Introduction

- Design and specifications are subject to change without notice for improvement.

To Ensure Safe Use, Always Follow These Precautions

- The installation of this product requires specialized skills and experience. We recommend that you have the product installed by the store that you purchased it from.
- Before you use this product, be sure to carefully read this installation manual and the separate user’s manual so that you can use the product correctly. Alpine Electronics bears no responsibility for problems that arise as a result of failure to follow the instructions in the manuals.
- This manual includes a number of symbols that are intended to help you use the product safely, to prevent harm to you and others, and to protect against damage to property. These symbols and their meanings are listed below. Make sure you fully understand these symbols before you begin reading the main text.

Explanations of Injury and Damage That May Result from Incorrect Use

| Warning | Ignoring the content marked by this indication and using the product incorrectly is expected to lead to death or serious injury. |
| Caution | Ignoring the content marked by this indication and using the product incorrectly is only expected to lead to injury or property damage. |
Types of Precautions

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forbidden</td>
<td>Indicates actions that are forbidden (must not be performed)</td>
<td>Mandatory</td>
<td>Indicates actions that are mandatory (must be performed)</td>
</tr>
<tr>
<td>Forbidden</td>
<td>Indicates that disassembly is forbidden.</td>
<td>!</td>
<td>Marks content that should receive your full attention.</td>
</tr>
</tbody>
</table>

⚠️ Warning

Do not disassemble or modify the product. Doing so could lead to an accident, fire, or electric shock.

Forbidden

Store screws and other small objects where small children cannot reach them. If one of these small objects is swallowed, consult with a doctor immediately.

⚠️

When replacing fuses, be sure to use fuses with the specified current rating. Failing to do so could lead to an accident or fire.

Forbidden Mandatory

Only connect the product to a 12 VDC negative ground car. Failing to do so could lead to an accident or fire.

⚠️ Mandatory

Before you begin wiring, remove the ground wire from the negative terminal of the battery. Failing to do so could lead to electric shock or injury.

⚠️

Do not cut the insulation on a cord and take power from another device. Doing so could lead to fire or electric shock.

Forbidden

Do not install the product in a location where it will obstruct the driver’s forward view; interfere with the operation of the steering wheel, gearshift, or the like; or pose a threat to passengers. Doing so could lead to an accident or injury.

Forbidden

When making a hole in the vehicle body, be careful to avoid damaging pipes, the fuel tank, electrical wiring, and the like. This kind of damage could lead to an accident or fire.

⚠️
When installing and grounding the product, do not use any of the bolts or nuts of the steering wheel, brakes, fuel tank, or the like. Doing so could make the brakes stop working or lead to fire.

Do not install the product near the passenger-side airbag. Doing so could interfere with the operation of the airbag and lead to an accident or injury.

Bundle cords so that they don’t interfere with driving. Wrapping cords around the steering wheel, gearshift, brake pedal, or the like, could lead to an accident or damage equipment.

Connect the product properly according to the instructions. Failing to do so could lead to fire or an accident.

Do not sandwich cords between the seat railing or allow them to touch protrusions. Resulting breaks or shorts could lead to electric shock or fire.

Do not block vents or heat sinks. Doing so could lead to fire or damage equipment.

Use the accessories according to the instructions, and attach them securely. Failing to do so could lead to an accident or damage equipment.

Do not install the product where it may be exposed to water or in a place with high levels of humidity or dust. Doing so could lead to fire or damage equipment.

The installation and wiring of this product requires specialized skills and experience. Have the product installed and wired by the store that you purchased it from.
## Accessory List

### Head Unit Box Parts (X009)

<table>
<thead>
<tr>
<th>Item</th>
<th>Image</th>
<th>Item</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner’s Manual Disc</td>
<td><img src="image" alt="owner_manual" /></td>
<td>X009 Head Unit</td>
<td><img src="image" alt="x009_head_unit" /></td>
</tr>
<tr>
<td>AUX/Pre Out Harness</td>
<td><img src="image" alt="aux_pre_out_harness" /></td>
<td>GPS Antenna</td>
<td><img src="image" alt="gps_antenna" /></td>
</tr>
<tr>
<td>8mm x 8 Screws</td>
<td><img src="image" alt="8mm_x_8_screws" /></td>
<td>Quick Reference Guides</td>
<td><img src="image" alt="quick_reference_guides" /></td>
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<tr>
<td>QRG Audio</td>
<td><img src="image" alt="qr_audio" /></td>
<td>QRG Navigation</td>
<td><img src="image" alt="qr_navigation" /></td>
</tr>
<tr>
<td>iDatalink Maestro Box Parts</td>
<td><img src="image" alt="idatalink_mastros_box_parts" /></td>
<td>Alpine Registration Card</td>
<td><img src="image" alt="alpine_registration_card" /></td>
</tr>
<tr>
<td>QRG Navigation</td>
<td><img src="image" alt="qr_navigation" /></td>
<td>NAVTEQ Registration Card</td>
<td><img src="image" alt="navteq_registration_card" /></td>
</tr>
</tbody>
</table>

### iDatalink Maestro Box Parts (ALP-MRR/ALP-HRN-GM)

<table>
<thead>
<tr>
<th>Item</th>
<th>Image</th>
<th>Item</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Harness</td>
<td><img src="image" alt="main_harness" /></td>
<td>Navigation Adapter</td>
<td><img src="image" alt="navigation_adapter" /></td>
</tr>
<tr>
<td>Rear Seat A/V Harness</td>
<td><img src="image" alt="rear_seat_a_v_harness" /></td>
<td>Chime Speaker</td>
<td><img src="image" alt="chime_speaker" /></td>
</tr>
<tr>
<td>Vehicle Camera Harness</td>
<td><img src="image" alt="vehicle_camera_harness" /></td>
<td>USB to Mini USB Cable</td>
<td><img src="image" alt="usb_to_mini_usb_cable" /></td>
</tr>
<tr>
<td>Bose Adapter Harnesses</td>
<td><img src="image" alt="bose_adapter_harnesses" /></td>
<td>iDatalink Maestro Module</td>
<td><img src="image" alt="idatalink_mastros_module" /></td>
</tr>
</tbody>
</table>
# Installation Kit Parts (G-KTX-009-GM)

<table>
<thead>
<tr>
<th>X009-GM Key Panel</th>
<th>Key Harnesses</th>
<th>Side Mounting Brackets</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="X009-GM Key Panel" /></td>
<td><img src="image2" alt="Key Harnesses" /></td>
<td><img src="image3" alt="Side Mounting Brackets" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Screws x 12</th>
<th>Rear Support Bracket</th>
<th>8mm Screw x1</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Screws x 12" /></td>
<td><img src="image5" alt="Rear Support Bracket" /></td>
<td><img src="image6" alt="8mm Screw x1" /></td>
</tr>
</tbody>
</table>

## Cutout Template

Optional 3rd-Party Parts (Not Included)

<table>
<thead>
<tr>
<th>PAC GMRVD2(^1)</th>
<th>RCA A/V to 3.5 mm Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7" alt="PAC GMRVD2" /></td>
<td><img src="image8" alt="RCA A/V to 3.5 mm Adapter" /></td>
</tr>
</tbody>
</table>

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\(^1\) Needed with 2012-2014 Navi-equipped models.

\(^2\) Allows front panel A/V input to be used when vehicle is equipped with factory rear seat entertainment.

Note: To use this option, aux-3 input must be switched from iPod video to aux-3 in the “aux-3 source select” menu.
Component Locations

Maestro/Speaker Location

GPS Antenna

Chime Speaker

Head Unit

Top View

GPS Antenna Location

Maestro/Speaker Location

Front side center console driver side view

- 10-pin Green Connector
- 3.5 mm Mini plug
- 10-pin Black Connector

- 4-pin Black Connector
- 4-pin Data Connector

- 3-pin Black Connector
- 4-pin Data Connector

- Blue Power Antenna (Not used)
- Blue/White Amp Turn-on

- HDMI Input (Purple/Red, Green/White, Gray/Red, White/White)

- Front Rear A/V Input
- Center Out
- Sub Out

- Rear Seat A/V Harness

- X009 Power Harness

- X009 Head Unit

- X009 Camera Harness

- Vehicle Camera Harness

- To ODB II Connector

- Connect if factory-equipped using RCA Y-cable to front RCA outputs

- Connect if factory-equipped using RCA Y-cable to front RCA outputs

- Use only with aftermarket amplifiers

- Bose adapter harness on vehicle side.

- If Bose is equipped, connect Bose adapter harness on vehicle side.

- GPS Antenna

- To SXM

- To Overhead Screen

- Subwoofer

- Key Panel

- To Vehicle Connectors

- Main Harness

- 4-pin Data Connector

- To ODB II Connector
X009-GM System Wiring for 2012-14 Navigation Equipped Vehicles

To retain a pre-existing factory rearview camera
• Locate the 20-pin radio plug, connect the PINK or WHITE wire located at pin 5 to the center of yellow conductor of a yellow RCA, connect the LIGHT BLUE or BARE wire located at pin 15 to the shield of the yellow RCA.

![Diagram of X009-GM System Wiring for 2012-14 Navigation Equipped Vehicles](image-url)
Factory unit disassembly process

1. Use a panel removal tool to carefully unsnap the trim bezel around the radio and HVAC controls.

2. Extract (8) 9/32” – 7mm screws securing the radio, HVAC and cigarette lighter panel. Disconnect and remove in the order shown.

3. Remove and disconnect by order number shown.

4. Remove driver side center console panel by unsnapping it.

5. Move the factory wire harness to the back of the dash by accessing through the drivers side center console area.
Steps to Get Started

1 INSTALL THE WEBLINK PLUG-IN
Go to: idatalinkmaestro.com/plugin and follow the installation steps.

If the plugin is already installed, the caution, “The plugin is already installed” appears. Please skip to step 2.

2 REGISTER A WEBLINK ACCOUNT
Go to: idatalinkmaestro.com/register and complete the registration process.

A confirmation email will be sent to you requiring validation. For existing customers, click log in.

3 CONNECT YOUR MAESTRO MODULE
Use the included USB cable to connect your Maestro module to your PC.

4 LOG INTO WEBLINK
Go to: idatalinkmaestro.com/login. Enter your username and password, then click OK.

5 PROGRAM YOUR MODULE
Follow the programming steps for your vehicle.

6 COMPLETE INSTALLATION
Proceed to the next page to complete installation.
Installation Instructions

1. Attach the Maestro module to the X009 main harness.

2. Attach the chime speaker to the side of the center console.

3. Insert the radio side of the main harness from behind the dash to the radio cavity.

4. Connect factory harness to the X009 main harness and secure it.

5. Place the GPS antenna on the top dash area as illustrated and feed the cable in between the A/C vents. Use the supplied magnetic base for the best signal strength.

6. Access the OBDII connector located under the driver side dashboard. Connect the BROWN/RED wire from the Alpine harness to the TAN/BLACK wire located at pin 6 of the OBDII connector. Connect the BROWN/YELLOW wire from the Alpine harness to the TAN wire located at pin 14 of the OBDII connector.

7. Connect the X009 main harness to the headunit and test all functions before snapping the headunit bezel into the dashboard.
Exploded-View Diagram

Parts assembly diagram for the X009-GM kit.

- Factory dash bezel
- Left bracket
- Left spacer
- Rear support bracket
- X009 AVN Unit
- Right bracket
- Right spacer
- Factory HVAC controller (not supplied).
  Requires trimming for proper fit, refer to page 15.
- Factory cigarette lighter panel (not supplied).
  Needs trimming for proper fit, refer to page 16.
Bracket Assembly Procedure

Attach pre-assembled left and right bracket assemblies to the X009 unit using 4 supplied M5x8 bolts on each side.

Bracket and spacer are pre-assembled in the X009-GM package.

Left bracket assembly

Right bracket assembly

Rear support bracket

Clip
Wiring Installation Procedure

Connect and route wires 1 and 2 as shown in the diagrams below.

Bottom View

Rear View

To X009 key panel connector

Front View

Side View

Pass through
Trimming procedure for factory HVAC panel

The factory HVAC control needs to be trimmed to fit properly in the kit. Trim the top edges of the HVAC control as shown in the diagram below.

The included template can be used as a guide for proper trimming.
Trimming procedure for factory cigarette lighter panel

The factory cigarette lighter panel needs to be trimmed to fit properly in the kit. Trim the side and bottom edges of the cigarette lighter panel as shown in the diagram below.
Installing the X009-GM assembly

Attach the X009-GM assembly into the dash using 8 provided 4x12mm screws, 4 on each side.

- Screw is close to the Monitor. Don’t damage the Monitor.
- Provided screws
- X009 ASSY
- Instrumental panel

Attach the assembly to the vehicle’s dashboard at these 8 points using the provided screws.
Re-installing the factory HVAC controls

Connect the factory HVAC harnesses, and install the factory HVAC controller using two of the supplied 4x12mm screws.

Factory HVAC controller (not supplied)

Included 4x12mm screws
Re-install the factory cigarette lighter panel

Connect the factory harnesses to the factory cigarette lighter panel, and attach it to the kit using two of the supplied 4x12mm screws.
Install the switch panel assembly

Connect Wire 1 and Wire 2 to the switch panel assembly, and push the cables into the dash as the panel is installed. Snap the bezel into place to complete the installation.

Switch panel assembly

Push wires into inst panel.

Clips on rear side (6points)