

INSTALLATION GUIDE



**AGILE
OFFROAD**
SMARTER THAN DIRT®

**NCV3/VS30 2500 SPRINTER DOUBLE
SHEAR UPPER BRACKET KIT**

GENERAL INFORMATION

The AO Double Shear Bracket Kit is designed to double the strength of the upper rear shock mounting bolts. This kit will work with factory shocks, Agile tuned Fox shocks, and most other aftermarket shocks.

****Read the instructions completely before starting the installation process.****

PARTS INCLUDED

Part # AOR2220:

- | | |
|--------------------------------------|--|
| (1) Driver Side Double Shear Bracket | (2) Stainless Bolt Locking Tab |
| (1) Pass. Side Double Shear Bracket | (2) 1/4" x .75" Bolt |
| (2) 3/4" x 3" Frame/Bolt Sleeve | (2) 1/4" Nyloc Nuts |
| (2) 7/8" x 3" Frame/Bolt Sleeve | (4) 1/4" Stainless Washers |
| (4) 1/2" x 4.5" Bolts | |
| (8) 1/2" Washers | Use on NCV3 models w/Self Adjusting Headlights |
| (4) 1/2" Nyloc Nuts | (2) 3/8" x 4" Bolts |
| (4) 1/2" ID Larger Diameter Washers | (2) 3/8" Washers |
| (2) 14mm x 100mm Bolts | (2) 3/8" Nyloc |
| (2) 6mm x 14mm ID Washers | |

TOOLS NEEDED

- 18mm Socket/Wrench
- 21mm Socket/Wrench
- 22mm Socket/Wrench
- 3/4" Socket/Wrench
- 1/2" Socket Wrench
- 7/16" Socket/Wrench
- Red Loctite





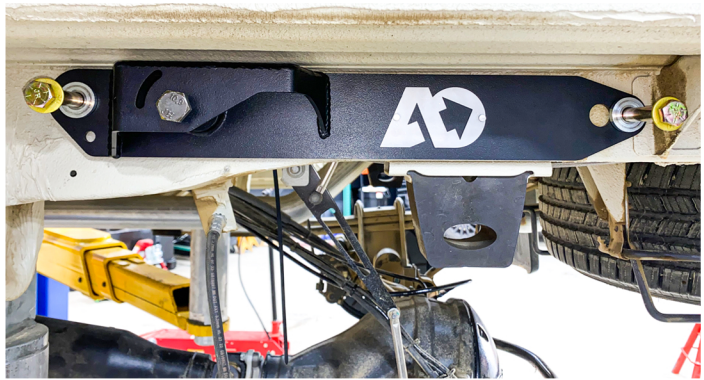
Lift and support vehicle as recommended by Mercedes and remove rear wheels.



Use a 21mm socket to remove the upper shock bolt. Then use a 18mm socket and wrench to remove the lower shock bolt. Completely remove shock and set aside.



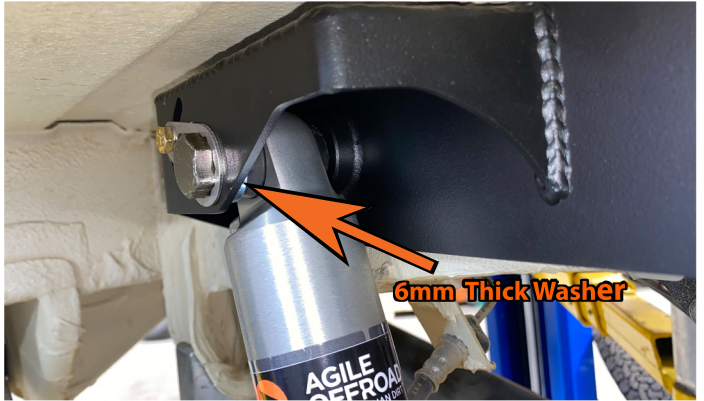
Clean the frame surface as necessary. The 2019+ Sprinter frame comes with two existing holes. The front hole is 7/8" and the rear hole is 3/4".



Install the supplied 14mm x 100mm shock bolt to hold the AO Double Shear bracket against frame. Install the 7/8" frame/bolt sleeve through the front hole of the bracket and frame and the 3/4" frame/bolt sleeve through the rear hole of the bracket and frame. Install the supplied 1/2" x 4.5" bolts with washers.



Install the supplied 1/2" large diameter washers, 1/2" small diameter washers, and 1/2" nyloc nuts to the inside of frame. At this time do not fully tighten.



Install rear shocks using the supplied 14mm x 100mm upper bolts. Factory and Fox 2.0 shocks will require the use of the supplied 6mm thick washer. No spacer is required when using Fox 2.5 shocks. Re-use factory lower mounting hardware. **Use red Loctite on bolts**



Torque the upper shock bolt to 105 ft lbs then install the bolt locking tab using the supplied 1/4" bolt, washer and nyloc nut. Torque the lower shock bolt to 75 ft lbs. Fully tighten the front and rear AO Shock Mount bolts and torque to 90-100 ft lbs. Repeat same process on the passenger side. Re-install wheels and torque lug nuts/bolts to the recommended wheel torque specs.

