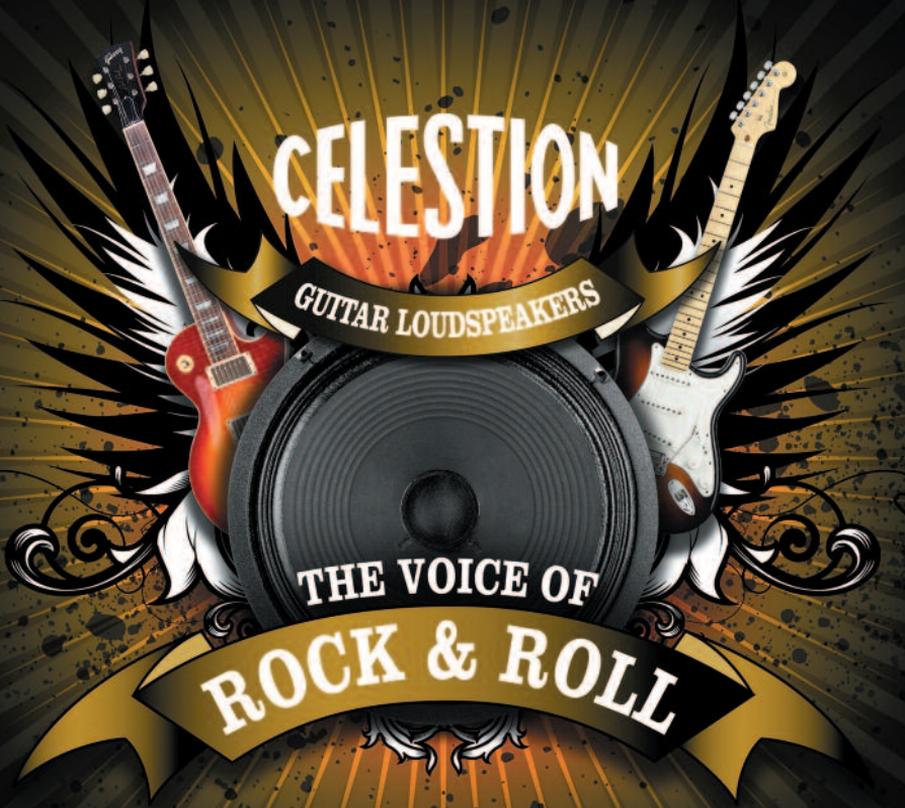


# CELESTION



CELESTION

GUITAR LOUDSPEAKERS

THE VOICE OF

ROCK & ROLL

**YOUR FREE GUIDE  
TO RELOADING WITH  
CELESTION LOUDSPEAKERS**

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

# CLASSIC SERIES

## G10 GREENBACK

This speaker adds real class to small combos and when combined in a 4x10 provides a raunchy full-bodied tone rich in low-end thump.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .10", 254mm      Nominal impedance . . . . .8Ω & 16Ω  
Power rating . . . . .30W      Sensitivity . . . . .95dB



## VINTAGE 30

Delivering enormously detailed, complex overtones, with an intricate vintage 3-D crunch, for players as diverse as Slash, Steve Stevens and Peter Frampton.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .12", 305mm      Nominal impedance . . . . .8Ω & 16Ω  
Power rating . . . . .60W      Sensitivity . . . . .100dB



## CLASSIC LEAD 80

A strong mid/bass punch for real presence when playing power chords and a controlled top-end that gives great projection for solos.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .12", 305mm      Nominal impedance . . . . .8Ω & 16Ω  
Power rating . . . . .80W      Sensitivity . . . . .99dB



## G12M GREENBACK

Ideal for bringing drive and definition to modern amps, the G12M can be used singly in low-power combos or in multiples for high-power rock heads.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .12", 305mm      Nominal impedance . . . . .8Ω & 16Ω  
Power rating . . . . .25W      Sensitivity . . . . .98dB



## G12H ANNIVERSARY

Provides serious attitude to soft amp tones, easily cutting through loud stage levels for chord work and imparting a hard edge to single notes.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .12", 305mm      Nominal impedance . . . . .8Ω & 16Ω  
Power rating . . . . .30W      Sensitivity . . . . .100dB



## G12T-75

Weapon of choice for Yngwie Malmsteen, the G12T-75 is a high powered rock player's dream with a tight low-end and aggressive mid-range.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .12", 305mm      Nominal impedance . . . . .8Ω & 16Ω  
Power rating . . . . .75W      Sensitivity . . . . .97dB



## G12K-100

In 4x12s the G12K-100 delivers sledgehammer lows, as favoured by Slayer's Kerry King. In boutique combos it delivers low-end warmth and mid-range attack.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .12", 305mm      Nominal impedance . . . . .8Ω  
Power rating . . . . .100W      Sensitivity . . . . .99dB



## G12 CENTURY VINTAGE

The G12 Century Vintage exhibits a clear, powerful mid-range and bright top-end with superb fast attack and tracking. Ideal for speed pickers.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .12", 305mm      Nominal impedance . . . . .8Ω & 16Ω  
Power rating . . . . .60W      Sensitivity . . . . .98dB



## G10N-40

The G10N-40 is characterised by satisfyingly deep lows that are complemented by sweet and clear upper mids and an articulate, well-defined top end.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .10", 254mm      Nominal impedance . . . . .8Ω & 16Ω  
Power rating . . . . .40W      Sensitivity . . . . .95dB



## G10 VINTAGE

A worthy successor to the Vintage 10, the G10 Vintage is a 10" speaker with bags of attitude. Perfect for adding extra girth to small valve amplifiers.

### GENERAL SPECIFICATIONS

Nominal diameter . . . . .10", 254mm      Nominal impedance . . . . .8Ω & 16Ω  
Power rating . . . . .60W      Sensitivity . . . . .97dB



# THE VOICE OF ROCK AND ROLL

Since the early days of rock & roll, great guitar players have insisted on using Celestion speakers to give voice to their talents. In turn, these legendary musicians have inspired and assisted Celestion to create a range of speakers widely acknowledged by players and amp builders alike to be the very finest available.

We've produced this guide to help you decide which Celestion is right for your voice, and how you can replace your existing speaker, quickly and safely. Good luck in your quest for tone!

<b>G12 EVH</b>		
<p>"Since Day One, Celestion speakers have been a big part of my sound." Edward Van Halen</p>		
<b>GENERAL SPECIFICATIONS</b>		
Nominal diameter . . . . .12", 305mm Power rating . . . . .20W	Nominal impedance . . . . .8Ω & 15Ω Sensitivity . . . . .96dB	

## ALNICO SERIES

<b>CELESTION BLUE</b>		
<p>From the '60s British invasion to players like Brian May, the Blue is the benchmark for guitar speaker perfection - warm lows, mellow mids and bell-like highs.</p>		
<b>GENERAL SPECIFICATIONS</b>		
Nominal diameter . . . . .12", 305mm Power rating . . . . .15W	Nominal impedance 8Ω & 15Ω Sensitivity . . . . .100dB	

<b>CELESTION GOLD</b>		
<p>A wonderfully expressive and revealing 50-watt Alnico speaker, whether picking and bending with Brad Paisley, or rocking hard with Dan Spitz of Anthrax.</p>		
<b>GENERAL SPECIFICATIONS</b>		
Nominal diameter . . . . .12", 305mm Power rating . . . . .50W	Nominal impedance . . . . .8Ω & 15Ω Sensitivity . . . . .100dB	

<b>CELESTION G10 GOLD</b>		
<p>The G10 Gold is the ultimate 10" speaker, blending unmistakable Alnico class with a rich low-end, creamy mid-range and vintage chiming top-end.</p>		
<b>PRELIMINARY SPECIFICATIONS</b>		
Nominal diameter . . . . .10", 254mm Power rating . . . . .40W	Nominal impedance . . . . .8Ω & 15Ω Sensitivity . . . . .98dB	

## HERITAGE SERIES

<b>G12-65</b>		
<p>A combination of aggressive crunch and mid-range warmth made the G12-65 a firm favourite in the early '80s with blues and hard rock players.</p>		
<b>GENERAL SPECIFICATIONS</b>		
Nominal diameter . . . . .12", 305mm Power rating . . . . .65W	Nominal impedance . . . . .8Ω & 15Ω Sensitivity . . . . .97dB	

<b>G12M</b>		
<p>The classic 'Greenback' G12M is characterised by a controlled low-end, warm mids and detailed highs. A classic 4x12 speaker for vintage crunch.</p>		
<b>GENERAL SPECIFICATIONS</b>		
Nominal diameter . . . . .12", 305mm Power rating . . . . .20W	Nominal impedance . . . . .8Ω & 15Ω Sensitivity . . . . .96dB	

<b>G12H</b>		
<p>Just listen to any Hendrix recording and chances are you'll be hearing a G12H. One of the best choices for classic late 60s rock guitar tones.</p>		
<b>GENERAL SPECIFICATIONS</b>		
Nominal diameter . . . . .12", 305mm Power rating . . . . .30W	Nominal impedance 8Ω & 15Ω Sensitivity . . . . .100dB	

# LOADING SPEAKERS INTO YOUR GUITAR CABINET

## SAFETY FIRST



PLEASE READ BEFORE ATTEMPTING ANY WORK.

Ensure you have unplugged the amp from the mains electricity supply. Some amps, particularly those fitted with vacuum tubes, can retain dangerous voltages inside the chassis after they have been switched off and disconnected from the mains supply. Allow sufficient time for voltage discharge and tube cooling before following these steps.

Guitar speakers have large magnets which can affect audiovisual equipment including, but not limited to, television screens and computer monitors. Pick your location carefully and make sure you have plenty of room in which to work.

## THE BASICS

### 1. POWER HANDLING

Speakers must be capable of taking at least as much power as the amp puts out, or you risk damaging them. So, for a single speaker, pick one with a power rating the same or higher than the amp itself. For a twin speaker combo the minimum speaker power rating is half that of the amp and for a cabinet with four speakers it will be a quarter of the amp's maximum power output.

### 2. IMPEDANCE

Just as important as power rating is impedance - given in Ohms (written -  $\Omega$ ). If you use the wrong value, then the amp may be damaged. Ensure that your new speaker has the same impedance as the speaker it is replacing. So, if you're taking out an  $8\Omega$  speaker, make sure the replacement is also rated  $8\Omega$ . (Note - some vintage speakers are rated at  $15\Omega$ , you can use these to replace a  $16\Omega$  without fear of damage.)

## ESSENTIAL TOOLS

Here's what you'll need:

1. The combo amplifier/cabinet you'll be working on and the Celestion speakers you're going to load into it.
2. A screwdriver to remove the back panel of the combo/cabinet.
3. The appropriate tool for the speaker bolts, for example a multi-wrench, allen key or screwdriver. Note that this will vary depending on the make of your combo/cabinet so be sure to check first.
4. Pen and paper for making a note of the existing wiring connections.
5. Pliers and electrical tape.
6. Wire cutters/strippers and soldering equipment (required for speakers with a 'solder only' tag panel).

### STEP 1

Make sure the amp is disconnected from the mains supply and you have allowed sufficient time for the tubes (if fitted) to cool down and discharge any residual voltage if you have used it recently.

Check the terminals - are they 'push on' connectors or 'solder only' ?



Push on



Solder only

### STEP 2

Remove the back panel from your combo/cabinet (where fitted) and make a note of which color wire goes to the + terminal of the speaker.



### STEP 3

Disconnect the wires and get them safely out of the way using tape. Next, ensure the terminals are cleaned to achieve the best connection.

Undo the bolts, then carefully remove the speaker(s) taking care not to damage the cone or anything inside your amp. Careful - you may find the speaker is slightly stuck to the front baffle and comes free suddenly. Place the speaker face down on a flat surface.



### STEP 4

Carefully insert and bolt in the new speaker (take care when handling so as not to damage the cone). Finger tighten all bolts then tighten them with the appropriate tool, securing diagonally opposite bolts in sequence.

Hand tight is fine, this will ensure that you don't bend the speaker frame.



### STEP 5

Connect the new speaker according to the wiring diagram you made earlier. Make sure all connections are solid and secure (you may need to tighten the clips using a pair of pliers.) If soldering, take precautions to ensure that hot solder cannot drip on to the speaker cone - it will cause damage. Re-check the wiring is correct!



### STEP 6

Once you're confident that the wiring is correct, plug in and turn on at low volume. Check for buzzes or anything untoward.

When everything sounds OK, put the panels back and you're ready to go.



Visit [www.celestion.com/guitar/loadingyourspeakers](http://www.celestion.com/guitar/loadingyourspeakers) for more details on two and four speaker wiring configurations.

## BREAKING IN YOUR SPEAKER

Brand new speakers usually require a "breaking in period". Start with a few minutes of low-level playing or background hum. Next, turn up the power amp volume to full, control the level with the preamp gain and play with a fat, clean tone. Have the bass and mid up full, and the treble set to at least half. On your guitar, use the middle pickup position (if your guitar has more than one pickup) and play for 10-15 minutes using lots of open chords, and chunky percussive playing. This will get the cone moving, and should excite all the cone modes and get everything to settle in nicely.



**DISCLAIMER**

This "Loading Speakers into Your Guitar Cabinet" feature is a general guide to loading a Celestion speaker into your combo amplifier or guitar speaker cabinet. Note that all manufacturers products differ slightly and the photographs shown herein are for illustrative purposes only. Likewise, the descriptive text is included as guideline advice and further operational steps may be necessary to complete speaker loading for specific combo amplifier or cabinet models.

Appropriate safety precautions should always be taken when following the advice herein. Celestion accepts no responsibility for any personal injury or damage to equipment arising from attempting a speaker replacement. If you are in doubt about any aspect of this advice, please consult a professional amplifier dealer or repair shop.