



2007-11 & 2012+ 3500 SPRINTER — OVER-THE-LUG MOUNTING SYSTEM INSTRUCTIONS FOR FRONT 16" SIMULATORS

**VERY IMPORTANT! Read And Understand These Steps Before Installation.**

**NOTE: Your product design may vary from the photos shown. However installation and mounting will be the same.**

**Note 1:** Front Wheel Simulator Installation Instructions apply to both 2007-2011 and 2012+ styles of Sprinter wheels.

**Note 2:** Over-Lug-Mounting — No need to remove lug nuts to install.

**Step 1. Installing Front Wheel Simulator**

If your Sprinter has factory black plastic hubcaps, you'll need to remove them. With a 19mm lug wrench, remove **only** the three lug nuts with washers that secure the plastic hubcap. Once the plastic hubcap is removed, securely re-install the lug nuts that were removed from the wheel and tighten to 140 ft lbs. (See Fig. 1A)

Line up the mounting hooks on the back of the wheel simulator with the oval hand holes of the wheel. (See Fig. 1B). (**Note for 2007-2011 Models:** It is recommended not to use the oval hole by the valve stem for the mounting hooks.) Then gently push the wheel simulator against the wheel until one of the hooks engage into one of the wheel hand holes. (See Fig. 1C, 1D & 1E). Then continue one at a time engaging each hook into the other hand holes. **Note:** You may have to loosen the Phillips head screws a little before all the hooks will engage.

**Step 2. Proper Engagement And Tightening**

Make sure all the hooks have engaged into the proper hand holes of the wheel. Next, begin alternating tightening each Phillips head screw a few turns. **Very Important:** Look into the holes of the simulator where the hooks are and see that the hooks are engaged onto the center portion of the wheel oval hand holes for 2007-2011 models or centered in the circular holes for the 2012+ models. Next, carefully feel with your fingers through the holes in the simulator, to make sure the mounting hooks are fully engaged onto the center of the hand holes (See Fig. 2A & 2B). As you continue alternating tightening each hook, keep your fingers in the holes of the simulator where you're tightening to make sure the hook stays engaged and in the center of the wheel hand holes.

**Step 3. Verify Wheel Simulator Is Centered On Wheel**

At this point stop alternating tightening the Phillips head screws, and check to see that the simulator is being tightened evenly all the way around the simulator and rim. Also check that the hand holes of the simulator align with the wheel hand holes. Slide your hands around the edge of the simulator and rim, making sure the simulator is evenly spaced all the way around the rim. (See Fig. 3). If it's not even, you may have to loosen the screws and readjust the simulator so that it is centered around the rim and the hand holes align, then repeat the tightening procedure in Step 2.



FIGURE 1A

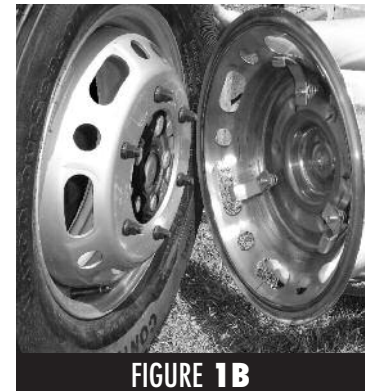


FIGURE 1B



FIGURE 1C — 2012 MODEL



FIG. 1D — 2007 — 2011 Models

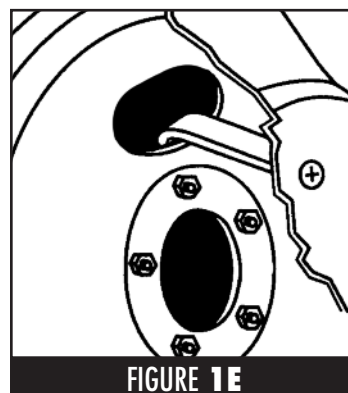


FIGURE 1E

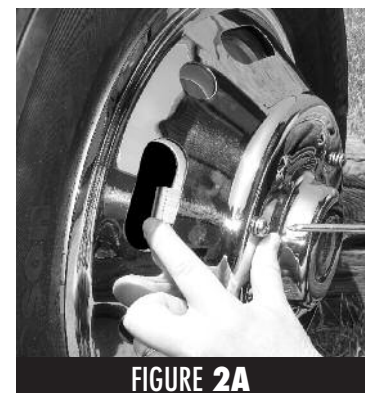


FIGURE 2A



FIGURE 2B

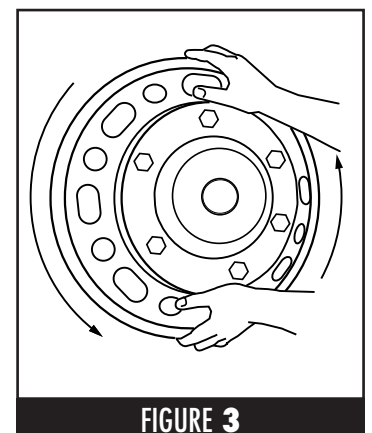


FIGURE 3

*Continued on next page.*

#### Step 4. Final Tightening Of Wheel Simulator / Removal

After final checking that the hooks are engaged into the center of the hand holes of the wheel and the simulator is evenly spaced and true all the way around the rim, then continue to alternate tightening the Phillips head screws until the simulator is securely tightened to the wheel. (See Fig. 4A and 4B) Repeat the same process on the other wheel and you're finished. (See Fig. 4C and 4D)

**To Remove The Simulator:** Loosen the Phillips head screws until the hook mounts disengage from the hand holes.

**Very Important:** After initial installation, the mounting system will seat itself into the wheel. After the first 100 miles check that the simulators are tight and secure to the wheels. If necessary, retighten the mounting screws. We recommend that the wheel simulators are checked and inspected periodically to make sure that they are tight and secure to the wheels.



FIGURE 4A



FIGURE 4B



FIGURE 4C



FIGURE 4D



**NOTE:** If installing Air Valve Extensions, follow separate instructions sheet included.

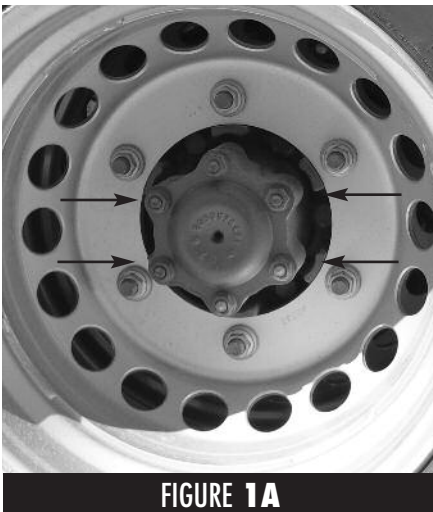


FIGURE 1A

**Note 1:** Rear Wheel Simulator Installation Instructions apply to both 2007-2011 and 2012+ styles of Sprinter wheels except for placement of bracket relative to oval holes.

**Note 2:** Over-Lug-Mounting—No need to remove lug nuts to install.

### STEP 1 Installing The Rear Mounting Brackets

If your Sprinter has factory black plastic hubcaps, you'll need to remove them. With a 19mm lug wrench, remove **only** the three lug nuts with washers that secure the plastic hubcap. Once the plastic hubcap is removed, securely re-install the lug nuts that were removed from the wheel and tighten to 140 ft lbs.

- For 2012+ wheels, remove two rear axle nuts directly next to each
- For 2007 - 2011 wheels, remove two rear axle nuts directly next to each other and across from an oval hand hole. (See Fig.1B). Then install one of the rear mounting bracket legs onto the two axle studs. Replace and tighten the two axle nuts to the required torque (18.5 ft. lbs.) (See Fig. 1C & 1D).
- Then remove the two axle nuts directly across from the bracket that was just installed. (See Fig.1E). Now install the rear mounting bracket legs onto the two axle studs. Replace and tighten the two axle nuts to the required torque.

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FIGURE 1B

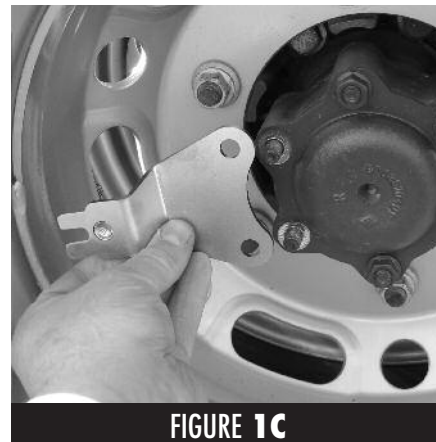


FIGURE 1C

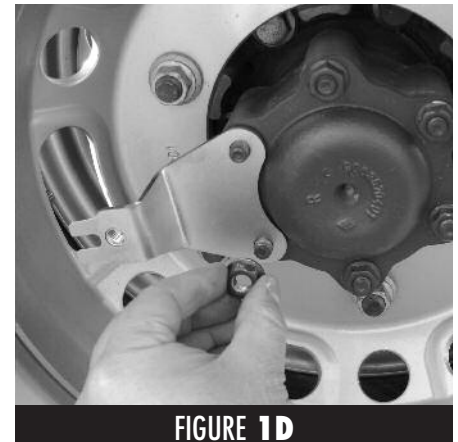


FIGURE 1D



FIGURE 1E

## 2007-11 & 2012+ 3500 SPRINTER — OVER-THE-LUG MOUNTING SYSTEM INSTRUCTIONS FOR REAR 16" SIMULATORS

### STEP 2

#### Mounting The Simulator To The Wheel

- Place wheel simulator onto the wheel making sure to line the holes in the simulator with the threaded holes of the mounting brackets. (See Figs. 2A & 2B)
- Then thread two Phillips head screws through the simulator and into the threaded holes of the mounting brackets and tighten securely. (See Fig. 2C & 2D)
- Repeat the same process on the other wheel and you're finished. (See Fig. 2E & 2F)

**Note:** Optional air valve extensions are available. Call for order information.

**Very Important:** We recommend that the wheel simulators are checked and inspected periodically to make sure that they are tight and secure to the wheels.

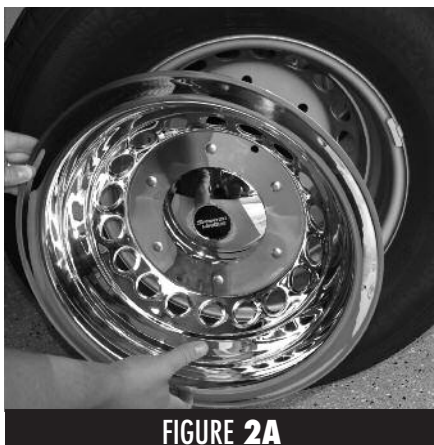


FIGURE 2A



FIGURE 2B



FIGURE 2C



FIGURE 2D

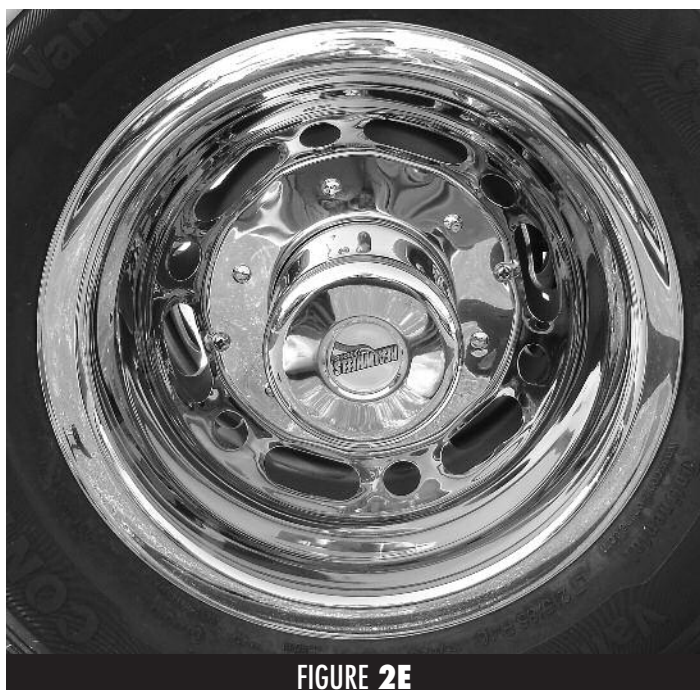


FIGURE 2E



FIGURE 2F

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