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E S O T E C

High-End Mobile Loudspeaker Systems



Introduction

Dear Music Lover,

Thank you for your decision to acquire Dynaudio Automotive Loudspeakers for after-market installation. The Dynaudio Esotec Systems range has been developed to the same high standard as the company's renowned home audio and professional studio loudspeaker products. The Dynaudio Automotive Esotec range is specifically engineered for optimum performance in a vehicle to ensure the most precise in-car music reproduction achievable. Dynaudio's advanced technology is the result of many years of intense research and development mated to the highest quality standards in production and the company's enduring passion for musical truth.



Dynaudio is one of very few audio companies producing loudspeaker drivers in-house through its own dedicated development and production departments. All Dynaudio loudspeakers are engineered and manufactured in Denmark from the finest grade materials to the company's extremely high quality standards, and each must pass no less than 86 individual testing stations, representing the most stringent such measures in the industry. The state-of-the-art Dynaudio manufacturing facility is so advanced and features such strict quality control measures that Dynaudio is likely the only specialty audio company to have exceeded the ISO 9000 quality standard and earn QS 9000 certification.

We wish you many years of enjoying and experiencing music at the highest level of performance,

Dynaudio

About this installation manual

This installation manual provides all technical specifications, installation dimensions and crossover connection instructions for the Dynaudio Esotec series. To realize the full potential of Dynaudio Esotec systems, some areas should be addressed, as touched upon in the following pages.

Due to the great variety of installation conditions it will not give specific instructions how to install the systems into your car. Please refer to the operating manual of your car or ask your local automotive dealer for further help. To observe all relevant matters and thus maximizing the tremendous performance potential of your Dynaudio Esotec loudspeaker system in your car, ask your authorized Dynaudio automotive loudspeaker dealer for assistance. He has the knowledge and expertise to perform a high quality aftermarket installation.

Safety information

As all Dynaudio Esotec Series components are passive (meaning these rely on external amplification), the components themselves can not cause any damage.

However, the components can be damaged beyond repair unless a few ground rules are observed:

- ▶ Insure all components are properly installed
- ▶ Observe the technical specifications
- ▶ Always use high-quality cabling and amplification

CAUTION



HIGH SOUND PRESSURE LEVELS

Listening to high sound pressure levels over a longer period of time may harm your hearing.

- ▶ To avoid auditory effects do not listen to high sound levels over a longer period of time.
-

Warranty

Dynaudio provides a limited manufacturer's warranty on Dynaudio Esotec products. Please check with your local distributor for warranty conditions.



This warranty only covers faults or defects in material and production. Damage caused as a result of abuse, misuse or defective electronics is not covered by the warranty. The warranty will only be valid if the metallic Dynaudio holographic safety label is on the driver.

The warranty is valid only if the product is purchased from an authorized Dynaudio Esotec dealer. All warranty claims must be accompanied by a copy of the original purchase invoice and warranties are only valid in the country or market of original origin or distribution. Should warranty service be required, it must be arranged for in the country of purchase by an authorized Dynaudio Esotec dealer.

Technical specifications

Tweeter/Midrange

| | MD 102 | MD 142 |
|-----------------------------|-----------------|---------------|
| Nominal impedance | 8 Ω | 8 Ω |
| Recommended frequency range | 2200 – 30000 Hz | 700 – 6000 Hz |
| Power handling | | |
| • Nominal long term IEC | 100 W | 100 W |
| • Transient | 500 W | 1000 W |
| Net weight | 0.126 kg | 0.75 kg |
| Overall dimensions (Ø x D) | 62.2 x 43 mm | 121 x 66 mm |



Woofer

| | MW 152 | MW 162 | MW 162 GT | MW 172 | MW 182 |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|
| Nominal impedance | 4 Ω | 4 Ω | 4 Ω | 4 Ω | 4 Ω |
| Recommended frequency range | 55 – 3500 Hz | 40 – 4000 Hz | 40 – 4000 Hz | 35 – 3500 Hz | 30 – 2000 Hz |
| Power handling | | | | | |
| • Nominal long term IEC | 100 W | 120 W | 120 W | 150 W | 180 W |
| • Transient | 1000 W | 1000 W | 1000 W | 1000 W | 1000 W |
| Net weight | 1.1 kg | 1.2 kg | 1.1 kg | 1.3 kg | 1.85 kg |
| Overall dimensions (Ø x D) | 146 x 70 mm | 175 x 77 mm | 166 x 71 mm | 200 x 88 mm | 239 x 86 mm |

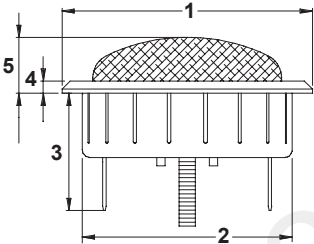
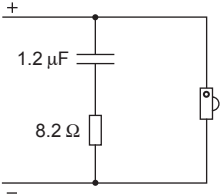
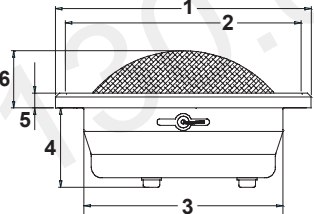
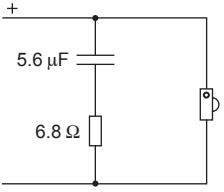


Crossover

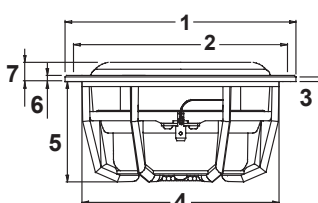
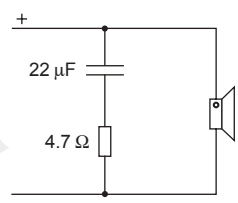
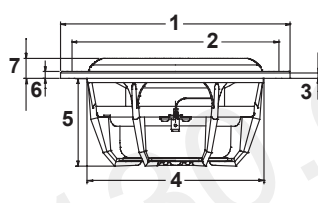
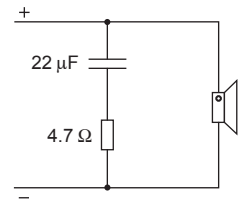
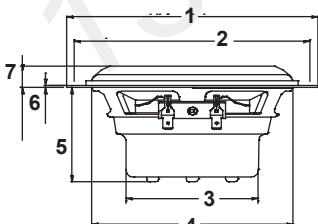
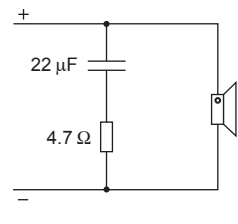
| | X 252 | X362 |
|-----------------------|------------------|-------------------|
| Crossover frequencies | 2200 Hz | 900 Hz / 3500 Hz |
| Nominal impedance | 4 Ω | 4 Ω |
| Power handling | | |
| • MW 152 | 100 W | – |
| • MW 162/162 GT | 120 W | 200 W |
| • MW 172 | 150 W | 200 W |
| • MW 182 | – | 200 W |
| Dimensions | 38 x 84 x 145 mm | 43 x 104 x 175 mm |
| Net weight | 0.33 kg | 0.60 kg |

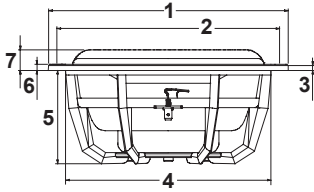
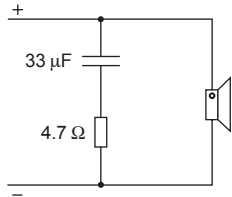
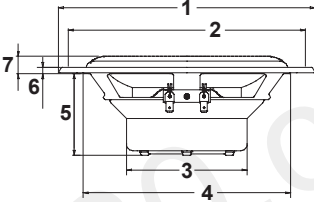
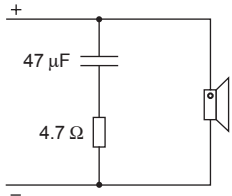
Installation dimensions and impedance correction circuit

Tweeter/Midrange

| | Installation dimensions (in mm) | Impedance correction circuit |
|--------|--|---|
| MD 102 |  <ul style="list-style-type: none"> 1 Max. Ø 62.2 2 Mounting hole Ø 52.1 - 55.5 3 29.1 4 3 5 13.86 |  |
| MD 142 |  <ul style="list-style-type: none"> 1 Max. Ø 121 2 3 holes Ø 4 on Ø 110.9 3 Mounting hole Ø 96 (add cut-outs for terminals) 4 Max. 37.5 5 7.5 6 Max. 30 |  |

Woofers

| | Installation dimensions (in mm) | Impedance correction circuit |
|-----------|--|---|
| MW 152 |  <ol style="list-style-type: none"> 1 Max. \varnothing 145.5 2 6 holes \varnothing 4.3 on \varnothing 134.5 3 3 4 Mounting hole min. \varnothing 124.5 5 63 6 4.3 7 Max. cone excursion 13 |  |
| MW 162 |  <ol style="list-style-type: none"> 1 Max. \varnothing 175 2 6 holes \varnothing 4.3 on \varnothing 158 3 3 4 Mounting hole min. 136 5 67 6 5 7 Max. cone excursion 15 |  |
| MW 162 GT |  <ol style="list-style-type: none"> 1 Max. \varnothing 166 2 4 holes \varnothing 7.5 on \varnothing 155 3 \varnothing 88 4 Min. baffle hole \varnothing 134 5 62 6 1.5 7 Max. cone excursion 14 |  |

| | Installation dimensions (in mm) | Impedance correction circuit |
|--------|---|---|
| MW 172 |  <ul style="list-style-type: none"> 1 Max. Ø 200 2 6 holes Ø 4.2 on Ø 185.75 3 4.2 4 Mounting hole min. Ø 172 5 77.9 6 5.4 7 Max. cone excursion 17 |  |
| MW 182 |  <ul style="list-style-type: none"> 1 Max. Ø 239 2 6 holes Ø 4.5 on Ø 219 3 Ø 113 4 Mounting hole min. Ø 195 5 75 6 5.9 7 Max. cone excursion 16 |  |

Esotec systems overview



Two-way systems

| | Bass | Mid | High | Crossover |
|---------------|-----------|-----|--------|-----------|
| System 222 | MW 152 | – | MD 102 | X 252 |
| System 242 | MW 162 | – | MD 102 | X 252 |
| System 242 GT | MW 162 GT | – | MD 102 | X 252 |



Three-way systems

| | Bass | Mid | High | Crossover |
|------------|-------------|------------|-------------|------------------|
| System 342 | MW 162 | MD 142 | MD 102 | X 362 |
| System 362 | MW 172 | MD 142 | MD 102 | X 362 |

Connecting the crossover

2-way crossover X 252

| Terminal label | | Connections |
|----------------|--|-------------|
| 1 | | Amplifier |
| 2 | | |
| 3 | | Woofers |
| 4 | | |
| 5 | | Tweeter |
| 6 | | |
| 7 | | |
| 8 | | |

1. To connect the woofer

- ▶ Connect terminal **3** to the **+** terminal of the woofer.
- ▶ Connect terminal **4** to the **-** terminal of the woofer.

2. To connect the tweeter

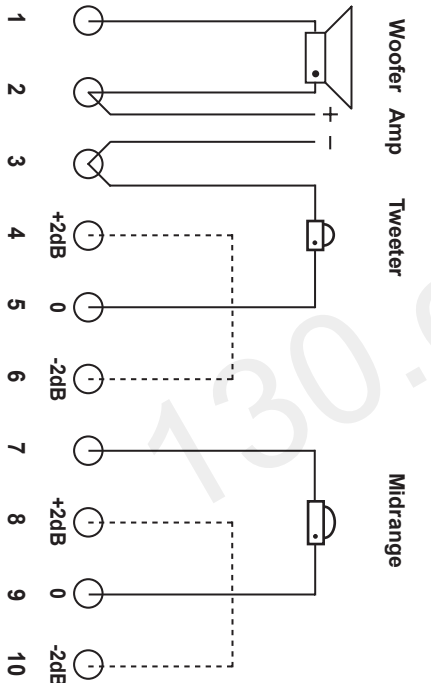
The terminals **5**, **6** and **7** provide an adjustment possibility of the sound level. This makes it possible to adjust the level according to the placement of the speaker in the car and to your personal preference.

- ▶ Connect terminal **5** or **6** or **7** to the **+** terminal of the tweeter:
 - just use one of the terminals **5**, **6** or **7**
 - start with terminal **6** for a first setup
 - use terminal **5** to **increase** sound pressure level by 2 dB
 - use terminal **7** to **decrease** sound pressure level by 2 dB
- ▶ Connect terminal **8** to the **-** terminal of the tweeter.

3. To connect the power amplifier

- ▶ Connect terminal **1** to the **+** terminal of the power amplifier.
- ▶ Connect terminal **2** to the **-** terminal of the power amplifier.

3-way crossover X 362

| Terminal label | Connections |
|---|--|
|  <p>The diagram shows a 3-way crossover with three main sections: Woofer Amp, Tweeter, and Midrange. Each section has two terminals (1 and 2 for Woofer, 4 and 5 for Tweeter, 7 and 8 for Midrange) and three dB adjustment terminals (+2dB, 0, -2dB). The Woofer Amp section is connected to terminals 1 and 2. The Tweeter section is connected to terminals 4 and 5. The Midrange section is connected to terminals 7 and 8. The dB adjustment terminals are connected to the crossover network via dashed lines.</p> | <p>1 To woofer: – terminal</p> <p>2 To woofer: + terminal To power amplifier: + terminal</p> <p>3 To power amplifier: – terminal To tweeter: – terminal</p> <p>4 To tweeter: + terminal, +2dB</p> <p>5 To tweeter: + terminal, standard</p> <p>6 To tweeter: + terminal, –2dB</p> <p>7 To midrange: – terminal</p> <p>8 To midrange: + terminal, +2dB</p> <p>9 To midrange: + terminal, standard</p> <p>10 To midrange: + terminal, –2dB</p> |

1. To connect the woofer

- ▶ Connect terminal **1** to the – terminal of the woofer.
- ▶ Connect terminal **2** to the + terminal of the woofer.

2. To connect the tweeter

The terminals **4**, **5** and **6** provide an adjustment possibility of the sound level. This makes it possible to adjust the level according to the placement of the speaker in the car and to your personal preference.

- ▶ Connect terminal **3** to the – terminal of the tweeter.
- ▶ Connect terminal **4** or **5** or **6** to the + terminal of the tweeter.
 - just use one of the terminals **4**, **5** or **6**
 - start with terminal **5** for a first setup
 - use terminal **4** to **increase** sound pressure level by 2 dB
 - use terminal **6** to **decrease** sound pressure level by 2 dB

3. To connect the midrange

The terminals **8**, **9** and **10** provide an adjustment possibility of the sound level. This makes it possible to adjust the level according to the placement of the speaker in the car and to your personal preference.

- ▶ Connect terminal **7** to the – terminal of the midrange.
- ▶ Connect terminal **8** or **9** or **10** to the + terminal of the midrange.
 - just use one of the terminals **8**, **9** or **10**
 - start with terminal **9** for a first setup
 - use terminal **8** to **increase** sound pressure level by 2 dB
 - use terminal **10** to **decrease** sound pressure level by 2 dB

4. To connect the power amplifier

- ▶ Connect terminal **2** to the + terminal of the power amplifier.
- ▶ Connect terminal **3** to the – terminal of the power amplifier.

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E S O T E C



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