# Installation Manual for Intelligence Line

IL-D4 MB

Mercedes Benz 4 inch crystal cone center speaker

Part Nr. 280146

Please read installation manual carefully before beginning installation!



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Dear Music Lover

We congratuate 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 white 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.

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#### Installation Notice

Do not use your automobile until all components of the budspeaker system have been secured to the interior framework. Failure to do so may turn a component into a dangerous, flying 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,

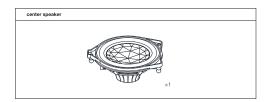
#### Warranty

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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# MAIN COMPONENT



# **TECHNICAL DATA**

#### IL-D4 MB

Frequency Response/Impedance



# **TECHNICAL DATA**

T/S Parameters	
Cone Material	Aluminum
Sensitivity	88 dB/W/m
Nominal Power	20 W
Peak Power	40 W
Impedance	4 Ω
Frequency Response	120Hz - 10kHz
Re	3.4 Ω
Fs	120Hz
Qms	3,6
Qes	0.91
Qts	0.72
Mms	4.05 g
Sd	52 cm <sup>2</sup>
BL	5.0 Tm
Cms	450 uM/N
Vas	1.7 L
Magnet Dimension	24.5*4.5*10 mm N45
Voice Coil Diameter	25.5 mm
Voice Coil Height	6 mm
Mounting Diameter	/
Mounting Depth	/
Weight	1

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#### 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 生产整验,并遵循语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万品。如您有任何疑问、反馈和改善建议,请发 邮件至时向@rainbow-audiode、我们将不胜感激。

#### 最美好的祝愿

彩虹团队

#### 安全指菌

#### 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。身体作事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。

#### 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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# 包装内容





# 技术资料

### IL-D4 MB 頻率响应/阻抗



# 技术资料

技术参数	
振膜	铝膜
灵敏度	88 dB/W/m
额定功率	20 W
峰值功率	40 W
标称阻抗	4Ω
频率响应	120Hz - 10kHz
直流阻抗	3.4 Q
谐振频率	120Hz
机械品质因数值	3.6
电品质因数值	0.91
总品质因数值	0.72
振动质量	4.05 g
振动面积	52 cm²
磁力	5.0 Tm
力順	450 uM/N
等效容积	1.7 L
磁铁尺寸	24.5*4.5*10 mm N45
音圈直径	25.5 mm
音圈高度	6 mm
安装直径	T
安装深度	7
重量	7

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