



NASA Standards Inform Comfortable Car Seats

Johnson Space Center

*Nissan Motor Company
Franklin, Tennessee*



NASA Technology

- ◆ NASA examined the natural body posture (NBP), or the posture the human body naturally assumes in microgravity, to develop more comfortable spacecraft
- ◆ NASA documented the characteristics in the Man-Systems Integration Standards (MSIS) to design systems that support human health and safety

Partnership

- ◆ Scientists and engineers at Nissan Motor Company turned to NASA's NBP research as a starting point for the development of a new driver's seat
- ◆ The company used NASA's NBP as a benchmark for a comfortable, balanced posture, with the intention of lessening fatigue on a person's body
- ◆ Test results showed the seat improved blood flow and reduced physical exhaustion

Benefits

- ◆ Nissan debuted the seat in the 2013 Altima and has plans to include it in upcoming Nissan and Infiniti vehicles
- ◆ The technology will be applied to the driver's, front passenger's, and rear seats
- ◆ According to Nissan's research, the seats will make long car rides more pleasant