

Wheel and Tire - Vehicles With: Dual Rear Wheels

Materials

Name	Specification
Motorcraft® High Temperature Nickel Anti-Seize Lubricant XL-2	-
Motorcraft® SAE 5W-20 Full Synthetic Motor Oil XO-5W20-QFS	WSS-M2C945-A

Removal

1. With the vehicle in NEUTRAL, position it on a hoist.
Refer to: Jacking and Lifting - Overview (100-02 Jacking and Lifting, Description and Operation).
2. **WARNING: Keep eyes away from valve stem when deflating tires. Reduce air pressure in tire as much as possible by pushing in valve core plunger prior to removing the core. Escaping air can carry particles that can injure the eyes. Failure to follow these instructions may result in serious personal injury.**

On vehicles equipped with 19.5" or larger tires.

Before removing the tire and wheel from the vehicle, deflate the tire completely. If working on dual wheels, deflate both tires completely before loosening the wheel nuts.
Refer to: Safety Precautions - Overview (204-04A Wheels and Tires, Description and Operation).

3. **NOTE: Typical wheel cover shown, others may vary by application.**

If equipped.

Remove the wheel cover.



4. Check the torque for all of the wheel nuts. If any wheel nuts have a torque above 312 Nm (230 lb-ft), install all new wheel studs on that wheel hub. For additional information, Refer to the appropriate section in Group 204 for the procedure.
5. **NOTICE: Do not use heat to loosen a seized wheel nut or damage to the wheel and wheel bearing can occur.**

NOTE: 10 lug wheel shown, 8 lug similar.

Remove the wheel nuts.

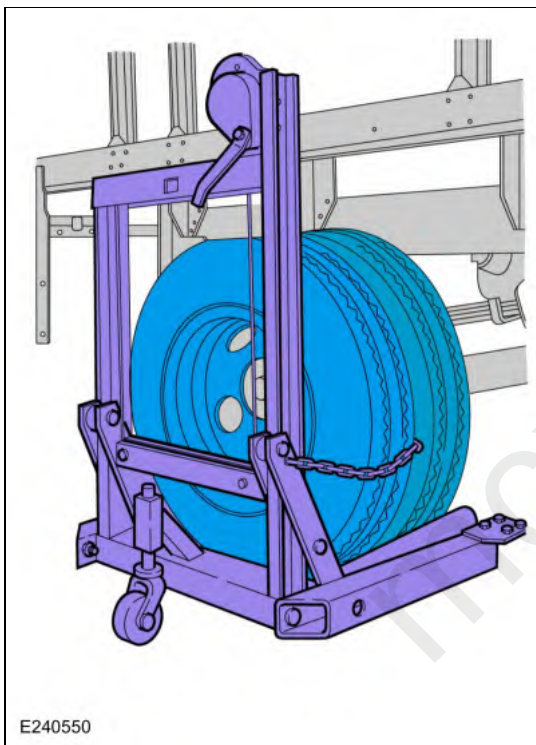


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6. **NOTICE: On vehicles equipped with 19.5-in and larger wheels, use Rotunda Heavy Duty Wheel Dolly 014-00030 or equivalent to aid in the removal of the wheel and tire assemblies.**

Remove the outer and inner wheel and tire assemblies.



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Installation

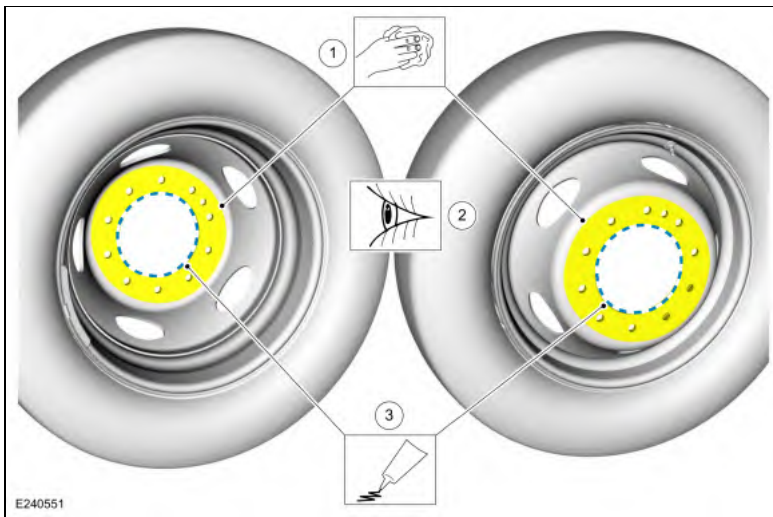
1. Inspect the wheel and tire assembly for cracks, dents, leaks, severe wear or rust flaking. Install a new wheel if cracks or rust flaking of the mounting surface exists.
2. **WARNING: When a wheel is installed, always remove any corrosion, dirt or foreign material present on the mounting surface of the wheel and the mounting surface of the wheel hub, brake drum or brake disc. Make sure that any fasteners that attach the rotor to the hub are secured so they do not interfere with the mounting surfaces of the wheel. Failure to follow these instructions when installing wheels may result in the wheel nuts loosening and the wheel coming off while the vehicle is in motion, which could result in loss of control, leading to serious injury or death to vehicle occupant(s).**

NOTICE: Make sure to apply a thin coat of anti-seize lubrication only to the interface between the wheel pilot bore and the hub pilot. Do not allow the anti-seize to make contact with the wheel-to-brake disc/drum mounting surface, wheel studs, wheel nuts, brake pads or brake disc friction surfaces or damage to components may occur.

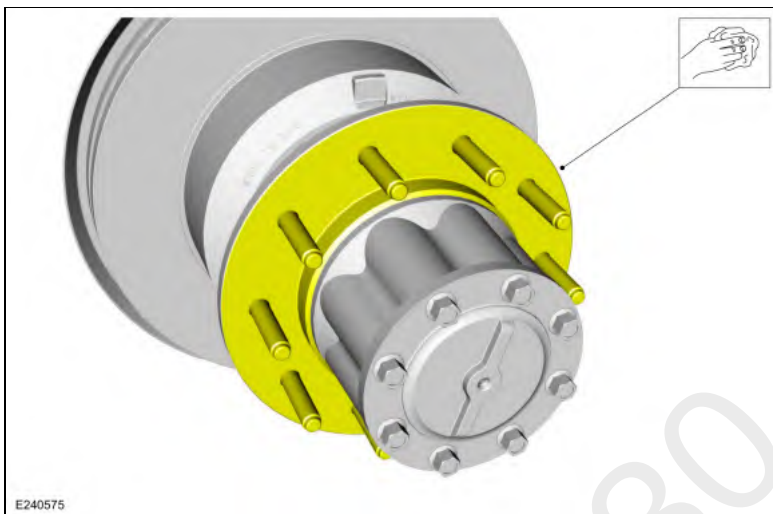
Clean the wheel to remove any loose paint, dirt, rust pitting or foreign material without cutting into the metal.

1. Using a clean, dry shop towel, wipe off any excess metallic particles.
2. Re-inspect the wheel after cleaning. Fatigue cracks or rust flaking may be seen only after cleaning has been completed.
3. Apply a thin coat of anti-seize to the wheel hub pilot surface (wheel only).

Material: Motorcraft® High Temperature Nickel Anti-Seize Lubricant / XL-2



3. Clean the wheel hub mounting surfaces.



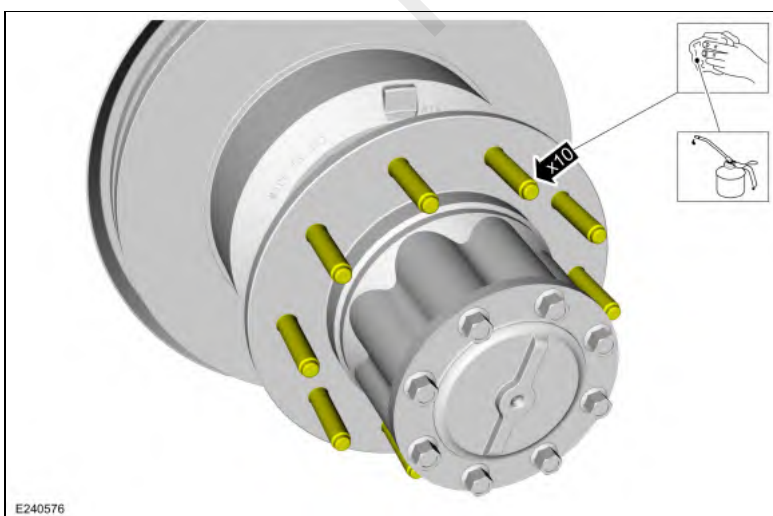
4. **WARNING:** Use only the specified lubricant on the wheel studs as directed in the following procedure. Incorrect lubricant application may result in insufficient wheel nut torque, resulting in possible wheel/tire separation from the vehicle. Failure to follow this instruction may result in serious injury to the vehicle occupant(s).

NOTE: Do not allow oil to build up in the wheel stud threads. Only use 2 to 3 drops of oil per wheel hub.

Apply 2 to 3 drops of the specified motor oil to a clean shop towel. Using the shop towel, apply the oil to the wheel stud threads.

- Wipe off any excess oil from the wheel stud threads.

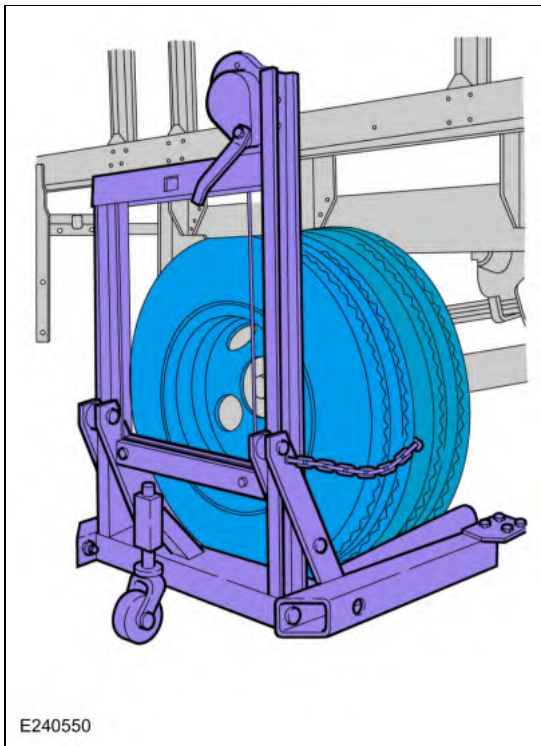
Material: Motorcraft® SAE 5W-20 Full Synthetic Motor Oil / XO-5W20-QFS (WSS-M2C945-A)



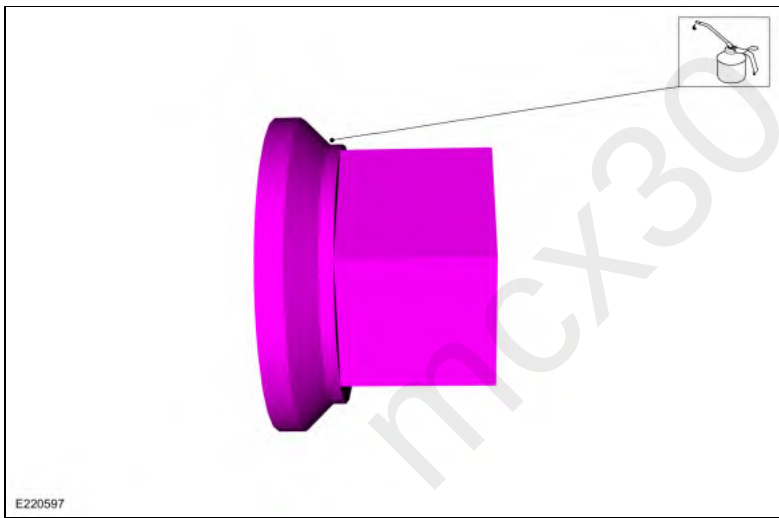
5. **NOTICE:** On vehicles equipped with 19.5-in and larger wheels, use Rotunda Heavy Duty Wheel Dolly 014-00030 or equivalent to aid in the removal of the wheel and tire assemblies.

NOTE: The valve stem on the inner wheel and tire assembly must be aligned with one of the hand holes in the outer wheel and tire assembly.

Install the inner and outer wheel and tire assemblies.

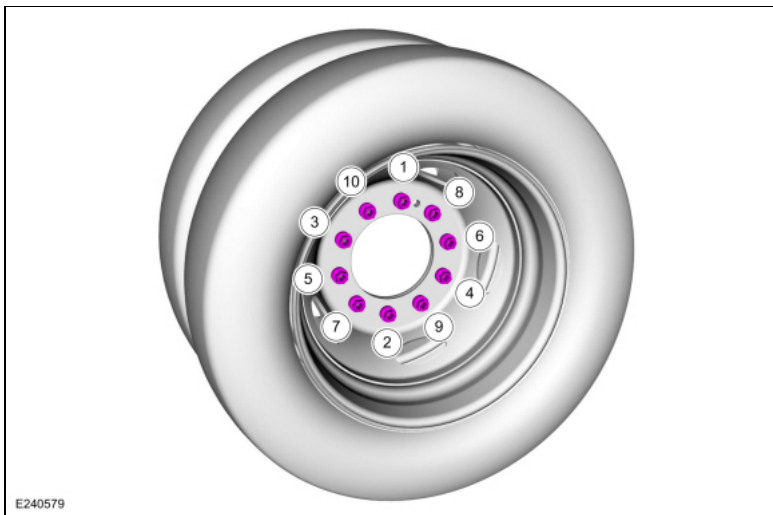


6. On all 2-piece flat wheel nuts, apply one drop of motor oil between the flat washer and the nut. If corrosion exists, or the integral 2-piece swiveling wheel nut does not rotate freely, install new swiveling wheel nuts as necessary.
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7. **NOTE:** 10 lug wheel shown, 8 lug similar.

- Install the wheel nuts by hand.
- Tighten the wheel nuts until snug in a star/cross pattern to minimize runout.

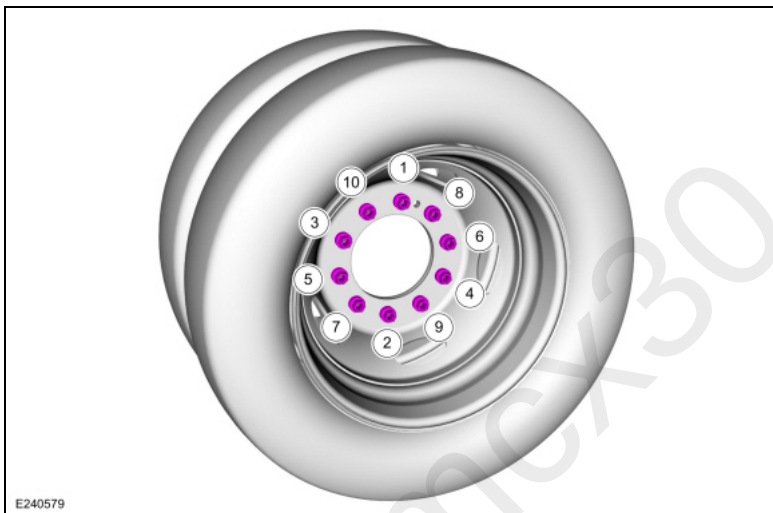


8. **WARNING:** Retighten wheel nuts within 160 km (100 mi) after a wheel is reinstalled. For dual rear wheel (DRW) only, a second retightening is required within 800 km (500 mi). Wheels can loosen after initial tightening. Failure to follow this instruction may result in serious injury to vehicle occupant(s).

NOTICE: Failure to tighten the wheel nuts in a star/cross pattern may result in high wheel and tire runout, which will speed up the development of brake roughness, shudder and vibration.

NOTE: 10 lug wheel shown, 8 lug similar.

With the weight of the vehicle on the tires, tighten the wheel nuts.
Torque: 165 lb.ft (224 Nm)



9. **NOTE:** Typical wheel cover shown, others may vary by application.

If equipped.
Install the wheel cover.



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