2
	SP-16X	✓	✓	✗	✓	✗	✗
	SP-26	✓	✓	✗	✗	✗	✗
	SP-36	✗	✗	✗	✗	✗	✗
	SP-16X + SP-26	✗	✗	✗	✗	✗	✗
CS18		CB10	CP8	CP12	K8.2	K10.2	K12.2
	SP-16X	✓	✓	✓	✓	✓	✓
	SP-26	✓	✓	✓	✓	✓	✓
	SP-36	✓	✓	✓	✓	✓	✓
	SP-16X + SP-26	✓	✓	✓	✓	✓	✓
CS18 x 2		CB10	CP8	CP12	K8.2	K10.2	K12.2
	SP-16X	✓	✓	✓	✓	✓	✓
	SP-26	✓	✓	✓	✓	✓	✓
	SP-36	✓	✓	✓	✓	✓	✓
	SP-16X + SP-26	✓	✓	✓	✓	✓	✗



NOTE: Do not use the configurations marked by a red X (✗) unless the subwoofer or subwoofers are properly secured or restrained (Figure 5) to prevent them leaning more than 10 degrees in any direction.



WARNING! Do not fly or suspend any CS Series subwoofer. It is not intended or equipped for flying or suspension. Use only on a flat surface, such as a floor or stage.



– Figure 5 –

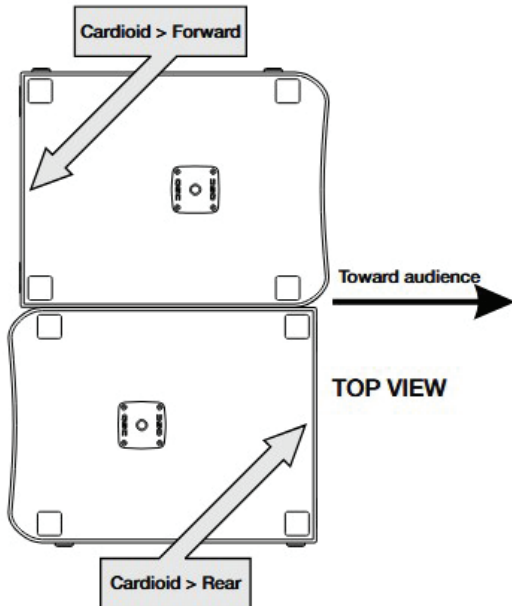
Cardioid Configurations

Two or more like-model CS subwoofers can be arranged and configured to produce a cardioid radiation pattern very simply, with no complex calculations or processing settings required. The processing necessary for cardioid operation is already programmed into each CS subwoofer's DSP. On each subwoofer facing forward (toward the audience), leave on the DEFAULT Preset. On the subwoofer facing away from the audience, select the CARDIOID (REAR) Preset. Put the same audio signal into both subwoofers and set the same gain on each one.

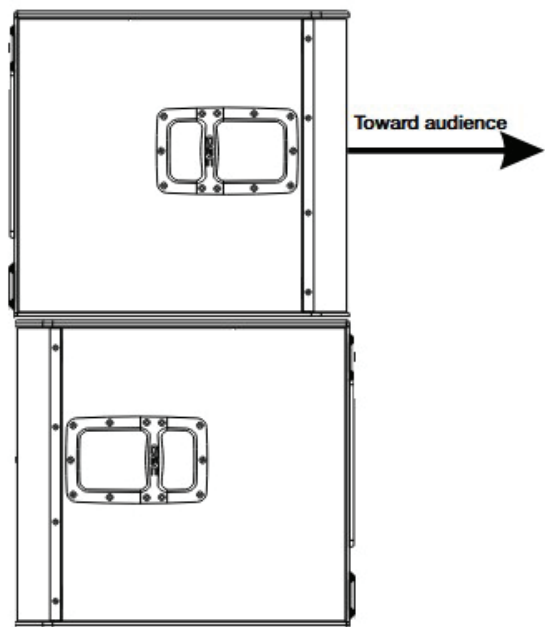


NOTE: If the forward subwoofer is set to DEEP instead of DEFAULT, rear cardioid rejection will be significantly reduced.

The CARDIOD feature is optimized for both side-by-side and stacked configurations.



– Figure 6 –



– Figure 7 –

Side by Side (Fig. 6)

When floor space is available but vertical clearance is limited, placing the subwoofers side-by-side produces strong low frequency output with a slightly less symmetrical cardioid pattern.

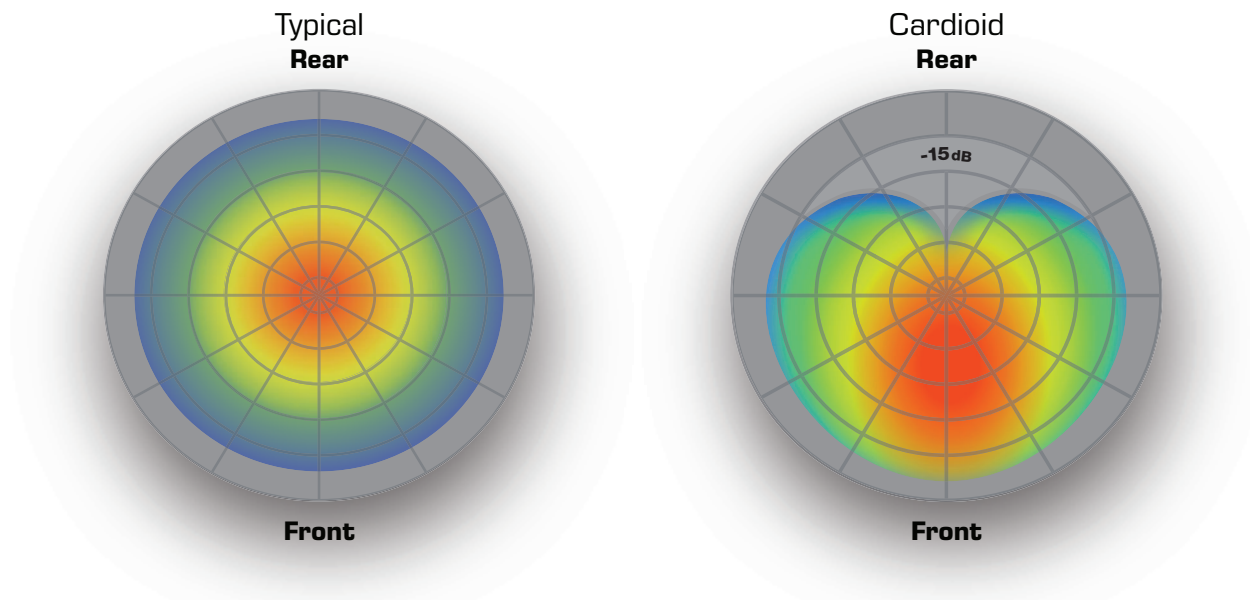
Stacked (Fig. 7)

When floor space is limited and vertical height is available, stacking the subwoofers with the CARDIOID REAR subwoofer on the bottom produces a more symmetrical cardioid pattern.

About Cardioid Subwoofer Radiation

The term cardioid refers to a heart-shaped coverage pattern of an audio device. For example, a cardioid microphone is most sensitive at the front (on-axis), and least at the rear (180 degrees off-axis). A cardioid subwoofer operates the same way and is loudest at the front and quietest at the rear.

Subwoofer Energy Dispersion



— Figure 8 —

Low frequency energy from a conventional subwoofer is effectively omnidirectional below 200 Hz. This is because the directivity of the subwoofer is related to the ratio of its size to the length of the sound wave it produces. The length of the sound wave is inversely proportional to its frequency, and therefore, when the low frequency waves are much longer than the dimensions of the subwoofer transducer and enclosure, the radiation pattern becomes more equal in all directions, including to the sides and back.

A cardioid subwoofer arrangement employs both front- and rear-firing woofers. Some clever use of spacing, delay, and polarity produces cancellation in the rear-firing energy and reinforcement in the forward-firing energy. Historically, creating cardioid subwoofer arrays has required the user to make complicated calculations involving physical spacing and signal processing. Two QSC subwoofer models make those calculations unnecessary.

COOLING

The CS Series subwoofers contain an internal power amplifier that produces heat. Allow a minimum of 15 cm (6 inches) clearance around the cabinet for convection cooling. Keep anything that might restrict airflow away from the rear of the enclosure (i.e. draperies, walls, etc.).



CAUTION! Do not operate the subwoofer with its amplifier module exposed to direct sunlight because overheating will cause its protection circuitry to reduce its maximum output. For full performance to specification, keep the ambient temperature to below 50° C (122° F). CS Series subwoofer enclosures are not weatherproof, so do not install them where they will be exposed to rain or other water sources. Do not install outdoors without also protecting them from the elements.

AC MAINS

See Figure 9.

AC Mains Disconnection

Use the power switch to turn the amplifier off. Unplug the AC mains cord from the power source. Grasp the plastic body of the IEC connector to pull it out; do not pull on the cord.

Turning Your CS Series Subwoofers On

Connect the AC power cord to the IEC socket on the back of the amplifier. Make sure it is fully inserted. If the cord is lost or damaged, a standard IEC power cord of 18 AWG/1 mm² or larger may be used in its place.



NOTE: Make sure that the AC power switch is OFF before connecting the AC power cord to the AC source.

Connect the AC power cord to the facility's AC outlet. The amplifier modules are equipped with a universal power supply that can use AC power voltages ranging from 100 to 240 VAC at 50 – 60 Hz.



WARNING! Use only the power cable that is appropriate for your location.

Power Switch

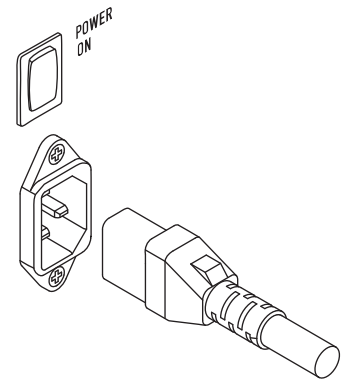
Use the rocker switch to apply AC mains power to the amplifier. When the amplifier is on, the blue POWER indicator LED comes on.

Rear POWER Indicator LED

If the LED does not come on within 3 seconds after the amplifier module is turned on, verify that the power cord is properly connected to both the subwoofer and the AC mains outlet. Make sure the outlet is functioning properly, too.



NOTE: If the power cord is good and the outlet is operating properly yet the subwoofer does not turn on, it may require servicing. Contact QSC Technical Services Group.



— Figure 9 —

System Power Sequencing

Proper power sequencing at turn on and turn off can help prevent audible thumps, clicks, and other noises in the system. Always follow the rule that loudspeakers and subwoofers are last on and first off.

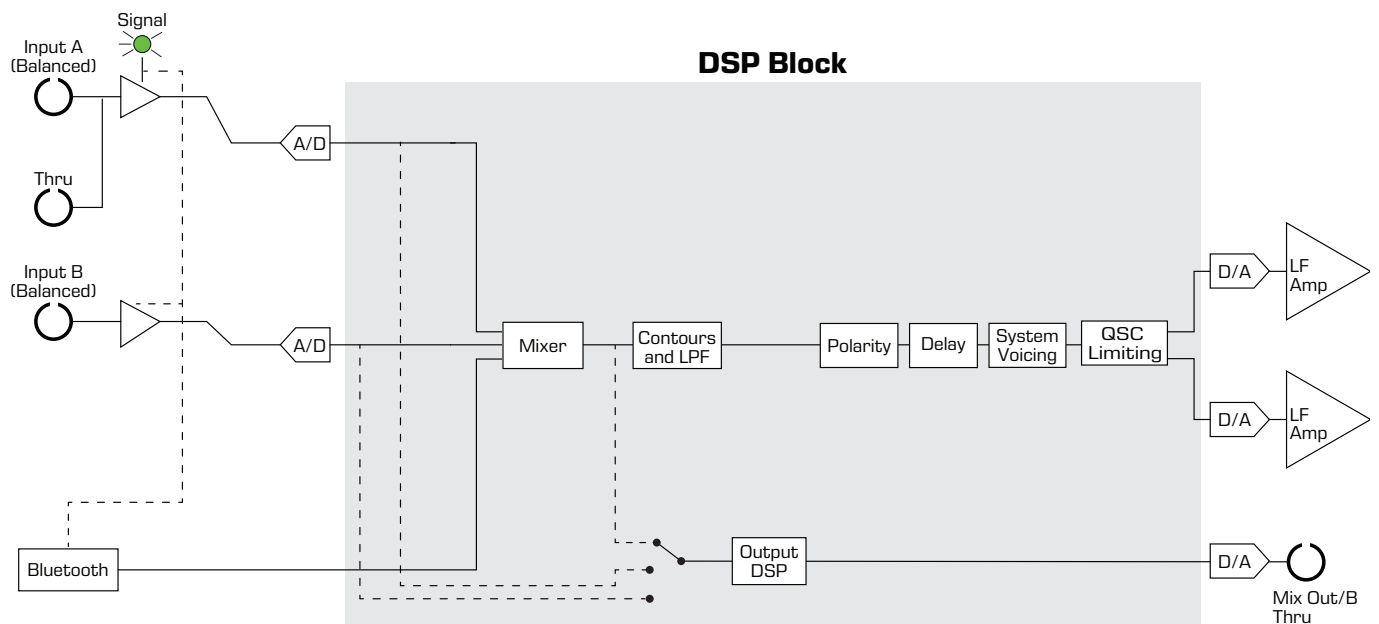
Turn-On Sequence:

1. Turn down the main faders (or other output level control) of the mixer (or other audio source) to minimum.
2. Turn on all the source devices and processors (CD players, mixers, instruments, etc.).
3. Turn on the CS Series subwoofers.
4. Turn on the top loudspeakers.
5. Bring up the faders or level controls on the mixer.

Turn-Off Sequence:

1. Turn off the top loudspeakers.
2. Turn off the CS Series subwoofers

BLOCK DIAGRAM



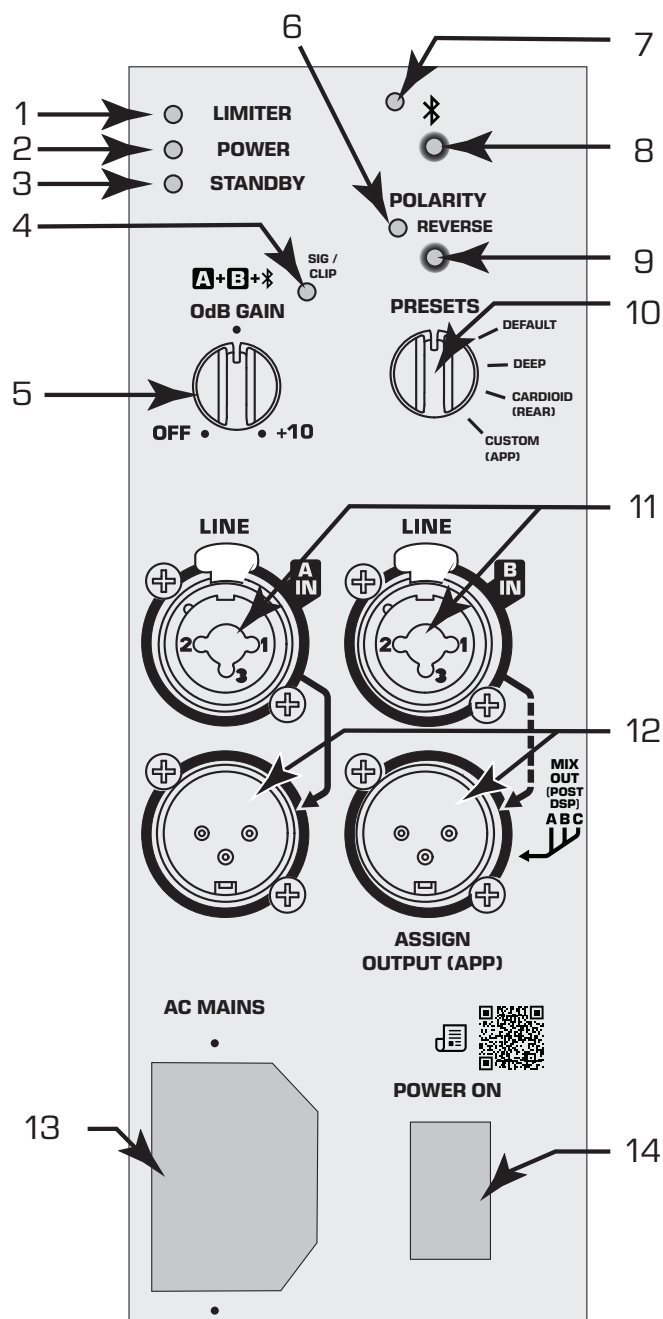
— Figure 10 —

INPUTS AND OUTPUTS

The CS Series subwoofer amplifier module has two female XLR / ¼-inch combination inputs and two corresponding pass-through male XLR outputs.

See Figure 11.

1. **LIMITER (red LED)** – Indicates QSC limiting protection has been engaged.
2. **POWER (blue LED)** – Indicates the module is powered on.
3. **STANDBY (amber LED)** – Indicates the module is in standby.
4. **CHANNEL SIGNAL INDICATORS** – Dual-color LED that is green when signal is detected and red when input clips.
5. **CHANNEL INPUT GAIN KNOB** – Detent potentiometer for each input channel.
6. **POLARITY INDICATOR (amber LED)** – Indicates the polarity button has been engaged, and the signal polarity is reversed.
7. **BLUETOOTH INDICATOR (blue LED)** – Signals when Bluetooth is active.
8. **BLUETOOTH BUTTON** – Push-button for Bluetooth selection and pairing.
9. **POLARITY BUTTON** – Push button that inverts speaker polarity.
10. **PRESETS KNOB** – 4-position detented potentiometer. Selections: Default, DEEP, Cardioid (REAR), and Custom (App).
11. **CHANNEL A and B INPUTS** – XLR – ¼-inch combination connector for full-range line-level balanced or unbalanced audio signals.
12. **CHANNEL A and B PASS-THROUGH CONNECTORS** – Use these to daisy-chain full-range audio signals to other loudspeakers, subwoofers, or to other audio equipment. Custom Out defaults to B and Bluetooth THRU. See the Loudspeaker Control App for more output options.



— Figure 11 —

13. **POWER INPUT** – Non-locking IEC.

14. **POWER SWITCH** – Rocker style.

Factory Reset

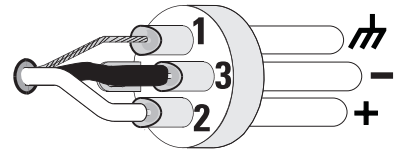
To restore factory default settings:

- Turn the power switch OFF.
- Press and hold the Bluetooth button while turning the power switch ON.
- The LEDs will briefly flash, and the subwoofer will restart.
- When the reset is complete, only the POWER LED will be illuminated if no input signal is present.

Balanced Inputs

Connect the XLR plug as shown in Figure 12.

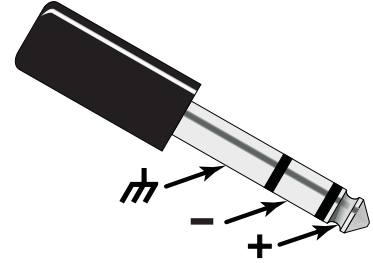
1.  Shield (ground)
2.  Positive
3.  Negative



— Figure 12 —

Connect the TRS (Tip-Ring-Sleeve) plug as shown in Figure 13. Do not use a TS (Tip-Sleeve) plug with a balanced signal.

1.  Shield (ground)
2.  Negative
3.  Positive



— Figure 13 —

Unbalanced Inputs

Connect the XLR plug.

1.  Shield (ground)
2.  Positive
3.  Negative

Connect the TRS or TS plug.

1.  Shield (ground)
2.  Negative
3.  Positive

(Page intentionally left blank.)



KNOWLEDGE BASE

Find answers to common questions, troubleshooting information, tips, and application notes. Link to support policies and resources, including software and firmware, product documents, and training videos. Create support cases.

support.qscaudio.com

CUSTOMER SUPPORT

Refer to the Contact Us page on the QSC website for Technical Support and Customer Care, including their phone numbers and hours of operation.

qscaudio.com/contact-us/

WARRANTY

For a copy of the QSC limited warranty visit the QSC website at www.qsc.com.

MANUFACTURER INFORMATION

QSC, LLC
1675 MacArthur Blvd.
Costa Mesa, CA 92626, USA

EU Representative

QSC EMEA GmbH
Am Ilvesbach 6, 74889 Sinsheim, Germany
Tel: +49 7261 6595 300
Email: info.emea@qsc.com
www.qsc.com

UK Representative

QSC UK & Ireland Ltd, Meadlake Place
Thorpe Lea Road, Egham TW20 8BF
United Kingdom