

Survey on the Effectiveness of Safety Belt Reminder System

Japan December 2006



1. Objectives



- ♦In Japan, it has been mandatory since March 2005 to equip the driver's seat of passenger cars with the safety belt reminder system (SBR) (mandatory for new-model vehicles since September 2005).
- **◆**To confirm the effect, following survey has been conducted.
 - The rate of safety belt use with / without SBR
 - > How and when SBR is activated
 - **▶** Positive and negative evaluations of its functions
 - **▶** Passenger seat SBR effect for future reference

2. Method of Survey



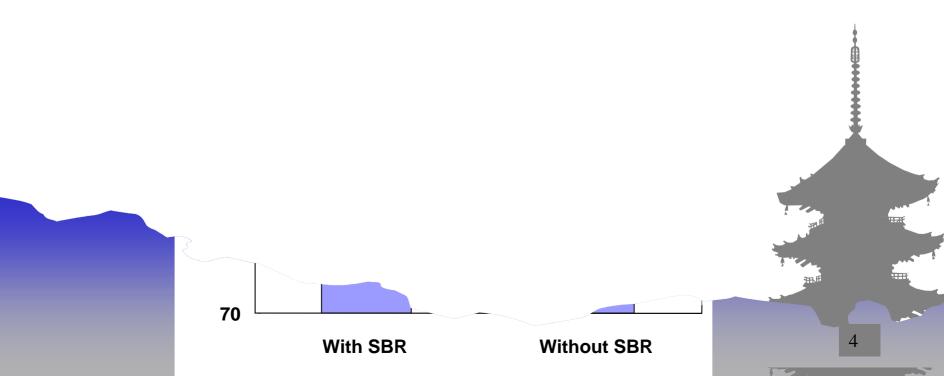
- The 6448 vehicles driver's use/non-use of safety belt was visually checked at parking lot entrances of "road station of arterial roads (speed limit 60 km/h)" and "shopping mall".
- Passenger cars were selected with / without SBR equipped.
- 268 SBR-equipped vehicles users were interviewed.

Road station of arterial road



Shopping Mall

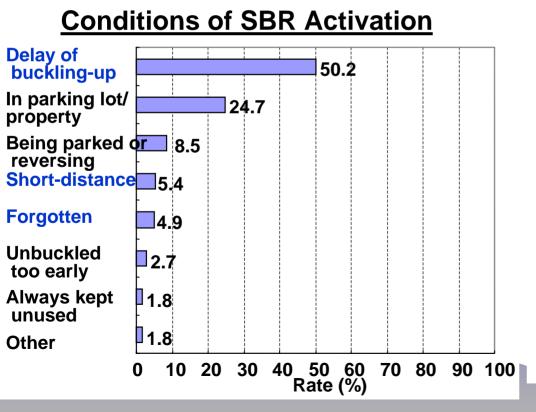


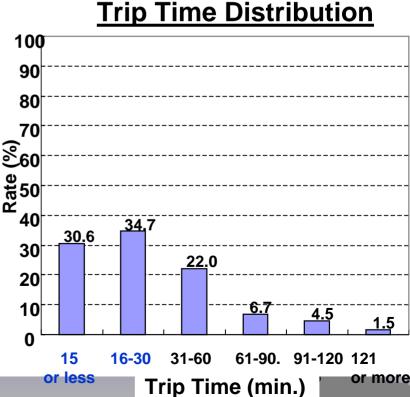


4. How and when SBR is activated



- Most of activate condition was in short term such as "delay of buckling-up" and "Short distance".
- 65.3% trip time was with in 30 min.

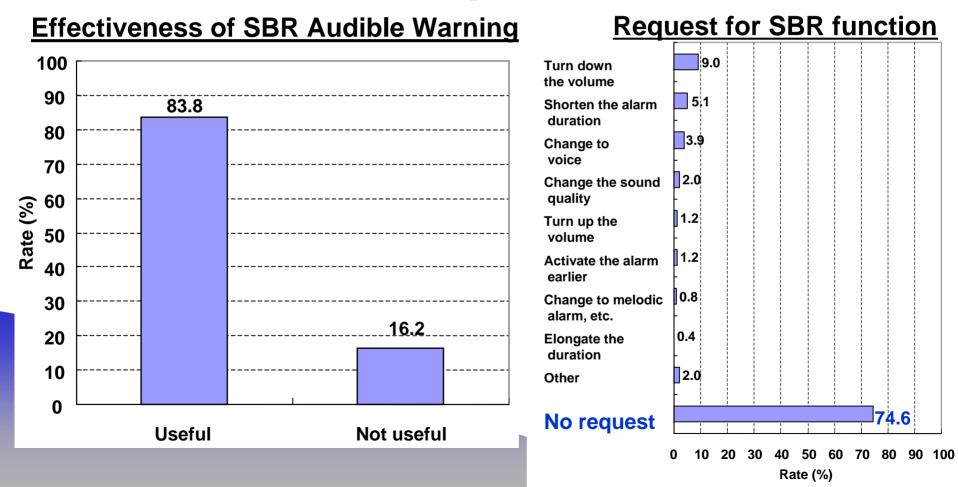




5. Positive and negative evaluations of its functions



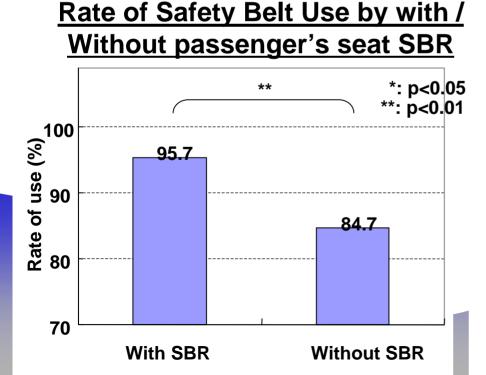
- Approx. 84% of the users answered that the SBR audible warning was useful.
- 74.6% users answered "No request" for SBR function.

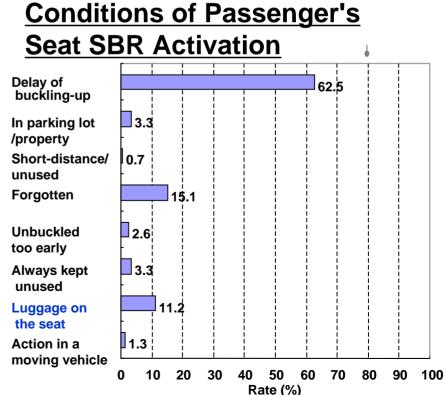


6. Passenger seat SBR effect for future reference



- 2443 (38%) vehicles had passenger occupants. 116 (4.7%) vehicles were equipped with passenger seat SBR.
- The Safety belt use with SBR vehicle was +11.0% (95.7% \leftarrow 84.7%) higher than without vehicles.
- 11.2 % was activated by "Luggage on the seat".





7. Summary



- ◆ The rate of the driver's safety belt use with SBR vehicles were +7.2 % higher than without vehicles. Therefore, SBR is very effective to increase the driver's safety belt use.
- **◆** SBR was activated mostly in short term such as delay of buckling-up or short distance driving. Therefore, Short term deactivation could considerably reduce the effective.
- ♦ With regard to the reference investigation of passenger seat SBR, it was also effective, however, there was still a issue of caused by putting luggage and seating frequency. Therefore, further discussions for technical requirement and effectiveness study are necessary.