



**LEAVE YOUR MARK
ON THE WORLD
NOT YOUR FLOOR.**

MINIMIZER FLOOR MATS

• **TESTED AND TORTURED™** •
DAILY BY TRUCKERS FOR TRUCKERS



WARRANTY

Minimizer Floor Mats are backed by a Lifetime Manufacturer's Warranty and are guaranteed against flaws due to faulty materials and/or unintended production variations. This warranty extends only to the original purchaser and excludes damage caused by abnormal use or conditions, including but not limited to extreme abrasive conditions and/or excessive exposure to chemicals such as bleach, gasoline and other fuels.

Disclaimer: Minimizer custom molded floor mats are not Freightliner, Western Star, and Sterling goods and FREIGHTLINER, WESTERN STAR, and STERLING are federally registered marks of Daimler Trucks North America.



Minimizer®

MINIMIZER PRODUCTS

• **TESTED AND TORTURED™** •
DAILY BY TRUCKERS FOR TRUCKERS

Since inventing the poly fender back in 1984, Minimizer™ has grown from a one-product company into the leader in heavy duty aftermarket parts. Boasting an array of Tested & Tortured™ products, from Custom Molded Floor Mats to the Long Haul Series™ Truck Seat and Mattress, our goal is to #RespectTheDriver. We do this by stamping premium products with our standard Lifetime Warranty. The Minimizer logo means it is built to last, and sends a very clear message to your customers and competitors that you're well-equipped to handle even the harshest conditions in one of the toughest industries.



500 Minimizer Way, Blooming Prairie, MN 55917
800.248.3855 • Fax: 507.583.7540
www.minimizer.com

IMPORTANT SAFETY INFORMATION

READ BEFORE INSTALLING OR USING MINIMIZER FLOOR MATS

103082, 103083, 103084, 103085, AND 103086 ARE COMPATIBLE WITH THE FOLLOWING WESTERN STAR MODELS:

- 103082 is compatible with Western Star 4900EX 2016-2020
- 103083 is compatible with Western Star 4700SB, 4700SF (Cummins engine, driver side electric tray) 2016-2020
- 103084 is compatible with Western Star 5700EX, 4700SB, 4700SF (Cummins engine, NO driver side electric tray), 4900SB, 4900SF 2016-2020
- 103085 is compatible with Western Star 4700SB, 4700SF (DD13 engine and driver side electrical tray) 2016-2020
- 103086 is compatible with Western Star 4700SB, 4700SF, 4700SF (DD13 engine, NO driver side electric tray), 4800SB, 4800SF, 4800TS 2016-2020

* Floor mats listed above are only compatible with trucks that have the throttle pedal mechanism mounted to the fire wall. Select 2016 models or may be equipped with a floor mounted throttle pedal. (Pictured inside)

Safety Instructions for Installation

- Use only with the specified vehicle make, model and year.
- Do not install on top of other floor mats.
- Install each floor mat with the Minimizer logo facing up.
- Use each floor mat only in its proper location in the vehicle.
- Install and use a retention hook for the driver side floor mat.
- Make sure that the floor mats fit properly in your vehicle floor space.
- Do not place additional floor mats on top of the Minimizer floor mats.
- Carefully follow each of the Installation Instructions for Minimizer Floor Mats on the following pages.

Safety Instructions for Vehicle Operation

- Before starting or operating the vehicle, verify that the Minimizer floor mats are installed correctly, that the driver side mat is secured by a retention hook, and that the driver side mat does not interfere with the accelerator, brake, or clutch pedal.
- Make sure there are no loose objects in the vehicle that could possibly interfere with the operation of the accelerator, brake, or clutch pedal.
- If your Minimizer floor mat becomes loose, stop the vehicle at the next safe location. Re-install the floor mat properly and securely. If that is not possible, remove the floor mat and place it in a location where it will not interfere with safe operation of the vehicle.
- Inform all drivers of these warnings before allowing them to operate a vehicle equipped with Minimizer floor mats.

If you have questions about these instructions or proper installation of your Minimizer floor mats, please contact Minimizer at (800) 248-3855.

Minimizer floor mats are specifically designed for certain vehicles and may be used safely only with those vehicles. **VERIFY THAT THE MAKE, MODEL, AND YEAR OF THE VEHICLE IN WHICH YOU ARE INSTALLING THE FLOOR MATS IS IDENTIFIED ON PAGE 1 AS BEING COMPATIBLE WITH THE MINIMIZER FLOOR MATS YOU HAVE SELECTED.**



Minimizer®

Item # 104162

August 2019

Figure 1 - Fire Wall Mounted Throttle Pedal Mechanism



Figure 2 - Floor Mounted Throttle Pedal Mechanism



WESTERN STAR FLOOR MAT KIT SPECIFICATIONS:

• Kit 103082 shown in Figure 3 is compatible with Western Star Model 4900EX 2016-2019.

Figure 3 - Kit 103082 Contents



• Kit 103083 shown in Figure 4 is compatible with Western Star 4700SB and 4700SF trucks equipped with a Cummins Engine and driver side electrical tray 2016-2019.

Figure 4 - Kit 103083 Contents



• Kit 103084 shown in Figure 5 is compatible with Western Star 5700XE 2016-2018 and Western Star 4700SB and 4700SF trucks equipped with a Cummins Engine and no driver side electrical tray 2016-2019. See figure 6 below for description of electrical tray.

Figure 5 - Kit 103084 Contents



Figure 6 - Driver Side Electrical Tray



• Kit 103085 shown in Figure 7 is compatible with Western Star 4700SB and 4700SF trucks equipped with a DD13 Engine and driver side electrical tray 2016-2019.

Figure 7 - Kit 103085 Contents



• Kit 103086 shown in Figure 8 is compatible with Western Star 4700SB and 4700SF trucks equipped with a DD13 Engine and no driver side electrical tray 2016-2019.

Figure 8 - Kit 103086 Contents



INSTALLATION INSTRUCTIONS:

1. Remove other floor mats from the vehicle before installing Minimizer floor mats.
2. Install the Minimizer floor mats right side up, with the Minimizer logo visible.
3. Each Minimizer floor mat is contoured to fit a particular location in the vehicle and may be used safely only in that location.
4. The Minimizer floor mat package contains one driver side mat and one passenger side mat.
5. Position the driver mat in the truck as shown in Figure 9. The driver mat must be pushed all the way forward so the front lip is making full contact with the doghouse trim panel and fire wall.

Figure 9 - Driver Mat in Position



Notes: The driver mat is designed to fit several common OEM seat bases. Truck seats that are equipped with a large rubber boot around the seat suspension (as shown in Figure 10) will require hand trimming at the time of installation. Some other aftermarket seats may also require hand trimming for proper fit. There is a raised rib molded into the driver mat to use as a trim guide and to contain liquid. Use a sharp utility knife to trim the mat as shown in Figure 11.

Figure 10 - Large Rubber Boot around Seat Suspension



Figure 11 - Hand Trimming for Seat with Rubber Boot



6. Inside the package with the installation instructions, locate two black plastic retention hooks and a white tube of Primer 94 as shown in Figure 12.

Figure 12 - Retention Hooks and Primer 94



7. Insert a hook up through the hole in the right rear corner of the driver side floor mat. The hook should fit flush with the underside of the floor mat.

8. Once the hook is in place, let the driver mat and hook rest on the floor as shown in Figure 13. Next, confirm that the mat is not interfering with foot pedals and verify it is making proper contact with the surfaces surrounding the floor.

Figure 13 - Driver Mat Hook in Position



9. Mark the approximate position where the hook needs to be attached to the floor. Once the position is located, remove the driver mat from the truck.

10. Activate the tube of Primer 94 by crushing the tube at the black dot.

11. Clean all dirt or debris off the truck floor and apply Primer 94 to the truck floor area where the hook will be attached.

12. Allow the Primer 94 to dry on the truck floor for five minutes.

13. Install the driver mat in the truck with the hook inserted. Next, peel away the paper backing from the hook.

14. While holding onto neck of the hook, lower the driver mat into position and stick the hook to the floor. Apply firm pressure to the hook as shown in Figure 14 for 30 seconds to ensure a proper bond to the rubber floor.

Figure 14 - Apply Pressure to Hook



15. Position the passenger floor mat in the truck. Make sure the passenger mat is pushed all the way forward so the outside lip makes full contact with the doghouse trim panel and fire wall as shown in Figure 15.

Figure 15 - Passenger Mat in Position



Note: The passenger floor mat is designed to accommodate both fixed seats and suspension seats. Trucks that are equipped with a fixed base passenger seat as shown in Figure 10 will need to be hand trimmed prior to installation. See figure 16 below that shows the green and orange shaded areas. Aftermarket seats may also require hand trimming. There are two raised ribs molded into the passenger mat to act as trim guides. To confirm which line to trim along test fit the mat against the seat base. Use a sharp utility knife to trim along the outside edge of the rib. Preserve the rib for liquid containment.

Figure 16 - Passenger Mat Trimming Diagram

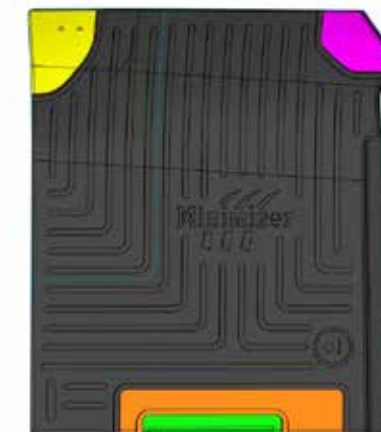


Figure 17 - Fixed Base Passenger Seat with Trimmed Mat



16. Use the same process listed in steps 7-14 above to attach the passenger mat retention hook to the floor. For trucks with carpeted floors install the hook to interior trim at the right front corner of the passenger side. There is a small oval shaped trim line visible on the outside perimeter of the mat where the hook opening should be trimmed. Follow the same basic steps to prime the steel surface and attach the hook to the cab.

17. Confirm that the retention hook is fully engaged into the driver mat and that the hook is adhered to the floor. If the driver mat retention hook is not functioning properly or the mat cannot be securely installed, do not use a Minimizer floor mat on the driver side of the vehicle.

18. FAILURE TO PROPERLY INSTALL THE RETENTION HOOK FOR THE DRIVER SIDE FLOOR MAT MAY ALLOW THE MAT TO SHIFT, WHICH MAY INTERFERE WITH PROPER FUNCTIONING OF THE VEHICLE'S PEDALS, POTENTIALLY RESULTING IN LOSS OF CONTROL OF THE VEHICLE AND SERIOUS INJURY OR DEATH.

19. Move the accelerator, brake, and clutch pedals through their full range of motion to confirm there is no interference with the Minimizer floor mat.

20. Confirm that the hook is fully engaged into the passenger mat and that the hook is adhered to the floor.

21. Prior to operating the vehicle, read the Safety Instructions for Vehicle Operation.

22. FAILURE TO CORRECTLY INSTALL AND USE YOUR MINIMIZER FLOOR MATS ACCORDING TO THE INSTRUCTIONS ABOVE COULD PREVENT PROPER FUNCTIONING OF THE VEHICLE'S PEDALS, POTENTIALLY RESULTING IN LOSS OF CONTROL OF THE VEHICLE AND SERIOUS INJURY OR DEATH.

