

25500706 Rev A2 0322

Safety Message to Installers and Operators of Warning Lights

⚠ 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 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 ensure 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, ensure that both sides of the surface are clear of anything that could be damaged. Remove all burrs from drilled holes to prevent electrical shorts, and grommet all drilled holes through which wiring passes. 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 the 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.

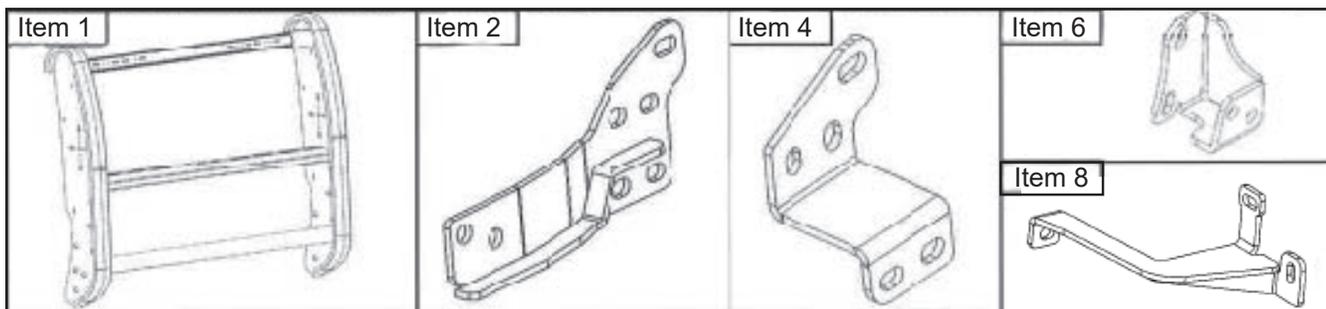
Unpacking the Kit

After unpacking the product, inspect it for damage that may have occurred in transit. If it has been damaged or is missing a part, 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 all parts in Table 1 have been included. 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).

Installing the PBX08 Push Bumper on the 2021 Chevrolet® Tahoe® Police Pursuit Vehicle

Table 1 Kit contents

Item	Qty	Description	Tools Needed
1	1	Push Bar	Ratchet
2	1	Driver Bracket	15 mm Wrench
3	1	Passenger Bracket	15 mm Wrench
4	1	Driver Clamp Bracket	10 mm Socket
5	1	Passenger Clamp Bracket	7 mm Socket
6	1	Driver Extension Bracket	T15 Torx Bit
7	1	Passenger Extension Bracket	8 mm Allen Wrench
8	1	Driver Upper Bracket	6 mm Allen Wrench
9	1	Passenger Upper Bracket	Ratchet
10	2	M10 Button Head Bolt	Ratchet Ext.
11	2	M10 Bellville Washer	Torque Wrench
12	2	M10 Serrated Flange Hex Nut	Hammer
13	10	M12 Button Head Bolt	Utility Knife
14	10	M12 Bellville Washer	Pry Tool
15	10	M12 Serrated Flange Hex Nut	
16	4	M12 Hex Head Bolt - Long	
17	6	M12 Hex Head Bolt - Short	
18	10	M12 Serrated Flange Nut - Yellow	
19	10	M12 Flat Washer	
20	1	Driver Template	
21	1	Passenger Template	



⚠ 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 their motor vehicles. Failure to follow this warning may cause serious injury or death.

NOTICE

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

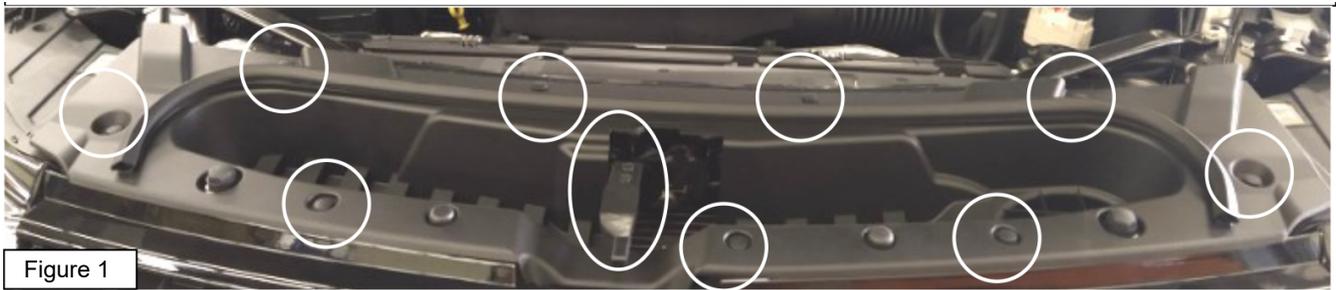
Installing the Push Bumper

Follow these steps to remove the entire front grille and fascia from the front of the vehicle. There are a number of plastic fasteners and metal screws holding it on. Care should be taken not to damage the fascia as it is removed.

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To install the push bumper:

1. Open the hood and remove the nine plastic rivets and the two screws with the plastic hood release handle (Figure 1). Remove the top plastic cover, and then remove the screws holding the grille. See Figure 2.
2. Remove the screws located under the fenders that hold the front fascia. See Figure 3. Carefully pull the fender trim. Remove all the screws under the vehicle to loosen the bottom part of the fascia. See Figures 4 and 5.
3. On a civilian vehicle (not Z71), remove the bolt behind the bumper under the chassis on each side of the vehicle. See Figure 6.
4. Remove the screw under each side of the fenders. See Figures 7 and 8.



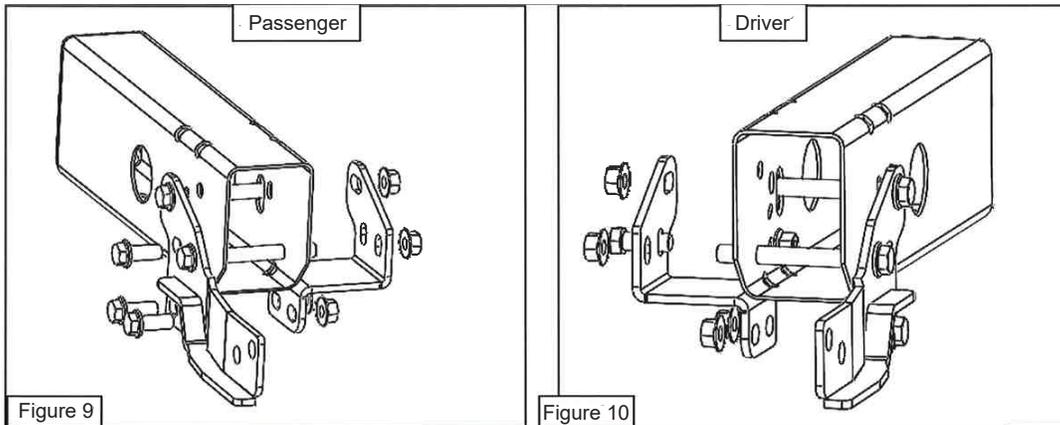
5. With help, disconnect any connection from the fascia to the vehicle and carefully disengage the whole front fascia.
6. Pull the plastic cover on top of the internal bumper and from the radiator support and discard it.
7. If the vehicle is equipped with tow hooks, remove them and save them with their hardware to be reused with the mounting brackets installation in the following step.
8. Install the driver (Item 2) and passenger (Item 3) brackets to the chassis using the clamp brackets (Items 4 and 5), four long M12 hex bolts (Item 16), six short M12 hex bolts (Item 17), ten M12 flat washers (Item 19), and ten M12 flange nuts (Item 18). Reuse the factory bolt with the outer clamp bracket. Leave them loose for now. See Figures 9 and 10.

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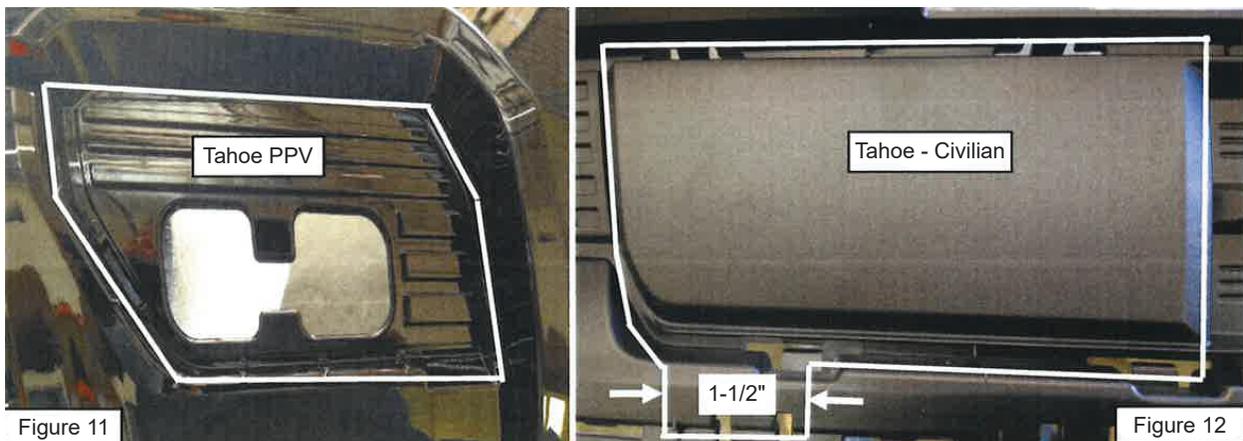
NOTE: Chassis mount holes are not mirrored to each other. Refer to Figures 9 and 10.

9. Tighten the M12 hardware to 50-55 ft-lb. Do not install upper mounting brackets yet.

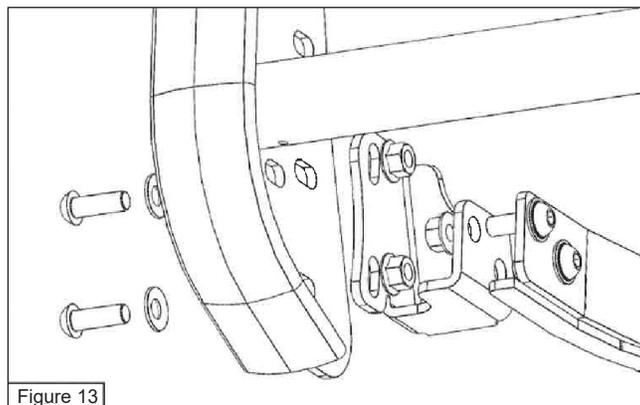
NOTE: If you are also installing the Pit Bar, refer to Doc Part No. 25500707.



10. Before installing the front fascia, trim the lower grille slots as shown in the images below. Figure 11 is for the police vehicle, and Figure 12 is for the civilian vehicle.

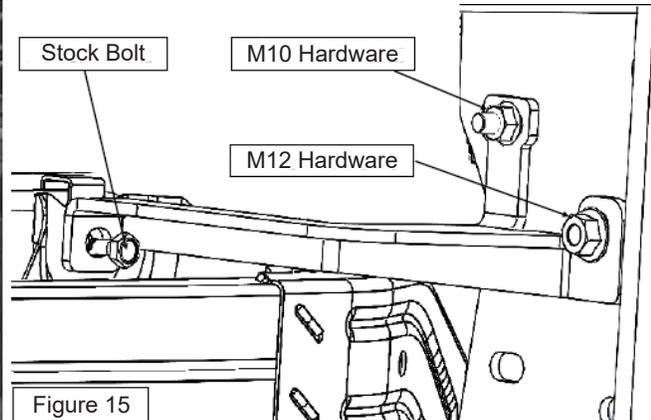
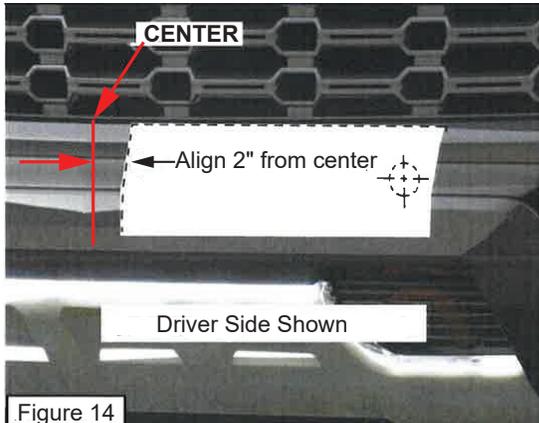


11. Reinstall the front fascia.
12. Install the extension brackets (Items 6 and 7) using M12 button head bolts (Item 13), M12 Bellville washer (Item 14), and M12 serrated flange nut (Item 15). Leave the hardware loose for now. See Figure 13.
13. Install the push bumper (Item 1) using M12 button head bolts (Item 13), M12 Bellville washers (Item 14), and M12 serrated flange nuts (Item 15). Slightly tighten the hardware for now to secure the push bumper. See Figure 13.



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- Using the provided templates (Items 20 and 21), cut at the dotted lines and place the indicated side at 2 inches from the center of the fascia and the top edge at the lower edge of the grille. Carefully drill a 2-inch hole at each side of the fascia. Carefully clean the hole edges. See Figure 14.
- Remove the stock bolt shown in Figure 15 and save it to be used in the next step.
- Place the upper brackets into the holes and install them using the previously removed bolts. Leave them loose for now. See Figure 15.
- Install the upper brackets (Items 8 and 9) to the push bumper using the M10 hardware (Items 10, 11, and 12). See Figure 15.



- Align and adjust the Push Bumper as necessary. Tighten all remaining fasteners M12 to 50-55 ft-lb, M10 to 30-35 ft-lb.

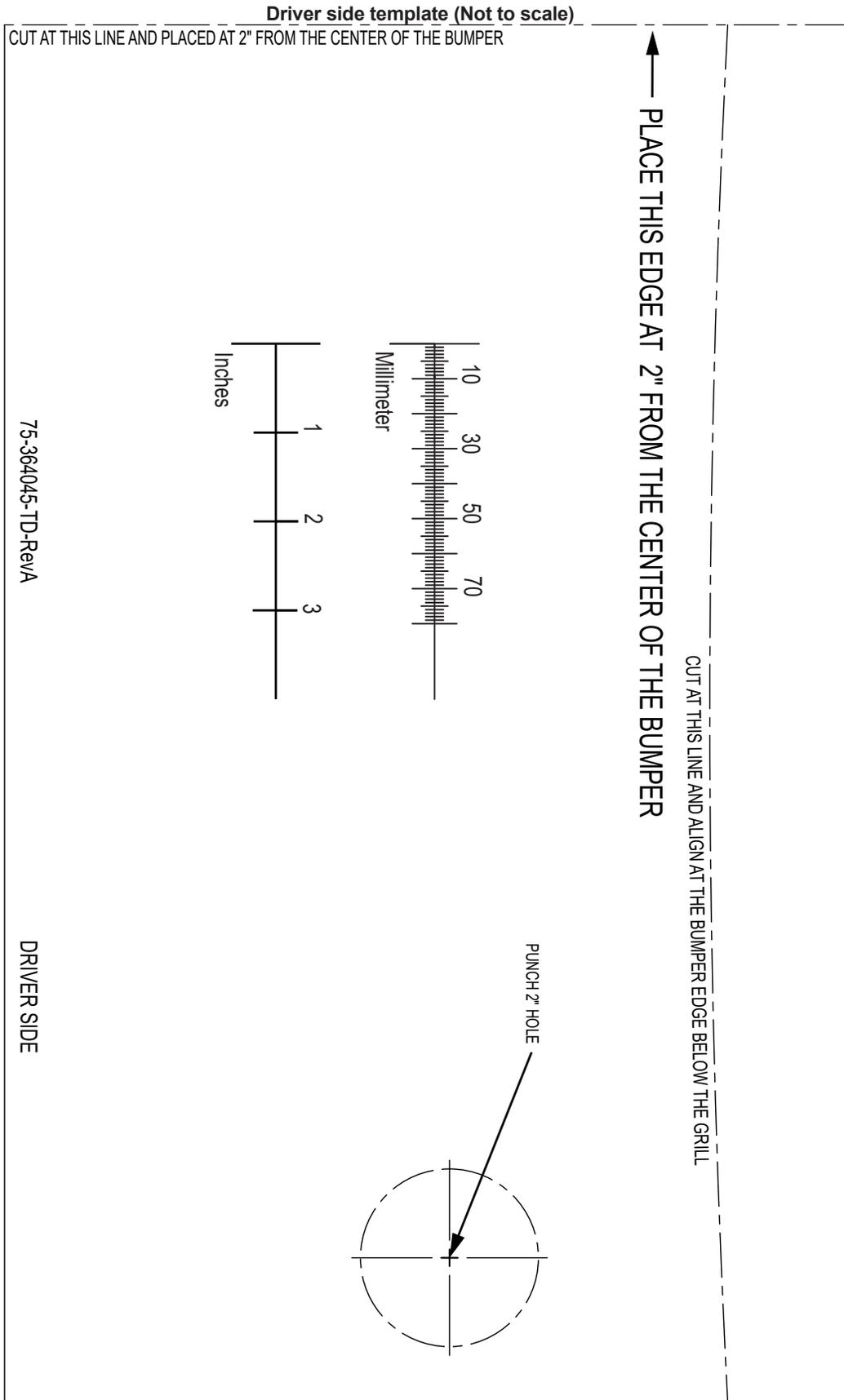


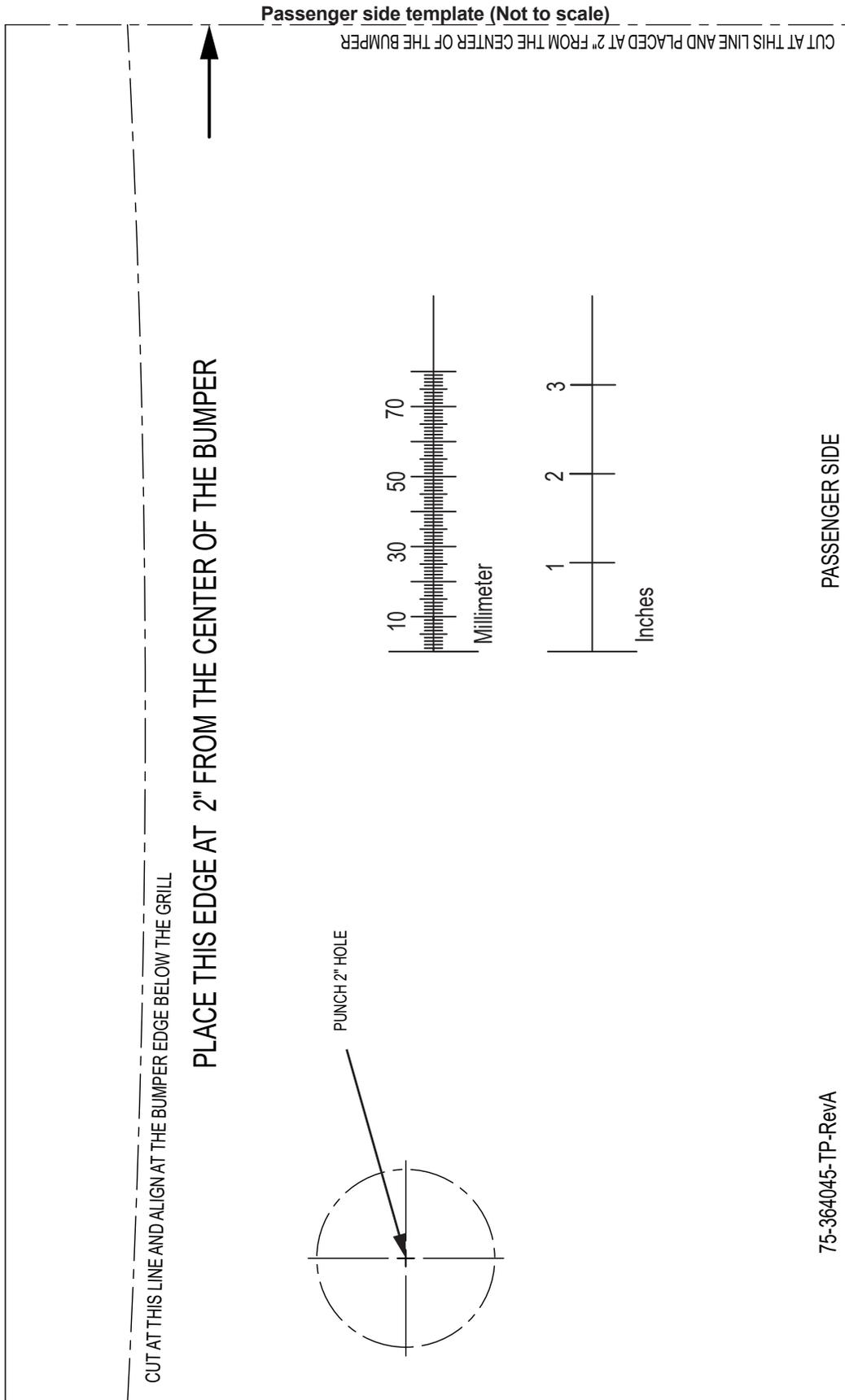
Pit Bars PBX-PIT08 and Wing Wraps PBXW-TAH21 Sold Separately

Maintaining the Push Bar Assembly

Regularly clean stainless steel and gloss black finishes with 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.

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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

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

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.



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