



FEDERAL SIGNAL
Safety and Security Systems

Model ESBL2-TAH21ND and ESB2-TAH21ND Mounting Kits

Installation Instructions

25500687

Rev. B0 0721

Printed in U.S.A.

© Copyright 2020-2021 Federal Signal Corporation

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. 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 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.



FEDERAL SIGNAL
Safety and Security Systems

2645 Federal Signal Drive
University Park, Illinois 60484-3167

www.fedsig.com

Customer Support

Police/Fire-EMS: 800-264-3578 • +1 708 534-3400

Work Truck: 800-824-0254 • +1 708 534-3400

Technical Support 800-433-9132 • +1 708 534-3400

All product names or trademarks are properties of their respective owners.

Contents

Safety Messages	4
Mounting Bracket for ES100C and IMPAXX®, MicroPulse® Lights	5
Unpacking the Kit	5
Installing the Brackets	6
Installing the ESBL2-TAH21ND Bracket.....	6
Installing the ESB2-TAH21ND Bracket.....	8
Getting Technical Support and Service	10
Getting Repair Service	10
Ordering Replacement Parts	11

Tables

Table 1 Model ESBL2-TAH21ND Mounting Kit	5
Table 2 Model ESB2-TAH21ND Mounting Kit	6

Figures

Figure 1 Insert Bracket Assembly	7
Figure 2 ESBL2-TAH21ND Bracket	7
Figure 3 ESB2-TAH21ND Bracket	9

Safety Messages

To Installers and Operators of Warning Light Equipment

WARNING

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

- To properly install the lighting and siren systems, you must have a good understanding of automotive systems, along with proficiency in the installation and use of safety warning equipment.
- Do not install equipment or route wiring in the deployment path of an airbag.
- If a vehicle seat is temporarily removed, verify with the vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment.
- Frequently inspect the light and siren systems to ensure that it is operating properly and that it is securely attached to the vehicle.
- When drilling into a vehicle structure, ensure that both sides of the surface are clear of anything that could be damaged.
- Refer to the instructions packed with related products for additional precautions and information.
- Do not stare directly into the lights at a close range, or permanent damage to your eyesight may occur.
- 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 and horn indoors or in enclosed areas where you and others will be exposed to the sound.
- 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.

Mounting Bracket for ES100C and IMPAXX®, MicroPulse® Lights

This publication has instructions for using the Model ESB2-TAH21ND bracket kit to mount the ES100C, or Model ESBL2-TAH21ND bracket kit to mount the ES100C and/or IMPAXX IPX600B, IPX300 or MicroPulse MPS600, MPS600U, MPS1200, MPS1200U, and MPSW9 lights in the grille of the 2021 Tahoe.

NOTE: For electrical installation instructions, refer to the Installation and Maintenance Instructions included with the siren and light head.

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 Table 1 or 2 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 Model ESBL2-TAH21ND Mounting Kit

Qty	Description	Part Number
1	2021 Tahoe Dual Bracket ES100C	856703403
2	2021 Tahoe Light Head Bracket	856703404
4	6-32 Stainless Steel Pan Head Phillips Machine Screw	7000491-08
4	6-32 Stainless Steel Hex Head External Keps® Nut	7058A046
4	1-inch 5/16-18 Hex Head Stainless Steel Bolt	7002A005-16
4	5/16-inch Stainless Steel Flat Washer	7072A031
1	1/4-20 Stainless Steel Carriage Bolt	7004A020-24
1	1/4-20 Stainless Steel Hex Head External Keps Nut	7058050
1	1/4 Stainless Steel Flat Washer	7072A024

Installing the Brackets

Table 2 Model ESB2-TAH21ND Mounting Kit

Qty	Description	Part Number
1	ES100C, 2021 Tahoe ESC100 Dual Bracket	856703403
1	1/4-20 Stainless Steel Carriage Bolt	7004A020-24
1	1/4-20 Stainless Steel Hex Head External Keps® Nut	7058050
1	1/4 Stainless Steel Flat Washer	7072A024

Installing the Brackets

⚠ WARNING

AIRBAG DEPLOYMENT: Do not install equipment or route wiring in the deployment path of an airbag. Failure to observe this warning will reduce the effectiveness of the airbag or potentially dislodge the equipment, causing serious injury or death.

NOTICE

DRILLING PRECAUTION: When drilling holes, check the area you are drilling into to be sure you do not damage vehicle components. All drilled holes should be deburred, 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.

IMPORTANT: Plan all cable routing before the installation.

NOTICE

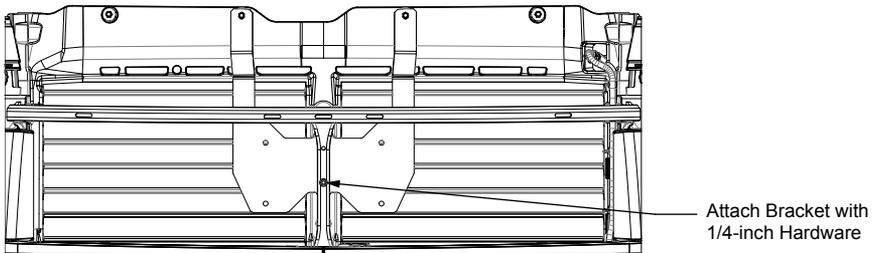
THREAD DAMAGE AND GALLING: To prevent thread damage and galling, use anti-seize lubricant on all stainless steel fasteners

Installing the ESBL2-TAH21ND Bracket

To install the speaker and lights:

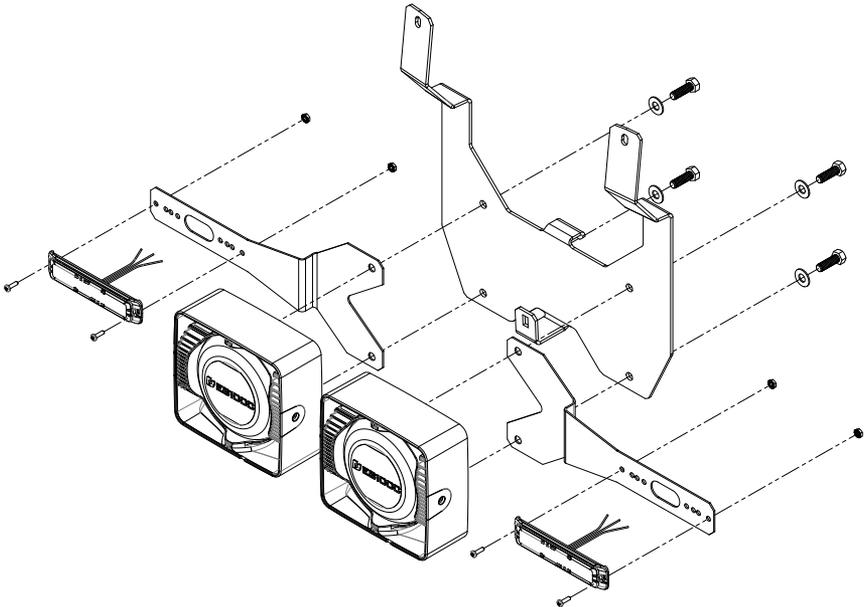
1. Remove the vehicle front fascia according to the vehicle manufacturer's instructions.
2. Install the speaker bracket to bolts on the vehicle as shown in Figure 1.

Figure 1 Insert Bracket Assembly



3. Install the 1/4-inch carriage bolt through the carriage bolt slot on the bracket and through the slot on the vehicle fascia structure. Secure the bolt using the 1/4-inch flat washer and Keps® nut.
4. Install the speakers to the speaker bracket and light head brackets using the 5/16-inch hardware supplied with this kit. The light head brackets should go between the speakers and speaker bracket. See Figure 2.

Figure 2 ESBL2-TAH21ND Bracket



5. Install the light heads to the speaker brackets using the 6-32 screws and Keps® nuts supplied with this kit.

Installing the Brackets

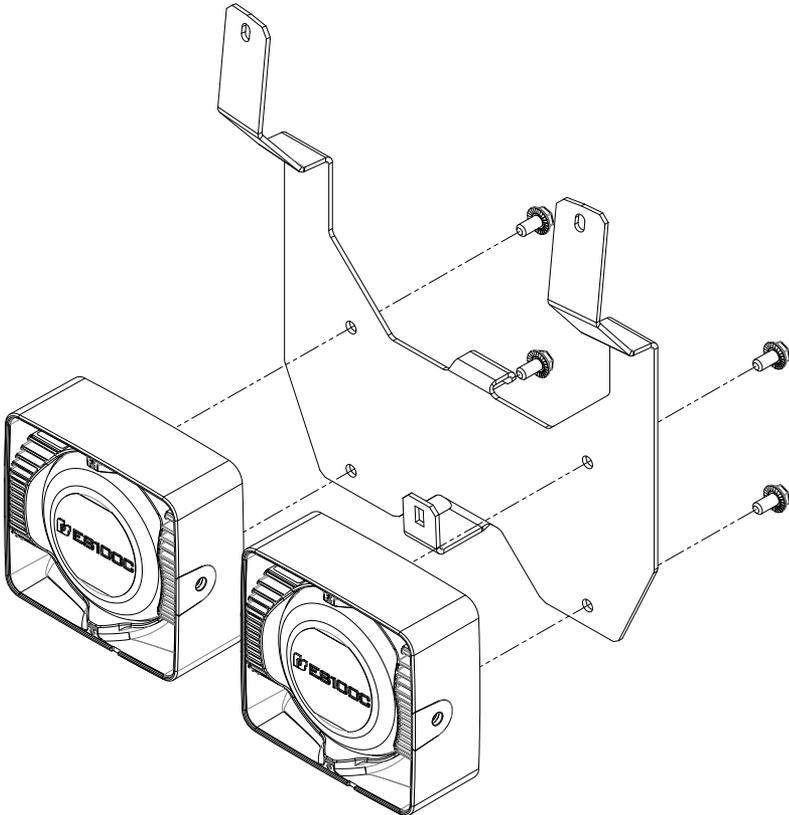
6. Complete the wiring as indicated by the speaker and light head instruction manuals.
7. Install the front fascia according to the vehicle manufacturer's instructions.
8. Test the lights and speakers for proper operation.

Installing the ESB2-TAH21ND Bracket

To install the speaker and lights:

1. Remove the vehicle front fascia according to the vehicle manufacturer's instructions.
2. Install the speaker bracket to bolts on the vehicle as shown in Figure 1 on page 7.
3. Install the 1/4-inch carriage bolt through the carriage bolt slot on the bracket and through the slot on the vehicle fascia structure. Secure the bolt using the 1/4-inch flat washer and Keps® nut.
4. Install the speakers to the speaker bracket using the hardware supplied with the speaker. See Figure 3

Figure 3 ESB2-TAH21ND Bracket



5. Complete the wiring as indicated by the speaker instruction manual.
6. Install the front fascia according to the vehicle manufacturer's instructions.

⚠ 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 sounds and wear hearing protection. Do not sound the siren indoors or in enclosed areas where you and others will be exposed to the sound.

7. Test the speakers for proper operation.

Getting Repair Service

Getting Technical Support and Service

For technical support and service, please contact:

Service Department
Federal Signal Corporation
Phone: 1-800-433-9132
Email: empserviceinfo@fedsig.com
www.fedsig.com

Getting Repair Service

The Federal Signal factory provides technical assistance with any problems that cannot be handled locally.

Any units 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 Drive
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.



FEDERAL SIGNAL
Safety and Security Systems

2645 Federal Signal Drive
University Park, Illinois 60484

www.fedsig.com

Customer Support

Police/Fire-EMS: 800-264-3578 • +1 708 534-3400

Work Truck: 800-824-0254 • +1 708 534-3400

Technical Support 800-433-9132 • +1 708 534-3400