



*Great sound  
from Barcelona  
since 1972*

[www.amateaudio.com](http://www.amateaudio.com)

## User's manual

# CS7

July 2022

Amate Audio S.L.

EXPORT & CUSTOMER SERVICE  
Perpinyà, 25 · Polígon Industrial Nord  
08226 Terrassa · Barcelona – SPAIN  
T. +34 93 735 65 65  
[export@amateaudio.com](mailto:export@amateaudio.com)

R&D, FACTORY AND MANAGEMENT  
Violinista Vellsolà, 18  
08222 Terrassa · Barcelona – SPAIN  
T. +34 93 736 23 90  
[info@amateaudio.com](mailto:info@amateaudio.com)

## **Safety Instructions**

- 1.** All safety instructions must be read before using this device.
- 2.** Keep and follow these instructions
- 3.** Heed all warnings
- 4.** The exclamation mark in the triangle indicates internal components which if replaced can affect safety.
- 5.** The lightning symbol within the triangle indicates the presence of dangerous uninsulated voltages.
- 6.** Only clean the device with a dry cloth.
- 7.** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8.** Do not install the device near heat sources such as radiators, heaters or other heat-emitting elements.
- 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.** The equipment must be repaired by qualified technical service personnel when:
  - A.** The mains supply cable is damaged, or
  - B.** Any object or liquid has damaged the device; or
  - C.** The equipment does not function normally or correctly; or
  - D.** The equipment has been exposed to the rain; or
  - E.** The chassis is damaged
- 11.** Disconnect the device in the case of electric storms or during long periods of disuse.
- 12.** **WARNING** – To reduce the risk of fire or electric shock, do not expose this device to rain or moisture
- 13.** The equipment shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the device.
- 14.** For hanging and installation, use manufacturer recommended accessories only.

## 1. INTRODUCTION

### 1.1. General

Amate Audio would like to thank you for your confidence in our CS Series. We suggest you to read the following instructions carefully in order to obtain the best performance.

### 1.2. Features and presentation

Your new CS ceiling speaker is designed for indoor using. Thanks to its accurate design, it is ideal for multiple solutions, such as conference rooms, educational classrooms, boardrooms, presentation venues, training rooms or hotel lobbies.

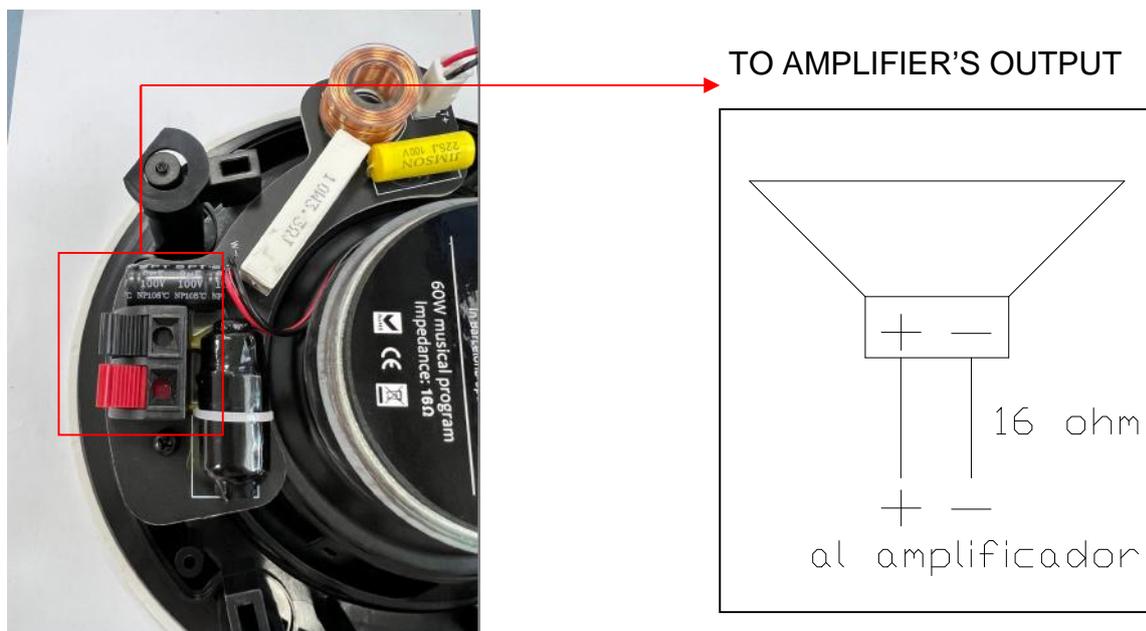
### CS7

- Two-way full range speaker system
- 6.5" coaxial speaker with polypropylene cone and rubber surround
- 1" titanium diaphragm neodymium
- Accurate designed crossover to achieve the best performance
- 16 impedance
- 100V line use with optional TF-100 transformer
- 60W musical program
- Sensitivity: 91 dB (1W/1m)
- Aluminium magnetic grille

## 2. CONNECTIONS

### 2.1. Connection description without TF-100 transformer

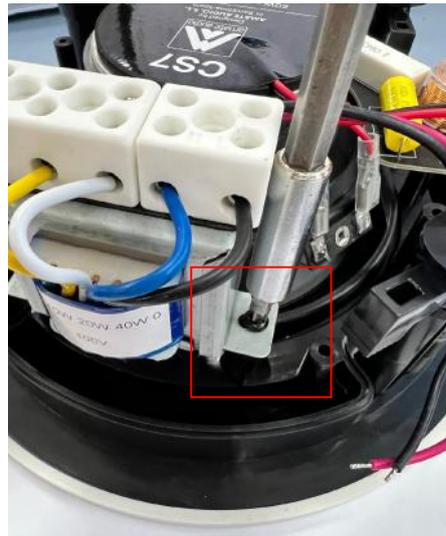
) Connect each speaker to the amplifier's output



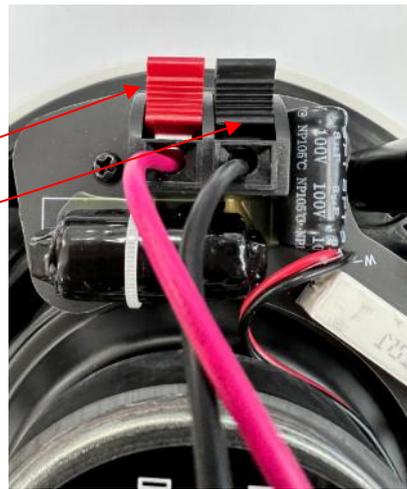
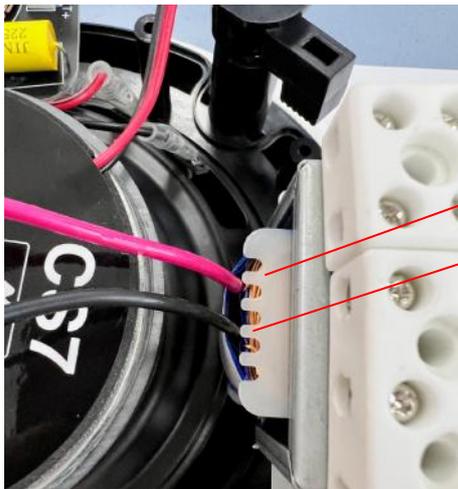
**Fig. 1.** CS7 wire connection (without TF-100 transformer)

## 2.2. Connection description with transformer

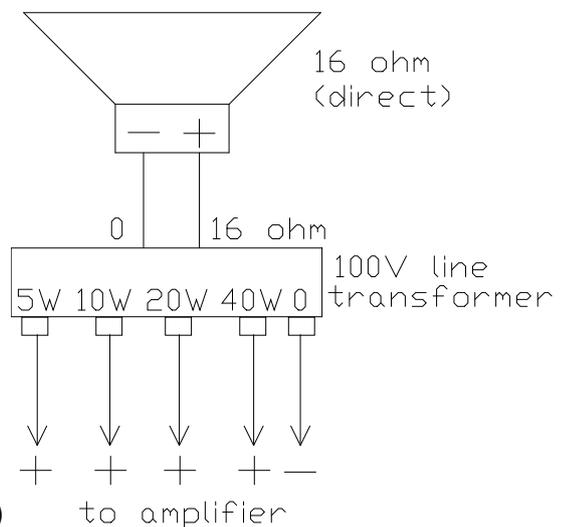
) Place the TF-100 transformer on top of the ceiling speaker's pillars. Screw it



) Connect the wiring from the transformer to the speaker (use both the red and black wire from the transformer). Red wire (16 ) must be connected in the red push terminal. Black wire (0) must be connected in the black push terminal



) Connect each speaker to the amplifier's output by choosing the appropriate setting (5W or 10W or 20W or 40W)



**Fig. 2.** CS7 wire connection (with transformer TF-100)

### 3. MOUNTING AND PLACEMENT

For a proper installation of the ceiling speaker, it is strongly recommended to read carefully the following advices.

- ) Use only good quality connection cables to avoid interferences, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- ) Avoid interference from neighbouring electrical appliances that may adversely influence signal quality
- ) Position your Amate Audio ceiling speaker away from moisture, excessive sunlight and dust

#### 3.1. Choosing the best location

Ideally, locate the speakers above the main listening area. Before doing so, be sure that:

- ) The desired location is free of obstructions, such as electrical piping, AC ducts or water lines
- ) There is enough space behind the mounting surface for the speakers
- ) Rear side of the speaker is not blocked by wall studs or other objects

#### 3.2. Cutting the ceiling tile

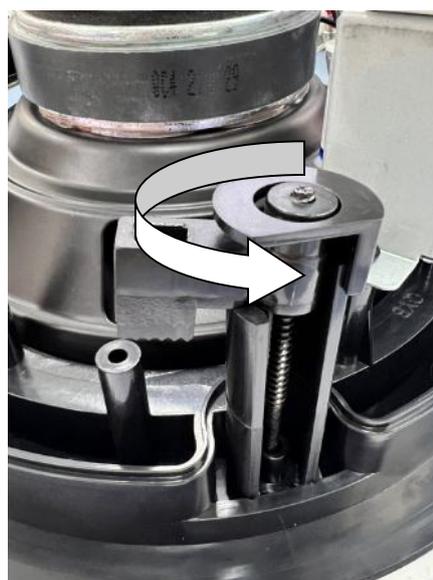
To cut the ceiling tile, do the following:

- ) Remove the paper circle in the supplied template
- ) Mark the opening in the correct location by tracing the hole in the template
- ) Cut out the hole according to the template or with a circular cutter set to the appropriate cut-out size. Initially, you can cut a smaller area inside the marked hole just to be sure that the space above the speaker is clear

#### 3.3. Mounting the speaker

To install the ceiling speaker, do the following:

- ) Remove the grille
- ) Connect the speaker wires to the appropriate connector terminals
- ) Push the speaker into the ceiling hole until the front baffle rim is levelled with the ceiling
- ) Tighten the mounting tabs by turning the screw counter clockwise. When tightening the mounting tabs, the tabs automatically turn outward, thus clamping the speaker to the wall from its rear side. Do not over-tighten the screws as it may cause damage to both the speaker and the surface.
- ) Put the grille



#### 4. TECHNICAL FEATURES

	<b>CS7</b>
<b>Power handling</b>	
R.M.S	30 W (direct)
Program	60 W (direct) 100 V Line (5 W/10 W/20 W/40 W)
<b>Components</b>	1x 6.5" coaxial woofer
<b>Frequency response (-10dB)</b>	60 Hz – 20k Hz
<b>Sensitivity</b>	91 dB
<b>Impedance</b>	16
	100 V Line (2k /1k /500 /250 )
<b>Connections</b>	Push terminals
<b>Dimensions (ØExt/ØInt)</b>	238 mm / 203 mm
<b>Depth (inner)</b>	96 mm
<b>Weight</b>	1.4 Kg

**Note:** Specifications subjected to change without prior notice.

#### 5. WARRANTY CERTIFICATE

All Amate Audio products have been produced under strict manufacturing practices and have passed rigorous quality controls to guarantee excellent, long term performance, even under the harshest conditions. Amate Audio s.l. extends its Warranty Certificates for each group of products according to its technological characteristics, to cover manufacturing defects of the product or any of its components, including and providing for their repair or replacement. The validity period depends on the particular Series or product group, and is determined as follows:

##### Validity period

The warranty is effective from the date of purchase of the product, being valid on presentation of the corresponding purchase invoice that shows the manufacturer's original serial number, matching that displayed on the identification label on the product. Any product that does not have the corresponding serial number may be excluded of any warranty rights by unilateral decision of our Commercial Department.

##### Product group WARRANTY CONDITIONS

) Power Amplifiers & Digital (DSP) loudspeaker management systems  
**THREE** years, related to all circuits and electronic components (in solid state).

) Passive acoustic cabinets

**TWO** years for all components (transducers, passive crossovers, and connectors); provided that the cause of the damage is due to a manufacturing defect or the malfunctioning of any of its components.

) Active acoustic cabinets

**TWO** years for all components (including transducers, amplification and the rest of control and processing circuits).

##### Warranty exceptions

The aforementioned warranty periods will not apply when:

- ) Mechanical parts and components, such as potentiometers, commutators, switches, and connectors, show signs of inappropriate use or presence of solid or liquid foreign object.
- ) Loudspeakers and transducers show signs of damage caused by overheating or excess of continuous temperature (burned voice coils or diaphragms) or displacement of the magnetic core by force or shock.
- ) Parts handled by the user, such as connectors or painted wooden cabinet, show signs of abuse, shock, exposure to continuous and excessive humidity, or general mistreatment.
- ) The equipment is damaged by improper use (e.g. failure to comply with the operations described in the User's Manual; incorrect connection, etc.), mistreatment or accidental misuse, the attempted service, repair or modification by anyone other than an Authorized Technical Service agent, authorized by our Authorized Technical Service (ATS).

### **In the case of damaged product**

Please contact your local dealer or check our website [www.amateaudio.com](http://www.amateaudio.com) to find your nearest distributor to apply for a RMA (Return Merchandise Authorization) procedure. When returning equipment to a Technical Service office, we recommend that you take the necessary measures to protect the product to avoid the possibility of damage or wear and tear during transit. When returning a defective product, it should be sent back in its original packaging with all its accessories and internal protection elements. Amate Audio reserves the right not to accept any returned product where packaging is damaged. Upon receipt of the material, the Authorized Technical Service agent will make an assessment of the damage and determine the cost of repair or, if applicable, the extent to which it is covered by the warranty.

### **Warranty Rights**

The product indicated in the purchase invoice is for professional use, and is protected under law 23/2003 of July 10th about Warranties in the Sale of Consumer Goods. Notwithstanding, Amate Audio voluntarily grants WARRANTY over possible defects in manufacturing for the above mentioned period for each specified Series or product group.

Conditions: the buyer has been informed as to the required maintenance of the material purchased in order to keep it in perfect working order. The purchaser has received an instruction manual with the technical characteristics and instructions for the correct use of the acquired product. The buyer, on receipt of the product, inspects the material to ensure there is no visible damage or defect and that it functions correctly, as described.

Amate Audio S.L. thanks you for your confidence in purchasing our product. We trust that you will enjoy many years of satisfactory use and continuous performance, and looks forward to maintaining that confidence into the future.



*Great sound  
from Barcelona  
since 1972*

---

**CS7** loudspeaker system has been  
designed in  
Barcelona – SPAIN by

---

**Amate Audio S.L.**

Perpinyà, 25 · Polígon Industrial Nord · 08226 Terrassa  
T. +34 93 735 65 65 – F. +34 93 735 60 48 –  
info@amateaudio.com

R+D and Factory:  
Violinista Vellsolà, 18 · 08222 Terrassa  
T. +34 93 736 23 90 – F. +34 93 786 47 00

**Barcelona – SPAIN**

---

[www.amateaudio.com](http://www.amateaudio.com)



*Great sound  
from Barcelona  
since 1972*

[www.amateaudio.com](http://www.amateaudio.com)

## User's manual

# CS7

July 2022

Amate Audio S.L.

EXPORT & CUSTOMER SERVICE  
Perpinyà, 25 · Polígon Industrial Nord  
08226 Terrassa · Barcelona – SPAIN  
T. +34 93 735 65 65  
[export@amateaudio.com](mailto:export@amateaudio.com)

R&D, FACTORY AND MANAGEMENT  
Violinista Vellsolà, 18  
08222 Terrassa · Barcelona – SPAIN  
T. +34 93 736 23 90  
[info@amateaudio.com](mailto:info@amateaudio.com)

## **Safety Instructions**

1. All safety instructions must be read before using this device.
2. Keep and follow these instructions
3. Heed all warnings
4. The exclamation mark in the triangle indicates internal components which if replaced can affect safety.
5. The lightning symbol within the triangle indicates the presence of dangerous uninsulated voltages.
6. Only clean the device with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install the device near heat sources such as radiators, heaters or other heat-emitting elements.
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. The equipment must be repaired by qualified technical service personnel when:
  - A. The mains supply cable is damaged, or
  - B. Any object or liquid has damaged the device; or
  - C. The equipment does not function normally or correctly; or
  - D. The equipment has been exposed to the rain; or
  - E. The chassis is damaged
11. Disconnect the device in the case of electric storms or during long periods of disuse.
12. **WARNING** – To reduce the risk of fire or electric shock, do not expose this device to rain or moisture
13. The equipment shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the device.
14. For hanging and installation, use manufacturer recommended accessories only.

## 1. INTRODUCTION

### 1.1. General

Amate Audio would like to thank you for your confidence in our CS Series. We suggest you to read the following instructions carefully in order to obtain the best performance.

### 1.2. Features and presentation

Your new CS ceiling speaker is designed for indoor using. Thanks to its accurate design, it is ideal for multiple solutions, such as conference rooms, educational classrooms, boardrooms, presentation venues, training rooms or hotel lobbies.

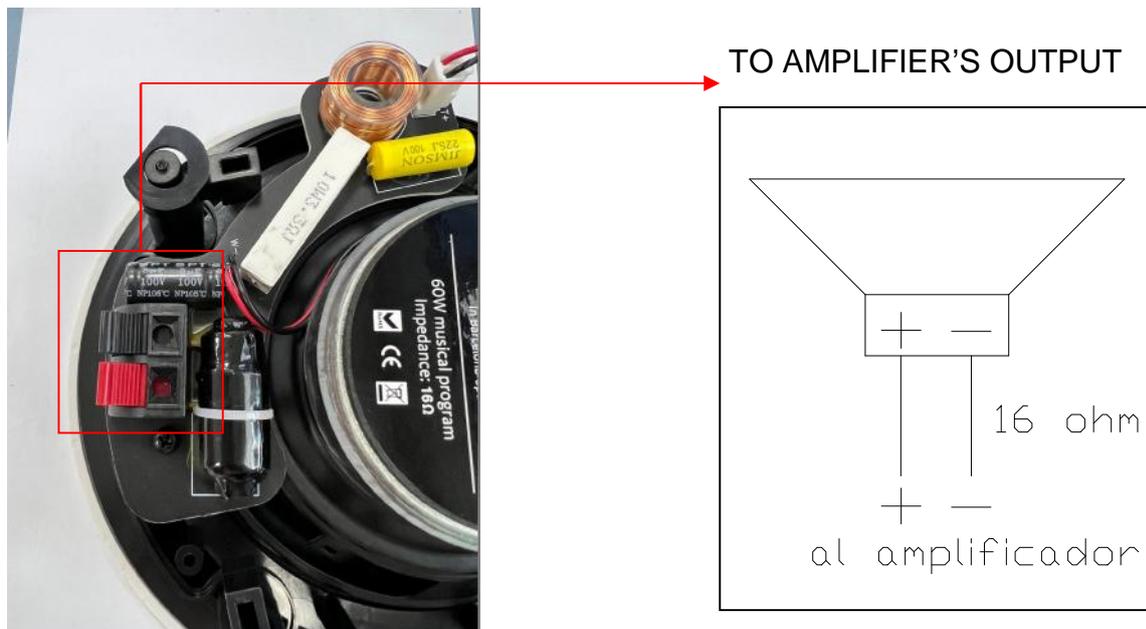
### CS7

- Two-way full range speaker system
- 6.5" coaxial speaker with polypropylene cone and rubber surround
- 1" titanium diaphragm neodymium
- Accurate designed crossover to achieve the best performance
- 16 impedance
- 100V line use with optional TF-100 transformer
- 60W musical program
- Sensitivity: 91 dB (1W/1m)
- Aluminium magnetic grille

## 2. CONNECTIONS

### 2.1. Connection description without TF-100 transformer

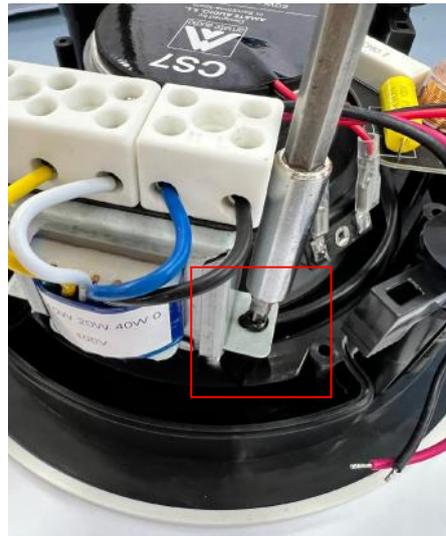
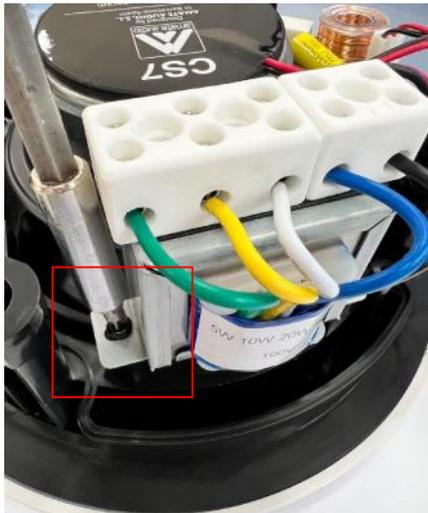
) Connect each speaker to the amplifier's output



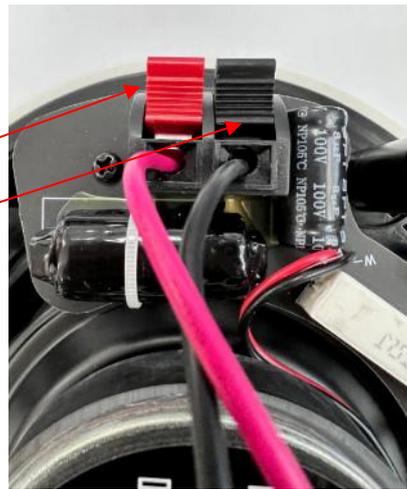
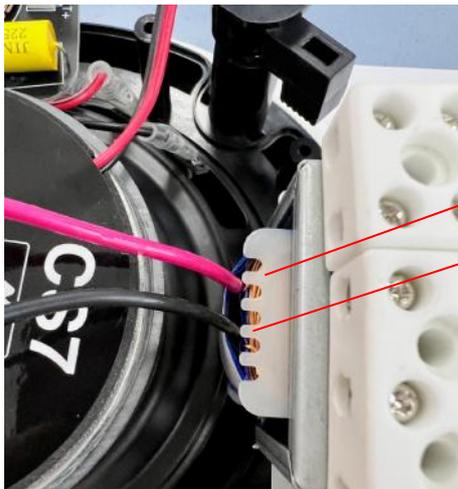
**Fig. 1.** CS7 wire connection (without TF-100 transformer)

## 2.2. Connection description with transformer

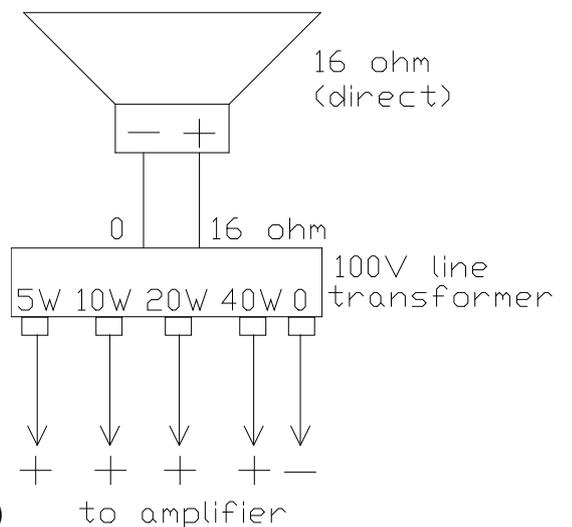
) Place the TF-100 transformer on top of the ceiling speaker's pillars. Screw it



) Connect the wiring from the transformer to the speaker (use both the red and black wire from the transformer). Red wire (16 ) must be connected in the red push terminal. Black wire (0) must be connected in the black push terminal



) Connect each speaker to the amplifier's output by choosing the appropriate setting (5W or 10W or 20W or 40W)



**Fig. 2.** CS7 wire connection (with transformer TF-100)

### 3. MOUNTING AND PLACEMENT

For a proper installation of the ceiling speaker, it is strongly recommended to read carefully the following advices.

- ) Use only good quality connection cables to avoid interferences, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- ) Avoid interference from neighbouring electrical appliances that may adversely influence signal quality
- ) Position your Amate Audio ceiling speaker away from moisture, excessive sunlight and dust

#### 3.1. Choosing the best location

Ideally, locate the speakers above the main listening area. Before doing so, be sure that:

- ) The desired location is free of obstructions, such as electrical piping, AC ducts or water lines
- ) There is enough space behind the mounting surface for the speakers
- ) Rear side of the speaker is not blocked by wall studs or other objects

#### 3.2. Cutting the ceiling tile

To cut the ceiling tile, do the following:

- ) Remove the paper circle in the supplied template
- ) Mark the opening in the correct location by tracing the hole in the template
- ) Cut out the hole according to the template or with a circular cutter set to the appropriate cut-out size. Initially, you can cut a smaller area inside the marked hole just to be sure that the space above the speaker is clear

#### 3.3. Mounting the speaker

To install the ceiling speaker, do the following:

- ) Remove the grille
- ) Connect the speaker wires to the appropriate connector terminals
- ) Push the speaker into the ceiling hole until the front baffle rim is levelled with the ceiling
- ) Tighten the mounting tabs by turning the screw counter clockwise. When tightening the mounting tabs, the tabs automatically turn outward, thus clamping the speaker to the wall from its rear side. Do not over-tighten the screws as it may cause damage to both the speaker and the surface.
- ) Put the grille



#### 4. TECHNICAL FEATURES

	<b>CS7</b>
<b>Power handling</b>	
R.M.S	30 W (direct)
Program	60 W (direct) 100 V Line (5 W/10 W/20 W/40 W)
<b>Components</b>	1x 6.5" coaxial woofer
<b>Frequency response (-10dB)</b>	60 Hz – 20k Hz
<b>Sensitivity</b>	91 dB
<b>Impedance</b>	16
	100 V Line (2k /1k /500 /250 )
<b>Connections</b>	Push terminals
<b>Dimensions (ØExt/ØInt)</b>	238 mm / 203 mm
<b>Depth (inner)</b>	96 mm
<b>Weight</b>	1.4 Kg

**Note:** Specifications subjected to change without prior notice.

#### 5. WARRANTY CERTIFICATE

All Amate Audio products have been produced under strict manufacturing practices and have passed rigorous quality controls to guarantee excellent, long term performance, even under the harshest conditions. Amate Audio s.l. extends its Warranty Certificates for each group of products according to its technological characteristics, to cover manufacturing defects of the product or any of its components, including and providing for their repair or replacement. The validity period depends on the particular Series or product group, and is determined as follows:

##### Validity period

The warranty is effective from the date of purchase of the product, being valid on presentation of the corresponding purchase invoice that shows the manufacturer's original serial number, matching that displayed on the identification label on the product. Any product that does not have the corresponding serial number may be excluded of any warranty rights by unilateral decision of our Commercial Department.

##### Product group WARRANTY CONDITIONS

) Power Amplifiers & Digital (DSP) loudspeaker management systems  
**THREE** years, related to all circuits and electronic components (in solid state).

) Passive acoustic cabinets  
**TWO** years for all components (transducers, passive crossovers, and connectors); provided that the cause of the damage is due to a manufacturing defect or the malfunctioning of any of its components.

) Active acoustic cabinets  
**TWO** years for all components (including transducers, amplification and the rest of control and processing circuits).

##### Warranty exceptions

The aforementioned warranty periods will not apply when:

- ) Mechanical parts and components, such as potentiometers, commutators, switches, and connectors, show signs of inappropriate use or presence of solid or liquid foreign object.
- ) Loudspeakers and transducers show signs of damage caused by overheating or excess of continuous temperature (burned voice coils or diaphragms) or displacement of the magnetic core by force or shock.
- ) Parts handled by the user, such as connectors or painted wooden cabinet, show signs of abuse, shock, exposure to continuous and excessive humidity, or general mistreatment.
- ) The equipment is damaged by improper use (e.g. failure to comply with the operations described in the User's Manual; incorrect connection, etc.), mistreatment or accidental misuse, the attempted service, repair or modification by anyone other than an Authorized Technical Service agent, authorized by our Authorized Technical Service (ATS).

### **In the case of damaged product**

Please contact your local dealer or check our website [www.amateaudio.com](http://www.amateaudio.com) to find your nearest distributor to apply for a RMA (Return Merchandise Authorization) procedure. When returning equipment to a Technical Service office, we recommend that you take the necessary measures to protect the product to avoid the possibility of damage or wear and tear during transit. When returning a defective product, it should be sent back in its original packaging with all its accessories and internal protection elements. Amate Audio reserves the right not to accept any returned product where packaging is damaged. Upon receipt of the material, the Authorized Technical Service agent will make an assessment of the damage and determine the cost of repair or, if applicable, the extent to which it is covered by the warranty.

### **Warranty Rights**

The product indicated in the purchase invoice is for professional use, and is protected under law 23/2003 of July 10th about Warranties in the Sale of Consumer Goods. Notwithstanding, Amate Audio voluntarily grants WARRANTY over possible defects in manufacturing for the above mentioned period for each specified Series or product group.

Conditions: the buyer has been informed as to the required maintenance of the material purchased in order to keep it in perfect working order. The purchaser has received an instruction manual with the technical characteristics and instructions for the correct use of the acquired product. The buyer, on receipt of the product, inspects the material to ensure there is no visible damage or defect and that it functions correctly, as described.

Amate Audio S.L. thanks you for your confidence in purchasing our product. We trust that you will enjoy many years of satisfactory use and continuous performance, and looks forward to maintaining that confidence into the future.



*Great sound  
from Barcelona  
since 1972*

---

**CS7** loudspeaker system has been  
designed in  
Barcelona – SPAIN by

---

**Amate Audio S.L.**

Perpinyà, 25 · Polígon Industrial Nord · 08226 Terrassa  
T. +34 93 735 65 65 – F. +34 93 735 60 48 –  
info@amateaudio.com

R+D and Factory:  
Violinista Vellsolà, 18 · 08222 Terrassa  
T. +34 93 736 23 90 – F. +34 93 786 47 00

**Barcelona – SPAIN**

---

[www.amateaudio.com](http://www.amateaudio.com)