

Repair kit - Alternative proposal for Spare wheel

19th CSR meeting, 3rd July 2012



Repair kit - Alternative proposal for Spare wheel

Background

- Most of the Indian customers are finding difficulty to replace puncture tyres while driving on road with the use of spare wheel available in the vehicle. It is commonly noticeable with the first time car buyers. Approximately 68% of the car buyers are first time car buyers.
- Repair kits will allow the vehicle users to rectify puncture in minimum time without replacing with the spare wheel.
- Many countries are not mandating the use of spare wheel as a regulatory requirement.
- Countries like Brazil, having similar road conditions in India allows the use of Repair kit.
- At present, as per CMVR 138, Spare wheel is mandatory at the first sale of vehicle.
 - No provision for Temporary spare tire, Run flat tire, Repair kit
- AIS 110 (to be notified)
 - Requirements for Temporary spare tire, Run flat tire, Run flat system
 - No provision for the use of Repair kit

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Details of Repair kit

- There are different kinds of Repair kits available in the market.
- Our proposal is to use of an Repair kit which suitably meets the requirements of the customers in the incident of tyre puncture.
- This can be considered as an alternate option to the use of Spare wheel.
- The Repair kit consists of a powerful 12 volt air compressor, integrated with an air pressure gauge and filled with latex liquid sealant packaged in a compact light weight unit, easy to store in the vehicle.
- In the incident of tyre puncture, with the use Repair kit, the sealant poured into the tire along with the compressed air, the sealant seals the punctured spot in the tire tread.
- The kit can also be used as a standalone compressor without the sealant activated.
- The sealant used consists of chemicals which includes Ethylene Alcohol, Colophony with Rubber Latex.

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Spare Tire / Repair kit - Regulation worldwide

	EU	USA	China	Brazil	India	Russia	Indonesia	GCC	Israel	Canada	Mexico	Japan
Spare wheel Mandatory	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	NO
Is puncture Kit allowed (as per regulation) or used (market) as an alternate for spare wheel	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES	YES	YES

- Almost all the countries in the world allows usage of Repair kit
- In European countries, it is not mandatory to use spare wheel
- Countries similar to India (like Brazil) allows the use of Repair kits

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Proposal

To mandate the use of Repair kit (meeting with specific requirements)

- Amend CMVR 138 to include Repair kit

*In the said rules, in rule 138, in sub-rule (4)-
for clause (a), the following shall be substituted, namely:-*

“(a) In case of vehicles other than motorcycles, a set of spare bulbs for head lamps and fuses, and a spare wheel, ready for use:

Provided that in case of M1 and N1 categories of vehicles, use of temporary use spare wheel shall be permitted and the provision of ready to use spare wheel shall not be mandatory if such vehicles are fitted with Run Flat Tyres or Repair kit (Only M1 categories) as standard fitment.

Note: The underlined part is to be amended by GSR 61 (E)

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Thank You

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