

RECOMMENDED TORQUE

The recommended torque for Motor Wheel Hub Piloted systems has been changed to 450-500 ft.-lb. This revision is in concert with ATA Maintenance Council recommended practices, for a uniform torque to be used with the primary truck and trailer wheel mountings:

Hub Pilot Mount with 33mm Hex Cone Lock Nuts
Hub Pilot Mount with 1-1/2" Hex Cone Lock Nuts
Stud Pilot, Double Cap Nut ("Ball Seat") Mount with 11/16" Square and 1-1/2" Hex

Original recommended torques for 1-1/2" hex Cone Lock Nut #88881 were higher. However, as a result of the 1992 NTSB study on wheel loosening, industry-wide standardization of torque values was emphasized to avoid confusion.

Cone Lock Nuts recommended for use on Motor Wheel Hub Piloted systems include:

MW #88881; MW #90846 (replaces MW #3208401)
Metform #39701; Metform #39702

We advise that wheels be initially tightened to the upper limit of the torque range, 500 ft.-lb. After 50 to 100 miles of operation, the wheel nuts should be checked for tightness and retorqued if necessary. A torque check should also be made part of the vehicle's scheduled maintenance program or at 10,000 mile intervals, whichever comes first.

It is also recommended that the cone lock nuts and wheel bolts be lubricated before installation. Apply two drops of any common lubricant on the first two or three threads, and in the crevice between the cone lock nut body and flange. Please refer to Motor Wheel Tech Data #TD3, "Lubrication of Hub Piloted System Fasteners".