

25500632 Rev. A0 0320

**Safety Message to Installers and Service Personnel  
of Emergency Vehicle Safety Equipment****⚠ 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. Listed below are some other important safety instructions and precautions you should follow:

**Before Installation or Service***Qualifications*

- To properly install or service this equipment, 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 service manuals when installing equipment on a vehicle.

*Electrical Hazards*

- Never attempt to install aftermarket equipment that connects to the vehicle wiring without reviewing a vehicle wiring diagram available from the vehicle manufacturer. Ensure that your installation will not affect vehicle operation and safety functions or circuits.

**During Installation or Service**

- To avoid a battery explosion, always disconnect the negative battery cable first and reconnect it last. Avoid a spark when connecting near or to the battery. The gasses produced by a battery can cause a battery explosion that could result in vehicle damage and serious injury.
- Do not install equipment or route wiring or a plug-in cord in the deployment path of an airbag.
- Before mounting any components, check the manual to be sure that the component you are installing is suitable for use in that area of the vehicle. Many components are not suitable for use in the engine compartment or in other areas subject to extreme environmental exposure.
- When drilling into a vehicle structure, be sure that both sides of the surface are clear of anything that could be damaged. Remove all burrs from drilled holes to prevent electrical shorts, grommet all drilled holes through which wiring passes. Also ensure that mounting screws do not cause electrical or mechanical damage to the vehicle.

**After Installation or Service**

- If a vehicle seat is temporarily removed, verify with vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment.
- To ensure proper operation, test all vehicle functions, including horn operation, vehicle safety functions, and vehicle light systems. Ensure that installation has not affected vehicle operation or changed any vehicle safety function or circuit.
- After installation and testing are complete, provide a copy of these instructions to 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.

## 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.

**Failure to identify damage before installation could lead to rejection of any claim.** 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 Federal Signal Customer Support at 1-800-264-3578, 7 a.m. to 5 p.m., Monday through Friday (CT).

**Table 1 Kit contents and tools needed (See Figure 1)**

Item	Qty.	Description	Tools Needed
1	1	Driver Wing Wrap	18 mm Wrench
2	1	Passenger Wing Wrap	15 mm Wrench
3	2	M12 Button Head Bolt Long	10 mm Wrench
4	4	M12 Button Head Bolt Short	13 mm Wrench
5	6	M12 Flange Nut	4 mm Allen Wrench
6	6	M12 Belleville® Washer	5 mm Allen Wrench
7	2	M6 Button Head Bolt	6 mm Allen Wrench
8	2	M6 Flange Nut	8 mm Allen Wrench
9	2	M6 Flat Washer	Ratchet
10	2	M8 Button Head Bolt	Torque Wrench
11	2	M8 Flange Nut	
12	2	M8 Belleville Washer	

**⚠ WARNING**

**PUSH BUMPER PRECAUTION:** *Installing a push bumper on a vehicle may raise the vehicle's minimum collision speed for airbag deployment. It is imperative that police officers wear safety belts when operating the motor vehicle. Failure to follow this warning may cause serious injury or death.*

**NOTICE**

**THREAD DAMAGE AND GALLING:** *Use anti-seize lubricant on all stainless steel fasteners to prevent thread damage and galling.*

To install the wing wrap:

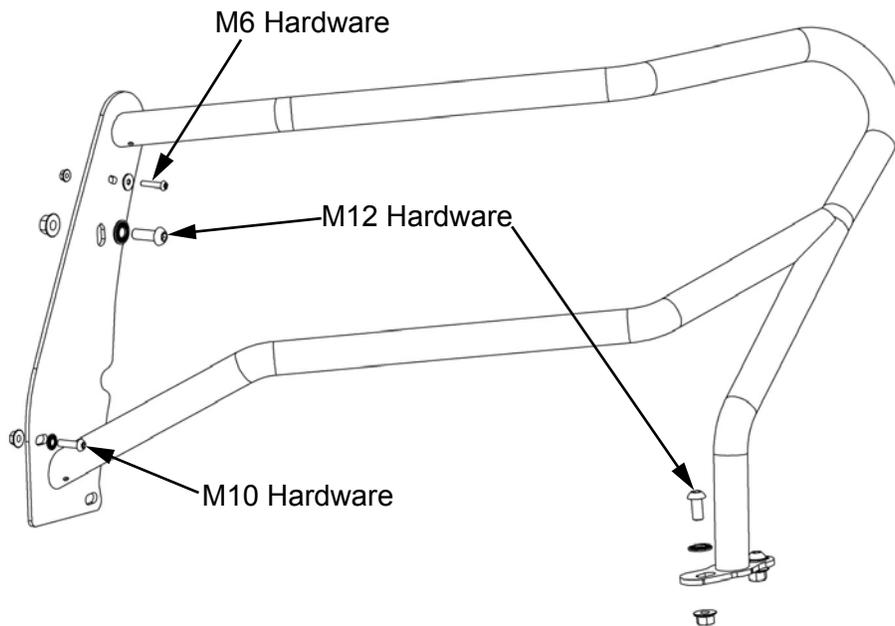
1. Install the police push bumper (PBX07) and pit bar sets (PBX-PIT07) to the front of the vehicle. Refer to 25500630 and 25500631.

**NOTE:** The pit bar set is necessary to properly install the wing wraps.

2. One side at a time, use the supplied M12, M8 and M6 hardware to loosely install each wing wrap to the push bumper uprights. See Figure 1.
3. Use the supplied M12 hardware to loosely attach the foot of each wing to the upper rail of each pit bar.

**NOTE:** The lower rearmost M10 bolt hole will be used by the bolt that is already attached to the push bar bracket.

Figure 1



4. Align and adjust the wing wraps as necessary, and then tighten and torque all fasteners as follows:

- M6 to 7-9 ft-lb
- M8 to 24-28 ft-lb
- M12 to 50-55 ft-lb

Figure 2



## **Maintaining the Wing Wrap**

Regularly clean stainless steel and gloss black finishes with a mild soap and water. Apply a non-abrasive wax or polish. To polish small scratches on stainless steel, use stainless steel polish. To avoid making scratches on the stainless steel surfaces, follow the grain of the steel while polishing.

## **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 a 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

## **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.



**FEDERAL SIGNAL**  
Safety and Security Systems

2645 Federal Signal Drive  
University Park, Illinois 60484-3167

[www.fedsig.com](http://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

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