

Human Factors Research

Backover Prevention Research

- 1) Examination of driver behavior with rearview video systems during naturalistic backing maneuvers and response to unexpected object
- 2) Measurement of the rear visibility field of view of a set of contemporary vehicles.



Crash Warning Interface Metrics

- Develop test protocols and related metrics of driver performance to evaluate the usability of the Driver/Vehicle Interface for Advanced Collision Prevention Systems



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Enhanced Safety Belt Reminder Systems

- What is effectiveness of existing systems?
- What are the characteristics of effective and acceptable systems?
 - Flashing lights
 - Extended audible warnings
 - Text displays
 - ??



Reducing Unsafe Behaviors of Novice Teen Drivers:

- Evaluate requirements for effective and acceptable systems to control speeding and seat belt use
- Compare in-vehicle feedback vs automatic control

Speed Control



Teen Key to automatically limit unsafe behaviors



Requirements for Effective Fuel Economy Displays

- Evaluate interface characteristics
- Determine display effect on changing driver behavior in terms of
 - Improving fuel economy
 - Improving safe behaviors

