

## VAIS Technology GSR-TY02-w/Tuner Kit

# VAIS Technology GSR-TY02-w/Tuner Kit SiriusXM Satellite Radio Adapter Instruction Manual

## 1. PRODUCT OVERVIEW

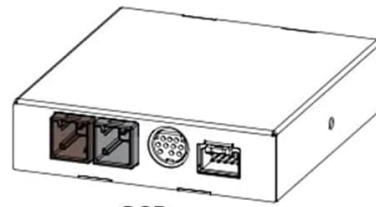
The VAIS Technology GSR-TY02-w/Tuner Kit is designed to integrate SiriusXM Satellite Radio functionality directly into select factory Toyota radio systems. This adapter allows users to access SiriusXM channels using their vehicle's existing radio controls and display, maintaining the original aesthetic and functionality of the vehicle's dashboard.

## 2. WHAT'S INCLUDED

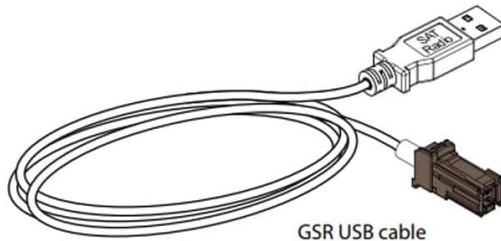
The following components are included in your GSR-TY02-w/Tuner Kit:

- GSR Interface Adapter
- GSR USB Cable
- Power Harness
- Vehicle Antenna
- SiriusXM Tuner SXV300

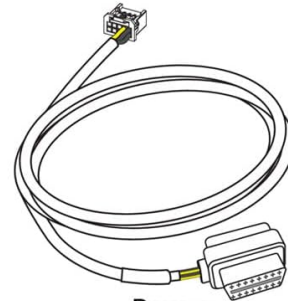
# What's Included



GSR  
Interface Adapter



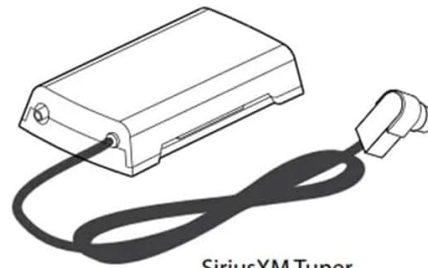
GSR USB cable



Power  
Harness



Vehicle Antenna



SiriusXM Tuner  
SXV300

**Vehicle Antenna  
and SiriusXM Tuner  
SXV300 are included  
in GSR-TKIT only**

Figure 2.1: Components of the GSR-TY02-w/Tuner Kit.

## 3. GSR CONNECTORS AND PORTS

Familiarize yourself with the connectors and ports on the GSR unit for proper installation and functionality.

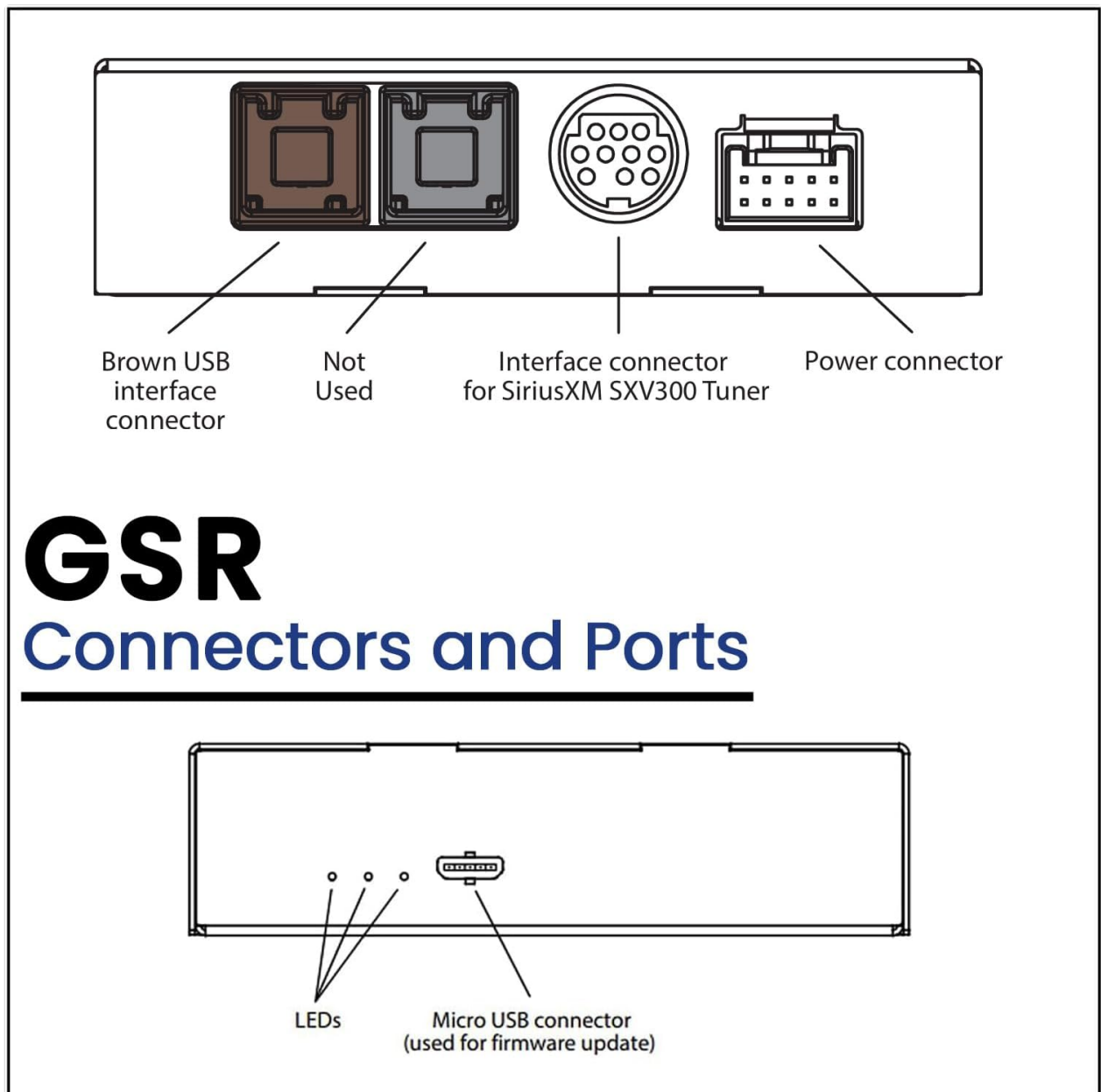


Figure 3.1: GSR Unit Connectors and Ports.

- **Brown USB Interface Connector:** Connects to the vehicle's factory USB data port.
- **Interface Connector for SiriusXM SXV300 Tuner:** Connects the SiriusXM tuner.
- **Power Connector:** Connects to the vehicle's power source via the OBD II harness.
- **LEDs:** Indicate unit status.
- **Micro USB Connector:** Used for firmware updates.

## 4. COMPATIBILITY

The VAIS - GSR-TY02 is specifically designed for select Factory Toyota models. Ensure your vehicle is listed below for proper functionality:

- Camry/Solara (2018 - 2022) - With factory USB
- C-HR (2019-2022) - With factory USB
- Corolla/Corolla Hybrid (2020-2022) - With factory USB

- Corolla Hatchback (2019-2022) - With factory USB
- Highlander (2020-2022) - With factory USB
- Prius (2020-2022) - With factory USB
- RAV4 (2019-2022) - With factory USB
- Sienna (2019-2020) - With factory USB
- Tacoma (2020-2022) - With factory USB

Toyota						
4 Runner	2005-2013	Without JBL	SL3sat-T			CD
		With JBL, Navigation or AM/SAT button	SL3sat-T			SAT
86	2014-2016	With factory USB	GSR-TY51	GSR-TY01		
		Without Navigation	GSR-TY51	GSR-TY01		
Avalon	2017-2019	With Navigation		GSR-TY03		
		Without JBL	SL3sat-T			CD
Avalon	2005-2011	With JBL, Navigation or AM/SAT button	SL3sat-T			SAT
		With Touch screen or AM/SAT button	SL3sat-T			SAT
Camry/Solara	2013-2014	With factory USB	GSR-TY51	GSR-TY01		
		Without JBL	SL3sat-T			CD
Camry/Solara	2005-2014*	With JBL, Navigation or AM/SAT button	SL3sat-T			SAT
		With factory USB	GSR-TY51	GSR-TY01		
C-HR	2018-2022	With factory USB	GSR-TY52	GSR-TY02		
		With factory USB	GSR-TY51	GSR-TY01		
Corolla/Matrix/Yaris	2007-2011	Without AM/SAT button	SL3sat-T			CD
		With AM/SAT button	SL3sat-T			SAT
Corolla/Corolla/Hybrid	2012-2013	With multi-touch display or SAT button	SL3sat-T			SAT
		With factory USB	GSR-TY51	GSR-TY01		
Corolla Hatchback	2014-2019	With factory USB	GSR-TY52	GSR-TY02		
		With factory USB	GSR-TY52	GSR-TY02		
FJ Cruiser	2006-2011	Without JBL	SL3sat-T			CD
		With JBL, Navigation or AM/SAT button	SL3sat-T			SAT
Highlander	2007-2011	Without JBL	SL3sat-T			CD
		With JBL, Navigation or AM/SAT button	SL3sat-T			SAT
Highlander	2012-2013	With multi-touch display or SAT button	SL3sat-T			SAT
		With factory USB	GSR-TY51	GSR-TY01		
Land Cruiser	2014-2019	With factory USB	GSR-TY52	GSR-TY02		
		With factory USB	GSR-TY52	GSR-TY02		
Land Cruiser	2003-2004	With Navigation	SL3sat-T			MD
		All Packages	SL3sat-T			SAT
Prius	2004-2011	All Packages	SL3sat-T			SAT
		With Touch screen (except 2012 Prius C)	SL3sat-T			SAT
Prius	2015	Prius II & V	SL3sat-T			SAT
		Prius C	GSR-TY51	GSR-TY01		
RAV4	2016-2019	With factory USB	GSR-TY51	GSR-TY01		
		With factory USB	GSR-TY52	GSR-TY02		
RAV4	2008-2011	Without JBL	SL3sat-T			CD
		With JBL, Navigation or AM/SAT button	SL3sat-T			SAT
Sequoia	2013-2014	With Touch screen or AM/SAT button	SL3sat-T			SAT
		With factory USB	GSR-TY51	GSR-TY01		
Sienna	2014-2018	With factory USB	GSR-TY52	GSR-TY02		
		Without JBL	SL3sat-T			CD
Sienna	2005-2011	JBL	SL3sat-T			CD
		With Navigation or AM/SAT button	SL3sat-T			SAT
Tacoma	2004-2005	With Navigation	SL3sat-T			SAT
		Without JBL	SL3sat-T			CD
Tacoma	2006-2014	With JBL, Navigation or AM/SAT button	SL3sat-T			SAT
		With factory USB	GSR-TY51	GSR-TY01		
Tundra	2015-2018	With factory USB	GSR-TY52	GSR-TY02		
		Without JBL	SL3sat-T			CD
Tundra	2005-2011	With JBL, Navigation or AM/SAT button	SL3sat-T			SAT
		With Touch screen or AM/SAT button	SL3sat-T			SAT
Venza	2012-2013	With factory USB	GSR-TY51	GSR-TY01		
		With factory USB	GSR-TY52	GSR-TY02		
Yaris/Yaris iA	2014-2019	Without JBL	SL3sat-T			CD
		JBL	SL3sat-T			CD
Yaris/Yaris iA	2005-2006	With Navigation	SL3sat-T			SAT
		All Packages	SL3sat-T			SAT
Yaris/Yaris iA	2007-2013	With factory USB	GSR-TY51	GSR-TY01		
		With factory USB	GSR-TY52	GSR-TY02		
Yaris/Yaris iA	2014-2021	Without JBL	SL3sat-T			CD
		JBL	SL3sat-T			CD
Yaris/Yaris iA	2018-2019	With factory USB	GSR-TY51	GSR-TY01		
		With factory USB	GSR-TY52	GSR-TY02		
Yaris/Yaris iA	2014-2019	All Packages	SL3sat-T			SAT
		With factory USB	GSR-TY51	GSR-TY01		
Yaris/Yaris iA	2018-2019	With factory USB	GSR-TY52	GSR-TY02		
		With factory USB	GSR-TY52	GSR-TY02		

Figure 4.1: Detailed Compatibility Chart for Toyota Vehicles.

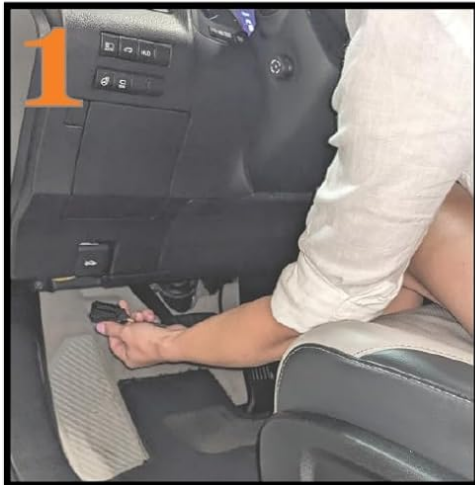
## 5. INSTALLATION INSTRUCTIONS

Follow these steps for a successful installation of your VAIS Technology SiriusXM adapter. Professional installation is recommended if you are uncomfortable with any of these steps.

### 5.1. General Installation Steps

1. Connect the OBD II connector to your vehicle's OBD II port for power.
2. Plug the VAIS adapter into the factory USB data port to send SiriusXM data to the radio.

3. Mount the antenna on the highest point of the vehicle's roof for optimal reception.
4. Secure the GSR and SiriusXM tuner behind the dash panels.



### Connect OBD II Connector

Connect the OBD II connector to the OBD II connection in the vehicle for power



### Connect GSR to Factory USB Port to feed SiriusXM

Route and insert the provided USB-A or USB-C cable into the appropriate USB port. This port can typically be found on the dashboard or in the center console.



### Install Antenna on the Roof

For the best Satellite Radio reception, install antenna on the highest point of the vehicle, and must be mounted outside the vehicle



### Mount Everything Behind the Panels

Mount the GSR and the SiriusXM Vehicle Tuner behind the dash and secure in place

Figure 5.1: Overview of Installation Steps.

## 5.2. SiriusXM Antenna Installation

Proper placement and routing of the SiriusXM antenna are crucial for optimal signal reception. The antenna should be placed on a horizontal surface that always faces the sky, typically the vehicle's roof.

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Video 5.2: Detailed guide on installing the SiriusXM antenna, including recommended placement and cable routing techniques to ensure proper signal and a clean installation.

### 5.2.1. Antenna Placement Guidelines:

- Place the magnetic mount antenna on the outside of your vehicle, on a horizontal surface that always faces the sky.
- For most vehicles, this is the roof, centered above the rear window or front windshield.
- Avoid placing the antenna where a clear view of the sky would be blocked (e.g., inside the car, under a roof rack, on side panels, or near another antenna).
- If your vehicle roof is made from non-magnetic material (e.g., aluminum, fiberglass, carbon fiber), consult a professional installer for alternative mounting locations.

### 5.2.2. Cable Routing:

- Once the antenna is placed, use an antenna installation tool to feed the cable under the rubber molding around the window.
- Route the cable out of the window molding and into the weather stripping around the trunk opening.
- Continue routing the cable along the trunk wall and into the vehicle cabin.
- From the trunk, route the cable under the interior trim, into the cabin, and towards the front of your vehicle to reach the car stereo receiver.
- Coil and secure any excess cable under the carpet or behind the dash.
- Ensure the antenna cable is kept away from moving parts such as gas and brake pedals, trunk and door hinges, and sliding seat brackets to prevent damage.

## 6. OPERATION

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After successful installation, you can begin using your SiriusXM Satellite Radio adapter.

### 6.1. Activating SiriusXM

1. Locate the USB port in your vehicle's dashboard and ensure the adapter is plugged in.
2. Activate your SiriusXM subscription.
3. Turn on your vehicle and select SiriusXM from the audio source menu on your factory radio.

### 6.2. Using Factory Radio Controls

The adapter allows you to browse and enjoy SiriusXM channels using your vehicle's factory radio controls, including steering wheel controls.



# How To use



**A.**

**Add SiriusXM To Your Original Factory Radio**  
You can use your factory steering wheel controls, so your eyes stay on the road

Browse your favorite channels and categories using factory radio controls  
Add up to 36 presets



**B.**



**C.**

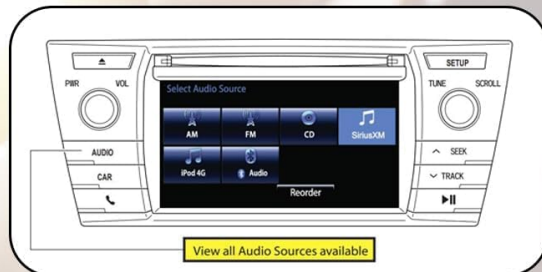
The unit connects behind the dash or via USB, so everything stays hidden

Figure 6.1: Operating the SiriusXM Adapter with Factory Controls.

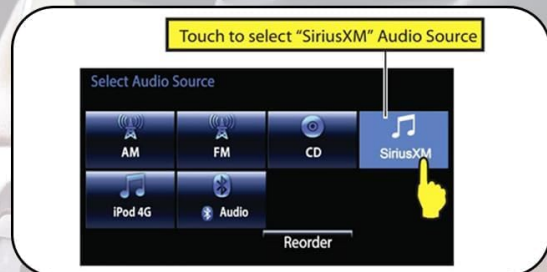
## 6.3. SiriusXM Source Selection

Access SiriusXM by selecting it as an audio source on your vehicle's display. You can then navigate channels and presets.

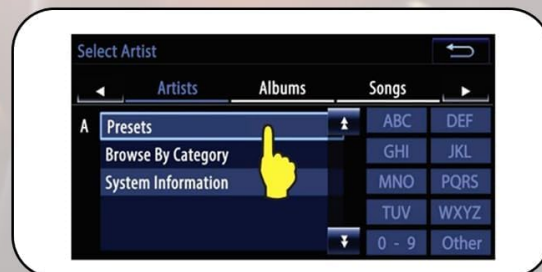
# SiriusXM Source Selection



(A)



(B)



(C)



(D)

- 1** Tuning Knob - switch to next available channel, depending on direction of rotation. (Tuning knob may not be available while radio is loading channel list.)
- 2** "Track Seek+" and "Track Seek-" switch to next available channel.  
Long Touch on "Track Seek+" and "Track Seek-" switch to next available Preset.

Figure 6.2: SiriusXM Audio Source Selection and Channel Browsing.

- **Tuning Knob:** Switch to the next available channel, depending on the direction of rotation.
- **"Track Seek+" and "Track Seek-" buttons:** Switch to the next available channel.
- **Long Touch on "Track Seek+" and "Track Seek-" buttons:** Switch to the next available Preset.

## 7. SPECIFICATIONS

Feature	Detail
Product Dimensions	5 x 3 x 8 inches (12.7 x 7.6 x 20.3 cm)
Item Weight	1 pound (0.45 kg)
Item Model Number	GSR-TY02-w/Tuner Kit
Connectivity Technology	USB



Tuner Technology	Internet Radio (for SiriusXM integration)
Radio Bands Supported	FM (for factory radio integration)
Frequency	108 MHz
UPC	793597748171

## 8. MAINTENANCE

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The VAIS Technology GSR-TY02-w/Tuner Kit is designed for minimal maintenance. Keep the unit and connections clean and dry. Avoid exposing the unit to extreme temperatures or moisture. Periodically check all connections to ensure they are secure.

Firmware updates may be released periodically to improve performance or add features. Use the Micro USB connector on the GSR unit for any necessary firmware updates, following instructions provided by VAIS Technology.

## 9. TROUBLESHOOTING

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If you encounter issues with your GSR-TY02-w/Tuner Kit, consider the following troubleshooting steps:

- **No SiriusXM Signal:** Ensure the antenna is correctly placed on the vehicle's roof with a clear view of the sky and that the antenna cable is securely connected and not damaged.
- **No Power to Unit:** Verify the OBD II connector is firmly plugged into the vehicle's OBD II port. Check vehicle's fuse box if necessary.
- **Radio Not Recognizing SiriusXM:** Confirm the VAIS adapter is securely plugged into the factory USB data port. Ensure your SiriusXM subscription is active. Try restarting the vehicle's ignition.
- **Intermittent Audio:** Check all cable connections for looseness or damage. Ensure the antenna cable is not routed near sources of electrical interference.
- **Controls Not Responding:** Verify all connections are secure. Ensure the vehicle's factory radio is set to the SiriusXM source.

If problems persist after attempting these steps, please contact VAIS Technology customer support for further assistance.

## 10. WARRANTY AND SUPPORT

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For warranty information, product registration, or technical support, please refer to the documentation included with your product or visit the official VAIS Technology website. Keep your purchase receipt for warranty claims.