

13 KS SUBWOOFER MANUAL

Congratulations on purchasing the mini subwoofer 13KS, from the range K2 Power. We are happy you share our passion, for the "the Spirit of Sound".

K2 Power subwoofers contain the very latest enhanced technologies, for high power handling, and unrivalled sound quality.

To obtain the best results from this product, we recommend that you follow carefully all the information contained in this users manual. If not followed correctly any fault observed, may not be covered by the guarantee.

The Focal-JMLab guarantee only applies if the enclosed guarantee card is returned to us within 10 days of purchase.



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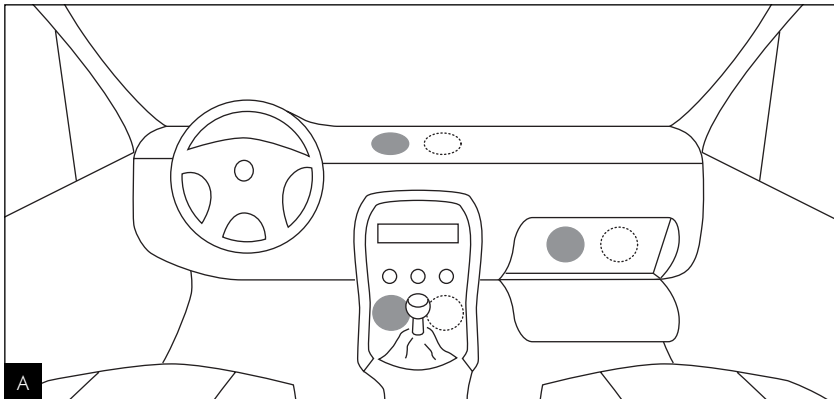
Due to constant technological advances, Focal reserves its right to modify specifications without notice. Images may not conform exactly to specific product.

Running-in Period

The 13 KS mini subwoofer incorporates the very latest components. For the subwoofer to benefit, a running-in period must be used. Changes in temperature and humidity are regarded as very hostile. We recommend that once the system is ready for listening the subwoofers should be run-in at medium volume setting. The use of audio material that contains good low frequencies is ideal to gain their full potential. We recommend this running period be used for at least one week.

Installation tips

A basic hole cut to a diameter of 115mm is necessary for mounting the subwoofer. The inclusion of the foam gasket for correct airtight installation is highly recommended. Carefully attach to the chassis, then use the supplied fixing screws to ensure the subwoofer remains securely mounted in place.

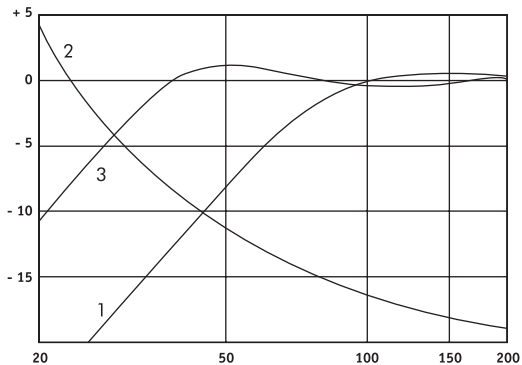


A

1 - 13 KS frequency response curve

2 - Compensation of vehicle

3 - 13 KS frequency response curve in vehicle



B

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General use / applications

The 13 KS mini subwoofer is a high pedigree contender, even at competition install level. Carefully optimised to work in small volumes allows easy install into normally awkward front locations of the vehicle (dashboard centrally mounted), (**fig A**). The 13 KS can equally be used to boost the front bass frequencies inside the vehicle. This key feature ensures correct “staging” is observed, for improved system integration.

Enclosure volume

Designed for small volumes of around 5 liters (0.18 ft³), the 13 KS has an added advantage, allowing the possibility to link 2 units together in parallel. This advantage is due to the comparatively high impedance value of 5 ohms. When linking 2 subwoofers together, requires the enclosure volume to be doubled in size.

Cut-off frequency of approximately 73Hz-3dB, ensures easy integration into the rest of the system. Internal bass modes present inside the vehicle, allow low frequencies in the range of 30Hz to be achieved (**fig B**).

Conditions of guarantee

All Focal loudspeakers are covered by guarantee drawn up by the official Focal distributor in your country.

Your distributor can provide all details concerning the conditions of guarantee. Guarantee cover extends at least to that granted by the legal guarantee in force in the country where the original purchase invoice was issued.

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Specifications

Nominal power	80W	
Maximum power	160W	
Sensitivity	85dB	
Cone	K2 Composite Sandwich®	
Surround	Butyl	
Nom. impedance	8 ohms	
DC resistance	5.2 ohms	
VC diameter	40mm	1.57in
VC height	22mm	0.86in
Former	Kapton®	
Wire	Flat Copper	
Inductance	1mH	
Xmax	8mm	0.35in
Magnet d x h	100x18mm	3.93x0.70in
Magnet weight	564g	1.24lb
Flux density	0.9T	
Gap height	6mm	0.23in
Net weight	1.4kg	3.08lb

Parameters

Fs	56.5Hz	
Vas	4.54l	0.16Ft ³
Qts	0.545	
Qes	0.59	
Qms	7.18	
Re	5.2 ohms	
Sd	86.59cm ²	13.42in ²
Cas	3.23E-08 m ⁵ /N	
Mas	245.4 kg/m ⁴	
Ras	12133.46 ohms.ac	
Cms	4.31E-4m/N	
Mms	18.4g	0.04lb
Rms	910g/s	
Ces	319.61mF	
Les	24.83mH	
Res	63.28 ohms	
Bl	7.59N/A	
SPL	83.27dB/W/m	