

## Safety Message to Installers of Siren Speakers

### **⚠ WARNING**

People's lives depend on your proper installation and servicing of Federal Signal products. It is important to read and follow all instructions shipped with this product and the original product. Listed below are some other important safety instructions and precautions you should follow.

#### **Before Installation**

##### *Qualifications*

- To properly install an electronic siren, you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and service of safety warning equipment. Always refer to the vehicle's service manuals when installing equipment on a vehicle.

##### *Sound Hazards*

- Your hearing and the hearing of others, in or near your emergency vehicle, could be damaged by loud sounds. This can occur from short exposures to very loud sounds or from longer exposures to moderately loud sounds. For hearing conservation guidance, refer to federal, state, or local recommendations. OSHA Standard 1910.95 offers guidance on "Permissible Noise Exposure."
- All effective sirens and horns produce loud sounds (120 dB) that may cause permanent hearing loss. Always minimize your exposure to the sound of the siren or horn and wear hearing protection. Do not sound the siren or horn indoors or in enclosed areas where you and others will be exposed to the sound.
- Federal Signal siren amplifiers and speakers are designed to work together as a system. Combining a siren and speaker from different manufacturers may reduce the warning effectiveness of the siren system and may damage the components. Verify or test your combination to make sure the system works together properly and meets federal, state, and local standards or guidelines.

#### **During Installation**

- DO NOT get metal shavings inside the product. Metal shavings can cause the system to fail. If drilling must be done near the unit, place an ESD-approved cover over the unit to prevent metal shavings from entering the unit. Inspect the unit after mounting to be sure there are no shavings present in or near the unit.
- To avoid a battery explosion, always disconnect the negative battery cable first and reconnect it last. Avoid causing a spark when connecting near or to the battery. The gases produced by a battery can cause a battery explosion that could result in vehicle damage and serious injury.
- DO NOT connect this system to the vehicle battery until ALL other electrical connections are made, mounting of all components is complete, and you have verified that no shorts exist. If wiring is shorted to the vehicle frame, high current conductors can cause hazardous sparks resulting in electrical fires or flying molten metal.
- Make sure the siren amplifier and speaker(s) in your installation have compatible wattage ratings.
- In order for the electronic siren to function properly, the ground connection must be made to the NEGATIVE battery terminal.

## ***Mounting Instructions for a Rumbler® Solo/Compact Speaker in a 2023+ Dodge® Durango®***

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- Sound output will be severely reduced if any objects are in front of the speaker. If maximum sound output is required for your application, ensure that the front of the speaker is clear of any obstructions.
- Install the speaker(s) as far forward on the vehicle as possible in a location that provides maximum signaling effectiveness while minimizing the sound reaching the vehicle's occupants. Refer to the National Institute of Justice guide 500-00 for further information.
- Sound propagation and warning effectiveness will be severely reduced if the speaker is not facing forward. Carefully follow the installation instructions, and always install the speaker with the projector facing forward.
- DO NOT install the speaker(s) or route the speaker wires where they may interfere with the operation of airbag sensors.
- If a vehicle seat is temporarily removed, verify with the vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment.
- Installation of two speakers requires that you wire the speakers in phase.
- Never attempt to install aftermarket equipment that connects to the vehicle wiring without reviewing a vehicle wiring diagram, which is available from the vehicle manufacturer. Ensure that your installation will not affect vehicle operation and safety functions or circuits. Always check the vehicle for proper operation after installation.
- DO NOT install equipment or route wiring or cord in the deployment path of an airbag.
- Locate the control head so the vehicle, controls, and microphone can be operated safely.
- When drilling into a vehicle structure, ensure that both sides of the surface are clear of anything that could be damaged.
- If a vehicle seat is temporarily removed, verify with the vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment.

### **After Installation**

- After installation, test the siren system and light system to ensure that it is operating properly.
- Test all vehicle functions, including horn operation, vehicle safety functions, and vehicle light systems, to ensure proper operation. Ensure that installation has not affected vehicle operation or changed any vehicle safety function or circuit.
- After testing is complete, provide a copy of these instructions to the instructional staff and all operating personnel.
- File these instructions in a safe place and refer to them when maintaining or reinstalling the product.

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death.

## Introduction

RBS-DUR23ND and RBC2-DUR23ND are mounting kits for the Federal Signal Solo/Compact Rumbler low-frequency signaling system. These kits mount the Rumbler speakers behind the front bumper of the 2023+ Dodge Durango. The RBS-DUR23ND Kit is intended for mounting only one speaker, either the Solo or Compact, onto the vehicle. The RBC2-DUR23ND kit is intended only for mounting two compact speakers onto the vehicle.

## Unpacking the Kit

After unpacking the kit, inspect it for damage that may have occurred in transit. If it has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier, stating the extent of the damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Ensure that the parts in the appropriate Kit Contents List are included in the package. If you are missing any parts, contact Customer Support at 1-800-264-3578, 7 a.m. to 5 p.m., Monday through Friday (CT).

**Table 1 RBS-DUR23ND Kit Contents**

Qty.	Description	Part Number
1	Passenger Side Compact/Solo Rumbler Bracket, DUR23	828304497

**Table 2 RBS2-DUR23ND Kit Contents**

Qty.	Description	Part Number
1	Passenger Side Compact/Solo Rumbler Bracket, DUR23	828304497
1	Driver Side Compact Rumbler Bracket, DUR23	828304508

## Installing the Bracket

### **⚠ WARNING**

***FIRE HAZARD: Do not install the speaker near the fuel tank or fuel lines. Installing the speaker too close to fuel line/tank areas may cause fuel leakage or a fire during a vehicle collision, causing personal injury or death.***

### **NOTICE**

***MOUNTING PRECAUTIONS: To avoid reducing the sound output and damaging the speaker, ensure that the speaker is mounted with the wires protruding from the bottom of the speaker and the slots facing the ground.***

### **NOTICE**

***USE ONLY WITH RUMBLER AMPLIFIER OR PATHFINDER® SIREN: This speaker is designed to be used only with the Rumbler Amplifier or Pathfinder Siren. Do not connect this speaker directly to a standard electronic siren. Connecting this speaker directly to a standard electronic siren will greatly reduce the effectiveness of the siren signal. When installing this speaker, always refer to the Rumbler low-frequency amplifier installation and operating instructions (part no. 2562420) for more detailed information about the siren system and how to install, service and operate the system safely. Instruction manuals are available for viewing or download at [www.fedsig.com/resource-library](http://www.fedsig.com/resource-library).***

## **NOTICE**

**DRILLING/TRIMMING PRECAUTIONS:** Before drilling holes or trimming sections of the vehicle trim, check the area you are drilling or trimming into to be sure you do not damage vehicle components while drilling and/or trimming. All drilled holes should be de-burred, and all sharp edges should be smoothed. All wire routings going through drilled holes should be protected by a grommet or convolute/split loom tubing. Ensure all wires are secure before trimming vehicle components.

### **Installing the Speaker**

To install the speaker:

1. To access the area behind the bumper located in front of the front passenger wheel, remove the fascia according to the manufacturer's service manual.
2. Remove the bolts on the vehicle frame where the bracket will be mounted. See Figure 1.

**Figure 1 Mounting Point**



3. Remove the bumper connector harness from the support tab. Remove the lower section of the tab harness support tab using an oscillating saw as shown in Figure 2. Cut the material below the marked line. Be sure to secure any wires that are in the vicinity of the tab.

**Figure 2 Section to Trim**



4. Mount the Rumbler bracket on the frame of the vehicle, securing the bracket with the removed bolts. See Figure 3.

**Figure 3 Bracket Mounted**



5. Loosen the bolts called out in Figures 4 and 5, which secure the front bash bar of the vehicle. Loosen these bolts to allow enough clearance between the bracket and bash bar to secure a Plastite® screw in the speaker's mounting location in that area. See Figures 4 and 5.

**Figure 4 Passenger Side Bash Bar**



**Figure 5 Driver Side Bash Bar**



6. With the bash bar loosened, mount the Rumbler speaker to the bracket, securing the speaker to the bracket using the four Plastite® screws supplied with the Rumbler. Torque the Plastite screws to 75 in-lb.
7. Secure the wiring harnesses, zip tying them to the plastic trim.



8. If installing the RBC2-DUR23ND Bracket Kit, remove the bolts on the driver side of the vehicle frame. (See Figure 6.) If installing the RBS-DUR23ND skip to step 11.

**Figure 6 Driver Side Frame Bolts**



9. Attach the Driver side Rumbler bracket to the frame, securing the bracket with the removed bolts.
10. With the bracket secured, mount the Rumbler Speaker to the bracket, securing the speaker to the bracket using the four Plastite® screws supplied with the Rumbler Speaker. Torque the Plastite screws to 75 in-lb.
11. Secure the bash bar by re-tightening the loosened bash bar bolts to factory recommended torque.

**Figure 7 Speakers Mounted**



**⚠ WARNING**

**SOUND HAZARD: All effective sirens and horns produce loud sounds (120 dB) that may cause permanent hearing loss. Always minimize your exposure to siren sound and wear hearing protection. Do not sound siren indoors or in enclosed areas where you and others will be exposed to the sound.**

12. Test the siren for proper operation.
13. Reassemble the vehicle according to the manufacturer's service manual.

## Getting Technical Support

For technical support, please contact:

Federal Signal Corporation  
Service Department  
Phone: 1-800-433-9132  
Email: [empserviceinfo@fedsig.com](mailto:empserviceinfo@fedsig.com)

## Getting Repair Service

The Federal Signal factory provides technical assistance with any problems that cannot be handled locally. Any product returned to Federal Signal for service, inspection, or repair must be accompanied by a Return Material Authorization (RMA). Obtain an RMA from a local Distributor or Manufacturer's Representative. Provide a brief explanation of the service requested or the nature of the malfunction.

Address all communications and shipments to the following:

Federal Signal Corporation  
Service Department  
2645 Federal Signal Dr.  
University Park, IL 60484-3167

## Ordering Replacement Parts

To order replacement parts, call Customer Support at 1-800-264-3578, 7 a.m. to 5 p.m., Monday through Friday (CT), or contact your nearest distributor.

## Limited Warranty

This product is subject to and covered by a limited warranty, a copy of which can be found at [www.fedsig.com/SSG-Warranty](http://www.fedsig.com/SSG-Warranty). A copy of this limited warranty can also be obtained by written request to Federal Signal Corporation, 2645 Federal Signal Drive, University Park, IL 60484, email to [info@fedsig.com](mailto:info@fedsig.com) or call +1 708-534-3400.

This limited warranty is in lieu of all other warranties, express or implied, contractual or statutory, including, but not limited to the warranty of merchantability, warranty of fitness for a particular purpose and any warranty against failure of its essential purpose.



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