Model 750501-09 Mounting Kit for the Low-Cost Speaker in the 2015 Dodge® Charger

25500219 Rev. A0 0615

Safety Message to Installers of Siren Speakers

A 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. In addition, 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 close to 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 siren sound and wear hearing protection. Do not sound the siren 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 in the product 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.
- 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.
- 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, ensure that the front of the speaker is clear of any obstructions.

Installation Instructions for Low-Cost Speaker in the 2015 Dodge Charger

- Install the speaker(s) as far forward on the vehicle as possible, in a location which provides maximum signaling effectiveness and minimizes the sound reaching the vehicle's occupants. Refer to the National Institute of Justice guide 500-00 for further information.
- Mounting the speakers behind the grille will reduce the sound output and warning effectiveness of the siren system. Before mounting speakers behind the grille, make sure the vehicle operators are trained and understand that this type of installation is less effective for warning others.
- 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.
- 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.
- If a vehicle seat is removed, verify with the vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment.
- 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.

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 and/or reinstalling the product.

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

Introduction

The Model 750501-09 Mounting Kit is intended to be used with the AS124 (Model 750501) Low-Cost Speaker. The kit mounts the speaker in the front bumper of a 2015 Dodge Charger.

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 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).

Qty.DescriptionPart Number1Charger AS124 Bracket8650013121Kit, Hardware85671693#14 HWH Screw3Split Lockwasher, 1/4"

Table 1 Kit contents

Tools Required

- · Center punch
- Hammer
- Drill with 13/64" drill bit
- 3/8" wrench
- 7/16" wrench

Mounting the Speaker on the Top of the Front Bumper

A WARNING

SPEAKER MOUNTING PRECAUTION: To avoid reducing the sound output and damaging the speaker, ensure that the speaker is mounted with the wires protruding from the right side of the speaker as seen from the front.

IMPORTANT: If you are installing a Rumbler system, you must install the Model AS124 on the bottom of the front bumper. See "Mounting the Speaker on the Bottom of the Front Bumper" on page 5.

To mount the speaker on the top of the front bumper:

- 1. Remove the lower stone guard.
- 2. Remove the front fascia.
- **3.** Position the bracket on the top center of the front bumper.
- **4.** Use the bracket as a template to mark the positions of the three mounting holes.
- 5. Remove the bracket and drill a 13/64" hole at each of the marks.
- **6.** See Figure 1 on page 4. Securely fasten the bracket in place with the three 1/4" HWH screws and three split lockwashers.

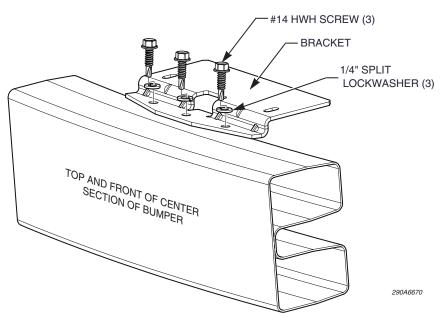
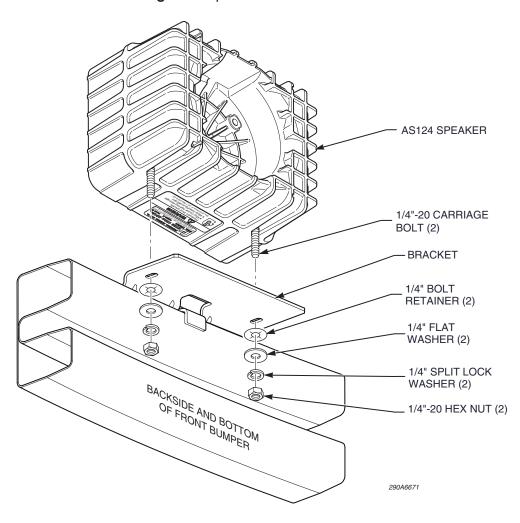


Figure 1 Bracket attached to the top of the front bumper

Figure 2 Speaker attached to bracket



- 7. Insert the two 1/4" carriage bolts into the bottom of the speaker.
- **8.** See Figure 2 on page 4. Place the speaker onto the bracket with the bolts protruding through the slots in the bracket.
- 9. Place the 1/4" hardware on the bolts: the flat washers followed by the split lockwashers and the nuts. Leave the hardware loose enough to allow you to adjust the location of the speaker.
- **10.** Adjust the speaker forward away from the radiator and tighten the nuts.
- 11. Connect the two leads from the speaker to the cable from the electronic siren. For details, refer to the instructions provided with the electronic siren.
- **12.** Test the speakers for proper operation as well as the emergency warning system to ensure that it is operating properly. See the next two sections for warnings and instructions.
- 13. Reinstall the front facia and then the stone guard.

Mounting the Speaker on the Bottom of the Front Bumper

A WARNING

SPEAKER MOUNTING PRECAUTION: To avoid reducing the sound output and damaging the speaker, ensure that the speaker is mounted with the wires protruding from the right side of the speaker as seen from the front

To mount the speaker on the bottom of the front bumper.

- 1. Position the bracket on the bottom center of the front bumper.
- 2. Use the bracket as a template to mark the positions of the three mounting holes.
- 3. Remove the bracket and drill a 13/64" hole at each of the marks.
- 4. Securely fasten the bracket in place with the three 1/4" HWH screws and three split lockwashers.
- 5. Insert the two 1/4" carriage bolts into the top of the speaker.
- 6. Place the speaker onto the bracket with the bolts protruding through the slots in the bracket.
- 7. Place the 1/4" hardware on the bolts: the flat washers followed by the split lockwashers and the nuts. Leave the hardware loose enough to allow you to adjust the location of the speaker.
- **8.** Adjust the speaker forward away from the radiator and tighten the nuts.
- **9.** Connect the two leads from the speaker to the cable from the electronic siren. For details, refer to the instructions provided with the electronic siren.
- **10.** Test the speakers for proper operation as well as the emergency warning system to ensure that it is operating properly. See the next two sections for warnings and instructions.
- 11. Reinstall the front facia and then the stone guard.

Safety Message to Operators of Electronic Sirens and Light/Sound Systems

▲ WARNING

The lives of people depend on your safe operation of Federal products. It is important to read and follow all instructions shipped with the products. In addition, listed below are some other important safety instructions and precautions you should follow:

Qualifications

• To properly use an electronic siren and speaker(s), you must have a good understanding of general vehicle operation, a high proficiency in the use of safety warning equipment, and thorough knowledge of state and federal UNIFORM TRAFFIC CODES.

Sound Hazards

- Your hearing and the hearing of others, in or close to 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 siren sound, roll up your windows and wear hearing protection. Do not sound the siren indoors or in enclosed areas where you and others will be exposed to the sound. Only use the siren for emergency response situations.

Sound Limitations

- Before using the vehicle, check to see if the siren speakers are concealed from view. If the siren speaker is not in clear view on the front of the vehicle, use extra caution when operating the vehicle. A concealed siren speaker installation is less effective at warning others.
- Maximum sound output will be severely reduced if any objects are in front of the speaker. If your installation has obstructions in front of the speaker, drive even more cautiously.
- Frequently inspect the speaker to ensure that it is clear of any obstruction, such as mud or snow, which will reduce maximum sound output.

Signaling Limitations

- Be aware that the use of your visual and audible signaling devices does not give you the right to force your way through traffic. Your emergency lights, siren, and actions are REQUESTING the right-of-way.
- Although your warning system is operating properly, it may not alert everyone. People may not hear, see, or heed your warning signal. You must recognize this fact and continue driving cautiously.
- Situations may occur which obstruct your warning signal when natural or man-made objects are between your vehicle and others. This can also occur when you raise your hood or trunk lid. If these situations occur, be especially careful.

Driving Limitations

• At the start of your shift, you should ensure that the light/sound system is securely attached to the vehicle and operating properly.

- If the unique combination of emergency vehicle equipment installed in your vehicle has resulted in the siren controls being installed in a position that does not allow you to operate them by touch only, OPERATE CONTROLS ONLY WHILE YOUR VEHICLE IS STOPPED.
- If driving conditions require your full attention, you should avoid operating the siren controls while the vehicle is in motion.

Continuing Education

• File these instructions in a safe place and refer to them periodically. Give a copy of these instructions to new recruits and trainees.

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

Testing the Installation

WARNING

SOUND HAZARD: 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 and 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.

▲ WARNING

LIGHT HAZARD: To be an effective warning device, an emergency warning system produces bright light that can be hazardous to your eyesight when viewed at close range. Do not stare directly into the lights at close range or permanent damage to your eyesight may occur.

After the installation, test the emergency warning system to ensure that it is operating properly. Also test all vehicle functions, including horn operation, vehicle safety functions, and vehicle lighting systems to ensure proper operation. Ensure that the installation has not affected the vehicle operation or changed any vehicle safety functions or circuits. After testing is complete, provide a copy of these instructions to the instructional staff and all operating personnel.

Do not test the sound and light system of the vehicle while driving. Operating the vehicle warning systems may pose a hazard to the operator and other drivers if the systems do not function as expected. Test the vehicle only in a controlled environment.

Getting Technical Support and Service

This speaker has no field-serviceable parts. Opening the speaker will void the warranty. The factory can and will service your speaker. If you are experiencing any problems with the speaker, please contact:

Service Department

Federal Signal Corporation Phone: 1-800-433-9132 Fax: 1-800-343-9706

Email: empserviceinfo@fedsig.com

Ordering Replacement Parts

To order replacement parts for the mounting system, please contact your local dealer/distributor or:

Customer Support Federal Signal Corporation Phone: 1-800-264-3578

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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