



PRESENTED BY DOUG KELLY AND JAKE RODENROTH – ASTECH™

3/7/2018

MAZDA



BLIND SPOT MONITOR

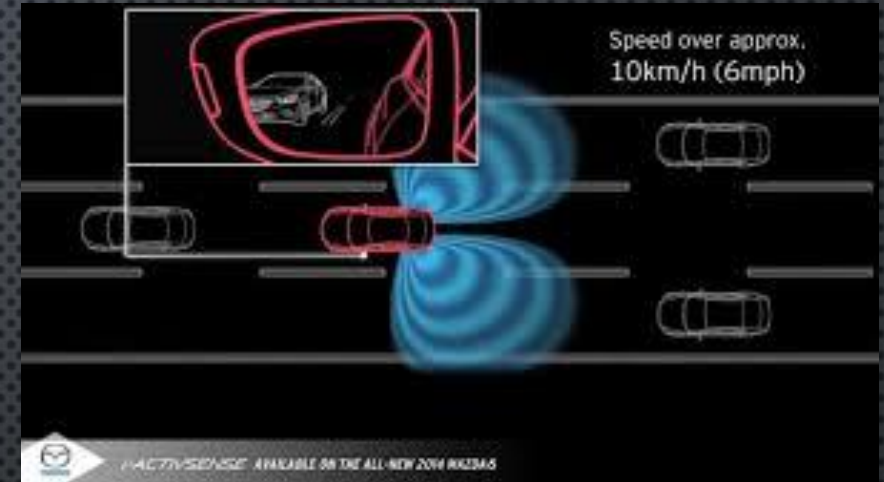
Mazda Blind spot systems (BSM)

- **Mazda** currently has three versions of BSM
 - All have the same name (advanced BSM)
 - All use the same icons and indicators
 - Vehicle detection pattern is different between Version 1 and Versions 2 & 3
 - SPEED OVER 6 MPH
 - All part of I-Activsense



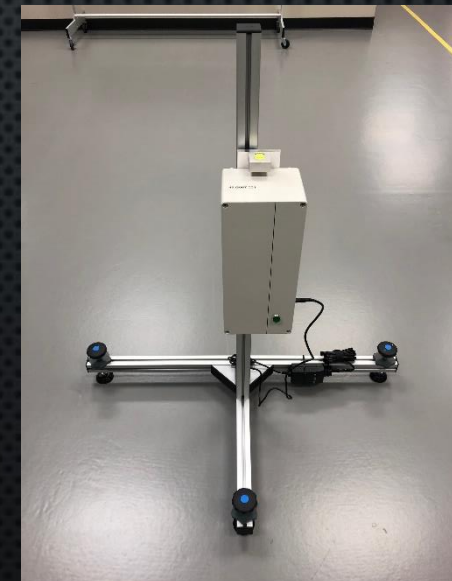
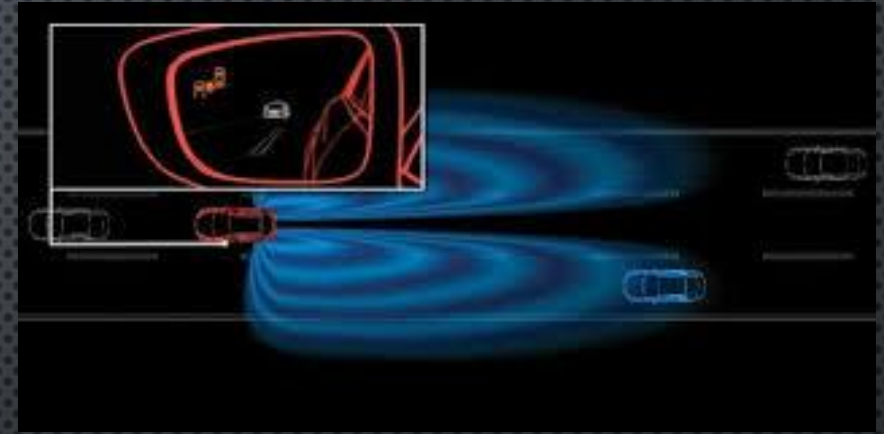
BSM Version 1

- Mostly on models prior to 2016
- Radar based basic detection
- Sensing area approximately 23ft
- Unable to detect speed or distance
- Only senses a vehicle in its detection area
- Requires reflector for radar test



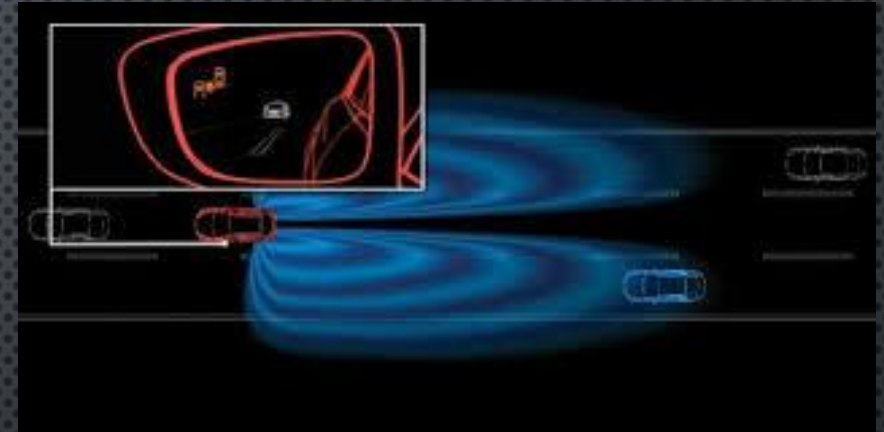
BSM Version 2

- 2016-2018 CX-3 and MX-5
- Doppler Radar based basic detection
- Sensing area approximately 164ft
- Detects speed and distance
- Senses a vehicle as it enters and passes thru detection area
- Requires Doppler simulator for radar test



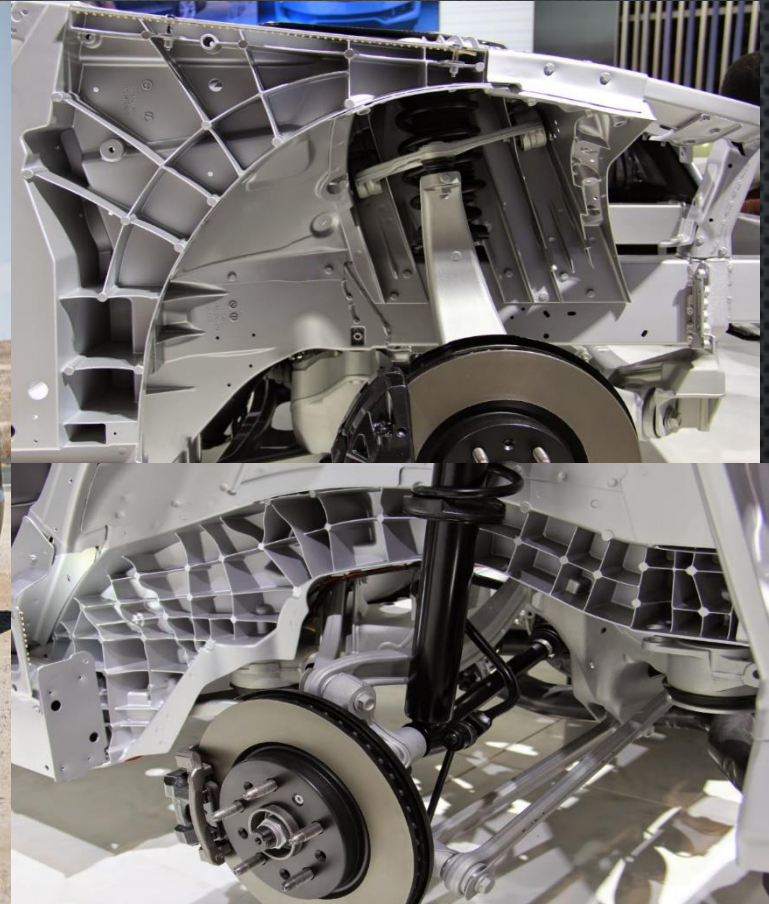
BSM Version 3

- 2016 -> CX-9 AND FUTURE MODELS
- Doppler radar based basic detection
- Sensing area approximately 164ft
- Detects speed AND distance
- Senses a vehicle as it enters and passes thru detection area
- Requires reflector for radar test





2018 Cadillac CT6



2018 Cadillac CT6

Bose® Panaray Sound System





2018 Cadillac CT6

2018 CT6 SEDAN

[HIGHLIGHTS](#)

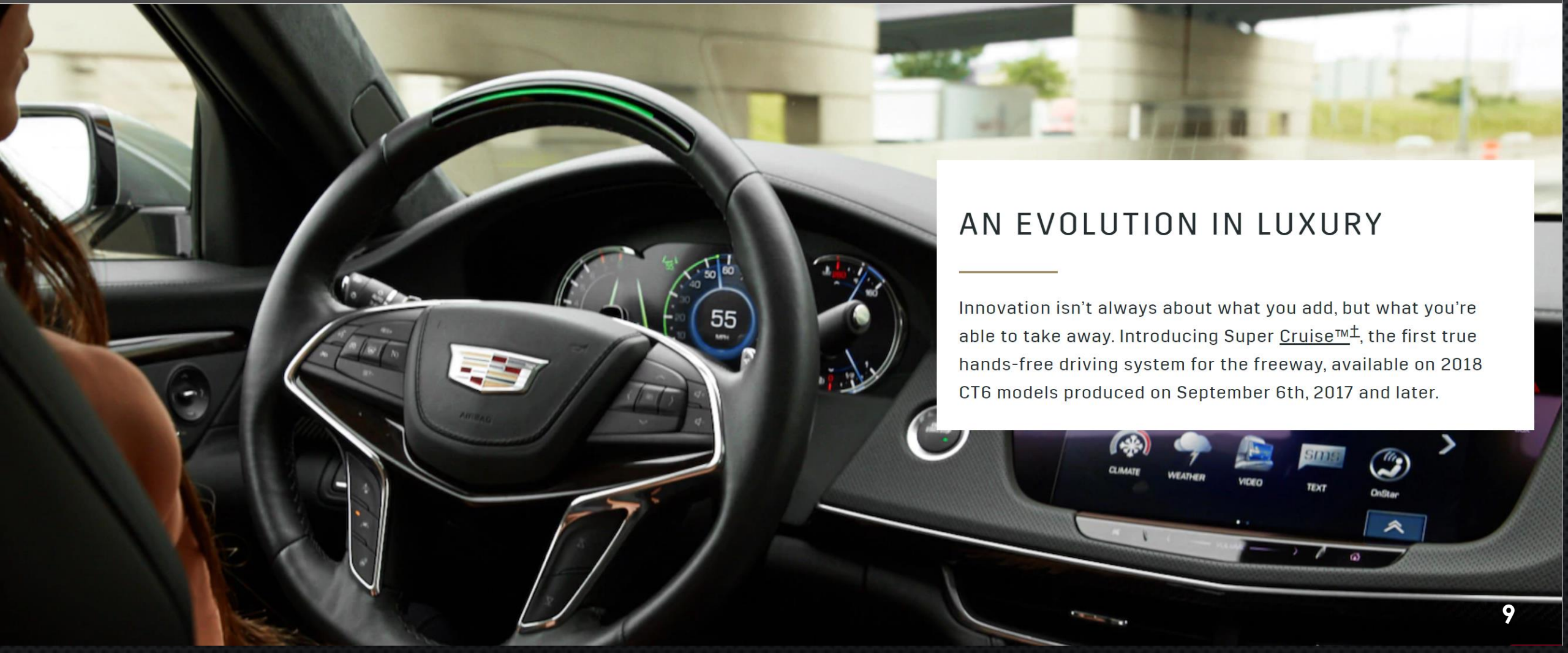
[FEATURES](#)

[GALLERY](#)

[TRIMS](#)

[SPECS](#)

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AN EVOLUTION IN LUXURY

Innovation isn't always about what you add, but what you're able to take away. Introducing Super Cruise^{TM±}, the first true hands-free driving system for the freeway, available on 2018 CT6 models produced on September 6th, 2017 and later.



2018 Cadillac CT6

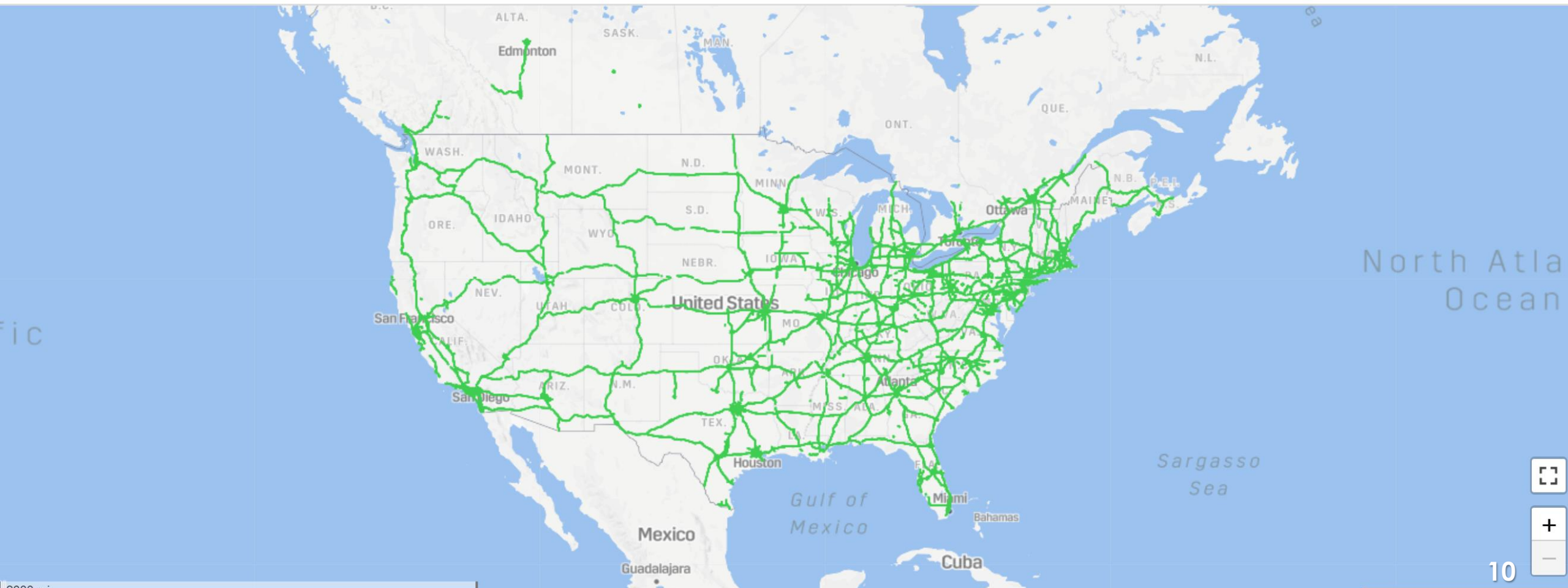
DISCOVER CADILLAC

INNOVATION

PERFORMANCE

CRAFTSMANSHIP

SUPER CRUISE™





Audi A8



2018 Audi A8 (concept)
Release in fall

Mild-Hybrid 48 Volt-Antriebsstrang

Mild hybrid 48 volt drivetrain
05/17



48 volt electrical system



Audi A8



Electric supercharger

Audi V6 TDI mit elektrischem Verdichter

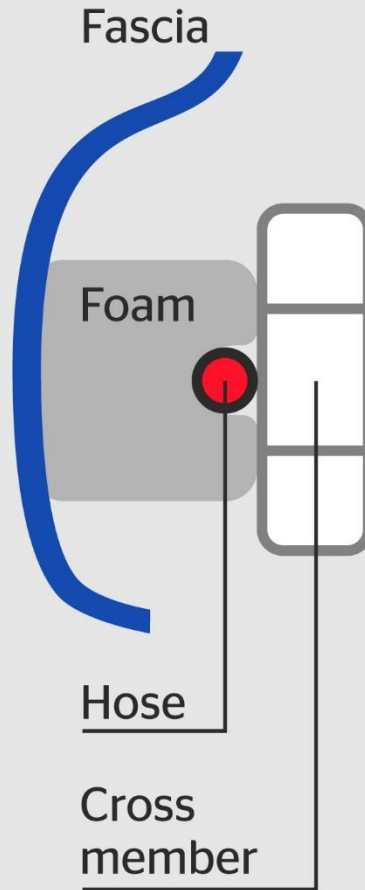
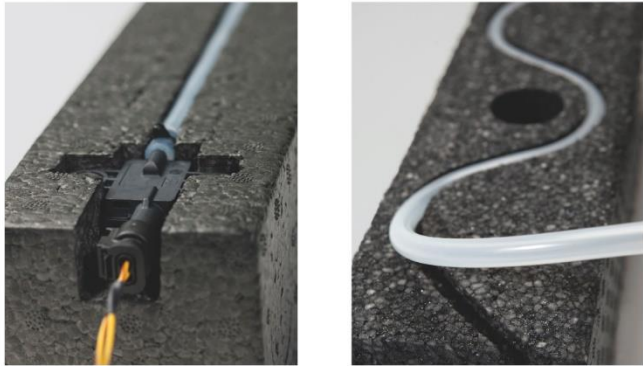
Audi V6 TDI with electric compressor
07/14

Audi



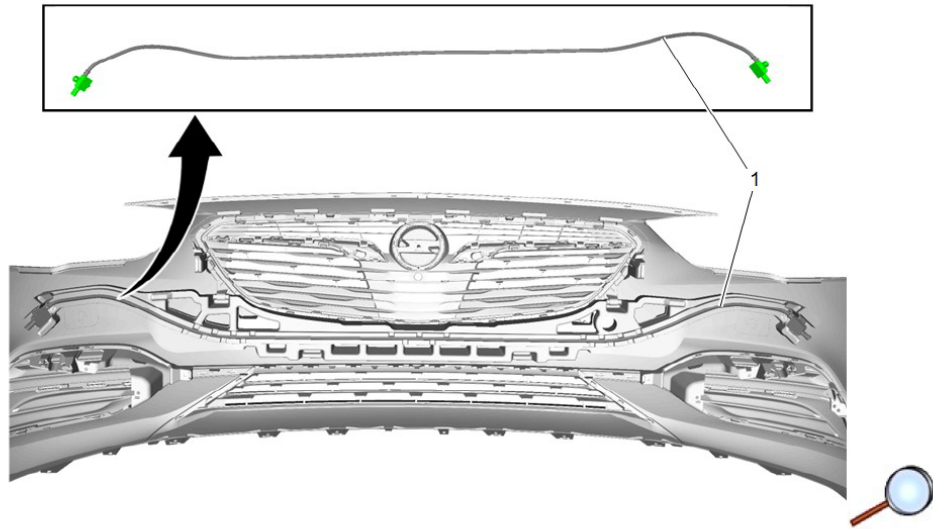
1st engine of its kind in a production vehicle

2018 Buick Regal



"Rope" Impact Sensor

Pedestrian Impact Detection Sensor Replacement - Front Upper Beam



Pedestrian Impact Detection Sensor Replacement - Front Upper Beam

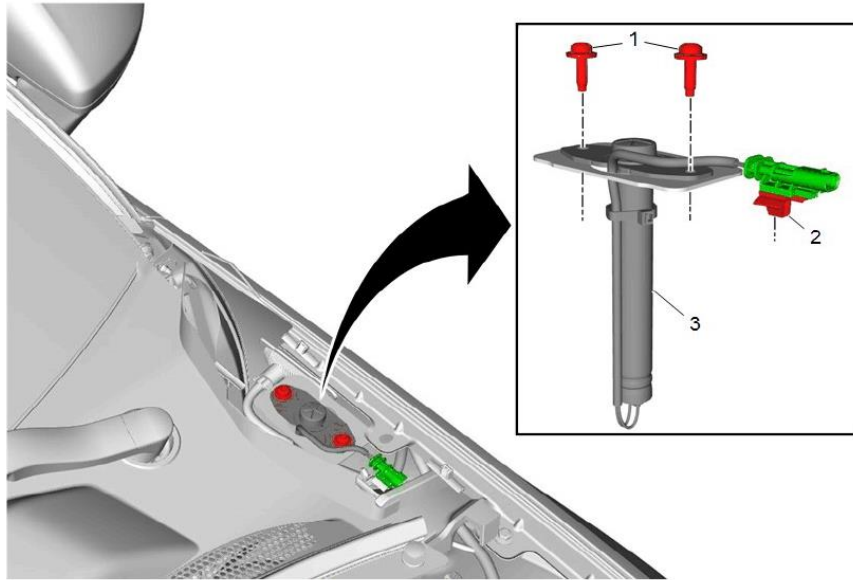
Callout	Component Name
Preliminary Procedure Front Bumper Fascia Replacement	
1	<p>Pedestrian Impact Detection Sensor Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the electrical connector. 2. Carefully remove the pedestrian impact detection sensor from the front bumper fascia energy absorber. 3. Enable the system. Pedestrian Impact Detection System Disabling and Enabling <p>Note:</p> <ul style="list-style-type: none"> • Inspect the absorber / EA foam for any cracks or damage and inspect pedestrian sensor tube for any cuts or puncture holes. • Replace front bumper fascia or sensor system if any damage is found. This can cause faulty readings with the pedestrian impact sensor. • The pedestrian sensor is a press fit into the absorber.

2018 Buick Regal

- “Rope” Impact sensor press fit into the absorber
- Specific “Enable and Disable” procedure. Handle like a live airbag

Replace front bumper fascia or sensor system if any damage is found. This can cause faulty readings with the pedestrian impact sensor.

Active Hood Hinge Actuator Replacement



Active Hood Hinge Actuator Replacement



Callout	Component Name
Preliminary Procedure Disable the system. Pedestrian Impact Detection System Disabling and Enabling	
1	Active Hood Hinge Actuator Bolt[2x] Caution: Fastener Caution Tighten 9N•m (80 lb in)
2	Active Hood Hinge Actuator Clip Procedure Use a flat bladed plastic tool to remove.
3	Active Hood Hinge Actuator Procedure 1. Disconnect the electrical connector. 2. If deployed, replace the following parts: <ul style="list-style-type: none"> ◦ Left and right actuator ◦ Left and right hood hinge ◦ Hood

2018 Buick Regal

- Tightening Specification for the actuator similar to a seatbelt bolt.
- Use plastic bladed tool to remove

Replace Hood, Hinges and both Actuators after a deployment

Open discussion and Questions

