



# DLS ULTIMATE SPEAKERS OWNERS MANUAL

**UPI4**  
**2-way kit**  
**4" / 10 cm**

## DLS ULTIMATE KIT UPI4

Thank you for buying a DLS ULTIMATE 2-way speaker kit. This kit must be installed in a correct way to give the wanted performance. Read the entire manual before starting the install job. Install the speakers yourself if you feel confident with our instructions and if you have the proper tools. If not, turn over the installation job to someone better suited to it.

### Installation of speaker drivers

Mount the bass speakers in the door sides or on the dashboard. An installation high up on the door side is to be preferred.

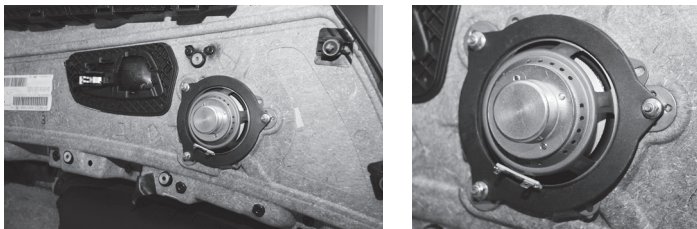
The tweeters can be installed recessed in the door, on the dash board or in the A-pillar.

It's vital that the filter boxes are attached properly to the interior of the vehicle to avoid rattling. Don't place them close to the internal wiring of the car, this can cause interference.

Avoid installing the filter boxes in the door sides because they can easily be broken because of rattling or moisture.

### Installation in BMW cars

This speaker kit can be installed in BMW-cars if the 4" drivers have four attachments. For BMW-cars with three attachments you can use the adaptor rings coming with this kit. Fasten as in the pictures below. The driver is squeezed under the adaptor ring.



The tweeter (RC25) fits directly in the A-pillar tweeter attachment but we recommend the use of hot melt glue to secure it to the surface.

### 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.

### Connection

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

### 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](mailto:info@dls.se)

Information can also be found on our website: [www.dls.se](http://www.dls.se)

### Warranty

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.

### Technical facts

Art. number	10-25104 (for the complete kit)
Size, woofer	10 cm (4")
Size, tweeter	25 mm / 1" (RC25)
Impedance Z	4 ohm
Nom. power (RMS)	80 W
Max power	160 W
Frequency range	65 Hz - 20 kHz
HP-filter	200 Hz / 12 dB slope
Magnet, diameter / height	35 x 14 mm (neodymium)
Cone material	Kevlar®

\*Kevlar is a registered trade mark of duPont

### Size of drivers:

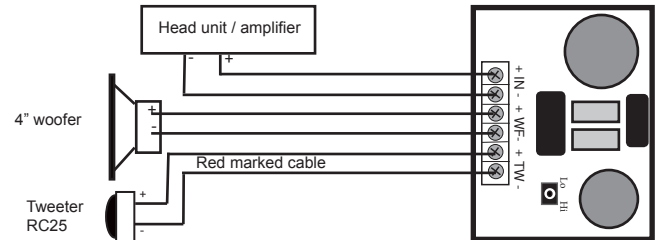
Installation depth	Bass 45 mm, tweeter 20 mm
Mounting hole	Bass 100 mm, tweeter 46 mm
Outer diameter	Bass 100 / 129 mm, tweeter 42 mm

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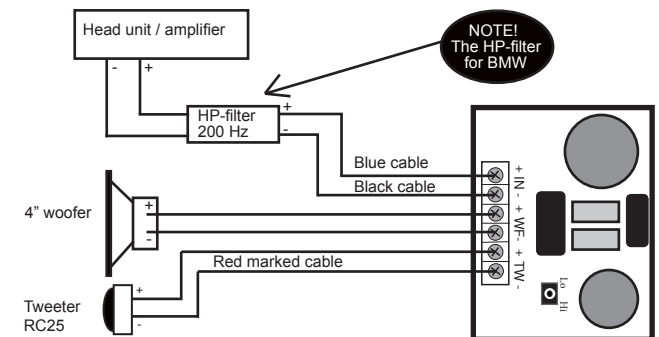
### Crossover / filter connection

This drawing show how to connect the drivers to the passive crossover. The speaker can be connected with or without the separate high pass filter. The high-pass filter is used when connected in BMW cars with separate subwoofer.

#### Standard installation:



#### Installation in BMW cars:



### Tweeter level select switch (SW1)

1. Tweeter level select is used to adjust the tweeter level. In position Hi the level is +2 dB higher than in Lo. Try which level that sounds best in your installation.

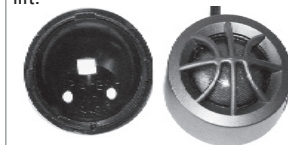
2. The separate HP filter / crossover ( HP= High pass) is only used when installed in BMW cars equipped with originally installed subwoofer. In this case connect the filter before the crossover input. This will reduce frequencies below 200Hz, this will improve the sound in BMW.

### Installation of RC25 tweeter

#### Surface mounting:

For angled surface mount together with the angled cup:

The tweeter drivers is attached to the cup by fitting the three wings on the angled cup into the tracks of the driver and then turn it clockwise. When removing the driver from the cup, turn it ccw and lift.



#### Recessed mounting:

You need a hole with a diameter of 46 mm / 1,81" in the door side. Put the two metal wings through the two tracks in the centre of the cup, just as the picture shows, and attach them with the M4 screw and nut through the centre hole. The cup is attached to the door side when the metal wings are pressed to the back side of the door.

Put the tweeter driver into the cup with the cable going out through the bottom hole. Then attach the driver into the cup and turn it clockwise to attach to the cup. When removing the tweeter driver from the cup, turn it ccw and lift it up.

#### T25 tweeter in BMW

