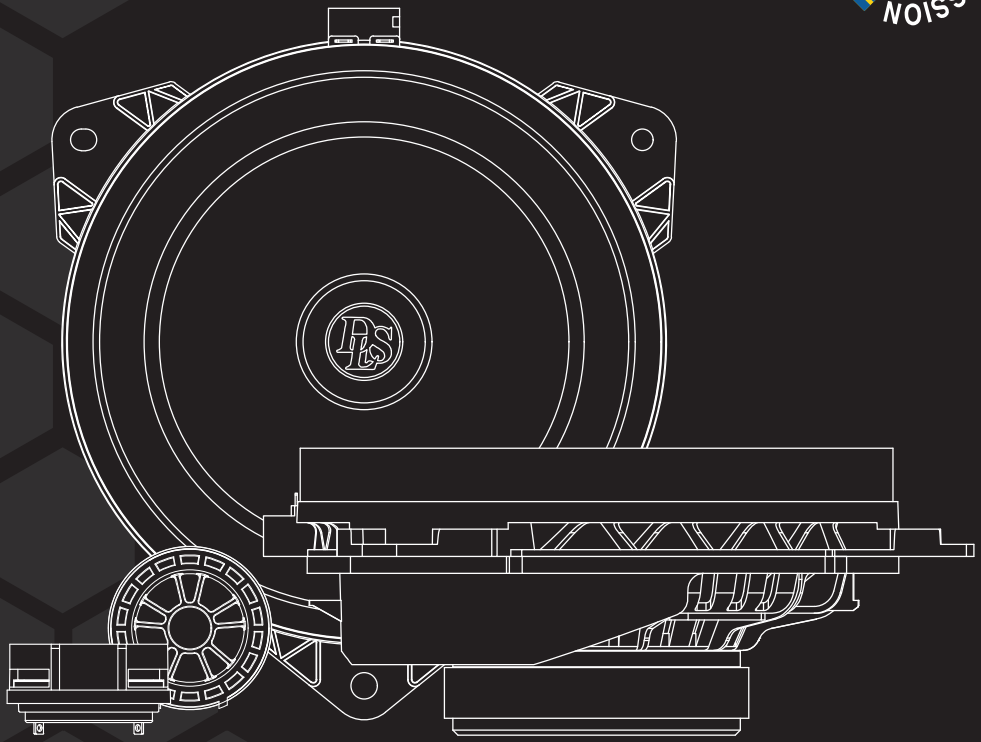
SWEDISH • AUDIO • PASSION

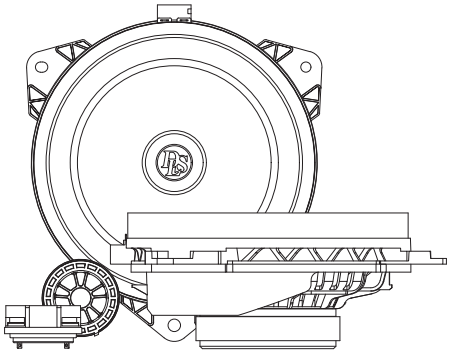


CRPP-TO1.7

User Manual

Toyota / Lexus

CRUISE



DLS CRUISE
CRPP-TO1.7

Welcome to DLS!

Thank you for purchasing the DLS Cruise CRPP-TO1.7 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.

Content

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

Winn Scandinavia AB

Idrottsvägen 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.

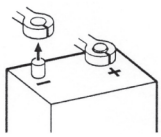
Parts Included

Included products:
2pcs Woofers
2pcs Tweeters
2pcs Crossovers

Included accessories:
2pcs Stainless steel Cruise logo badges
2pcs Flat bottom adapters
2pcs Woofer connection cables
2pcs Tweeter connection cables
4pcs Adhesive foams for wrapping
2pcs Four-leaf clover foams for tweeter
4pcs Adhesive foam rings for tweeter
8pcs Terminal crimp connectors
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. 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 described car models. 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 damaging the plastic clips.

Installation

Tools needed

- Bit screwdriver
- Bit socket M10 wrench size
- Small flat head screwdriver
- Plastic pry tool (included)
- Rivet tool (in some cases)

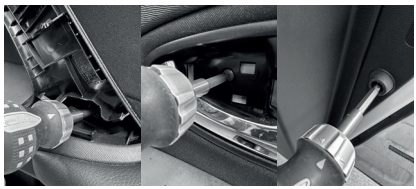
Remove Door Panel

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.

Remove the plastic covers of door handle and door opener.

In most cases the screws used are Phillips type, use a tool bit PH2 size. 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. Pry the door panel gently, but firm, outward to release the clips.

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

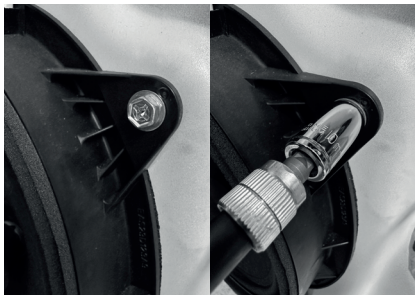
There are several electrical and mechanical connectors on the backside of the panel. Start with detaching the release cable/cables from the door handle. The door release cable is now loose and can be removed from the front turning the cable and unhooking it.

Disconnect electrical connections for the window control panel and door lights.

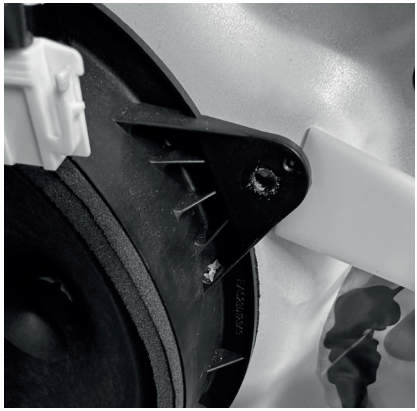
Remove Speaker

Release the speaker connector.

Remove the speaker by unscrewing the M10 or PH2 screws.



Use the pry tool to release the speaker from the door.



Mount DLS Speaker

Install the speaker to the door by using the OEM M10 or PH2 screws. Make sure the speaker is properly mounted and fits nicely.

Reconnect the speaker connector in the new DLS speaker.

Remount Door Panel

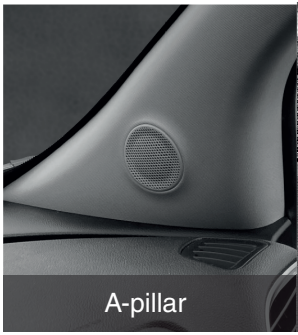
Start the reassembly of the door panels. Follow this manual in reverse order.

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, dashboard or side mirror.

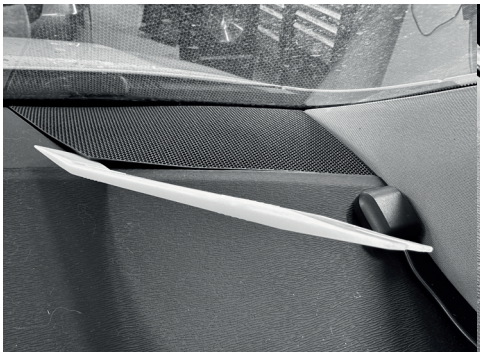


A-pillar

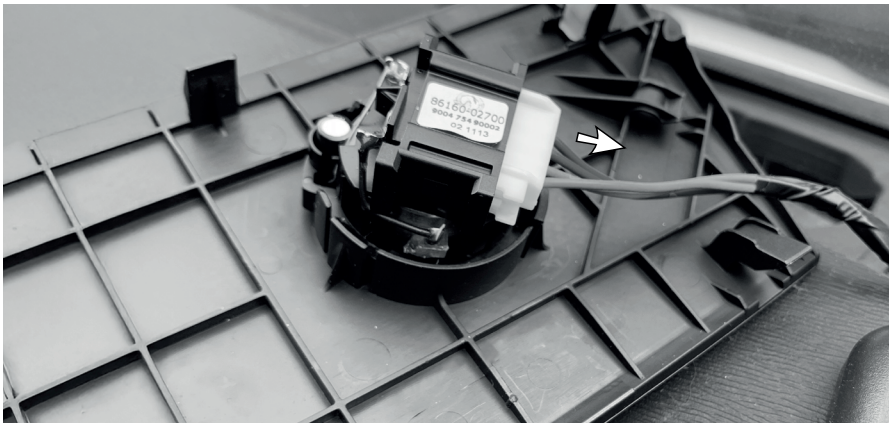
Dashboard

Side mirror

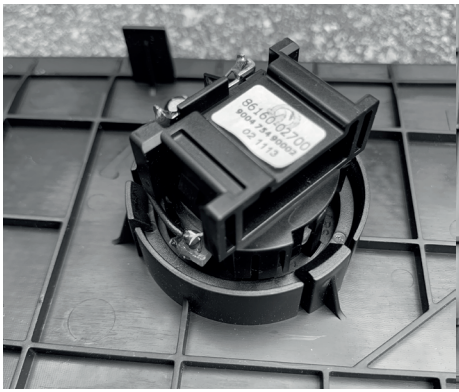
Start by removing the tweeter covers. Use plastic pry tools and be careful. The clips can be hard to remove. Take it easy and use minimal force. The instructions below show how to remove the dashboard tweeter.



Un-clip the speaker connector from tweeter.



The OEM tweeter is snapped into a holder in the Dashboard grille 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 way as the OEM tweeter. Make sure that the DLS tweeter is properly seated. For extra stability of the tweeter installation, the adhesive four-leaf clover foam pad can be used. Ensure that the DLS tweeter is installed firmly in place with no risk of movement.

For some models, the four-leaf clover needs to be adapted. Use a sharp scissor to adapt and modify it.

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

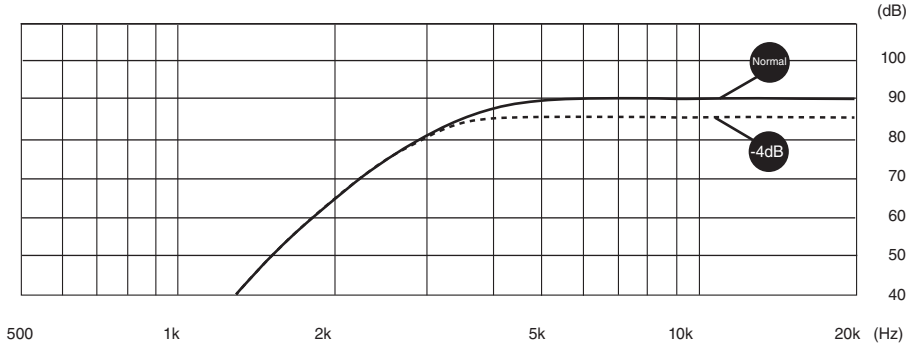
Connect the crossover using the factory connector. Use the remaining wrapping foam to secure the crossover and cables.

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 component kit, 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-TO1.7 Component Kit
Technical Specifications

Size	7” / 178 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-TO1.7 Woofer
Technical Specifications

Size	7” / 178 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	3.2 Ohm
Fs	64.2 Hz
Mms	18.2 g
Cms	0.77
Vas	12.8 L
Qts	0.83
Qes	0.96
Qms	6.18
Bl	4.84 Tm
Spl	89.5 dB 1W/1m
Sd	165 cm²

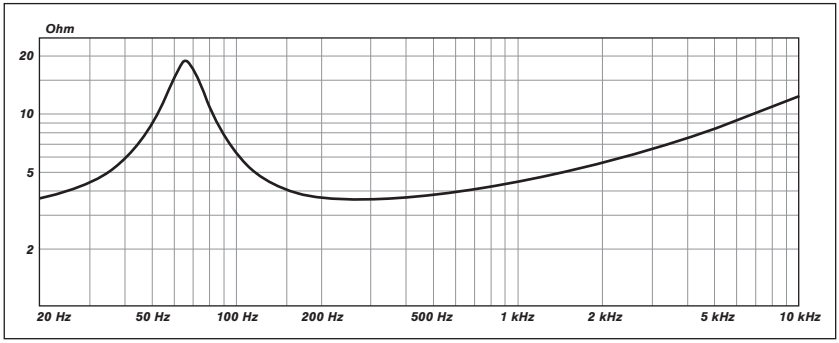
DLS Cruise CRPP-TO1.7 Tweeter
Technical Specifications

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

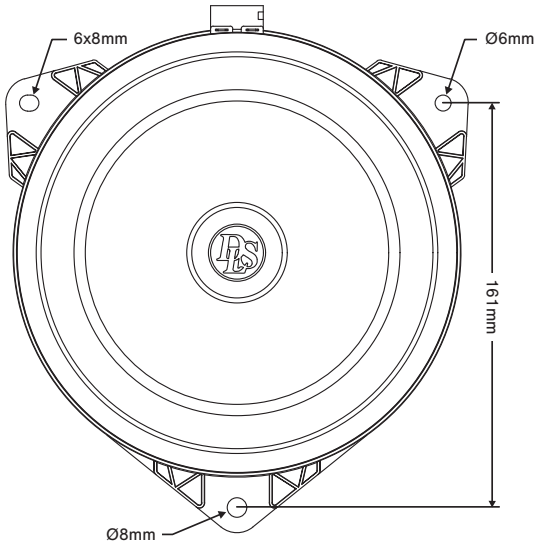
Electro-Acoustic Parameters

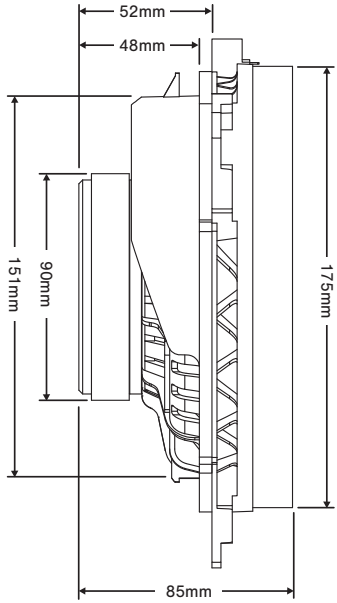
Re	3.5 Ohm
Fs	1992 Hz
SPL	94 dB 1W/1m

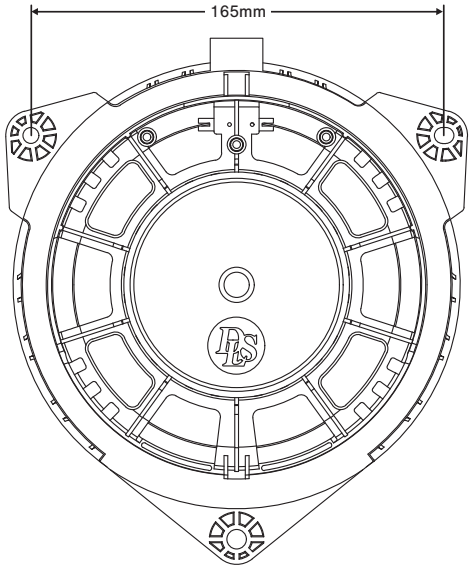
Impedance vs. Frequency

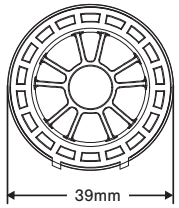


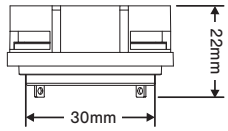
Dimensions


6x8mm
Ø6mm
161mm
Ø8mm


52mm
48mm
151mm
90mm
175mm
85mm


165mm


39mm


22mm
30mm

Compatible Car Models

DLS Cruise CRPP-TO1.7 & CRPP-TO1.7CX

Make	Model	Year	Front speaker	Rear speaker
Toyota	Alphard AH20	2008-2015	-	CRPP-TO1.7
Toyota	Alphard AH30	2015-2022	-	CRPP-TO1.7
Toyota	Altis	2013-2018	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Aqua	2012-2022	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Auris	2006-2021	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Avensis T25	2003-2009	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Aygo	2014-2018	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	C-HR	2016-2019	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	C-HR	2019-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Camry V	1997-2001	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Celica	2000-2005	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Corolla IX/X Verso	2001-2012	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Corolla XI	2013-2018	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Corolla XII	2019-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Corolla Cross	2019-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Corolla GR	2022-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Crown SUV	2012-2016	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Echo	2000-2005	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Esquire	2014-2021	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Etios Liva	2012-2012	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Fortuner	2004-2012	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Fortuner	2019-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Frontlander	2022-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	GT86	2012-2016	CRPP-TO1.7	-
Toyota	GT86 II	2016-2021	CRPP-TO1.7	-
Toyota	GR86	2022-2023	CRPP-TO1.7	-
Toyota	Harrier II	1998-2013	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Harrier III	2013-2020	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Harrier IV	2021-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Highlander	2001-2007	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Highlander III/IV	2008-2019	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Hilux	2006-2019	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Hilux	2020-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Innova	2015-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	IQ	2009-2015	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Izoa	2018-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Land Cruiser 100 series	2003-2007	CRPP-TO1.7	CRPP-TO1.7
Toyota	Land Cruiser 200 series	2008-2021	-	CRPP-TO1.7
Toyota	Levin	2018-2022	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Matrix	2002-2014	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Mirai	2015-2022	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	MR2	1997-2007	CRPP-TO1.7	-
Toyota	Nav 1	2012-2017	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Noah X	2018-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Prius C	2012-2021	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Prius C Crossover	2018-2022	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Prius I	2001-2005	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Prius II	2004-2009	CRPP-TO1.7	CRPP-TO1.7CX

Make	Model	Year	Front speaker	Rear speaker
Toyota	Prius IV	2016-2022	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Raize	2021-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Rav 4	2001-2018	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Rav 4	2019-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Sequoia I	2001-2007	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Sienna	1998-2004	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Sienta	2015-2021	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Solara I	1998-2003	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	SW4	2006-2018	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Tundra II Double Cab	2000-2007	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Urban Cruiser	2009-2014	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Vellfire AH20	2008-2015	-	CRPP-TO1.7
Toyota	Vellfire AH30	2015-2022	-	CRPP-TO1.7
Toyota	Venza	2020-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Vios	2005-2018	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Voxy	2018-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Vitz	2005-2018	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Yaris/Vitz	2005-2011	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Yaris/Vitz	2011-2020	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Yaris/Vitz	2020-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Yaris IA	2015-2018	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Yaris	2021-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Yaris Cross	2021-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Yaris GR	2021-2023	CRPP-TO1.7	CRPP-TO1.7CX
Toyota	Wildlander	2019-2023	CRPP-TO1.7	CRPP-TO1.7CX
Lexus	ES V	2002-2012	CRPP-TO1.7	CRPP-TO1.7CX
Lexus	GS III	2006-2011	CRPP-TO1.7	CRPP-TO1.7CX
Lexus	GS IV	2012-2020	CRPP-TO1.7	CRPP-TO1.7CX
Lexus	IS	2001-2006	CRPP-TO1.7	CRPP-TO1.7CX
Lexus	IS II	2006-2012	CRPP-TO1.7	CRPP-TO1.7CX
Lexus	IS III	2012-2020	CRPP-TO1.7	CRPP-TO1.7CX
Lexus	IS IV	2020-2022	CRPP-TO1.7	CRPP-TO1.7
Lexus	LM	2020-2022	-	CRPP-TO1.7
Lexus	NX	2015-2021	CRPP-TO1.7	CRPP-TO1.7CX
Lexus	NX II	2021-2022	CRPP-TO1.7	CRPP-TO1.7
Lexus	RX	1998-2003	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	BRZ	2012-2021	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	BRZ II	2021-2023	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	Crosstrek XV	2013-2018	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	Forester III	2008-2013	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	Impreza III	2007-2014	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	Impreza IV	2014-2019	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	Legacy V	2009-2014	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	Legacy VI	2015-2019	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	Outback IV	2012-2014	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	WRX/STI	2014-2017	CRPP-TO1.7	CRPP-TO1.7CX
Subaru	WRX/STI VA	2018-2021	CRPP-TO1.7	CRPP-TO1.7CX
Suzuki	Across	2020-2023	CRPP-TO1.7	CRPP-TO1.7CX
Suzuki	Swace	2020-2023	CRPP-TO1.7	CRPP-TO1.7CX

Make	Model	Year	Front speaker	Rear speaker
Scion	FRS	2012-2016	CRPP-TO1.7	CRPP-TO1.7CX
Scion	IA	2015-2018	CRPP-TO1.7	CRPP-TO1.7CX
Scion	IQ	2008-2015	CRPP-TO1.7	CRPP-TO1.7CX
Scion	IM	2016-2023	CRPP-TO1.7	CRPP-TO1.7CX
Scion	TC	2004-2016	CRPP-TO1.7	CRPP-TO1.7CX
Scion	XA	2004-2009	CRPP-TO1.7	CRPP-TO1.7CX
Scion	XB	2004-2015	CRPP-TO1.7	CRPP-TO1.7CX
Scion	XD	2009-2014	CRPP-TO1.7	CRPP-TO1.7CX
Citroen	C1	2014-2022	CRPP-TO1.7	CRPP-TO1.7CX
Peugeot	108	2014-2021	CRPP-TO1.7	CRPP-TO1.7CX
Pontiac	Vibe	2003-2010	CRPP-TO1.7	CRPP-TO1.7CX

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 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 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.


CRUISE