



## *Self-Leveling System*

# *SACHS Nivomat Shocks*



SACHS created Nivomat technology as a means to improve the safety and performance of vehicles loaded with extra weight resulting from luggage, towing or other materials. Nivomat self-leveling shocks restore the vehicle to its original ride height without the use of external pumps or other devices, improving handling, among other benefits.

ZF Services has direct replacement shocks for select vehicles originally equipped with the Nivomat system including Cadillac, Chevrolet, Chrysler, Dodge, GMC, and Volvo applications.

SACHS is a brand of ZF

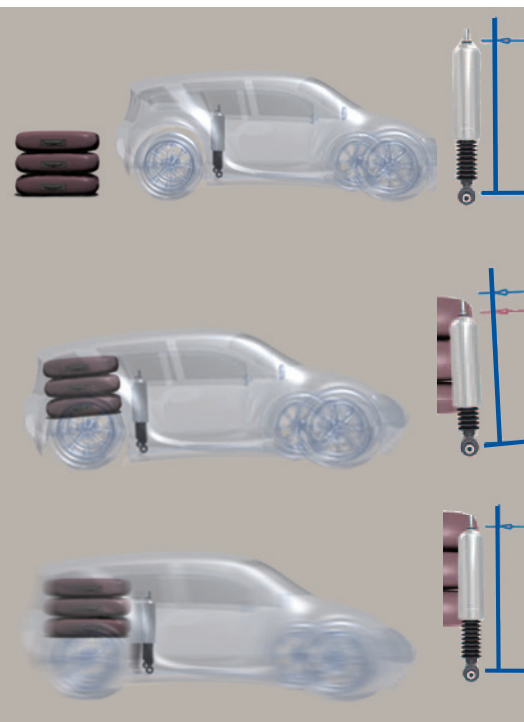
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**SACHS**

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**Standing:** Car unloaded and leveled

**Standing:** Car loaded and not leveled

**In Motion:** Car loaded and leveled within one hundred yards

## The Idea

Development of a ride-height control system that automatically adjusts a vehicle to its ideal ride-height without requiring an external pump system and offers optimal driving comfort and driving safety in all conditions.

A self-contained pumping system inside the Nivomat provides the energy necessary for adjusting the optimum height level, which is generated by the relative movements between the axle and vehicle body.

## Benefits of the Nivomat:

- Driving comfort and safety for all load conditions
- Improves roll stiffness at higher loading conditions
- No hydraulic or electric cables
- Constant vehicle height and ground clearance
- Optimum suspension operating range reduces wear on bearings and tires
- Maintenance-free
- Self-leveling corrects headlight beam angle for better visibility at night

Make	Model	Year	Location	SACHS P/N	OE #
CADILLAC	STS w/ 6 Cyl.	2009-2005	Rear	444 207	25769669
CADILLAC	STS w/ 8 Cyl.	2009-2005	Rear	444 208	25713754
CADILLAC	CTS-V w/ FE4 Suspension	2007-2004	Rear	444 225	25752922
CADILLAC	CTS w/ FE5 Suspension (07-06), CTS w/ FE3 Suspension (06-03)	2007-2003	Rear	444 226	15223046
CADILLAC	SRX w/ Soft Ride Suspension	2009- 2004	Rear	444 227	21992495, 25760167, 25754104
CHEVROLET	Suburban 1500 XL, Tahoe (All incl. XL (Exc. Z55 Auto Ride Suspension) and 2000 All New Style w/ ZW7 Self Leveling Rear Suspension (Exc. XL, Limited Edition, Z71, Z55 Auto Ride Suspension)	2006-2000	Rear	444 232	15756794
CHEVROLET / GMC	Avalanche 1500, Suburban 1500, Tahoe, Yukon	2006-2000	Rear	030 239	-
CHRYSLER / DODGE	Town and Country AWD, Grand Caravan AWD, Voyager AWD	2004-01	Rear	030 284	4743 231AA
CHRYSLER / DODGE	Town and Country FWD, Caravan 4 and 6 cyl FWD, Grand Caravan 6 cyl. FWD	2007-2001	Rear	444 233	4743 230AA
CHRYSLER / DODGE	Town and Country AWD, Grand Caravan AWD	2000-1999	Rear	444 236	4743 413AC, 4743 413AB
CHRYSLER / DODGE	300 All w/ AWD, Magnum AWD (08-05)	2009- 2005	Rear	444 228	4895 729AA
CHRYSLER / DODGE / PLYMOUTH	Town and Country FWD, Grand Caravan FWD, Voyager FWD	2000-1996	Rear	030 051	4743 412AC, 4743 412AB
CHRYSLER	Pacifica FWD	2008-2004	Rear	444 205	4725 865AB
CHRYSLER	Pacifica AWD	2008-2004	Rear	444 206	4766 854AB
CHRYSLER	300 SRT8 (RWD), Charger SRT8 (RWD- 2007 only)	2008-2005	Rear	444 229	4895 675AC
DODGE	Charger AWD (10-09), RWD (08-07), Magnum w/ RWD (08-06 SRT8)	2010-2006	Rear	444 224	4854 510AA, 4895 687AC
DODGE	Magnum All w/ RWD (Exc. SRT8)	2008-2005	Rear	444 237	4895 513AC, 4895 513AB
VOLVO	850 Series	1997-1993	Rear	170 496	9140391