NASA Standards Inform Comfortable Car Seats

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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