



OFFICIAL STEERING & SUSPENSION OF NASCAR®

THE PROBLEM SOLVER®

PROBLEM:

Premature bearing failure due to improper preload

Proper preload of the bearing and race within a hub assembly is crucial to its performance and life expectancy. Improper torquing of the hub assembly during installation on the vehicle can adversely affect the bearing preload. In extreme cases, the bearing may separate, causing loss of vehicle control.

Premature bearing failure can arise due to the preload being:

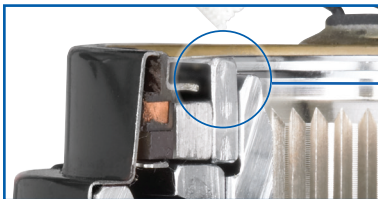


TOO LOOSE, RESULTING IN VIBRATION OR FALSE BRINELLING (SHOWN) OF THE BEARING OR RACES



TOO TIGHT, RESULTING IN OVERHEATING, SPALLING, OR TRUE BRINELLING (SHOWN) OF THE BEARING OR RACES

Traditional pressed-in bearing design does not ensure proper preload.



PRESSED-IN BEARING DESIGN

Description	Years	Make/Model	Part Number	
Hub Assembly with Roll Form Design (Front)	2005-2009	Buick Allure, LaCrosse	513179	
	2001-2005	Buick Century, LeSabre, Park Avenue		
	2006-2011	Buick Lucerne		
	2001-2004	Buick Regal		
	2005	Buick Terraza		
	2001-2005	Cadillac DeVille		
	2006-2011	Cadillac DTS		
	2001-2004	Cadillac Seville		
	2001-2014	Chevrolet Impala		
	2001-2007	Chevrolet Monte Carlo		
	1997-2001	Buick Century, Park Avenue, Regal		513121
	2000-2001	Buick LeSabre		
	2002-2006	Buick Rendezvous		
	1997-2001	Cadillac DeVille, Eldorado, Seville		
	2000-2001	Chevrolet Impala, Monte Carlo		
1997-2004	Chevrolet Venture	513139		
2004-2008	Cadillac XLR			
1997-2008	Chevrolet Corvette			
2004-2005	Chevrolet Classic	513137		
1997-2003	Chevrolet Malibu			
1999-2004	Oldsmobile Alero			
1999-2005	Pontiac Grand Am			

Selected applications shown. Additional applications available.

SOLUTION:

MOOG® Application-Specific Roll Form Design

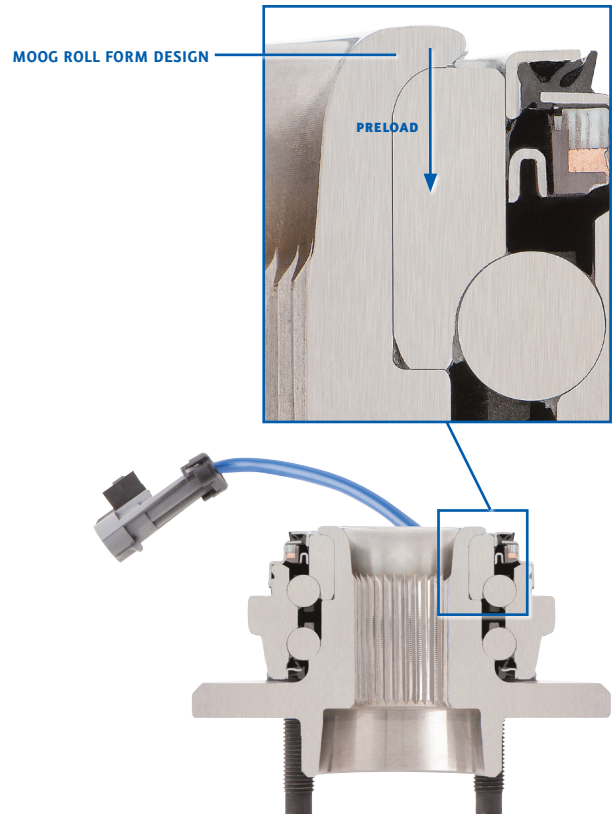
Application-specific MOOG® hub assemblies feature an innovative roll form design that is superior to traditional pressed-in bearing designs.

The MOOG roll form design employs tightly controlled manufacturing processes and carefully selected materials to ensure optimal strength and preload.

The MOOG roll form design ensures:

- Precise preload is set at manufacturing plant which helps prevent over- or under-torquing
- A more robust and longer-lasting part

Application-specific design benefits also include increased bearing load capability and decreased noise or vibration, resulting in a cooler-running bearing.



For parts lookup, visit www.FMe-cat.com tech line: 1-800-325-8886

moogproblemsolver.com

