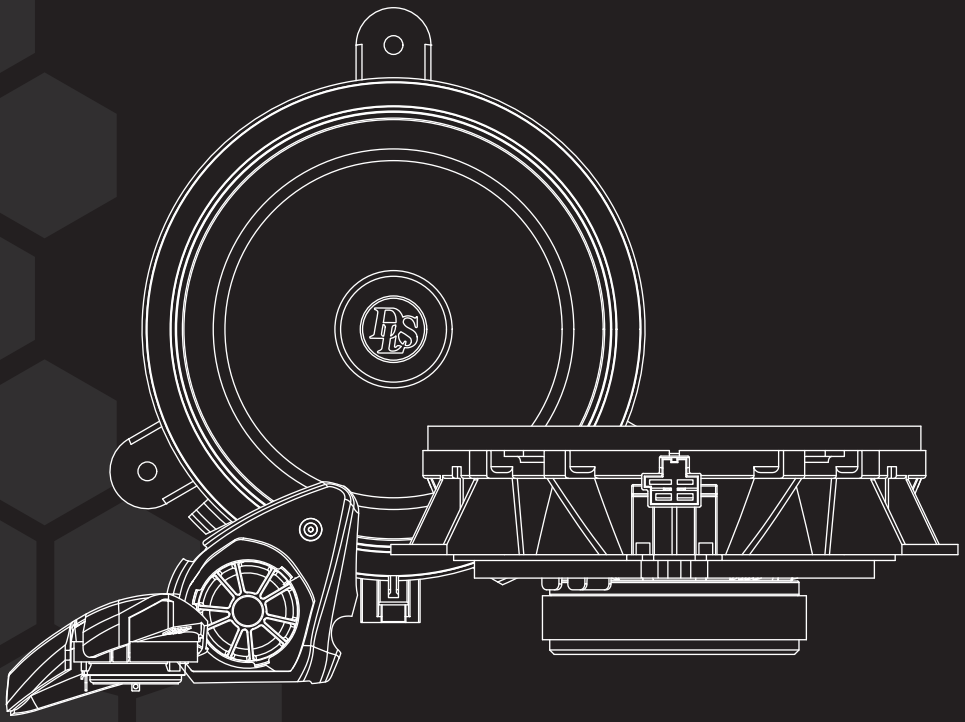
SWEDISH • AUDIO • PASSION

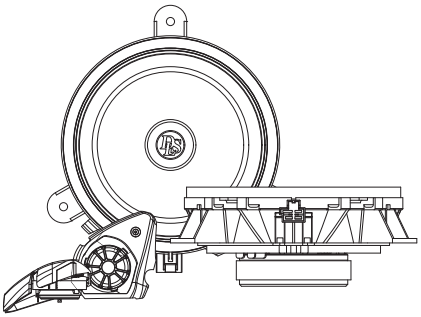


CRPP-VO1.6

User manual

VOLVO

CRUISE



DLS CRUISE

CRPP-VO1.6

Welcome to DLS!

Thank you for buying a DLS Cruise CRPP-VO1.6. 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.

General

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

This is a generic mounting instruction. The approach is similar to all of the described car models. Some screws and clips may be placed differently and depending on your car model.

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.

Content

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

Winn Scandinavia AB

Elementvägen 15 - SE-702 27 Örebro - Sweden

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

www.dls.se

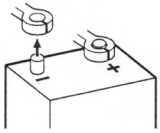
Designed & Sound tuned in Sweden.

Included products:
2pcs Woofers
2pcs Tweeters
2pcs crossovers

Included in box:
2pcs 3M adhesive foams for tweeter
4pcs Adhesive foams for wrapping
4pcs Terminal crimp connectors
2pcs Sound optimized tweeter brackets
8pcs Blind rivets
1pc Rivet tool
1pc Pry tool
1pc Manual

Pre installation

Disconnect Battery



Before you start the process of replacing 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

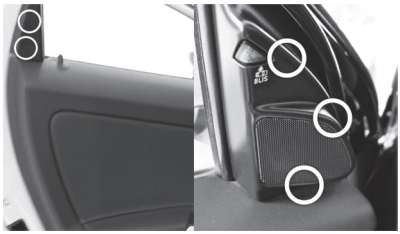
Some sound systems may vary in size of the door speaker. Make sure that your vehicle has the same size as this component kit, before you start the assembly

This is a generic mounting instruction. The approach is similar to all of the described car models. Some screws and clips may be placed differently and depending on your car model.

Installation

Start the dismount

Dismount the front door by removing the cover of the door panel.
Hint: Use plastic PRY tools to avoid marks on the panels or damaging the plastic clips.



If your door has a corner cover, you need to remove them first and also remove the cover for the tweeter.
Corner cover is attached with 2 clips and the tweeter cover is normally attached with 2 or 3 clips.

Remove the electric window panel and disconnect the plug on the back side of the panel. Always use plastic PRY tools when removing panels and interior, to avoid marks on the panels and leather.

Remove the door lock knob before removing the door panel.

Depending on the car model, the amount of screws and placement can vary. In most cases the screws used are Torx T25.

Be careful when removing the door panels and lids. Use PRY tools.

Some newer models don't have plastic clips to hold the door in place. Just remove the screws and gently press the door panel up. Be careful with the door lock knob. Just move the panel straight up.

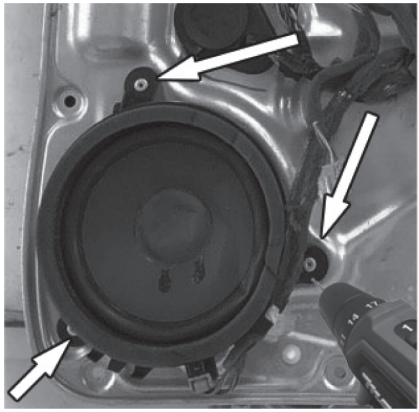
There are several electric and mechanical connectors on the backside of the panel. Release the door lock cable.

Disconnect all cables for lightning, speaker cable harness and any other connections.

Remove woofer

The door speakers are either fixed with rivets or screws. Make sure you have correct tools for each operation.

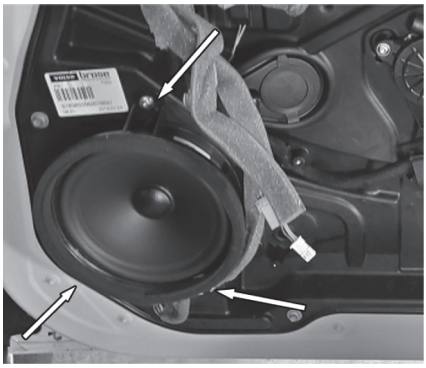
RIVETS



Use a 4mm drill to remove the rivets. Make sure all remains from the old rivets are removed from the inside of the door.

Just drill enough to remove the top of the rivets. Remember to disconnect the speaker harness before unmounting the speaker.

SCREWS
Speakers fixed with screws. Make sure to use correct tools to unscrew. Save the screws for reattachment of the new DLS speaker.

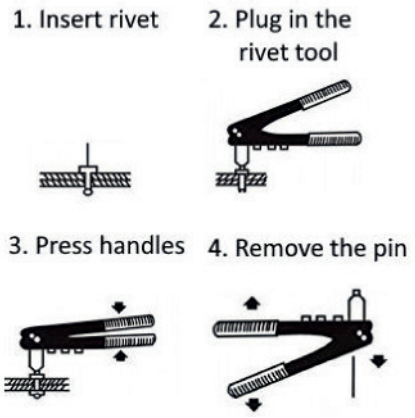


Mounting speakers

RIVETS (Mounting new speakers)

If the speakers were fixed with rivets. DLS recommends using a rivet tool to fix the new DLS speakers.

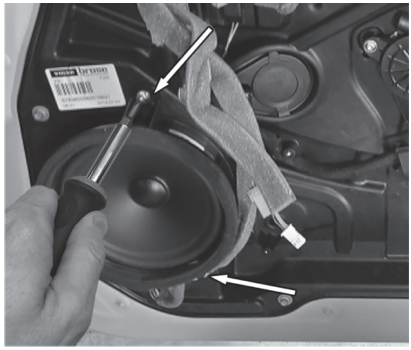
Place the new DLS driver in the hole for the speaker. Use the included rivet tool and rivets to safely mount the driver. (Step 3 might be done several times)



SCREWS (Mounting new speakers)

If the speakers were fixed with screws. DLS recommends using the OEM screws to secure the new DLS speakers. Use the correct screw bit.

Place the new DLS driver in the hole for the speaker and use the screws to fix the speaker.

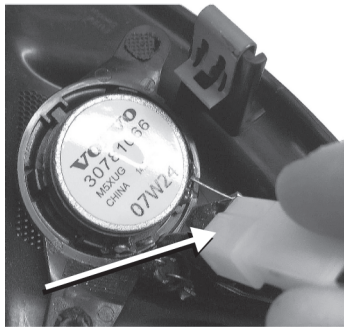


Connect the speaker harness. Start the assembly of the door panel. Reconnect all wires harness.

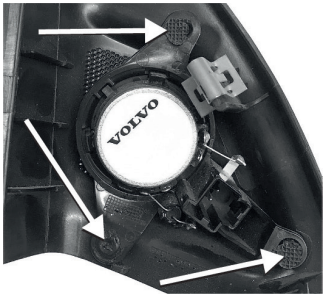
Hint: Don't forget to connect the tweeter cable (with crossover) to the OEM harness, before reassembling the door panel. The crossover needs to be placed behind the door panel. Use foam pads to wrap cables/crossover to prevent rattling.

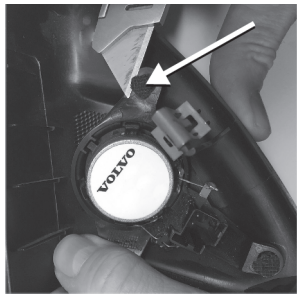
Change tweeter

Remove the tweeter cover. Usually it is fixed with 2 or 3 clips. Use a PRY tool to remove it and be careful. Take it easy and use minimal force. When loose, disconnect the speaker harness from the tweeter.



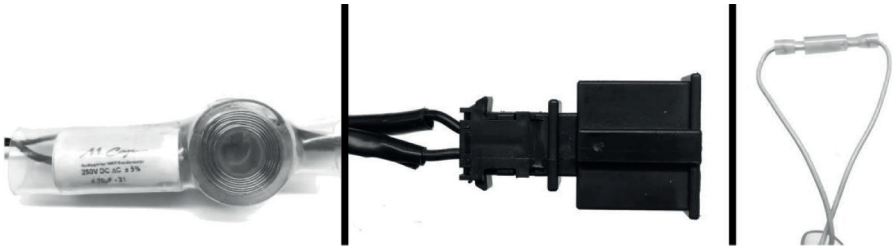
Use a Snap-off blade knife or a cutting nipper to remove the top of the plastic pin that holds the OEM-tweeter. When the tweeter is dismounted, make sure to remove all material from the pin that was used to fix the OEM-tweeter.





Attach the 3M double-sided adhesive tape to the sound optimized tweeter bracket. Mount the new DLS tweeter in the bracket. Remove the protection plastic from the 3M tape and place the bracket in the OEM tweeter cover. Press the bracket down, to attach to the OEM tweeter cover.

Connect the crossover with the PnP connector. Use the other adhesive foam to secure the crossover and cables.



The yellow cable loop is tweeter level select, enabling fine tuning of the high frequencies
Closed loop = -4dB (Shown in the picture)
Open loop = Normal

Finally

Connect all plugs to the door cover, reconnect the unlocking device, place the door cover from the top, by the window seal and push it gently down. Make sure the clips are in place and can engage. Give the door panel a push by the hand to attach to the clips. Mount and fasten all screws to the correct places. Make sure that no screws or clips are left over. Reconnect the battery/power source terminal.

Now it's time to play some good music and enjoy!

Running-in time

Allow the component kit to play for at least 15-20 hours in order to perform at its possibly best. This run-in can be made with tone sweep or with just music.

Start at a moderate volume and increase the volume step by step during the running in period. After the 15-20 hour run in session the performance and characteristics will be in the correct condition.

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 Helpdesk in Sweden at e-mail: *info@dls.se*. Information can also be found on our WEB- site www.dls.se. We follow a policy of continuous advancement in development. For this reason, all or part of the specifications and designs may be changed without prior notice.

Specifications

Art. no	**CK-CRPP-VO1.6**
Woofer	6.5” / 165 mm with glass fiber cone
Tweeter	1” / 25 mm silk dome tweeter with accessories
RMS Power	100 W
MAX Power	200 W
Impedance	3 Ohm
Sensitivity	90dB 1W / 1M
Freq. range	55 Hz - 25 kHz
Crossover	4.8 kHz 12dB / Oct with Mundorf caps

DLS Cruise CRPP-VO1.6 Tweeter

Technical Specification:

Size	1” / 25.4 mm
Voice Coil Material	CCAW voice coil / Aluminium former
Frame	Glass Fiber Reinforced ABS
Magnet	Neodymium / Copper shorting ring
Cone	Natural silk dome
Impedance	4 Ohm
Freq. range	2 kHz - 25 kHz

Electro-Acoustic Parameters:
Re 3.5 Ohm
Fs 1992 Hz
SPL 94 dB 1W/1M

DLS Cruise CRPP-VO1.6 Woofer

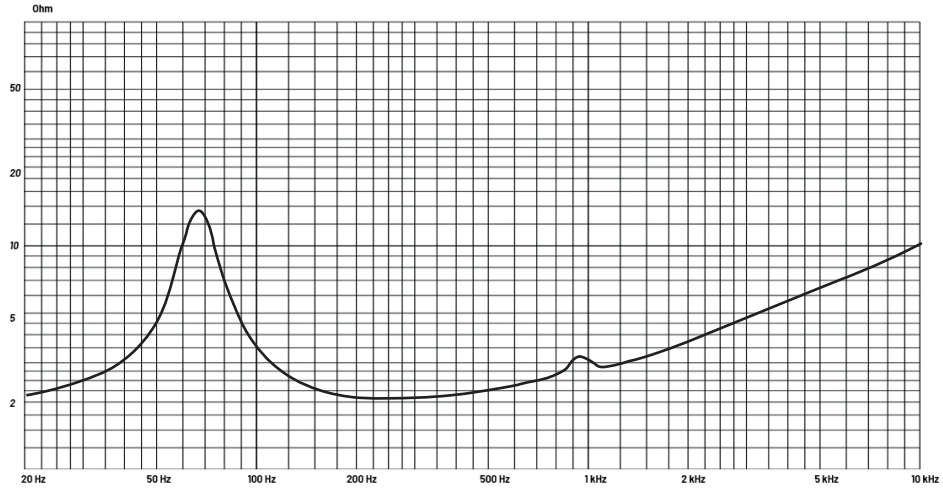
Technical Specification

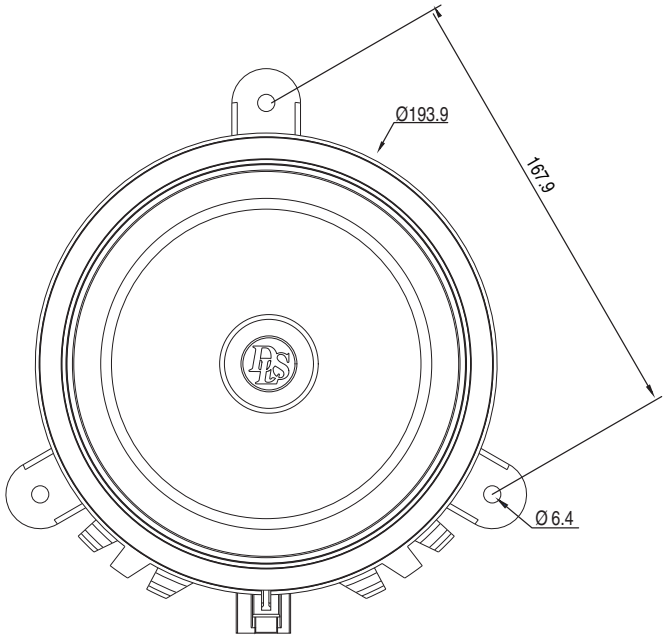
Size	6.5” / 165 mm
RMS Power	100 W
MAX Power	200 W
Voice Coil Size	1” / 25mm
Voice Coil Material	CCAW voice coil / Kapton former
Basket	Glass Fiber Reinforced ABS
Magnet	Ferrite
Cone	Glass Fiber
Suspension	Rubber
Impedance	2 Ohm
Freq. range	55 Hz - 5 kHz

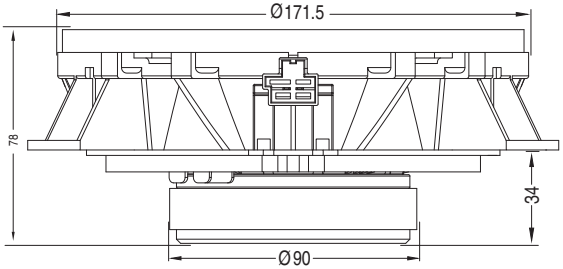
Electro-Acoustic Parameters

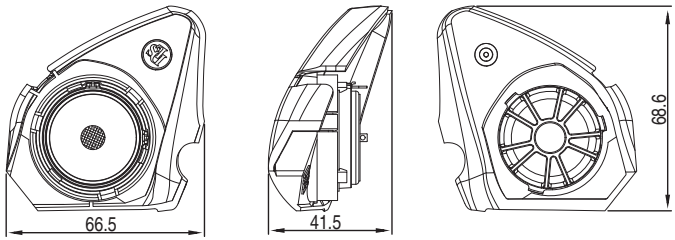
Re	1.9 Ohm
Fs	68.2 Hz
Mms	16.7 gr
Cms	0.324
Vas	8.7L
Qts	0.84
Qes	0.96
Qms	6.6
Bl	3.76 T.m
Spl	86.6 dB 1W/1M
Sd	139 cm²

Impedance VS Frequency









(mm)

DLS Cruise CRPP-VO1.6

The DLS component kit speaker is developed to be installed in the front door of your car.

DLS Cruise CRPP-VO1.6 compatible car models

Car	Model	Year	Front speaker	Rear speaker
Volvo	C30	2007-2013	CRPP-VO1.6*	
Volvo	S40	2008-2012	CRPP-VO1.6*	
Volvo	S80	2007-2017	CRPP-VO1.6*	
Volvo	S60	2011-2017	CRPP-VO1.6*	
Volvo	V70	2008-2016	CRPP-VO1.6*	
Volvo	V40	2012-2016	CRPP-VO1.6*	
Volvo	V50	2004-2012	CRPP-VO1.6*	
Volvo	V60	2011-2017	CRPP-VO1.6*	
Volvo	V60 XC	2016-2017	CRPP-VO1.6*	
Volvo	XC70	2008-2016	CRPP-VO1.6*	
Volvo	XC60	2009-2017	CRPP-VO1.6*	

*Disclaimer
The coaxial speaker can be placed in the rear doors. (CRPP-VO1.6CX)

Product markings

The crossed-out wheelie 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 complies 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