

Bulletin No.: 07-04-20-003A

Date: December 17, 2007

TECHNICAL

Subject:
Front or Rear Axle Pinion Seal Leak (Replace Seal(s))

Models:
2003-2007 Cadillac CTS
2004-2007 Cadillac SRX
2005-2007 Cadillac STS
2006-2007 Pontiac Solstice
2007 Saturn Sky
2007 Daewoo G2X
2007 Opel GT

Supercede:

This bulletin is being revised to update the VIN breakpoints called out in the Parts Information section. Please discard Corporate Bulletin Number 07-04-20-003 (Section 04 - Driveline/Axle).

Condition

Some customers may comment that the rear axle seal is leaking fluid. This condition also applies to the front axle seal on vehicles equipped with All-Wheel Drive.

Confirm the condition following the Rear/Front Axle Lubricant Leak Diagnosis in SI.

Correction

A new pinion seal is now available from GMSPO for service on the vehicles referenced above. It is similar in design to the new pinion seal used in production beginning with vehicles produced for the 2008 model year. It is not interchangeable due to some slight dimensional differences.

Replace the pinion seal with the new design seal, which is included in the pinion seal kits listed below with their applications. The kits include a new pinion yoke and pinion nut, which should be used when replacing the seal, using the procedures in SI.

When replacing the pinion seal, make sure that the pinion bore is free of excess fluid that could get trapped before the yoke is installed. Install the new seal and yoke promptly, before excess fluid seeps into the area. It may be necessary to drain some or all of the axle fluid to assure that the pinion bore remains free of fluid during seal installation. This should prevent the lube from being trapped behind the dust shield.

If a vehicle has had a service axle installed that uses the new 2008 model design, it cannot use the pinion seal kits listed below because of dimensional differences.

Rear Axle Pinion Cartridge Casting # 6457038590

A service axle that uses the 2008 production style seal can be identified by a casting number visible on the pinion cartridge casting immediately behind the yoke. On a rear axle, the new design casting number is 6457038590. On a front axle, the casting number is 6507022390. See the pictures shown.

If the vehicle has had a replacement axle that has a pinion cartridge with one of these numbers, the pinion seal leak should be repaired using the current production pinion seal (GM P/N 25861283 for a rear axle, or GM P/N 19132939 for a front axle).

If the vehicle does not have front or rear drive module with a pinion cartridge as described above, it has the seal design used in 2007 and earlier model years, and should be repaired using the parts information below.

Part Number	Description	Flange (Yoke) Size/Axle	Application
19179935	Seal Kit, Differential Drive	96 mm/Rear	2003 Cadillac CTS 2004 Cadillac CTS w/ LA3 3.2L Engine 2004 Cadillac SRX w/ MV3, MX5 Transmission 2005 Cadillac SRX w/ MV3, MX5 Transmission (1st Design – VIN 50123823 and earlier) 2005 Cadillac STS w/ MV3 Transmission (1st Design – VIN 50206730 and earlier)
19179933	Seal Kit, Differential Drive	105 mm/Rear	2004 Cadillac CTS w/ LY7 3.6L Engine 2004 Cadillac SRX w/ M22, M82 Transmission 2005 Cadillac CTS 2005 Cadillac SRX w/ MV3, MX5 Transmission (2nd Design – VIN 50123824 and later) 2005 Cadillac STS w/ MV3 Transmission (2nd Design – VIN 50206731 and later) 2006 – 2007 Cadillac CTS / STS / SRX 2006 – 2007 Pontiac Solstice 2007 Saturn Sky 2007 Daewoo G2X 2007 Opel GT
19179934	Seal Kit, Differential Drive	86 mm/Rear	All Cadillac CTS-V, STS-V
19179936	Seal Kit, Differential Drive	Front Axle	All Cadillac SRX/STS with AWD