



AUDIOTEC FISCHER CI40000 Helix Compose 2-Way High-End Flex-Crossover User Manual

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AUDIOTEC FISCHER CI40000 Helix Compose 2-Way High-End Flex-Crossover



Product Information

The HELIX COMPOSE is a high-quality car audio speaker system engineered in Germany. With over 30 years of experience in audio product research and development, HELIX COMPOSE sets new standards in the car audio speaker market. It offers excellent manufacturing, state-of-the-art sound quality, and is guaranteed against manufacturing defects.

Product Usage Instructions

1. Before installation, carefully read the manual and follow all instructions to prevent damage to the crossovers/speakers and possible injury.
2. For optimal performance and warranty coverage, it is recommended to have the product installed by an authorized HELIX dealer. If you choose to perform your own installation, please read the following precautions carefully.
3. Ensure that the speaker will fit into the intended mounting location and that there is sufficient depth for the magnet system.
4. Check for adequate space between the speaker and window, window crank, power window mechanism, seat, rear deck torsion bars, or any other items that may interfere with the speaker's mounting. Pay attention to detailed size information provided in the manual. The mounting surface should be flat and free from obstructions.
5. Correctly connect the crossovers and loudspeakers in polarity. Exchanging plus and minus may result in a significant loss of sound quality. The positive leads of the loudspeakers are marked red.
6. Protect all speaker wiring from cutting or wear at sharp edges to avoid short circuits that may damage your head unit, amplifier, and/or speaker system.
7. Ensure that all connection wires are long enough to avoid mechanical stress on the wires or connectors.
8. Mount all components properly and avoid mounting them where they may be exposed to water splashes.
9. The quality of the installation greatly affects the overall performance of the speaker system. Pay close attention to each installation step.
10. Avoid low-frequency cancellation caused by air leakage between the speaker basket and the mounting surface. Ensure that the speaker is mounted on a flat, even surface and in an appropriate-sized hole.
11. In some cases, mounting panel reinforcement may be necessary to ensure a stable and torsion-free surface. Consult an installation specialist for further advice.
12. Whenever possible, use the original speaker mounting locations in the doors, A-pillars, body panels, or rear deck. If not available, prepare a secure installation place. Follow the instructions provided in the Installation section of the manual.

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 30 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 crossovers / 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 in-tended 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 dimen-sion section of this manual. Take care that the mount-ing surface is flat and free from all obstructions.
3. Ensure that the crossovers and 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 prop-erly.
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 leak-age between the speaker basket and the mounting surface (e.g. mounted on a bended or uneven sur-face 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 installa-tion specialist for further advices.
11. In most cases you can use the original speaker mounting locations in the doors, A-pillars, body pan-els 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.

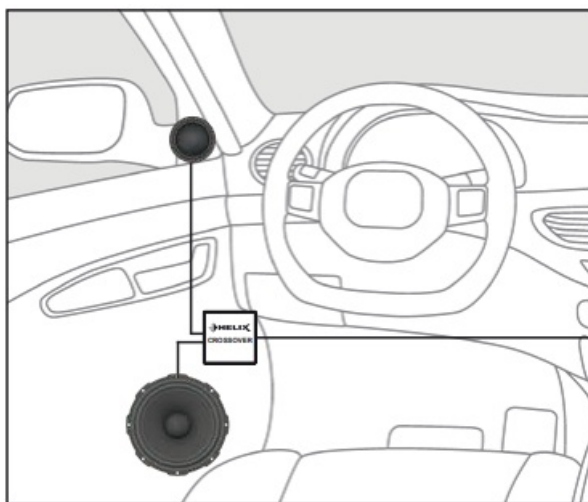
IMPORTANT: Never cut any metal that is an integral part of an automobile`s safety or structural car body. We strongly recommend that you operate the complete audio system at low volume before final installation. So you can check whether each speaker is working before securing the loudspeakers into their mounting locations.

Flex-Crossover configuration options:

The Flex-Crossover offers two configuration options:

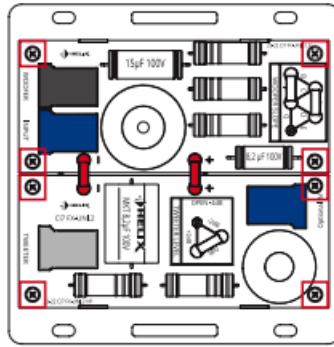
Option 1:

Connecting the crossovers in vehicles with mounting positions of tweeter and midrange / midbass / woofer close to each other, e.g. in the car door.



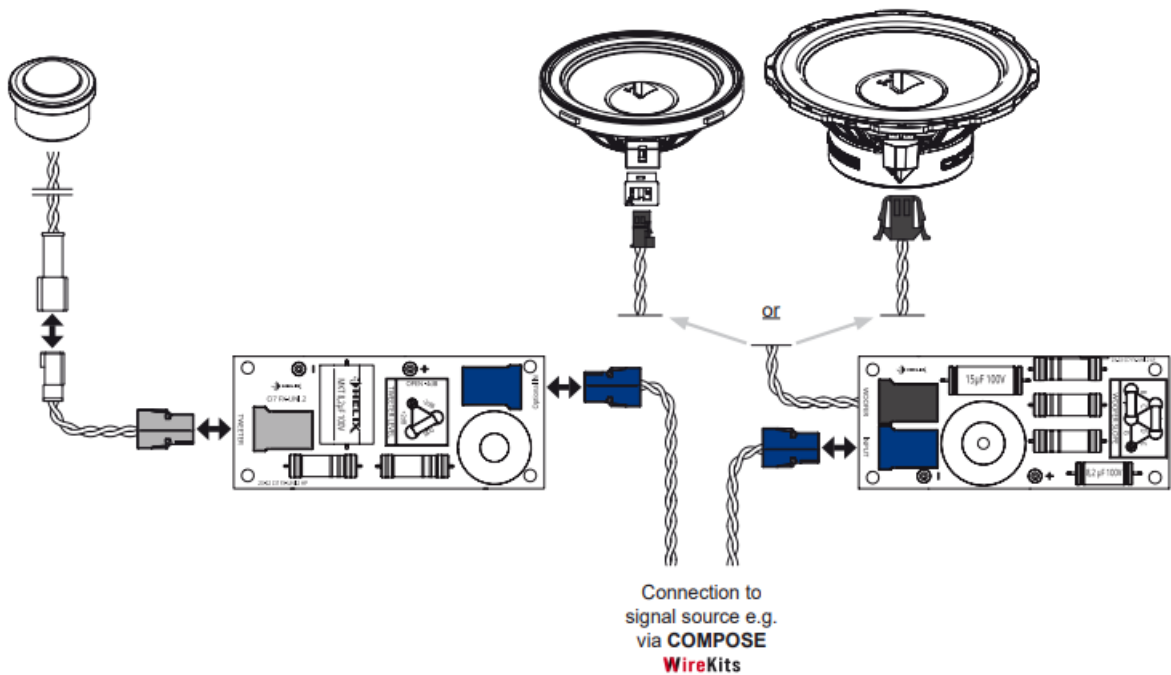
Option 2:

Connecting the crossovers in vehicles with separate mounting positions of tweeter and midrange / midbass / woofer, e.g. tweeter in the A-pillar and midrange / mid-bass / woofer in the car door.



3. Connection of the crossovers.

Note: Before connecting the loudspeakers, it is advisable to pull the enclosed heat shrink tubing over the loudspeaker cables in order to insulate the circuit boards after connection.



4. Isolate the two circuit boards by pulling the heat shrink tubings over circuit boards and shrinking them in. Never install the circuit boards uninsulated! Risk of short circuit!

Tweeter level & lowpass filter adjustment:



The crossover allows to optimize the level of the connected tweeter as well as the adjustment of the lowpass filter slope to the connected COMPOSE midrange, midbass or woofer internally by repositioning level jumpers. Therefore open the crossover housing, pull the appropriate jumper straight upwards and reinsert it to the desired position.

Tweeter level adjustment:

The correct tweeter level setting strongly depends on the location of the speakers. Then confirm the level by listening to the speakers and modify the jumper setting if needed.



+2 dB: The level of the tweeter is increased by 2 dB.



0 dB: The tweeter has the optimum level for most applications.



-2 dB: The level of the tweeter is reduced by 2 dB.



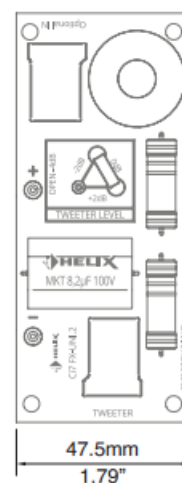
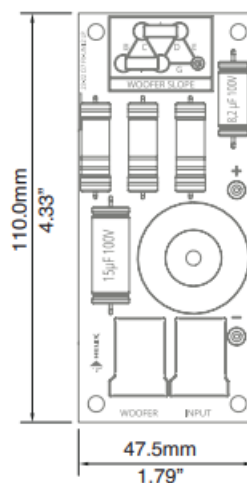
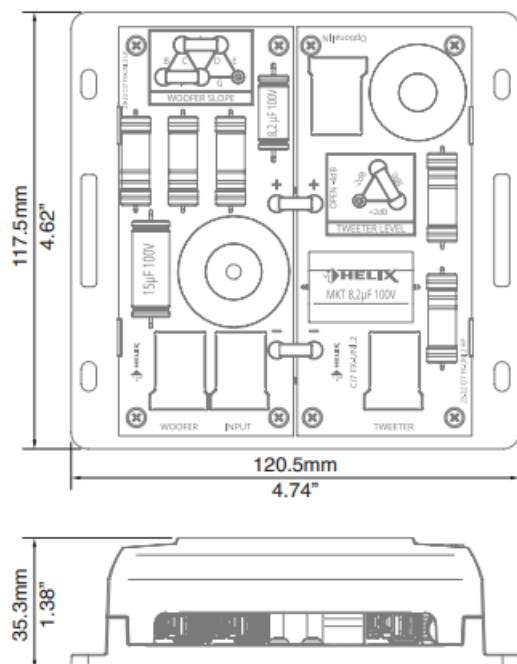
-4 dB: The level of the tweeter is reduced by 4 dB.

Lowpass filter adjustment:

We recommend to use the following lowpass filter slope setting for the connected midrange, midbass or woofer:

Connected speaker	Jumper positions
i7 M100FM	F & E
i7 W130	A & F
i7 W165FM	C
i7 W200FM	B & G

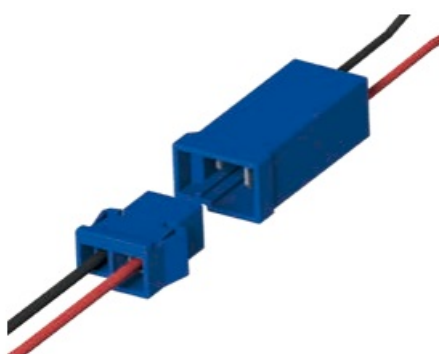
Dimensions



Technical data

	Ci7 FX-UNI.2
Slope	Tweeter: 12 dB highpass Woofer: 12 dB lowpass
Tweeter level adjustment range	-4 dB up to +2 dB
Features	<ul style="list-style-type: none"> – Designed for Ci7 T20FM-SC – 4-stage tweeter level adjustment – 4-stage woofer lowpass filter adjustment to all COMPOSE midrange, midbass and woofer speaker

The optionally available Write Kite allow a fail-safe and professional adaption of the HELIX COMPOSE Ci7 FX-UNI.2 to the vehicles original cable harness.



Contact your retailer or visit www.audiotec-fischer.com/compose for an up-to-date overview of available Write Kits



Correct disposal of this product

(Applicable in the European Union and other countries with separate collection systems)

If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling. Contact your local government office for details in locating a recycle facility close to you. Proper recycling and waste disposal will help conserve resources and prevent detrimental effects on our health and the environment.

Warranty Disclaimer

The warranty service is based on the statutory regulations. Defects and damage caused by overload or improper handling are excluded from the warranty service. Any return can only take place following prior consultation, in the original packaging together with a detailed description of the error and a valid proof of purchase. Technical modifications, misprints and errors excepted! For damages on the vehicle and the device, caused by handling errors of the device, we can't assume liability. All HELIX speakers are tagged with a CE-Certification mark. Thereby these devices are certified for the use in vehicles within the European Community (EC).

Documents / Resources



[AUDIOTEC FISCHER CI40000 Helix Compose 2-Way High-End Flex-Crossover](#) [pdf] User Manual
CI40000 Helix Compose 2-Way High-End Flex-Crossover, CI40000, Helix Compose 2-Way High-End Flex-Crossover, 2-Way High-End Flex-Crossover, High-End Flex-Crossover, Flex-Crossover, Crossover

References

- [A HELIX COMPOSE Speaker | Car-Hifi Components](#)