

INTEGRATION OF REARVIEW VIDEO SYSTEMS INTO THE U.S. NEW CAR ASSESSMENT PROGRAM

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Overview

- Rearview Video Systems (RVS) added to the New Car Assessment Program (NCAP)
- Program Overview
- SaferCar.gov Design Changes
- Test Procedure
- Performance Criteria
- Consumer Information Status

Steps To Adding RVS to NCAP

- Request for Comments
 - *Federal Register*, June 26, 2013
 - 30-day comment period
 - Comments from safety advocates, equipment suppliers, vehicle manufacturers
- Test procedure written
- Final Decision Notice with Test Procedure
 - *Federal Register*, September 30, 2013

Documentation of the program

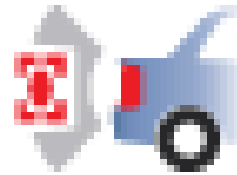
- Initial documents
 - www.regulations.gov
 - Docket: NHTSA-2013-0076
- Test Procedure in two locations:
 - Docket NHTSA-2013-0076-0022
 - www.safercar.gov/resources

RVS NCAP Phase-in

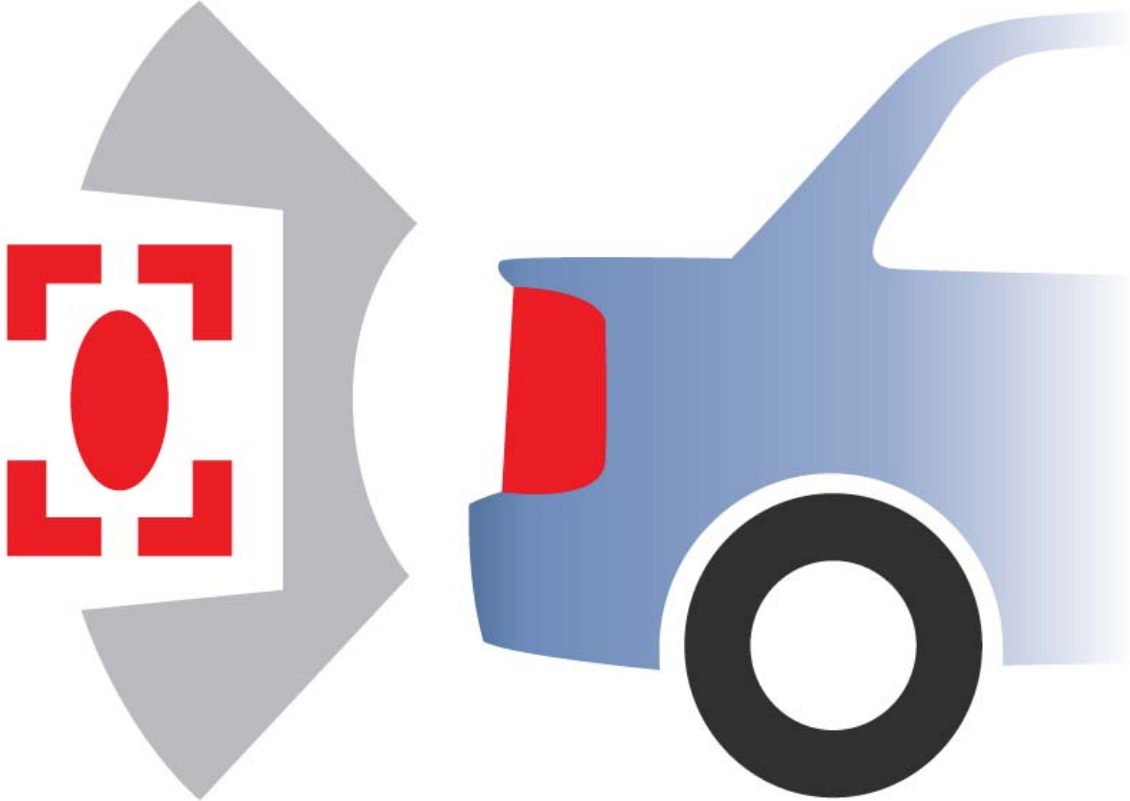
- Phase 1
 - All vehicles with “rearview video systems” are listed by make and model on the “Safety Features” area of SaferCar.gov
- Phase 2
 - Manufacturers may self-validate rearview video systems following the NCAP test procedure
 - “Recommended” icon will be added to the vehicle listing on page 1 of SaferCar.gov for any vehicle that NHTSA can confirm meets the NCAP criteria

Safecar.gov Design Changes

- ESC deleted as “recommended” in 2014 NCAP website
- “Advanced Safety Features” box added to “Safety Features” tab, 2nd page
- “Rearview Video System” added to the new Advanced Safety Features, including “Standard” or “Optional”
- Populated “Safety Features” with data already available
- Space for the RVS icon on page 1 used the ESC space
 - ESC still appears in MY 2013 and older vehicles
- NHTSA designed the icon
- Icon added to icons key



Icon for SaferCar.gov




Safety Features view

2014 Buick Lacrosse 4 DR AWD PRINT

Overall Rating	Not Rated	 Vehicle Test Weight: 4255 lbs. Images/Videos
 Frontal Crash	★★★★★	
 Side Crash	Not Rated	
 Rollover	★★★★☆	

Recommended Advanced Technology Features ?



















Rearview Video Systems: <input type="checkbox"/>	Forward Collision Warning: Optional <input checked="" type="checkbox"/>	Lane Departure Warning: Optional <input checked="" type="checkbox"/>
 View Video	 View Video	 View Video


Note: Electronic Stability Control (ESC) is now a required safety feature on vehicles with a gross vehicle weight rating of 10,000 pounds or less. Thus, beginning in Model Year 2014, ESC has been removed from the list of 'Recommended Technologies' and 'Rearview Video Systems' has been added.

Safety Issues **Safety Features**






Advanced Safety Features <input type="checkbox"/>	Air Bags <input type="checkbox"/>
Rearview Video Systems *: Standard	Head Protection: Driver, Front Passenger, Rear Seat
Seat Belts and Head Restraints <input type="checkbox"/>	Torso Protection: Driver, Front Passenger, Rear Seat
Dynamic Head Restraint: Not Available	Pelvis Protection: Driver, Front Passenger, Rear
Advanced Belt Feature: Standard	

Recommended Technologies view

Year/Make/Model	Overall	Frontal Crash	Side Crash	Rollover	Recommended Technologies	Compare
2014 Buick Lacrosse 4 DR AWD	Not Rated	★★★★★	Not Rated	★★★★★	 	 Add
2014 Buick Lacrosse 4 DR FWD	Not Rated	★★★★★	Not Rated	★★★★★	 	 Add
2013 Buick Lacrosse 4 DR AWD	★★★★★	★★★★★	★★★★★	★★★★★		 Add
2013 Buick Lacrosse 4 DR FWD	★★★★★	★★★★★	★★★★★	★★★★★		 Add
2012 Buick Lacrosse 4 DR AWD	★★★★★	★★★★★	★★★★★	★★★★★		 Add
2012 Buick Lacrosse 4 DR FWD	★★★★★	★★★★★	★★★★★	★★★★★		 Add
2011 Buick Lacrosse 4 DR FWD	★★★★★	★★★★★	★★★★★	★★★★★		 Add
2011 Buick Lacrosse 4 DR AWD	★★★★★	★★★★★	★★★★★	★★★★★		 Add



Displaying 1-8 of 8 Results

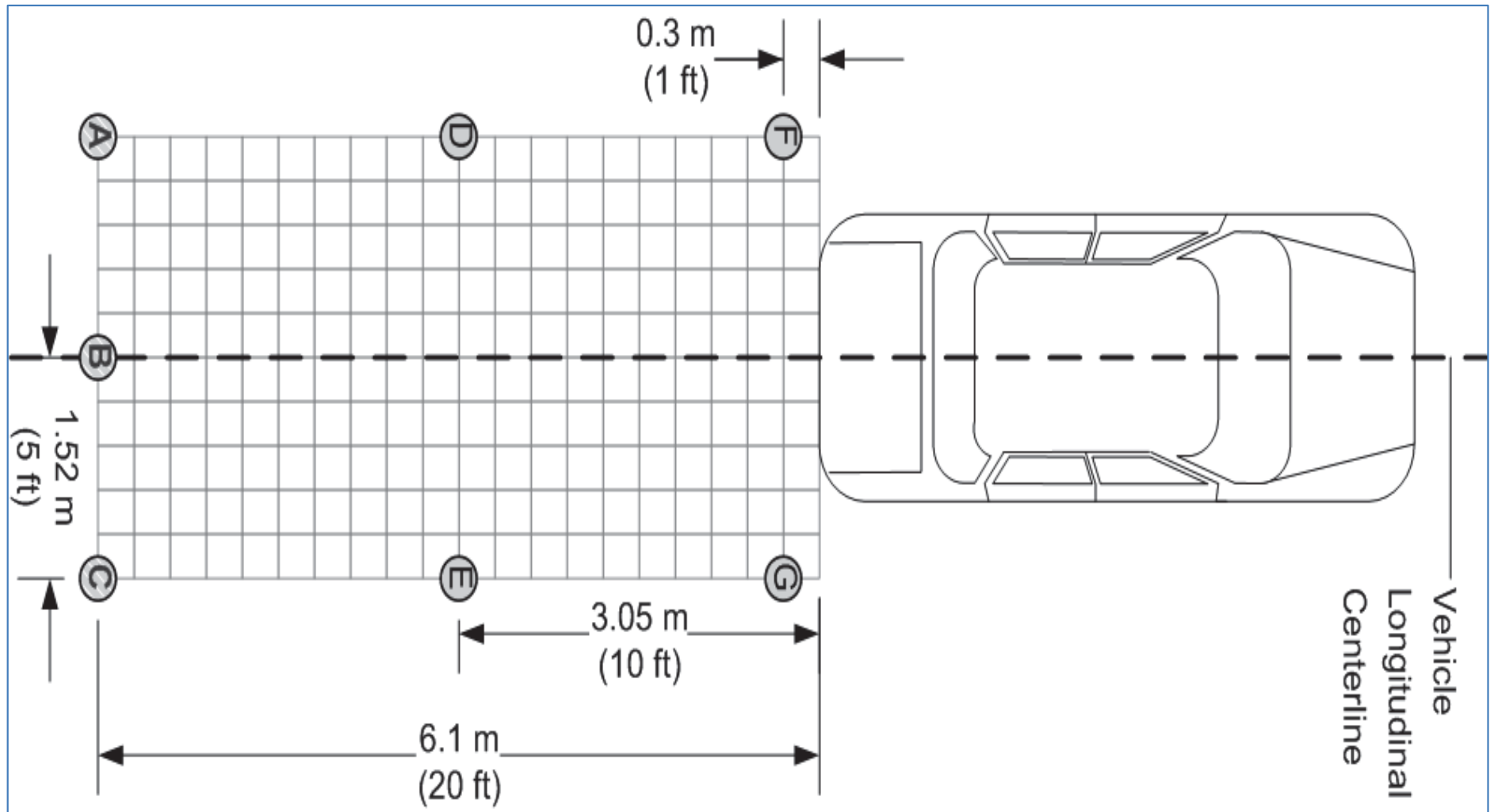
Key


 Electronic Stability Control
 
 Forward Collision Warning
 
 Lane Departure Warning
 

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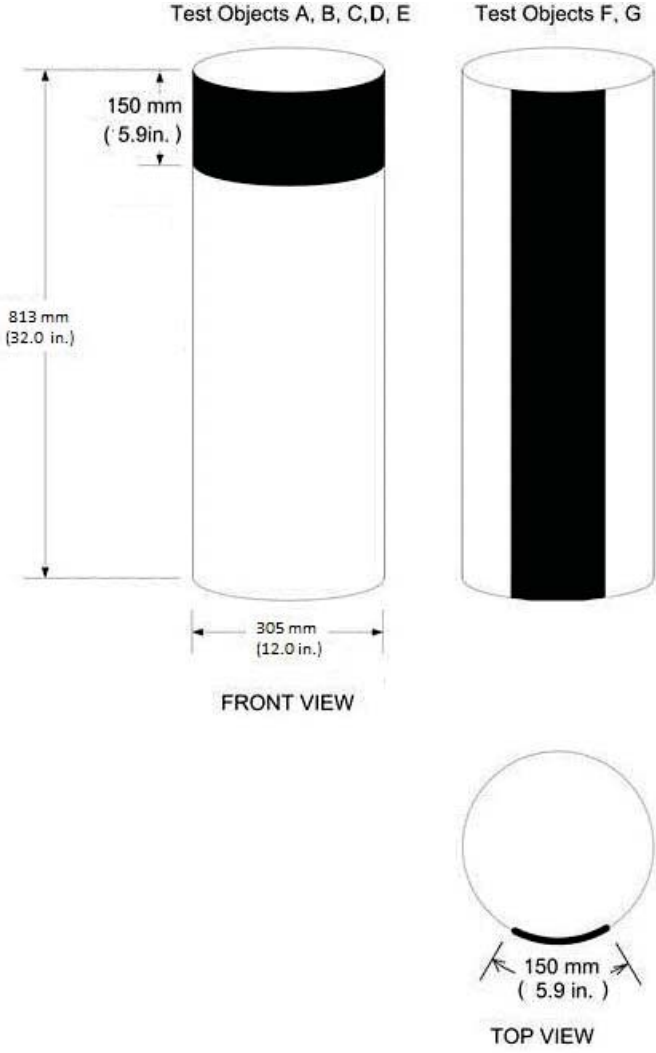
Test Procedure

- Test procedure (NCAP TP) published Sept. 30th and is publically available in two locations:
 - Docket NHTSA-2013-0076-0022
 - www.safercar.gov/resources
- TP is written to guide NHTSA contractors through system performance evaluations
- To achieve “Recommended” status, manufacturers may submit data indicating their RVS meet NCAP performance criteria

Test Setup



Test Procedure Objects to be detected



Camera setup for Video Screen Photo



NCAP Performance Criteria

- Does the video appear within 2 seconds after “Reverse” is selected?
- Are the entire widths of the two 150 mm black stripes on each of the two objects closest to the rear bumper visible on the video screen?
- Is the Visual Angle (size of the objects) at least:
 - a) the average visual angle of all three test objects located at positions A, B and C (farthest from the vehicle) not less than 5.0 minutes of arc ; and
 - b) the visual angle for each individual test object (A, B, C) not less than 3.0 minutes of arc?

Consumer Information Status

- Phase 1 – All systems listed on SaferCar.gov
 - Posted on September 30
 - 508 vehicle **trim lines**
 - 140 with backup cameras – standard
 - 305 with backup cameras – optional
 - 63 without backup cameras
- Phase 2 – Systems that have reported passing the NCAP criteria
 - Open season for Phase 2 began September 30, 2013