



DLS PERFORMANCE SPEAKERS

OWNERS MANUAL

M524
2-way coaxial

Welcome

Thank you for buying a DLS speaker. This model is a part of DLS Performance speaker line.

Install the speakers yourself if you feel confident with our instructions and if you have the proper tools. A poor installation job can destroy the final result even from these speakers, so if you feel unsure, turn over the installation job to someone better suited to it.

Two-way coaxial system

These speakers have small installation depth and fits most modern vehicles. Install the filters in a dry place. Fasten them with wire ties or similar. On the right you can see how to connect the filters.

Installation

Speaker drivers:

Mount the speakers in the door sides of your car. We recommend you to install the drivers in a strong baffle of MDF-board or similar, this will improve the sound very much. For baffle installation see our advices on next page. If it is possible you should attach an asphalt damping mat to the door inside, this will further improve the sound.

It is important to fasten the speakers properly in order to avoid bad sound or rattling

Filters:

It's vital that the filters are attached properly to the interior of the vehicle. Don't place them close to the internal wiring of the car, this can cause interference. Install them in a dry place. Fasten them with screws or wire ties. If installed in the door side face the connections downwards to avoid moisture inside the filter.

The filters must be used, if you connect without them the sound becomes bad and you will destroy the tweeter.

Wiring:

Use high quality speaker cables. Make sure the cables don't get jammed causing a short circuit to ground. This can damage the output circuits of your head unit or amplifier.

Break-in period

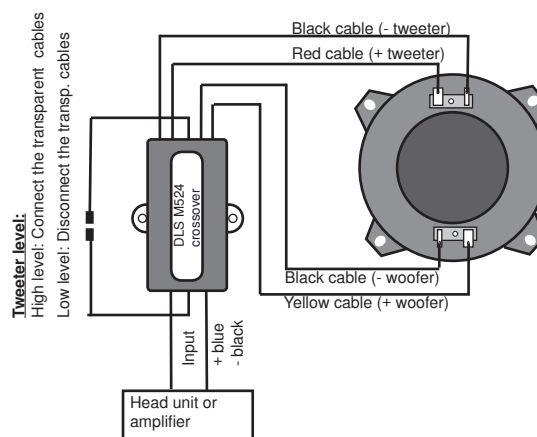
Allow the speakers to play at normal volume for at least 15-20 hours. After this time the performance will be correct.

Warranty service

This speaker 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 (or a copy) with the product.

Connection of speakers

Make sure you connect the cables with correct polarity to the speakers. Observe the markings on the terminals.



Speaker phasing

To be sure to have the correct speaker polarity (phase) you can check this by using a 1,5 Volt battery.

Connect a cable from the battery plus-pole to the speaker plus, and a cable from the battery minus to the speaker minus.

When the speakers are correctly connected the speaker cone should move outwards on both right and left channel.

This check must be made on the cables going from the speakers, to the output terminals of your car stereo or amplifier.

Technical data:

Article number	10-22524
Bass driver	102 mm / 4"
Tweeter	20 mm soft dome
Impedance	4 ohm
Nom. RMS power	60 Watt
Max / Peak-power	90 / 180 Watt
Frequency range	60 Hz - 20 kHz
Magnet size	80 mm / 3,15"
Mounting hole	97 mm (3,81")
Mounting depth	60 mm (2,36")

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Technical Assistance

For technical assistance ask the shop where the product was sold or the distributor in your country.

You can also send an e-mail to 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 specifications & designs may be changed without prior notice.



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