## Vehicle Collision Experts (VECO Experts)



Your Partner in Collision Repair to Get it right the first time!



### Collision Repair 2019 and in to the Future

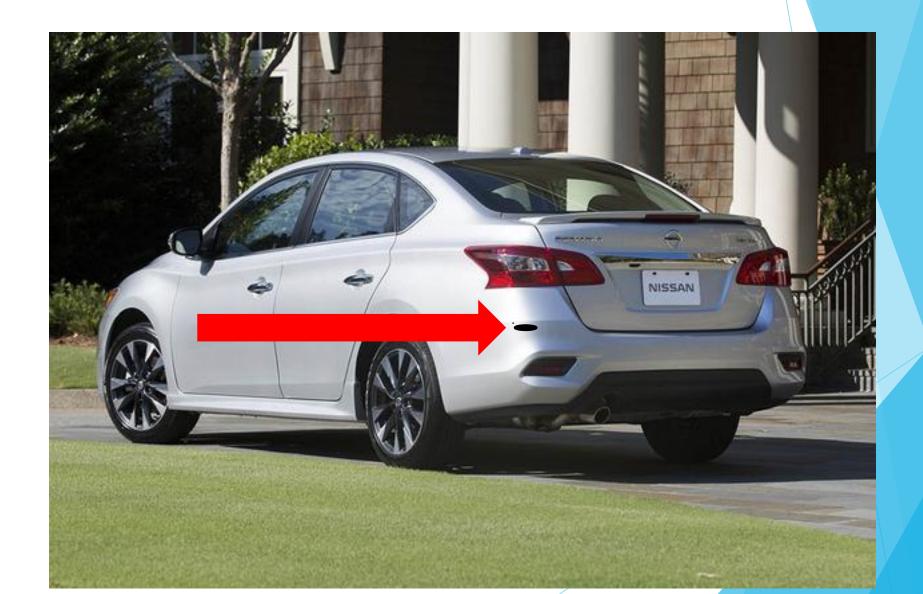
- Appraisals of the future
  - vehicle complexity, technical expertise
- Car of the future
  - active safety/passive safety
  - mixed materials
  - powertrain complexity
  - autonomy
- Crash of the future
  - frequency, personal injury, severity, liability
- Driver of the future
  - driver out of loop, skill level under manual driving, interaction with ADAS, liability
- Repair of the future
  - > severity, cost and time, ADAS repair and resetting, new and mixed materials handling of EV and Hydrogen etc

# 10 Steps for Quality Collision Repair



"Get it right the first time"

### Quick Check In



## Questions:

- How many of you think Collision Repair is getting harder (than it was 20 years ago?)
- How many of you support legislation for having OEM procedures be a law?

10/5/2019

## Thoughts:

### **1.Collision repair has NEVER been easier.** (It has changed and gotten easier)

2. Careful what you wish for in legislation.

10/5/2019

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### **Proper OEM Repairs - Required**

- 1. Safety items (Seat Belts Tests drives Airbags)
- 2. Weld Tests (often times many tests and different welders)

10/5/2019

- 3. Corrosion protection
- 4. ADAS resets
- 5. Electronic Resets
- 6. Battery disconnect
- 7. Bolt Torque
- 8. Scanning
- 9. OEM information and research
- 10. Pre measuring vehicle

### VECO Experts 10 Step Repair Process

- 1. Vehicle Scanning
- 2. Procedure at time of estimate
- 3. Procedures to technician (including sublet)
- 4. Procedures followed
- 5. Proper welds and attachment (Rivets, bonding etc)
- 6. Proper corrosion protection
- 7. Proper use of QC sheet
- 8. Proper refinish
- 9. Proper use of intake SOP
- 10. Proper vehicle protection



Would you agree that if you did all 10 of these steps on every vehicle, every time that the repair outcome would be highly predictable and very high quality?



## It is that simple! So why does it appear so hard to be predictable?



I used to say: "Quality is a process, not a final destination."

### I have changed that to be -"Culture and process is quality." (It takes a quality culture and a quality process to produce quality repairs)



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### 2 - OEM information at time of the estimate

- 1. Must pull on every job every time
- 2. Estimate must be written with OEM Data
- 3. Even bumper cover scratches will require OEM data (Many OEMs have limitations on bumper repairs Nissan, Audi, BMW, GM etc.
- 4. Must pull all information not just cut location Including electronic resets, glass replacement for sublet vendor special issues, steel content etc.



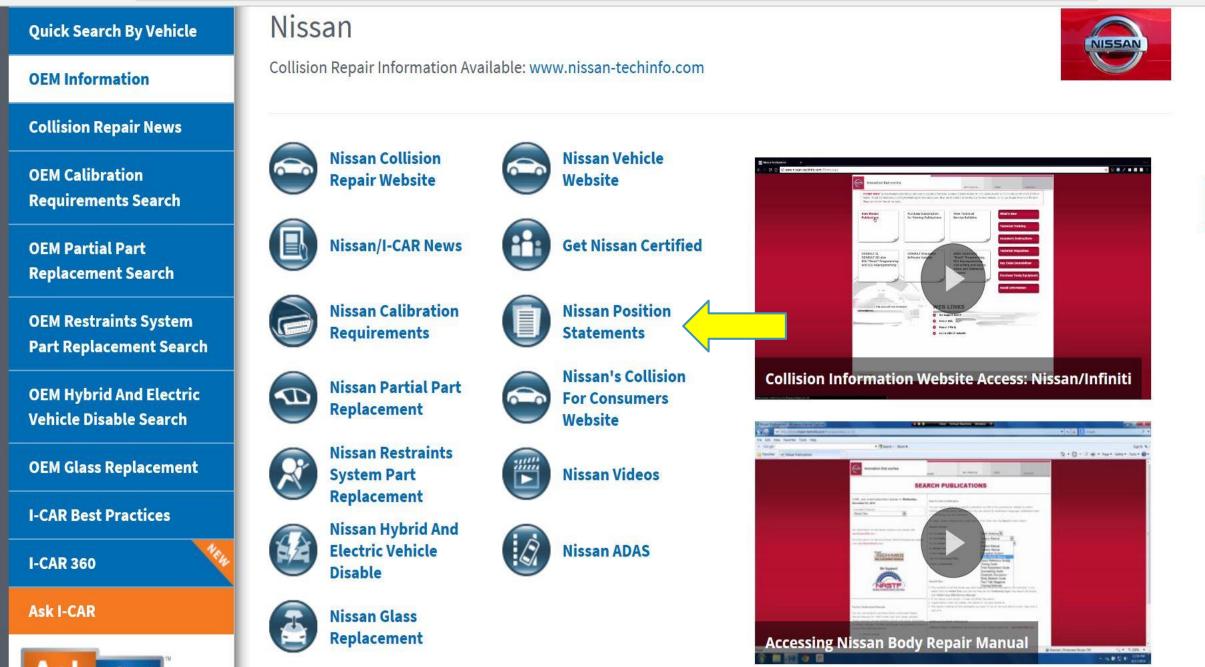
### **Getting OEM Information**

- 1. Always start with I-CAR RTS
- 2. Alldata, Mitchell and free sites are good for estimates but not always for repairs
- 3. Mitchell is very good for GM as they have a partnership where all new information is automatically updated with estimating system hopefully other OEMs will follow
- 4. OEM 1 Stop www.oem1stop.com
- 5. The OEM's information is the easiest to get because it has hyperlinks to other information and is also the latest information
- 6. Information costs money, and is money well spent to deliver on time, create expectations with customer and "get it right the first time!"



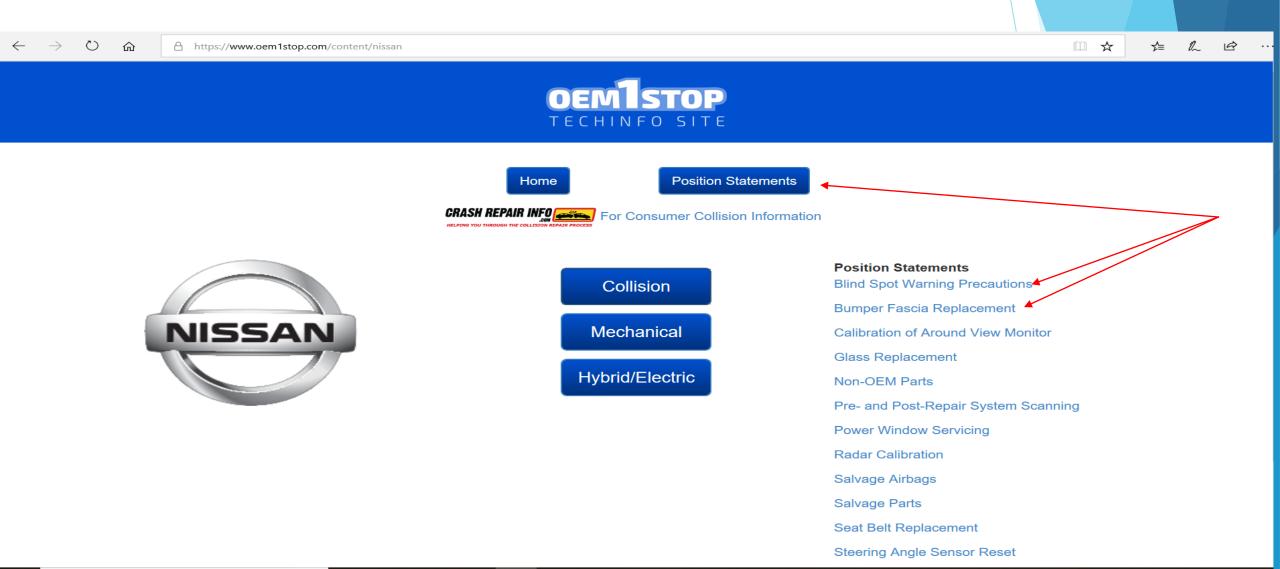
Scenario - 2017 Nissan Sentra comes to your shop with or without an insurance estimate (photo or otherwise) vehicle has scratches on the left rear side of the bumper cover. What is your call?





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### www.oem1stop.com



### Nissan clearly says, "no aftermarket and no repair"



N I S S A N Collision Position Statement-Bumper Fascia Replacement with Sonar Reference: NPSB-16-596 Date: June, 20 2016

TO: COLLISION REPAIR INDUSTRY

#### POSITION STATEMENT: Bumper Fascia Replacement with Sonar

FRANKLIN, TN- As Nissan Safety Shield Technologies are incorporated into more of our vehicles, we want to bring to your attention important information about how these systems function, and how to properly handle repairs regarding this technology.

Many electronic sonar sensors in front and rear bumper fascia are considered to be part of this Nissan Safety Shield Technology. These sensors are engineered to be in very exact positions within the bumper fascia, and if not properly installed, may not function as originally intended. For this reason, Nissan North America **DOES NOT** approve of the use of aftermarket, reconditioned, or recycled bumper fascia.

In contrast with original Genuine Nissan bumper fascia, aftermarket bumper fascia may:

- In some cases, non-OEM fascia come with no pre-drilled holes for the sensors, relying on the shop technician to cut the holes using a rough template. This may lead to instances where the non-OEM bumper does not match the original Genuine Nissan bumper holes.
- In some cases, build specifications are slightly different on aftermarket bumper fascia than on Genuine Nissan fascia, which may also cause issues with sensor alignment or performance.

In addition, reconditioned fascia, which was once damaged, may also be out of specification to the original undamaged Nissan bumper fascia, which may cause sensor alignment issues. There is currently no industry standard process for knowing the history/quality of recycled bumper fascia, so this is also not recommended to be used on Nissan vehicles. We ask that the general repair industry adhere to these recommendations.

For additional information, please see service manual section "SN".

#### Parts Warranty

Nissan North America's New Vehicle Limited Warranty, and Limited Warranty on replacement parts do not apply to any parts other than Genuine Nissan original equipment parts.

For additional collision information: http://collision.nissanusa.com.



#### N I S S A N Collision Position Statement-Blind Spot Warning (BSW) Precautions Reference: NPSB/16-725 Date: February 21, 2017

#### TO: COLLISION REPAIR INDUSTRY

#### **POSITION STATEMENT: Blind Spot Warning (BSW) Precautions**

FRANKLIN, TN- Nissan North America, Inc. (Nissan) continues to be very concerned with the proper repair of our vehicles after a collision situation, especially as it pertains to safety related systems. With this in mind, Nissan would like to address a very important component of our Safety Shield Technologies, called Blind Spot Warning (BSW), and one of the specific repair considerations that relates to this system.

BSW was introduced to some Nissan vehicles as early as 2011. On vehicles equipped with this technology, the side radars, which are responsible for triggering the BSW, sit behind the rear bumper cover at both corners. For this reason, in a rear end collision scenario, Nissan **DOES NOT** support any repair, body filler application, or paint work on the rear bumper cover in the general area of the side radars. Nissan's service manuals clearly state: "Do not attach a sticker (including transparent material), install an accessory or paint work near the side radar".

The damaged bumper cover should be instead replaced with a new bumper cover. In addition, since non-OEM bumper covers may vary in materials, build specifications, and fitment, and have not been tested by Nissan as far as compatibility with the BSW system, Nissan recommends replacing the bumper cover with a new Genuine Nissan bumper cover.

Failure to adhere to these guidelines may cause the BSW system to not function properly, potentially causing serious safety concerns for our owners.

Please reference service manual section "DAS" for additional detailed information.

#### Parts Warranty

Nissan North America's New Vehicle Limited Warranty, and Limited Warranty on replacement parts do not apply to any parts other than Genuine Nissan original equipment parts.

Nissan North America will not be responsible for any subsequent repair costs associated with a vehicle and/or part failure caused by the use of parts other than Genuine Nissan replacement parts.

For additional collision information: http://collision.nissanusa.com.

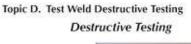
### 3- Information Given to the Person Doing the Repairs

- All information given to technician, sublet vendor or otherwise when they receive the job. (Recommend an SOP for documentation)

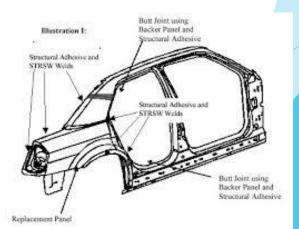
### 4- Information / Process Followed

- 1. It is hard to believe that repairs that have all the information present are still not done correctly
- 2. Technician has to read or understand what must be done
- 3. Weld counts, locations, type, product usage etc.
- 4. Not just OEM information all processes followed per SOP (plastic filler, weld tests etc.)
- 5. Must be verified with QC system









### 6- Proper Corrosion Protection

- 1. Weld through primer or not depending on the OEM
- 2. Never copper weld-through primer zinc Only
- 3. NO self-etching primer in body department (paint dept only)
- 4. Use of epoxy where appropriate (under urethane glass, under body filler (some OEMs) and under seam sealer
- 5. Seam sealer on parts (even new ones that did not come with it)
- 6. Seam seal all welded seams whether they were seam sealed or not from the factory
- 7. Cavity wax most shops need one can per week per technician



#### Hide Tree / Max Tree

Toyota 2012 - 2017 Camry Collision Repair Manua

E U Vehicle Exterior

- E SODY DIMENSIONS
- E SODY WELD POINT
- E SFOREWORD / CAUTION / SECTION
- - E SABOUT THIS VEHICLE
  - E SHOW TO USE THIS MANUAL
  - WHEN REMOVING, INSTALLING, REPAJ
  - WORK NOTICES AND PRECAUTIONS
    - WHEN REPAIRING THE VEHICLE I
    - PRECAUTIONS FOR REPAIRING B
    - PRECAUTIONS FOR WELDING; 20
    - ANTI-RUST TREATMENT AFTER IN
    - PRECAUTIONS FOR SRS AIRBAG S
    - NOTICE ABOUT VEHICLE CONDIT
  - PAINTING / COATING

panel seams and hems of the doors, hood, etc.

#### NOTICE:

Apply body sealer neatly to parts that require a high quality appearance.

#### 2. UNDERCOAT APPLICATION

#### PURPOSE:

To prevent corrosion and protect the body from gravel, always apply a sufficient undercoating to the areas indicated.

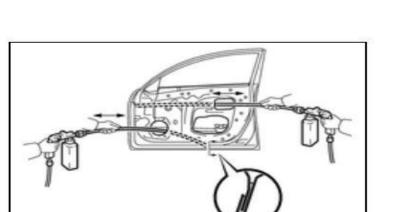
#### 3. VEHICLE BODY ANTI-RUST AGENT APPLICATION

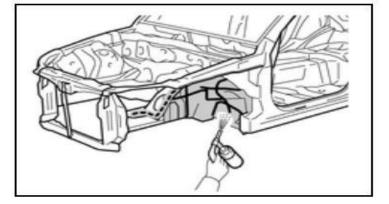
#### PURPOSE:

The purpose is to protect areas from rust which are difficult to paint such as the backside of the box-shaped cross section frame parts.

#### METHOD:

Apply anti-rust agent through the service







Collision Reference

Click here to see this page in full context

#### CRIB # 181 WELDING SPECIFICATIONS & SUBSTITUTIONS

#### FOR THE COLLISION REPAIR PROFESSIONAL

WELDING SPECIFICATIONS & SUBSTITUTIONS

MODELS:	ALL TOYOTA, LEXUS, and SCION
SECTION:	Body Component Replacement
DATE:	DECEMBER 2011

Welding specifications for body components are published in model-specific Collision Damage Repair Manuals for all Toyota, Lexus, and Scion vehicles. Welded component installation may require a combination of welding methods including:

- STRSW (Squeeze-Type Resistant Spot Welds)
- GMAW/MIG (Gas Metal Arc/Metal Inert Gas Welding)
- Arc Brazing (Brazing)

The STRSW method best replicates factory attachment methods, and when performed correctly, offers the following advantages over GMAW/MIG plug welding:

- Equipment is readily available in most markets
- Comparable to factory welding methods and appearance
- Does not produce ultra violet radiation
- Reduces heat effect zones and corrosive hot spots
- Reduces the emission of metal grinding particles when finishing
- Reduces the emission of stray sparks
- Reduces airborne contamination from burnt coatings

STRSW may be substituted for GMAW/MIG plug welds, however, STRSW substitutions should match factory weld size, strength and appearance.

Appearance alone does not validate the strength of a weld. Weld strength must be validated by tuning the welder and performing destructive testing. Tuning the welder and destructive tests must be performed on metal of the same thickness and composition as that of the component being replaced.

#### **COLLISION REPAIR INFORMATION**

#### FOR THE COLLISION REPAIR PROFESSIONAL

TITLE:	CORROSION PREVENTION	N FOR COLLISION REPAIR	
SECTION:	EXTERIOR	BULLETIN # 186	
MODELS:	ALL TOYOTA, LEXUS, and	SCION MODELS	
DATE:	SEPTEMBER 2013		PAGE 1 OF 2

#### **Corrosion Prevention for Collision Repair**

 Adherence to established Corrosion Prevention processes is very important during collision repairs. For example, insufficient application of corrosion preventative compounds (i.e. anti-chipping coatings, seam sealer, anti-rust agents, etc.) may contribute to the development of rust, reduction in vehicle value and other customer satisfaction concerns. In certain cases, the development and progression of rust may also affect vehicle operational components. This bulletin is intended to raise awareness and reduce the occurrence of corrosion resulting from collision repairs.

#### Bolt-On Component Replacement and Corrosion Prevention:

 Anti-Chipping Primer applied under top coats to the leading edge of hoods and fenders, Anti-Chipping PVC and Urethane coatings also applied under top coats to lower panel exposures, Seam Sealer applied to panel flange seams; and Anti-Rust Agent (Cavity Wax) applied to interior portions of hoods doors and hatches are all specified for bolt-on body components in model-specific Repair Manuals for Collision Damage.

#### Weld-On Component Replacement and Corrosion Prevention:

- Zinc-Rich Weld-Through Primer applied to the mating flanges of weld sites prior to welding is designed to coat bare metal at Squeeze-Type Resistant Spot Weld (STRSW) locations thereby reducing the potential of corrosive hot-spots (accelerated rusting) at the weld flanges.
- Gas Metal Arc/Metal Inert Gas (GMAW/MIG) Welding temperatures burn and vaporize Zinc-Rich Weld-Through Primer at plug and continuous weld locations and cause the granular structure of the steel to expand. These circumstances can lead to corrosive hot-spots if left untreated. Therefore, it is recommended to substitute factory-type STRSW for GMAW/MIG where applicable as outlined in CRIB #181 Welding Specifications and Substitutions.
- Frame Component Repair and Replacement does not require Zinc-Rich Weld-Through Primer however, does require cleaning of the Heat Affect Zone (HAZ) inside and out and application of corrosion prevention coatings after the repair or component replacement. Repaired and welded frame areas require application of a twocomponent DTM (Direct To Metal) or Epoxy Primer and single-stage topcoats to match the OE frame finish.

#### PLEASE ROUTE THIS BULLETIN TO YOUR COLLISION REPAIR CENTER MANAGER AND COLLISION REPAIR TECHNICIANS





00408-03000-186



When using weldthrough primers, keep in mind that zincbased primers are a more suitable material to use than copperbased primers.

Dedicated to Promoting Quality

Colliciou Repair of

Toyota Lexus and

Scion Vehicles

How Fight Rust

THE WINTER MONTHS CAN BE HARSH-PROPER CORROSION PROTECTION CAN HELP GUARD YOUR CLIENTS' VEHICLES. Winter brine-the mixture of magnesium and calcium chloride used on the roads in colder climates-can be particularly damaging and harsh on a vehicle. Even if you don't live in a cold climate, inadequate use of corrosion protection measures can contribute to the

suitable wax and grease remover.

development of rust. During collision repair, incorporating corrosion protection measures like using weld-through primer, epoxy primer, seam sealer and cavity wax is an important part of helping to protect against the elements and ensure the long life of the vehicle you are working on.

#### WELD-THROUGH PRIMER

Weld-through primers are an important corrosion protection measure. When using weldthrough primers, keep in mind that zinc-based primers are a more suitable material to use on Toyota, Lexus and Scion vehicles than copperbased primers. This is because these vehicles are manufactured using a zinc galvanizing process, and zinc primer bonds to the metal of the vehicles better. Zinc also seems more resistant to corrosion than other types of weld-through

primers, such as those made with copper. To properly use weld-through primer, thoroughly clean surfaces with a suitable wax and grease remover. Then, coat any bare metal areas that are going to be joined together but won't be accessible after welding with weldthrough primer.

DID YOU KNOW. To properly use weld-through primer, thoroughly clean surfaces with a

#### ADDITIONAL WELD-THROUGH PRIMER TIPS

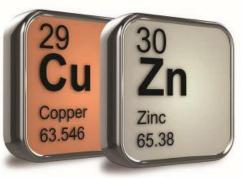
- . Ensure there is a thin, even coating of weld-through primer and that it is not clumpy or overly thick in some areas. · Allow the weld-through primer to completely dry before you begin the welding process. This gives the zinc the opportunity to properly bond to the material.
- · Some weld-through primers aren't solvent resistant and can be washed away during the cleaning process as the vehicle is prepped for primer and paint coatings. Test products beforehand to make sure they are compatible.

#### CORROSION PROTECTION TIPS

- Electro-deposition primer—also referred to as e-coat-is an excellent corrosion protection material and should be left intact whenever possible.
- + Vehicle-specific seam sealer specifications are given in the Repair Manuals for Collision Damage.
- + Clean the heat-affected zones around welds to remove burned or loose material and coat with epoxy primer and cavity wax if applicable.

For additional information about corrosion protection, see Collision Repair Information Bulletin (CRIB) #186, Corrosion Prevention for Collision Repair 🔿



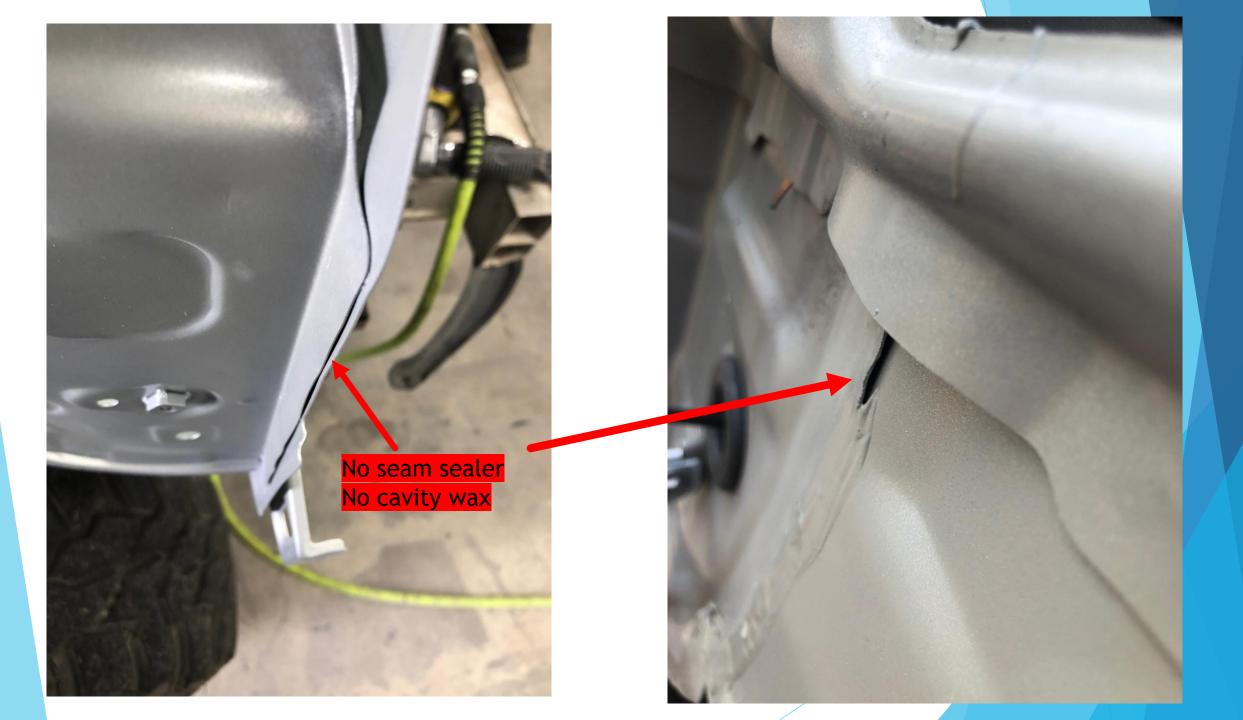


-Rust?-Copper weld-through primer?-No cavity wax?

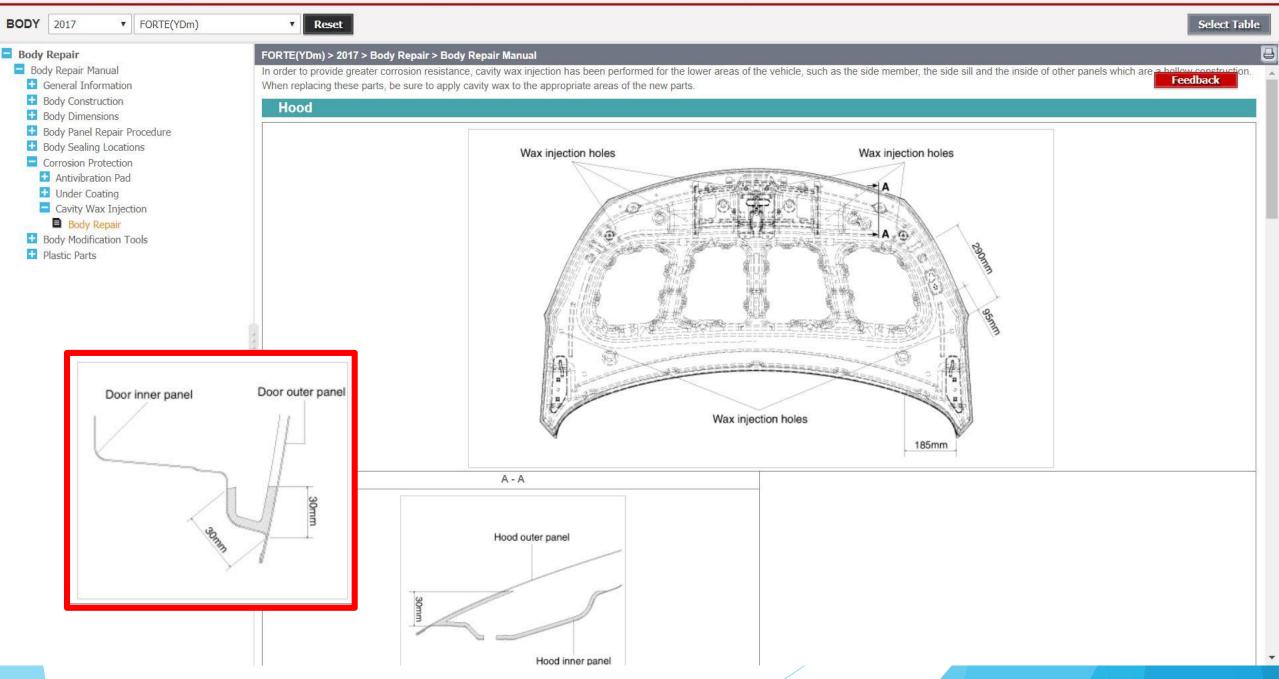








Kia Motors America, Inc. [US] | https://www.kiatechinfo.com/viewer/default\_pop.aspx?group=DTC&modelcd=YDM13&modelyr=2017&enginecd=137



### 8- Proper Refinish

- 1. As appropriate for repair
- 2. Color match, texture
- 3. Chip coatings
- 4. Under hood color / interior colors
- 5. Use of substrates epoxy under urethane set glass etc.
- 6. No acid or basecoat/clearcoat under urethane set glass



#### Hide Tree / Max Tree

PToyota 2012 - 2017 Camry Collision Repair Manua

- E W Vehicle Exterior
  - E SODY DIMENSIONS
  - E SODY WELD POINT
  - E FOREWORD / CAUTION / SECTION
  - E SINTRODUCTION
  - E 🔟 PAINTING / COATING
    - E DODY PANEL ANTI-CHIPPING PAINT
      - APPLICATION AREAS; 2012 201
    - E BODY PANEL ANTI-RUST AGENT MAT
    - E SODY PANEL SEALING
    - E Sody PANEL UNDERCOATING
    - E FORMED SEALING MATERIAL
    - 🗄 🎨 SILENCER SHEET

#### **APPLICATION AREAS**

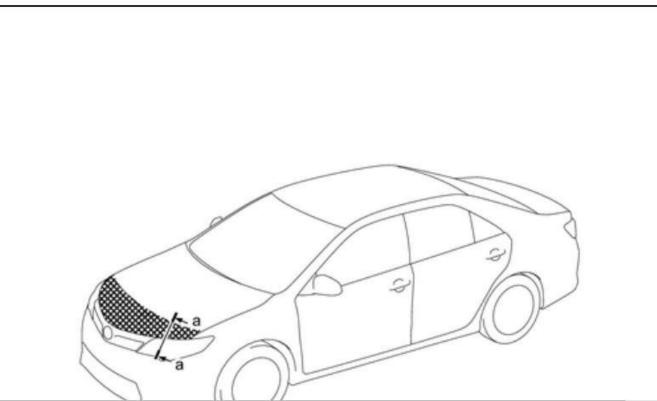
#### CAUTION:

Work must be performed while wearing the appropriate protective gear and in a well-ventilated area.

 To protect the body from damage due to gravel, apply the anti-chipping paint to the hood.

#### HINT:

- Apply anti-chipping paint to the indicated areas first, before applying the top c
- If anti-chipping paint is unnecessarily applied to an area, apply degreasing age to a clean cloth and clean the paint off immediately.



### VECO Experts 10 Step Repair Process

- 1- Vehicle Scanning
- 2- Procedure at time of estimate
- 3- Procedures to technician (including sublet)
- 4- Procedures followed
- 5- Proper welds and attachment (rivets, bonding etc.)
- 6- Proper corrosion protection
- 7- Proper use of QC sheet
- 8- Proper refinish
- 9- Proper use of intake SOP
- 10- Proper vehicle protection



### VECO Experts 10 Step <u>Repair Process</u>

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	Vehicle Collision Experts, L.L.C. Vehicle Inspection Form				
VECOExperts	Shop Name: Address: City, St, Zip: Phone #: Visit Date:				
_ F	Vehicle 1	Vehicle 2	Vehicle 3	Vehicle 4	
- YES		2014	2015	2009	
– NDI DONE – PARTIAL	Nissan	Toyota	Chevrolet	Pontiac	
	Altima	Prius	Malibu	G6	
Body Technician	Pedro	Domingo	Cruz	Angel	
Paint Technician		Christopher	Christopher	Christophe	
Estimator	Tammy	Tammy	Joel	Tammy	
Vehicle Stage	body	Body	body	paint	
Vehicle Scanned	n	n	У	n	
Procedure at time of estimate	n	n	v		
Stuctural procedures	n	n	У		
Procedures followed	n	n	Y		
Proper welding		Р	Ŷ		
Proper corrosion protection		р	р		
Proper use of QC sheet	р	р	р	р	
Proper refinish				γ	
Proper use of intake S.O.P.	р	р	р	р	
Proper vehicle protection	Y	Р	Р	Р	
Total Score for Vehicle	29	28	78	50	
Average Score for Shop	46				

32



## It is that simple!

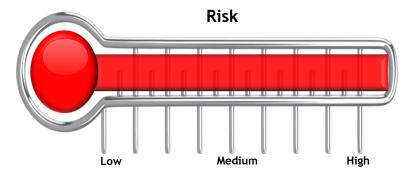
### "Culture and process is Quality"

(It takes a quality culture and a quality process to produce quality repairs)



### What We See (Big Rocks)

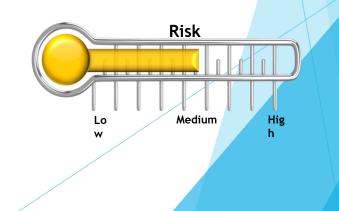
- 1. Not using QC Sheet/Process as designed
- 2. 200 amp welders not being used when appropriate
- 3. Not reviewing and following OEM procedures
- 4. Cavity wax not being used enough
- 5. Weld tests not being done prior to welding and being documented
- 6. Equipment not maintained or inoperable
- 7. Welder tips on STRSW not dressed and no new ones in shop

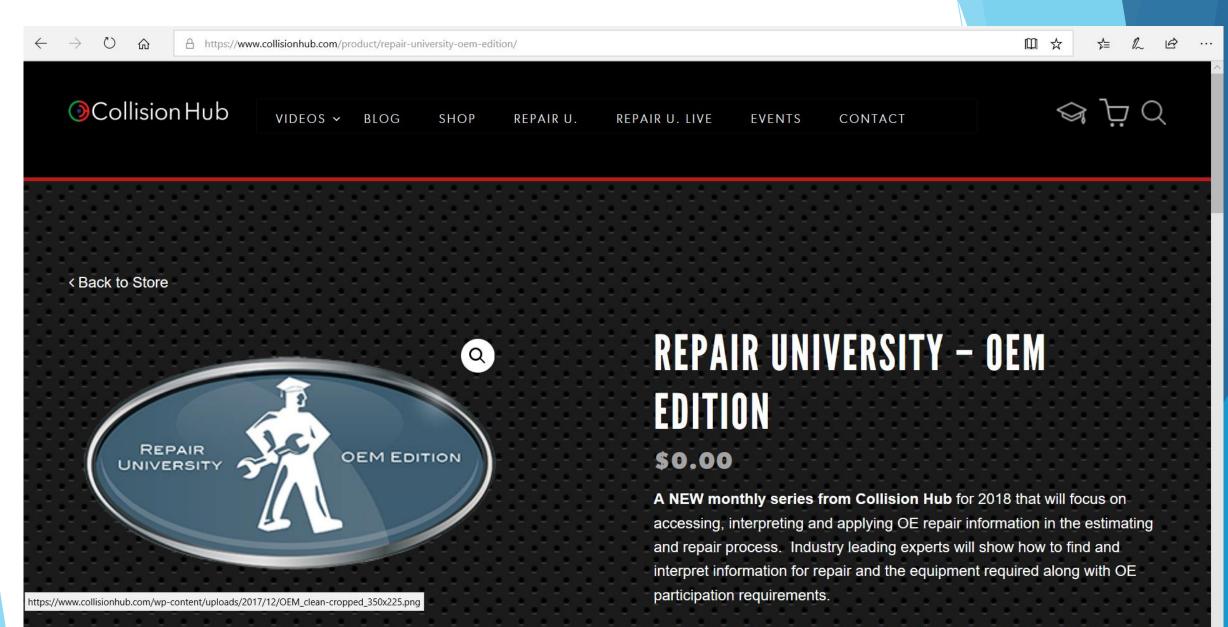


## What We See

#### (medium Rocks)

- 1. Check in sheets not being done fully (radio codes etc. and listed as done on QC)
- 2. Incomplete frame measurements
- 3. Copper WTP instead of Zinc
- 4. Epoxy paint not present or not being used correctly
- 5. Vehicle protection not complete (windows, lines, parts in car etc.)
- 6. Painting under urethane set glass
- 7. Self etch primer in body department
- 8. Electronic file not fully documented





Repair University LIVE OEM Edition will be your go to source for getting



## **Repair University LIVE**

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Click the button to get your season pass for 2018.

Subscribe Now

**2018 Programs** 

March – What's Wrong with Used Quarter Panels February – Structural Anchoring and Pulling Strates January – Steering Suspension and Wheel Damage

#### **Collision Hub Repair University Live**

 $\rightarrow$   $\circlearrowright$   $\Leftrightarrow$  https://www.youtube.com/watch?v=vYhY62IFBII



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#### Blueprinting 101



#### Blueprinting 101 From Repair University

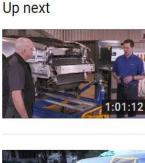
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Collision Hub Published on Apr 17, 2018

Special Offers From Mitchell on the products seen in this video



Q

Structural Anchoring And Pulling Strategies From I-CAR Collision Hub 6.2K views

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AUTOPLAY

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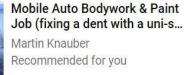
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1:20:19

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# Canary in the Coal Mine



Mark Olson 206-227-7574 "Get it right the first time"

## Canary in the coal mine:

- 1. Comeback rate comeback for anything
- 2. Internal comeback rate
- 3. Start stop rate average
- 4. Supplement number record
- 5. SOPs are they used
- 6. SOPs do they work
- 7. Gross profit / net / expense percentage
- 8. Days to repair (Keys to Keys)
- 9. Cycle time or touch time
- 10. Safety



## Canary in the coal mine:

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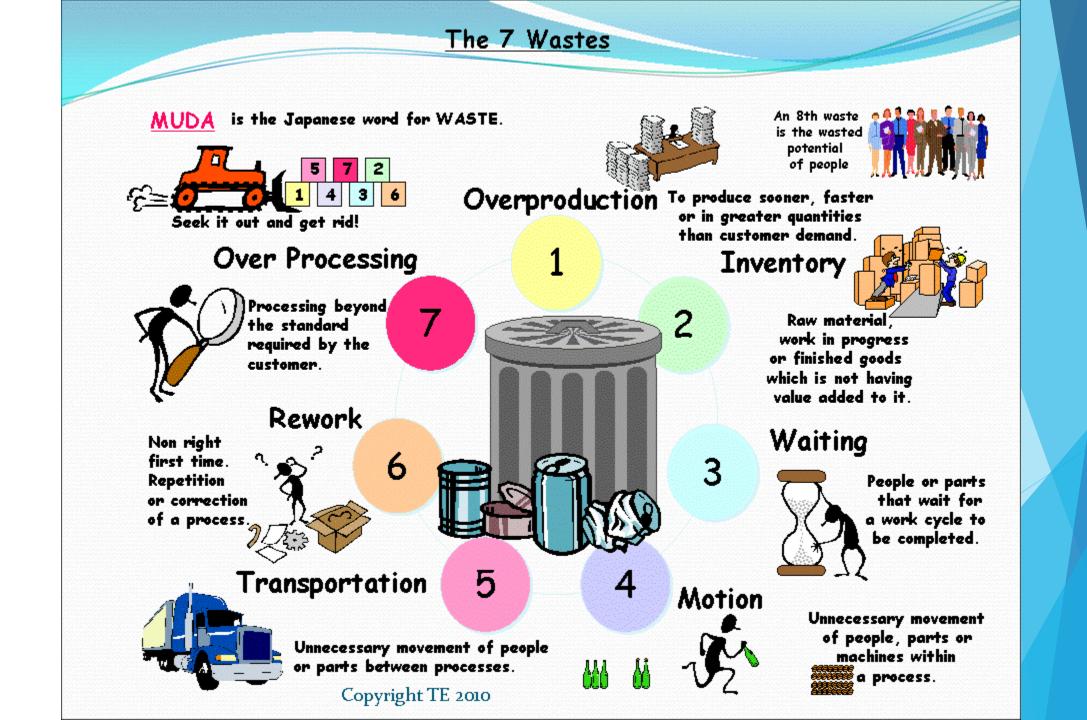
#### 3 Levels of Internal Comeback - Body to Paint

- 1. Soft: Painter just fixes it themselves. (materials and time) time lost at least 10-15 minutes
- 2. Medium: Painter goes and gets body technician. Time lost at least 20 minutes per technician + materials
- 3. Hard: Vehicle sent back to body dept. Time lost at least half hour and  $\frac{1}{2}$  day of cycle time + materials

- 200% efficient technician with a soft comeback will cost the shop \$25.00 per car in labor and about \$10.00 in material. Technician will lose ½ hour off paycheck.

- Research shows that 60-70% of vehicles have at least a soft comeback





#### Honda Ridgeline



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## The Bullet Proof File

Presented by Mark Olson





Your Partner in Collision Repair to Get it right the first time!

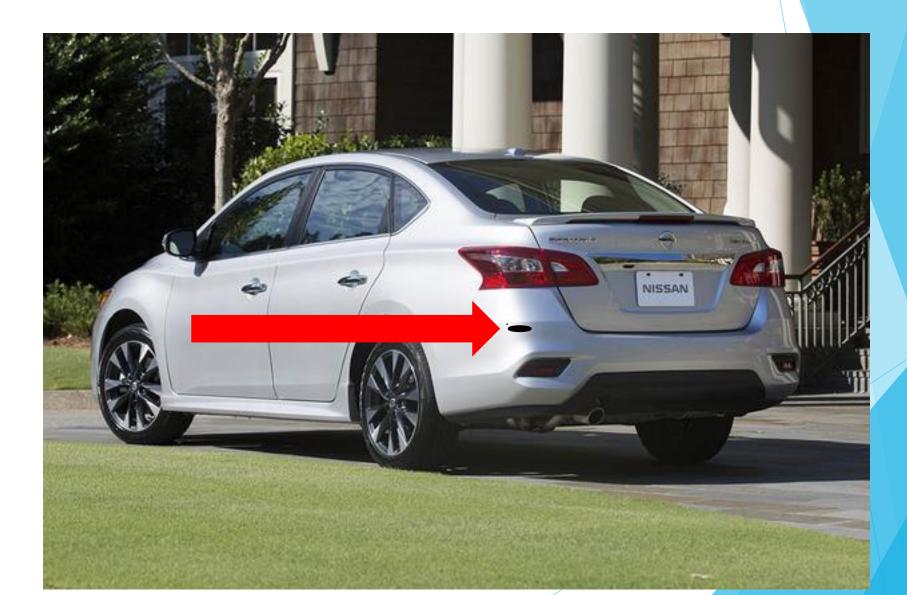
## You are going to get shot at. Can your shop withstand it? Are your files bullet proof?



10/5/2019

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## Remember this car?



#### Scenario - that will happen at some point

Imagine that you get that dreaded phone call/letter, get served or customer comes in that informing you there is an issue with a vehicle. Even worse, someone has been injured or killed. What you say and do next can have a big impact on your outcome.

1. Pull your file before you try an answer anything from memory.

Take detailed notes of the complaints that they have - and listen and take notes, there will be time for you to talk. If you are served, seek council. <u>Seeking council is good advice on anything major.</u>
 Get the issue to a person of power (one that can make the financial decision).

4. If you can resolve easily with re-repair - do so. Even if you think you are OK, most calls we get from shops that try to deny small things, cause customers to hire experts that will find things. When this happens, there is a 99% that buying the vehicle is the best option.



#### Forms - do you have them?



Conferences

EXPLORE OUR PROGRAMS Lean For Collision Business Courses



#### Market Your Shop

Market Your Shop

Proven Approach for Growing Your Business

In this rapidly changing world, new marketing technologies and the popularity of social media are impacting how consumers find and select whom they do business with. These technoligies are transforming the way customers access information and form opinions. Today's collision center can no longer rely solely on traditional marketing techniques. Staying competitive will require a reengineered sales and marketing strategy that takes advantage of the latest strategies, tools, and systems.

Tools & Services

Back Get More Details a Level Market Your Shop

Continue Explore Our Programs

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Welcome

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Administration Production Fundamentals of Estimating

Welcome

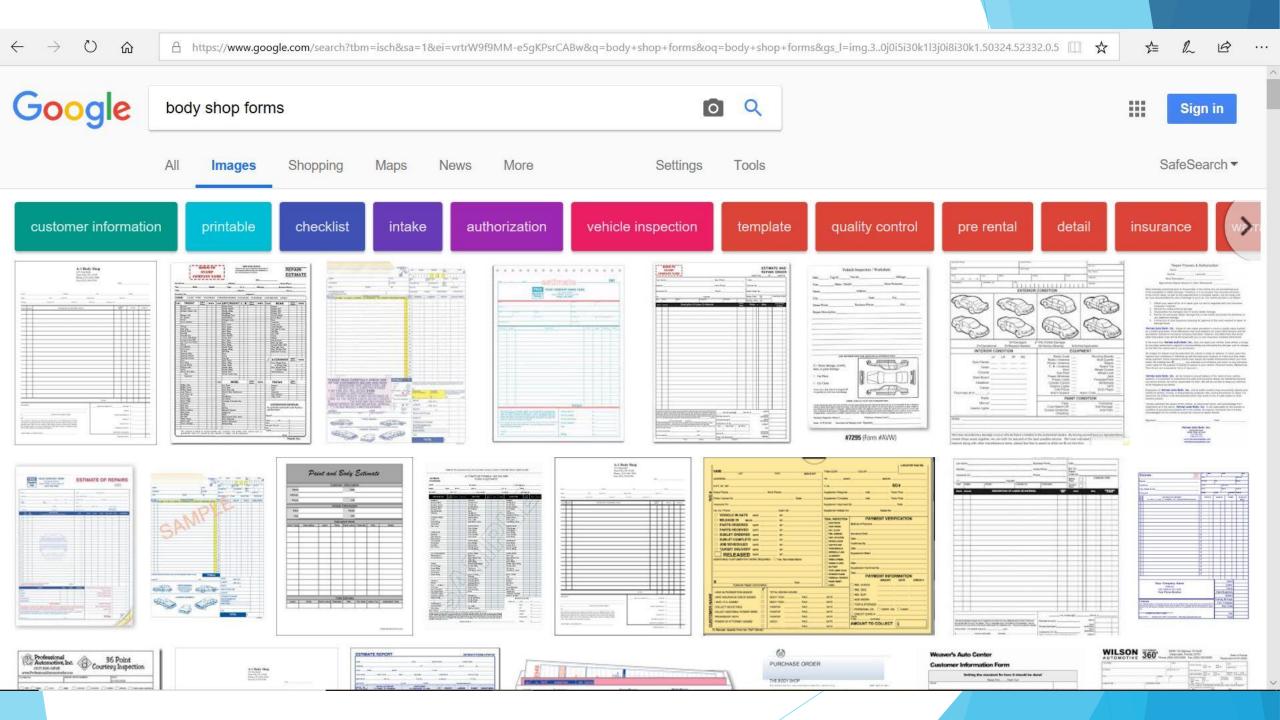
IFERENCES

Welcome Agenda Keynote Speakers Breakout Sessions Gala Dinner Entertainment ET YOUR SHOP

Welcome Continuing Education (CE) L Precision Marketing Report C Marketing Courses F

TOOLS & SERVICES

Welcome Layout & Design Consulting Services Rapid Improvement Workshops Resource Center



#### **Authorization Form**

- Customer is your client not insurance company
- May be part of check in form or stand alone
- Must comply with your state laws
- Are you scanning? May need release to scan
- May need release to share information with insurance co.
- Check state laws on signature (wet or phone authorization?).
- Is person who drops off car authorized to sign (kids spouse etc.)
- Contact about additionals.
- Vary from state to state

Copyright © 2019 by Vehicle Collision Experts

- Test drive waiver?
- Vehicle insurance or garage keepers

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garage keepers	
LLC, all Right reserved.	
	STORAGE CHARGES: for a period of 3 working vehicle has been compli- vehicle will be \$15.00.

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00000 US Highway 19 North

#### **Scanning Authorization Form Sample**

Pre and Post-Repair Diagnostic Scan Work Authorization Form

This diagnostic work authorization form grants [repair shop]permission to perform a pre and post-repair diagnostic scan on your vehicle as part of the repair process. By accepting this procedure, you acknowledge the terms and conditions listed below. If you choose to decline this procedure, you acknowledge the repair shop will not be held liable for problems with the vehicle that cannot be detected without proper diagnostic scans.

Definition:

Pre-Repair diagnostic scan - this is a complete health check of your vehicle and provides the repair shop (and insurance company, if applicable) a complete report on the number of computer modules on board, as well as any diagnostic trouble codes (DTC's) that could indicate pre-accident and/or accident related damage. This essential step eliminates unnecessary delays waiting for parts and/or additional insurance authorizations, and identifies issues with the vehicle that could be missed without a pre-repair diagnostic scan.

Post-Repair diagnostic scan - this step ensures that all systems on your vehicle are in proper working order prior to delivery. It is important to note that the majority of DTC's do not result in a malfunction indicator lamp (dashboard light). Failure to perform a post-repair scan by trained professionals with factory scan tools significantly increases the risk that your vehicle may be returned with malfunctioning, or inoperable, safety and convenience systems. A post-repair diagnostic scan is the single best way to ensure that your vehicle is returned to pre-incident condition. Data privacy:

In the process of performing a diagnostic scan, [repair shop] will collect important historical vehicle data, including in some cases, the date, time and mileage of when a DTC was created. This information is helpful in understanding if a problem is accident related or pre-existing. It is possible this information will be shared with your insurance company. Your acceptance of this procedure grants [repair shop] permission to share this information with others, including your insurance company. No personally identifiable information is collected during the pre or post-repair scan.

<sup>D</sup> Diagnosing vehicles has limitations. In some cases, modified vehicles may give false DTC's. [repair shop] and its employees cannot be responsible for omission or errors caused by the information provided, or not provided, by the customer. <sup>D</sup> All work performed by [repair shop] will be in accordance with Original Equipment Manufacturer(OEM) specifications and defaults. This includes, but is not limited to, any repairs, calibrations, integrations, programming and set points as indicated by the OEM by way of their designated sources of such information. [repair shop] is not responsible for any damage that results from, or to, aftermarket parts, or modifications from OEM factory specifications. <sup>D</sup> Variations between vehicles, according to the make model and trim level, may limit the information captured during a pre or post-repair diagnostic scan. <sup>D</sup> Depending on the condition of the vehicle, and the extent of the damage, and other factors outside the control of [repair center], a factory scan tool may not see every system on the vehicle being scanned. <sup>D</sup> [repair shop] is not responsible for any changes made to the vehicle after the vehicle leaves the shop.

While [repair shop] recommends a pre and post-repair scan on every vehicle, it is especially important to perform these functions on newer, highly optioned, heavily damaged vehicles. Failure to do so significantly increases the risk to the vehicle owner and occupants.

< Signature Page to Follow >

Yes \_\_\_\_ (initial) I accept having a pre and post-repair diagnostic scan performed on my vehicle, even if my insurance coverage does not pay for theseprocedures. In some instances, insurance coverage may not be determined until after the diagnostic scansareperformed.

No \_\_\_\_ (initial) I decline having a pre and post-repair diagnostic scan on my vehicle, though they were recommended by [repair shop] and the need for them was explained to me. I understand [repair shop]will not be held liable for any hidden damage that could not be detected during the repair process as a result of not having performed a pre-repair scan. I also understand certain systems may not function correctly, or at all, following the repair, and it would be impossible to detect issues with those systems without a post-repair diagnostic scan. I release [repair shop] from all liability for any pre-accident issues, hidden damage or post repair malfunctions that would have been discovered, had I consented to having pre and post-repair diagnostic scans performed.



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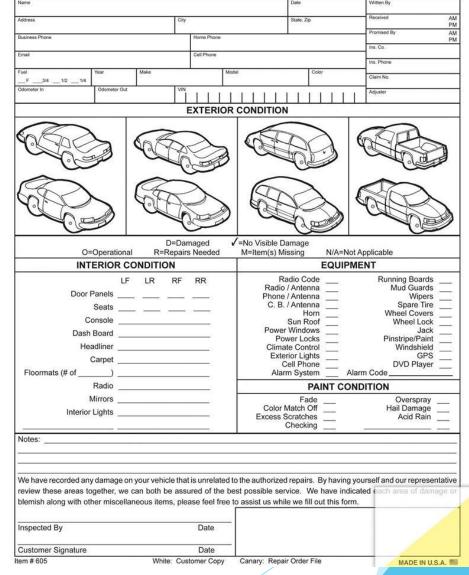
10/5/2019

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## Vehicle Check in Form (Intake)

Logo 123 Company Lane New Yor Tel. (123) 456-785		Truck		
Fax. (123) 456-78	Fax. (123) 456-7890			
		Trip R	16.	
Section A (Must be completed by the customer or releaser of the vel		(a)	S 84 12 1572	
Customer herein, requests the throker to make a mangement for the by thicker and custoffs to the terms an o	e transport of the following descried veh ontain a resonant Flaved, those terms a	icle formOrigie to Destina nd conditions Taves here in	tion with a carrier selected	
Consignor:	Consignor			
Address	Address			
City, State, Zip Tel. (Home)	City, State, Zip			
客 / Tel. (Home)	Tel. (Home)			
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Section B	i dian		th, caph to 's claush, or managy and to a	
Car SUV Van				
Vear; Make; Model:	Color:	VIN:		
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			BR - BROKEN C - CUT CR - CRACKED D - DENTED F + FADED	
During transport, vehicles and vehicle equipment may cross for damage directly caused by the diver, the transporter W any luggage left in the cas. Lagree with the Driver's assessment of the condition of this is agree with the terms and conditions on the back of this page that may be the diver of the condition of the set	ILL NOT be responsible for damag vehicelInitial geInitial	e NOT caused by Drive	BR.         IBONEN           C.         CUT           CR.         CRACKED           D.         DENTED           F.         FADED           F.         FORES MELLID           G.         GOUGED           L.         LOOSE           M.         MISSING           P.         PITED           P.         RUL MAST           S.         SCARCHED           S.         SCARCHED           S.         SCARCHED           T.         TORN	
for damage directly caused by the driver, the transporter WI any luggage left in the car. I agree with the Driver's assessment of the condition of this of	ILL NOT be responsible for damage vehicelInitial geInitial Initial The Cutor The Cutor The Cutor The Cutorer/C previously been hereby releases	e NOT caused by Drive OMER'S SIG NATURE mignee hereby actions well this Vehicle in th delivered to transporte herebister and Transport	BR.         IBONEN           C.         CUT           CR.         CRACKED           D.         DENTED           F.         FADED           F.         FORES MELLID           G.         GOUGED           L.         LOOSE           M.         MISSING           P.         PITED           P.         RUL MAST           S.         SCARCHED           S.         SCARCHED           S.         SCARCHED           T.         TORN	

#### VEHICLE CHECK IN REPORT



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#### Adjuster/Customer/Inspector Sign in

1. All adjusters/customers/inspectors need to sign in with a form that is a legal release of liability for injury, video recording, photographic recording and audio recording.

2. Name, company, representing, vehicle, time in, time out.

3. All must comply with Personal Protection Equipment (Respirators, dust masks, eye protection, skin and hearing)



10/5/2019

#### **Running Log of notes**

- 1- All conversations with customer
- 2- All conversation with adjusters
- 3- All conversations with parts vendors etc.

Can be done in a log fashion with management system for can be done in a simple word format then saved to electronic file.

Each entry must include date and time, and preferably the person making the entry.



#### Internal notes

- All communications should be electronic or in writing
- All supplemental requests from tech to office
- All responses to tech on supplement (approved / not approved) supplement form is fine
- Parts arrival and backorder notes
- Anything written needs to be in the file



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#### <u>Photos</u>

**Minimum Stages** 

- 1. Intake photo entire car and interior
- 2. Photos of vehicle damage
- 3. After teardown and supplemental damage
- 4. Measuring system on vehicle
- 5. Measurements Initial and after each pull (of screen)
- 6. Hook ups
- 7. Test welds and destructive testing with RO number
- 8. Section and cut locations
- 9. Welding done and ready for paint before primer
- 10. In paint before primer
- 11. In paint with primer masked before refinish
- 12. Initial spray out panel and all tints that were sprayed out with RO number
- 13. Painted before unmasked

14. Back in body

15. Final vehicle complete ready for delivery (entire vehicle)



#### Tools and documentation aids







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## **104 Roof Welds Missing**





Arrows Mark <u>Welded</u> Roof Points On Original Honda Fit Arrows Mark Glued Roof Separation On Accident Vehicle

#### **OEM Information**

- Must be actual OEM information, not from supplier or general
- Can be Mitchell, Alldata, C1 and OEM is best for repair
- Must be pulled at time of estimate and estimate written with information
- Must include all operations not just cut areas (resets, checks etc...)
- Signed off and reviewed as appropriate (Manager / Production manager / Etc.)
- Photograph put in file or scanned with signatures after job completion
- Must be followed and verified



## **Product Documentation**

- Anything specified by the OEM should be documented (photograph)
- Urethanes for windshields have expiration dates
- Adhesives have expiration dates
- Put a copy of paint mixing label in file (scan or photograph) •









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## Quality Control Forms /Systems

- 1. Do not make too complicated (keep it simple)
- 2. Can be Stage check
- 3. Can be peer review
- 4. We recommend doing by stage or grouping
- 5. Many variations to the process, have to customize for your shop.

## Biggest issue is not using system as designed, and the form is pencil whipped



## Handwriting Check

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### **Repair Documentation**

By leveraging the Assured Performance Repair Documentation System you CAN:

- Ensure technicians are in fact following OEM Repair Procedures through photos and documentation providing proof of compliance
- Confirm technicians are pre-scanning and post scanning every vehicle with the ability to store valuable diagnostics
- Audit submissions by repair, line item, or labor category and approve or reassign based on the results
- Document and Print a data driven Certificate of Authenticity for technicians that used OEM Repair Procedures on 100% of the applicable line items during the repair

SSURED PERFORMANCE"

#### 

Alerts, analysis graphs, charts and reports are automatically generated to help management integrate and have prominently displayed to help drive total quality assurance throughout the Certified business.

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#### TECHNICIANS USE THE SMART APP

- The technician finds their list of "jobs" waiting inside of their Smart App.
- The technician selects the "job" and follows a process of tap, tap, tap on their Smart Device to document how they repaired the vehicle and the OEM Repair Procedure they followed. Taking electronic images is as easy as taking a "selfie" or any pic!

#### **Repair Documentation**

QUALITY CONTROL CHECKLIST SUMMAR	Y	Checklist Completed:	52 /
BODY / STRUCTURAL / MECHANICAL		Checklist Completed:	13 / 1
PAINT / REFINISH		Checklist Completed:	13 / 1
BUILDUP/REASSEMBLY		Checklist Completed:	11 / 1
DETAIL/FINAL INSPECTION		Checklist Completed:	<b>15 /</b> 3
All Workorder Lines Completed	Test Paint	July 18, 2017 10:57:48	
No Visible Dirt Nibs or Tape Lines	Test Paint	July 18, 2017 10:57:48	
Interior Lamps Operational	Test Paint	July 18, 2017 10:57:48	
Vents Free of Dust & Glass	Test Paint	July 18, 2017 10:57:48	
Seatbelts Operational	Test Paint	July 18, 2017 10:57:48	
REVIEW- ummary to expand detail PPORTING DOCUMENTATION SUMMARY Photos and Supporting Documentation:	R.O. # 64532 Techs: 3 Photos Uploaded: 6 Documents Uploaded	10:57:48 10:57:48 10:57:48 10:57:48 10:57:48 10:57:48	
		10:57:48	
/IN Photo:	Supporting Documents	10:57:48	
Click thumbna		10:57:48	
Pre-Repair Photos: expand or ren	Post-Repair Photos:	10:57:48	
image		BODY CATEGORY	SUMMAR
Diagnostic	Was a diagnostic post scan performed?		
Was a diagnostic pre-scan performed?		Line Description	Operatio
Was a diagnostic pre-scan performed? Tech: Haywood Answer: YES informatio	Tech: Jablome Answer: YES		
Was a diagnostic pre-scan performed?	Field: Jackime Answer: YES		Remove/Rep
Was a diagnostic pre-scan performed? informatio	Repair Procedure Used: OEM: 10/10 None Available: 0 Other: 00/10 None Applicable: 0	R Fender Panel	Remove/Rep

JRED PERFORMANCE"

*ERTIFIED* 

#### **Review Details Include**

- ✓ Technician Documentation
- ✓ Additional Documents
   Uploaded
- ✓ Quality Control Checklist
- ✓ Ability to Review & Approve
- ✓ Ability to Reject or Reassign
- ✓ Technician Fingerprint
- ✓ Activity Timestamp
- ✓ Category Summary
- ✓ Repair Procedure Summaries
- ✓ Line Item Photos/Notes
- ✓ Line Item Reassignment

BODY CATEGORY	SUMMARY	Category Photos: Category Notes:	Repair Procedure OEM: Used: Other:				vailable: plicable:	0 0
Line Description	Operation	Procedure Used	Single Use Parts	Line Indicator	Photos	Notes	Technician	
Hood Panel	Remove/Replace	OEM	No	Estimate	Ó	Ð	Test Body	Reassign
R Fender Panel	Remove/Replace	OEM	No	Supplement 2	Ö		Test Body	Reassign

#### **VECO Experts 10 Step Repair Process**

- 1. Vehicle Scanning
- 2. Procedure at time of estimate
- 3. Structural procedures
- 4. Procedures followed
- 5. Proper welds
- 6. Proper corrosion protection
- 7. Proper use of QC sheet
- 8. Proper refinish
- 9. Proper use of intake SOP
- 10. Proper vehicle protection



## **Discounts and Documentation**

No matter how you fixed the car, it must be documented that way. If you use a price matching program, the final repair order that the customer receives and that you have in your final file must say it is OEM. If there are customary charges that you charge customers, and choose to not charge it for what ever reason, simply put in a zero or n/c or something indicating you did it and did not charge for it. This goes for ALL not included items such as test drives, seat belt and safety checks, vehicle washing etc.



#### **Estimates and Repair Orders**

- All lines on estimate reflect repair done to car
- Lines may be information only
- Lines may be listed and zero charge or listed as no charge
- If it is not listed then it did not happen (test drives, re torque, seat belt inspection, other required diagnostics)

The only difference between two repairs is what you choose to do for free - there is only one way to repair a vehicle. Rex Dunn



## The Ultimate Goal

Imagine that something did go wrong with the repair and they called in someone like me, Mike Anderson, Kristen Felder or Larry Montanez. The first thing we would ask for is your file. AND, your file is all we should need to know everything that took place on that vehicle. Your file is your best defense in any legal situation. If your file is not complete, or has been pencil whipped, you will likely lose in a legal battle. This could cost you a lot of money, your business, your assets and at a minimum your mental health.



## Data Storage

- Do <u>not</u> use estimating systems as your only source to keep files.
- You must have separate storage for data that is yours and yours alone, not a 3<sup>rd</sup> party.
- If you change management systems or estimating systems, you may not have access to your data.
- If you sell your shop, most sales are asset sales, and you are responsible for all repairs done in the past. If you do not have access to the file, the car will be the only evidence.
- Some companies provide storage as part of the benefits of the program (Assured Performance Network).



#### <u>3rd Party Agreements and Your Garage Keepers</u> Insurance

- Every time you sign a 3<sup>rd</sup> party agreement, have your insurance company review the contract that you are signing. You may be signing a contract that your insurance company will not cover. Also a good idea to run any contract by your attorney.
- Since you are attending this presentation you can have your insurance needs looked at by an industry professional that understands the unique needs of the collision repair industry shops. David Willet of Intrepid Insurance.



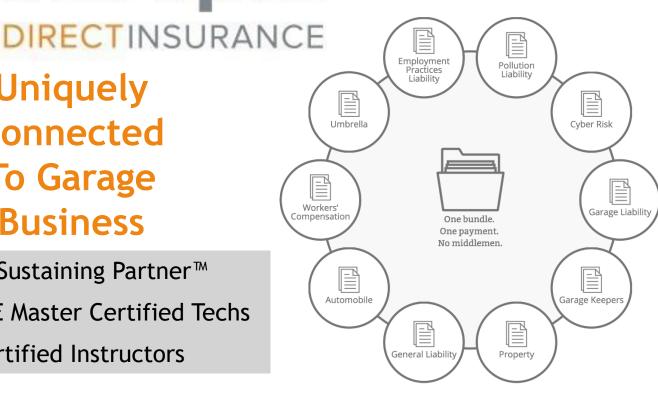
intrepid

Uniquely Connected To Garage **Business** 

an I-CAR<sup>®</sup> Sustaining Partner<sup>™</sup> employ ASE Master Certified Techs and TIA Certified Instructors

I-CAP

SUSTAINING



David B Willett CPCU, ALCM, CYB **GM** Automotive Industry Mobile: 816-266-0479 CA Agency License # OK95913 CA Producer License # 0121913 dwillett@intrepiddirect.com

www.intrepiddirect.com/auto-repair-garages/

- Factory Direct Saves You Money and Time.
- Comprehensive Coverages
- Garage Claims Experience
- We insure Customer Loaners, Towing, Rentals, Dealer Plates and more.





#### **Basic File Elements to Have Documented.**

- All communications internal and external
- All repairs documented following OEM photos and documents
- Quality control forms, intake, pre-delivery & authorizations fully signed
- All blanks on forms filled out or N/A on them
- A check list of all file items to do a final quality check of file before closing file for storage
- All photos taken of all stages



- 1. Mapping of the cars in your market
- 2. Work with PPG Rep on MVP Courses
- 3. Work with PPG Rep on best practices

PPG Representatives are a wealth of knowledge and information. If you simply ask them, they will help you. Nobody knows your market and shop profiles like your PPG Representatives.

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## Thank You!



Mark Olson 206-227-7574 "Get it right the first time"



Display="block">ControlWe protect and<br/>beautify the world™

## **OEM** Certification

Jennifer Jarzembowski National Business Development Manager OEM After Sales





#### VECO Experts is rooted in the highest ethical standards and committed to ensuring each vehicle is repaired to OEM specifications to ensure fit, finish, durability, value, and consumer safety. Your partner in Collision Repair!

#### What we do ...

We are in shops all across the country, every month, providing on-site assessments, as well as repair inspections to ensure manufacture's process and materials are followed. The sole focus of the company is to partner with shops and other industry providers, for the ultimate benefit of the shop. VECO Experts also conducts in-shop technical training lessons for shop personnel, distributes monthly quality and equipment reports, and provides regular technical support.

#### How it works ...

VECO Experts works with shops on quality, process, and culture, taking a holistic approach to identify and solve a shop's weak spot(s), one at a time. Shops that are struggling in certain areas gain control and elevate their operations, resulting in reduced cycle time, increased quality, and increased profits.

The process starts with an interview with the owner/manager using the "canary in the coalmine" philosophy to discover the weak spots in the operations. Then, a date is set to Kick-off the shop. The Kick-off consists of getting the staff together to get them all on the same page of the program. During the Kick-off, quality, equipment and operations are assessed to determine any gaps and we'll create a roadmap for the future of how to close the gaps. Each month, you will be visited by one of our technical partners to work with your staff on progress and new items that come up. You will also have an account manager that will call the owner/manager every month to work on the progress of items being worked on.

Services included are:

- ✓ Monthly on-site visit with your Expert Technical Partner
- ✓ On-site and remote inspections / assessment of repairs and the manufactures recommended processes.
- ✓ Technical in-shop training lessons as appropriate equipping shop personnel with the most up-to-date information on repair specifications and techniques
- ✓ Easy to read, in 3 minutes or less, monthly Shop Report at a Glance ™
- ✓ Monthly Vehicle and Process Quality Report and Equipment Report
- Monthly call with account manager to review and evaluate operations
- ✓ Facebook page with up to the minute, important new technical information
- ✓ Second level Technical Support
- ✓ Local Seminars
- ✓ Access to Collision Hub University
- Discounts with vendors and programs
- ✓ Featured on our 'Shop Locator' on our website
- ✓ OEM Certification matching and recommendations

#### Why our customers say we are invaluable ...

With all the changes in the industry happening so quickly, everything from materials being used to changes in procedures to follow for correct repairs; it is hard to keep up with it all. Having a third party come look at the repairs in process and look for 'training' opportunities is invaluable not to mention working on process' to increase quality and profits.

#### Who we are ...

Vehicle Collision Experts, LLC (VECO Experts) was launched at SEMA in Nov 2016 by Mark Olson, the original co-founder of VeriFacts Automotive. With over 36 years of experience, Mark was a former tech, shop owner, insurance adjuster, I-car instructor and is also president of Future Forensics, an automotive damage investigations company he founded in 1997. The staff have similar qualifications, training and credentials.



Vehicle Collision Experts LLC

#### **Bullet Proof File**

- 1. Intake photos taken at the time of first contact (first time car comes on lot)
- 2. Intake form when vehicle dropped off with photos and signed by customer
- 3. Log of all notes, texts, emails and communications
- 4. Log of all internal notes parts ordering, adjuster communications, supplements
- 5. Signed authorization test drive, scanning, information, costs
- 6. Photos damage, damaged parts, repairs, spray out panels, each department, welds, weld tests anything else.
- 7. Invoices
- 8. Quality control sheet filled out properly
- 9. Final quality control signed by customer
- 10. All estimates and estimate changes
- 11. All supplement sheets
- 12. All things used for the repair OEM information, glass urethane expiration dates, electronic reset and pre-scans



Vehicle Collision Experts, LLC Get it right the first time!

#### **10 Step Vehicle Quality Process**

- 1. Vehicle pre-scan and diagnostics
- 2. Proper vehicle check in
- 3. Review procedures at time of estimate (not just sectioning)
- 4. Structural procedures provided to technician during final repair plan meeting
- 5. Procedures followed, and verified
- 6. Proper welds, and verified
- 7. Proper corrosion protection, and verified
- 8. Proper use of QC sheet, in each process, as designed
- 9. Proper refinish, and verified
- 10. Proper vehicle protection (lines, electronics, interior, etc.)

#### What we see in most shops we go into the first time:

1- Not using QC sheet/process as designed

- 2-200 amp welders not being used when appropriate per OEM (look at machine for rated amp output)
- 3- Not reviewing OEM procedures and following (more than just sectioning calibration, scanning, etc.)

4- Cavity Wax not being used enough (each high production tech needs about a can a week)

- 5- Weld tests not being done prior to welding, and documented
- 6- Equipment not maintained or inoperable (look for dust on equipment)
- 7- Welder tips on STRSW not dressed and no new in shop
- 8- Check in sheets not being done fully (radio codes, etc. and listed as done on QC)
- 9- Incomplete frame measurements (3 section principle)

1- Copper WTP instead of Zinc. Zinc only on appropriate vehicle (none on Honda MAG or FCA)

- 2- Epoxy primer not present or being used correctly (check mixing bank for 2k epoxy)
- 3- Vehicle protection not complete (windows, lines, parts in car, etc.)
- 4- Painting under urethane set glass no basecoat, clear coat epoxy only
- 5- Self etch primer in body department (not for use in body dept. Paint dept. only)

6- Electronic file not fully documented (following the QC process - fully documented)

#### Identify the gap:

- Walk through the shop and look open interiors etc.
- Look at QC sheets for stage of proper completeness.
- Look for Repair procedures and compare dates.
- Look at welder tips on STRSW and also upper tray to see if they have backup.
- Look at closed file for in process photos, 8 point 3 section measurements, completely filled out check in sheets and QC sheets.

## The only difference between two repairs is what you decide to do for free. There is only one way to fix a Vehicle. – Rex Dunn



