

# RESOLVING PARKING BRAKE SPRING CLEARANCE ISSUES

## Ford Explorer/Lincoln Aviator/Mercury Mountaineer

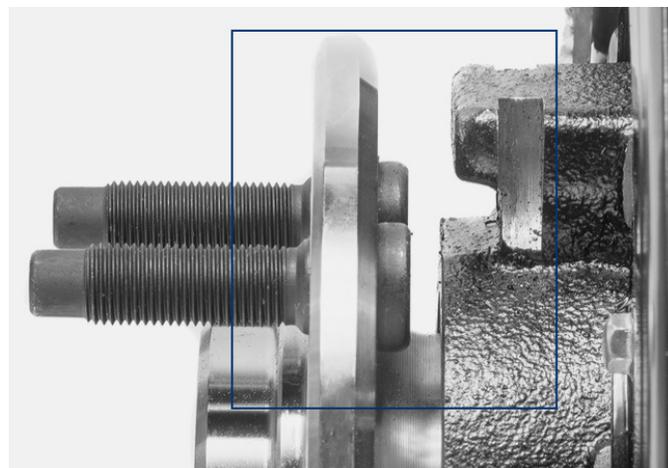
### Hub Assembly Installation

When installing a MOOG® hub assembly on certain Ford, Lincoln and Mercury SUVs, it is necessary to remove the parking brake shoe. When installing the parking brake shoe return spring, technicians may encounter an extremely tight clearance issue which will not allow the spring to be properly installed.

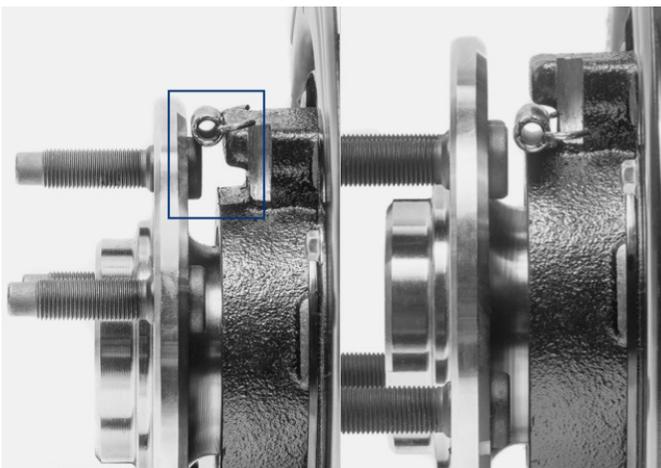
Vehicles Affected		MOOG Hub Assemblies
Years	Make/Model	Part Number
2000-2005	Ford Explorer	515050
2003-2005	Lincoln Aviator	
2002-2005	Mercury Mountaineer	515078
2006-2010	Ford Explorer	
2007-2010	Ford Explorer Sport Trac	
2006-2010	Mercury Mountaineer	

### Installation Procedure

**Step 1** – Align two lug bolts parallel with parking brake boss.



**Step 2** – Attach the rear shoe and then attach the return spring to the rear shoe and hook it to the front shoe.



**Incorrect Due to Interference**  
This is due to the interference between the lug bolt and the parking brake boss.

**Correct Placement**  
Lug bolts parallel.

**Step 3** – Using the front shoe and the parking brake boss' leverage, rotate the front shoe onto the knuckle.



During Shoe Installation.

After Shoe Installation.

**Step 4** – Install the parking brake pin and pin retainer.

**Step 5** – Install star wheel and install the brake shoe adjusting screw.

**Step 6** – Install lower spring and adjust to size.

**Step 7** – Use the Brake Adjusting Gauge to measure the inside diameter of the parking brake drum.

**Step 8** – Adjust the parking brake shoe clearance of 1.07 mm (0.04 in) less than the inside diameter of the parking brake drum.

**Step 9** – Make sure that the parking brake shoes are correctly centered and measure across the center point of the shoes.

**Step 10** – Rotate the parking brake shoe adjuster wheel to achieve the correct parking brake shoe to brake disc clearance.

## Cut the Hassle with MOOG® Complete Knuckle Assemblies

A solution to avoiding clearance issues is to install a MOOG complete knuckle assembly. Pre-assembled for convenience, MOOG complete knuckle assemblies (shown below in table) include the parking brake shoe for a complete solution. Easy to install, the innovative bolt-on solution makes troublesome bearing replacement easier and eliminates the need for special tools or a press, resulting in possible time-savings up to 50%.

### MOOG Complete Knuckle Assemblies

Years	Make/Model	Part Number
2002-2005	Ford Explorer	<a href="#">LK001PB</a>
	Mercury Mountaineer	<a href="#">LK002PB</a>
2006-2010	Ford Explorer	<a href="#">LK035</a>
	Mercury Mountaineer	<a href="#">LK036</a>



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