Eonon GA2187J

Eonon GA2187J 10.1-inch Android 10 Car Navigation System User Manual
Model: GA2187J

1. INTRODUCTION

Thank you for purchasing the Eonon GA2187J 10.1-inch Android 10 Car Navigation System. This manual provides essential information for the safe and efficient use of your device. Please read it thoroughly before installation and operation, and keep it for future reference.
The Eonon GA2187J is a 2-DIN car multimedia system featuring a 10.1-inch IPS touchscreen display, Android 10 operating system, GPS navigation, Bluetooth, Wi-Fi connectivity, and various multimedia functions.

2. SAFETY INFORMATION

- **Professional Installation Recommended:** Installation of this product requires technical expertise. It is strongly recommended to have the unit installed by a qualified professional to prevent damage to the product or your vehicle.

- **Power Supply:** This unit operates on a DC 12V power supply. Ensure correct voltage connections to avoid damage.

- **Driving Safety:** Do not operate the system in a way that distracts you from driving. Always prioritize road safety.

- **Temperature:** Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.

- **Moisture:** Keep the unit away from water and excessive moisture.

- **Cleaning:** Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
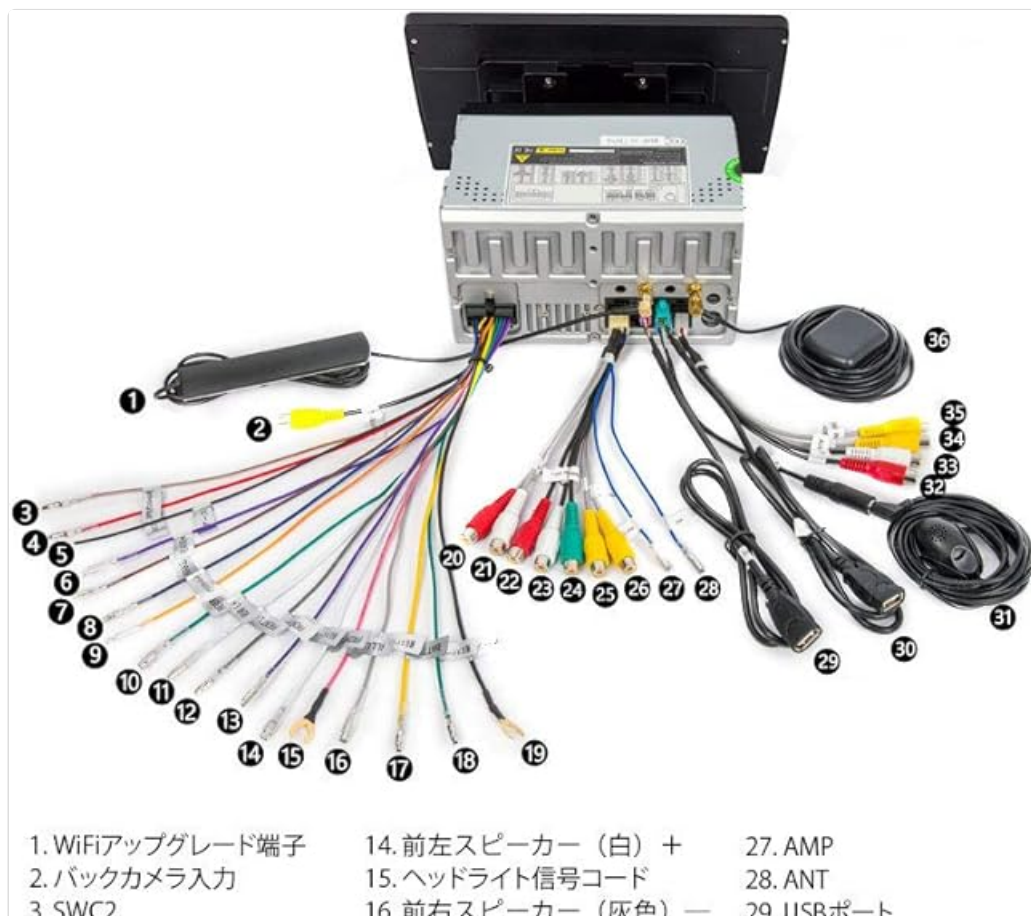
3. PRODUCT OVERVIEW

3.1 Key Features

- Android 10 Operating System

- 10.1-inch IPS Full Touch Capacitive Screen (1024x600 resolution)

- Quad-Core CPU (MTK 8227L 1.2GHz ARM A7)

- 2GB RAM, 16GB Internal Storage

- Built-in GPS Navigation

- Bluetooth 4.0 for Hands-Free Calling and Music Streaming

- Wi-Fi (2.4G) Connectivity

- USB and MicroSD Card Support (up to 64GB)

- Steering Wheel Control Compatibility

- Multi-language Support (85 languages including English and Japanese)

3.2 Package Contents

Verify that all items are present in the package:

- Eonon GA2187J Head Unit x1

- Power Cable x1

- GPS Antenna x1 (3m)

- Wi-Fi Antenna x1 (1.5m)

- AV Cable x2

- USB Cable x2 (1m)

- Microphone x1 (3m)

- 15A Fuse x1

- Disassembly Tool x1

- Mounting Screws x4

- User Manual x1

1. WiFiアップグレード端子	14. 前左スピーカー（白）＋	27. AMP
2. バックカメラ入力	15. ヘッドライト信号コード	28. ANT
3. SWC2	16. 前右スピーカー（灰色）—	29. USBポート

4. ACC
5. GND
6. 後右スピーカー(紫)+
7. ブレーキ信号用コード
8. SWC1
9. リバース信号用コード
10. 後左スピーカー(緑) +
11. 前左スピーカー(白)-
12. 前右スピーカー(灰色)+
13. 後右スピーカー(紫)-

16. 前右スピーカー (灰色)
17. 12Vバッテリー電源コード
18. 後左スピーカー(緑)−
19. アースコード
20. RRオーディオ出力
21. RLオーディオ出力
22. FRオーディオ出力
23. FLオーディオ出力
24. サブウーファー出力
25. ビデオ出力1
26. ビデオ出力2

29. USBポート
30. USBポート
31. 外付けマイク
32. AUXオーディオ入力(右)
33. AUXオーディオ入力(左)
34. ビデオ入力
35. DR-V 入力
36. GPSアンテナ

付属品

1	2	3	4
GPSアンテナ×1 (3m)	電源ケーブル×1	AVケーブル×1	AVケーブル×1

5	6	7	8
マイク×1(3m)	USBケーブル×1(1m)	USBケーブル×1(1m)	Wi-Fiアンテナ ×1 (1.5m)

9	10	11	12
15Aヒューズ×1	分解ツール×1	取付用ネジ×4	説明書×1

Image: Included accessories for the Eonon GA2187J car navigation system, showing cables, antennas, microphone, and tools.

4. SETUP AND INSTALLATION

4.1 Pre-Installation Checklist

- Ensure the vehicle's ignition is off and the battery is disconnected.
- Confirm compatibility with your vehicle's dashboard and wiring harness.
- Gather all necessary tools for installation.

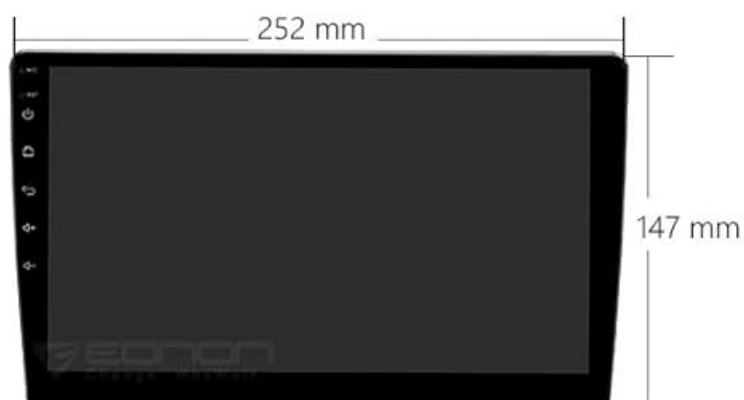### 4.2 Installation Dimensions

The unit has the following dimensions:

- **Panel Size:** 252 mm (Width) x 147 mm (Height)
- **Installation Size:** 178 mm (Width) x 125 mm (Length) x 100 mm (Height)

パネルサイズ

252（幅）×147（高さ）mm

取付サイズ

125（幅）×178（長さ）×100（高さ）mm

252 mm

147 mm

125 mm

178 mm

100 mm

ディスプレイの分解手順

1. ディスプレイの背面にある2つのクリップ(A&B)を　　2. ディスプレイを取り外します。
両側に引きます。

3. クリップを中央に向けて押し、ケーブルを外します。　　4. 分解は完了です。

Image: Diagram showing the panel size, installation size, and steps for disassembling the display from the main unit.

4.3 Wiring Diagram

Refer to the detailed wiring diagram for proper connection of all components. Incorrect wiring can cause damage to the unit or vehicle.

1. WiFiアップグレード端子	14. 前左スピーカー（白）＋	27. AMP
2. バックカメラ入力	15. ヘッドライト信号コード	28. ANT
3. SWC2	16. 前右スピーカー（灰色）—	29. USBポート
4. ACC	17. 12Vバッテリー電源コード	30. USBポート
5. GND	18. 後左スピーカー（緑）—	31. 外付けマイク
6. 後右スピーカー(紫)+	19. アースコード	32. AUXオーディオ入力(右)
7. ブレーキ信号用コード	20. RRオーディオ出力	33. AUXオーディオ入力(左)
8. SWC1	21. RLオーディオ出力	34. ビデオ入力
9. リバース信号用コード	22. FRオーディオ出力	35. DR-V 入力
10. 後左スピーカー(緑)＋	23. FLオーディオ出力	36. GPSアンテナ
11. 前左スピーカー(白)-	24. サブウーファー出力	
12. 前右スピーカー(灰色)+	25. ビデオ出力1	
13. 後右スピーカー(紫)-	26. ビデオ出力2	

付属品

1	2	3	4
GPSアンテナ×1 (3m)	電源ケーブル×1	AVケーブル×1	AVケーブル×1

5	6	7	8
マイク×1(3m)	USBケーブル×1(1m)	USBケーブル×1(1m)	Wi-Fiアンテナ ×1 (1.5m)

9	10	11	12
15Aヒューズ×1	分解ツールx1	取付用ネジ×4	説明書×1

Image: Comprehensive wiring diagram illustrating connections for power, speakers, antennas, USB, and other input/output ports.

Key Connections:

- **Power Cable:** Connect to vehicle's power supply (DC 12V).
- **GPS Antenna:** Mount in a location with a clear view of the sky.
- **Wi-Fi Antenna:** Connect for wireless network access.
- **USB Cables:** For connecting USB devices.
- **External Microphone:** For improved call quality.
- **RCA Outputs:** For connecting external displays or amplifiers.
- **CAM IN:** For connecting a rearview camera (sold separately).

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

- **Power On/Off:** The unit powers on with the vehicle's ignition.
- **Touchscreen:** Navigate the interface using the 10.1-inch IPS full touch screen.
- **Button Backlight:** Customize the 7-color button backlight to match your vehicle's interior.
- **Clock Display:** The unit features a built-in clock display function.
- **Power Status Memory:** The system remembers its last state when powered off.

5.2 Android 10 System

The unit runs on Android 10, offering a familiar smartphone-like experience. You can install various

applications from the app store.

Android 10

最新のAndroid 10搭載で、より使いやすくなりました。
たくさんのアプリを安心してインストールすることができます。
より速い起動スピード、最速のレスポンス、そしてスムーズな
ユーザーエクスペリエンスをお楽しみください。

CPU: MTK 8227L 1.2GHz ARM A7 4コア
RAM: 2GB
ROM: 16GB
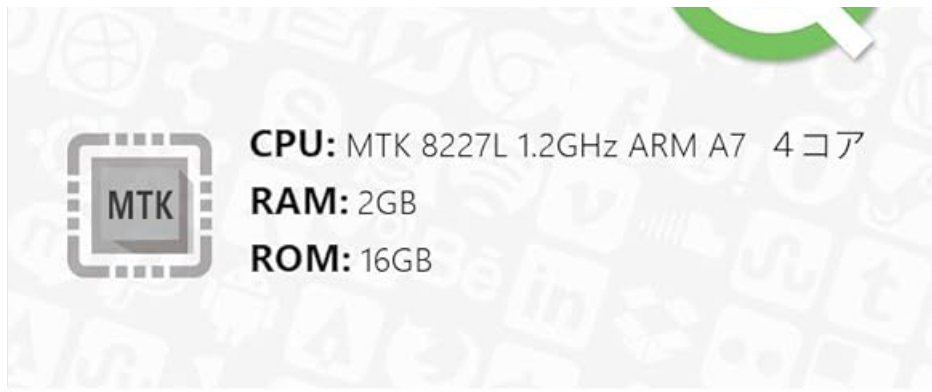
Image: Screenshot of the Android 10 interface on the Eonon GA2187J, highlighting key features like CPU, RAM, and ROM specifications.

5.3 Navigation

The unit comes with built-in GPS navigation. You can use pre-installed map applications or download others from the app store. Online maps require an internet connection.

Image: The Eonon GA2187J display showing a navigation map on one side and a media player on the other, demonstrating multi-window functionality.

5.4 Connectivity

- **Bluetooth 4.0:**

    - Pairing Password: **5802**
    - Device Name: **EONON**
    - Supports hands-free calling, phonebook synchronization, and Bluetooth music playback.
    - Features a built-in microphone and supports an external microphone for clearer calls.

- **Wi-Fi (2.4G):** Connect to available Wi-Fi networks for internet access, app downloads, and online

services.

- **4G Dongle Support:** The unit supports an external 4G dongle (sold separately) for mobile internet connectivity.
- **iPhone Connection (PhoneLink):** Connect your iPhone for integrated features.
- **Android Smartphone Connection:** For Android Auto functionality, a CarPlay USB dongle (EONON A0585, sold separately) may be required.
- **MirrorLink:** Supports screen mirroring from compatible smartphones.

5.5 Multimedia Playback

- **USB** / **MicroSD:** Supports USB flash drives and MicroSD cards up to 64GB.
- **Video Formats:** AVI, MKV, MP4, WMV, RMVB, MPG, and other Android video formats. Supports network streaming and 1080p video playback.
- **Audio Formats:** MP3, WMA, WAV, AC3, OGG, FLAC, and other audio formats. Supports network audio playback.
- **Image Formats:** JPEG, BMP, PNG, TIFF.
- **Radio Tuner:** Built-in radio tuner with 30 preset stations (FM18, AM12).

5.6 Advanced Features

- **Multi-Window Display:** Split the screen to display two applications simultaneously.
- **RCA Full Screen Share:** Output video from any mode to headrest monitors or flip-down monitors.
- **Steering Wheel Control:** Compatible with existing steering wheel controls for convenient operation.
- **DSP (Digital Sound Field Processing):** Enhances audio quality with a 30-band graphic equalizer and optimal sound stage selection.
- **OBD2 Support:** Compatible with EONON V0056 OBD2 dongle (sold separately) to display vehicle data.
- **Backup Camera Linkage:** Automatically switches to the backup camera view when reversing (camera sold separately, EONON A0119N A0121N A0130N compatible).
- **TV Viewing:** Supports external TV tuners (EONON V003S V0050, sold separately).

車内のサウンドをより美しく

DSP（Digital Sound Field Processing）はフルデジタル処理チップと
強力な56ビットの倍精度モードを備えているため、あらゆる角度から
音声信号を調整することができます。最大出力4 x 45 Wで
よりワイドでリアルなサウンドを実現。

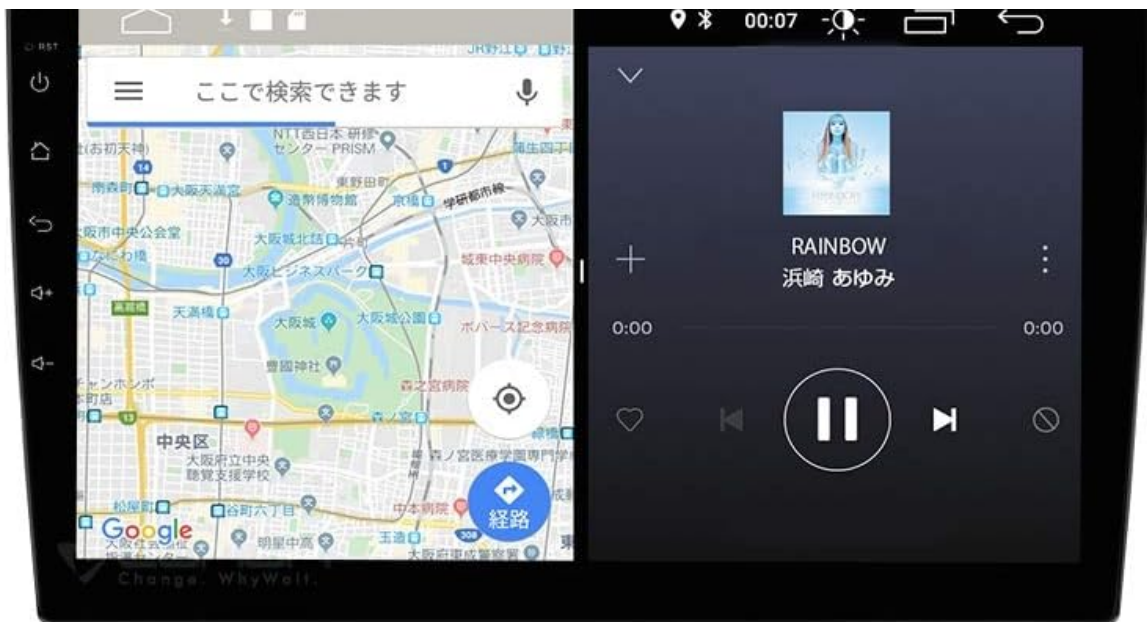30バンドグラフィックイコライザー

最適な音場の選択

Image: Visual representation of iPhone connectivity, Digital Sound Field Processing (DSP), and the 30-band graphic equalizer interface.

マルチウインドウ表示

画面を左右に分割して表示することができます。
2つのアプリの同時使用が可能。

RCAで全画面シェア

全てのモードの映像や画面表示をヘッドレストモニターや
フリップダウンモニターなどの外部モニターに出力、
後部座席でも映像を楽しめます。

Image: The Eonon GA2187J display demonstrating multi-window functionality with navigation and media player, and an example of RCA full screen sharing to a rear monitor.

カーナビ

GPSナビゲーション機能は、オンライン地図、
オフライン地図あるいは地図カードによって、
簡単に利用できます。たくさんの地図アプリに
対応しています。例えば、Google Mapsなどの

Wi-Fi/4G対応

スマートフォンでWi-Fiスポットを作成するか、
または4G dongleを購入してください。
インターネットへのアクセスにはたくさんの
方法があります。そして、アプリをダウンロード

すべてのナビゲーションアプリを迅速に実行できます。
そして最新の道路情報と簡潔な道順を提供します。

&インストールすれば、音楽や動画を手軽に
お楽しみ頂けます。

テレビ視聴可能
(別売り)

外付け地デジチューナーを取り付ければ、
テレビを視聴することができます。
（EONON V0035 V0050対応）

OBD2対応可
(Eonon V0056 OBD2別売り)

BluetoothでEONON V0056に対応、
Torqueアプリで使用できます。エンジン回転数、
車速、電圧、水温など車のパフォーマンスに
関する情報を確認できます。

カーオートプレイ
USBドングル対応可
（Eonon A0585別売り）

USBドングルをスマートフォンとカーオーディオに
接続するだけで、カーオートプレイシステムを
車内で使用できます。運転中によりスマートで、
より安全であなたのスマホを使用できます。

バックカメラ連動
(別売り)

バックギアを入れると、自動でバックカメラ画面に
切り替わります。バックの時も安心、安全。
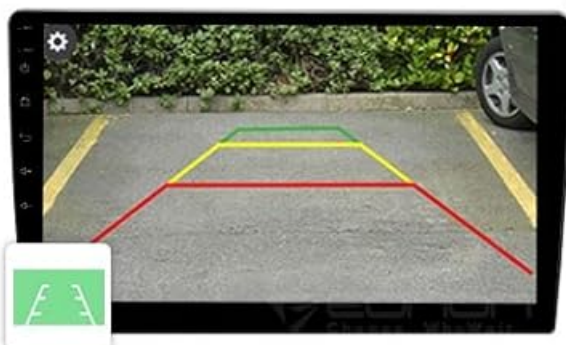（EONON A0119N A0125N A0130N対応）

Image: Overview of various connectivity options and optional features including navigation, Wi-Fi/4G, TV viewing, OBD2, CarPlay, and backup camera integration.

6. MAINTENANCE

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Do not spray liquid directly onto the screen.

- **General Cleaning:** Keep the unit free from dust and debris. Use a soft brush or compressed air to clean vents and ports.

- **Software Updates:** Periodically check for software updates to ensure optimal performance and access to new features. Updates may be available through the system settings or the manufacturer's website.

- **Avoid Harsh Chemicals:** Do not use strong detergents, solvents, or abrasive cleaners, as they can damage the unit's finish or screen.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	Incorrect power connection, blown fuse, vehicle battery issue.	Check power cable connections. Inspect the 15A fuse. Ensure vehicle battery is charged. Consult a professional if issues persist.
No sound.	Volume too low, mute activated, incorrect speaker wiring.	Increase volume. Check if mute is active. Verify speaker connections according to the wiring diagram.
GPS signal lost or inaccurate.	GPS antenna not properly installed or obstructed.	Ensure GPS antenna is mounted in a clear, unobstructed location. Check antenna connection.
Bluetooth pairing failure.	Incorrect pairing password, device not in pairing mode, interference.	Ensure correct password (5802). Put your device in pairing mode. Try pairing in a different location to avoid interference.
Touchscreen unresponsive.	Temporary software glitch, screen damage.	Restart the unit. If the problem persists, contact support.

For issues not listed here, or if troubleshooting steps do not resolve the problem, please contact customer support.

8. SPECIFICATIONS

Feature	Detail
Operating System	Android 10

Feature	Detail
CPU	MTK 8227L 1.2GHz ARM A7 Quad-Core
RAM	2GB
Internal Memory	16GB
Display Size	10.1 inches
Display Resolution	1024x600
Display Type	IPS Full Touch Capacitive Screen
Bluetooth Version	4.0
Wi-Fi	2.4Ghz
USB/MicroSD Support	Up to 64GB
Operating Voltage	DC 12V
Max Operating Current	≤10A
Unit Weight	1.95 kg
Gross Weight	2.60 kg
Installation Dimensions (WxLxH)	178 x 125 x 100 mm
Panel Dimensions (WxH)	252 x 147 mm
Supported Languages	85 types (including Japanese, English, Spanish, French, German, Portuguese, Italian, Russian, Turkish, Norwegian)

Note: Specifications are subject to change without prior notice due to product improvements.

9. WARRANTY AND SUPPORT

9.1 Manufacturer Warranty

This product comes with a **1-year manufacturer's warranty**. To claim warranty service, the serial number displayed on the outer packaging (which cannot be reissued) is required. Initial defects are handled according to the manufacturer's warranty policy.
For detailed warranty information, please refer to the official Eonon website:

Eonon Warranty Information

9.2 Technical Support

Please note that direct support for installation or usage methods is not provided by the manufacturer. It is highly recommended to consult a professional for installation in your vehicle.
For general inquiries or product information, please visit the Eonon official website or contact their customer service channels if available.

Related Documents - GA2187J

	Eonon VWA12S User Manual: Features, Installation, and Operation Guide Comprehensive user manual for the Eonon VWA12S car infotainment system. Covers product overview, features like Wireless CarPlay and Android Auto, GPS navigation, Bluetooth, settings, and troubleshooting for your Eonon VWA12S car stereo.
	Eonon Q49PRO User Manual User manual for the Eonon Q49PRO car stereo, covering installation, features, settings, and troubleshooting.
	Eonon P3 User Manual: Installation, Features, and Connectivity Comprehensive user manual for the Eonon P3 car multimedia player. Learn about installation, product features, connectivity options like Apple CarPlay and Android Auto, screen mirroring, and find solutions in the FAQ section.
	Eonon Car Multimedia System User Manual Comprehensive user manual for the Eonon car multimedia system, detailing installation, product overview, features like CarPlay, Android Auto, Bluetooth phone calls and music, USB/SD playback, screen mirroring, FM transmit, settings, specifications, and frequently asked questions.
	BMW 3 Series E46 Installation Manual - Eonon Head Unit Step-by-step installation guide for an Eonon head unit in a BMW 3 Series 1999-2004 (E46). Covers removal of factory components and installation of the new unit.
	BMW 3 Series (E90/E91/E92/E93) 2005-2011 Eonon Head Unit Installation Manual Comprehensive installation manual for Eonon car stereo head units in BMW 3 Series (E90, E91, E92, E93) models manufactured between 2005 and 2011. This guide provides detailed, step-by-step instructions for removing the factory radio and air conditioning controls, wiring the new unit, and fitting it into the dashboard. It covers essential steps such as checking console compatibility, using specialized tools, connecting harnesses, and testing features.