**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>Forbidden</th>
<th>Indicates actions that are forbidden (must not be performed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandatory</td>
<td>Indicates actions that are mandatory (must be performed)</td>
</tr>
<tr>
<td>Warning</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.

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.

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

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.

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.

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.

Forbidden

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.

Forbidden

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.

Caution

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

Forbidden

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.

Toxic

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

Toxic

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

Forbidden

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.

Forbidden

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.

Toxic
## Accessory List

### Head Unit Box Parts (X009)

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Image</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner’s Manual Disc</td>
<td><img src="owner_manual_disc.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>X009 Head Unit</td>
<td><img src="head_unit.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>X009 Camera Harness</td>
<td><img src="camera_harness.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>AUX/Pre Out Harness</td>
<td><img src="aux_pre_out_harness.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>GPS Antenna</td>
<td><img src="gps_antenna.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>USB Extension Cable</td>
<td><img src="usb_extension_cable.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td>8mm x 8 Screws</td>
<td><img src="8mm_8_screws.png" alt="Image" /></td>
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</tr>
<tr>
<td>Quick Reference Guides</td>
<td><img src="quick_reference_guides.png" alt="Image" /></td>
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</tr>
<tr>
<td>Registration Cards</td>
<td><img src="registration_cards.png" alt="Image" /></td>
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<tr>
<td>QRG Audio</td>
<td><img src="qr_audio.png" alt="Image" /></td>
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<tr>
<td>QRG Navigation</td>
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<td>Alpine Registration Card</td>
<td><img src="alpine_registration_card.png" alt="Image" /></td>
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<tr>
<td>NAVTEQ Registration Card</td>
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</table>

### iDatalink Maestro Box Parts (ALP-MRR V2.0/ALP-HRN-RAM V2.0)

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Image</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Harness</td>
<td><img src="main_harness.png" alt="Image" /></td>
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<tr>
<td>Antenna Adapter</td>
<td><img src="antenna_adapter.png" alt="Image" /></td>
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<tr>
<td>OEM USB Adapter</td>
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<tr>
<td>SAT Radio Antenna Adapter</td>
<td><img src="sat_radio_antenna_adapter.png" alt="Image" /></td>
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<tr>
<td>Maestro Module USB Flashing Cable</td>
<td><img src="maestro_module_usb_flashing_cable.png" alt="Image" /></td>
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</tr>
<tr>
<td>iDatalink Maestro Module</td>
<td><img src="idatalink_maestro_module.png" alt="Image" /></td>
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</tr>
<tr>
<td>USB/AUX PCB</td>
<td><img src="usb_aux_pcb.png" alt="Image" /></td>
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</tbody>
</table>
### Installation Kit Parts (G-KTX-009-RAM)

<table>
<thead>
<tr>
<th>X009-RAM Radio Dash Bezel</th>
<th>Key Harness</th>
<th>Headunit Mounting Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Bezel Image" /></td>
<td><img src="image2" alt="Harness Image" /></td>
<td><img src="image3" alt="Mounting Plate Image" /></td>
</tr>
<tr>
<td>Screws x 8</td>
<td>Side Mounting Brackets</td>
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<tr>
<td><img src="image4" alt="Screws Image" /></td>
<td><img src="image5" alt="Bracket Image" /></td>
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</tbody>
</table>
Component Locations

Maestro Module Location

GPS Antenna Location

BT Microphone Location

GPS Antenna Location
Factory Radio Removal Process

1. Remove the rubber screw cover from the top of the radio panel and extract 2x #20 Torx screws.
2. Extract 1x 9/32" – 7mm screw from the right side pocket. (Not required on base models)
3. Pull the entire radio panel out.
4. Extract 4x 9/32" – 7mm screws from the radio and remove it.
5. Extract 13x Phillips screws from the radio panel and remove the radio bezel.
6. Remove 4x Phillips screws from the HVAC control and mount the HVAC on to the new X009-RAM Radio/Dash Bezel.
Programing the iDataLink Maestro Module

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

Review the System Requirements before installing.

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.

For existing customers, click log in.

6 Once Programing is complete “FLASHING COMPLETE” will be displayed.
Proceed to the next page to complete installation.
Installation Instructions

1. Using a cutting tool cut the bottom section of the metal bracket (as shown in the shaded area).

2. Mount the brackets to the sides of the head unit as shown, using flathead Phillips screws supplied.

3. Install the head unit mounting plate using the 4x factory 9/32” – 7mm screws.

4. Trim the shaded area using a cutting tool.

5. Trim the dashed area on the factory HVAC control unit and mount it on to the X009-RAM Radio/Dash bezel.

6. Attach the X009-RAM Radio/Dash bezel to the dash factory trim.

7. Connect the Maestro module to the X009-RAM main harness.
Installation Instructions

8 Connect the main harness and adapters to the factory harness.

9 Place the GPS antenna in between the vent duct and the top of the dash. Use the supplied metal base for the best signal strength.
Exploded-View Diagram

- Factory Dash Trim
- X009 Head Unit (Not included)
- Factory HVAC Control Unit (Not included)
- Side Mounting Bracket
- Dash board

X009-RAM Radio/Dash Bezel
USB/AUX PCB Replacement Process

1. Remove the cup holder cover by pulling straight up.

2. Detach the fabric by pulling the vinyl tubing and lift the foam to access the bottom module tabs.

3. Remove the USB/AUX module by pressing the 2 lock tabs on the top and 2 lock tabs on the bottom of the module using a flat heat screwdriver.

4. Extract the 2x Phillips screws, remove the plastic base and illumination port cover.

5. Mount the new PCB board using the factory screws and attach the illumination port cover.

6. Connect and snap back in place.
KTX-RAM Wiring Diagram

To Vehicle Connectors

- 10-pin Black Connector
- 16-pin Black Connector

iDataLink MAESTRO Module

Main Harness

USB Extension Cable

HDMI Input

GPS Antenna

To SX (NOT include)

X009 Head Unit

To X009-GM Key Panel

X009 Camera Harness

3.5mm Aux 3 /iPod Video

Camera Input

Back-up Camera In

3.5mm iDataLink Audio