

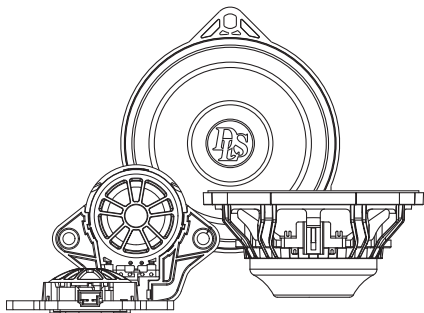
CRPP-TS1.4

User Manual

Tesla



CRUISE



Welcome to DLS!

Thank you for purchasing the DLS Cruise CRPP-TS1.4 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 plug and 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-TS1.4

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DLS speakers are engineered by DLS Sweden,
a part of:

Winn Scandinavia AB

Idrottssvågen 37 - SE-702 32 Örebro - Sweden

Tel: +46 19 20 67 65 - E-mail: info@dls.se

www.dls.se

Designed & Sound tuned in Sweden.



Parts Included

Included products:

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

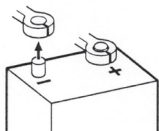
Included accessories:

- 2pcs Stainless steel Cruise logo badges
- 2pcs Woofer connection cables
- 2pcs Tweeter connection cables
- 2pcs Tweeter adaptors
- 4pcs Adhesive foams for wrapping
- 8pcs Terminal crimp connectors
- 1pc Pry tool
- 1pc Manual

Pre-installation

Disconnect Low-Voltage Power (Tesla)

Before working on the dashboard or A-pillars, power the vehicle off via the Service/Power Off menu. Wait until systems shut down (a few minutes). If required by local safety practice, disconnect the negative terminal of low-voltage (12 V/16 V) battery.



Warning: Never touch or route cables near high-voltage (orange) harnesses. Do not open or modify any airbag/SRS connectors. Place the disconnected terminal in a secure and isolated location away from any possible connection belonging to the battery/power source system.

General Info

Before you start, make sure your vehicle uses the same speaker size/position as provided in 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 described car models. Some screws and clips may be placed differently and 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 damaging the plastic clips.

Installation

Tools needed

- Shallow ratcheting Bit-holder / screwdriver
- Torx bit T20
- Small flat head screwdriver
- Plastic pry tool (included)

Remove Dashboard Speaker Cover Panel

The midrange speakers are located under the speaker cover panel in the dashboard.



To remove the speaker cover panel start by removing the A-pillar covers on both left and right sides. Use the included pry tool. The weather gasket can be moved back for easier access.





Use the pry tool around the edge of the dashboard cover panel to release the clips.



To remove the speaker cover panel, all clips need to be released. Pull upwards to detach and expose the midrange speakers.



Remove Speaker

Remove the three screws that are used for securing the factory speakers. They are of Torx type, use a tool bit T20 size. A shallow ratcheting Torx bit holder is required.

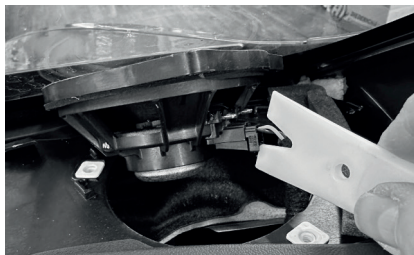


Unscrew them and store the screws in a safe place, for later use when reinstalling the door panel.

Use the pry tool to lift the speaker from its location.



Release the speaker connector.



Remove the OEM speaker.



Mount DLS Speaker

Reconnect the speaker connector to the new DLS speaker.

Install the speaker to the dashboard by using the OEM Torx T20 screws. Make sure the speaker is properly mounted and fits nicely.



Remount Dashboard Speaker Cover Panel

Start the reassembly of the speaker cover panel. Follow this manual in reverse order.

Place the speaker cover panel from the front at the window and lower it gently. Align all clips with their holes and press the panel firmly by hand to engage the clips.

Reassembly the A-pillar covers on both sides.

Ensure no wires are pinched and no clips/screws remain unused.

Remove Tweeter

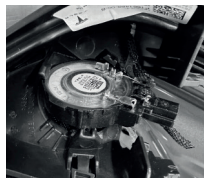
The tweeters are located in the rearview mirror cover panels in the front doors.



Start by removing the tweeter covers. Use the pry tool and be careful. The clips can be hard to remove. Take it easy and use minimal force.



The OEM tweeter is snapped into a holder in the tweeter cover panel. Use the pry tool or small flat head screwdriver to remove it.





Mount DLS Tweeter

Install the new DLS tweeter in the same way as the OEM tweeter. Make sure that the DLS tweeter is properly seated. Ensure that the DLS tweeter is installed firmly in place with no risk of movement.

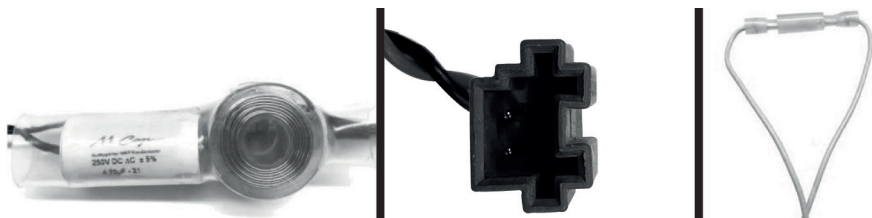
Make sure that the crossover gets in place behind the tweeter cover panel or behind the door panel. Add adhesive foam so that the crossover doesn't rattle against any plastic panel or metal.



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.

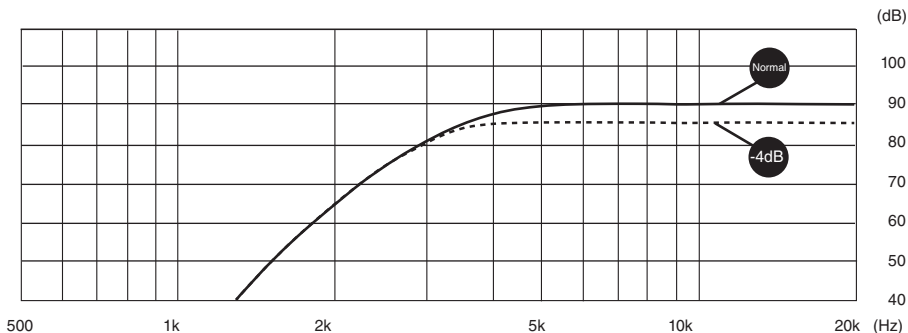


Tweeter Level

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 woofers, 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 woofers 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-TS1.4 Component Kit

Technical Specifications

Size	4" / 100 mm woofer and 1" / 25 mm tweeter
RMS Power	60 W
MAX Power	120 W
Impedance	4 Ohm
Sensitivity	88 dB 1W/1m
Freq. range	80 Hz - 25 kHz
Crossover	4800 Hz 12 dB / Oct with Mundorf caps

DLS Cruise CRPP-TS1.4 Midrange

Technical Specifications

Size	4" / 100 mm
RMS Power	60 W
MAX Power	120 W
Impedance	4 Ohm
Freq. range	80 Hz - 8000 Hz
Voice Coil Size	1" / 25 mm
Voice Coil Material	CCAW voice coil with Kapton® former
Basket	Glass Fiber Reinforced ABS
Magnet	Neodymium
Cone	Glass Fiber
Suspension	Rubber

Electro-Acoustic Parameters

Re	2.86 Ohm
Fs	80 Hz
Mms	6.73 g
Cms	0.41
Vas	2.4 L
Qts	0.47
Qes	0.55
Qms	3.43
Bl	4.10 Tm
Spl	88 dB 1W/1m
Sd	54 cm²

DLS Cruise CRPP-TS1.4 Tweeter

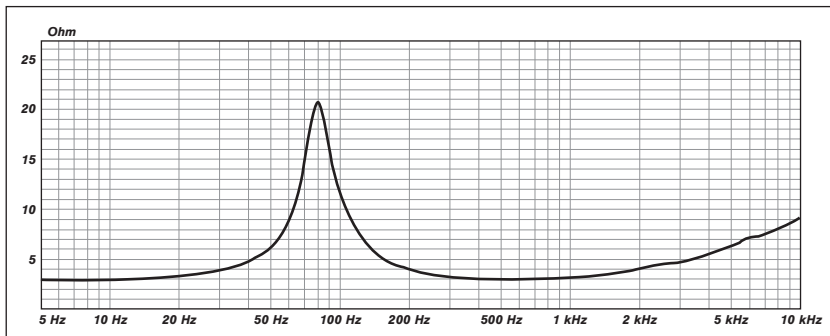
Technical Specifications

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

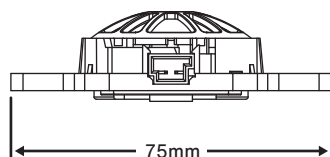
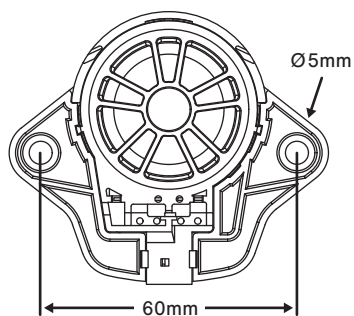
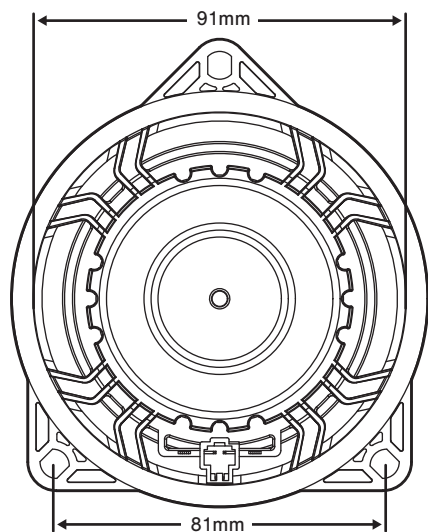
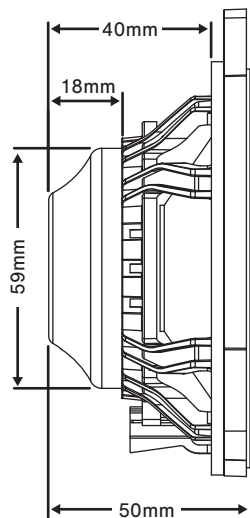
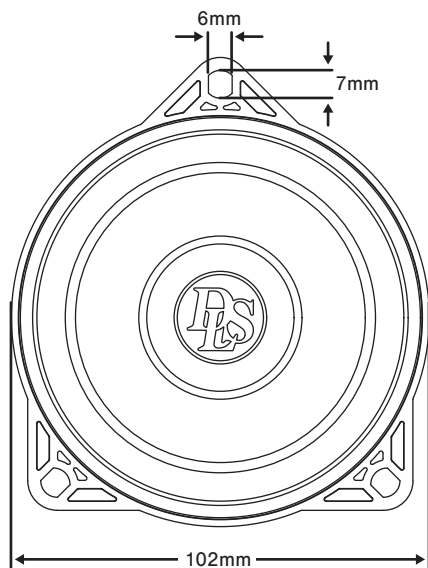
Re	3.5 Ohm
Fs	1992 Hz
SPL	94 dB 1W/1m

Impedance vs. Frequency





Dimensions





Compatible Car Models

DLS Cruise CRPP-TS1.4

Make	Model	Year	Front speaker
Tesla	3	2018-2025	CRPP-TS1.4
Tesla	Y	2021-2025	CRPP-TS1.4

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 wheeled 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 reasons 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.



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