

Steelman 61082

Steelman Wireless ChassisEAR Auto Diagnostic Tool Kit

Model: 61082

Brand: Steelman

INTRODUCTION

The STEELMAN 61082 Wireless ChassisEAR is a diagnostic device designed to pinpoint the source of squeaks, rattles, and other troublesome noises in a vehicle's engine, axles, and chassis. This tool is ideal for diagnosing issues in components such as faulty fuel injectors, bearings, gears, suspensions, transmissions, differentials, and CV joints, as well as noises originating from under the hood. It functions as a high-powered wireless stethoscope, allowing technicians to listen to various parts of the vehicle during operation to identify noises that are difficult to replicate in a stationary repair environment.

WHAT'S IN THE BOX

Your Steelman Wireless ChassisEAR kit includes the following components:

- 4 x Wireless Transmitters
- 1 x Receiver Unit
- 1 x Set of Mini Earphones
- 4 x Cable-Leads/Microphone Clamps
- 12 x Nylon Straps
- 12 x Hook-and-Loop Straps
- 6 x AA Batteries (for receiver)
- 16 x AAA Batteries (for transmitters)
- 1 x Organizer Pouch
- 1 x Location Identifier Note Pad
- 1 x Instruction Manual
- 1 x Blow-Molded Storage Case



Figure 1: Complete Steelman Wireless ChassisEAR kit with all components.



Figure 2: The kit neatly organized within its durable blow-molded storage case.

SETUP

1. Battery Installation:

- For the Receiver Unit: Open the battery compartment and insert 6 AA batteries, observing correct polarity.
- For each Transmitter: Open the battery compartment and insert 4 AAA batteries, observing correct polarity.

2. Connect Microphones: Attach each cable-lead/microphone clamp to the corresponding transmitter unit. Ensure a secure connection.

3. Power On: Turn on the receiver unit using the ON/OFF Volume knob. Turn on each transmitter unit by pressing its power button.

4. **Earphones Connection:** Plug the mini earphones into the 3.5mm headphone jack on the receiver unit.



Figure 3: The receiver unit, showing channel select buttons, signal indicator, and headphone jack.



Figure 4: A single transmitter unit connected to a microphone clamp.

OPERATING INSTRUCTIONS

1. Placement of Transmitters:

Attach the 4 independent transmitters to different locations on the vehicle where you suspect the noise originates. Use the built-in clips, magnets, or the provided nylon hook-and-loop straps for secure placement.

2. Channel Selection:

On the receiver unit, press the "CHANNEL SELECT" buttons (1-4) to switch between the audio feeds from each transmitter.

Active channels will have illuminated buttons. You can mute a channel by pressing its button again.

3. **Monitoring Sound:**

Listen to the sounds through the built-in speaker or the connected earphones. Adjust the ON/OFF Volume knob to a comfortable listening level. The signal strength indicator (LED lights) will show the strength of the active channel's signal.

4. **Vehicle Operation:**

Operate the vehicle under conditions that typically produce the noise. This allows you to hear the noises as they occur, making diagnosis easier than in a stationary setting.

5. **Pinpointing Noise:**

By switching between channels and observing the signal strength, you can pinpoint the exact location and cause of the noise. The 50-foot signal range allows for use on various vehicle sizes.



Figure 5: Organizer pouch containing microphone clamps and various straps for secure attachment.

MAINTENANCE

- **Cleaning:** Wipe down the receiver and transmitter units with a soft, dry cloth after each use. Avoid using abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries in both the receiver and transmitters when the signal strength indicator shows low power or when audio quality degrades. Always use fresh batteries of the specified type (AA for receiver, AAA for transmitters).
- **Storage:** Store the kit in its original blow-molded case in a cool, dry place when not in use to protect components from damage and dust.
- **Cable Inspection:** Periodically inspect all cables and microphone clamps for signs of wear, fraying, or damage. Replace any damaged components immediately to ensure optimal performance and safety.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound from receiver.	Receiver not powered on. Low or dead batteries in receiver. Earphones not properly connected or faulty. Volume too low.	Ensure ON/OFF Volume knob is turned on. Replace AA batteries in the receiver. Check earphone connection; try another set of earphones. Increase volume.
No signal from a specific transmitter.	Transmitter not powered on. Low or dead batteries in transmitter. Microphone clamp not connected or faulty. Incorrect channel selected on receiver. Transmitter out of range.	Ensure transmitter power button is pressed. Replace AAA batteries in the transmitter. Check microphone clamp connection; try another clamp if available. Select the correct channel (1-4) on the receiver. Move transmitter closer to the receiver (within 50-foot range).
Distorted or unclear sound.	Interference from other electronic devices. Microphone clamp not securely attached. Damaged microphone or cable.	Move away from sources of strong electromagnetic interference. Ensure microphone clamp is firmly attached to the component. Inspect microphone and cable for damage; replace if necessary.

SPECIFICATIONS

- **Model:** 61082
- **Brand:** Steelman
- **Item Weight:** 7.9 pounds
- **Product Dimensions:** 17.5 x 13 x 6.75 inches
- **Transmitter Range:** Up to 50 feet
- **Transmitters Included:** 4 independent units
- **Receiver Power:** 6 x AA batteries (included)
- **Transmitter Power:** 4 x AAA batteries per transmitter (16 total included)
- **Audio Output:** Built-in speaker, 3.5mm headphone jack
- **Compatibility:** Not compatible with older STEELMAN 60635 and 97202 models due to different frequencies.

WARRANTY AND SUPPORT

Steelman products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Steelman website. If you encounter any issues or require technical assistance, please contact Steelman customer support. Keep your purchase receipt as proof of purchase for warranty claims. For more information and support, visit the [Steelman Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question