



i5

WOOFER

USER MANUAL

ENGINEERED IN GERMANY

Congratulations!

Dear Customer,

Congratulations on your purchase of this high-quality product.

HELIX COMPOSE highlights best quality, excellent manufacturing and state-of-the-art sound quality.

Thanks to more than 35 years of experience in research and development of audio products HELIX COMPOSE sets new standards in the car audio speaker market.

We wish you many hours of enjoyment with your new HELIX COMPOSE components.

Yours

AUDIOTEC FISCHER Team

General instructions

General instructions for installing HELIX loudspeakers

To prevent damage to the speakers and possible injury, read this manual carefully and follow all installation instructions. This product has been checked for proper function prior to shipping and is guaranteed against manufacturing defects.

For a proper performance and to ensure full warranty coverage, we strongly recommend to get this product installed by an authorized HELIX dealer.

If you choose to perform your own installation read the following information and precautions carefully.

Failure to follow the stated precautions may result in personal injury and / or damage to the audio system or vehicle.

1. Always make sure that the speaker will fit into the intended mounting location and that there is adequate depth for the magnet system.
2. Check for adequate space between speaker and window, window crank, power window mechanism, seat, rear deck torsion bars, and other items which may interfere with the speaker's mounting. This is very important if any hole cutting is required. Detailed size information is indicated in the dimension section of this manual. Take care that the mounting surface is flat and free from all obstructions.
3. Ensure that the loudspeakers are correctly connected in polarity. Exchanging plus and minus may result in significant loss of sound quality. The positive leads of the loudspeakers are marked red.
4. Make sure that all speaker wiring is fully protected from cutting or wear at sharp edges, which can lead to short circuits that may damage your head unit, amplifier and / or speaker system.

5. Verify that all connection wires are long enough in order to avoid any mechanical stress on the wires or the connectors.
6. Make sure that all components are mounted properly.
7. Do not mount the components where water may splash on them.
8. The quality of the installation has a significant effect on the overall performance of the speaker system. Treat each installation step with a high degree of attention.
9. Avoid low frequency cancellation caused by air leakage between the speaker basket and the mounting surface (e.g. mounted on a bended or uneven surface or mounted in an oversized hole).
10. Mounting panel reinforcement may be necessary in some cases in order to ensure a stable, torsion-free and even surface. This can be achieved by mounting the speaker on a metal, plastic or wooden sub-baffle behind the body or door panel. Consult an installation specialist for further advices.
11. In most cases you can use the original speaker mounting locations in the doors, A-pillars, body panels or the rear deck. If these are not available you have to prepare your own secure installation place. Due to their structural integrity and accessibility the precut mounting holes should be used whenever possible. Information on a proper mounting can be found in the section "Installation" of this manual.

IMPORTANT: Never cut any metal that is an integral part of an automobile's safety or structural car body.

We strongly recommend that you operate the complete audio system at low volume before final installation. So you can check whether each speaker is working before securing the loudspeakers into their mounting locations.

Find your composition

Go to www.audiotec-fischer.com/compose to explore the whole HELIX COMPOSE platform

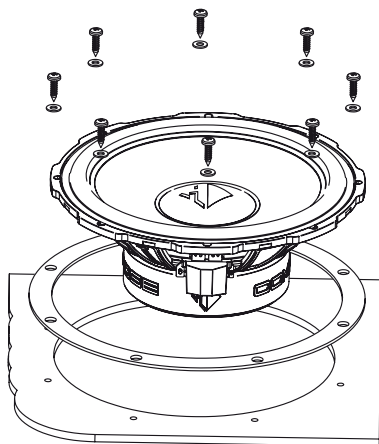


Installation

Mounting Ci5 W200FM

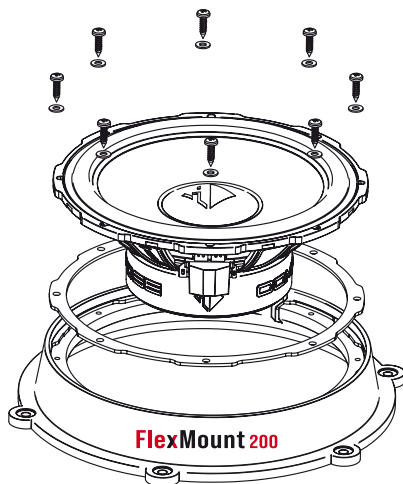
Option a:

Universal mounting



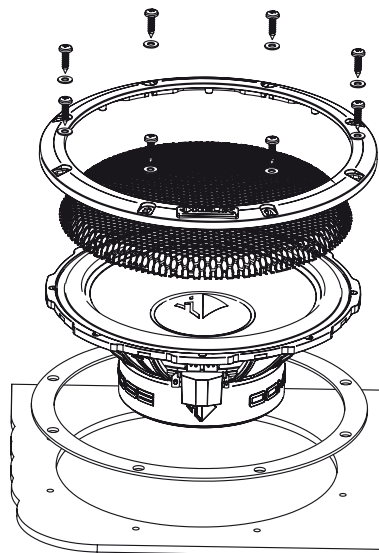
Option b:

Professional integration with optionally available **FlexMount 200** car-specific adaptor*



Option c:

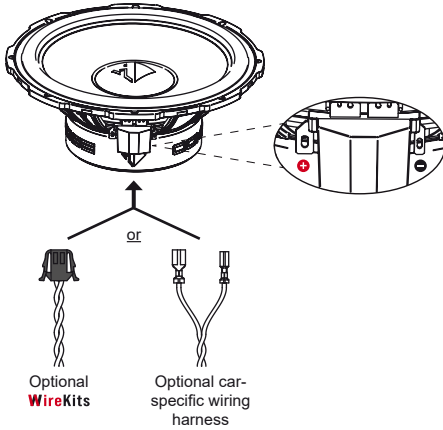
Universal mounting with optionally available speaker grille set CiA SG200



Wiring

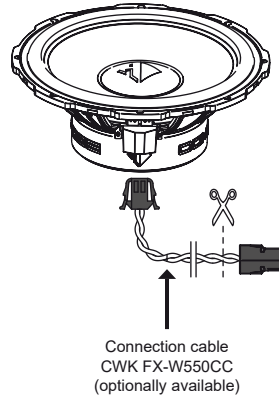
Option a: Universal connection to the blade terminals via optional car-specific harness or **COMPOSE WireKits**, e.g. in active applications

+ (positive): large flat terminal
- (negative): small flat terminal



Option b: Universal connection, e.g. in active applications

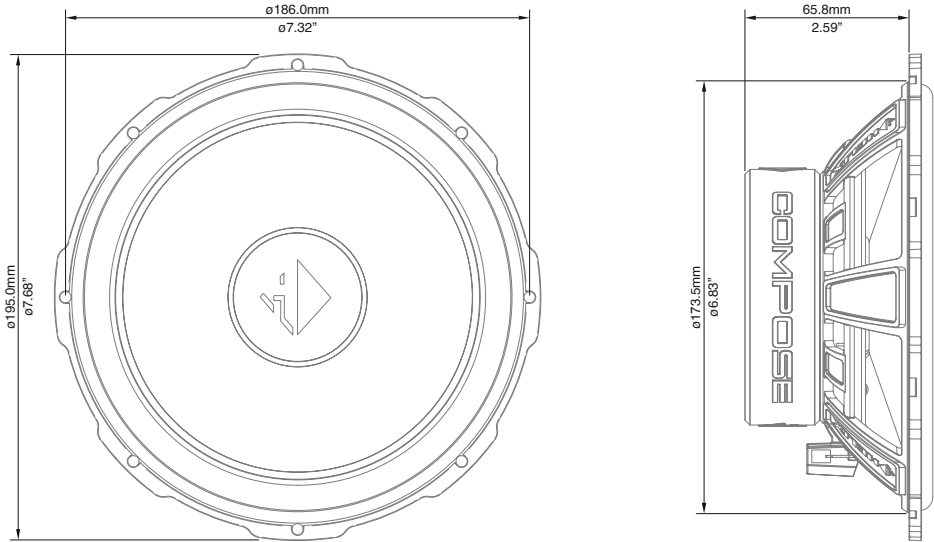
Cut off the plug of the cable and connect it to the amplifier.



Ensure that all components are correctly connected in polarity, i.e. plus to plus and minus to minus. The positive leads of the loudspeaker system are marked red.

Dimensions

Ci5 W200FM-S3



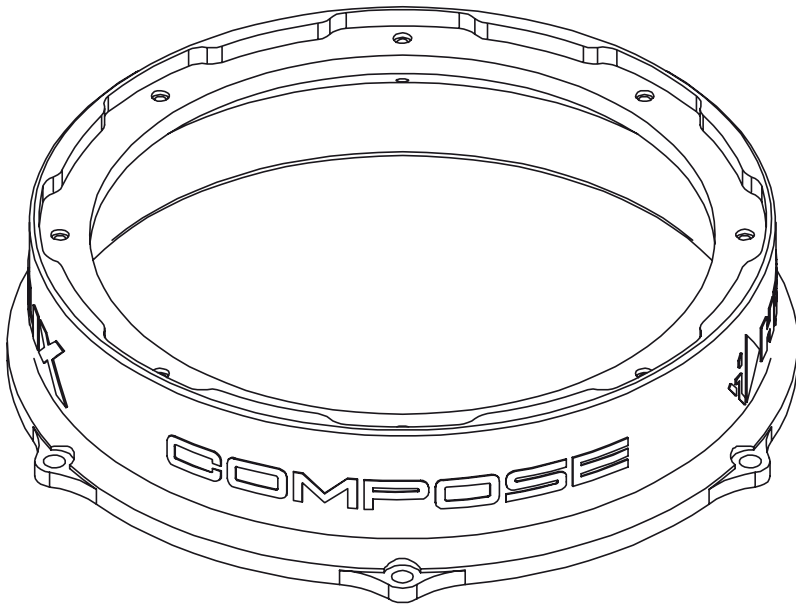
Technical data measured using KLIPPEL® Analyzer System

Ci5 W200FM-S3		
Power RMS / Max.	<i>P</i>	125 / 175 Watts
Impedance	<i>Z</i>	3 Ω
DC resistance	<i>Re</i>	3.2 Ω
Frequency response acc. to IEC 60268-23 18		30 Hz - 8,450 Hz
Resonance frequency	<i>Fs</i>	57.1 Hz
Mechanical Q factor	<i>Qms</i>	3.74
Electrical Q factor	<i>Qes</i>	0.84
Total Q factor	<i>Qts</i>	0.68
Compliance	<i>Cms</i>	344 μm/N
Equivalent air volume	<i>Vas</i>	21.7 L
Force factor	<i>B*I</i>	5.6 Tm
Sensitivity	<i>SPL</i>	93 dB @ 2.83V / 1m 89 dB @ 1W / 1m
Cone area	<i>Sd</i>	211 cm²
Moving mass	<i>Mms</i>	22.7 g
Cone material		Silicon coated paper cone
Mechanical resistance	<i>Rms</i>	2.16 kg/s
Voice coil diameter	Ø	35 mm
Voice coil winding height		15.6 mm
Max. linear excursion (82 % BL)	<i>Xlin</i>	+/- 5.5 mm
Max. mechanical excursion	<i>Xmax</i>	+/- 12.7 mm
Features		ProConnect terminal and FlexMount 200

FlexMount car-specific adaptors

The **FlexMount 200** car-specific adaptor rings (sold separately) allow a tailored and acoustically optimized adaption of the HELIX COMPOSE Ci5 W200FM-S3 to the vehicles original mounting location. Contact your retailer or visit www.audiotec-fischer.com/compose for an up-to-date overview of available adaptors.

FlexMount 200



Contact your retailer or visit
www.audiotec-fischer.com/compose for an up-to-date
overview of available **FlexMount** car-specific adaptors



Trademarks

KLIPPEL® is a registered trademark of Klippel GmbH. Other trademarks and trade names are those of their respective owners.

Disposal information

This symbol means that the product must not be disposed of with unsorted household waste. At the end of its service life, take it to a designated collection or return point for waste electrical and electronic equipment. Proper disposal of waste equipment helps to prevent environmental and health damage.

Service information

These notices do not affect the buyer's statutory rights in case of defects against the seller. Damage caused by improper installation, incorrect electrical connection, overload, voltage spikes in the vehicle electrical system, improper use, modifications not approved by the manufacturer or failure to observe this user manual is not covered by any services exceeding the statutory liability for defects. For service inquiries, please contact your dealer or our support and provide proof of purchase and a description of the fault. To help prevent transport damage, please use the original packaging if possible or other suitable transport-safe packaging. Technical changes, misprints and errors reserved. Mandatory statutory liability remains unaffected.

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FISCHER**

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