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Service Tips and Best Practices

2018-2007 Ford Truck & SUV Integrated Wheel End Hub Assemblies

Brand	Supreme/TTX	Product	Wheel Hub Assembly	Date	July 2022
Part Number(s)	H515095/H515118/MB40302/MB40304/MB40311/MB40325/TXF40302/TXF40304/TXF40325				

Depending on factory-equipped payload package and drivetrain options, the below noted applications may be equipped with an Integrated Wheel End (IWE) system on the front axle. This system utilizes an actuator to engage and disengage 4WD via engine vacuum.

Application(s)
2018-2009 Ford F-150
2018-2007 Ford Expedition
2018-2007 Lincoln Navigator

For a frustration-free and successful repair outcome, follow the guidelines below:

- Discard old nuts and bolts. Do not reuse old hardware
- Inspect and verify condition of all mating surfaces, including CV axle splines. Replace if these are noted to be damaged and or out of specification
  - Inspect and verify all vacuum lines, check valves, solenoids and actuators for correct functionality
- Remove all rust, burrs and other contaminants from the knuckle bore and associated mating surfaces
- Only use a calibrated torque wrench for all final fastening procedures

INSTALLATION

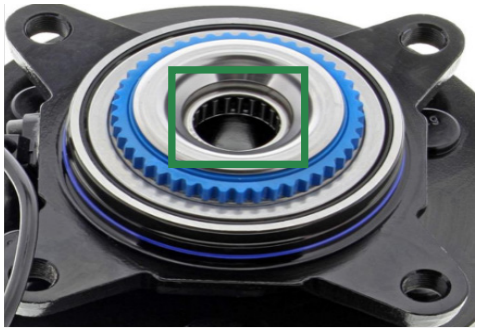
- Mevotech replacement wheel hub assemblies include a new hub to steering knuckle o-ring, if required. Lightly lubricate this o-ring with a NLGI #2 certified grease. **See Figure 1**
- Ensure to lubricate the needle bearing portion of the replacement wheel hub assembly with a NLGI #2 certified grease before installation. **See Figure 2**
- Carefully mate the CV axle to the wheel hub assembly. Caution must be exercised especially when mating the IWE hub to the CV axle. Teeth on both components must be lined up before pulling the axle into the hub and tightening the axle nut. Teeth must be meshed and engaged correctly to seat axle
- IIWE hubs use a "lower" axle nut torque value, when compared to the typical value a Professional Technician may expect at the wheel end . Ensure to only use the correct fastening torque value as found in the factory service manual

Always refer to the factory service manual for correct diagnostic procedures, component removal and installation methods, as well as fastening torque values and procedures where applicable.

Figure 1.



Figure 2.



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