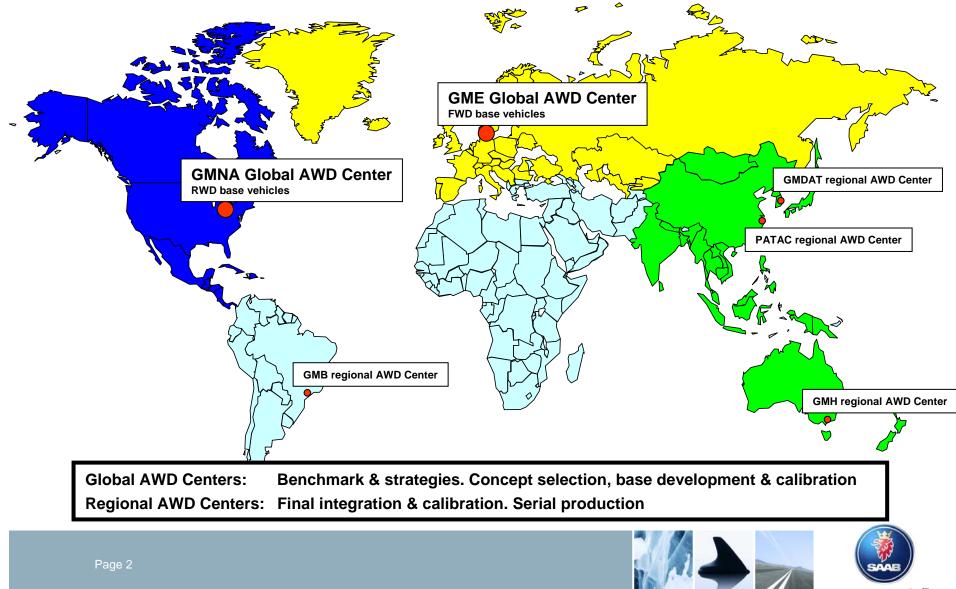
Driveline and Chassis of the Saab Turbo X

Matthijs Klomp Vehicle Dynamics Expo 2008-05-08





AWD Organization - Showcasing global strength



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Technical Data

- Engine 2.8L V6, twin-scroll turbo, VVT (inlet) Max. Power: 206kW @ 5300 rpm Max. Torque: 400Nm @ 1900-4500 rpm
- Driveline: Transverse mounted engine, Active-On-Demand AWD + eLSD
 6-speed manual or automatic transmission
- Suspensions Front: MacPherson Rear: four-link with self-leveling dampers
- Wheels, Tires: 18x7.5", 235/45R18 19x7.5", 235/40R19
- Brakes:

Hydraulic, dual circuit, vacuum booster. Discs: 345mm / 292mm (all ventilated)





Performance Data

- Acceleration 0-100 km/h [s]
 Sport Sedan: 5.7 (manual); 7.2 (automatic)
 Sport Combi: 5.9 (manual); 7.4 (automatic)
- Top Speed [km/h]
 Sport Sedan: 250 (manual); 250 (automatic)
 Sport Combi: 250 (manual); 250 (automatic)
- Fuel Consumption [l/100km]
 Urban / Extra Urban / Combined EU
 Sedan: M6 15.9/7.5/10.6; A6 18.0/7.4/11.3
 Combi: M6 16.5/7.8/11.0; A6 18.6/7.7/11.7







High torque, pre-emptive, active on demand AWD system with a unique rear eLSD (electronically controlled Limited Slip Differential)

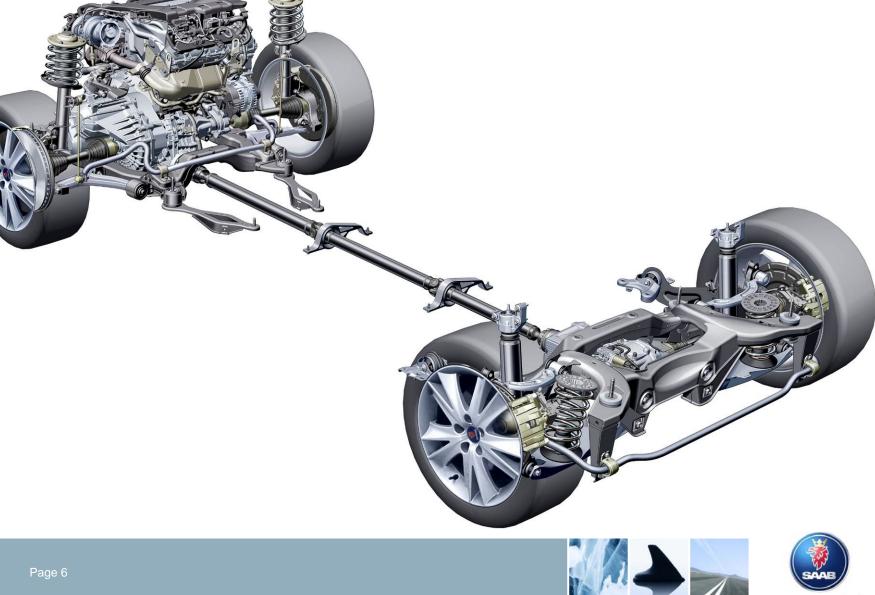
□ Improved acceleration

- □ Offer excellent driving dynamics traction, control, safety
- Provides excellent stability under all conditions

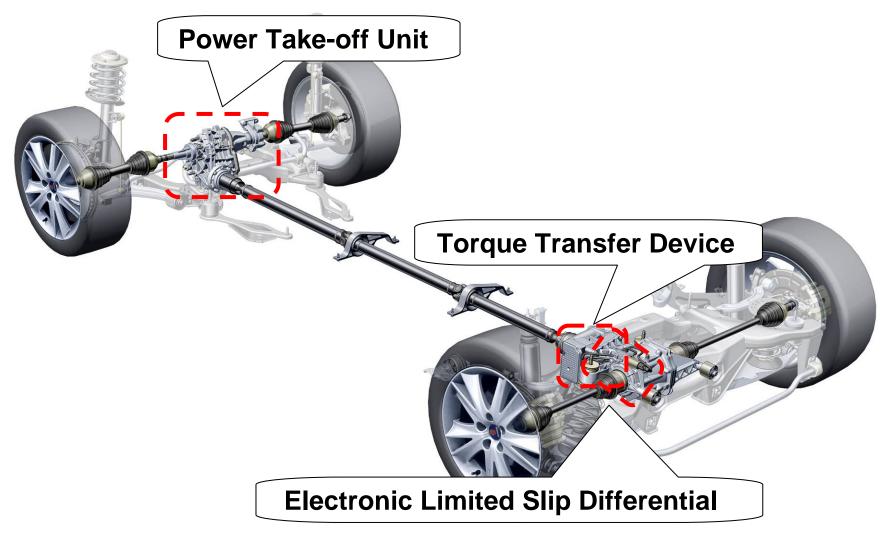




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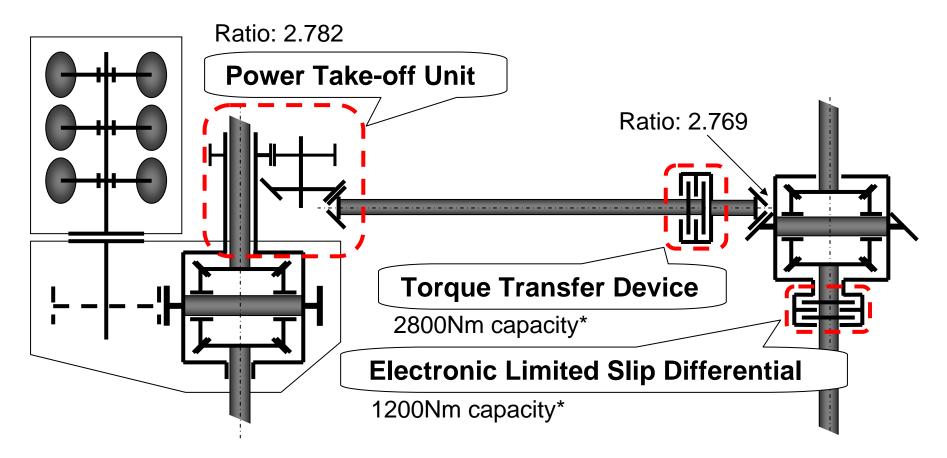








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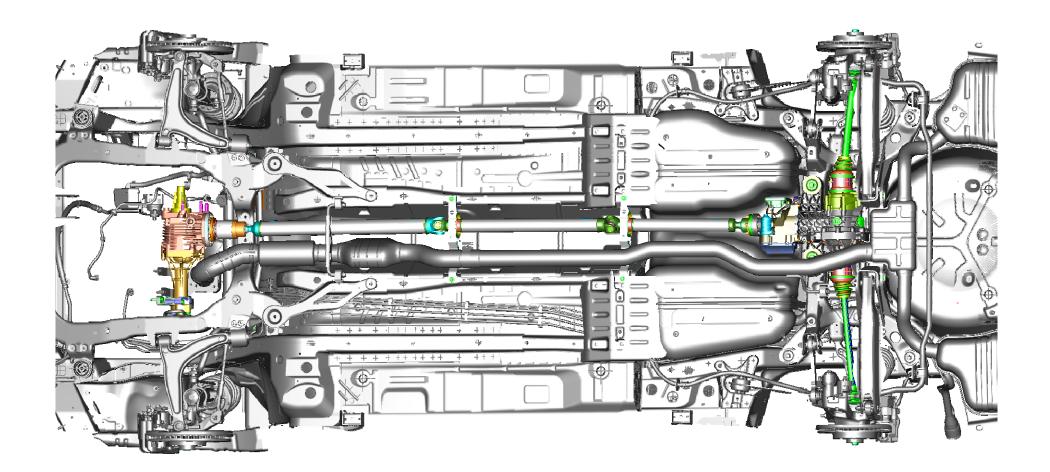
*equivalant wheel torque





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Underbody Package

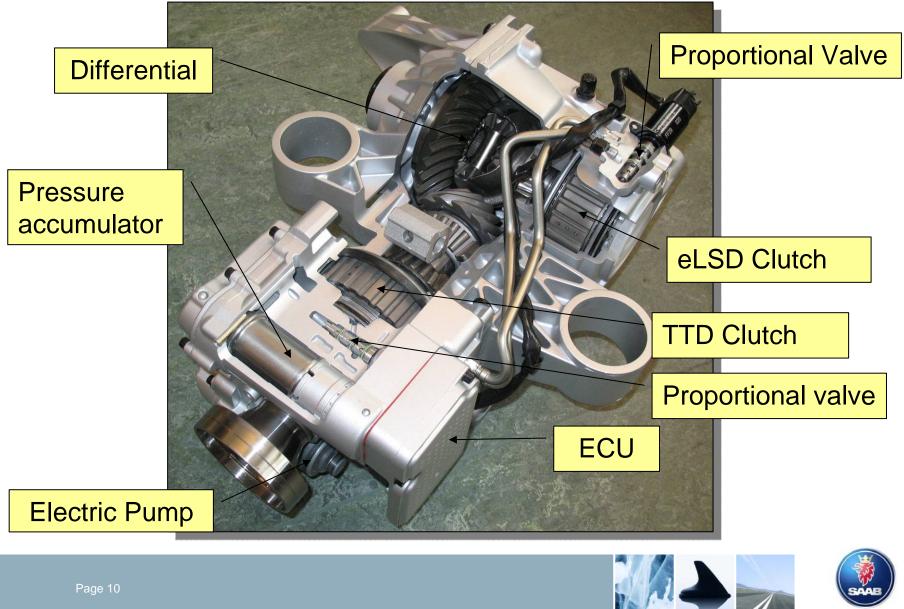






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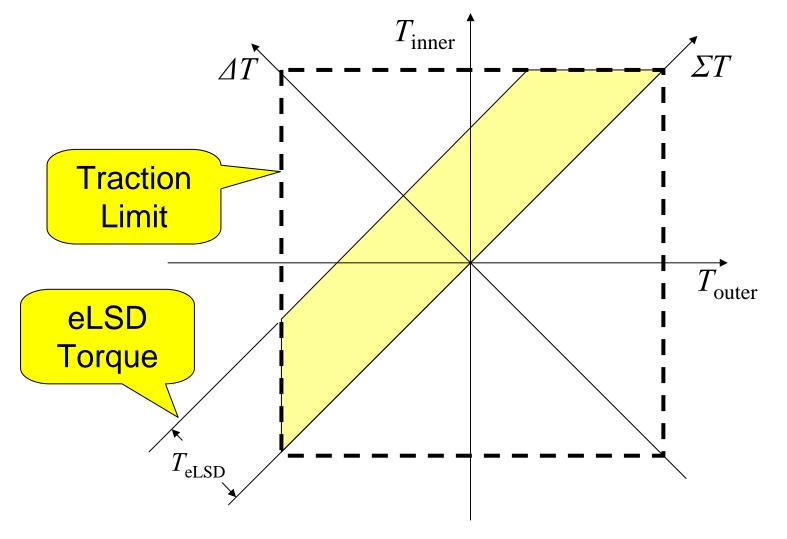
Rear Drive Module





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eLSD Principle

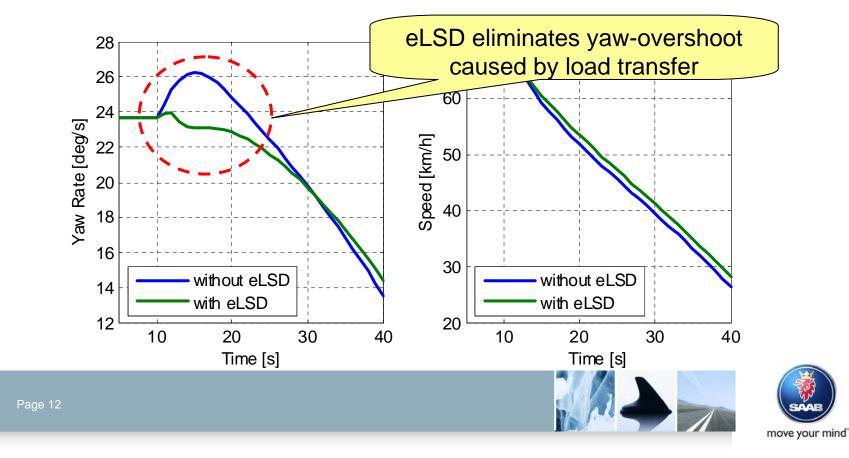






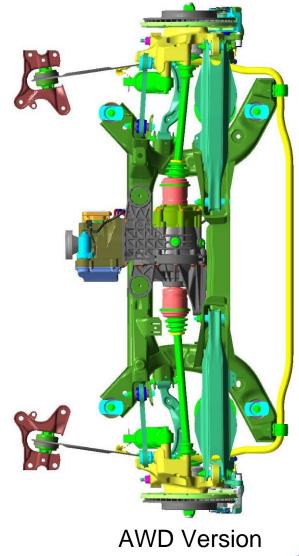
eLSD Yaw Damping – Throttle Release in Turn

- Speed = 70km/h
- Steering wheel angle = 90 deg.
- Engine braking with -0.1g at t=10s



Rear Suspension Development









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Some remarks...

"The system corrects the dynamic stability of the vehicle, something you physically experience" – Auto Motor & Sport

"A landmark car for Saab" - AutoCar

"... there is only one conclusion: The XWD works, and brilliantly-"- AutoCar

"It goes beyond the grip and balance you get with any all-wheeldrive system. The 2008 Saab 9-3 Aero XWD <u>engages your emotions</u> when you're at the wheel. It makes you care it's a Saab, something not uniquely different, but also <u>uniquely good</u>" - Edmunds



