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Research Project: Safer cars for India by





Alejandro Furas WP29, March 12th, 2014





Research Project: Safer cars for India - highlights

- The most basic safety equipped version available in the market was selected for testing.
- The same model, same equipment, was tested according to: United Nations Regulation 94 and to Latin NCAP 2013 assessment protocols.
- 5 popular and important models were selected for testing
- I of the selected manufacturers changed production of its car and sponsored an extra test to show its improvements.



Models tested for this Research Project: Safer cars for India









SAFER CARS FOR IN	GLOBAL NCAP	
UN-R94 RESULTS	$\mathbf{\mathbf{\mathcal{S}}}$	
🥨 Volkswagen POLO	X	NOT PASS
🝰 Maruti Suzuki ALTO 800	×	NOT PASS
Sord FIGO	×	PASS
Hyundai i10	×	NOT PASS
Tata NANO	×	NOT PASS
🛞 Volkswagen POLO	✓2	PASS





Research Project: Safer cars for India Summary of NCAP results

RESULTS 2013	×		۲
🛞 Volkswagen POLO	√2	★★★★ ☆	****
🛞 Volkswagen POLO	×	***	****
🔲 Maruti Suzuki ALTO 800	X	****	******
Sord FIGO	X	****	******
Hyundai i10	X	습습습습	*****
Tata NANO	×	슈슈슈슈	



VW Polo + 2 Airbags











29.91 nax. 49.00 - Child









Front passenger

Driver



Hyundai i10 - NO Airbags



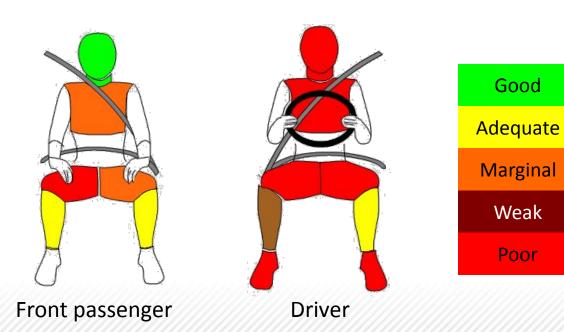














Maruti Suzuki Alto 800 - NO Airbags

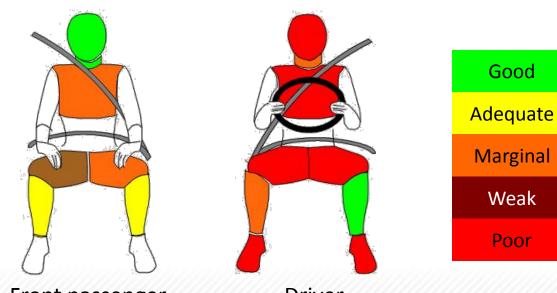












Front passenger

Driver



MARUTI SUZUKI ALTO 800 - NO AIRBAGS

August | 2013

64

km/h





0.00 max. 17.00 - Adult





Valid for: Indian Market Car made in India





TATA Nano - NO Airbags



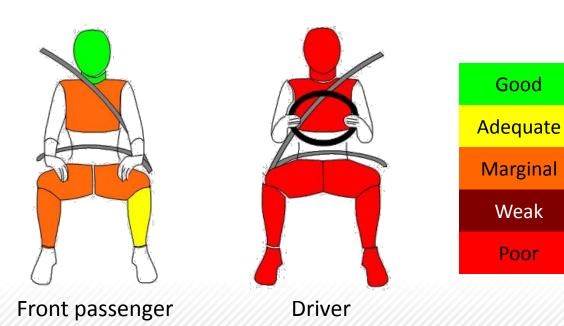
















Valid for: Indian Market Car made in India







Conclusions





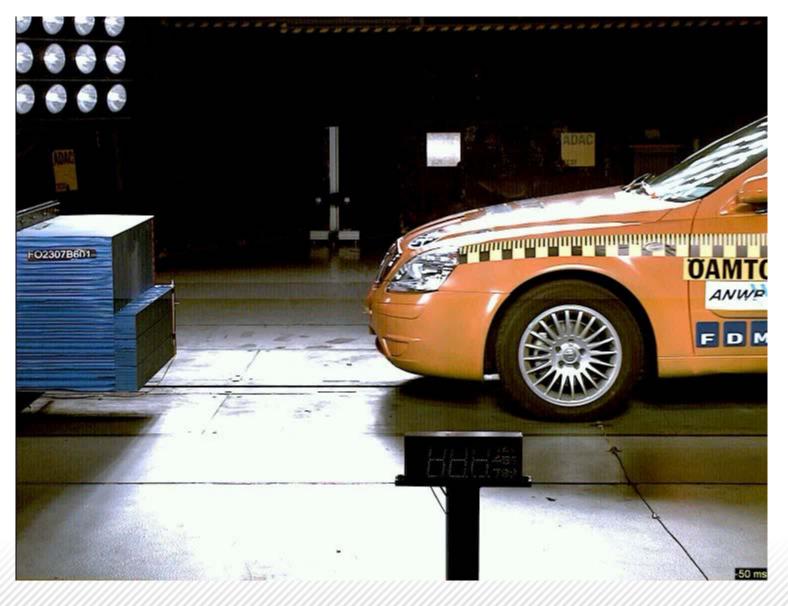
Conclusions: Adult Occupant protection

- Bodyshell integrity is critical for the protection of occupants even in cars fitted with airbags. Three of the five cars selected by Global NCAP for the Research project showed unstable body shells in the NCAP crash test. Polo and Figo showed stable structures
- The absence of airbags showed high risk of life threatening injuries for the passengers in a crash.
- The tested cars showed low scores in the leg areas of the adult occupants.



Bodyshell integrity is critical for the protection of occupants even in cars fitted with airbags.







Indian cars reach 4 stars in Latin America (Suzuki Celerio)











Conclusions: Child Occupant protection

- Protection of child occupants is low because of the marginal to poor protection offered by the CRS, the incompatibility car-CRS and the poor CRS *installation* instructions.
- Acceptable dynamics in child protection performance was also found in cars with weak structures and less developed restraint systems. Body shell deformation in the front reduces energy transfer to the rear seat passengers.





General Conclusions - Recommendations

- Solution UN R-94 Global NCAP recommends to implement Regulation UN R-94 mandatory for all cars.
- Global NCAP recommends all governments to make CRS use and technical standard approval for CRS mandatory.
- Global NCAP promotes the use of CRS in cars and strongly recommends closer cooperation between car manufacturers and CRS manufacturers.
- Global NCAP recommends Automobile clubs, Consumer organizations, car and CRS manufacturers as well as governments to work on better adult and child occupant protection in road vehicles.





Thank you very much for your attention.

www.globalncap.org





Research Project: Safer cars for India Summary of NCAP results

RESULTS 2013	×		۲
🛞 Volkswagen POLO	√2	★★★★ ☆	****
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Sord FIGO	X	****	******
Hyundai i10	X	습습습습	*****
Tata NANO	×	슈슈슈슈	