
How To Replace A Front Wheel Bearing On A 2007 Lincoln Mlx

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INTRODUCTION: DIAGNOSING AND TACKLING A COMMON LINCOLN MKX ISSUE

There are few mechanical noises more unsettling than a growling or humming sound that changes pitch as you steer. If you own a 2007 Lincoln MKX and have noticed a rhythmic drone that gets louder when you turn left or right, there

is a strong chance your front wheel bearing is failing. This critical component allows your wheel to spin smoothly while supporting the weight of the vehicle. When it wears out, it not only creates noise but can also lead to dangerous play in the wheel. The good news is that **how to replace a front wheel bearing on a 2007 Lincoln MKX** is a job that many DIY mechanics can accomplish in a weekend with the right tools and patience. This guide will walk

UNDERSTANDING THE 2007 MKX, from confirming the diagnosis to torquing the final bolt. You will save significant money compared to a shop repair, and you will gain the confidence that comes from handling a major suspension repair yourself.

Before you dive in, understand that this is an intermediate to advanced job. It involves handling heavy components, using specialized tools like a press or a slide hammer, and dealing with corrosion that is common on vehicles of this age. However, with careful planning and attention to detail, you can successfully complete this job. Let's start by understanding exactly what we are working with on the 2007 MKX.

LINCOLN MKX FRONT HUB ASSEMBLY

The 2007 Lincoln MKX, built on the Ford CD3 platform, utilizes a front wheel bearing that is integrated into a hub assembly. Unlike older designs where the bearing could be pressed out of the steering knuckle separately, this vehicle typically uses a complete **hub and bearing unit**. This simplifies the replacement somewhat, as you do not need to press old races out and new races in. Instead, you remove the entire hub assembly from the knuckle. However, the job is not without its challenges. The assembly is pressed into the knuckle with significant force, and the axle nut is notoriously tight.

Additionally, rust and grime can make every step a fight. Knowing **how to replace a front wheel bearing on a 2007 Lincoln MKX** means being prepared for these specific hurdles.

The front bearing on this vehicle is a sealed unit. You cannot repack it with grease. When it fails, replacement is the only option. Symptoms include a cyclical grinding, growling, or humming noise. A simple test is to drive the car and swerve left and right. If the noise gets louder when you turn left, the right front bearing is usually the culprit, and vice versa. You can also jack up the front end, grab the wheel at the 12 o'clock and 6 o'clock positions, and try to rock it. Excessive play indicates a worn bearing. Once you are certain which side needs work, you can gather your tools.

TOOLS AND PARTS YOU WILL NEED

Preparation is the key to a smooth repair. Do not start this job without having everything you need on hand. Trying to run to the auto parts store mid-project because you lack a tool will turn a one-day job into a two-day ordeal. Here is a comprehensive list of tools and parts required for **how to replace a front wheel bearing on a 2007 Lincoln MKX**.

Necessary Parts

- **Front Wheel Hub and Bearing Assembly:** This is your main part. It should come pre-assembled with the bearing, hub, and flange.

Choose a reputable brand like Timken, Moog, or OEM Motorcraft. Avoid the cheapest options as they often fail prematurely.

- **Axle Nut:** The axle nut is a single-use, torque-to-yield fastener. You must replace it. Get a new one from the dealership or a high-quality aftermarket supplier.
- **Hub Retaining Bolts:** These four bolts (usually T55 Torx or 15mm hex) hold the hub assembly to the knuckle. While they can be reused, it is good practice to replace them, especially if they are heavily corroded.
- **Loctite Threadlocker:** Medium-strength (blue) is sufficient for the hub retaining bolts.
- **Anti-Seize Compound:** Apply

this to the splines of the axle shaft and the mating surface of the hub to prevent future corrosion.

- **Brake Cleaner:** For cleaning components.
- **Penetrating Oil:** A generous application of PB Blaster or Kroil is your best friend for seized bolts.

Essential Tools

- **Floor Jack and Jack Stands:** Safety first. Never work under a car supported only by a jack.
- **Lug Wrench or Impact Wrench:** For removing the wheels.
- **Breaker Bar and Socket Set:** A 1/2-inch drive breaker bar (at least 24 inches long) is nearly

mandatory for the axle nut.

- **Torx Sockets (T55):** For the hub retaining bolts. You will likely need a T55 socket for a 1/2-inch drive.
- **30mm or 32mm Socket:** For the axle nut. Verify the size on your specific vehicle; 32mm is common for this model year.
- **Bearing Splitter or Hub Puller:** This tool applies pressure behind the hub flange to push it out of the knuckle. A hydraulic press can be used if you remove the knuckle, but a puller allows you to do the job on the car.
- **Slide Hammer with Hub Attachment:** This is often used in conjunction with the puller.
- **Hammer (Ball Peen or Dead Blow):** For persuasion.

- **Torque Wrench:** A high-range torque wrench (up to 250 ft-lbs) is needed for the axle nut.
- **Safety Glasses and Gloves:** Metal shavings and high-torque situations demand protection.
- **Wire Brush:** For cleaning rust.

With your tools ready, you can proceed with confidence. The following sections will detail every step of **how to replace a front wheel bearing on a 2007 Lincoln MKX**.

STEP-BY-STEP REPLACEMENT PROCEDURE

This procedure assumes you have already safely lifted and secured the vehicle. Always loosen the lug nuts while the vehicle is on the ground, then lift the

front end and place it on sturdy jack stands. Remove the wheel to expose the hub and brake components.

Step 1: Remove the Brake Caliper and Rotor

Unbolt the brake caliper using the appropriate socket. Do not let the caliper hang by the brake hose. Use a zip tie or a piece of wire to hang it from the coil spring. This relieves tension on the hose. Next, remove the brake rotor. It may be stuck to the hub due to rust. A few taps with a hammer and some penetrating oil should free it.

Step 2: Remove the Axle Nut

This is often the most difficult step. The axle nut is torqued to around 200 ft-lbs and can be seized. With the vehicle on the ground (or the wheel on the ground for leverage), use a breaker bar and the correct socket to break it loose. If you have an impact wrench with high torque, that works even better. The nut holds the CV axle to the hub. Once loosened, remove it completely.

Step 3:

Disconnect the Wheel Speed Sensor

Locate the wheel speed sensor wire on the back of the knuckle. It is held in by a small bolt or clip. Carefully remove it and pull the sensor out of its bore. Be gentle. The sensor is brittle and can break easily. Clean any debris from the bore with brake cleaner.

Step 4: Remove

the Hub Retaining Bolts

There are four bolts that hold the hub assembly to the steering knuckle. On a 2007 MKX, these are typically T55 Torx bolts. Using a quality T55 socket and a breaker bar, apply penetrating oil and try to break them loose. They can be very tight. If they strip, you are in for a much bigger job, so use a high-quality socket and apply steady pressure. If they are too stubborn, you may need to use heat or an impact driver. Remove all four bolts and set them aside.

Step 5: Separate the Hub from the Knuckle

Even with the bolts removed, the hub is pressed tightly into the knuckle. This is where your bearing splitter and hub puller come into play. Place the bearing splitter behind the hub flange. Use the puller to apply pressure, pushing the hub studs outward. You will hear a loud pop as the hub breaks free. If you have a slide hammer, you can attach it to the hub flange and use it to pull the assembly out. Alternatively, you can use a hydraulic press if you have removed the knuckle from the vehicle. Be patient;

this step can take significant force.

Once the hub is free, you will see the CV axle spline protruding from the knuckle. The old hub assembly will slide off the axle. Inspect the axle shaft for wear or damage.

Step 6: Prepare the New Hub Assembly and Knuckle Bore

This is a critical step in **how to replace a front wheel bearing on a 2007 Lincoln MKX**. Use a wire brush and brake cleaner to thoroughly clean the

bore in the steering knuckle where the new hub sits. Remove all rust, dirt, and old anti-seize. Apply a thin layer of anti-seize to the bore and the mating surface of the new hub. Do not get anti-seize on the bearing itself or the ABS sensor ring. Also, clean the CV axle splines and apply a light coat of anti-seize.

Step 7: Install the New Hub Assembly

Slide the new hub assembly onto the CV axle splines. Align it with the knuckle bore. You may need to gently tap it into place with a dead blow hammer or use

the puller tool to press it in. Do not hammer directly on the bearing race. Use a block of wood or a press tool. The hub should seat flush against the knuckle. Once seated, install the new hub retaining bolts. Apply a drop of blue Loctite to the threads and torque them to factory specification (typically around 80-90 ft-lbs).

Step 8: Reinstall the Axle Nut

This is a one-use part. Install the new axle nut and tighten it by hand. Lower the vehicle so the tire is on the ground, then torque the axle nut to the manufacturer's specification. For a 2007 Lincoln MKX, this is typically between

180 and 220 ft-lbs. Use a high-range torque wrench for accuracy. This is crucial for the safety and longevity of the bearing.

Step 9: Reassemble Brake Components

Reinstall the brake rotor and caliper. Torque the caliper bolts to specification. Reinstall the wheel speed sensor, being careful not to damage it. Route the wire correctly and secure it with the retaining clip.

Step 10: Final Checks and Test Drive

Install the wheel and lower the vehicle fully. Torque the lug nuts to 100 ft-lbs in a star pattern. Before driving, pump the brake pedal to seat the pads against the rotor. Take a slow test drive. Listen for any unusual noises. Make a series of left and right turns. The drone should be gone. If you replaced the correct bearing, the car will ride quietly and smoothly.

TIPS

Even with a clear guide on **how to replace a front wheel bearing on a 2007 Lincoln MKX**, problems can arise. Here are some common issues and how to avoid them.

- **The axle nut is seized:** Apply penetrating oil hours before you start. If it still won't budge, use a propane torch to heat the nut (not the axle shaft) and try again. Be careful around fuel lines and seals.

COMMON PITFALLS AND PRO

- **The hub is not pressed in place:** This is the most common frustration. A heavy-duty puller is not a luxury; it is a necessity. If you do not have one, you can remove the entire knuckle and take it to a machine shop to have the old hub pressed out and the new one pressed in.
- **The T55 bolts strip:** Use a high-quality 6-point socket, not a 12-point. Make sure the socket is fully seated. If you feel it slipping, stop immediately. Try hammering the socket onto