
M-Force 4 & 5 Lug Wheel Stud Installation Guide

Thank you for purchasing your wheel stud kit from Vorshlag Motorsports. In order to ensure proper installation and longevity of your kit, please refer to the instructions below for installation.

Tools Required:

Floor Jack
Jack Stands
Tire Iron
17 mm or 19mm socket
Torque Wrench
Brake Parts Cleaner
Clean lint-free cloth

Installation Steps:

1. Review the contents of your Vorshlag Motorsports stud kit to insure that all required parts are included.

Your kit should consist of:

- a. Correct qty. of studs
- b. Correct qty. of lug nuts
- c. One hex key wrench
- d. One package of LockTite 262



2. Raise your vehicle and support it with jack stands.

****Please refer to your vehicle's owner manual for proper jacking procedure.
NEVER work under an unsupported vehicle!***

3. Remove wheel from vehicle.

4. Using your can of brake parts cleaner, clean out the thread orifice to dislodge any debris or rust that may be in there.

*****Wear proper eye protection to prevent brake cleaner from getting into your eyes!***



5. Allow the brake parts cleaner to dry.

6. Apply a small amount of LockTite 262 to the threads on the shorter end of the stud.



For 60mm studs following instructions in step 7a. For all other studs skip to 7b.

7a. Insert the stud into the hub and hand tighten using the provided allen wrench. Around 15 ft-lbs is all that is required. Ensure that a minimum of 6 threads are engaged.

7b. 80mm studs have tight tolerance threads on the hub side of the stud. This creates a tight fit so that the studs will not back out.

For 80mm studs, you will need to "double nut" the stud using two lug

nuts. Install until the stud's shoulder bottoms out against the hub. Ensure that a minimum of 6 threads are engaged.



Close up of double nitted lug nuts.



****Over tightening of the studs can lead to permanent damage of the wheel hub and the stud.***



8. Using your brake parts cleaner and lint free cloth clean the surface of you brake rotor to remove any

grease or debris which may be present.

9. Re-install your wheel using the lug nuts provided with the kit.

10. Check the number of turns of engagement of the lug nut to the wheel stud. The absolute minimum is 6 turns. To check this, install the lug-nut where it is just engaged on the thread. Rotate the lug nut counting the number of complete turns it takes to bottom out. If it is less than 6 full turns, you will need to purchase longer studs.

11. Torque the lugs to 70 – 80 ft-lbs.

12. Repeat steps 3 through 9 for the remaining wheels.

13. You are now ready to enjoy your wheel stud kit!

Note to users with Wheel Spacers:

In order to ensure that you are properly installing your wheels when using wheel spacers, the following items should be verified:

1. Only use hub-centric wheel spacers. Never rely on the wheel studs to center the wheel to the hub. At best you will have a nasty vibration and a worst you are risking a wheel stud failure.
2. Make sure that there are a minimum of 6 threads of engagement between the lug nut and wheel stud AND between the hub and the stud.

3. Don't use wheel spacers as a

substitute for a wheel with the correct offset!

4. REMOVAL HINTS: The allen hex in the studs are not strong enough to remove when Loctite is used. Follow the double nut procedure when removing studs. Do not use an allen wrench.

Vorshlag Motorsports LLC

“We don’t make the cars you drive, we make the cars you drive *faster*.”

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HELP!! If you find yourself in a bind during the install, call 214-227-8670 Option 5