

25500216 Rev. A0

## **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. You should 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.
- Be sure the siren amplifier and speaker(s) in your installation have compatible wattage ratings.

## ***Mounting Instructions for Rumbler Speakers in a 2015 Dodge Durango***

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- In order for the electronic siren to function properly, the ground connection must be made to the NEGATIVE battery terminal.
- Sound output will be severely reduced if any objects are in front of the speaker. If maximum sound output is required for your application, you should 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, which connects to the vehicle wiring, without reviewing a vehicle wiring diagram, which is available from the vehicle manufacturer. Insure that your installation will not affect vehicle operation and safety functions or circuits. Always check 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, be sure 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.

## Unpacking the Product

After unpacking the product, 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 damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Ensure that the parts listed in Table 1 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). Disposal of all shipping materials must be carried out in accordance with national and local codes and standards.

## Introduction

The RB-DUR15 is a mounting kit for the Federal Signal Rumbler® low-frequency signaling system. This kit mounts both speakers to the front bumper of the 2015 Dodge Durango.

## 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 damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Ensure that the parts in the 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** Kit contents

Qty.	Description	Part Number
1	Bracket, Passenger-Side Rumbler, DUR15	828301315
1	Bracket, Driver-Side Rumbler, DUR15	828301314
6	Screw, #14, Hex Washer-Head, TEK	7011243-16
6	1/4" Lockwasher	7074A016

## Installing the Brackets

### WARNING

**INSTALL SPEAKER AWAY FROM FUEL TANK AND FUEL LINES:** 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.

### WARNING

**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. Failure to follow this warning may cause serious injury or death.

### WARNING

**SPEAKER MOUNTING PRECAUTION:** To avoid reducing the sound output and damaging the speaker, ensure that the speaker is mounted with the slots facing the ground.

**⚠ WARNING**

**USE ONLY WITH RUMBLER AMPLIFIER:** *This speaker is designed to only be used with the Rumbler Amplifier. 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](http://www.fedsig.com). Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death.*

**NOTICE**

**DRILLING PRECAUTIONS:** *Before drilling holes, check the area you are drilling into to be sure you do not damage vehicle components while drilling. 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.*

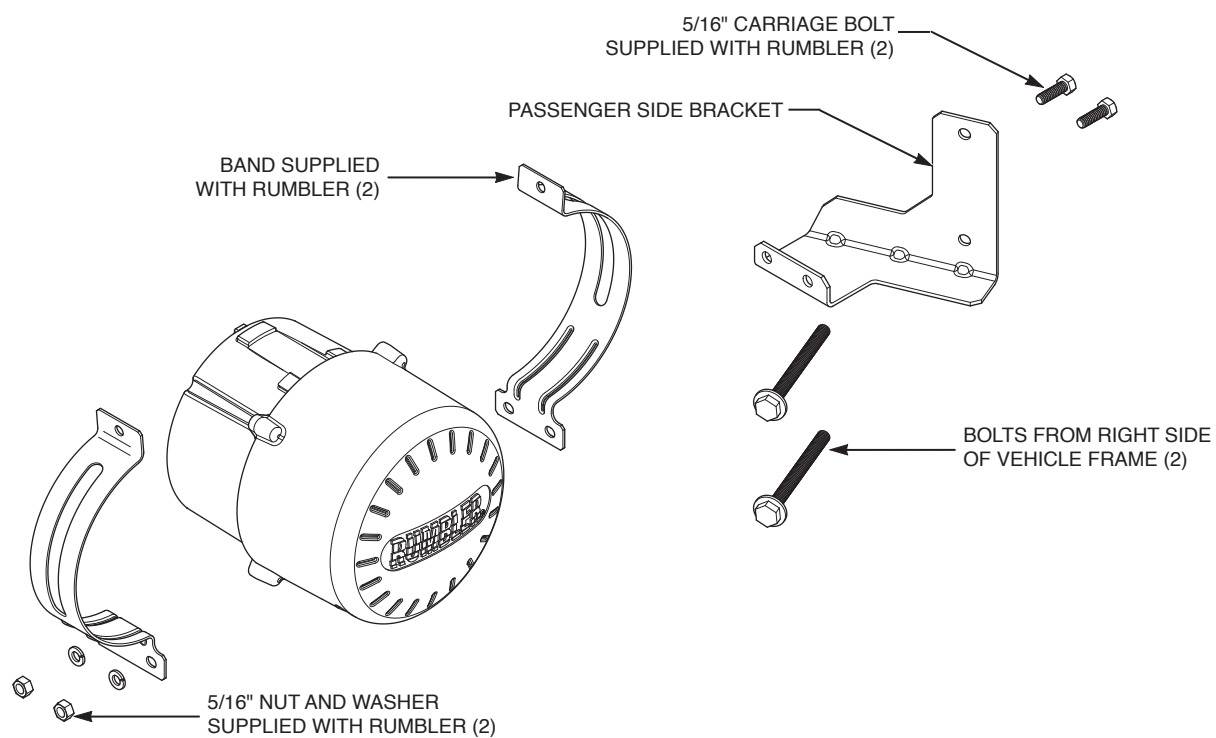
## **Installing the Speakers**

To install the speakers:

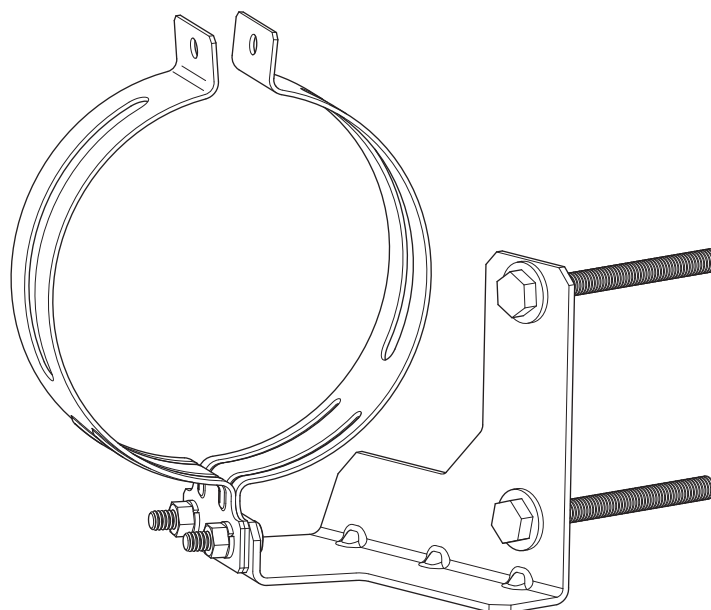
1. Install the passenger-side Rumbler:
  - a. See Figures 1 and 2. To access the area behind the bumper in front of the passenger front wheel, remove the fascia according to the manufacturer's service manual
  - b. Remove the bolts on the right side of the vehicle frame where the bracket will be mounted.
  - c. Mount the bracket to the frame with the bolts removed in the previous step.
  - d. See Figure 5 on page 7. Secure the Rumbler with the bands to the right side of the mounting lip on the bracket with the 5/16" bolts, nuts, and lockwashers supplied with the Rumbler kit.
2. Install the driver-side Rumbler:
  - a. See Figures 3 and 4 on page 6. Position the edge of the bracket on the bumper of the car 2-1/4" from the center of the bumper. Mark the mounting holes.
  - b. Drill the marked holes with a 13/64" drill.
  - c. Drop the 5/16" bolts through the mounting holes in the top of the bracket.
  - d. Install the bracket with six #14 screws and lockwashers. Do not over tighten.
  - e. See Figure 6 on page 7. Secure the Rumbler to the underside of the bracket with 5/16" bolts, nuts, and lockwashers supplied with Rumbler.
  - f. Connect the supplied wire harness to the leads from the amplifier. For details, refer to the instructions included with the amplifier.

**NOTE:** Two speakers must be connected in parallel and in phase.

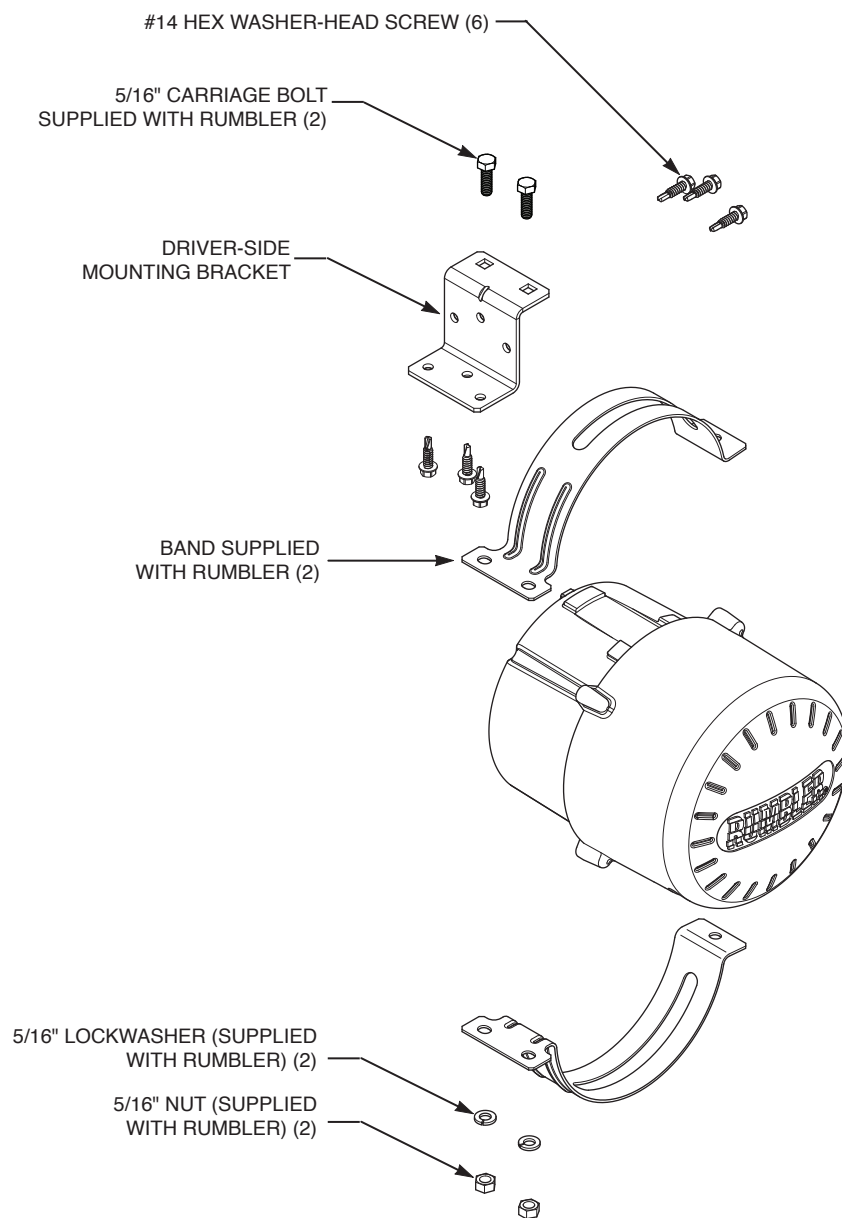
**Figure 1** Exploded view of passenger-side Rumbler installation



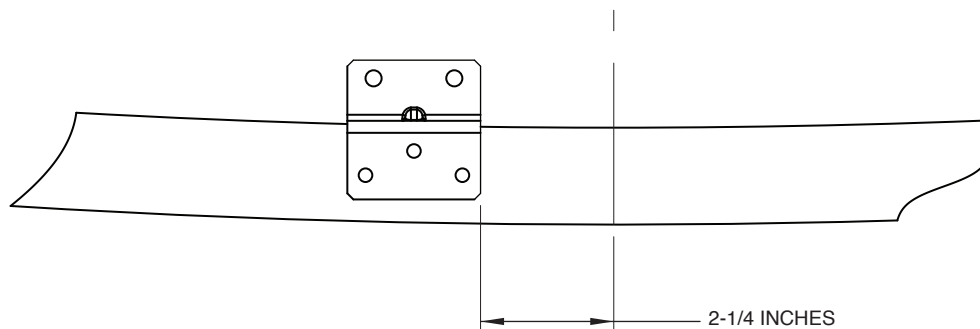
**Figure 2** Passenger-side bracket and bands assembly



**Figure 3** Exploded view of driver-side Rumbler installation



**Figure 4** Position of driver-side mounting bracket on the front bumper



**⚠ WARNING**

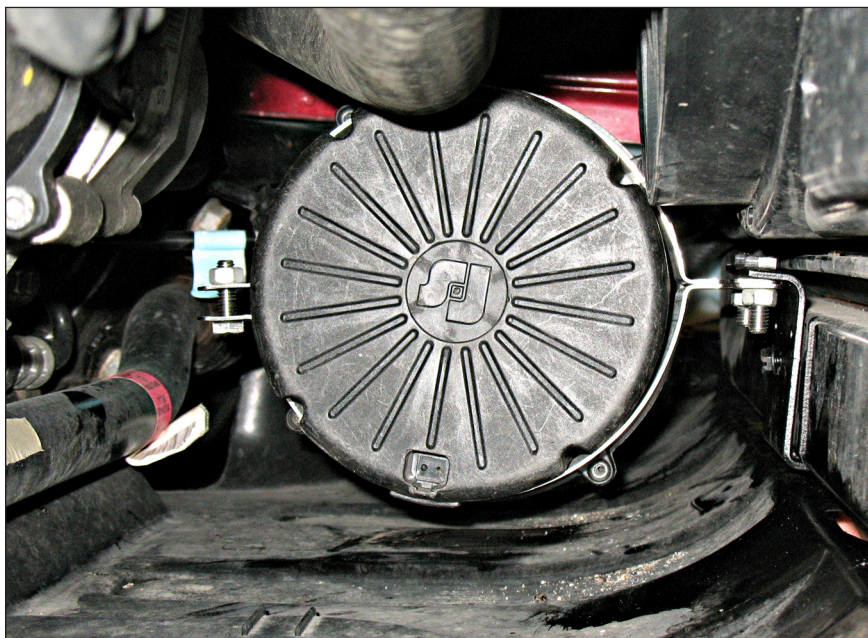
**SOUND HAZARD:** All effective sirens and horns produce loud sounds (120 dB) that may cause permanent hearing loss. Always minimize your exposure to siren sound and wear hearing protection. Do not sound siren indoors or in enclosed areas where you and others will be exposed to the sound.

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

**Figure 5** Passenger-side Rumbler installed



**Figure 6** Driver-side Rumbler installed



## **Getting Technical Support and Service**

Federal Signal Corporation will service your equipment or provide 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 number. The RMA number can be obtained from your local distributor or Federal Signal. Please provide a brief explanation of the service requested or the nature of the malfunction. Contact your local dealer/distributor for replacement parts availability or contact the Federal Signal Service Department (7 a.m. to 5 p.m., Monday through Friday, Central Time) at:

Service Department  
Federal Signal Corporation  
2645 Federal Signal Drive  
University Park, IL 60484-3167  
800-433-9132, 800-343-9706 (fax)

## **Returning a Product to Federal Signal**

Before returning a product to Federal Signal, call 800-264-3578, 800-433-9132, or 800-824-0254 to obtain a Returned Merchandise Authorization number (RMA number). To expedite the process please be prepared with the following information:

- Your Federal Signal customer or account number.
- The purchase order number under which the items were purchased.
- The shipping method.
- The model or part number of the product being returned.
- The quantity of products being returned.
- Drop ship information as needed.
- Any estimate required.

When you receive your RMA Number:

- Write the RMA number on the outside of the box of returned items.
- Reference the RMA number on your paperwork inside of the box.
- Write the RMA number down, so that you can easily check on status of the returned equipment.

Send all material with the issued RMA Number to:

Public Safety Systems  
2645 Federal Signal Drive  
University Park, IL 60484-3167  
Attn: Service Department  
RMA: # \_\_\_\_\_  
800-433-9132  
800-343-9706 (fax)  
www.fedsig.com

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Rumbler is a registered trademark of Federal Signal Corp.