Connects2 AI-CTSVW002.2

Connects2 VW Steering Wheel Control Interface User Manual

Model: AI-CTSVW002.2
Brand: Connects2

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Connects2 AI-CTSVW002.2 Steering Wheel Control Interface. This device is designed to allow the retention of factory steering wheel controls when installing an aftermarket head unit in compatible Volkswagen vehicles.

The interface translates the vehicle's CAN bus signals into commands that an aftermarket stereo can understand, ensuring seamless integration and continued functionality of your steering wheel buttons for audio control.

Image 1.1: The Connects2 AI-CTSVW002.2 Steering Wheel Control Interface, showing the main module, the vehicle-specific Quadlock (Fakra) connector, and the universal aftermarket head unit wiring harness.

2. PRODUCT OVERVIEW

The Connects2 AI-CTSVW002.2 interface consists of a compact electronic module and a pre-wired harness designed for plug-and-play installation in compatible Volkswagen vehicles. It facilitates communication between the vehicle's existing steering wheel controls and a new, non-original equipment manufacturer (OEM) head unit.

2.1. What's in the Box

- Steering Wheel Control Interface Module (AI-CTSVW002.2)
- Vehicle-specific wiring harness with Quadlock (Fakra) connector
- Universal aftermarket head unit connection wires

3. VEHICLE AND HEAD UNIT COMPATIBILITY

This interface is compatible with a range of Volkswagen vehicles equipped with specific factory head units and Quadlock (Fakra) connectors. Please verify your vehicle's make, model, year, and original head unit type against the table below before installation.

Manufacturer	Model	Year From	Year To	Headunit Connection
VW	Passat (B6, 3C) (B7, 3C36)	2005	2015	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Golf For Mk5 and Mk6	2003	2013	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Touran	2003	2015	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Transporter	2003	2015	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Polo 9N) (9N3) (6R)	2005	2014	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Jetta	2005	2015	RCD200/300/310/500/510 Quadlock (Fakra)
VW	EOS (1F)	2006	2015	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Tiguan (5N)	2007	2015	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Scirocco	2008	2015	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Amarok (2H)	2010		RCD200/300/310/500/510 Quadlock (Fakra)
VW	Suran	2009		Quadlock (Fakra)
VW	Vento Mexico	2005	2011	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Sagitar China	2005	2011	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Magotan Asia	2005	2011	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Fusca Brazil	2005	2011	RCD200/300/310/500/510 Quadlock (Fakra)
VW	Touareg	2010		RCD200/300/310/500/510 Quadlock (Fakra)
VW	UP! (VW120)	2011	2016	RCD200/300/310/500/510 Quadlock (Fakra)

Note: Compatibility is subject to vehicle trim level and specific factory options. Always verify the physical connectors in your vehicle before purchase and installation.

4. INSTALLATION GUIDE

Installation of the steering wheel control interface requires basic automotive electrical knowledge and tools. If you are unsure about any step, it is highly recommended to seek professional installation from a qualified car audio technician.

4.1. Safety Precautions

- Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits and damage to vehicle electronics.
- Ensure the vehicle is turned off and the key is removed from the ignition.
- Wear appropriate personal protective equipment (PPE), such as safety glasses.

4.2. Installation Steps

1. **Disconnect Battery:** Locate your vehicle's battery and disconnect the negative (-) terminal.
2. **Remove Factory Head Unit:** Carefully remove the existing factory head unit from the dashboard. This typically involves removing trim panels and unscrewing mounting brackets. Refer to your vehicle's service manual for specific instructions.
3. **Connect Interface to Vehicle Harness:** Connect the vehicle-specific Quadlock (Fakra) connector from the Connects2 interface harness directly into the corresponding port on your vehicle's wiring loom.
4. **Connect Interface to Aftermarket Head Unit:** Connect the universal wires from the Connects2 interface harness to your aftermarket head unit's wiring. This typically involves connecting:
   - Power (12V Constant)
   - Ignition (12V Switched)
   - Ground
   - Steering Wheel Control (SWC) input wire(s) from the aftermarket head unit. Consult your aftermarket head unit's manual for its specific SWC wiring.
   - Illumination (if applicable)
5. **Connect Antenna Adapter (if required):** If your aftermarket head unit requires a different antenna connection, install the appropriate adapter.
6. **Test Functionality:** Before fully reassembling the dashboard, reconnect the vehicle's negative battery terminal. Turn on the ignition and the aftermarket head unit. Test all steering wheel control buttons (volume up/down, track skip, mode, phone controls, etc.) to ensure they function correctly with the new head unit.
7. **Secure and Reassemble:** Once all functions are verified, carefully secure the interface module and wiring, ensuring no wires are pinched. Reinstall the aftermarket head unit and all dashboard trim panels.

5. OPERATION

Once correctly installed, the Connects2 AI-CTSVW002.2 interface operates automatically. It acts as a bridge, translating the digital signals from your vehicle's steering wheel controls into analog or digital signals compatible with your aftermarket head unit.

The functionality of each steering wheel button will correspond to its original purpose (e.g., volume up/down, track forward/back, mode selection, answer/end call) as long as the aftermarket head unit supports these functions via its steering wheel control input.

Voice Assistant Support: The product description indicates that Voice Assistant support is available with a software update (Part Number: SWCREFLASHER). Please refer to the Connects2 website or contact their

support for information on how to obtain and apply this software update if you wish to enable voice assistant functionality via your steering wheel controls.

6. TROUBLESHOOTING

If you encounter issues after installing the Connects2 AI-CTSVW002.2 interface, please refer to the following common problems and solutions:

- **No Steering Wheel Control Functionality:**
  - Ensure all connections are secure and correctly wired according to both this manual and your aftermarket head unit's instructions.
  - Verify that your aftermarket head unit has a dedicated steering wheel control input and that it is enabled in the head unit's settings.
  - Check vehicle compatibility (model, year, factory head unit type) against Section 3.
  - Confirm the vehicle's CAN bus system is active and functioning correctly.

- **Intermittent or Incorrect Button Function:**
  - Check for loose connections or damaged wiring.
  - Some aftermarket head units require programming or learning of steering wheel controls. Refer to your head unit's manual for instructions on how to program the buttons.
  - Ensure the interface module is securely mounted and not subject to excessive vibration.

- **Head Unit Not Powering On:**
  - This interface primarily handles steering wheel controls. However, ensure the main power (constant 12V) and ignition (switched 12V) wires are correctly connected from the vehicle to the head unit, possibly via the interface harness.
  - Check vehicle fuses.

If troubleshooting steps do not resolve the issue, please contact Connects2 customer support or consult a professional installer.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	AI-CTSVW002.2
Manufacturer Part Number	AI-CTSVW002.2
Brand	Connects2
Item Weight	3.52 ounces (approx. 0.1 kg)
Product Dimensions (L x W x H)	2.36 x 0.71 x 1.69 inches (approx. 6 x 1.8 x 4.3 cm)
Color	Black
Material	Plastic
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Passenger Car

Feature	Specification
Head Unit Compatibility	Aftermarket head units with SWC input
Vehicle Connector Type	Quadlock (Fakra)

8. CARE AND MAINTENANCE

The Connects2 AI-CTSVW002.2 interface is designed for long-term reliability and requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Keep Dry:** Ensure the module and connections remain dry and free from moisture.
- **Avoid Extreme Temperatures:** Do not expose the device to extreme heat or cold, which can affect electronic components.
- **Clean Gently:** If cleaning is necessary, use a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Secure Installation:** Ensure the module is securely mounted within the dashboard to prevent rattling or damage from vibrations.

9. WARRANTY AND SUPPORT

Connects2 products are manufactured to high standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Connects2 website.

For technical support, troubleshooting assistance beyond what is covered in this manual, or inquiries regarding software updates (e.g., for Voice Assistant support), please contact Connects2 customer service directly. Contact information can typically be found on their official website or on the product packaging.