

2024 Mercedes-Benz Certified Collision Program Meeting-Las Vegas

Welcome

November 4, 2024

Certified Collision Center Meeting 2024 | MBUSA

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Meeting Code of Conduct

Participants must conform to rules of order and follow Anti-Trust. Guidelines. This includes zero tolerance for verbal abuse or harassment in any form.

Participants are not allowed to discuss any subject relating to prices charged, discounts offered of any nature, hourly rate, employee benefits, or agreements made with third party entities. Participants found to be in violation of the foregoing will be asked to leave.

All participants are herewith notified that the materials presented herein are not to be construed as information or direction to take concerted actions. Information can be utilized by individuals acting within their own judgment, making sound business decisions, without agreements with other participants of this meeting.

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Agenda

- Welcome
- Team Introductions
- Society of Collision Repair Specialists
- Program Updates
- Collision Trainer Presentation
- Paint Partner Presentations
 - Sherwin Williams
 - PPG
 - BASF
- Xentry Parts Upgrades
- Mike Anderson
- Final Thoughts/Q&A

Meet The Team

Atlanta-HQ



Benito Cid



Paul Dent



Sebastian Wolf

Robbinsville



Robert Weingart



Grapevine

Scott Cripps



Kevin King

Jacksonville



Shaira Santiago

Robert Laurino **Clint Allen**

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Society of Collision Repair Specialists

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Aaron Schulenburg Executive Director aaron@scrs.com (302) 423-3537

www.scrs.com



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MAP YOUR SHOW

RECO

CERT YOUR GET YOUR FULL SERIES PASS NOV

GET FULL ACCESS TO ALL SCRS EDUCATIONAL OFFERINGS DURING THE SEMA SHOW SECURE YOUR SPOT MATTHIS YEAR'S

Danny Greainberg







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aaron@scrs.com info@scrs.com

www.scrs.com



Program Updates

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Certified Collision Network

398 Certified Collision Centres

- 182 Base \bullet
- 216 Elite
- 48 MB Electic \mathbf{O}
- 68 Vans
- 299 Participating Dealer ullet

North shington Greater Missoula Quebec Dakota Montana Sudbury Minnesota Portland Ottawa South Wiscons Dakota Toronto Idaho Oregon Madison Michigan Wyoming lowa Chevenne Eureka Salt Lake City United Pennsylvan Reno Illinoi States Nevada Utah Color 10 Kansas San F .00 Missour ifornia Las Vegas Santa Fe Amarillo Okl onia 0 aw ngeles Arizona Mexico Lubbock Mississippi Da' hada Ciudad Juárez Mobile Texas Jacksonville Louisiana Chihuahua City San Antonio Ca Coral Monterrey Culiacán Status Havana Elite/EQ Mexico Tampico Elite Honoulu Mérida Guadalajara Hovaii Base Puebla City Cayman Islands Hilo Tuxtla Applicant Gutiérrez Belize C Mapbox C OSM

Authorized to perform all collision repair to all Mercedes-Benz vehicles with the exception of aluminum structural

repairs.



Authorized to perform all collision repair to all Mercedes-Benz vehicles includingaluminum structural repairs. Must have at least 1 Aluminum certified technician

<u>MBE</u>

Authorized to perform collision repair work on all Mercedes-EQ vehicles. Facility must be Elite certified and have minimum of 1 Battery Specialist to become an EQ facility. Certified Collision Center Meeting 2024 | MBUSA

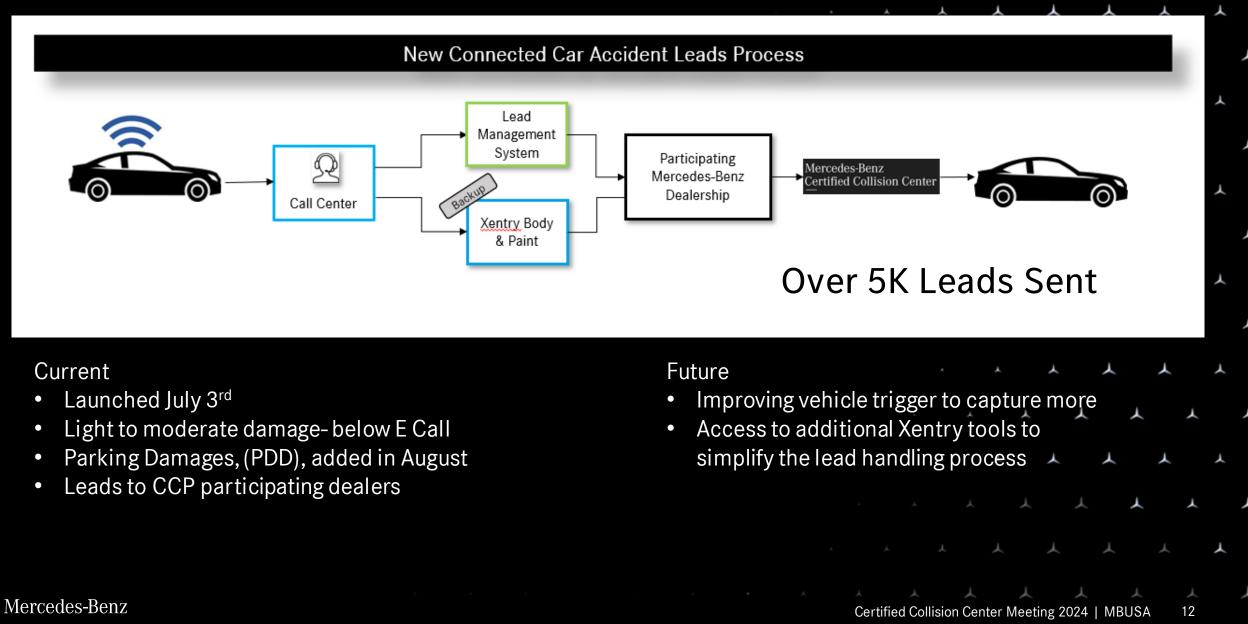
Authorized to perform structural and cosmetic repair on the Sprinter and Metris vehicles. Must be in the conjunction with a Base or Eliteprogram.

Vans

Mercedes-Benz

BASE

Connected Car Leads

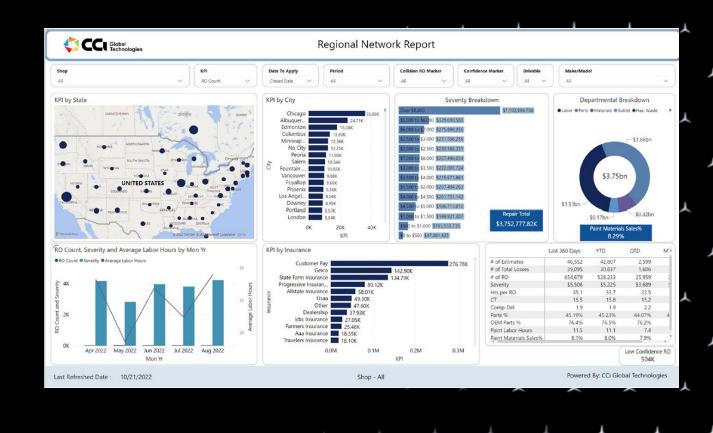


Repair Order Data

Onboarding CCI for RO data to show the value of our program.

Data will provide Insights into our network

- Throughput
- Cycle times
- CSI/NPS
- Parts usage
- Backorder details

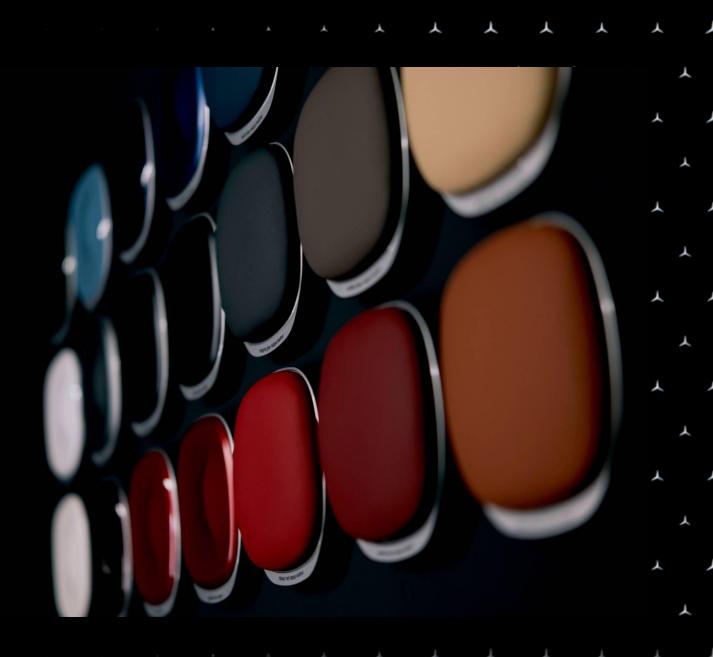


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Waterborne Paint

The shift to Waterborne will begin in 2025.



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Vans Only Program

Launch of the stand-alone Vans Program coming in 2025.

Program requirements will match Base Certification minus the aluminum body repair tools and work area.

Program materials will be available Q1



I-CAR Training Alliance

Mercedes-Benz joined the I-Car Training Alliance. Our training will now get you I-CAR course credits helping to cut costs and time away from production.



Website: https://www.i-car.com/industry-training-alliance-partner?partner=Mercedes

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Position Statements

Updates and All New Position Statements being developed.

- Stronger wording
- More comprehensive
- More topics
- Updates to match current vehicle requirements

Any Suggestions please email us at: <u>mbcollision@mbusa.com</u> -with subject line "Position Statement Request"



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Program Fee Change

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BASE	Initial Certification:	No Cost	\$7,000		
	Recertification:	No Cost	\$6,000		
ELITE	Initial Certification:	\$14,000	\$18,000		
	Recertification:	\$12,000	\$15,000		
Vans	Initial Certification:	No Cost	Add on \$3,000 Vans Only \$7,000 🔺 🔺 🗸		
	Recertification:	No Cost	Add on \$3,000 Vans Only \$6,000		
MB Electric	Initial Certification:	Included in Elite	Included in Elite		
	Recertification:	Certification	Certification		

DEALER-OV

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MB Academy- Collision Technical Training

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Technical Collision Training

Instructor Lead Training

Hands on in person on site training at one of the MB Learning and Performance Centers.

Virtual Instructor Lead Training Live training delivered virtually through an online platform by MB Collision Facilitators

eLearnings

Training provided online via the Learning Link

Instructor Lead Training





Collision Training Centers

- DFW Learning and Performance Center Grapevine, TX
- New Jersey LPC Robbinsville, NJ

Technical Training Centers

- Long Beach, CA
- Carol Stream, IL
- Jacksonville, FL

2 In person classes per year (can be multiple students)

Joining Techniques X0028F-US.TT2



- Perform destructive spot weld testing
- Demonstrate the proper application of MB adhesive
- Use approved Rivet systems with Positive joining techniques
- Perform Mixed method techniques
- Utilize thread repair solutions
- Test a structural AL component for cracks with a dye test kit

MRA Platform X0042F-US.TT2

Mercedes Rear Wheel Architecture



Objectives

- Identify MRA vehicles by their sales designations and chassis codes.
- Name and define the four phases of the Integral
 Safety Concept.
- Name two new features of the PRE-SAFE[®] system.
- Increase awareness of Driver Assistance Package
- Perform required collision related calibrations and

radar attenuation tests.

• Understand the limitations of plastic bumper repair and aluminum component repairs.

MHA Platform X0030F-US.TT2

Mercedes High Body Architecture





- Identify MHA vehicles by their sales designations and chassis codes.
- Perform disassembly and reassembly of interior and exterior components.
- Name two new features of the GLE and GLS.
- Name two new features of the new G-Class.
- Perform disassembly and reassembly of interior and exterior components of the new G-Class.
- Perform a radar calibration on the new G-Class using a new special tool.

MFA Platform X0031F-US.TT2 Mercedes Front Wheel Architecture



- Identify MFA vehicles by their sales designations and chassis codes.
- Perform disassembly and reassembly of interior and exterior components.
- Name two new features of MBUX.
- Perform wire harness repairs using approved methods.
- Exchange wiper components properly and perform the manufacturer-specific
- commissioning.

Structural Damage X0017F-US.TT4



- Identify characteristics and repair precautions for steel, composite, and aluminum components.
- Identify and explain crash energy absorbing body and frame features
- Perform a systematic structural damage diagnosis
 - with an electronic measuring system
- Interpret panel replacement specifications and methods using WIS
- Understand the application of corrosion protection and seam sealing materials

Windshield Repair & Replacement X0003F-US.TT1



- Name the approved materials required for fixed glass repair and replacement
- Properly remove and install a glass windshield using approved adhesive technology
- Demonstrate the various repair and removal techniques and state the advantages and
 - disadvantages of each
- Identify and use the appropriate work instructions for windshield repair and replacement
- Describe the necessary calibration operations associated with glass replacement

Aluminum Welding Elite Certification* TECH 532



Objectives

- Training and Certification pertaining to ISO 9606-2 Aluminum Welding
- 10 day initial session for training and testing
- Certification for welding of Structural Aluminum Components
- Thin Plate Aluminum Certification
- 6 month cycle for re-certification required

1 welder with up to date certification must be on staff

* Grapevine, TX only

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Virtual Instructor Lead Classes



- To address specialized topics not typically covered during in person classes
- Deliver cutting edge information in a timely fashion
- Provide a regular schedule of interaction between students and the Learning Academy Collision Repair Instructors
- Allow for student input as to needed training topics

⁴ shop employees complete 2 classes each

Virtual Class Roster



1234yf RefrigerantCollision CalibrationsAdhesives and ApplicatorsCosmetic Aluminum RepairAdvanced WISHandling HV in the shopBrief History of AMGIntro to NTG7Chassis CodesResearch into Wiring RepairCorrosion ProtectionVIN/Part # Decoding

Suggestions for future Virtual topics are always welcomed.

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e-Learnings



Requirements

Currently there are over 20 e-Learnings available to satisfy the Base Certification requirement.

4 e-Learnings per year (can be multiple students from the shop)

Courses in Development





Courses submitted for approval:

CV Sprinter 907 Body Repair Training Course

Collision Technician EQ Diagnostic Power Down Certification (shop XENTRY required)

Updating of existing courses:

MHA Platform X0030F-US.TT2 > G Wagon section

Possibly available from Germany:

Soft Top update

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Sherwin-Williams

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ABOUT SHERWIN-WILLIAMS

Direct Model:

 180+ North American auto branch footprint

Innovative Products:

 Versatile, high-performance coatings solutions that drive customer productivity and profitability

Our People:

 Direct Sherwin-Williams trained employees at every customer touchpoint

Customer Productivity Solutions:

 Driving throughput to enable greater customer success and profitability



SHERWIN-WILLIAMS.

Ultra 9K delivers on color accuracy (and speed) for first-time repairs – especially today's complex finishes – with an innovative and compact bank including 60 toners rich in pigments, intensity and effect.

This streamlined bank is combined with our premium portfolio of Ultra System[™] undercoats and clears to meet critical production-specific needs.

- Innovative waterborne technology unlike any other
- Superior color matching of all relevant OEM colors and styles
- Innovative packaging design to maintain quality inside the can
- Comprehensive chromatic/metallic/pearl toner
 offering
- OEM certified

SHERWIN-WILLIAMS.



ULTRA 9K



Effect Additive

CONT. NET./NET CONT. 33.8 U.S. FL OZ (1.05 U.S. QT) / 1 L Digital, Connected, Ecosystem

SHERWIN-WILLIAMS.





- BMS \bullet
- Spectrometer
- **Color Software** •
- Automated Dispensing
- **Inventory Management** •
- Ordering
- Invoicing •
- Reporting
- Sherwin-Williams **Branch Store**

All Connected

- Labor Optimization: Que up to 6 batches, walk away and turn labor while it mixes and stages the paint. \triangleright
- Material Optimization: Mix accuracy beyond human capabilities improves first time quality, reduces waste.
- Profit Optimization: Accurately account for material usage and invoice for it. Certified Collision Center Meeting 2024 | MBUSA \triangleright





ONE STOP SUPPLIER WITH ASSOCIATED PRODUCTS

- Single Source Supplier
- Convenience to manage approved product list
- Comprehensive inventory management and invoicing.



Tapes

Abrasives/ Equipment



Access to

private brands and

most major

name brands



Quotes on capital equipment & tools

Our Overall Approach



Execute seamless conversions



Drive product innovation



Deliver profit focused process for repair cycles, and CSI



Utilize account management and network tools to control outcomes



Create peer connectivity and accountability through performance groups



Provide solutions to direct control of customer claims



Improve profits and reduce friction in the claims cycle

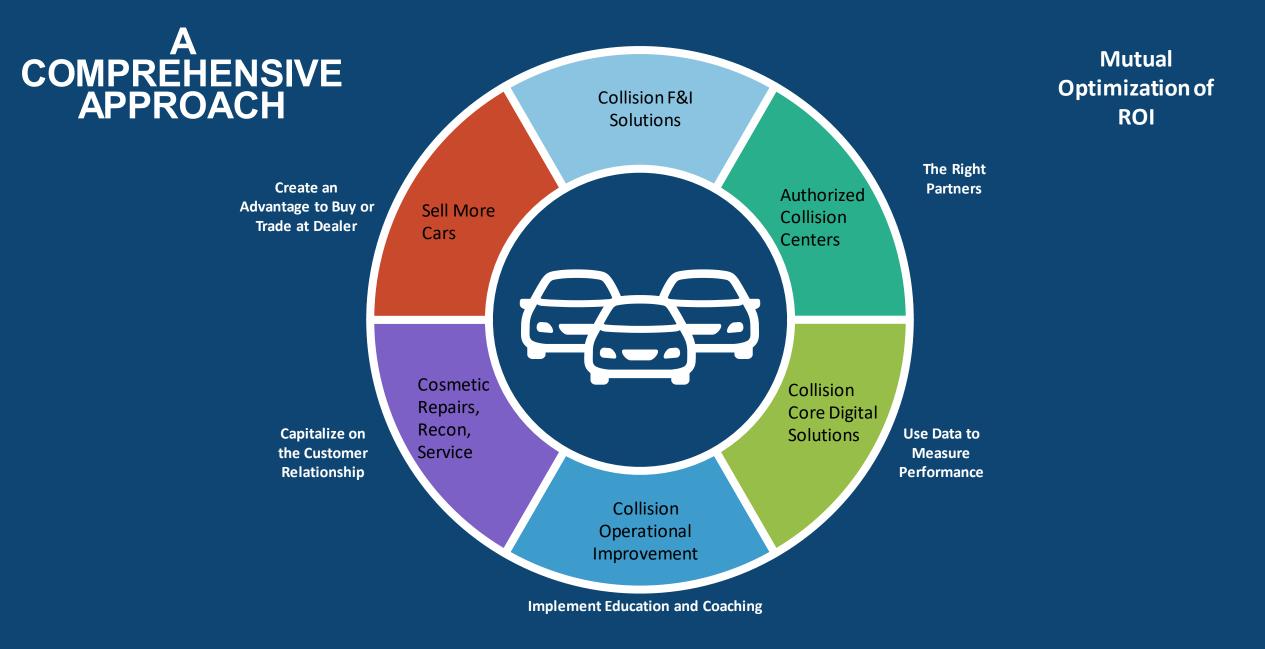


Leverage collision to grow sales in F&I, parts, service new cars and used cars



A Unique, Innovative Solution Provider

SHERWIN-WILLIAMS.



Create a Gravitational Pull To the Dealer and Authorized Collision Center

SHERWIN-WILLIAMS.

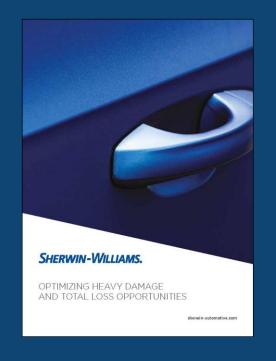
Revenue Enhancement Programs

EXPRESS SCRATCH REPAIR

Quick and Affordable Cosmetic Repairs from Service Lane Vehicles

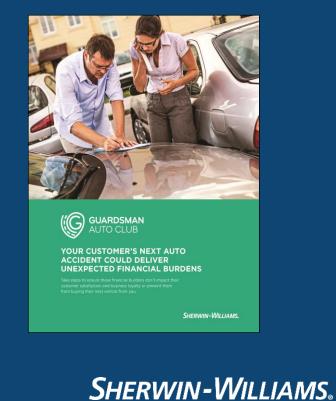


TOTAL LOSS SALES OPTIMIZATION Turn Total Loss Units into Sales Each Year



GUARDSMAN AUTO CLUB

Policy that supports Post-Accident Protection for Consumers



Collision Core

COLLISION CORE INVENTORY

Optimize Inventory for Profitability

- Accurate Stock Audits: Ensure precise inventory levels
- **Controlled Ordering:** Streamline product purchases
- Budget Monitoring: Keep monthly costs in check
- Efficient Invoicing: Capture all billable items accurately







Collision Core

COLLISION CORE DIAGNOSTICS

Business Control Available Anytime

- Performance Review: Analyze key metrics to guide decisions
- Spot Opportunities: Identify growth areas quickly
- **Detailed Reports:** Uncover improvement opportunities
- Aggregated Insights: Manage effectively with MSO-level data





Performance Optimization

OPERATIONAL OPTIMIZATION TRAINING

Boost Efficiency Across Repair Processes

- Damage Analysis
- Parts Correctness
- In-Process Quality Assurance
- Parts and Estimation Accuracy
- Accident Express Repair
- Express Cosmetic Repair



PERFORMANCE PEER GROUPS Grow Through Collaboration and Expert Guidance

- Peer Groups
- Detailed Financial Composites
- Coaching Sessions
- Continuous Education
- Comprehensive Offering
 - Management by Square One Systems
 - Moderation by QLC Inc.
 - Education by Collison Advice
 - Auditing by DEKRA





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Official Team Partner

SHERWIN-WILLIAMS





PRIZE DRAWING







BUILD A MERCEDES-AMG F1 W14 E PERFORMANCE MODEL

Todays Prizes



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Miami Club May 2-4, 2025

(1) Mercedes-Benz Certified CollisionCenter will win a VIP Experience for 2 to the 2025 Miami Grand Prix.

Hosted by Mercedes-Petronas F1 Racing and Sherwin-Williams

Contest rules to be announced soon

Official Team Partner





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ted.c.williams@sherwin.com

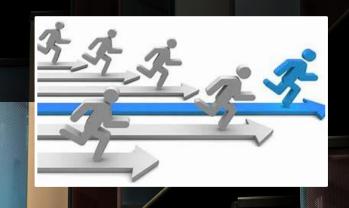
jason.l.crager@sherwin.com

SHERWIN-WILLIAMS.



Certified Collision Center Meeting 2024 | MBUSA PG We protect and beautify the world

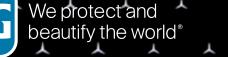
PPG Industries, Inc. Waterborne? Do We Still Have Slides?



Presenters



PPG We protect beautify the

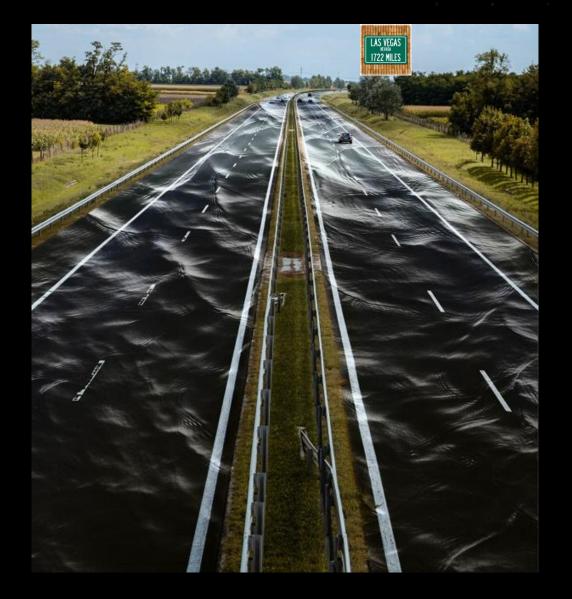


- 32 years experience in Automotive Collision Repair
- 17 years experience in administering and supporting OEM-certified facilities
- Dedicated support to OEMs in support of paint-related opportunities
- Dedicated support to OEMs in support of collision repair opportunities
- Liaison for Industry Associations
- Mission: To assist the top shops across the nation in their pursuit of OEM
 Certification

- 15 years experience in Automotive Collision Repair
- 10 years in dealership and auction operations, enhancing operational efficiency and customer satisfaction
- Currently serving as a Business Development Manager, specializing in helping collision centers achieve and maintain profitability
- Advisory Board member for Automotive Educational Programs and engaged
 participate in Regional I-CAR committees

Mercedes-Benz





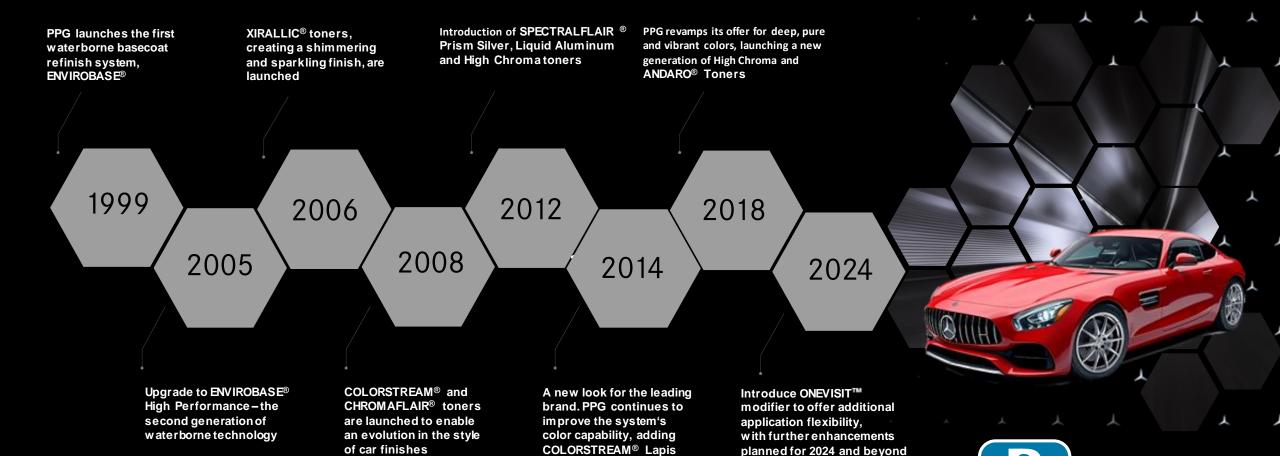
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ENVIROBASE® High Performance

We protect and beautify the world®

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ENVIROBASE[®] High Performance **The centerpiece of our portfolio**



Sunlight toner to the range

Mercedes-Benz

We protect and

beautify the world®

ENVIROBASE[®] High Performance



Mercedes-Benz

ENVIROBASE® High Performance with OneVisit[™] Modifier _____ Competitive Advantage: Digital Automated Tools

- OneVisitis fully compatible with the PPG MOONWALK[®] automated mixing system
- The paint system is supported by the PPG LINQ[™] advanced color matching and automation tools
 - With *PPG LINQ*, painters can modernize their repair processes using the cloud-based platform and its interconnected digital hardware, software and innovative services, gaining clear benefits.



The Other 95%





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Come talk to us about certifications, color tools or FinalQC!





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Amanda



Jennifer

Mercedes-Benz



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Mercedes Benz Certified Collision Center Summit

Daniel Rosenberg Strategic Account Manager OEM November 4, 2024

Up Front - Take Aways

Implications to shops from OEM/Insurance sustainability targets

Monetary benefit of easy sustainable actions for shop owners

Core element of our sustainable business strategy

Ambition 2039.

The ambition is to make our entire fleet of new vehicles **net carbon-neutral**^[1] along the entire value chain and over the **vehicles' entire life cycle** by 2039– from development to **the supplier network, in-house production** ...

Mercedes-Benz Plant Tuscaloosa. 114 acres of manufacturing

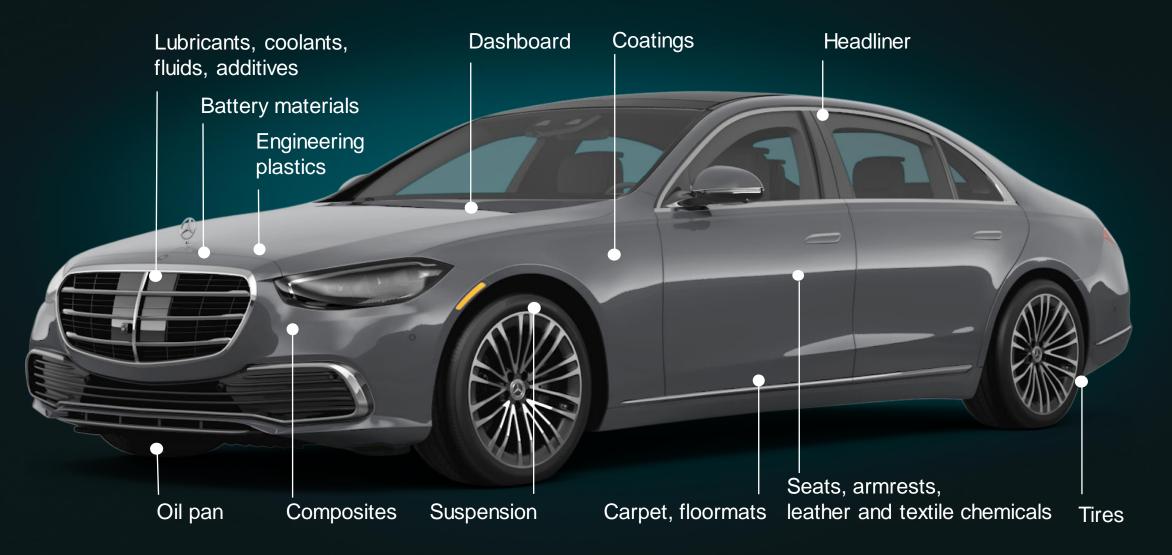
~300,000 Annual Production

6,300 Employees +57,000 suppliers

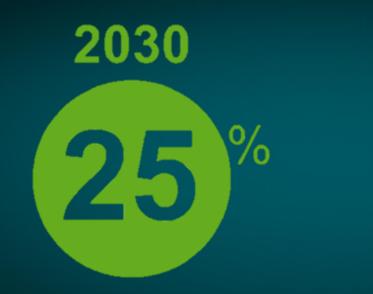
GLE, GLS, EQS, EQE

2022-2026 Sustainability Projects Demand-orientated local lighting control High efficiency heat recovery Al regulated conditioning of booth air

BASF – Much more than a paint company



BASF Sustainability targets



*CO*₂ emissions reduction compared with 2018¹ 2050 Net Zero

*CO*² emissions ¹

1 The goal includes Scope 1 and Scope 2 emissions. Other greenhouse gases are converted into CO2 equivalents according to the Greenhouse Gas Protocol

Sustainability still in early stages in the Collision Industry

Lack of knowledge around sustainability

Monetary benefit not clear for shop owners

"Mentality: Sustainability does not affect our business"





Sustainability – 100 Line

LOWEST VOC

INTEGRATED PROCESSES

STRATEGICALL ALIGNED

PROCESS OPTIMIZATION

Business + Workshop Processe

BIOMASS BALANCE



Exceeds all global VOC requirements for Exceptional Sustainablity



UV Cure & direct to metal Improved Profitability



Strategic Partnerships Collision Industry, Insurers, OEMs Speed, Improved workflow reduce emissions & energy costs



Drives use of renewable raw materials

The only paint line that already meets 2030 SCAQMD VOC requirements

Booth cycle time reductions – 100 Line

Performance Collision – St. Catherines

Booth cycle time reduced from 55 to 35 minutes for 2 stage repair 120 to 45 minutes for a full-sided 3 stage

Freeman Collision – Santa Rosa

50% reduction in booth cycle time 23% increase in monthly revenue

On Line Collision – Langley

40% reduction in booth cycle time
30% increase in total throughput
70% reduction in polishing time needed

Energy Consumption

Avg shop in the US spends \$2-3,000 / Mo on utilities

Does this sound like your shop?

Process (Air Comp, Welders, Booth) 40% HVAC (Shop)

9% Misc. 13%

+70%

Lighting

<u>https://www.energystar.gov/</u> <u>http://www.rdcnet.com/</u>

Sustainability – WHY and ROI

Lighting 30-90%

LEDs – NO BRAINER - Less energy and last longer Conduct a nighttime audit – What is ON that should not be?

Sustainability – WHY and ROI

Lighting 30-90%

LEDs – NO BRAINER - Less energy and last longer Conduct a nighttime audit – What is ON that should not be?

HVAC* 20-50% Generally 8-15 kWh/Sqft of shop space per year* <u>Utility companies do free or inexpensive energy audits</u> Government subsidies for replacements

Sustainability – WHY and ROI

Lighting 30-90%	LEDs – NO BRAINER - Less energy and last longer Conduct a nighttime audit – What is ON that should not be?
HVAC* 20-50%	Generally 8-15 kWh/Sqft of shop space per year* <u>Utility companies do free or inexpensive energy audits</u> Government subsidies for replacements
Shop Air 20-30%	Generally 3-4 CFM per employee -2 PSI equals 1% yearly operating cost reduction (~3-500 / yr) <u>Ask your mechanical contractor for a leak audit</u> 20-30% of compressed air leaks
*Variability across region or se	

Sustainability – Best Practices

Utilities and Paint – Major influencers over fixed and variable expenses Embrace Water Based Paints Easy sustainability actions for major OpEx reduction Invest in Energy-Efficient Equipment

Implement Comprehensive Recycling Programs

Prioritize Sustainable Materials and Practices

Educate and Engage Employees and Customers

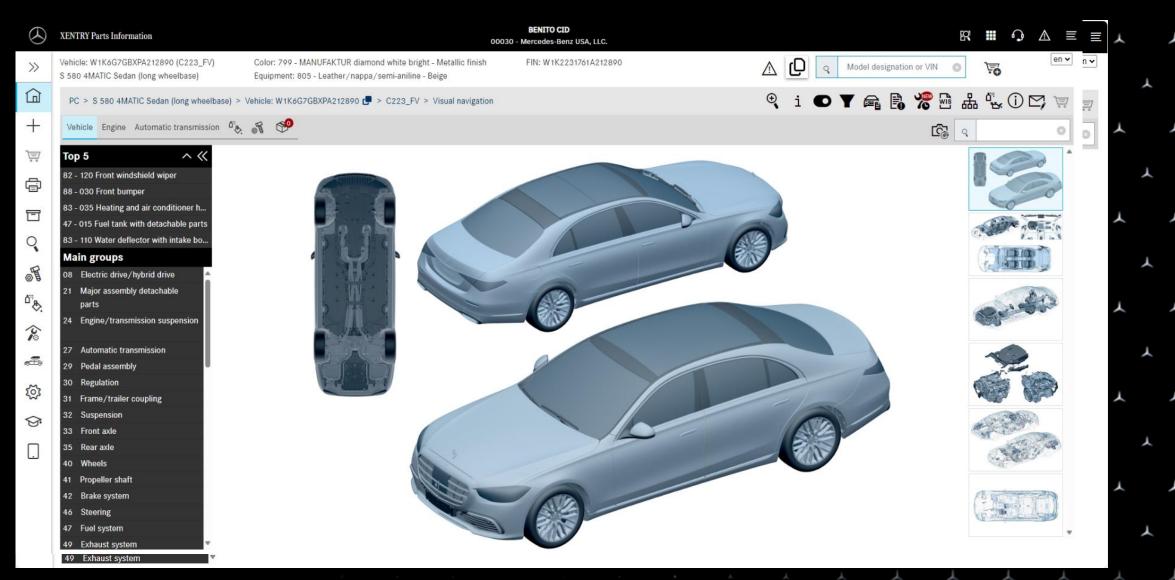
Thank You

Xentry Parts Information

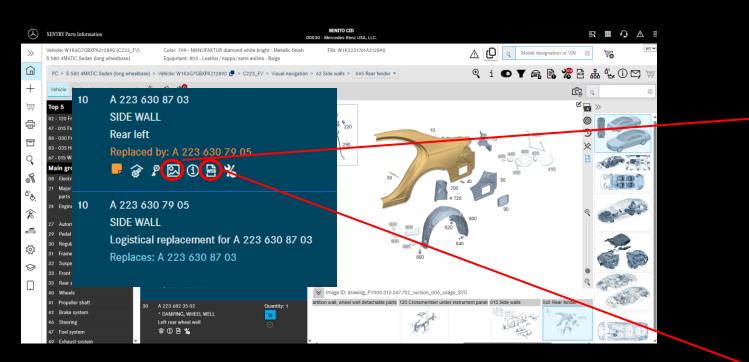
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Part Search-Interactive Image



WIS and Xentry Parts Enhancements



Additional features that may be beneficial to you:

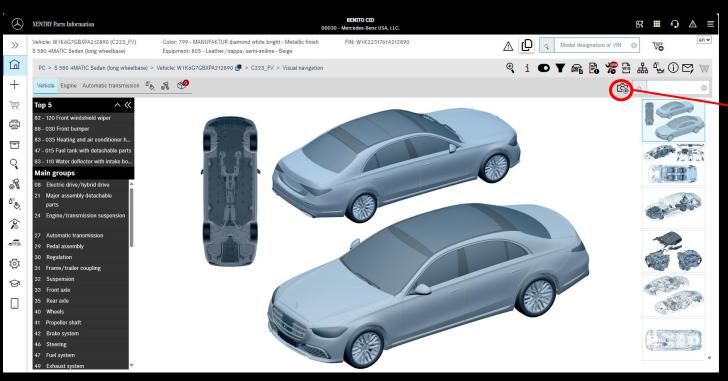
- 1. Images now available for many parts
- 2. When you search parts by VIN you can click on the "WIS" icon to be taken directly to the procedures available for that part-time saver in the blueprinting process!



223 630 87 03 SIDE WALL											
he following WIS (AR) information was found for the category searched for:											
Document number Title											
ar63.10-p-6050s	Partially replace inner side wall with outer rear wheel well										
ar63.50-p-1401s	Replace rear fender complete										
ar63.50-p-1402s	Replace end plate on rear fender										
ar88.10-p-1103sg	Remove/install vent flap in rear fender										
ar88.60-p-2001s	Remove/install tank filler recess										
		Close									

Mercedes-Benz

Part Search- Photo



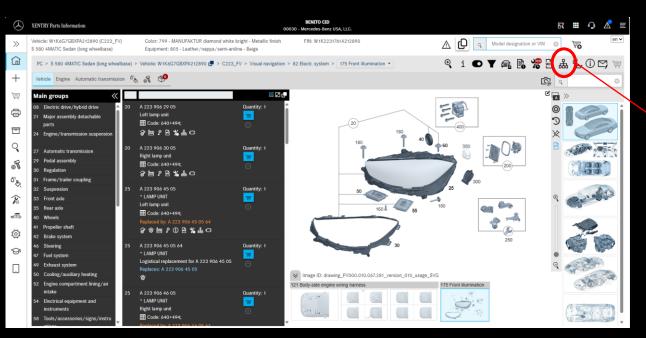
 Ysual Part Recognition
 X

Model designation	Part	Group	
	e running lamps and turn signal lights		
223176	20 LAMP UNIT	82 - Electr. system	
F	Right lamp unit	175 - Front illumination	
223176	25 LAMP UNIT	82 - Electr. system	
F	Right lamp unit	175 - Front illumination	
223176	25 LAMP UNIT	82 - Electr. system	
F	Left lamp unit	175 - Front illumination	
223176	20 LAMP UNIT	82 - Electr. system	
F	Left lamp unit	175 - Front illumination	
223176	30 SEAL, LAMP HOUSING	82 - Electr. system	
F	Right lamp unit	175 - Front illumination	
223176	30 SEAL, LAMP HOUSING	82 - Electr. system	
F	Left lamp unit	175 - Front illumination	

Searching a part by picture is possible.

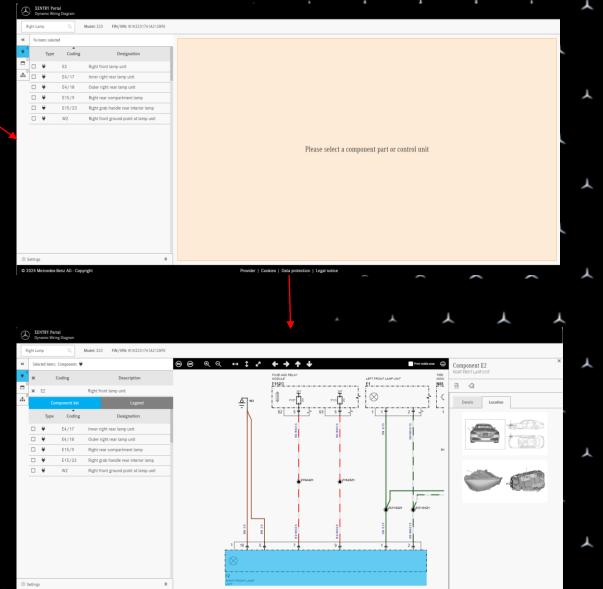
- 1. Open Xentry Parts
- 2. Click on the "camera" icon
- 3. Take picture or chose one from your library
- 4. Click on "Search"

Dynamic Wiring Diagram



Wiring repairs are possible and encouraged. Proper repair can help shorten cycle time.

- From the part you can click on the "Wiring Diagram" icon and choose the part you are looking for information on.
- You will then see the details like; connector part number, wire color, diameter, etc. This along with the procedures provides what you need to carry out a successful repair Mercedes-Benz



Mike Anderson



PROTECT THE HOUSE MIKE ANDERSON, COLLISION ADVICE

Mercedes-Benz

Before We Get Started...

Why do I act this way? Because I can't control it.

I have **Tourette Syndrome or a Tic Disorder** – a medical condition. It causes me to make loud sounds, have twitches or say things I don't mean. Please understand that this is a medical condition and I cannot control my tics. Treatment for Tourette and tics is limited and there is no cure. I am grateful for your understanding and empathy.

My condition is covered by the American Disabilities Act. Visit Tourette.org to learn more.

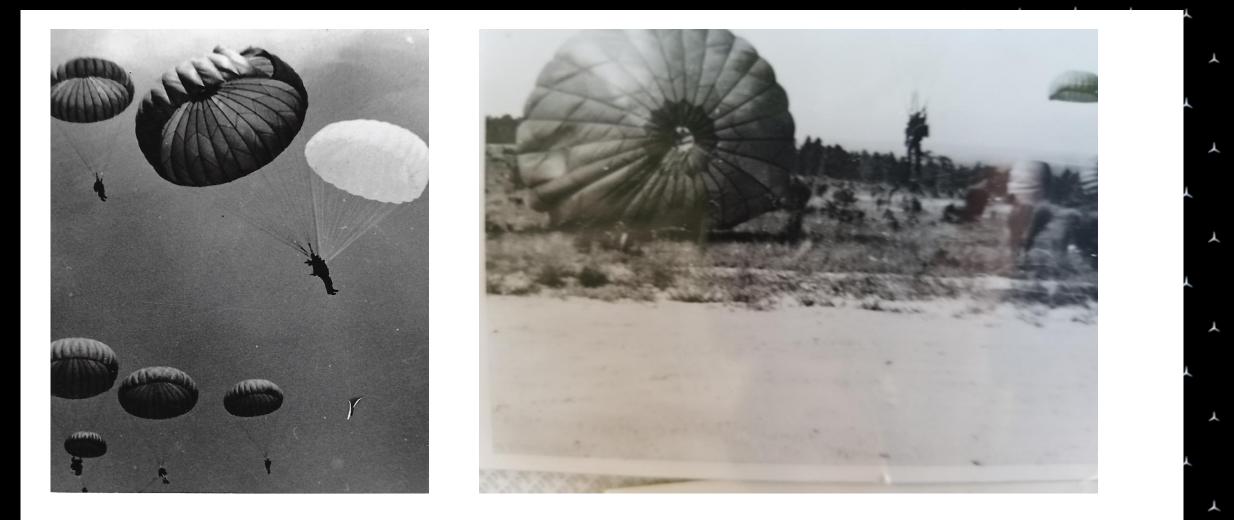


Mercedes-Benz

Why Quality is Dear to My Heart



Why Quality is Dear to My Heart



Why Quality is Dear to My Heart



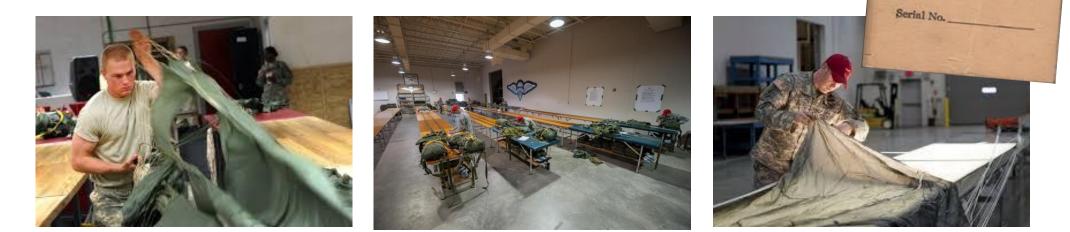
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Parachute Riggers

 A parachute rigger is a person who is trained or licensed to pack, maintain or repair parachutes. A rigger is required to understand fabrics, hardware, webbing, regulations, sewing, packing, and other aspects related to the building, packing, repair, and maintenance of parachutes.



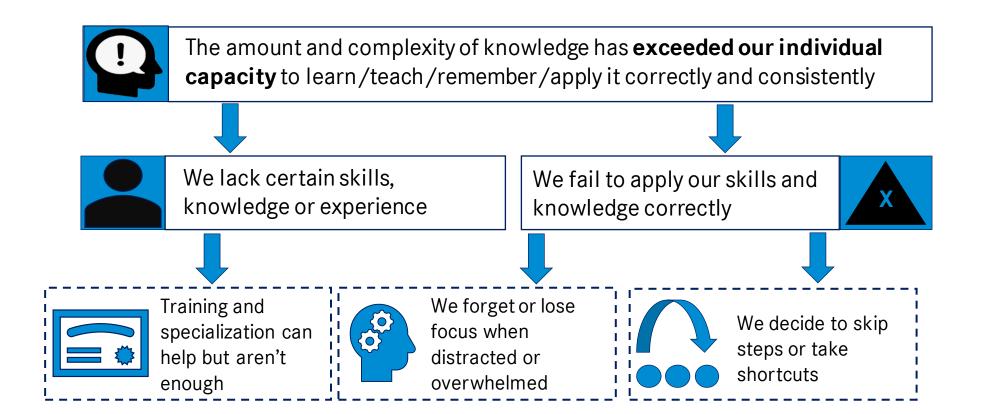
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PARACHUTE

LOG

RECORD

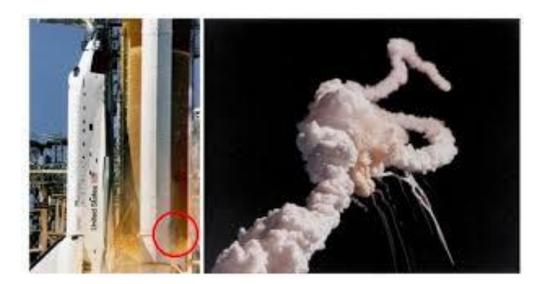
Human Fallibility and Avoidable Mistakes



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Human Fallibility and Avoidable Mistakes

The Challenger space shuttle explosion was primarily caused by the failure of an O-ring in one of its solid rocket boosters, which was exacerbated by a lack of communication between engineers who raised concerns about the O-ring's performance in cold temperatures and NASA management who ultimately decided to launch despite these warnings; this poor communication played a significant role in the disaster.



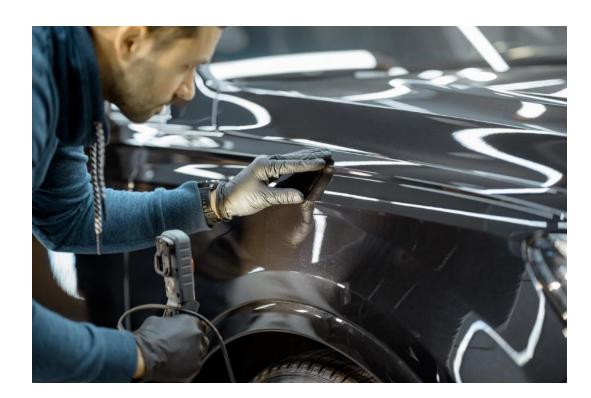


Who is Responsible for Ensuring Quality

EVERYONE!

What areas should we focus on to ensure quality standards are being met?

- 1. Quality of taking care of our customers
 - Includes cleanliness of the office, production area, and the overall facility
- 2. Quality of the estimate
- 3. Quality Documentation
- 4. Quality Repair



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QUALITY CUSTOMER EXPERIENCE

How do we provide quality care for our customers?

- The customer is ALWAYS first and top of mind
- Ensure they are comfortable with the repair plan that we have outlined as well as timelines (expected delivery date)
- Provide a quality estimate & review with them
- Remind them of our commitment to complete a quality repair on their vehicle
- LISTEN & COMMUNICATE
- All paperwork and forms are completed & the customer receives a copy
- Keep the customer updated throughout the repair process
- At vehicle delivery: Confirm they understand the repairs completed and feel safe



Radically Easy To Do Business With Us

Most common time for crashes:

- Weekdays between 4 pm and 8 pm
- At least 43% of accidents happen outside of M-F 8-5 business hours

Shops MUST have the ability for a vehicle owner to submit photos for an estimate and schedule their own appointment after hours! DIGITALLY!

	derweekdays Weekdays Weekdays Weekdays		Percent of All Crashes by Day and Time of Day
	AC Weekdays	4:00-7:59 pm	22.2%
-2	Weekdays	Noon-3:59 pm	19.9%
9.0	Weekdays	8:00-11:59 am	14.8%
	Weekdays	4:00-7:59 am	9.7%
	Weekdays	8:00-11:59 pm	8.1%
	Sat-Sun	12:00-3:59 pm	6.0%
	Sat-Sun	4:00-7:59 pm	5.3%
	Sat-Sun	8:00-11:59 am	3.7%
	Sat-Sun	8:00-11:59 pm	3.5%
	Weekdays	Midnight-3:59 am	2.6%
	Sat-Sun	Midnight-3:59 am	2.4%
	Sat-Sun	4:00-7:59 am	1.7%

We want to make it RADICALLY EASY for the consumers to do business with us!

Mercedes-Benz

After Hours Contact

 McKinsey
 Growth, Marketing & Sales

 & Company
 How We Help Clients
 Our Insights
 Our People
 Contact Us
 Solutions ~

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Control. Customers want to feel like they are in control of their journey as well as other immediate aspects of their life af fected by the customer journey. The more empowered, engaged, and updated they are in the course of the journey, the less likely they are to assign blame to the company when things go wrong. A <u>home-repair</u> company knew from its consumer-satisfaction surveys that customers cared the most about the time it took for a repair worker to visit the home and fix the problems. However, when the company ran a pilot test, it was surprised to find that customer-satisfaction scores went up when customers were offered options for scheduling, even if each option offered meant the customer would wait longer than the company's average wait time.

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Radically Easy To Do Business With Us Best Auto Body Shops near 22306 (Alexandria, VA) Book Appointment Mercedes-Benz Elite ¥ Top Rated >35 mi (7) ¥ Severn Auto Body - Chinquapin Cr#74 $\star \star \star \star \star \star 4.8$ Shippen 1,325 reviews 220 Chinquapin Round Road, Annapolis 'It looks amazing honestly brand new!! The detail was amazing and you all were so helpful and kind throughout the process!! Thank you so much!! 😅 Hagerstov Schedule an in-person **Book Appointmen** • Online Estimate Bultimore **Online Estimate** Take photos for a repair of Rosslyn Auto Body Co. Manassas **** 4.7 2 772 reviews 6015 Farrington Ave., Alexandria "Excellent service! I was very happy with the status updates and follow up emails. Staff are very nice and welcoming Instant Estimat Get an AI powered repair cost prediction +"Virtual Consultation or Mercedes-Benz of Arlington Mercedes-Benz $\star \star \star \star \star \star 4.3$ 873 reviews In Person Consultation" of Arlington Collision 4013 5th Rd North, Arlington MBUSA ELITE CERTIFIED From Our Carwise[™] Bloc Brian, The service representative at the body shop fully addressed the issue. He researched previous visits on the subject and proved the appropriate resolution. I was recommended to Schedule an in-person appointment Book Appointmen Instant Estimate Get an AI powered repair cost prediction

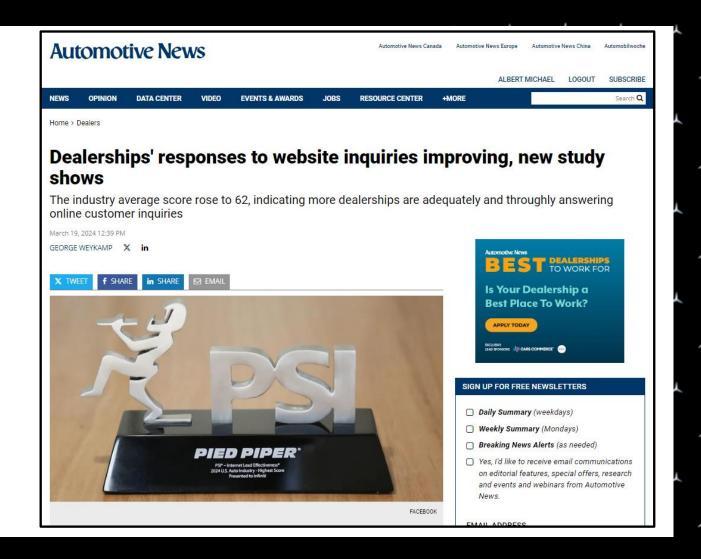
Mercedes-Benz

After Hours Contact

Response Time Matters

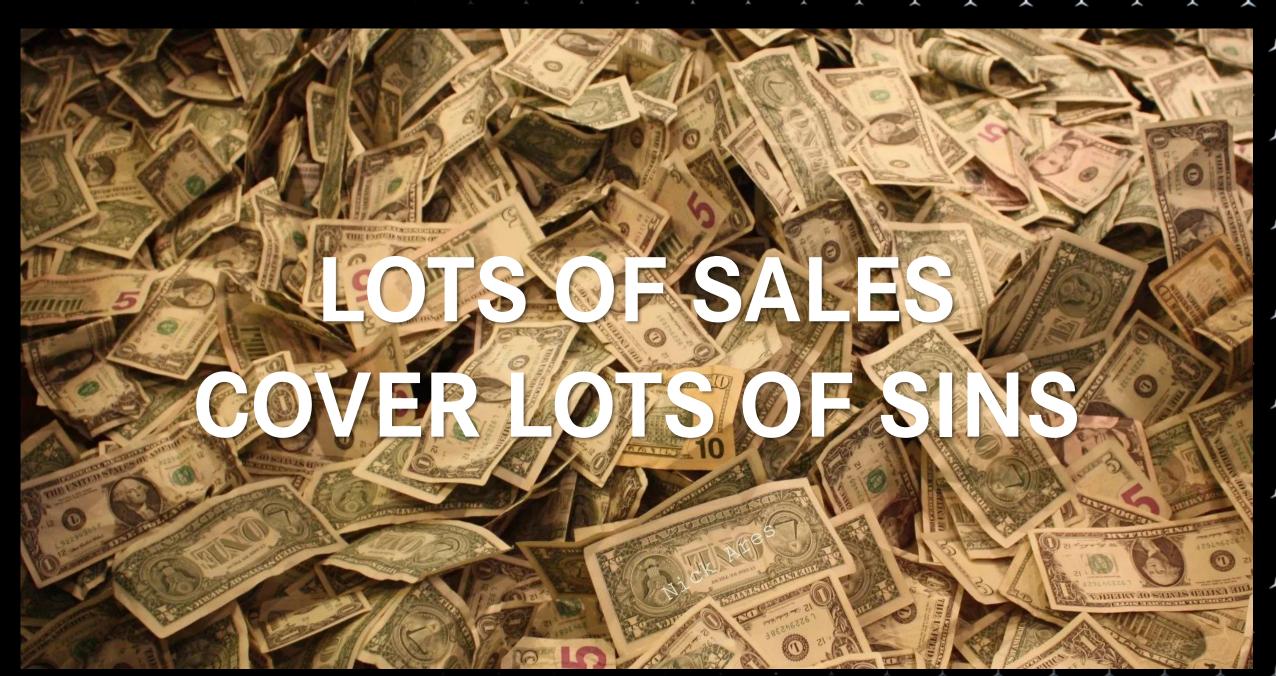
- Chat
- Estimate Requests
- Email
- Assignments Received

Consumers will often select the company that responds the quickest!



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Average Repair Order (by State)

2023 National average: \$5164 (up \$413 or 9%)

	2023	2022	2021	2020
ALABAMA	\$4,833	\$4,312	\$3,783	\$3,129
ALASKA	\$4,327	\$4,225	\$3,776	\$3,397
ARIZONA	\$5,701	\$5,039	\$4,459	\$3,833
ARK.	\$5,746	\$5,360	\$4,584	\$3,936
CALIF.	\$5,424	\$4,953	\$4,520	\$3,859
COLO.	\$6,047	\$5,152	\$4,408	\$4,257
CONN.	\$5,311	\$4,579	\$4,353	\$3,589
D.C.	\$3,319	\$3,565	\$3,486	\$2,114
DEL.	\$4,021	\$3,688	\$3,363	\$2,848
FLORIDA	\$5,136	\$4,815	\$3,883	\$3,264
GEORGIA	\$5,959	\$5,235	\$4,451	\$3,609
HAWAII	\$4,506	\$4,300	\$3,848	\$3,512
IDAHO	\$6,074	\$5,252	\$4,224	\$3,542
ILLINOIS	\$5,266	\$4,940	\$4,288	\$3,378
INDIANA	\$5,363	\$4,708	\$3,999	\$3,577
IOWA	\$5,270	\$5,270	\$4,514	\$3,604
KANSAS	\$5,338	\$5,264	\$4,670	\$3,835

41301 9%)													
	2023	2022	2021	2020									
KENTUCKY	\$5,171	\$4,718	\$4,200	\$3,503									
LOUISIANA	\$5,691	\$5,255	\$4,912	\$3,565									
MAINE	\$3,910	\$3,497	\$3,134	\$2,737									
MARYLAND	\$4,904	\$4,398	\$3,763	\$2,963									
MASS.	\$4,817	\$4,435	\$3,892	\$3,303									
MICHIGAN	\$5,325	\$4,995	\$4,364	\$3,415									
MINNESOTA	\$5,461	\$5,315	\$4,515	\$3,699									
MISSISSIPPI	\$5,238	\$4,974	\$4,265	\$3,589									
MISSOURI	\$5,399	\$4,895	\$4,350	\$3,793									
MONTANA	\$6,511	\$6,041	\$4,966	\$4,374									
NEBRASKA	\$5,773	\$5,371	\$4,490	\$3,946									
NEVADA	\$4,829	\$4,442	\$4,028	\$2,803									
N.H.	\$4,684	\$4,062	\$3,658	\$3,124									
NEW JERSEY	\$5,553	\$5,123	\$4,417	\$3,616									
NEW MEXICO	\$4,618	\$4,717	\$4,318	\$3,786									
NEW YORK	\$5,765	\$5,233	\$4,541	\$3,587									
N.C.	\$5,141	\$4,692	\$3,922	\$3,327									

	2023	2022	2021	2020
N.D.	\$4,456	\$4,287	\$4,271	\$3,702
оню	\$5,012	\$4,647	\$4,119	\$3,281
OKLAHOMA	\$5,504	\$4,956	\$4,349	\$3,498
OREGON	\$4,915	\$4,687	\$4,071	\$3,308
PENN.	\$4,830	\$4,479	\$3,907	\$3,259
R.I.	\$6,116	\$5,134	\$4,303	\$3,392
S.C.	\$4,708	\$4,445	\$3,784	\$3,228
S.D.	\$5,480	\$5,164	\$4,505	\$4,195
TENNESSEE	\$5,494	\$4 932	\$4,225	\$3,358
TEXAS	\$5,545	\$4,857	\$,302	\$3,590
UTAH	३३,३ ४ ४	३4,9 58	_{२4} ,140	\$3,516
VERMONT	\$3,607	\$3,659	\$3,056	\$2,761
VIRGINIA	\$4,555	\$3,819	\$3,446	\$2,956
WASH.	\$5,279	\$5,009	\$4,190	\$3,715
W.V.	\$5,050	\$4,768	\$4,288	\$3,376
WISCONSIN	\$5,426	\$5,103	\$4,299	\$3,386
WYOMING	\$5,719	\$4,829	\$4,910	\$4,923

Green = Highest by year Red = Lowest per year

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Source: Collision Advice



													-		Green =
	2023	2022	2021	2020		2023	2022	2021	2020		2023	2022	2021	2020	Highest by y
ALABAMA	18.2	17.3	17.1	14.55	KENTUCKY	19.0	18.3	17.5	15.62	NORTH DAKOTA	13.5	13.6	13.9	12.12	Red =
ALASKA	17.1	17.9	16.3	15.95	LOUISIANA	18.1	17.6	18.0	14.05	оню	18.7	18.1	17.5	16.04	_
ARIZONA	20.3	20.1	19.3	17.58	MAINE	17.3	16.4	16.1	14.82	OKLAHOMA	20.8	19.1	18.7	15.78	Lowest per y
ARKANSAS	19.6	18.5	17.6	16.02	MARYLAND	20.2	19.4	18.2	15.84	OREGON	20.1	20.4	19.3	17.12	
CALIFORNIA	19.2	18.8	18.5	17.41	MASS.	22.7	22.1	21.3	19.31	PENNSYLVANIA	18.0	17.9	17.1	15.28	
COLORADO	21.4	20.3	18.4	19.18	MICHIGAN	19.9	19.5	18.8	15.81	RHODE ISLAND	23.1	20.1	18.6	16.79	
CONNECTICUT	20.2	19.3	19.8	16.83	MINNESOTA	18.3	18.3	17.9	15.03	S.C.	18.6	18.4	17.2	15.80	
DIST. OF COL.	20.1	18.7	18.3	13.88	MISSISSIPPI	16.8	17.1	16.1	14.24	SOUTH DAKOTA	16.5	17.0	15.4	15.34	
DELAWARE	18.2	17.5	17.1	14.99	MISSOURI	19.6	18.9	18.2	16.23	TENNESSEE	19.3	18.5	17.7	14.94	
FLORIDA	20.0	19.9	17.8	16.04	MONTANA	20.8	19.8	18.6	17.30	TEXAS	20.8	19.6	18.6	16.71	
GEORGIA	23.1	22.3	20.3	17.50	NEBRASKA	19.4	19.1	18.0	16.40	UTAH	21.5	20.3	18.6	16.68	
HAWAII	14.5	14.5	13.7	13.57	NEVADA	18.6	18.1	18.6	14.53	VERMONT	15.1	15.8	14.6	13.14	
IDAHO	20.3	19.5	19.1	16.73	NEW HAMPSHIRE	20.7	19.7	18.7	16.65	VIRGINIA	18.2	17.5	17.0	15.60	
ILLINOIS	20.0	20.0	18.6	15.77	NEW JERSEY	20.0	19.6	18.3	16.44	WASHINGTON	19.7	19.9	18.9	17.45	
INDIANA	19.2	18.0	16.7	15.67	NEW MEXICO	18.4	19.0	17.9	16.49	WEST VIRGINIA	18.0	18.1	17.2	14.33	
IOWA	16.8	17.5	16.2	13.89	NEW YORK	22.9	22.3	20.8	17.65	WISCONSIN	18.0	17.8	16.2	14.10	
KANSAS	19.1	19.6	18.8	15.95	N.C.	19.9	19.2	17.8	15.74	WYOMING	16.4	15.5	17.0	17.99	

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Source: Collision Advice

Certified Collision Center Meeting 2024 | MBUSA 102

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Average Paint Labor Hours (Per Estimate)

	2023	2022	2021	2020		2023	2022	2021	2020		2023	2022	2021	2020	Highest by y
ALABAMA	9.7	9.4	9.1	8.69	KENTUCKY	10.1	10.0	9.6	8.99	NORTH DAKOTA	7.6	7.5	8.1	7.32	Red =
ALASKA	8.5	8.6	8.4	8.26	LOUISIANA	10.1	10.0	10.3	8.74	оню	9.7	9.6	9.4	8.62	Lowest per y
ARIZONA	9.8	9.7	9.4	9.04	MAINE	8.9	8.6	8.5	8.29	OKLAHOMA	10.0	10.0	9.4	8.81	Lowestpery
ARKANSAS	10.2	10.0	9.8	9.38	MARYLAND	10.0	9.7	9.2	8.57	OREGON	9.6	9.7	9.2	8.66	
CALIFORNIA	9.6	9.5	9.4	9.01	MASS.	10.9	10.7	10.5	9.91	PENNSYLVANIA	9.7	9.5	9.2	8.61	
COLORADO	9.8	9.7	9.1	9.09	MICHIGAN	10.4	10.4	9.9	9.10	RHODE ISLAND	11.8	11.1	10.4	9.38	
CONNECTICUT	10.4	10.1	10.2	9.36	MINNESOTA	9.5	9.0	9.4	8.60	S.C.	9.8	9.7	9.2	8.70	
DIST. OF COL.	9.3	8.7	8.7	7.58	MISSISSIPPI	9.5	9.7	9.5	8.78	SOUTH DAKOTA	9.0	9.0	8.5	8.63	
DELAWARE	9.0	9.0	8.8	8.13	MISSOURI	9.6	9.5	9.3	8.81	TENNESSEE	10.7	10.2	9.7	8.94	
FLORIDA	10.4	10.4	9.6	9.18	MONTANA	10.8	10.1	9.7	9.48	TEXAS	10.0	9.7	9.2	8.78	
GEORGIA	11.0	10.7	10.1	9.47	NEBRASKA	9.7	9.7	9.3	8.82	UTAH	10.2	9.9	9.4	8.92	
HAWAII	9.3	9.2	8.9	8.85	NEVADA	9.3	9.3	9.2	8.03	VERMONT	8.7	9.1	8.5	8.40	
IDAHO	10.3	9.8	9.4	8.75	NEW HAMPSHIRE	10.2	9.9	9.6	8.99	VIRGINIA	9.4	9.1	8.9	8.46	
ILLINOIS	9.8	9.9	9.5	8.53	NEW JERSEY	10.6	10.5	10.0	9.34	WASHINGTON	9.7	9.7	9.2	8.84	
INDIANA	10.1	9.8	9.1	8.94	NEW MEXICO	8.9	9.4	9.0	8.69	WEST VIRGINIA	9.7	9.9	9.7	8.83	
IOWA	9.2	9.3	8.9	8.52	NEW YORK	11.2	11.0	10.5	9.63	WISCONSIN	9.4	9.4	9.1	8.45	
KANSAS	9.9	10.1	9.5	8.90	N.C.	10.1	9.9	9.2	8.68	WYOMING	9.2	8.9	9.0	9.10	

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Source: Collision Advice

Average Frame Labor Hours (Per Estimate)

	2023	2022	2021	2020		2023	2022	2021	2020		2023	2022	2021	2020	Highest by ye
ALABAMA	0.2	0.2	0.2	0.21	KENTUCKY	0.5	0.5	0.5	0.51	N. DAKOTA	0.2	0.2	0.3	0.13	Red =
ALASKA	0.1	0.1	0.1	0.10	LOUISIANA	0.5	0.5	0.6	0.37	оню	0.3	0.4	0.4	0.30	Lowest per ye
ARIZONA	0.3	0.3	0.2	0.31	MAINE	0.2	0.2	0.2	0.22	OKLAHOMA	0.3	0.5	0.3	0.30	
ARKANSAS	0.3	0.3	0.3	0.32	MARYLAND	0.4	0.3	0.3	0.26	OREGON	0.3	0.3	0.3	0.33	
CALIFORNIA	0.3	0.3	0.4	0.46	MASS.	0.4	0.4	0.4	0.37	PENNSYLVANIA	0.4	0.3	0.3	0.30	
COLORADO	0.2	0.2	0.2	0.19	MICHIGAN	0.5	0.5	0.6	0.48	RHODE ISLAND	0.5	0.5	0.5	0.41	
CONN.	0.4	0.4	0.4	0.33	MINNESOTA	0.2	0.2	0.2	0.18	S.C.	0.3	0.3	0.3	0.24	
D.C.	0.2	0.1	0.1	0.04	MISSISSIPPI	0.2	0.3	0.3	0.27	S. DAKOTA	0.1	0.1	0.2	0.18	
DELAWARE	0.2	0.2	0.1	0.21	MISSOURI	0.2	0.2	0.2	0.25	TENNESSEE	0.6	0.5	0.4	0.50	
FLORIDA	0.3	0.3	0.2	0.28	MONTANA	0.3	0.3	0.2	0.21	TEXAS	0.3	0.2	0.2	0.22	
GEORGIA	0.4	0.4	0.3	0.34	NEBRASKA	0.4	0.3	0.4	0.32	UTAH	0.3	0.2	0.2	0.15	
HAWAII	0.2	0.2	0.1	0.19	NEVADA	0.2	0.2	0.3	0.26	VERMONT	0.2	0.3	0.2	0.24	
IDAHO	0.3	0.3	0.2	0.27	NEW HAMPSHIRE	0.4	0.4	0.3	0.27	VIRGINIA	0.2	0.3	0.2	0.24	
ILLINOIS	0.2	0.2	0.2	0.18	NEW JERSEY	0.4	0.5	0.4	0.40	WASHINGTON	0.3	0.4	0.2	0.23	
INDIANA	0.4	0.3	0.3	0.33	NEW MEXICO	0.3	0.3	0.4	0.45	WEST VIRGINIA	0.3	0.4	0.4	0.31	
IOWA	0.2	0.2	0.2	0.20	NEW YORK	0.4	0.3	0.3	0.24	WISCONSIN	0.2	0.2	0.2	0.22	
KANSAS	0.3	0.3	0.3	0.26	N.C.	0.3	0.3	0.2	0.25	WYOMING	0.1	0.1	0.1	0.13	

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Source: Collision Advice

Average Mechanical Labor Hours (Per Estimate)

	2023	2022	2021	2020		2023	2022	2021	2020		2023	2022	2021	2020	Highest by yea
ALABAMA	0.2	0.2	0.2	0.21	KENTUCKY	0.5	0.5	0.5	0.51	N. DAKOTA	0.2	0.2	0.3	0.13	Red =
ALASKA	0.1	0.1	0.1	0.10	LOUISIANA	0.5	0.5	0.6	0.37	оню	0.3	0.4	0.4	0.30	Lowest per yea
ARIZONA	0.3	0.3	0.2	0.31	MAINE	0.2	0.2	0.2	0.22	OKLAHOMA	0.3	0.5	0.3	0.30	
ARKANSAS	0.3	0.3	0.3	0.32	MARYLAND	0.4	0.3	0.3	0.26	OREGON	0.3	0.3	0.3	0.33	
CALIFORNIA	0.3	0.3	0.4	0.46	MASS.	0.4	0.4	0.4	0.37	PENNSYLVANIA	0.4	0.3	0.3	0.30	
COLORADO	0.2	0.2	0.2	0.19	MICHIGAN	0.5	0.5	0.6	0.48	RHODE ISLAND	0.5	0.5	0.5	0.41	
CONN.	0.4	0.4	0.4	0.33	MINNESOTA	0.2	0.2	0.2	0.18	S.C.	0.3	0.3	0.3	0.24	
D.C.	0.2	0.1	0.1	0.04	MISSISSIPPI	0.2	0.3	0.3	0.27	S. DAKOTA	0.1	0.1	0.2	0.18	
DELAWARE	0.2	0.2	0.1	0.21	MISSOURI	0.2	0.2	0.2	0.25	TENNESSEE	0.6	0.5	0.4	0.50	
FLORIDA	0.3	0.3	0.2	0.28	MONTANA	0.3	0.3	0.2	0.21	TEXAS	0.3	0.2	0.2	0.22	
GEORGIA	0.4	0.4	0.3	0.34	NEBRASKA	0.4	0.3	0.4	0.32	UTAH	0.3	0.2	0.2	0.15	
HAWAII	0.2	0.2	0.1	0.19	NEVADA	0.2	0.2	0.3	0.26	VERMONT	0.2	0.3	0.2	0.24	
IDAHO	0.3	0.3	0.2	0.27	NEW HAMPSHIRE	0.4	0.4	0.3	0.27	VIRGINIA	0.2	0.3	0.2	0.24	
ILLINOIS	0.2	0.2	0.2	0.18	NEW JERSEY	0.4	0.5	0.4	0.40	WASHINGTON	0.3	0.4	0.2	0.23	
INDIANA	0.4	0.3	0.3	0.33	NEW MEXICO	0.3	0.3	0.4	0.45	WEST VIRGINIA	0.3	0.4	0.4	0.31	
IOWA	0.2	0.2	0.2	0.20	NEW YORK	0.4	0.3	0.3	0.24	WISCONSIN	0.2	0.2	0.2	0.22	
KANSAS	0.3	0.3	0.3	0.26	N.C.	0.3	0.3	0.2	0.25	WYOMING	0.1	0.1	0.1	0.13	
				-			_	1	1						-

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Source: Collision Advice

Average Labor Hours

Texas

\$688.00 increase in Severity

Body Labor Hour Increase 1.2

Refinish Labor Hour Increase .3

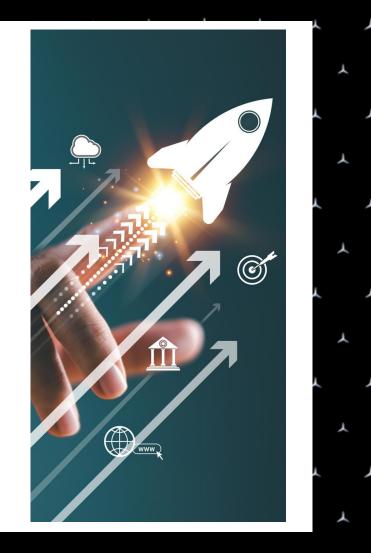
Frame Labor Hour Increase 0.1

Mechanical Labor Hour Increase 0.2

 $1.8 \times 60.00 = 108.00$

What's the additional \$580 attributed to?

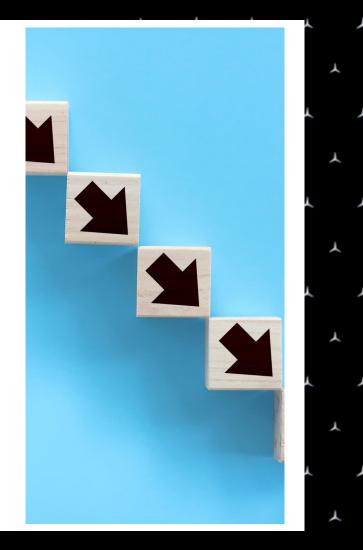
What will shops do to grow sales in the future without ADAS, Scanning, Labor Rate Increases, etc.?



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Claims Count Has Declined

- Claims were down nationwide 9% in March
- Claims count were down double digits in April
- Claims count down double digits in May as well.
- Resulting in the average shops backlog has slowed down to less than
 a few days in most markets
 - a few days in most markets
- We must get back to the basics:
 - Monitoring RO count month-to-month and each month compared to prior year
 - Focus on Sales Focus on capture rate and following up on unscheduled estimates



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Claims Count Has Declined – Why?

1. Mild Winter

- 2. Total losses are increasing. Insurers receiving such high salvage bids from overseas that vehicles are totaling out at 45-50%
- 3. Some premiums have increased as much as 30%
- 4. Premium increases have created a reluctancy for consumers to file claims
- 5. ADAS is having an effect
- 6. The COVID back log has gone away
- 7. The economy is GOOD, but the Narrative that people are hearing in the in media is negative!
- 8. This is impacting spending habits.

CARFAX[®] Cars For Sale CARFAX Reports My Car Maintenance Used Car Values Research Help

Are Car Accidents Increasing or Decreasing?

The number of car accidents decreased in 2022 relative to 2021. Comparing those two years, the estimated number of police-reported crashes showed a 2.8% decrease in 2022. The number of people injured in traffic crashes also decreased in 2022, falling 4.6%.

Traffic fatalities declined in 2022 relative to 2021. There were 716 fewer people killed in motor vehicle crashes in 2022, a 1.7% decrease from the prior year. The fatality rate per 100 million vehicle miles traveled fell in 2022 by 3.6% compared to 2021.

How Many Cars Are Totalled Each Year?

Exact numbers concerning how many cars are totaled each year are hard to come by. However, according to a 2024 consumer study by global data and analytics company LexisNexis Risk Solutions, 27% of all collision claims in 2023 were deemed total losses. The company estimates that total loss claims have increased 29% since 2020.

What Is the Annual Cost of Accident Damage in the U.S.?

Car accidents significantly impact the U.S. economy. According to the U.S. Department of Transportation's most recent estimate, the annual economic cost of accident damage in the U.S. is \$340 billion.

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Consumers Paying Out of Pocket For Repairs

Almost 40% of Insured Drivers in Incidents Have Chosen to Pay Out of Pocket for Repairs

Written by Maggie Davis Edited by Dan Shepard

Published on: August 19, 2024

Editorial Note: The content of this article is based on the author's opinions and recommendations alone. It may not have been reviewed, commissioned or otherwise endorsed by any of our network partners.

Dealing with insurance after an accident can be a nightmare – and some drivers try to avoid it altogether.

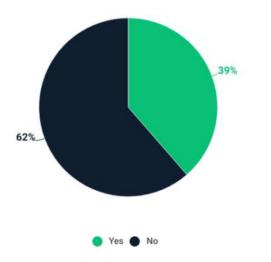
According to the latest LendingTree survey of 2,000 U.S. consumers, 39% of insured drivers who've been in an auto accident or incident have bypassed their insurance for repairs. What's more, 24% have filed a claim and later regretted it.

Here's what else we found.

Key findings

- Many prefer to pay out of pocket for auto damage. Among insured drivers in an accident or incident, 39% have bypassed their auto insurance for repairs. When asked why, 59% said the damage was minimal, 44% said their deductible was higher than the cost and 42% didn't want their insurance to increase.
- Some keep these incidents to themselves. 57% of those who've paid out of pocket didn't disclose the incident to their insurer. A high deductible doesn't appear to be a barrier for many drivers since 76% had a deductible of less than \$1,000 when they paid out of pocket, and 65% spent less than \$1,000 on repairs.
- Filing claims has led to regret for some drivers. Almost a quarter (24%) of insured drivers in an accident or incident have filed a claim and later regretted doing so. The top reasons for post-claim regret are significantly higher insurance rates (59%), a decreased vehicle value (36%) and an expensive deductible (33%). Among drivers who've filed a claim in the past five years, 26% said their annual insurance rate increased by at least 25%.
- Overall, most drivers want to avoid insurance. Almost three-quarters (73%) of insured drivers in an incident would generally prefer to pay out of pocket for a small issue rather than go through insurance, and 49% have repaired damage their insurance would have covered.

Have you ever had an auto incident where you decided not to go through your insurance company to get repairs done (i.e., you paid out of pocket)?



Source: LendingTree survey of 806 insured drivers who've been in an auto accident or incident, conducted in June 2024. Note: Totals don't equal 100% due to rounding.

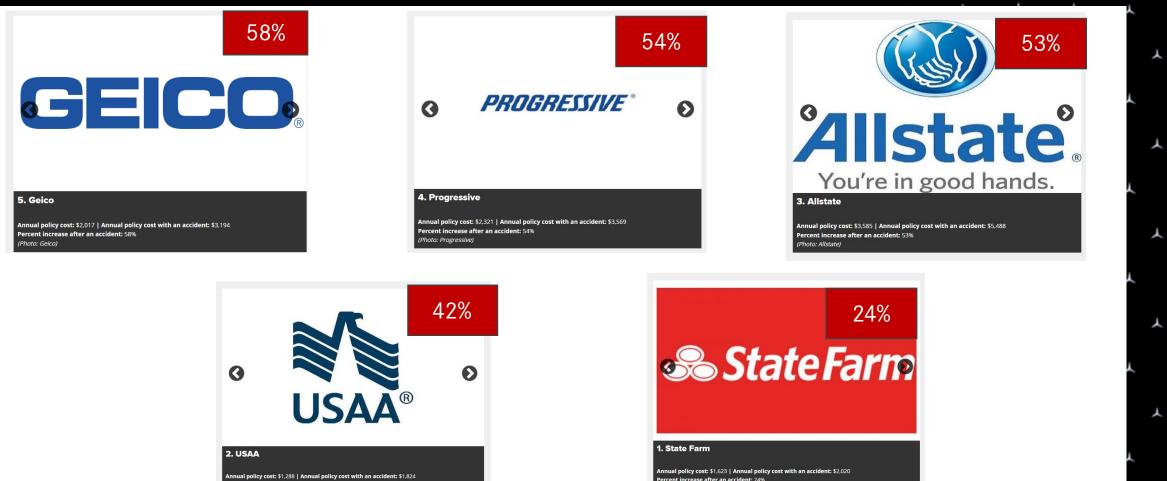


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Customer Pay is Growing



Annual policy cost: \$1,288 | Annual policy cost with an accident: \$1,824 Percent increase after an accident: 42% (Photo: USAA)

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Photo: State Farm)

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IMPORTANCE OF FILE DOCUMENTATION

- It is critical to have a clear and accurate vision of the repair plan when writing an estimate
- Each line on the estimate needs to speak for itself
- The biggest areas to work on to help get more of these assignments approved are:
 - Line Notes
 Photo Quality
 Document in order of repair



YOUR ESTIMATE NEEDS TO TELL A STORY!

Justifying Each Line on the Repair Plan

1. Is it required?	2. Is it included?	3. Is there a pre- determined time?	4. If not, what is it worth?
OEM Repair Procedures	Estimating Systems	Estimating Systems	Time Study
Mercedes Xentry WIS	www.DEGweb.org	www.DEGweb.org	Print an Invoice
Paint Manufacturer's Bulletins	SCRS Guide to Complete Repair Planning / SCRS BOT Tool. <u>www.scrs.com/bot</u>		OEM Warranty Times
Material Manufacturer's Bulletins (3M, Wurth, Kent, etc.)	Collision Advice "Who Pays for What" survey		Equipment Manufacturer's Documents
Equipment Manufacturer's Bulletins			Xentry WIS & STAR
Internet			Internet
Scan Tools (Star Diagnostic Tester)			Collision Advice "Who Pays for What" survey
The Vehicle			

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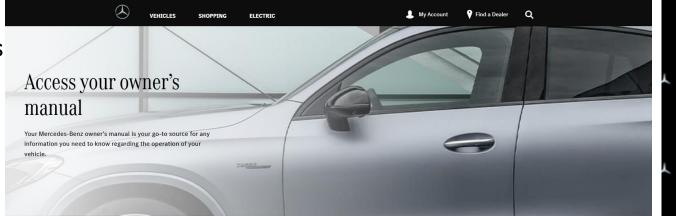
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Mercedes-Benz Owner's Manuals

https://www.mbusa.com/en/owners/manuals



Select your vehicle. Choose the class and model of your vehicle below to access your owner's manual.

All models Mercedes-Benz Mercedes-AMG Mercedes-Maybach

Find model		Sedan		
Search	0. Print	A·Class	C-Class	E-Class
Electric				
Models				
si Sedan		EQE	EQS	S-Class
SUV		Electric	Electric	
wagon		and the second s	A A A A A A A A A A A A A A A A A A A	and on
Hatch		8-0-4		
Coupe				
cabriolet				

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Mercedes-Benz Owner's Manuals

	SHOPPING ELECTRIC	💄 My Account 🕴 Find a Dealer 🛛 🔾	
All manuals > C-Class Sedan February 2024 W206 MBUX 🗧	Mercedes-Benz GenuineParts	Sear	rch through this manual
✓ General notes	Mercedes-Benz GenuineParts		
Protecting the environment			
Mercedes-Benz GenuineParts	Provision of the second sec	not using recycled reconditioned components	~
Touch-sensitive controls	I Note: Impairment of the operating efficiency of the welding	restraint systems from installing accessory parts or fi	rom repairs or 🗸 🗸 🗸
Operating safety	weiting		
Installing the license plate on the front license plate bracket	You could jeopardize the operating safety of your vehicle if yo been approved by Mercedes-Benz. Safety-critical systems (e.		
National information for components relevant to radio regulation	of equal quality. Use only tires, wheels and accessory parts the		
Diagnostics connection	Mercedes-Benz GenuineParts are subject to strict quality ins Mercedes-Benz vehicles and adapted to them. Therefore, onl		actured or selected for
Qualified specialist workshop	More than 300,000 different Mercedes-Benz GenuineParts a	re available for Mercedes-Benz models.	
Correct use of the vehicle	All Mercedes-Benz Service Centers maintain a supply of Merc	edes-Benz GenuineParts for necessary service and repa	ir work. In addition,
Notes for persons with electronic medical aids	strategically located parts delivery centers ensure quick and		
Problems with your vehicle	 Always specify the vehicle identification number (VIN) Mc 	pre when ordering Mercedes-Benz GenuineParts.	

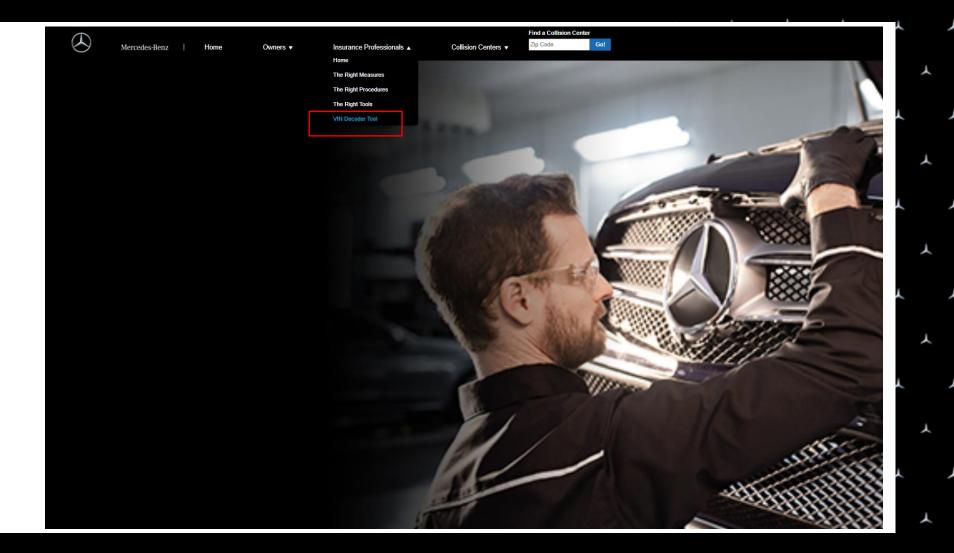
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MBCollisionCenters.com

 Build Sheet / production sheet



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VIN Decoder Tool

Mbcollisioncenters.com



2024 GLS450W4 VIN: 4JGFF5KE7RB242375 PO#:

Dealer Code:	08522	Dealer Address:	PHIL LONG AUTOHAUS, LLC
Region:	03		730 AUTOMOTIVE DRIVE
VPC:	BALTIMORE		COLORADO SPRINGS, CO 80905.

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Standard Accessories

ode	Description	Code	Description
1U	Pre-installation for Navigation Services	845	Elect.Folding 3rd Row Seat
4U	Transparent bonnet	852	Advanced Alarm with Parking Collision Detection
2B	Owners Manual	868	12.3" Center Display
4U	Smartphone Integration	871	HANDS FREE ACCESS
5U	Apple CarPlav™	876	Premium Interior Lighting
70	Android Auto	889	KEYLESS-GO®
15	Adaptive Damping System Plus	890	Power Liftgate
20	Pre-installation for MBUX Entertainment	897	Inductive wireless charging and NFC pairing
32	Garage Door Opener	901	Interior Chrome Package
33	Active Distance Assist DISTRONIC®	915	Large Capacity Fuel Tank
35	PARKTRONIC with Active Parking Assist	986	Identification label with VIN number
3U	Active Stop-and-Go Assist	989	VIN Code
42	Passenger Seat Memory w/ adj. Thigh Support	B01	48 Volt System
49		K32	
	Auto-dimming Driver and Rearview Mirrors License Plate Holder	K32	Active Lane Change Assist
64		K33	Extended Restart in Stop-and-Go Traffic
66	Active Distance Assist DISTRONIC® with Active Steering	P17	Route-Based Speed Action
	Assist		KEYLESS-GO Package
70	GPS Antenna	P20	Driver Assistance Package
73	Vehicle Exit Warning	P47	Surround View System
75	Power Driver Seats with Memory	P49	Mirror Package
92	Pre-Safe Impulse Side	P64	Memory Package
94	Driver Knee Airbag	P82	Guard 360
20	Sound personalisation	U01	Rear belt status indication in the instrument display
ŧU	Remote Services Premium	U08	MB-Tex Upper Dash
51	eCall-Emergency System	U10	Passenger Seat Weight Sensing System
55	Extended MBUX functions"	U19	Augmented Video for Navigaton
32	HERMES Communications module LTE	U82	USB Ports in Rear
65	MB Navigation	054	Modification year 23/2
ľU	Remote Services Advanced	226	7 Seat Configuration
11	Heated & Ventilated Front Seats	297	Power Rear-Side Window Sunshades
3	Panorama Sunroof	367	Live Traffic
1	9G-TRONIC 9-Speed Automatic Transmission	436	Comfort Front Headrests
1	English Inscriptions	443	Heated Steering Wheel
5	Tire Pressure Monitoring System	51U	Black Fabric Headliner
9	AIRMATIC	582	5-Zone Climate Control
4	USA specification	636	Omission of Warning Triangle
0	Power Folding Mirrors	666	Transportation Protection Foil
ň	Surround View Camera	763	Remote Key with Panic Button
3	Traffic Sign Assist	804	Technical modifications
7	HD Radio	811	Burmester® High-End 3D-Surround Sound System
4	MBUX multimedia system	824	Engine air intake screen
6	SiriusXM Radio with Free Trial Period	883	Soft-Close Doors
13	Double Sun Visors	88B	Passive person presence reminder
16	Active Speed Limit Assist	902	Rapid Heating Front Seats
1	Active Speed Limit Assist Anti-Theft Alarm System	902 94B	Integrated Starter Generator Generation 2
1	4-Zone Climate Control	94B B51	TIREFIT Kit
		H22	Natural Grain Brown Walnut Trim
7	Side Mirror Logo Projector	HZZ L5C	
8	Adaptive High Beam Assist		Multifunction sports steering wheel in nappa leather
14	Omission of first-aid kit	PBG	Preinstallation for Navigation and Comfort Connectivity
0	Active Curve Illuminating Full LED		package
23	Cargo Cover	R01	High Performance Tires
2B	Additional USB Ports	RPK	23" AMG Twin 5-Spoke - Black
40	Privacy Glass	U26	AMG Floor Mats

Options

DC1 DG1 DX2 Night Package AMG Line Exterior Package Pinnacle Trim

No Pricing information available for this Vehicle

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Using Xentry



r-Sales Platform		÷	Ⅲ • • ▲ ≡
*			
Good evening,	Welcome to your After-Sales platform. You are just a few clicks away from your personalized "My fi Set up your workspace according to your precise needs usin You can select the applications relevant to you quickly and You can compile your most important information and conto Clicking on "Save" creates your personal favorites and you of Enjoy your workspace!	ent pages using user-defined links. ;an start.	Edit
Client Checker	Download Portal Repair & Maintenance Information	Dynamic Wiring Diagram	Global Training Learning Space
Coperation Time	Parts Information	WIS WIS	Wheel Alignment Online
XENTRY Damage Code	C XENTRY Support System	XSF XSF	

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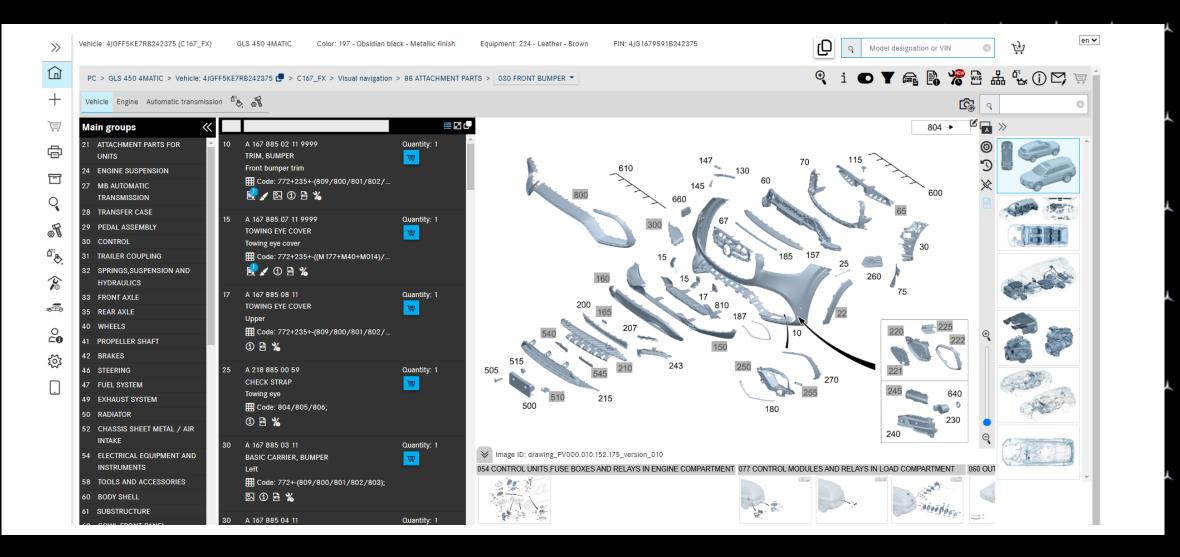
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Using Parts Information "EPC"



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Using WIS For Repair Information

ons > Standard > Hit list >	1	
General notes: Passenger ca ah88.00-z-9999az 'MODEL all'	ars: Detachable body components, exterior flaps	२ (1) 🛛 👁
	apair to detachable plastic components 24, 129, 140, 168, 202, 208, 210, 414'	R 1 R 1 R 1 R 1 R 1 R 1 R 1 R 1 R 1 R 1
General notes on filling d ah88.00-p-1000-02cr 'MODEL	etachable body components 450.418'	Rev 10 🖾 🔘
General information on th ah88.20-p-1000-01a 'Model all		< 1 □ □ □
Notes on electric trunk lid ah88.50-p-0001-01a 'MODEL 12	d emergency release 29, 202, 203, 208, 210, 215, 220 with CODE 491(US version) with electric trunk inside door handle [.]	Q (1) 🕅 🔘
General notes on repairin		R (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Remove/install front fender ar88.10-p-1301me 'Model 167'	liner	R (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Remove/install rear fender ar88.10-p-1302me 'Model 167'	ner	Q (1) [7] (2)
Remove/install front bumper ar88.20-p-2000me 'Model 167'	r	Q (1) [2] (2)
Adjust front bumper ar88.20-p-2001me 'Model 167'		R (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Disassemble/assemble from ar88.20-p-2050me 'Model 167'	, bumper	R (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Disassemble/assemble rear ar88.20-p-2100mez 'Model167.9 '	bumper	R (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Remove/install rear bumper ar88.20-p-2200me 'Model 167'		R (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Remove/install carrier for re ar88.20-p-2250me 'Model 167'	ar bumper	R 🛈 🖾 👁

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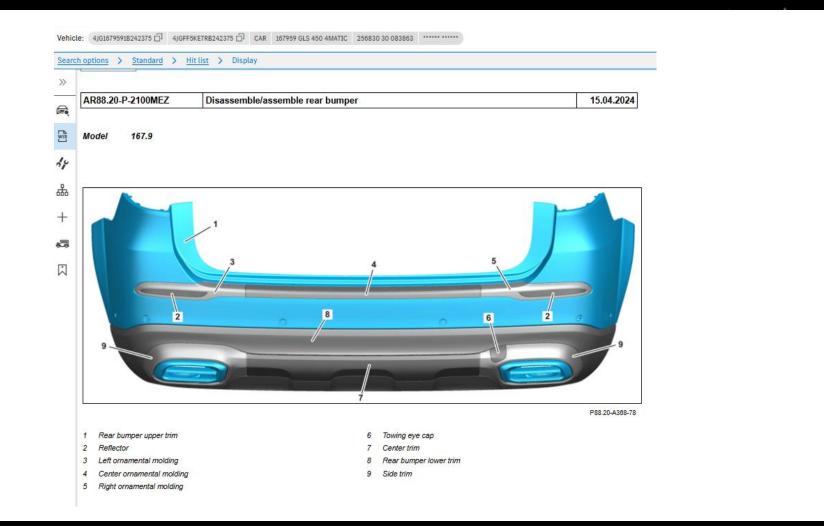
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WIS Instructions



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WSM – WIS Service Media

Vehic	e: 4JG1679591B242375	5 🗇 CAR 167959	9 GLS 450 4MATIC 256830 30 083863	*****		7
Searc	h options					~
>>			Reception report			
R		\otimes	XENTRY Portal WIS Service Media			
Les Les			. ≙ ≡			~
44				AR — Calibrate augmente	ed reality camera	7
品		Sp			Validity	~
+					Model all (CAR) with code U19 (Augmented reality video)	
a	WSM/WIS Classic	All main				~
				This film contains no subtitles. WSM-ID: 01_201800_45, Status: 06/2018		
				> Important note		
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Locating Calibration Requirements

Vehicle: 4JG1679591B242375 🗗 4JGFF5KE7RB242375 🗗 CAR 167959 GLS 450 4MATIC 256830 30 083863 ******

Search options > Full text > Hit list > Display

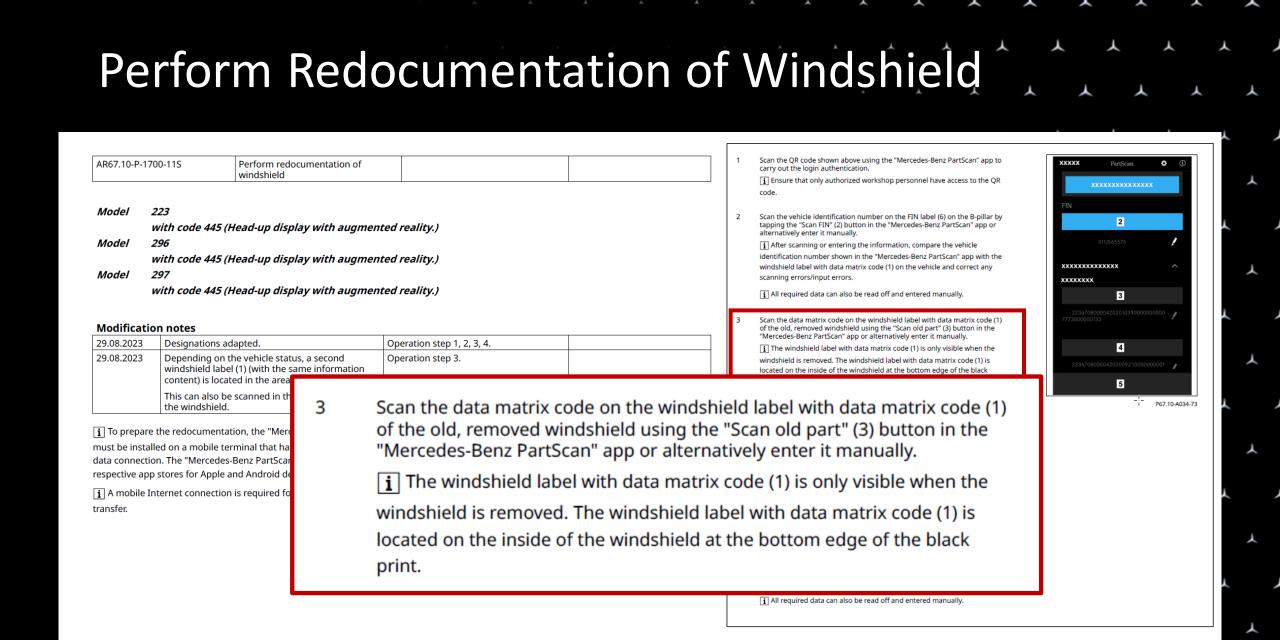
>>				
	Notice	Information on preventing damage to electronic components due to electrostatic discharge		<u>AH54.00-P-0001-01A</u>
	Notice	Notes on preventing damage to electronic components due to a magnetic tool		<u>AH54.00-P-0002-01A</u>
WIS	<u>N</u> X	Remove/install		
10	1	Remove Mercedes star.		AR88.40-P-4053ME
71	2	Remove nuts (1).		
品	3	Remove short and long range radar sensor (B92/12).		
+	4	Release and disconnect electrical connector of short-range and long-range radar sensor (B92/12).		
_	5	Install in the reverse order.		
	6.1	Perform commissioning of short and long range radar sensor (B92/12).	Model 167 as of model year 2022 with code 233 (Adaptive cruise control Plus (DISTRONIC PLUS))	
	AD			AD00.00-P-2000-06ME
	6.2	Perform commissioning of short and long range radar sensor (B92/12).	Model 167 up to model year 2022 with code 233 (Adaptive cruise control Plus (DISTRONIC PLUS))	
			If the short-range and long-range radar sensor (B92/12) has been replaced.	
	κ≌AD			AD00.00-P-2000-06ME
	6.3	Calibrate short and long-range radar sensor (B92/12).	Model 167 up to model year 2022 with code 233 (Adaptive cruise control Plus (DISTRONIC PLUS))	
			If short-range and long-range radar sensor (B92/12) has been removed.	
	ji≆ AD			AD00.00-P-2000-06ME

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Perform Redocumentation of Windshield

AR67.10-I	P-1700S	Remove, install windshield		07.07.2021	▲Warning	Risk of injury from cutting wire tearing or becoming hot and from splinters of glass when cutting out bonded windows	Wear protective gloves and safety glasses.	AS67.00-Z-0004-01A
					12	Cut out and remove windshield (1).		AR67.10-P-1000-115X
Model	223						i Helper required for removal of	
	except code Z0	7 (B7 armoring on special prot	ection version)				windshield (1).	
					13	Carry out redocumentation of windshield (1).	Model 223 with code 445 (Head-up display with augmented reality.)	
Modificat	tion notes					0.	except code Z07 (B7 armoring on special	
12.10.2020		a estended	1				protection version)	
12.10.2020	Work procedur	e extended.		I			When replacing windshield (1).	AR67.10-P-1700-115
						Install		AK07.10-P-1700-113
1 Winds	hield	[Notice	Notes on handling adhesive		AH67.00-P-1000-01A
					14	Prepare window frame of the windshield		AR67.10-P-1700-035
					1.7	(1) for installation.		
					Notice	General notes about painting the body flange in the glazing area		AH98.00-P-9408-06A
			1				Use only primer fillers and primer sticks approved by Daimler AG: https://xentry.daimler.com	
					15	Prepare windshield (1) for installation.	i Model 223 with code 445 (Head-up	AR67.10-P-1700-04S
							(1) Model 225 With code 445 (Head-up display with augmented reality.) except code 207 (B7 armoring on special protection version) Windshield (1) must be replaced.	
			CA		16	Glue new spacers onto windshield (1).	Model 223 except code 445 (Head-up display with augmented reality.) except code 207 (B7 armoring on special protection version) If the windsheld (1) is reused. If the windsheld (1) is reused. Boiltons to determine spacer positions. Remove protective film from spacers only on one side.	
			~0		17	Align windshield (1) in body opening.	i Aid of helper required. Distance between top edge of window	AR67.10-P-1000-095 BE67.10-P-1001-01E
				P67.10-A018-76			and front edge of roof	129 589 03 21 00
					18	Remove protective film from spacers.		
<u> </u>	crushi can ev	hazard from pinching and ing, in extreme cases extremities ren be cut off when caught in hield wiper mechanism.	When working on the windshield wiper mechanism, always switch off the ignition and store transmitter key outside of transmission range (at least 2 m).	AS82.30-Z-0001-01A	19	Apply adhesive material.	 Install windshield (1) within 10 min after applying adhesive material. 	AR67.10-P-1000-085
	winds			AH67.10-P-1000-03MFA			Otherwise the adhesive force of the adhesive material starts to decrease.	
10-10	Notes	on safety-relevant components		AH00.00-Z-0019-01A	20	Close hood.		000 589 86 63 00
X	Remo				20			AR67.10-P-1700-055
1	Remo	ve front drip rails from A-pillars.	Model 223 except code 207 (B7 armoring on special protection version) Model 223.0/1 except code 207 (B7 armoring on special protection version)	AR88.80-P-4000S		Install windshield (1).	Aid of helper required. Observe the manufacturer's specifications for the curing time of the	
2	Remo	ve wiper arms.		AR82.30-P-61005			adhesive material. Perform following work only after curing	
3	Remo	ve covers of air/water duct.					time.	
4	Discor	nnect electrical connectors on	1 The number of electrical connectors		22	Close side window of the driver's door.		
	winds	hield (1) and fix in place to top of hield (1).	can vary depending on the equipment variant.		23	Remove tape and cover material from vehicle.		
5	Remo	ve A-pillar trims.		AR68.30-P-40505	24	Clean repair area.		
6	Remo	ve inside rearview mirror.		AR68.40-P-00015	25	Install augmented reality camera.	Model 223 with code U19 (Augmented	
7	Remo	ve rain and light sensor.		AR82.30-P-78015			reality video)	
		ve multifunction camera.		AR54.21-P-30005			except code Z07 (B7 armoring on special protection version)	
8	Remo							
8		ve augmented reality camera.	Model 223 with code U19 (Augmented				protection version)	AR54.30-P-00045

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Battery Disconnect & Reconnect

Vehicle: WDD223063 🗇 CAR 223063 S 500 4MATIC Limousine

Search options > Standard > Hit list > Display > 1

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Electronic components such as, e.g. the switching unit for the ignition system, control unit for the electronic gasoline, diesel injection system, ABS system, airbag, emergency tensioning retractor etc., may only be heated up to a max. object temperature of 90 °C.

In cases of doubt, a series of tests is to be performed to check the temperature at these points (remove the electronic components beforehand) using a mercury maximum thermometer during the baking phase.

If the maximum permissible temperature is not exceeded, the electronic components need not be removed.

At an object temperature of up to a max. 60 °C (secondary air injection temperature max. 90 °C) no special safety precautions are required.

2 With welding work

Always detach the negative terminal of the battery and cover it up. Detach the test connector for the airbag connector, 10-pin (colored red) in the right footwell and after a waiting time of 2 s after disconnecting the battery, or as of 07/93, detach the coupling on the airbag control unit using the plugin aid

3 After accidents

Electronic control units only need to be changed after an accident when at least one of the following conditions has been fulfilled:

- · The housing is recognizably deformed or damaged.
- The contact surface or mounting console is deformed; the device does not exhibit any signs of external damage.
- The connector is damaged or corroded through moisture.
- Device faults are determined by a function test or the selfdiagnosis.

Li If, when performing repair work, electronic components such as, e.g. the ABS control unit, had to be removed and then used again, then they are to be checked for function after being assembled again.

Read out and erase fault memory.

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Battery Support When Scanning

h	options > Standard >	Hit list > Display		Notice	Notes on battery		AH54.10-P-0001-01A
Г					Connect battery charger		
	AR54.10-P-1127WT	Maintaining on-board electrical system voltage when performing test and diagnosis work on vehicle	03.05.2024	1	Open trim (1) in engine compartment on front passenger side.		
	Model 192, 206, 214	, 223, 232, 230, 254		2	Expose charging terminal point of prefuse box (F150/3) by moving cover (2).	When working on restraint systems, when welding and when working on lines without contact protection, do not maintain the on-board electrical system voltage. The electrical system or electronic components can otherwise be damaged.	
			F150/3	3 I≌ ₩ S	Clip charger positive clamp onto charging terminal point of prefuse box (F150/3), then clip charger ground clamp onto ground terminal point (3). 000 588 07 81 00 Charger	Do not reverse polarity. Otherwise a short circuit will cause damage.	WS54.00-P-0127B
				4	Switch on charger.		
			121		Disconnect battery charger		
				5	Switch off charger.		
			A	6	Disconnect charger ground clamp from ground terminal point (3), then disconnect charger positive terminal from charging terminal point of prefuse box (F150/3).		
	-			7	Close charging terminal point of prefuse box (F150/3) by moving cover (2).		
				8	Close trim (1) in engine compartment on front passenger side.		

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What Do You Think? Ethical or Not?

	#		Pre Wash Car				0.5	
1				1		_		
2	#		Protect vehicle interior	1	10.00		0.2	•
3	#		Research OEM procedures	1	99.95	5 X	7.0	
4	#		Admin Labor: Prepare repair plan & File Documentation	1	1,499.00) Х		Administrative fees to write
5	#		Intake Photos and send to insurance	1			0.5	estimate / repair plan
6	VEHICLE	DIAGNOSTI	CS					
7	#		Tow to service dept +25%	1	187.50	х		
8	*	Subl	Pre-repair scan +25%	1	275.00	<u>)</u> X m		
9	#		Tow Back from Service Dept +25%	1	187.50	Х		
10	#		Tow to service dept +25%	1	187.50	х		
11	*	Subl	In-proc repair scan +25%	1	<u>275.00</u>	<u>)</u> X m		
12	#		Tow Back from service dept +25%	1	187.50	х		
13	#		Tow to service dept +25%	1	187.50	х		
14	*	Subl	Post-repair scan +25%	1	<u>275.00</u>	<u>)</u> X m		
15	#		Tow back from service dept +25%	1	187.50	Х		
16	*	Subl	Calibrate backup camera +25%	1	300.00) X m	Not	needed. 167 requires no
17	*	Subl	Calibrate blind spot radar +25%	1	<u>300.00</u>	<u>)</u> X m		•
18	*	Subl	Calibrate occupant classification system +25%	1	<u>300.00</u>	<u>)</u> Xm	"Cal	libration"
19	*	Subl	Calibrate park distance sensor +25%	1	<u>300.00</u>	<u>)</u> X m		

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What Do You Think? Ethical or Not?

73		Popl	Such crossmomhar mount halt	0000001810	4	70.00	
74	FUEL SYSTEM	1					
75		R&I	R&I fuel tank			m	2.8 M
			Note: PREVENT SPARKS ENTERING GA	S TANK CAUSING EXPLO	DSION		
76	#		DRAIN AND STORE FUEL		1		2.0 M
77	#	Repl	FUEL 93 OCT		1	125.00	
			Note: WHEN STORING FUEL, IT WAS	CONTAMINATED WITH 8		NE FUEL.	
78	QUARTER PA						
79		Repl	RT Quarter panel	1676303403	1	3,250.00	25.5
80			Overlap Major Adj. Panel				
81	_		Deduct for Rear Bumper R&I				-1.2
82	#		Drill Rivet Holes		1		4.5
83	#	Subl	JIG RENTAL		1	600.00	
84	#		ORDER AND RECIEVE JIGS		1		2.0
85	#	Rpr	SET UP ON CELLETTE				8.0 F
86	#		SET UP RT RR SHOCK TOWER		1		2.0 F
			FIXTURES				
87	*	крг	KT Tail lamp panel				<u>0.5</u>
88		R&I	RT Pressure vent				0.1
89		Repl	RT Wheel opng mldg textured black	1678850400	1	236.00	0.5
90		Repl	LT Wheel opng mldg textured	1678850300	1	236.00	0.5
50		Kepi	black	10/0000000	1	230.00	0.5
91		R&I	RT Rear trim				0.1
92		Repl	RT Quarter glass Mercedes	1676708400	1	410.00	Incl.

WIS procedures does not call out R/I Fuel Tank Required. Can be protected from the fuel neck

Jig rental when shop is using camelon universal jigs with additional time to order and receive

3.9 -0.4

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Otr panel replacement does not require a fixture set up. Can be done without fixtures per WIS

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What Do You Think? Ethical or Not?

181	#	Corrosion Protection	1	10.00	0.2
182	#	Cavity Wax	1	47.00	0.2
183	#	Seam Sealer	1	180.00	0.8
184	#	Welder Set Up & Destructive Weld	1		4.0
185	#	Rivet Gun Set up	1		2.0
186	#	1k Zinc Dust 0009862800	1	149.00	0.3
187	#	Basic Body Filler 0129892971	1	/0.00	
188	#	Parts Kit Adhesive 0129891771	1	434.00	
189	#	Rivet y1 0009917632	10	30.00	
190	#	Divert v2.0040001607	10	45.00	
191	#	Store/ Wrap/ Organize parts cart and rental	1	5.00	3.0
192	#	Organize & Catalogue Fasters removed	1		1.5
193	#	Water / Air Leak Check	1		1.0

Is 4 + 2 Hrs reasonable for these two operations?

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Organize and Catalogue Fasteners

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Ethics in Collision Repair

- 1. Prioritizing customer safety: The safety of customers should always be the first consideration.
- 2. Providing quality repairs: Collision repair should restore the vehicle's structural integrity and repair any damage to the exterior and interior.
- 3. Using quality parts: Collision repair should use proven, high-quality parts from reputable firms.
- 4. Being honest and transparent: Collision repair should be honest and transparent with customers.
- 5. Avoiding unnecessary repairs: Collision repair should not recommend unnecessary repairs to increase the bill.
- 6. Providing warranties: Collision repair should provide warranties for repairs.
- 7. Adhering to regulations: Collision repair should adhere to safety and environmental regulations.
- 8. Educating customers: Collision repair should educate customers about testing, analysis, repair options, and the features and benefits of services.
- **9.** Advocating for the customer: Collision repair should advocate for the customer's best interest and ensure they receive the full entitlement of their claim.
- **10. Maintaining a clean and safe facility:** Collision repair should maintain facilities that are safe, clean, and employee- and customer-friendly

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Final Thoughts/Q&A

Thank You

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