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Emerging Technologies Committee

Presented by:
Jack Rozint, Chair



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**Emerging Technologies
Committee**

Scanning & Diagnostics Task Force

Presented by:
Jack Rozint, Mitchell International

Agenda



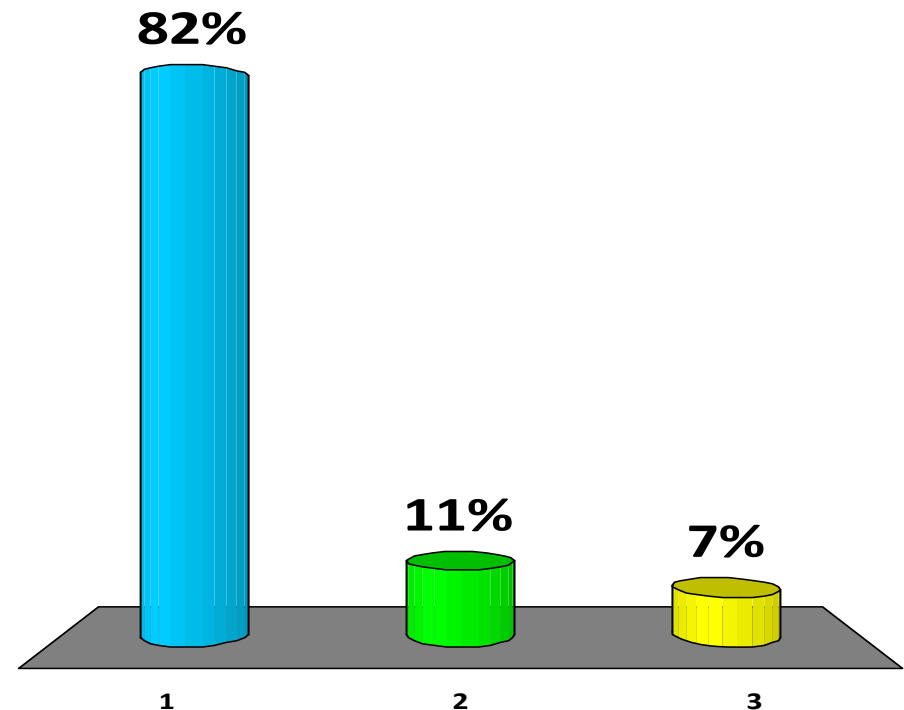
- **Submit Draft Work Products for Acceptance**
 - Scanning & Diagnostics Terms Glossary
 - APD Scan Definitions
 - Scan Tool Overview
 - Support Equipment for Diagnostic Scanning
- **Brief Work Group Updates**
 - Tools & Support Equipment
 - When to Scan/Repair Procedure Integration
 - Definitions
- **What's Next?**

Scanning & Diagnostics Terms Glossary



Accept the Task Force Draft Work Product?

1. Agree
2. Disagree
3. Abstain



Scan Tool Overview



Accept the Task Force Draft Work Product?

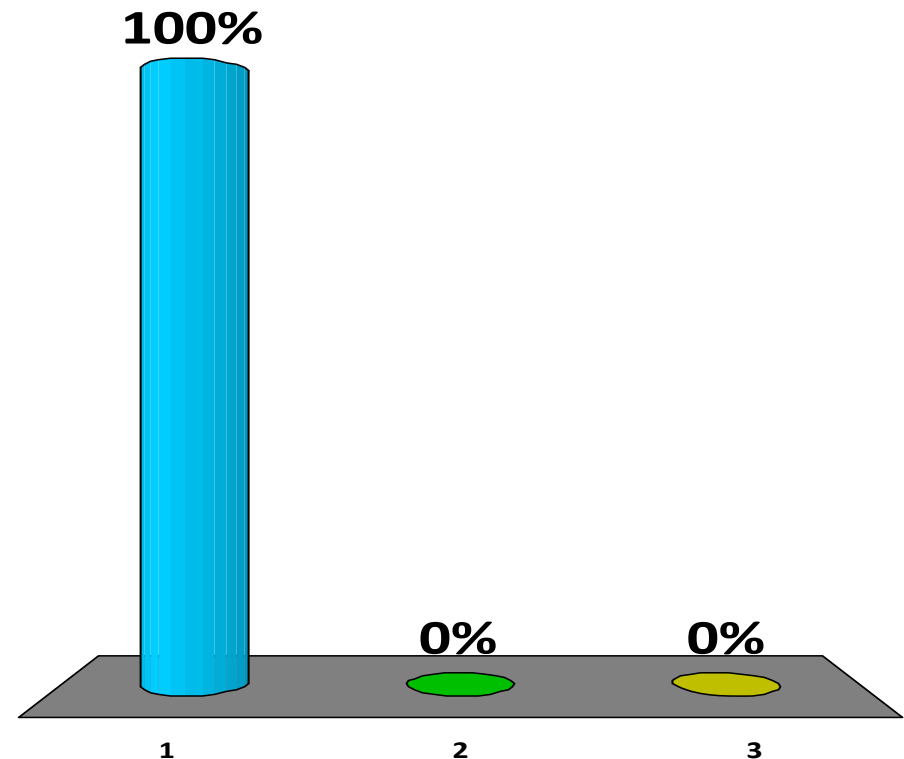
1. Agree
2. Disagree
3. Abstain

APD Scan Definitions



Accept the Task Force Draft Work Product?

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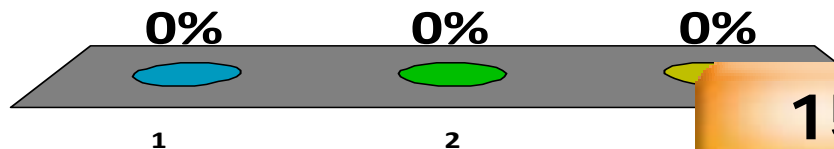
Support Equipment for Diagnostic Scanning



Accept the Task Force Draft Work Product?

1. Agree
2. Disagree
3. Abstain

0 of
200



Brief Work Group Updates



• When to Scan? – Integration of Repair Procedures

○ Jake Rodenroth – asTech™

OEM's prefer all parties to use their specific OEM repair information via their websites:

- Challenge: Not integrated into estimating solutions and very time consuming
- Challenge: Not standardized. Where I find info for OEM X, is going to be different than where I find info for OEM Y
- Challenge: Third Party Software (e.g. Alldata, CCC Repair Methods, Mitchell TechAdvisor, etc.) not always complete or accurate.
- Challenge: Insurers want estimates uploaded within 2 hours of drop-off not allowing time for research
- Challenge: Insurers don't want items on the estimate if included thus the third-party software doesn't display and print the verbiage to alert the shop to what is necessary or required
- Possible Solutions: OEM's recognize Third Party Software and work with them for better accuracy
- Possible Solution: OEM's produce training webinars, online modules, etc. for how to navigate and utilize their specific OEM Repair Information websites
- Possible integration of OEM information sites with existing collision business systems real time



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Brief Work Group Updates



- **Definitions**
 - Sean Guthrie – Car Crafters
- Definitions were designed to improve communication around this new and ever more important portion of collision repair
- Goal is that definitions are clear and precise with out any bias
- Key definition to highlight:
 - **Cyber Fingerprint**
 - ✦ Diagnostic Trouble Codes resulting from or created during the normal course of performing the required repair operations. During the repair process disconnection of sensors, lights, modules, wiring and other related diagnostic/electronic/and computer related parts including the disconnection of the battery may trigger multiple diagnostic trouble codes. These codes create a shop's cyber fingerprint which can provide a virtual roadmap of the repairs performed on the vehicle.



Brief Work Group Updates



- **Tools Work Group**
 - **Chuck Olsen – AirPro Diagnostics**
- Tools group has met 4 times to review tools documents
- Added Scan Tool Types, Definitions and Descriptions for review by CIC (Part 2 of Scan Tool Overview)
- Continued work on Quick Start Guide
- Encourage questions and recommendations from CIC members of what they need in this guide
- Quick Start Guide draft available at www.ciclink.com for review and comments



Next Steps



- **Quick Start Guide**
 - How to get started
 - What are the tools, equipment, training needed
 - Reference to industry resources
- **Calibrations & Diagnostic Procedures**
 - ADAS Recalibrations – & without targets
 - Reset, relearn
 - Reprogramming – J2534 Module Reflash
 - Clearing codes
 - Does a clear post-scan indicate all systems are ‘go’?



Calibrations| Types of Systems

214

- **Cameras**

- Lane Departure
- 360° Camera System
- Driver drowsiness detection
- Blind spot monitoring



- **Radar – Lidar**

- Front collision avoidance
- Park assist
- Adaptive cruise control
- Autonomous emergency braking



I-CAR Reparability Technical Support



[Home](#) / OEM Calibration Requirements Search

OEM Calibration Requirements Search

Advanced Driver Assistance Systems (ADAS) often require post-repair calibrations/aiming. This search tool will allow you to identify which system(s) a particular make/model might be equipped with. You'll also be able to identify which parts and systems will set DTCs, illuminate MILs, require scan tools or other special equipment, and when calibrations are required. *(Note: Access to OEM information is mandatory to perform post-repair calibration. A proper scan tool, special tools, and/or a test drive following OEM established parameters may also be required.)**



OEM Calibration Requirements Search Form

Make:

-- All Makes --

Model:

-- Select a Make --

Year:

-- All Years --

SEARCH ↗



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Small Degree, Big Impact.

Why driver assist systems should be on your radar.

Driver assist systems are becoming increasingly more common in today's cars. Cameras are often mounted to the windscreen to enable systems such as autonomous emergency braking and lane deviation warnings to function correctly. A camera that is misaligned by as little as one degree can have devastating consequences.

15.3m



Estimated No. of vehicles on UK roads with driver assist systems by 2020

A misaligned calibration of just one degree could increase your chance of a collision.

Correctly calibrated systems ensure a safe stopping distance.

Dealership's knowledge*
31% not aware of the need to calibrate
53% gave inaccurate information about calibration



Est. lives saved and casualties avoided by accurately calibrated systems in the next decade*

1,100 lives

122,860 casualties

68%

Drivers ignore their vehicle manufacturer's advice to calibrate their safety system*

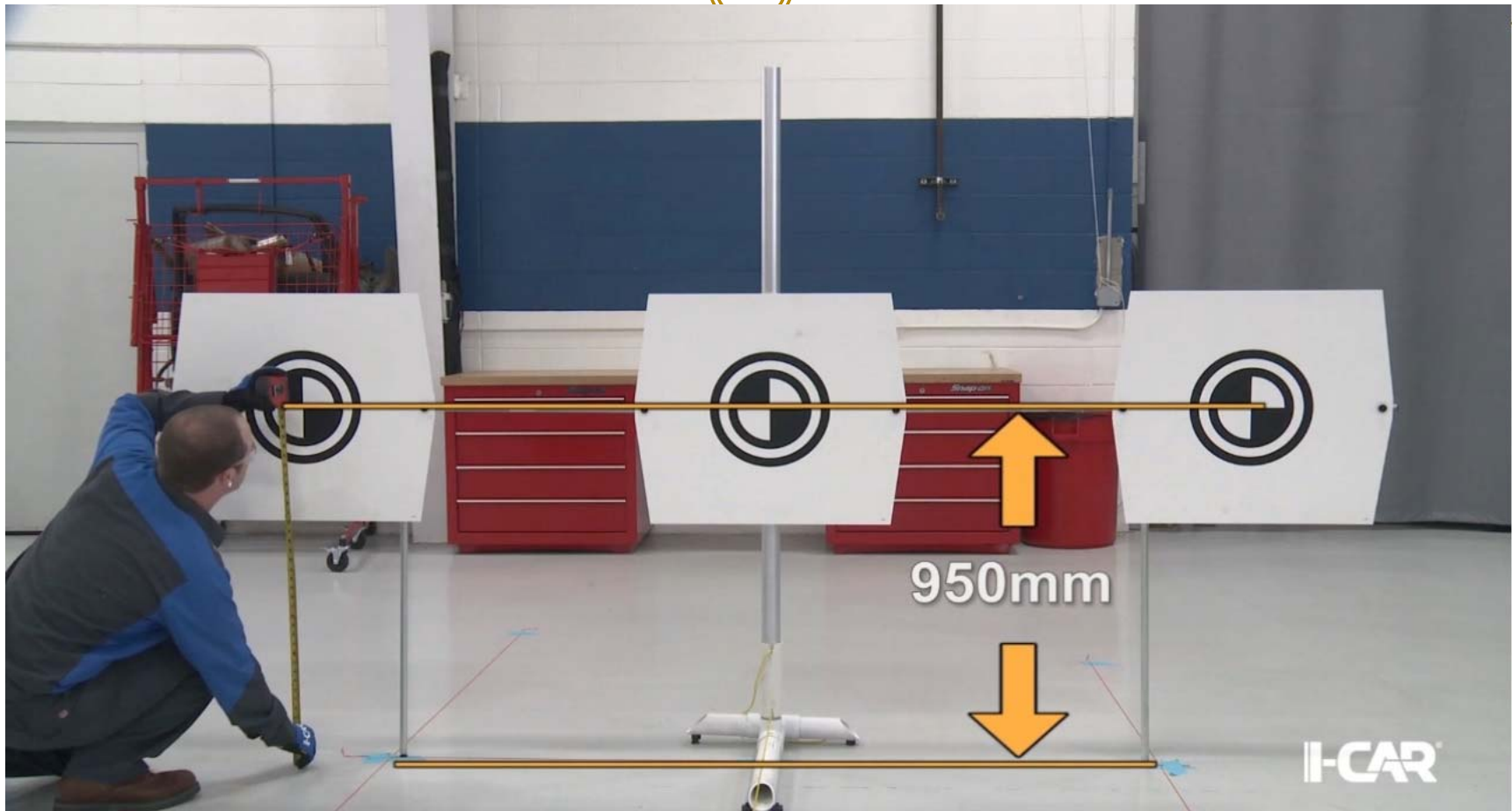
67%

Drivers unaware that the windscreen incorporates this vital technology*



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ADAS Recalibration Using Targets



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I-CAR

Calibrate Before or After Reassembly?



Facility Requirements

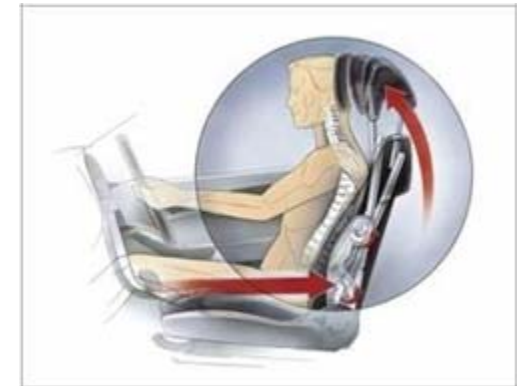
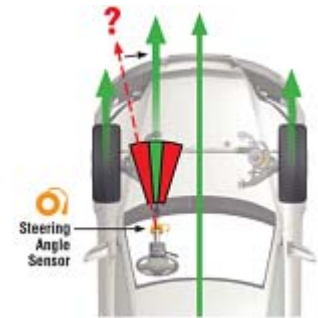


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Other Diagnostic Procedures



- Steering Angle Sensor
- Window Motor Relearn
- Seat Weight Sensors (Occupant Detection)
- LED Lighting Test
- Yaw Relearn (Electronic Stability System)
- Active Head Restraints
- Battery Replacement



Beyond Pre-Scan & Post-Scan....



- Interested? – Please join us
- Contact One of Us or Email to:

emergingtech@ciclink.com



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