

# Keep Wheel Studs and Nuts in Place



Dear Half-Mast,

We are experiencing problems with the wheel studs on our unit's HMMWVs. The studs are shearing off while the vehicles are in operation. Are other units having this same problem?

SFC M.S.F.

Dear Sergeant M.S.F.,

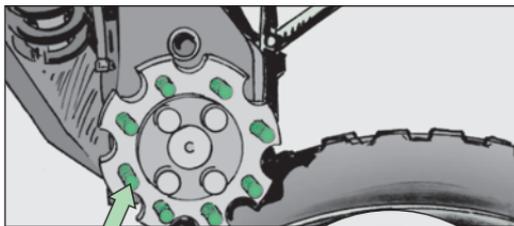
Yep. We've received several inquiries about HMMWV wheel studs and nuts.

The high op-tempo of HMMWVs in theater (southwest Asia) means you have to inspect for loose or damaged studs and nuts more often than semi-annually.

Loose stud nuts lead to serious shaking problems. So make sure studs and nuts are properly cleaned, inspected and tightened. Here's how:

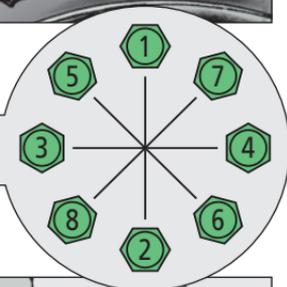
- While the wheel is off, use a wire brush to break loose sand from studs. Clean the studs with soap and water and allow them to dry completely.
- Look for studs that are cracked, broken, rusted, pitted, bent or loose. Pay special attention to the threads. Replace damaged studs.
- Stud nuts have to be tightened gradually and in the proper sequence to avoid bent and broken studs. Follow the tightening order shown on Page 8-7 of TM 9-2320-280-20-2 and -387-24-1 and to the right.

Tighten all the nuts by hand first, then torque the nuts to 90-110 lb-ft following the proper pattern.

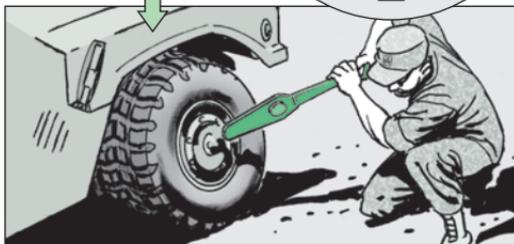


Check stud threads for damage

Tighten and torque nuts using this pattern



Torque nuts to 90-110 lb-ft



*Half-Mast*