# Installation Manual for MB/E/100FS.RE

MB/E/100FS.RE

Mercedes Benz E-Class Full-Set Package Retro

Part Nr. 280117

## Please read installation manual carefully before beginning installation!



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Dear Music Lover.

We congratulate you on your purchase of our superior product and thank you for placing your trust in rainbow. With over 30 years of engineering expertise in car audio speakers and belief in Golden Spiral for product design, rainbow has created a wide range of products that reproduce life-like sound with all the details and emotions you can hope for. Rainbow guarantees outstanding quality and we wish you many pleasant hours enjoying your favorite music with our high-performance products. We have put together this installation manual with great consideration of different mechanical and acoustical features to help you better understand and operate rainbow products. And we'd love to hear your questions, feedback and improvement suggestions via email info@rainbow-audio.de.

Best wishes.

Your Rainbow Team

## Safety Instruction

#### Attention

Please read all warnings found in this manual. This information is included and highlighted to inform you of the potential risks of personal injury or damage to property.

Our products are intended for those who want to upgrade their car audio systems and enjoy unbeatable sound performance in cars. The relevant safety regulations regarding related auto parts, the regulations of internal vehicle safety, as well as the regulations of the authorized vehicle manufacturers should be followed diligently.

#### **Hearing Damage**

Continuous exposure to sound pressure levels over 85 dB may cause permanent hearing loss. High-powered auto sound system could produce sound pressure levels over 130 dB, which may cause damage to hearing. Use common sense and avoid such risks.

#### Volume and Driver Awareness

Use of audio components can impair your ability to hear necessary traffic sounds and may constitute a safety hazard while driving your automobile.

Rainbow accepts no liability for hearing loss, bodily injury or property damage as a result of use or misuse of this product.

#### Installation Notice

Do not use your automobile until all components have been secured to the interior framework. Failure to do so may turn a component into a dangerous, fiving projectile during a sudden stop or accident.

We recommend disconnecting the battery before beginning installation of the loudspeaker system. Please ask your car dealer if disconnecting the battery is feasible without any problems.

Always be meticulous when removing interior trim panels. Car manufacturers use a variety of fastening devices that can be damaged in the disassembly process.

If sheet metal must be cut or removed, contact your authorized car dealer for professional advice. By damage to supporting body structures the safety certificate may be withdrawn.

#### Shock Hazard!

Do not touch the connectors while the system is running.

#### Mechanical Installation

This Mercedes Benz E-Class full-set package retro offers plug and play solutions and can be easily mounted in the car. First, remove necessary panels or door panels, replace OEM loudspeakers with rainbow plug and play component set and make sure to properly connect the DSP amplifier. Then reattach the panels removed.

#### Warranty

All rainbow products come with a year's warranty on all parts, starting from the date of purchase from the authorized retailer. Only the first buyer is entitled to this warranty policy, which would be invalid in case of products being transferred.

The warranty covers all material and manufacturing defects, however it does not cover mechanical defects, defects caused by electrical overload and foreign interference by unauthorized people.

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## TECHNICAL DATA

MB/E/100FS.RE	Tweeter	Midrange	Woofer	Center channel speaker	Overhead speaker
Size	1 inch	4 inch	8 inch	4 inch	2 inch
RMS power	10 W	20 W	80 W	20 W	10 W
Peak power	20 W	40 W	160 W	40 W	20 W
Impedance	4 Ohm	4 Ohm	4 Ohm	4+4 Ohm	4 Ohm
Frequency response	1kHz - 20kHz	100Hz <b>-</b> 7kHz	40Hz - 1kHz	100Hz - 7kHz	200Hz - 10kHz
Sensitivity	85 dB/W/m	85 dB/W/m	85 dB/W/m	84 dB/W/m	83 dB/W/m

DSP amplifier L8.2		
Input signal	6-channel high level	
Output signal	8*30W + 2*100W	
Input sensitivity	28Vpp (high level)	
High level input impedance	107 Ohm	
Frequency response	20Hz - 20kHz	
S/N	≥90dB	
THD	≤0.01%	
Dimensions (L*W*H)	294mm*128mm*52mm	

## TECHNICAL DATA

DSP amplifier L8.2	1 inch aluminur	n dome tweeter	4 inch crystal cone midrange speaker	
×1	×2		×4	
4 inch crystal cone center channel speaker	8 inch Kevla paper cone	ar compound woofer (left)	8 inch Kevlar compound paper cone woofer (right)	
×1	×1		×1	
Midrange speaker grill cover	2 inch PP cone overhead speaker with grill cover		Plug and play cable kit	
randam ×4	×2			
Screws kit			DSP amplifier rack	

#### 亲爱的音乐爱好者:

祝贺您购买了我们的优质产品,感谢您对彩虹的信任。彩虹拥有超过30年的汽车音响产品开发技术和生产经验,并遵循拥有两千多年历史的黄金分割率,制造出富有音乐感、声音自然动听的音响器材。彩虹汽车音响音质卓越,性能优良,让您尽情享受音乐之美。我们结合了不同的机械和汽车声学特点编写了这本安装手册,帮助您更好地了解和使用彩虹产品。如您有任何疑问、反馈和改善建议,请发邮件至info@rainbow-audio.de,我们将不胜感激。

最美好的祝愿

彩虹团队

### 安全指南

#### 注意

请仔细阅读用户手册中的警示,我们在此注明并强调这些信息是为提醒您免受潜在的人身伤害或设备 损坏。

如您想要升级汽车音响系统、乐享旅程,彩虹产品一定是您的不二之选。汽车零部件相关安全守则,车内安全守则和授权汽车生产商相关守则都须严格遵守。

#### 听力损害

长时间聆听高于85分贝音量的声音可能会造成永久性听觉损失。而大功率音响系统产生的声音高于 130分贝,可能会损伤听力。请合理调节系统音量及聆听时间,避免以上风险。

#### 音量和安全驾驶

驾驶时,使用音响系统可能会让你听不清周围的交通声,进而引发交通事故。 彩虹对因产品使用不当引起的听力损伤、身体伤害或产品性能损坏概不负责。

#### 安装须知

扬声器系统的全部元件未在车内固定好之前,不要驾驶汽车。否则,在急刹车或汽车事故时,扬声器 元件可能成为危险的抛射物。

建议在开始安装扬声器系统之前取下汽车蓄电池。请咨询您的汽车经销商这样操作是否可行,不会引发任何问题。

拆卸内饰板时须格外小心。汽车生产商使用的多种紧固装置都可能在拆卸过程中被损坏。

如需切割或拆卸金属板,请联系授权汽车经销商,获取专业建议。支撑结构损坏,可能会导致安全证书被撤回。

#### 触电危险!

音响系统运行时,不要触摸接线端口。

#### 机械安装

彩虹奔驰专用的套装扬声器,提供了简单的施工安装方案。拆下原车内饰或车门饰板,通过原车扬声器更换成彩虹专车专用的套装扬声器,并确保DSP功放的专用线束对插连接正确,再把饰板安装复位,无损安装即已完成。

#### 质保

彩虹承诺为所有产品提供1年的法定质保期,确保所有部件在保修期内良好运行。保修期从授权经销商处购买产品之日开始计算。只有一手客户享受质保政策,保修权不可转让。

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## 技术资料

MB/E/100FS.RE	高音喇叭	中音喇叭	低音喇叭	中置喇叭	顶棚环绕喇叭
口径	1寸	4寸	8寸	4寸	2寸
额定功率	10 W	20 W	80 W	20 W	10 W
峰值功率	20 W	40 W	160 W	40 W	20 W
阻抗	4 Ohm	4 Ohm	4 Ohm	4+4 Ohm	4 Ohm
频率响应	1kHz - 20kHz	100Hz - 7kHz	40Hz - 1kHz	100Hz - 7kHz	200Hz - 10kHz
灵敏度	85 dB/W/m	85 dB/W/m	85 dB/W/m	84 dB/W/m	83 dB/W/m

DSP 功放 L8.2		
输入信号	6 路高电平	
输出信号	8*30W + 2*100W	
输入灵敏度	28Vpp (高电平)	
高电平输入阻抗	107 Ohm	
频率响应	20Hz - 20kHz	
信噪比	≥90dB	
总谐波失真	≤0.01%	
尺寸(长*宽*高)	294*mm*128mm*52mm	

## 技术资料

DSP 功放 L8.2	1寸铝膜球顶高音喇叭	4寸水晶振膜盆中音喇叭		
×1		×2 ×4		
4寸水晶振膜盆中置喇叭	8寸防弹布复合纸振膜 低音喇叭(左)	8寸防弹布复合纸振膜 低音喇叭(右)		
×1		×1 ×1		
4寸水晶振膜盆中音喇叭网罩	2寸PP振膜顶棚环绕喇 带不锈钢网罩	叭		
Tradition ×4		×2		
螺丝包		DSP功放支架		