USA SPEC BT45-NIS

USA·SPEC

Instruction Manual

USA SPEC BT45-NIS Bluetooth Phone, Music & AUX Input Kit

Model: BT45-NIS

1. INTRODUCTION AND OVERVIEW

The USA SPEC BT45-NIS is a Bluetooth phone, music, and AUX input kit designed for select 1999-2014 Nissan and Infiniti models. This kit seamlessly integrates Bluetooth capabilities into your vehicle's existing audio system, enabling hands-free phone calls, wireless music streaming, and auxiliary audio input. It also features an onboard 2.1 Amp USB charging port to keep your devices powered.

2. SAFETY INFORMATION

Important: Always prioritize safety during installation and operation. Failure to follow these guidelines may result in damage to the product, vehicle, or personal injury.

- **Battery Handling:** Follow all standard battery handling instructions. Disconnect the vehicle's battery before beginning installation to prevent electrical shorts and damage.
- **Environmental Conditions:** Avoid using the device in extreme temperatures or highly humid conditions.
- **Compatibility:** Use only with compatible devices and vehicle models as specified in this manual to prevent interference or malfunction.
- **Professional Installation:** If you are not comfortable with automotive electrical systems or dashboard disassembly, it is recommended to seek professional installation.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- USA SPEC BT45-NIS Module
- Vehicle-specific Wiring Harnesses
- External Microphone
- USB Charging Port (integrated into module)
- Auxiliary Input Port (integrated into module)

Figure 3.1: Complete USA SPEC BT45-NIS kit showing the main module, wiring harnesses, and external microphone.

4. KEY FEATURES

- **Bluetooth Connectivity:** Enables wireless audio streaming and hands-free calling.
- **Integrated Controls:** Allows changing tracks and answering/rejecting calls using existing radio buttons or steering wheel controls.
- **Auxiliary Audio Input:** Provides a 3.5mm stereo input for connecting non-Bluetooth devices.
- **USB Charging Port:** Features a 2.1 Amp USB port for charging mobile devices.
- **Satellite Radio Compatibility:** Works seamlessly with vehicles equipped with or without satellite radio.
- **Crystal Clear Audio:** Utilizes noise cancellation DSP hardware and CVC (Clear Voice Capture) software for enhanced call quality.
- **Music Information Display:** Displays song title, artist, and album name on compatible radios (Note: Only supported by radios with a SAT or XM button or RADIO and CAT/CH buttons).

5. COMPATIBILITY

The BT45-NIS kit is designed for select Nissan and Infiniti models manufactured between 1999 and 2014. For a detailed list of compatible vehicles, refer to the official application guide provided by USA SPEC. Please note the following specific compatibility detail:

- **2007-2012 Altima with Navigation:** These models must use the BT45-INFI package, not the BT45-NIS.

6. SETUP AND INSTALLATION

Installation typically involves accessing the back of your vehicle's factory radio. The process may vary slightly depending on your specific vehicle model. Always refer to your vehicle's service manual for detailed instructions on dashboard disassembly.

6.1. Preparation

1. **Gather Tools:** You will typically need basic automotive tools, including screwdrivers (Phillips, flathead, and potentially Torx bits), plastic trim removal tools, and a 10mm wrench for battery terminals.

2. **Disconnect Battery:** For safety, disconnect the negative terminal of your vehicle's battery before starting any electrical work.

3. **Access Radio:** Carefully remove the necessary dashboard trim panels and components to gain access to the rear of your factory radio.

6.2. Module and Harness Connection

Figure 6.1: Close-up of the BT45-NIS module showing MIC, USB, and AUX ports.

Figure 6.2: The various wiring harnesses included with the BT45-NIS kit for vehicle integration.

4. **Connect Harnesses:** Locate the appropriate connectors on the back of your factory radio. The BT45-NIS harnesses are designed to plug in-line with your vehicle's existing wiring. Disconnect the factory harness from the radio and connect it to one end of the BT45-NIS harness. Then, connect the other end of the BT45-NIS harness to the radio. Ensure all connections are secure.

5. **Ground Wire:** Connect the ground wire from the BT45-NIS harness to a suitable metal chassis ground point in the vehicle. Ensure a clean, secure connection.

6. **Connect to Module:** Plug the main harness from the vehicle into the BT45-NIS module.

6.3. Microphone Installation

7. **Mount Microphone:** Choose a discreet location for the external microphone that is close to the driver's head for optimal voice pickup. Common locations include the A-pillar, sun visor, or steering column. Use the included clip or adhesive to secure it.

8. **Route Microphone Cable:** Carefully route the microphone cable behind trim panels to the location of the BT45-NIS module, ensuring it does not interfere with airbags or other vehicle components.

9. **Connect Microphone:** Plug the microphone's 3.5mm jack into the designated "MIC" port on the BT45-NIS module.

6.4. Final Steps

10. **Secure Module:** Find a secure, out-of-the-way location behind the dashboard to mount the BT45-NIS module. Use zip ties or Velcro to prevent it from rattling.

11. **Reconnect Battery:** Reconnect the negative terminal of your vehicle's battery.

12. **Test Functionality:** Before reassembling the dashboard, turn on your vehicle and test all functions of the BT45-NIS kit (Bluetooth pairing, music playback, phone calls, AUX input, USB charging).

13. **Reassemble Dashboard:** Once all functions are verified, carefully reassemble all removed dashboard components and trim panels.

7. OPERATING INSTRUCTIONS

7.1. Bluetooth Pairing

1. **Activate Bluetooth:** Turn on your vehicle's ignition and select the appropriate source on your factory radio (often a SAT or XM channel, or a specific CD changer input). The BT45-NIS module will enter pairing mode.

2. **Enable Device Bluetooth:** On your mobile device (smartphone, tablet), go to the Bluetooth settings and ensure Bluetooth is enabled.

3. **Select Device:** Search for available Bluetooth devices. You should see "USA SPEC" or "BT45-NIS" appear in the list. Select it to pair.

4. **Confirmation:** Once paired, your device will confirm the connection, and you may hear an audible confirmation from the vehicle's speakers. The device will typically auto-connect on subsequent vehicle startups.

7.2. Music Streaming

- **Playback:** Once paired, open your preferred music application on your mobile device and begin playback. Audio will stream through your vehicle's speakers.

- **Track Control:** Use the track forward/backward buttons on your factory radio or steering wheel controls to skip tracks.

- **Music Information Display:** On compatible radios, song title, artist, and album name will be displayed.

- **App Integration:** Stream audio from various apps such as Spotify, Apple Music, Google Maps, Waze, and YouTube.

7.3. Hands-Free Calling

- **Answering/Ending Calls:** When a call comes in, press the "Answer" or "Call" button on your radio or steering wheel (if available) to accept. Press it again to end the call.

- **Rejecting Calls:** Press and hold the "Answer" or "Call" button to reject an incoming call.

- **Caller ID:** Incoming caller numbers may be displayed on your radio screen and announced audibly.

- **Privacy Mode:** During a call, you can toggle between hands-free mode and your phone's speaker for privacy using a

button on the radio (refer to your radio's manual).

7.4. Auxiliary Input (AUX)

- **Connect Device:** Plug a 3.5mm audio cable (not included) from your non-Bluetooth audio device (e.g., MP3 player) into the "AUX" port on the BT45-NIS module.

- **Select Source:** Switch your factory radio's source to the AUX input (this may be the same input as the Bluetooth, or a separate one depending on your radio).

7.5. USB Charging

- **Charge Devices:** Connect your mobile device's USB charging cable to the "USB" port on the BT45-NIS module to charge it. This port provides 2.1 Amps of power.

8. TROUBLESHOOTING

If you encounter issues with your BT45-NIS kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No audio output / No connection	- Incorrect source selected on radio. - Loose wiring connections. - Bluetooth not paired or disconnected. - Vehicle battery recently disconnected (may require radio reset).	- Ensure the correct SAT/XM or CD changer input is selected. - Check all harness connections to the radio and module. - Re-pair your Bluetooth device. Turn off/on Bluetooth on your phone. - Disconnect vehicle battery for 5 minutes, then reconnect.
Poor audio quality / Static	- Loose connections. - Interference from other electronic devices. - Low quality audio source.	- Verify all connections are secure. - Ensure the module and wiring are not near high-voltage cables or other interference sources. - Test with a different audio source or higher quality audio files.
Microphone not working / Poor call quality	- Microphone not plugged in correctly. - Microphone placement.	- Ensure the microphone is fully inserted into the "MIC" port. - Adjust microphone position closer to the driver's mouth, away from vents or speakers.
Steering wheel controls not functioning as expected	- Vehicle specific wiring variations. - Radio model limitations.	- Confirm your vehicle and radio model are fully compatible with all control features. Some older models may have limited functionality. - Refer to the USA SPEC application guide for specific vehicle notes.

9. SPECIFICATIONS

Feature	Detail
Model Number	BT45-NIS

Feature	Detail
Product Dimensions	9.5 x 2 x 7 inches (Module dimensions may vary, this is package dimensions)
Item Weight	15.5 ounces
Connectivity Technology	Bluetooth, Auxiliary
Special Features	Built-In Microphone (external mic included), USB Charging Port (2.1A)
Power Source	Corded Electric (vehicle power)
Color	Black

10. WARRANTY AND SUPPORT

USA SPEC products are designed for reliability and performance. For specific warranty details regarding your BT45-NIS kit, please refer to the warranty card included in your product packaging or visit the official USA SPEC website. Keep your proof of purchase for warranty claims.

For technical support, installation assistance, or troubleshooting beyond what is covered in this manual, please contact USA SPEC customer service directly. Contact information can typically be found on their official website or on the product packaging.

Related Documents

	[USA-SPEC PA15-HON2 iPod Interface for Honda/Acura: Owner's Manual and Installation Guide](#) Comprehensive guide for the USA-SPEC PA15-HON2 interface, detailing how to connect and control your iPod, iPhone, or iTouch with Honda and Acura car audio systems. Covers features, modes, application compatibility, installation, and troubleshooting.

Documents - USA SPEC – BT45-NIS

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the newly engineered innovative
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Product Manual

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