

# Lincoln Mark VII

## Front Brake Pad Replacement

Front disc brake pads can last up to 50,000 miles depending on driving habits and locations. The outer brake shoe and lining assembly is longer than the inner shoe and lining assembly. Both inner and outer brake shoe lining assemblies are attached to the caliper by spring clips also known as ant-rattle clips. The outer clip is riveted to the lining of the brake shoe assembly. The inner clip is riveted to the lining of the brake assembly as a separate item. The inner shoe is attached to the caliper by installing the spring clip to the inside of the caliper phenolic piston. The outer shoe clips directly to the caliper housing. Two rubber insulators with plastic/nylon inner sleeves prevent metal-to-metal contact between the locating pins and the caliper.

**Brake friction materials inherently generate noise and heat to dissipate energy. As a result, occasional squeal is possible, and it is aggravated by severe environmental conditions such as cold, hot, wet, snow, salt, mud, etc.**



## Lincoln Mark VII Front Brake Pad Replacement

Disconnect the battery.

Turn off the suspension switch.



## Lincoln Mark VII Front Brake Pad Replacement

Remove the brake reservoir fill cap.



## Lincoln Mark VII Front Brake Pad Replacement

Raise and support the front of the vehicle.



## Lincoln Mark VII Front Brake Pad Replacement

Remove the wheel and tire assembly.



## Lincoln Mark VII Front Brake Pad Replacement

Remove the caliper locating pins.



## Lincoln Mark VII Front Brake Pad Replacement

Remove and suspend the caliper inside of the fender housing with a wire. Be careful NOT to damage the caliper or stretch the brake hose.



## Lincoln Mark VII Front Brake Pad Replacement

Remove the outer shoe from the caliper by sliding the shoe down the caliper leg until the clip is disengaged. Remove the inner shoe by pulling it straight outward from the piston. This could require upwards of 30 pounds of pressure. Compare the removed, worn pads (shown on the left) to the new pads (shown on the right) that you are about to install.





## Lincoln Mark VII Front Brake Pad Replacement

Inspect the piston for brake fluid leakage. If any is found, replace the caliper.



## Lincoln Mark VII Front Brake Pad Replacement

**The piston is made of phenolic material and must not be seated in the bore by applying a C-clamp or brake shoe seating tool directly to the piston.**

Install the correct inner shoe and lining assembly. **The inner shoes are marked LH (driver side) or RH (passenger side) and MUST be installed in the proper caliper due to rotation.** Care must be taken not to bend the anti-rattle clips too far in the piston or distortion and rattles can result. Inner shoe installation is accomplished by holding each end of the shoe, making sure it is square with the piston, and pushing the shoe in firmly until the three prong clip snaps into position. Do not allow shoe or clip tangs to cock during installation to avoid bending clip.



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Using a brake piston seating tool or a C-clamp and a thin piece of wood, seat the caliper hydraulic piston in its bore by pushing in the brake shoe assembly. This must be done to provide clearance for the caliper assembly to fit over the rotor when installed. Once the seating tool is removed, the inner pad and piston should remain seated.



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Install the correct outer brake shoe making sure that the clip is located on the caliper properly and fully seated.



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Install the caliper to the rotor. **Clearances will be close but will not require hammering the caliper into place.** If the new shoes do not first fit over the rotor, then the piston was not fully seated. Fully seat the piston. If the shoes fit on the rotor but the shoe casings do not fit, then reseal the shoes and install the caliper from the outer edge of the rotor moving toward the center of the rotor. **Again, clearances will be close but will not require hammering the caliper into place.**



## Lincoln Mark VII Front Brake Pad Replacement

Install locating pins and tighten to 40 – 60 foot pounds.



## Lincoln Mark VII Front Brake Pad Replacement

Install the wheel and tire assembly and tighten the wheel attaching nuts (lug nuts) to 80 – 105 foot pounds.

Lower the vehicle.

Correct the brake fluid level and close the reservoir.

Reconnect the battery.

Turn the ignition key to run. The brake booster pump should run momentarily to recover pressure.

Pump the brake pedal several times to ensure brake shoe seating and detect leaks **PRIOR TO MOVING THE VEHICLE.**

Turn on the suspension switch.

Test brakes.