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Carrozzeria/Pioneer TS-F1640S-2, UD-K301

Pioneer Carrozzeria TS-F1640S-2 16cm Separate 2-Way Speaker and UD-K301 Tweeter Attachment Kit Instruction Manual

Model: TS-F1640S-2, UD-K301

1. Introduction

This instruction manual provides comprehensive guidance for the installation and setup of the Pioneer Carrozzeria TS-F1640S-2 16cm Separate 2-Way Speaker and the dedicated UD-K301 Tweeter Attachment Kit. This kit is designed to enhance the audio experience in Suzuki Jimny and Jimny Sierra vehicles. Please read this manual thoroughly before beginning installation to ensure correct procedure and optimal performance.

2. Safety Information

Always prioritize safety during installation. Incorrect installation can lead to damage to the product, vehicle, or personal injury. If you are unsure about any step, consult a qualified professional.

- Disconnect the vehicle's battery before starting any electrical work.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not obstruct airbags or other safety features during installation.
- Use only the specified tools and components.

3. Package Contents

Verify that all components are present before beginning installation.

- Pioneer Carrozzeria TS-F1640S-2 16cm Separate 2-Way Speakers (2 units)
- Pioneer Carrozzeria UD-K301 Tweeter Attachment Kit (for Suzuki Jimny/Jimny Sierra)
- Mounting hardware and wiring harnesses
- Instruction Manual (this document)



Image: Overview of the Pioneer Carrozzeria TS-F1640S-2 speaker and UD-K301 tweeter attachment kit components.

4. Tools Required

The following tools are recommended for installation:

- Screwdrivers (Phillips and flathead)
- Wire cutters/strippers
- Pliers
- Panel removal tool (plastic pry tool)
- Measuring tape or ruler
- Electrical tape
- Drill (if new mounting holes are required)

5. Installation Guide

5.1. Tweeter Attachment Kit Preparation (UD-K301)

Prepare the tweeters and brackets before installing them in the vehicle.

1. Separate the tweeter unit from its rotary spacer.
2. Remove the tweeter from its holder.
3. Attach the non-woven fabric tape to the side of the tweeter, following the instructions in the manual.
4. Mount the tweeter into the tweeter bracket, ensuring the cable root faces upwards.
5. Attach the anti-vibration cushion to the tweeter bracket in the same position as the genuine resin cover. Curve the tip slightly before attaching.

Your browser does not support the video tag.

Video: This video demonstrates the preparation and assembly of the UD-K301 tweeter attachment kit, including separating components, applying tape, and mounting the tweeter into the bracket. It also shows how to attach the anti-vibration cushion.

5.2. Door Panel Removal

Carefully remove the vehicle's door panel to access the speaker mounting location.

1. Protect the door panel edges with masking tape to prevent scratches.
2. Remove the screws and covers securing the door panel. Typically, these are located near the door handle and armrest.
3. Using a panel removal tool, carefully pry off the door panel, starting from the bottom edge and working your way around.
4. Once the panel is loose, disconnect any electrical connectors (e.g., power window switches, door lock) and door opening wires.



Image: The door panel of a Suzuki Jimny/Jimny Sierra, highlighting the three screw locations that need to be removed before detaching the panel.

5.3. Original Speaker Removal and Wiring

Remove the factory speakers and prepare the wiring for the new speakers.

1. Remove the genuine speaker from its mounting location. Disconnect the speaker connector.
2. Remove the tapping grommets from the speaker opening. Keep them with the genuine speaker if you plan to reinstall it later.
3. Perform wiring processing for the network cable. Cut the network cable end with nippers if using electrotaps.
4. Attach electrotaps to the speaker wiring. Pay close attention to polarity (+/-) as confirmed using the genuine speaker.

5. Secure the plastic cover of the electrotap by folding it until the hook engages.
6. Repeat the wiring process for the other side.



Image: The original speaker being removed from the door, showing the wiring and tapping grommets. This image also illustrates the process of cutting the network cable and attaching electrotaps, emphasizing correct polarity.

5.4. Tweeter Bracket Installation

Install the prepared tweeter bracket into the vehicle's door mirror section.

1. Connect the tweeter cable and network cable.
2. Route any excess wiring to a location that does not interfere with the bracket installation.
3. Install the tweeter bracket into the door mirror section, ensuring it is firmly pushed in until it clicks into place.



Image: The UD-K301 tweeter bracket securely installed in the door mirror section of the vehicle, showing the integrated tweeter.

5.5. Door Panel Reinstallation

Reinstall the door panel and test functionality.

1. Reconnect all electrical connectors and door opening wires.
2. Align the door panel with the door frame and firmly push it into place, ensuring all clips engage.
3. Reinstall all screws and covers.
4. After installation, confirm that sound is emitted from the speakers and that power windows and door locks operate normally.



Image: The interior of the vehicle with the tweeter bracket installed and the door panel reinstalled, showing the finished appearance.

6. Specifications

Pioneer Carrozzeria TS-F1640S-2 Speaker

Feature	Specification
Speaker Configuration	16 cm IMCC Woofer / 2.9 cm Balanced Dome Tweeter
Instantaneous Maximum Input	160 W
Rated Input	30 W
Playback Frequency Band	34 Hz ~ 58000 Hz
Subwoofer Diameter	16 cm
Speaker Type	Woofer

Pioneer Carrozzeria UD-K301 Tweeter Attachment Kit

Feature	Specification
Compatible Vehicle Models	Suzuki Jimny / Jimny Sierra

Compatible Speaker Models	TS-C1630S II / -F1640S II / -F1040S II / -T730 II / -T440 II / C1630S / -F1640S / -F1040S / -T730 / -T440
Mounting Type	Tabletop Mount (designed for door mirror section)

7. Troubleshooting

If you encounter issues after installation, refer to the following common problems and solutions:

- **No Sound from Speakers:**
  - Check all wiring connections to ensure they are secure and correctly polarized.
  - Verify that the vehicle's audio system is powered on and set to the correct input.
  - Ensure the vehicle's battery is properly connected and charged.
- **Distorted Sound:**
  - Confirm that speaker polarity is correct. Incorrect polarity can cause phase issues and distorted sound.
  - Check for loose connections or damaged wiring.
  - Ensure the speakers are securely mounted and not vibrating against the door panel.
- **Power Windows or Door Locks Not Working:**
  - Recheck all electrical connectors that were disconnected during door panel removal. Ensure they are fully seated.
  - Verify that no wires are pinched or damaged by the door panel.

If the issue persists, contact Pioneer customer support or a certified car audio technician.

8. Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official Pioneer website. For technical support or further assistance, please contact Pioneer customer service.
Pioneer Customer Support: jpn.pioneer.com/ja/support/

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