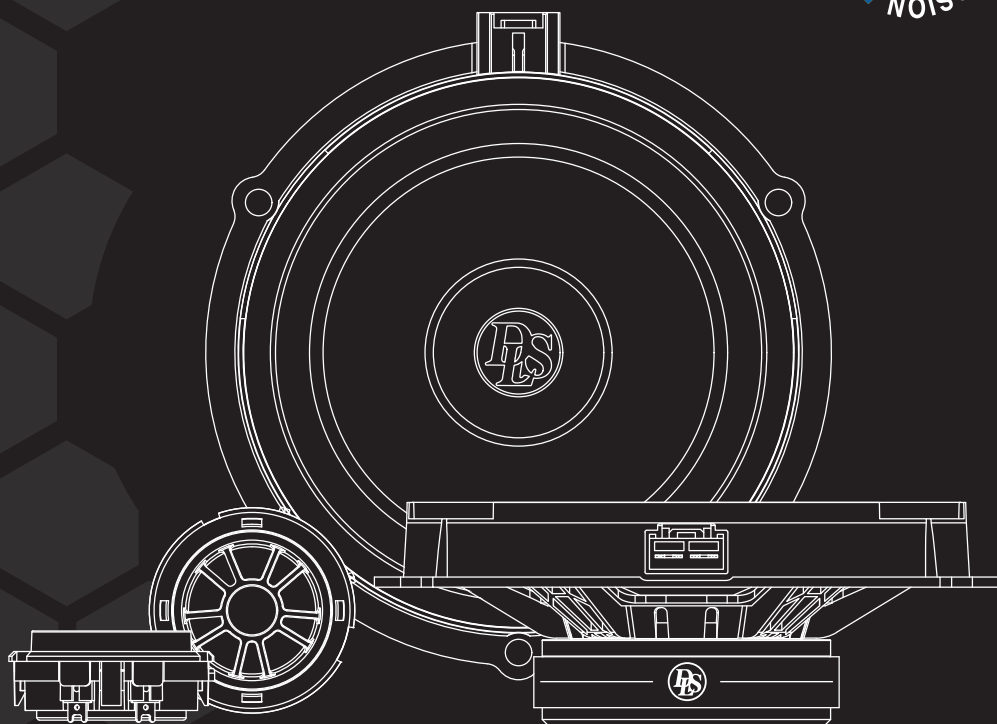




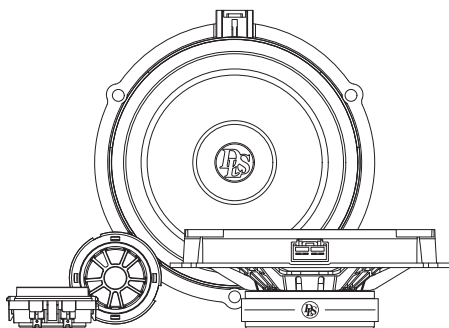
CRPP-FO1.6

User Manual

Ford



CRUISE



Welcome to DLS!

Thank you for purchasing the DLS Cruise CRPP-FO1.6 component kit. For us, it's all about the sound experience. We care deeply about sound and construction quality. In order for your experience to be as optimal as possible, it is important that you fully read this manual, preferably before you start your installation. Keep the manual in a safe and accessible place for future reference.

Your speakers must be installed correctly in order to work as intended. Make sure you have all necessary tools nearby before starting and that you are completely confident in how to proceed. If you feel the slightest uncertainty, feel free to take the help of an experienced installer or a car audio dealer.

Warranty

This component kit is covered by warranty, depending on the conditions in the country where it is sold. If the speaker is returned for service, please include the original dated receipt with the product.

DECLARATION OF CONFORMITY

DLS Cruise Plug & Play speakers for vehicles are manufactured in accordance with the EU directive EEC 95/54 (72/245/EEC) and are marked with the approval number. They are also marked in accordance with the WEEE-directive 2012/19/EC. The products are also produced in accordance with the EU RoHS directive 2015/863/EU.

DLS CRUISE CRPP-FO1.6

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www.dls.se

Designed & Sound tuned in Sweden.



Parts Included

Included products:

- 2pcs Woofers
- 2pcs Tweeters
- 2pcs Crossovers

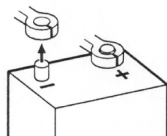
Included accessories:

- 2pcs Stainless steel Cruise logo badges
- 2pcs Woofer connection cables
- 2pcs Tweeter connection cables
- 4pcs Adhesive foams for wrapping
- 2pcs Four-leaf clover foams for tweeter
- 4pcs Foam pads 30mm
- 8pcs Terminal crimp connectors
- 1pc Pry tool
- 1pc Manual

Pre-installation

Disconnect Battery

Before you start the process of replacing your speakers, disconnect and secure the negative terminal from your battery/power source. This will prevent the risk of damaging yourself or the products.



Place the disconnected terminal in a secure and isolated location away from any possible connection belonging to the battery/power source system.

General Info

Some sound systems may vary in size of the door speaker. Before you start the assembly, make sure that your vehicle has the same size as this kit.

The installation process may vary depending on the car model, factory options and other factors. The approach is similar to all of the car models described. Some screws and clips may be placed differently and depending on if the tweeter is placed in the A-pillar or side mirror, the course of action may vary.

Take care when removing panels, so there will be no marks. Use plastic pry tools to avoid marks on the panels and damage the plastic clips.

Installation

Tools needed

- Bit screwdriver
- Bit socket Torx T20 & T25
- Bit socket M7 wrench size
- Small flat head screwdriver
- Plastic pry tool (included)
- 4mm drill bit and screwdriver (in some cases)

Remove Door Panel

Disassemble the front door by removing the door panel cover.



Usually the clips/screws are placed by the white marks. This could vary depending on the vehicle.



Typical screw locations are behind plastic covers at the door opener and in the armrest. There's also one or two screws at the bottom of the door panel.





In most cases the screws used are Torx T20 or T25. Unscrew them and store the screws in a safe place, for later use when reinstalling the door panel.



To remove the door panel, all clips need to be released. Loosen the door panel by inserting the pry tool between the panel and the door. Start at one of the bottom corners. Pry the door panel gently, but firm, outward to release the clips. There are 6-8 clips located around the outer edge.



When the door panel is loose, start by softly lifting the panel straight up to remove it.



There are several electrical and mechanical connectors on the backside of the panel. Start with detaching the release cable from the door handle. First lever out the black or white clip. The door release cable is now loose and can be removed from the front turning the cable and unhooking it.



Disconnect electrical connections for the window control panel





Remove Speaker

Depending on the vehicle model, the factory speakers can be mounted using Torx T20/T25 screws, M7 screws or rivets.

If the speaker is mounted with screws:

- Disconnect the speaker connector.
- Remove the screws using the appropriate tool (Torx T20, T25 or M7 socket).
- Use the pry tool to carefully remove the speaker from the door.



If the speaker is mounted with rivets:

- Disconnect the speaker connector.
- Use a 4mm drill bit to carefully drill out the rivets (Avoid dropping the speaker while drilling).
- Remove speaker from the door with the pry tool.

NOTE! Ensure that all rivet debris is removed from inside the door cavity to prevent rattling noise or damage.

Mount DLS Speaker

NOTE! Some original speakers use two guiding pins that align with holes in the metal panel. Cover these two holes with the included 30mm circular foam pads to ensure a proper seal and prevent air leakage inside the door when the new DLS speaker is installed.

Install the speaker to the door by using the Torx T20/T25 screws, M7 screws or rivets. Make sure the speaker is properly mounted and fits nicely.



Reconnect the speaker connector in the new DLS speaker.

Remount Door Panel

Start the reassembly of the door panels. Follow this manual in reverse order.

Reconnect all cables. Reconnect all electrical connectors and the unlocking device, place the door cover from the top by the window seal and push it down gently. Make sure the clips align with their holes and can engage. Give the door panel a push by the hand to attach to the clips. Mount and fasten all screws/bolts at the correct places. Make sure that no screws or clips are left over.

Hint!

Take care when installing the door panel, to make sure no wires get squeezed and/or pressed against the midrange speaker when it's installed in the door frame.



Remove Tweeter

Locate the tweeter – Either in the A-pillar or in the mirror sail panels in the upper front corner of the doors.



Start by removing the tweeter cover panel. Use plastic pry tools and be careful, there can be air-bags behind the A-pillar. The first clip can be hard to remove. Take it easy and use minimal force. The instructions below shows how to remove the Mirror sail panel tweeter.



Insert the pry tool between the panel and the door frame. Carefully pry the panel outward, the panel is secured with retaining clips. Once the clips are disengaged, gently pull the panel away from the door. Use minimal force to avoid damaging the panel. Disconnect any electrical connectors, such as ambient lighting (if equipped). Disconnect the speaker connector from the tweeter. The OEM tweeter is either clipped into place or secured with Torx screws (T20) in a mounting bracket within the sail panel.

- If secured with screws, remove the Torx T20 screws.
- If clipped in place, carefully release the retaining tabs using a trim tool or a small flat-head screwdriver.



When the OEM tweeter is snapped into a holder in the A-pillar cover. Use a PRY tool or small flat head screwdriver to remove the tweeter.



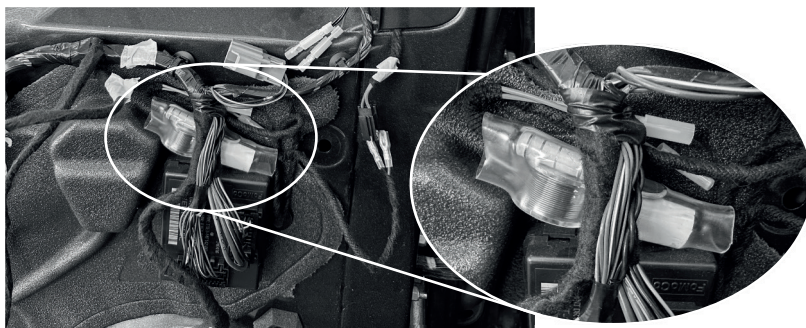
Mount DLS Tweeter

Install the new DLS tweeter in the same position and orientation as the OEM tweeter. Ensure that the new tweeter is properly seated in the mounting bracket. For additional stability, the supplied four-leaf clover adhesive foam pad can be used. Make sure the tweeter is firmly secured and that there is no risk of movement or vibration.



In some vehicle models, the four-leaf clover foam pad may need to be trimmed. Use sharp scissors to carefully adapt and modify the foam pad as required for proper fitment.

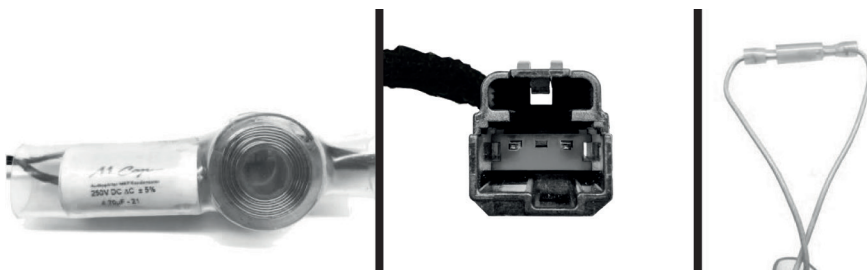
Make sure that the crossover gets in place behind the A-pillar, down under the dash or behind the door panel (if installed in the door). Add adhesive foam so that the crossover doesn't rattle against any plastic panel or metal. Make sure that no screws or clips are left over, reconnect the battery/power source terminal.





Crossover Settings

Connect the crossover using the factory connector. Use the remaining wrapping foam to secure the crossover and cables.

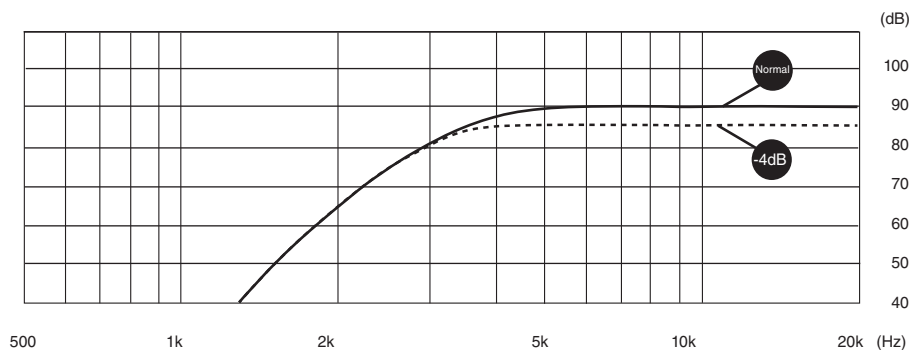


Tweeter Level

The yellow cable loop is a tweeter level selection, enabling fine tuning of the high-frequency sound.

- Closed loop = -4dB (Shown in the picture below)
- Open loop = Normal (Shown in the picture below)

By closing the loop as shown in the picture above, the tweeter gets less power in the higher frequencies, making the sound seem less intense. We recommend using the closed loop setup in installations where the factory tweeters are angled towards the listening position.





Run-in Period

To ensure optimal performance from your speakers, it's essential to allow for a proper run-in period. Fresh out of production, the moving parts like spider and suspension in a speaker can be stiff. A bit of exercise is necessary. Once they've had a chance to settle, you'll notice an improvement in sound quality.

Plan to let them play for a minimum of 15-20 hours. This can be achieved using a tone sweep or simply by playing music until they reach their intended performance. Once the run-in period is completed the speakers now provide a more natural and enhanced music experience.



DLS Support

For technical assistance, ask your car audio dealer where the product was sold or the distributor in your country. You can always contact the DLS Support in Sweden via e-mail: info@dls.se. For more information regarding DLS and our products, visit our website: www.dls.se. We follow a policy of continuous advancement in development. For this reason, all or part of specifications and designs may be changed without prior notice.



Specifications

DLS Cruise CRPP-FO1.6 Component Kit

Technical Specifications

Size	6.5" / 165 mm woofer and 1" / 25 mm tweeter
RMS Power	100 W
MAX Power	200 W
Impedance	4 Ohm
Sensitivity	91 dB 1W/1m
Freq. range	55 Hz - 25 kHz
Crossover	4800 Hz 12 dB / Oct with Mundorf caps

DLS Cruise CRPP-FO1.6 Woofer

Technical Specifications

Size	6.5" / 165 mm
RMS Power	100 W
MAX Power	200 W
Impedance	4 Ohm
Freq. range	55 Hz - 5 kHz
Voice Coil Size	1" / 25 mm
Voice Coil Material	CCAW voice coil with Kapton® former
Basket	Glass Fiber Reinforced ABS
Magnet	Optimized hybrid neo/ferrite magnet
Cone	Glass Fiber
Suspension	Rubber

Electro-Acoustic Parameters

Re	3.6 Ohm
Fs	69.8 Hz
Mms	14.9 g
Cms	0.30
Vas	8.15 L
Qts	0.54
Qes	0.65
Qms	2.95
Bl	6.24 Tm
Spl	89.2 dB 1W/1m
Sd	139 cm²

DLS Cruise CRPP-FO1.6 Tweeter

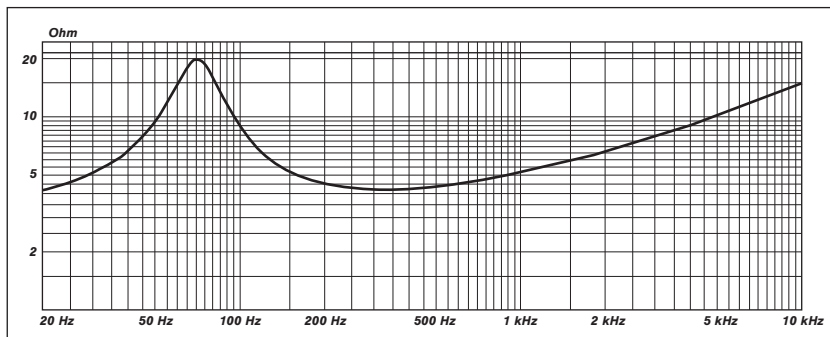
Technical Specifications

Size	1" / 25 mm
RMS Power	50 W
MAX Power	100 W
Impedance	4 Ohm
Freq. range	2 kHz - 25 kHz
Voice Coil Material	CCAW voice coil with aluminum former
Frame	Glass Fiber Reinforced ABS
Magnet	Neodymium with copper shorting ring
Cone	Natural silk dome
Attenuation	-4 dB / 0 dB

Electro-Acoustic Parameters

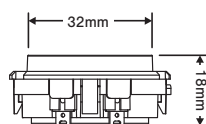
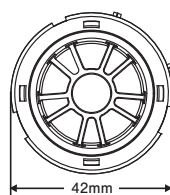
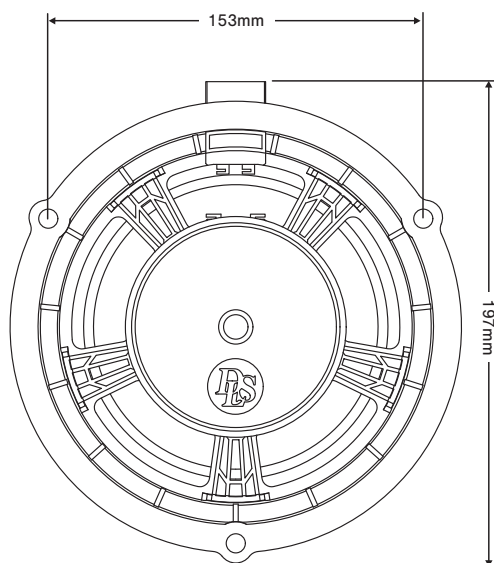
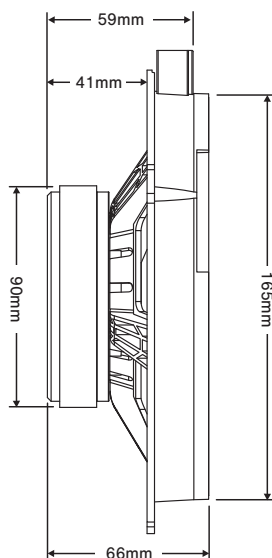
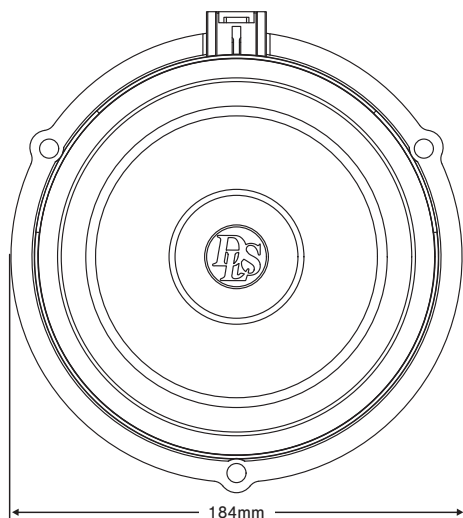
Re	3.5 Ohm
Fs	1992 Hz
SPL	94 dB 1W/1m

Impedance vs. Frequency





Dimensions





Compatible Car Models

DLS Cruise CRPP-FO1.6 & CRPP-FO1.6CX

Make	Model	Year	Front speaker	Rear speaker
Ford	B-Max	2012-2017	CRPP-FO1.6	CRPP-FO1.6CX
Ford	C-Max (Gen2)	2010-2015	CRPP-FO1.6	CRPP-FO1.6CX
Ford	C-Max (Gen2 facelift)	2015-2019	CRPP-FO1.6	CRPP-FO1.6CX
Ford	S-Max	2006-2015	CRPP-FO1.6	CRPP-FO1.6CX
Ford	S-Max	2015-2023	CRPP-FO1.6	CRPP-FO1.6CX
Ford	EcoSport	2014-2023	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Edge	2016-2019	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Fiesta (Mk7)	2008-2017	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Fiesta (Mk8)	2017-2023	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Focus (Mk3)	2011-2014	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Focus (Mk3 facelift)	2015-2018	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Focus (Mk4)	2018-2022	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Focus (Mk4 facelift)	2022-2025	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Galaxy (Mk3)	2006-2015	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Galaxy (Mk4)	2016-2023	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Kuga (Mk2)	2013-2019	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Kuga (Mk3)	2020-2024	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Mondeo (Mk5)	2014-2022	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Mustang Mach-E (Mk1)	2021-2026	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Ranger (Gen3)	2012-2015	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Ranger (Gen3 facelift)	2016-2018	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Ranger (2.0 EcoBlue)	2019-2022	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Transit Connect (Mk2)	2013-2024	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Tourneo Connect (Mk2)	2013-2024	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Transit Custom (Gen1)	2012-2024	CRPP-FO1.6	CRPP-FO1.6CX
Ford	Tourneo Custom (Gen1)	2012-2024	CRPP-FO1.6	CRPP-FO1.6CX

Disclaimer

Note! The factory sound system (for example speaker impedance) may in rare occasions be changed without prior notice from the vehicle manufacturer. If the factory speaker is below 2 Ohm or above 6 Ohm impedance, you should be cautious before installing your new speakers. The new speakers may not function properly, and can cause harm to the factory amplifier. For more information, visit www.dls.se or consult your local DLS dealer.



Product Markings



The crossed-out wheellie bin symbol means that the product, literature and packaging included must be taken to separate collection at the end of their working life. Do not dispose of these products as unsorted municipal waste: take them for recycling. For info on your nearest recycling point, check with your local waste authority.



This product has been granted with the CE certification mark to show that the product follows the health, safety, and environmental protection standards for products sold within the European Economic Area (EEA).



DLS products comply with the relevant provisions of the RoHS Directive for the European Union. In common with all Electrical and Electronic Equipment (EEE) the product should not be disposed of as household waste. Alternative arrangements may apply in other jurisdictions.



DLS is a global partner of the European Mobile Media Association, an organisation that focus on promoting the custom made mobile media installations to consumers.

We follow a policy of continuous advancement in development. For this reason all or part of specifications & designs may be changed without prior notice. We reserve for possible typos, factual or numeric errors that may have been printed on any products, package designs, user manuals and/or other included accessories.



CRUISE **E**