

LEVEL 1



RESTORING THE RHYTHM OF YOUR LIFE*



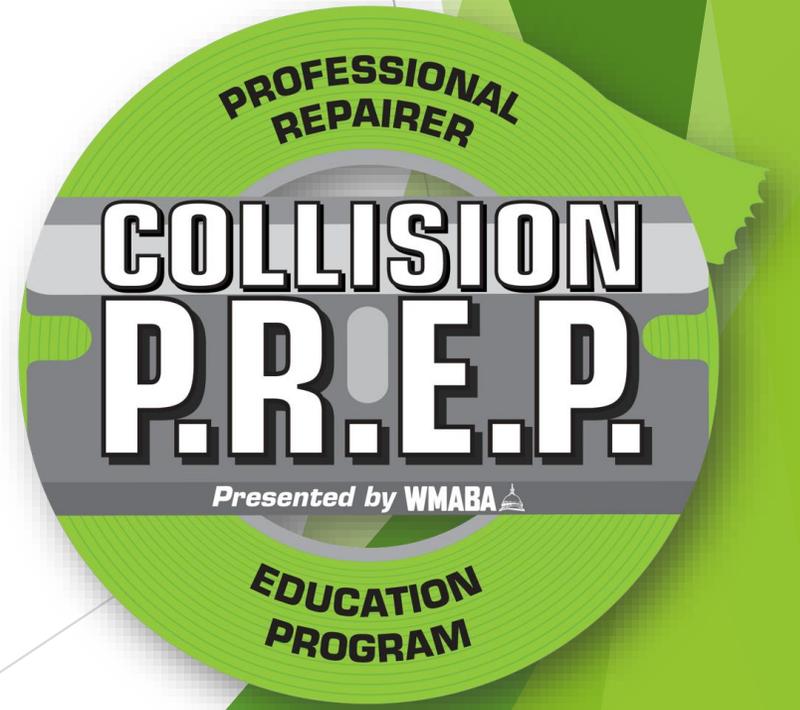
Chesapeake Automotive Equipment

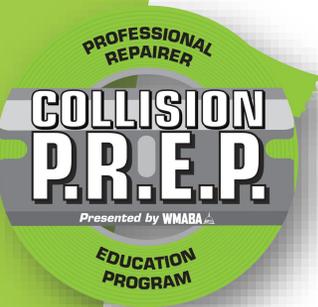
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LEVEL 2

Certified Automotive Parts Association
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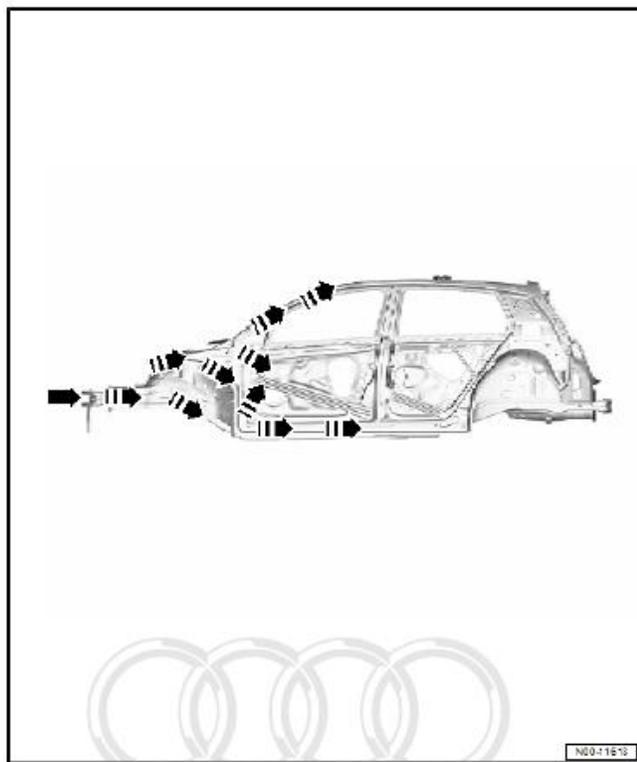


Repairer to Repairer: Realities of Structural Repair and Tooling

Presented by: K. Michael Bradshaw

Why are proper structural repairs vital to occupant safety?

- ▶ The goal of modern vehicle design is to absorb and direct crash energy along load paths and away from the occupant cabin.
- ▶ Inadequate or improper repairs can effect how these load paths transfer energy in a subsequent collision.
- ▶ It is vital that the modern day collision repair center restores the vehicle in a manner that maintains the safety features engineered by the vehicle manufacturer.
- ▶ Modern day structural repair requires advanced tooling & equipment, training, research, and understanding of advanced repair materials and techniques.



The goal of the body design is for the front of the vehicle body to absorb as much of the energy as possible.

If there is heavy damage to the front of the vehicle structure, the A-pillar transition area to the roof frame or sill must also be closely inspected during the damage evaluation.

Due to the structure, the entire outer shell should also be inspected, since elastic deformations in the high-rigidity structure may cause plastic deformations in the outer shell.

erWin

Identifying structural components and operations

- ▶ Replacement or repair of any components that are attached using Welding, Weld-Bonding and/or Rivet-Bonding. Structural components can also include some bolt-on components and glass.
- ▶ Structural operations in both repair and replacement situations would require the use of a universal frame bench or dedicated bench in most all cases.
- ▶ The latest Motor Guide to Estimating lists the following components as structural parts or parts that add structural integrity to a vehicles body.
 - ▶ • APRONS/STRUT TOWER • CENTER PILLAR • CORNER PILLAR • FRONT RAIL • HINGE PILLAR • LOCK PILLAR • RADIATOR CORE SUPPORT • REAR RAIL • REAR STRUT TOWER • ROCKER PANEL • SUSPENSION CROSSMEMBER • UPPER RAIL
 - ▶ • COWL ASSEMBLIES • DASH PANEL • ENGINE CRADLE (bolt-on) • FLOOR PANEL • IMPACT BAR (bolt-on) • PERIMETER FRAME • QUARTER PANEL • RADIATOR CORE SUPPORT (bolt-on) • REAR BODY PANEL • ROOF PANEL • STATIONARY GLASS (urethane bonded)

Equipment considerations for structural replacement operations

- ▶ Dedicated or universal frame bench (dependent on manufacturer requirements for that vehicle)
- ▶ Squeeze type resistance welders (Some may require specific software by the vehicle manufacturer)
- ▶ MAG (Metal Active Gas) or MIG (Metal Inert Gas) Welders - Welder requirements dependent on vehicle manufacturer and processes required.
 - ▶ Type of wire (Aluminum, Silicon Bronze, Steel)
 - ▶ Type of shielding gas
 - ▶ Functionality/features required for process utilized and/or OEM
- ▶ Self piercing rivet guns (dependent on manufacturer requirements for that vehicle)
- ▶ OEM specific adhesive guns and corrosion material application devices

Preparing for the repair blueprint

- ▶ Inspect and document vehicle condition
- ▶ Pre-Wash
- ▶ Pre-Scan
- ▶ Visually inspect
- ▶ Pre-measure structural dimensions
- ▶ Pre-check suspension alignments
- ▶ Research OEM Repair Information
- ▶ Visually map vehicle for disassembly
- ▶ Perform 100% disassembly of all components for repair process required
- ▶ Inspect vehicle and removed components, finalize OEM research

Creating the repair blueprint

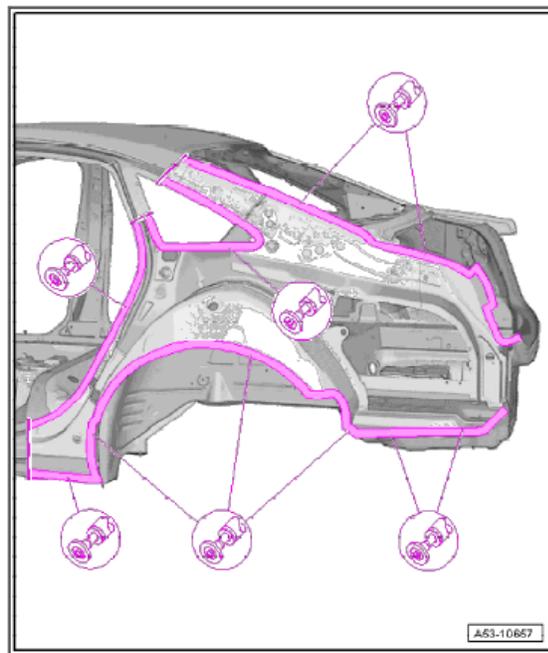


Creating the repair blueprint



Creating the repair blueprint

- ▶ How do we translate the required repair processes based on the damages and OEM replacement requirements to our estimating system? Tell the story using:
 - ▶ OEM Repair information
 - ▶ Estimating guides (Audatex, CCC or Mitchell)
 - ▶ Cheat sheets like the SCRS Guide to Complete Repair Planning or those offered by THE DEG (Database Enhancement Gateway)
 - ▶ WWW.DEGWEB.ORG
 - ▶ <https://scrs.com/wp-content/uploads/2018/01/2016-scrs-guide-to-complete-repair-planning-revised-11-16.pdf>
 - ▶ Training materials (I-CAR, OEM, Other)
 - ▶ Reference prior repair plans on identical or similar vehicles



Replacement Parts

- ◆ Side Panel
- ◆ Molded Foam Parts
- ◆ Cleaning Solution - D 009 401 04-
- ◆ Two-Part Epoxy Adhesive - DA 001 730 A2-, 1 cartridge set

New Part, Preparing

- Transfer the separation cut to the new part and cut the hatched area with a Body Saw .
- Drill holes for the gas-shielded arc plug weld seam using the Drill .
protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorized by AUDI AG. AUDI AG does not guarantee or accept any liability
- Clean the adhesion area with Cleaning Solution - D 009 401 04- so it is free of dust and grease.
- Grind down bonding surface on body to bare metal.
- Clean the flanging area with Cleaning Solution - D 009 401 04- so it is free of dust and grease.

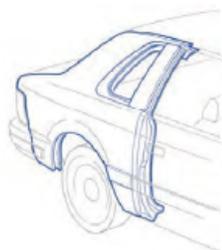
QUARTER PANEL WITHOUT CONVERTIBLE ROOF

SPECIAL NOTATION:

Quarter panel R&R times are generally based upon replacement at the factory seams. On some vehicles, it is not practical to replace at the factory roof seam. If a sectioning operation is not listed, then the R&R time on the parts line represents the time to splice at the best area. GTE page includes Quarter panel sectioning.

INCLUDED:

- Adhesive application if required (all types)
- Back glass & moldings
- Bolt on extensions & fillers
- Carpet & insulation turn back
- Caulk/seam sealer
- Cutting & welding as necessary
- Door striker
- Fuel door
- Grind, fill & smooth welded seams (up to 150 grit sandpaper)
- Interior molding
- Quarter glass & reveal moldings (unless noted)
- Quarter interior trim
- Rear seat R&I
- Rear lamp assemblies R&I (std equip)
- Rear bumper assembly and/or cover R&I (if necessary)
- Rear package tray trim
- Sill plates
- Speakers
- Trunk compartment trim
- Weatherstrips attached to quarter panel
- Wheelhouse liner (plastic)



DOES NOT INCLUDE:

- Antenna
- Body side moldings
- Carpet & insulation R&I
- Electrical wiring
- Emblems & nameplates
- Foam
- Fuel tank
- Glass regulator assembly
- Headliner R&I
- Lamp R&I (optnl equip)
- Mud guard
- Panels inward of quarter
- Road wheel
- Roof cover R&I or roll back
- Spoilers & flares (optnl equip)
- Stripe tape, decals or overlays
- Trunk lid, liftgate or tailgate R&I

OPERATION TIMES LISTED ARE BASED ON NEW UNDAMAGED PARTS INSTALLED ON NEW UNDAMAGED VEHICLES AS INDIVIDUAL OPERATIONS. TIME HAS NOT BEEN CONSIDERED FOR ALIGNMENT PULLS, DAMAGE-RELATED ACCESS TIME, DAMAGED, USED, REMANUFACTURED OR AFTERMARKET PARTS. SOME OPERATION TIMES ARE APPLICABLE AFTER BOLTED, ATTACHED OR RELATED PARTS HAVE BEEN REMOVED. REFER TO SPECIFIC FOOTNOTES ATTACHED TO OPERATION TIME LISTING.

LABOR TIME DOES NOT INCLUDE:

SPECIAL NOTATION:

The items listed below apply to all labor procedures.

- A/C System, Evacuate and Recharge
- Access to repair information/subscription cost
- Aftermarket & OEM accessories
- Alignment, straightening, or verifying the dimensional accuracy of related parts
- Alignment check of front or rear suspension/steering
- Anticorrosion material restoration/application
- Battery D&R/recharge
- Brackets & braces transfer
- Broken glass removal or clean up
- Brakes, bleed and adjust
- Caulk (non-OEM), sound insulate or paint inner areas
- Clean up or detailing of vehicle prior to delivery
- Computer control module D&R/relearn
- Conversion Vans (special components, equipment and trim)
- Cutting, pulling or pushing collision damaged parts for access
- Damaged or defective replacement parts
- Drain & refill fuel tank
- Drilling, modification or fabrication of mounting holes
- Fabricate templates, reinforcing inserts, sleeves or flanges
- Filling, plugging and finishing of unneeded holes in new parts
- Information label installation
- Maintenance costs of building or equipment
- Material costs
- Pinch weld clamp damage repair
- Refinishing
- Repair information retrieval/lookup
- Reset electronic memory functions after battery disconnect
- Road test vehicle
- Rusted, frozen, broken or corrosion damaged components or fasteners
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Steering Angle Sensor recalibration
- Straighten or align used, reconditioned or non-OEM parts
- Structural damage diagnosis and vehicle set up time
- Structural foam removal or application
- Test for water leaks (except Windshield, Back Glass, and Stationary Glass)
- Test panel/spray caulk
- Trial-Fit of a component to verify dimensional accuracy of adjoining parts
- Undercoating, tar or grease removal
- Unprimed bumpers, removal of mold-release agents
- Waste disposal fees (all types)
- Weld through primer
- Welded seam surface finishing finer than 150 grit sandpaper
- Welder set-up or preparation
- Wheel or hub cap locks R&I

75 - QUARTER PANEL:		
388. D&R BATTERY		
389. RESET MEMORY FUNCTIONS		
390. PROTECT INTERIOR FROM REPAIR CONTAMINATION		
391. PRE-PULL QUARTER		
392. REMOVE CAULKING AND SEAM SEALER *RANGE		
393. REPLACE CAULKING AND SEAM SEALER (PER TUBE)		
394. UNDERCOAT AT WHEEL WELL		
395. CAVITY WAX		
396. EXPANSION FOAM (PER TUBE)		
397. SOUND DEADENER TEXT COAT WITH SPRAYBLE SEALER		
398. SECOND COLOR BACK-SIDE		
399. WELD-THRU PRIMER		
400. SOUND DEADENER PADS		
401. CLEAN & RE-TAPE GLUE ON MOLDINGS		
402. REPLACE QUARTER W/O MOLDING WITH AFTERMARKET		
403. FABRICATE QUARTER AND ROCKER PANEL SLEEVES		
404. REPAIR WHEEL HOUSE, FROM ADHESIVE DISTORTION DAMAGE		
405. TEST FIT ATTACHING PARTS ** TAILLAMPS, GLASSES ETC**		
406. PULL BACK WIRE HARNESS		
407. R&I BACK SEAT-S		
408. R&I SEAT BELTS		
409. PULL BACK CARPET & FLOOR INSTULATION		
410. FEATHER & FILL CONTOUR REPAIR AREAS, ROCKER & PILLAR		
411. DOOR OPEN FLANGE BACKSIDE, REPAIR/DRESS WELDS		

Labor Category Legend – By Color:

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- Detail
- Other

412. WHEEL OPEN BACKSIDE WELDS, REPAIR/DRESS		
413. REPAIR DECK LID TROUGH		
414. ROCKER WELDS BACKSIDE, REPAIR/DRESS		
415. REAR BODY PANEL BACKSIDE AT WELD AREA, REPAIR/DRESS		
416. GLASS FLANGE BACKSIDE OF WELD AREA, REPAIR/DRESS		
417. TRUNK FLOOR POCKET WELD AREA REAR OF TIRE, REPAIR/DRESS		
418. GRAVEL GUARD (SPRAY-ON)		
419. STONE GUARD DECAL		
420. REPLACE FOAM ADHESIVE BETWEEN WHEEL HOUSE & QTR		
421. REPAIR GLASS OPEN FLANGE DAMAGE FROM CUT KNIFE		
422. INSTALL SHUNTING PLIERS		
423. INSTALL CUT LINE TAPE		
424. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
425. COBALT DRILL BIT (BORON-TRIP-UZI BOR)		
426. CLEAN FILE AND DEBUR WELD AREA		
427. CAUTIONARY MEASURES TO PREVENT GLASS MOLDING DAMAGE		
428. MASK WRAP WIRE HARNESS		
429. MASK/BAG INTERIOR FOR REFINISH		
430. MASK QUARTER JAMBS & OPENINGS		
431. MASK FOR PRIMER APPLICATION		
432. SPOT PAINT DOOR OPEN FLANGE, BACKSIDE		
433. SPOT PAINT WHEEL OPEN BACKSIDE WELD AREA		
434. SPOT PAINT ROCKER, BACK SIDE		
435. SPOT PAINT BACKSIDE OF BACK PANEL AT WELD AREA		
436. SPOT PAINT BACKSIDE OF GLASS FLANGE WELD AREA		
437. SPOT PAINT TRUNK FLOOR WELD AREA		
438. REFINISH WELD DAMAGE AREAS ** EACH DIRECTION***		
439. REFINISH TWO TONE BLACK-OUT		
440. PULL-BACK/MASK QUARTER GLASS		
441. PULL-BACK/MASK BACK GLASS		
442. PREP QUARTER PANEL CLADDING FOR "RAW" PROCESSING		
443. REPLACE QUARTER GLASS URETHANE INSTALLATION KIT		
444. REPLACE BACK GLASS URETHANE INSTALLATION KIT		

	CCC		Mitchell		Audatex	
	Included	Not Included	Included	Not Included	Included	Not Included
Removal of seam sealer	x		x		x	
Apply Seam Sealer (Water Tight Seal)	x		x			x
Replicate Seam Sealer OEM Appearance		x		x		x
Mask for seam sealer application		x		x		x
Apply primer prior to seam sealer		x		x		x
Remove undercoat/ tar/ grease/chip guards		x		x		x
Structural adhesive removal	x		x			x
Clean up glass adhesive		x	x			x
Cavity Wax removal		x		x		x
Cavity Wax install		x		x		x
Weld Thru Primer Application		x		x	x	
Expanding Foam/ 2k Foam remove and install		x		x		x
Ecoat removal on replacement panel install	x		x			x
Feather Prime and Block Welded Panel Replacement		x		x	x	
Feather prime and block repaired panels		x		x		x
Mask for Primer application		x		x		x
Material Cost		x		x		x

Operations to consider

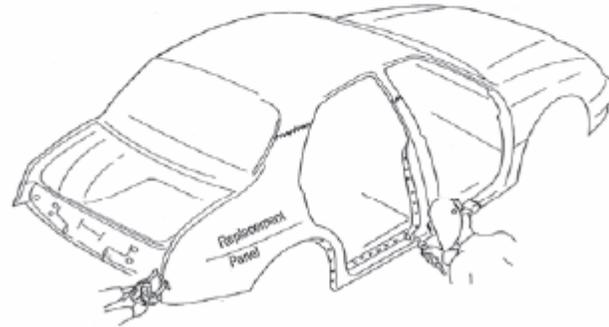
- ▶ Pre-measure
- ▶ Unibody or fixture setup (fixture rental cost)
- ▶ Cover/protect vehicle and removed components
- ▶ Structural realignment pulls or pre-pull for removal
- ▶ Removal of cavity wax, grease, seam sealer, tar or any materials that would affect repair processes
- ▶ Removal of adjacent components (Airbags, Bumpers (Reinforcement), Doors, Electronic Modules, Glass, Headliner, Hinges, Interior Trim, Lamps, Rocker Mldg, Seatbelts, Trunk lid, Wheels, Wiring)
- ▶ New Panel preparation (refinishing of underside, removal of ecoat, masking for weld-thru application, applying weld-thru, sound deadening and/or foam material duplication/application)
- ▶ Weld Zone/Adjacent Panel repair and refinish (repair/straighten flanges, removal of ecoat for weld-thru or adhesive, feather edge backside, epoxy primer application, refinish/spatter duplication of backside appearance)

Weld Zone/Adjacent Panel areas

WELD ZONE/ADJACENT PANEL

SPECIAL NOTATION:

Suggested refinish operation times do not include additional time for repair of damage to adjacent panels resulting from normal cutting, welding and grinding procedures. The amount of damage can vary considerably depending upon process and technique used by the servicing technician and, therefore, is impractical to anticipate in this publication. MOTOR recommends these factors be considered before finalizing any repair cost estimate. Typical areas to be considered are illustrated below.



Weld Zone/Adjacent Panel areas

- ▶ C-pillar reinforcement
- ▶ Floor pan extension
- ▶ Lock pillar reinforcement
- ▶ Outer rocker panel
- ▶ Outer roof rail/sail panel
- ▶ Outer wheelhouse
- ▶ Quarter gutter/tough
- ▶ Rear body panel
- ▶ Rear rocker reinforcement

Weld Zone/Adjacent Panel areas



Operations to consider

- ▶ Test fit/alignment of structural components
- ▶ Test fit/alignment of adjacent panels (Bumper, Door, Glass, Lamps, Trunk)
- ▶ Setup/test of welders (Create coupons from old material to perform and destructively test welds. Could be as many as 3 welder setups depending on processes)
- ▶ Adhesive application
- ▶ Adhesive cleanup
- ▶ Adhesive bench cure time
- ▶ Repair any welding burn damage to adjacent panels previously outlined
- ▶ Wash/tack after repairs

Operations to consider





Devices

Only the devices approved in the Workshop Equipment Catalog may be used.

Test Button Weld

- For the necessary button weld diameter, determine the panel pairing based on the manufacturer's specifications and check with test panels.
- Check all spot weld connections 100% with a chisel test.

Qualitatively acceptable spot welds do not tear into the contact surface, but rather "unbutton".

- Calculate the button weld diameter with the following formula and check on test panels before beginning repair.

Square root of $T1 \times 3,5 \times 1,15$



Note

T1 is the thinnest panel in a panel combination, for example, panel combination of 1,5 mm and 0,8 mm. Example calculation: root of $0,8 \times 3,5 \times 1,15 = 3,6$ mm button weld diameter. With the test, the small welded test strip is rolled or pulled from the second test strip with force perpendicular to the panel surface.



Devices

Only the devices approved in the Workshop Equipment Catalog may be used.



WARNING

- ◆ *Welding and sanding must always be carried out with ventilation.*
- ◆ *Never weld and sand in any area at the same time.*
- ◆ *Clean the work area regularly depending on the amount of dust.*
- ◆ *Accumulated dust must not be blown away with compressed air.*
- ◆ *The ventilation system must be cleaned regularly.*
- ◆ *Also, observe the corresponding regulations from the UVV and the BG.*

6.2 Gas-Shielded Plug Welding

Gas-shielded plug welding is mostly used when the standard implemented resistance spots cannot be recreated, for example due to limited accessibility.

Always refer to the vehicle-specific repair manuals for this.

Operations to consider

- ▶ Cover car for primer application
- ▶ Feather, prime and block welded replacement seams
- ▶ Epoxy primer application to welded flanges
- ▶ Wash/tack after blocking
- ▶ Setup/test seam sealer to duplicate OEM appearance
- ▶ Cavity wax application
- ▶ Repair/refinish clamping or fixture locations

Operations to consider



Operations to consider



How does this all this transfer to your repair blueprint?

ESTIMATE TOTALS

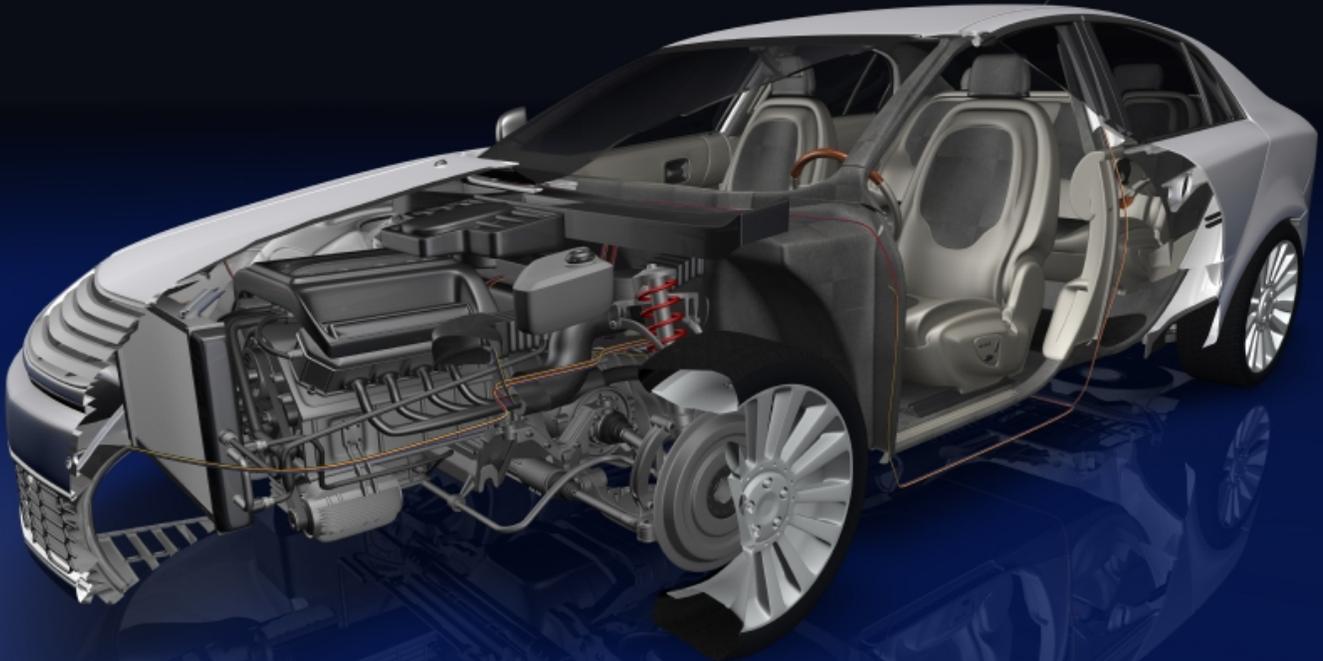
Category	Basis		Rate
Parts			
Body Labor	66,8 hrs	@	\$ 55,00 /hr
Paint Labor	46,9 hrs	@	\$ 55,00 /hr
Mechanical Labor	7,6 hrs	@	\$ 110,00 /hr
Frame Labor	6,0 hrs	@	\$ 85,00 /hr
Structural Labor	25,5 hrs	@	\$ 85,00 /hr
Miscellaneous			
Other Charges			

Q&A:

- ▶ Questions
- ▶ Comments
- ▶ Concerns



Guide to Complete Repair Planning Operations Reference Handbook



This guide is owned by and maintained by the Society of Collision Repair Specialists. If you have suggestions to update the guide in future editions, please submit your suggestions to info@scrs.com

The Society of Collision Repair Specialists (SCRS) recognizes that there are many legitimate operations and services our technicians provide that go unrecognized in the estimate development and final billing processes. The purpose of this document is to aid repair facility personnel in formulating the most accurate repair plan in the estimate preparation process, to minimize the need or expense of a supplement. This document is intended to be used as a guide to develop and maintain processes performed in your repair facility, and serves as a reminder of steps that may be performed during the repair process. This document does not suggest, or promote, that your shop can or should charge for each item listed; and is only intended to be a reminder for repair operations that are performed in your facility.

The document does not contain pricing, quantities, labor hours or any additional information as that should be determined based on your facility's individual requirements. All recipients of this document 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.

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- Other

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45. PILLARS	50. ROCKERS	55. DOOR SKIN / SHELL
60. ROOF	65. CAB CORNER, PICKUP	70. CAB BACK PANEL, PICKUP
75. QUARTER PANEL	80. PICKUP BED SIDE PANEL	85. VAN/SUV SIDE PANEL
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105. PROTECTION & SAFETY	110. PAINT PREP	115. REFINISH PROCESS
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165. THEFT/VANDELISM	170. DETAIL / CLEAN-UP	175. TOW, STORAGE & ADMINISTRATION
180. FINAL BILL / MISCELLANEOUS		

DESCRIPTION	MATERIAL SUBLET PRICE	MINIMUM LABOR UNITS
01 - FRONT AND REAR BUMPERS:		
1. FEATHERFILL, SAND AND BLOCK REPAIR AREA		
2. REMOVE BUMPER MOLDING ADHESIVE		
3. DRILL FOR LICENSE PLATE		
4. R&I LICENSE PLATE		
5. LICENSE PLATE, REPAIR		
6. LOOSEN/PULL BACK BUMPER COVER		
7. CCC BUMPER PROMPT *ADD BACK OVERLAP + CLEAR*		
8. R&I FOG LAMPS		
9. R&I TRAILER HITCH (ON BUMPER)		
10. AIM FOG LAMPS		
11. R&I CAMERA AND WIRING		
12. TRIAL FIT BUMPER		
13. R&I TRAILER HITCH (FRAME BOLT-ON TYPE)		
14. R&I OR R&R SENSORS (SRS-AMBEINT TEMP- ETC)		
15. REPAIR BUMPER BRACKET AND/OR OTHER COMPONENTS		
16. REPAIR BUMPER BRACKET MOUNT AREA		
17. REPAIR ELECTRICAL WIRING TO LAMP LIGHTS		
18. REFINISH O.E.M "RAW" BUMPER		
19. REFINISH, SECOND COLOR ON BUMPER COVER		
20. REFINISH, BLACK-OUT ON BUMPER COVER		
21. PAINT PREP & CLEAN UP USED BUMPER		
22. MASK UNPAINTED AREAS ON BUMPER COVER		
23. MASK BUMPER COVER FOR PRIMER APPLICATION		
24. FLEXIBLE PARTS ADHESION PROMOTOR APPLICATION		
25. REPLACE MINI BULBS		
26. RAW BUMPER PREP KIT		
27. BUMPER FASTENERS/RETAINERS (KIT)		
28. URETHANE BUMPER REPAIR KIT (MATERIALS)		

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29. FLEXIBLE PARTS ADDITIVE		
05 - HOOD:		
30. R&I WINDSHIELD WASHER NOSSELS <i>(REPAIR SITUATION)</i>		
31. R&I HOOD INSULATION		
32. WINDSHIELD WASHER HOSE RETAINERS <i>(MORE THAN ONE DESIGN)</i>		
33. REPAIR HOOD LATCH		
34. REPAIR HOOD HINGES AND/OR HINGE MOUNT AREA		
35. ACCESS TIME TO REVEAL DAMAGE		
36. FEATHEREDGE, FILL SAND AND BLOCK <i>(REPAIRED HOOD)</i>		
37. SEAM SEAL INNER EDGE OF NEW HOOD		
38. R&I OR R&R HOOD HINGE		
39. R&I COWL VENT PANEL <i>(ACCESS TO HINGE)</i>		
40. TEST FIT HOOD		
41. MIX PAINT FOR UNDERSIDE SECOND COLOR <i>(ADD FOR 3RD AND 4TH COLOR)</i>		
42. COLOR TINT & TEST FOR UNDER SIDE SECOND COLOR		
43. MASK HOOD INNER EDGES		
44. WINDSHIELD WASHER HOSE FASTENER-S <i>(1ST DESIGN)</i>		
45. WINDSHIELD WASHER HOSE FASTENERS <i>(2ND DESIGN)</i>		
46. HOOD INSULATION RETAINER FASTENERS, REPLACE		
47. HOOD FRONT SEAL/ FASTENERS		
48. HOOD REAR SEAL/ FASTENERS		
49. ALUMINUM MATERIAL LABOR RATE		
50. HOOD LABELS ***HOW MANY?****		
10 - FENDER:		
51. R&I TIRE WHEEL		
52. R&I FENDER LINER		
53. R&I FENDER MOLDINGS, EMBLEMS AND FLARE		
54. R&I MUD FLAP		
55. R&I ROCKER COVER		
56. REPLACE ROCKER COVER FASTENERS <i>(TWO DESIGNS?)</i>		
57. REPLACE FENDER FLARE FASTENERS		
58. CLEAN AND RETAPE FENDER MOLDING-S AND EMBLEM		
59. REPLACE LINER FASTENERS		
60. FEATHEREDGE, FILL SAND AND BLOCK REPAIRED FENDER		
61. CAVITY WAX		
62. REMOVE FACTORY INSTALLED ADHESIVE FOR ACCESS		
63. ALIGN ADJACENT PANEL-S TO FENDER		
64. ANTENNA BASE CORROSION, REPAIR		
65. MASK FENDER JAMS AND OPENINGS		
66. FENDER MLDG CLADDING PREP FOR "RAW"		
67. GRAVEL GUARD		
68. REMOVE STRIPES **ERASER WHEEL***		
69. FENDER BLACK OUT SECOND COLOR		
15 - CORESUPPORT:		
70. ACCESS/PRE-PULLING		
71. PROTECT ENGINE COMPARTMENT COMPONENTS		
72. REPAIR CUT WIRING		
73. ACQUIRE RADIO CODE		
74. RESET MEMORY FUNCTIONS		

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75. MEMORY "SAVER" COLLISION TOOL		
76. REMOVE CAULKING & SEAM SEALER		
77. TEST FIT PARTS ATTACHED TO CORESUPPORT		
78. PULL BACK WIRE HARNESS		
79. REPAIR WIRE HARNESS FASTENERS		
80. CLOSE/SECURE OPEN TUBES AND LINES		
81. FEATHER AND FILL WELDS AT WELD LOCATIONS		
82. R&I WHEELS		
83. R&I ROCKER COVERS AND/OR MUD FLAPS		
84. R&I FENDERS (ADD FOR SPLASH SHIELDS & FASTENERS)		
85. R&I ENGINE UNDERCOVER SHIELD		
86. R&I WINDSHIELD WASHER RESERVOIR		
87. R&I AC DRIER		
88. R&I AIR INTAKE DUCTING, AND/OR REPAIR		
89. R&I RADIATOR OVERFLOW TANK, AND/OR REPAIR		
90. R&I SECOND BATTERY		
91. R&I BATTERY TRAY		
92. R&I COMPONENTS ATTACHED BY WELDING/RIVETING		
93. REPAIR LEFT AND RIGHT APRON PANELS, AND PAINT		
94. REPAIR LEFT AND RIGHT UPPER RAILS, AND PAINT		
95. REPAIR LEFT AND RIGHT FRAME RAIL ATTACHMENT AREA		
96. AIM LIGHTS		
97. REMOVE SURFACE CORROSION/ROAD TAR/GREASE		
98. WRAP MASK WIRE HARNESS		
99. MASK BAG ENGINE		
100. MASK A/C LINES-HOSES-HARNESES & COMPONETS		
101. MIX PAINT FOR UNDERSIDE COLOR		
102. SECOND COLOR BLACK-OUT		
103. SPOT PAINT LEFT AND RIGHT FRAME AT WELDED AREAS		
104. SPOT PAINT/BLEND APRON PANEL DAMAGED BY WELDING		
105. REPLACE WIRE HARNESS FASTENERS		
106. REPLACE INFORMATION LABELS **HOW MANY?****		
107. REPLACE HOOD PROP GRUMMET		
108. REPLACE CAULKING AT SEAMS		
109. UNDERCOAT (SECOND COLOR)		
110. CAVITY WAX		
111. COBALT DRILL BIT (BORON-TRIP-UZI BOR)		
112. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
113. WELD-THROUGH PRIMER		
20 - RADIATOR, AC AND FLUIDS:		
114. REPAIR RADIATOR		
115. REPAIR FAN SHROUD(S)		
116. REPAIR AC CONDENSER/LINES		
117. FLUSH LKQ CONDENSER/LINES		
118. FLUSH LKQ RADIATOR/LINES		
119. REPAIR AC LINES & TUBES		
120. REPLACE RADIATOR "O"-RINGS **TRANS**		
121. REPAIR TRANS COOLER/LINES		
122. REPAIR WIRING/FASTENERS ATTACHED TO FAN SHROUDS		
123. PRESSURE TEST COOLING SYSTEM		

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124. BLEED COOLING SYSTEM		
125. TEST AC SYSTEM/CONTIMANITES		
126. RECOVER AC FREON		
127. EVACUATE & RECHARGE AC SYSTEM		
128. TEST KIT REFRIGERANT RECOVERY		
129. COOLANT, OEM RECOMMENDED PER GALLON		
130. VACUUM FILL RADIATOR		
131. TRANSMISSION FLUID (PINT)		
132. STEERING FLUID (PINT)		
133. WINDSHIELD WASHER FLUID		
134. R-134 FREON AND OIL (TWO POUNDS)		
135. O-RING SEAL KIT FOR AC LINES		
25 - APRON/UPPER RAIL:		
136. PRE-PULL/ACCESS		
137. REMOVE CAULKING & SEAM SEALER		
138. REPLACE CAULKING AND SEAM SEALER (NEW PART)		
139. TEXT COAT, SPRAYABLE SEALER		
140. UNDERCOAT, BLACK		
141. EXPANSION FOAM		
142. CAVITY WAX RUSTPROOFING		
143. WELD-THROUGH PRIMER		
144. TEST FIT ADJACENT PARTS		
145. R&I CRUISE CONTROL UNIT, AND/OR REPAIR		
146. R&I ELECTRONIC CONTROL MODULE, AND/OR REPAIR		
147. R&I AIR INTAKE DUCTING, AND/OR REPAIR		
148. R&I AC TUBING AND HOSE		
149. R&I SRS SENSOR		
150. R&I WINDSHIELD RESERVOIR, AND/OR REPAIR		
151. R&I BATTERY TRAY		
152. R&I FUSE BOX, AND/OR REPAIR		
153. R&I EMISSION CANISTOR AND HOSES, AND/OR REPAIR		
154. R&I CAB INTERIOR COMPONENTS (INNER TRIM, DASH, HEATER BOX / AC)		
155. PULL BACK WIRE HARNESS		
156. FEATHER AND FILL CONTOUR REPAIR AREAS		
157. FEATHER AND FILL WELDS		
158. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
159. COBALT DRILL BIT (BORON-TRIP-UZI BOR)		
160. CLEAN FILE AND DEBUR WELD AREA		
161. REPAIR ADJOINING PANELS DAMAGED BY WELDING		
162. WRAP MASK WIRE HARNESS AT APRON		
163. WRAP MASK ENGINE		
164. SECOND COLOR, ENGINE SIDE (CUSTOM COLOR MATCH)		
165. THIRD COLOR, FENDER SIDE (CUSTOM COLOR MATCH)		
166. BLACK-OUT ON APRON, SECOND OR THIRD COLOR		
167. UNDERSIDE SECOND COLORS, REFINISH		
30 - WHEELS/TIRES/WHEEL ALIGNMENT:		
168. REPLACE VALVE STEMS AND WEIGHTS		
169. MOUNT & BALANCE TIRE		
170. R&I WHEEL COVERS		
171. TIRE DISPOSAL FEE		

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172. REPAIR RIM EDGE, POLISH SKUFF MARKS		
173. ROTATE TIRES		
174. RESET TIRE PRESSURE SENSORS		
175. R&I WHEEL COVERS TO MOUNT ALIGNMENT HEADS		
176. FOUR WHEEL ALIGNMENT		
177. ECENTRIC ALIGNMENT KIT (PER SIDE)		
178. INSPECT SUSPENSION COMPONENTS FOR DAMAGE		
35 - SUSPENSION/MECHANICAL:		
179. BLEED BRAKES AND ADD FLUID (PINT)		
180. BLEED BRAKES (ABS)		
181. RESET ABS SYSTEM WITH SCANNER		
182. SHIFT CROSSMEMBER		
183. MEMORY "SAVER" COLLISION TOOL		
184. SHIFT ENGINE CRADLE		
185. ADJUST LINKAGE-S		
186. DRAIN & TRANSFER FUEL		
187. CHECK RUN-OUT ON WHEEL (NEEDED TO FOR BALANCE)		
40 - SRS/SEAT BELTS:		
188. CLEAN UP DEPLOYED AIR BAG RESIDUE		
189. REPAIR SEAT FRAME		
190. INSPECT SEAT BELTS		
191. CLEAR SRS FUNCTION CODE ON DASH		
192. INSPECT SRS WIRING		
45 - PILLARS:		
193. PRE-PULL PILLAR		
194. REMOVE CAULKING AND SEAM SEALER		
195. REPLACE CAULKING AND SEAM SEALER		
196. EXPANSION FOAM		
197. CAVITY WAX RUSTPROOFING		
198. WELD-THRU PRIMER		
199. FABRICATE PILLAR SLEEVE INSERTS		
200. TEST FIT PARTS ADJACENT TO PILLAR		
201. R&I SEAT TO ACCESS PILLAR REPAIRS/REPLACEMENT		
202. COLBALT BIT UHSS		
203. PULL BACK WIRE HARNESS		
204. FEATHER & FILL CONTOUR REPAIR AREA		
205. REPAIR/DRESS WELDS AT FLANGES		
206. CLEAN FILE AND DEBUR WELD AREA		
207. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
208. WRAP MASK WIRE HARNESS		
209. MASK TO PROTECT INTERIOR		
210. SPOT REFINISH INNER SIDE OF PILLAR		
211. REFINISH SECOND COLOR BLACK-OUT ON PILLAR		
50 - ROCKERS:		
212. PRE-PULL ROCKER		
213. REMOVE CAULKING & SEAM SEALER		
214. REPLACE CAULKING & SEAM SEALER		
215. EXPANSION FOAM		
216. TEXT COAT		

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217. CAVITY WAX		
218. WELD-THRU PRIMER		
219. FABRICATE ROCKER SLEEVE INSERTS		
220. TEST FIT PARTS ADJACENT TO ROCKER		
221. GRAVEL/STONE GUARD (**NOTE THE THICKNESS**) PER TUBE		
222. R&I SEAT		
223. R&I SEAT BELT-S		
224. PULL BACK CARPET AND PADDING		
225. STONE GUARD DECAL		
226. PULL BACK WIRE HARNESS		
227. REPAIR/DRESS WELDS AT FLANGES		
228. REPAIR INNER ROCKER		
229. REPAIR A-PILLAR AT WELD AREA		
230. REPAIR CENTER PILLAR AT WELD AREA		
231. REPAIR FLOOR AT WELD AREA		
232. REPAIR ¼ PANEL AT WELD AREA		
233. CLEAN FILE AND DEBUR WELD AREA		
234. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
235. COBALT DRILL BIT (BORON-TRIP-UZI BOR)		
236. FEATHER & FILL CONTOUR REPAIR AREAS		
237. WRAP MASK WIRE HARNESS		
238. MASK TO PROTECT INTERIOR		
239. MASK FOR PRIMER APPLICATION		
240. PREP FOR ROCKER PANEL MLDG CLADDING "RAW"		
241. REFINISH INNER ROCKER		
242. REFINISH A-PILLAR		
243. REFINISH CENTER PILLAR		
244. REFINISH FLOOR AREA		
245. REFINISH LOCK POST		
246. REFINISH ¼ PANEL AT WELD AREA		
247. REFINISH BLACK-OUT AT ROCKER		
248. TEXT COAT ROCKER, OUTER (MASKING REQUIRED)		
249. TEXT COAT ROCKER, BACK SIDE		
55 - DOOR SKIN/SHELL:		
250. DISCONNECT AND RECONNECT BATTERY		
251. PROTECT INTERIOR FOR PROTECTION		
252. ACQUIRE RADIO CODE & PLACE TO OFF POSITION		
253. RESET MEMORY FUNCTIONS		
254. REMOVE ADHESIVE AT INTRUSION BEAM, BELT REINF & DR EDGE		
255. REPLACE CAULKING & SEAM SEALER		
256. WELD-THRU PRIMER		
257. CAVITY WAX		
258. FLUTTER BONDING		
259. SOUND DEADENER PAD-S		
260. CLEAN & RETAPE ADHESIVE DOOR MOLDING		
261. REPLACE DOOR EDGE GUARD MOLDING		
262. REPAIR VAPOR BARRIER WEATHER SHIELD		
263. REPLACE VAPOR BARRIER, (OEM)		
264. REPLACE BELT MOLDING FASTENERS		
265. TEST FIT DOOR BEFOR WELD-BONDING		

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266. REPAIR EDGE OF DOOR SHELL, (<i>REMOVAL DISTORTION</i>)		
267. RE-BOND INTRUSION BEAM/BELT REINSTALL FLUTTER MATERIAL		
268. DOOR SKIN BONDING KIT		
269. ADJUST/RECALIBRATE POWER DOOR LOCK SYSTEM		
270. FEATHER & FILL CONTOUR REPAIR AREAS, (<i>DOOR EDGE</i>)		
271. DRESS WELDS		
272. STONE GUARD DECAL		
273. R&I RAIN SHIELD (VENT SHADE)		
274. R&I WELDED BELT REINFORCEMENT PANEL		
275. R&I SRS AIR BAG		
276. R&I DOOR MIRROR		
277. R&I DOOR GLASS		
278. R&I AIR-SEAL WEATHER STRIP AT PERIMETER (<i>SOME MODELS ONLY</i>)		
279. R&I DOOR CHECK (<i>WHEN SKINNING DOOR</i>)		
280. R&I DOOR LATCH, (<i>WHEN SKINNING DOOR</i>)		
281. R&I DOOR CHECK		
282. R&I DOOR LATCH		
283. R&I DOOR SPEAKER		
284. R&I DOOR GLASS RUN CHANNEL		
285. WRAP/MASK WIRE HARNESS		
286. PREP DOOR CLADDING FOR "RAW" PROCESSING		
287. MASK DOOR OPENINGS & JAMS		
288. WINDOW BLACK OUT AT WINDOW FRAME, (<i>SECOND COLOR</i>)		
289. GRAVEL GUARD		
290. DOOR SKIN BONDING MATERIAL		
291. RECODE DOOR LOCK CYLINDER		
292. DOOR FASTENERS & RIVETS		
293. RR&I LKQ DOORS-CHARGE TO DISASSEMBLE BOTH DOOR		
60 - ROOF:		
294. R&I ANTENNA MAST THAT IMPEDES ACCESS		
295. MASK SUN ROOF OPENING/EDGES		
296. R&I ALL INTERIOR AND EXTERIOR **ATTACHMENTS ****		
297. PREPAIR FOR WELD BONDING		
298. REPAIR ADJACENT PANELS DISTORTED IN REMOVAL PROCESS		
299. FEATHER & FILL CONTOUR REPAIR AREAS		
300. REMOVE EXPANSION FOAM FROM ROOF REINFORCEMENTS		
301. REMOVE URETHANE RESIDUE ON PINCH WELDS (<i>FULL CUT OUT</i>)		
302. REPAIR DAMAGE TO PINCH WELD FROM GLASS REMOVAL KNIFE		
303. FEATHER & FILL WELDS		
304. REMOVE EXPANSION FOAM		
305. EXPANSION FOAM (PER CAN)		
306. REMOVE PANELS FOR INSTALLATION *		
307. REPAIR ADJACENT REINFORCEMENT PANEL-S		
308. R&I SEAT-S		
309. CLEAN FILE AND DEBUR WELD AREA		
310. COVER AND PROTECT INTERIOR		
311. R&I WIRE HARNESS		
312. WELD-THRU PRIMER		
313. CAVITY WAX		
314. REPLACE SOUND DEADENER PADS (EACH PACK)		



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315. FLUTTER FOAM (PER TUBE)		
316. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
317. BLEND RIGHT SIDE ROOF PILLARS		
318. BLEND LEFT SIDE ROOF PILLARS		
319. MASK FOR PRIMER APPLICATION		
320. PULLBACK/ROPE/MASK BACK GLASS MOLDING		
321. PULLBACK/ROPE/MASK WINDSHIELD MOLDING		
322. PULLBACK/ROPE/MASK LEFT QUARTER GLASS		
323. PULLBACK/ROPE/MASK RIGHT QUARTER GLASS		
324. COBALT DRILL BIT (BORON-TRIP-UZI BOR)		
325. WINDSHIELD INSTALLATION KIT		
326. BACK GLASS INSTALLATION KIT		
327. QUARTER GLASS INSTALLATION KIT		
65 - CAB CORNER, PICKUP:		
328. PRE-PULL CAB CORNER AS NEEDED		
329. REMOVE CAULKING & SEAM SEALER		
330. REPLACE CAULKING & SEAM SEALER (REPAIR AND REPLACE)		
331. CAVITY WAX		
332. WELD-THRU PRIMER		
333. TEST FIT ADJACENT PARTS AS NEEDED		
334. FABRICATE CAB CORNER SLEEVES		
335. PULL BACK WIRE HARNESS		
336. SOUND DEADENER		
337. R&I SEAT		
338. R&I CARPET AND FLOOR INSULATION		
339. FEATHER & FILL CONTOUR REPAIR AREAS		
340. MASK FOR PRIMER APPLICATION		
341. FEATHER & FILL WELDS		
342. REPAIR ROCKER		
343. REPAIR REINFORCEMENT AND INNER PANEL		
344. MEASURE CAB FOR SQUARE		
345. REPAIR FLOOR		
346. REPAIR GLASS-OPEN FLANGES FROM CUT-OUT KNIFE DAMAGE		
347. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
348. PULL BACK /ROPE/MASK BACK GLASS		
349. PULL BACK/ROPE/MASK QUARTER GLASS		
350. REPLACE SOUND DEADENER PAD		
351. TRANSFER WELDED DOOR STRICKER PLATE		
352. REFINISH BACK SIDE OF CAB CORNER		
353. MASK WRAP WIRE HARNESS		
354. MASK/BAG INTERIOR FOR REFINISH		
355. MASK JAMS AND OPENINGS		
356. SPOT PAINT INNER SIDE OF WELDED FLANGES		
357. SPOT PAINT ROCKER		
358. SPOT PAINT BACK PANEL		
359. SPOT PAINT FLOOR		
360. GRAVEL GUARD CAB CORNER		
361. BACK GLASS INSTALLATION KIT		
362. QUARTER GLASS INSTALLATION KIT		
70 - CAB BACK PANEL, PICKUP:		

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363. PRE-PULL BACK PANEL		
364. REMOVE CAULKING & SEAM SEALER		
365. REPLACE CAULKING & SEAM SEALER		
366. CAVITY WAX COATING		
367. TEXT COAT, (SPRAY SEALER)		
368. WELD-THRU PRIMER		
369. SOUND DEADENER		
370. R&I TIRE REPLACEMENT TOOLS		
371. REPAIR ADJACENT PANELS DAMAGED BY WELDING		
372. R&I SEAT		
373. R&I SEAT BELTS		
374. R&I CARPET AND INSULATION		
375. PULL BACK WIRE HARNESS		
376. FEATHER & FILL CONTOUR REPAIR AREA		
377. FEATHER & FILL WELDS		
378. CLEAN FILE AND DEBUR WELD AREA		
379. REPAIR GLASS OPEN FLANGE DAMAGE FROM CUT KNIFE		
380. WRAP MASK WIRE HARNESS		
381. MASK/BAG INTERIOR FOR REFINISH		
382. MASK FOR PRIMER APPLICATION		
383. REFINISH INNER SIDE		
384. SPOT PAINT INNER CAB CORNERS		
385. SPOT PAINT FLOOR		
386. BLACK OUT ON CAB BACK PANEL		
387. CAB CORNER GLASS INSTALLATION KIT		
75 - QUARTER PANEL:		
388. D&R BATTERY		
389. RESET MEMORY FUNCTIONS		
390. PROTECT INTERIOR FROM REPAIR CONTAMINATION		
391. PRE-PULL QUARTER		
392. REMOVE CAULKING AND SEAM SEALER *RANGE		
393. REPLACE CAULKING AND SEAM SEALER (PER TUBE)		
394. UNDERCOAT AT WHEEL WELL		
395. CAVITY WAX		
396. EXPANSION FOAM (PER TUBE)		
397. SOUND DEADENER TEXT COAT WITH SPRAYBLE SEALER		
398. SECOND COLOR BACK-SIDE		
399. WELD-THRU PRIMER		
400. SOUND DEADENER PADS		
401. CLEAN & RE-TAPE GLUE ON MOLDINGS		
402. REPLACE QUARTER W/O MOLDING WITH AFTERMARKET		
403. FABRICATE QUARTER AND ROCKER PANEL SLEEVES		
404. REPAIR WHEEL HOUSE, FROM ADHESIVE DISTORTION DAMAGE		
405. TEST FIT ATTACHING PARTS ** TAILLAMPS, GLASSES ETC**		
406. PULL BACK WIRE HARNESS		
407. R&I BACK SEAT-S		
408. R&I SEAT BELTS		
409. PULL BACK CARPET & FLOOR INSTULATION		
410. FEATHER & FILL CONTOUR REPAIR AREAS, ROCKER & PILLAR		
411. DOOR OPEN FLANGE BACKSIDE, REPAIR/DRESS WELDS		

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412. WHEEL OPEN BACKSIDE WELDS, REPAIR/DRESS		
413. REPAIR DECK LID TROUGH		
414. ROCKER WELDS BACKSIDE, REPAIR/DRESS		
415. REAR BODY PANEL BACKSIDE AT WELD AREA, REPAIR/DRESS		
416. GLASS FLANGE BACKSIDE OF WELD AREA, REPAIR/DRESS		
417. TRUNK FLOOR POCKET WELD AREA REAR OF TIRE, REPAIR/DRESS		
418. GRAVEL GUARD (SPRAY-ON)		
419. STONE GUARD DECAL		
420. REPLACE FOAM ADHESIVE BETWEEN WHEEL HOUSE & QTR		
421. REPAIR GLASS OPEN FLANGE DAMAGE FROM CUT KNIFE		
422. INSTALL SHUNTING PLIERS		
423. INSTALL CUT LINE TAPE		
424. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
425. COBALT DRILL BIT (BORON-TRIP-UZI BOR)		
426. CLEAN FILE AND DEBUR WELD AREA		
427. CAUTIONARY MEASURES TO PREVENT GLASS MOLDING DAMAGE		
428. MASK WRAP WIRE HARNESS		
429. MASK/BAG INTERIOR FOR REFINISH		
430. MASK QUARTER JAMBS & OPENINGS		
431. MASK FOR PRIMER APPLICATION		
432. SPOT PAINT DOOR OPEN FLANGE, BACKSIDE		
433. SPOT PAINT WHEEL OPEN BACKSIDE WELD AREA		
434. SPOT PAINT ROCKER, BACK SIDE		
435. SPOT PAINT BACKSIDE OF BACK PANEL AT WELD AREA		
436. SPOT PAINT BACKSIDE OF GLASS FLANGE WELD AREA		
437. SPOT PAINT TRUNK FLOOR WELD AREA		
438. REFINISH WELD DAMAGE AREAS ** EACH DIRECTION***		
439. REFINISH TWO TONE BLACK-OUT		
440. PULL-BACK/MASK QUARTER GLASS		
441. PULL-BACK/MASK BACK GLASS		
442. PREP QUARTER PANEL CLADDING FOR "RAW" PROCESSING		
443. REPLACE QUARTER GLASS URETHANE INSTALLATION KIT		
444. REPLACE BACK GLASS URETHANE INSTALLATION KIT		
80 - PICKUP BED SIDE PANEL:		
445. PREPULL BED SIDE PANEL		
446. PREPULL BED FLOOR PANEL		
447. STRIP SPRAY-ON BED LINER, COMPLETE		
448. REPLACE SPRAY-ON BED LINER, COMPLETE		
449. STRIP SPRAY-ON BED LINER, PARTIAL		
450. REPLACE SPRAY-ONBED LINER, PARTIAL		
451. R&I REAR BUMPER		
452. R&I BED ASSEMBLY		
453. REPLACE BED BOLTS, AS NEEDED		
454. R&I DROP-IN BED LINER		
455. R&I CAMPER SHELL		
456. R&I TONNEAU COVER		
457. REMOVE CAULKING AND SEAM SEALER		
458. REPLACE CAULKING AND SEAM SEALER		
459. REPLACE SELF LEVELING SEAM SEALER		
460. UNDERCOAT UNDERSIDE		

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461. CAVITY WAX		
462. SOUND DEADENER SPRAYABLE SEALER		
463. WELD-THRU PRIMER		
464. TEST FIT PARTS ATTACHED TO BED SIDE		
465. REPLACE BONDING FOAM, UNDERSIDE OF BED RAIL		
466. REPLACE BONDING FOAM, WHEEL-WELL TO BED SIDE PNL		
467. REPLACE FLARE FASTENERS		
468. REPLACE FLARE ADHESIVE SEAL		
469. CLEAN & RETAPE ADHESIVE MOLDING-S		
470. PULL BACK WIRE HARNESS		
471. STONE GUARD DECAL		
472. FEATHER & FILL CONTOUR REPAIR AREA		
473. FEATHER & FILL WELDS		
474. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
475. LOOSEN AND FREE RUSTED/STUCK BOLTS		
476. REPAIR CAP-RAIL FLANGE, REMOVAL DISTORTION		
477. EXPANSION FOAM (PER TUBE)		
478. REPAIR FRONT BED PANEL		
479. REPAIR INNER BED PANEL		
480. REPAIR REAR SILL PANEL		
481. SPOT PAINT INNER BED PANEL		
482. MASK WRAP WIRE HARNESS		
483. MASK BED INTERIOR		
484. MASK FOR PRIMER APPLICATION		
485. SPOT PAINT FRONT BED PANEL		
486. SPOT PAINT REAR SILL PANEL		
487. REFINISH TWO TONE BLACK OUT		
488. GRAVEL GUARD		
85 - VAN/SUV SIDE PANEL:		
489. PRE-PULL SIDE PANEL		
490. CAUTIONARY MEASURES TO PREVENT QUARTER GLASS DAMAGE		
491. GLASS OPEN FLANGE DAMAGE FROM CUT KNIFE, REPAIR		
492. QUARTER GLASS INSTALLATION KIT		
493. REMOVE CAULKING AND SEAM SEALER		
494. REPLACE CAULKING AND SEAM SEALER (PER TUBE)		
495. UNDERCOAT SIDE PANEL		
496. CAVITY WAX		
497. WELD-THRU PRIMER		
498. SOUND DEADENER SPRAYABLE SEALER		
499. EXPANSION FOAM (PER TUBE)		
500. CLEAN & RETAPE ADHESIVE MOLDINGS		
501. REPLACE WHEEL FLARE FASTENERS & ADHESIVE STRIP		
502. FABRICATE SIDE PANEL SLEEVES		
503. TEST FIT PARTS ATTACHED/ADJACENT TO SIDE PANEL		
504. R&I SPECIALITY INTERIOR		
505. PULL BACK WIRE HARNESS		
506. R&I SEAT-S		
507. R&I SEAT BELT-S		
508. RECOVER FREON		
509. EVACUATE & RECHARGE AC *SEPARATE FROM FRONT A/C*		

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510. R&I REAR HEATER/AC COMPONENTS		
511. PULL-BACK CARPET AND FLOOR INSULATION		
512. REAR SILL AT WELD AREA, REPAIR		
513. FILL & FEATHER WELDS		
514. INNER PANEL DISTORTION DUE TO ADHESIVE, REPAIR		
515. WHEEL OPEN INNER STRUCTURE, REPAIR		
516. CLEAN FILE AND DEBUR WELD AREA		
517. FILL & FEATHER CONTOUR REPAIR AREAS		
518. COBALT DRILL BIT (BORON-TRIP-UZI BOR)		
519. STONE GUARD DECAL		
520. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
521. MASK WRAP WIRE HARNESS		
522. MASK/BAG INTERIOR FOR PROTECTION		
523. MASK JAMBS & OPENINGS		
524. MASK FOR PRIMER APPLICATION		
525. SPOT PAINT FLOOR AT WELDS		
526. SPOT PAINT BACK SIDE OF ROCKER		
527. SPOT PAINT REAL SILL		
528. ROOF DRIP WELDS, DRESS		
529. REFINISH ROOF		
530. REFINSH TWO TONE BLACK OUT		
531. PREP CLADDING FOR "RAW" PROCESSING		
532. GRAVEL GUARD		
533. PULL BACK/ROPE-MASK SIDE PANEL GLASS MOLDING		
90 - DECK LID:		
534. ACCESS PULLING & CUTTING, ACCESS TO COMPONENTS		
535. R&I LICENSE PLATE		
536. REPAIR LICENSE PLATE		
537. DRILL FOR LICENSE PLATE BRACKET		
538. REPAIR DECK LID HINGES		
539. REPAIR HINGE MOUNT AREA		
540. TRIAL FIT AND POSITION		
541. R&I AUTO LOCK		
542. REFINISH TWO TONE BLACK OUT		
543. RE-CODE DECK LID CYLINDER		
544. SEAM SEAL INNER EDGE		
545. CAVITY WAX		
546. MINI BULBS		
547. WIRE HARNESS REPAIR		
548. DRILL TEMPLATE FOR SPOILER		
549. LOCK LINKAGE REPAIR		
550. PREP DECK LID CLADDING FOR "RAW" PROCESSING		
95 - REAR BODY PANEL:		
551. PRE-PULL REAR BODY PANEL		
552. REMOVE CAULKING AND SEAM SEALER		
553. REPLACE CAULKING AND SEAM SEALER		
554. UNDERCOATING REAR BODY PANEL		
555. CAVITY WAX		
556. COBALT DRILL BIT (BORON-TRIP-UZI BOR)		
557. SELF LEAVELING SEAM SEALER		

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558. WELD-THRU PRIMER		
559. SOUND DEADENER, SPRAYABLE SEALER		
560. R&I LICENSE PLATE		
561. REPAIR LICENSE PLATE		
562. DRILL FOR LICENSE PLATE BRACKET		
563. MOVE TO PROTECT OR R&I EXHAUST		
564. R&I SPARE TIRE AND TOOLS		
565. TEST FITS PARTS ATTACHED/ADJACENT TO BODY PANEL		
566. FEATHER & FILL CONTOUR REPAIR AREA		
567. BRAZING, COPPER SILIUM MIG BRAZING		
568. FEATHER & FILL WELDS		
569. REPAIR INNER SIDE OF BODY PANEL AT WELD AREAS		
570. REPAIR LEFT QUARTER PANEL REPAIR AT WELD AREA		
571. REPAIR RIGHT QUARTER PANEL REPAIR AT WELD AREA		
572. REPAIR FLOOR WELD DAMAGE		
573. REPAIR FLOOR		
574. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
575. WIRE HARNESS, REPAIR		
576. CLEAN FILE AND DEBUR WELD AREA		
577. WIRE HARNESS FASTENERS, REPLACE		
578. RE-CODE LOCK CYLINDER		
579. PULL BACK WIRE HARNESS		
580. WRAP/MASK WIRE HARNESS		
581. MASK BAG INTERIOR FOR REFINISH		
582. MASK JAMS AND EDGES OF BODY PANEL		
583. SPOT PAINT INNER SIDE OF ADJACENT PANELS AT WELD AREAS		
584. REFINISH BACK SIDE OF BODY PANEL (SECOND COLOR?)		
585. SPOT PAINT TOP SIDE OF FLOOR PANEL		
586. SPOT PAINT UNDERSIDE OF FLOOR PANEL		
587. SPOT PAINT INNER SIDES OF QUARTER PANELS AT WELD AREA		
588. REFINISH TWO TONE BLACK OUT		
100 - FLOOR:		
589. PRE-PULL FLOOR PANEL		
590. REMOVE CAULKING AND SEAM SEALER		
591. REPLACE CAULKING AND SEAM SEALER ***PER TUBE***		
592. UNDERCOAT		
593. CAVITY WAX		
594. WELD-THRU PRIMER		
595. COBALT DRILL BIT (BORON-TRIP-UZI BOR)		
596. SOUND DEADENER, SPRAYABLE SEALER (TWO TUBES)		
597. COLATERAL DAMAGE FROM THE REPAIR PROCESS (BUILD SEQUENCE)		
598. R&I EXHAUST		
599. R&I SPARE TIRE AND TOOLS		
600. TEST FIT PARTS ATTACHED/ADJACENT TO FLOOR PANEL		
601. R&I ELECTRONIC COMPONENTS AT FLOOR AREA (CD, AMP, SRS)		
602. R&I EMMISIONS COMPONENTS AT FLOOR AREA		
603. R&I TRUNK INTERIOR ***INDIVIDUAL COMPONENTS***		
604. PULL BACK WIRE HARNESS		
605. EXPANSION FOAM		
606. FEATHER & FILL AREAS ATTACHED BY WELDING		

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607. R&I BOLTED SUSPENTION *ALL COMPONENTS*****		
608. CROSSMEMBER AT WELD AREA, REPAIR/DRESS		
609. SIDE FLOOR EXTENSIONS, REPAIR		
610. FRAME RAIL FLANGE REPAIR AT WELD AREA		
611. WHEEL HOUSE(S) REPAIR AT WELD AREA		
612. CLEAN FILE AND DEBUR WELD AREA		
613. PULL BACK MASK LINES AND CABLES AT FLOOR AREA		
614. R&I FUEL TANK		
615. DRAIN FUEL FROM TANK		
616. WRAP MASK WIRE HARNESS		
617. MASK & PROTECT INTERIOR		
618. REFINISH TOP SIDE OF FLOOR		
619. REFINISH UNDERSIDE OF FLOOR		
620. SPOT PAINT UNDERSIDE ADJACENT PANELS AT WELD AREA		
621. CENTER FLOOR AT WELD AREA, REPAIR/DRESS		
622. SPOT PAINT CENTER FLOOR AREA		
623. SPOT PAINT CROSSMEMBER		
624. SPOT PAINT FLOOR EXTENSIONS		
625. SPOT PAINT RAILS AT WELD AREA, UNDERSIDE		
626. SPOT PAINT WHEEL HOUSE AT WELD AREA		
627. FLOOR TWO TONE AND/OR BLACK-OUT		
105 - PROTECTION & SAFETY:		
628. D&R HYBRID BATTERY		
629. HYBRID BATTERY PROTECTIVE STORAGE		
630. D&R BATTERY		
631. RESET ELECTRONIC MEMORY, RADIO		
632. RESET ELECTRONIC MEMORY, SEAT/STEERING WHEEL		
633. DIAGNOSE SRS DISPLAY		
634. DISABLE/ENABLE SRS		
635. DIAGNOSE ALARM CODES		
636. MASK ELECTRONIC CONNECTIONS		
637. R&I FUEL TANK		
638. DRAIN FUEL FROM TANK		
110 - PAINT PREP:		
639. REMOVE OIL , TAR & GREASE		
640. REMOVE CORROSION PROTECTION MATERIAL		
641. RESTORE CORROSION PROTECTION		
642. REMOVE MOLDING ADHESIVE		
115 - REFINISH PROCESS:		
643. DIFFICULT COLOR, TINTING & TESTING (<i>INACCURATE VARIANCE</i>)		
644. MASK FOR PRIMING		
645. SPOT PAINT CORESUPPORT AFTER INSTALLED (<i>SECOND PAINT</i>)		
646. SPRAY OUT TEST PANEL		
647. SPRAY OUT LET-DOWN PANEL FOR THREE STAGE		
648. SPRAY OUT LET-DOWN PANEL FOR TRANSPARENT COLOR		
649. COLOR TINT & TEST TO BLENDABLE MATCH		
650. COLOR TINT SECOND COLOR		
651. GRAVEL GUARD FIRST PANEL		
652. GRAVEL GUARD SECOND PANEL		

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653. GRAVEL GUARD THIRD PANEL		
654. GRAVEL GUARD SPRAY-OUT TEST PANEL		
655. HAZARDOUS WASTE DISPOSAL		
656. UNDERSIDE COLOR TINTING & TESTING (CORESUPPORT & TRUNK AREAS)		
657. UNDERSIDE COLOR REFINISH		
658. COVER VEHICLE (FOR REFINISHING ONE TIME)		
659. REFINISHING JAMBS (SEPARATE COLOR THAN EXTERIOR-EACH COLOR*)		
660. MASKING JAMBS		
120 - COLOR-SAND & POLISH:		
661. COLOR SAND & POLISH, 1 ST PANEL (MATERIALS AND LABOR)		
662. COLOR SAND & POLISH, 2 ND PANEL (MATERIALS AND LABOR)		
663. COLOR SAND & POLISH, 3 RD PANEL (MATERIALS AND LABOR)		
664. COLOR SAND & POLISH, 4 TH PANEL (MATERIALS AND LABOR)		
665. COLOR SAND & POLISH, 5 TH PANEL (MATERIALS AND LABOR)		
666. COLOR SAND & POLISH, 6 TH PANEL (MATERIALS AND LABOR)		
667. COLOR SAND & POLISH, 7 TH PANEL (MATERIALS AND LABOR)		
668. COLOR SAND & POLISH, 8 TH PANEL (MATERIALS AND LABOR)		
669. FINAL WASH TO REMOVE COMPOUND RESIDUE		
670. POLISH RIM SKUFF		
671. SPOT REFINISH RIM		
125 - STRIPES:		
672. REMOVE OLD STRIPES WITH ERASER WHEEL USE		
673. RESTRIPE WITH FINE-LINE TAPE		
674. RESTRIPE PAINTED-ON		
675. FACTORY STRIPE INSTALLATION		
130 - GLASS:		
676. CAUTIONARY STEPS TO PREVENT DAMAGE		
677. REPAIR FLANGE DAMAGE FROM CUT KNIFE		
678. TEST FIT GLASS		
679. REMOVE URETHANE RESEDUE AT PINCHWELD, FULL CUT OUT		
680. BROKEN GLASS CLEAN-UP (SEATS & CARPET)		
681. BROKEN GLASS CLEAN-UP (VENTS) **R&I DASH NEEDED????***		
682. URETHANE ADHESIVE REMOVAL		
683. URETHANE GLASS KIT		
135 - FRAME SET UP:		
684. UNIBODY CLAMP SYSTEM		
685. FULL FRAME CLAMP SYSTEM		
686. NON-DRIVE VEHICLE (NO START)		
687. DISABLE VEHICLE (DOES NOT ROLL)		
688. LIFTED/LOWERED VEHICLE		
689. TRAM VEHICLE TO DETERMINE IF MOVEMENT EXISTS		
690. INSTALL MECHANICAL MEASURING SYSTEM		
691. ELECTRONIC MEASUREMENT DOCUMENT		
692. R&I ROCKER MLDGS- ACCESS TO CLAMP AREA		
693. ACCESS PULLING TO FACILITATE TEAR DOWN		
694. R&I INTERFERING WIRES, TUBING/LINES, EXHAUST		
695. R&I SUSPENSION/STEERING, PARTIAL		
696. REPAIR CLAMP SCARING ON ROCKER FLANGE		
697. REPAIR ANCHOR DAMAGE AT LOCKING POINTS		



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698. REPAIR PROTECTIVE COATING AT ROCKER		
699. PAINT ROCKER FLANGE		
140 – FRAME REPLACEMENT		
700. MEASURE USED FRAME		
701. CLEAN USED FRAME		
702. DISPOSE OF VIN / REGISTER NEW FRAME VIN		
703. CUT UP DAMAGED FROM FOR DISPOSAL		
704. CUT UP AND DISPOSE OF CRATE		
705. BLEED BRAKES		
706. DRAIN BRAKE FLUID		
707. DRAIN RADIATOR		
708. BLEED RADIATOR SYSTEM		
709. RADIATOR COOLANT		
710. R&I TRANS COOLER		
711. TRANSMISSION FLUID		
712. R&I HEATER HOSES		
713. SET OR ADJUST PARKING BRAKE		
714. EVACUATE AND RECHARGE A/C SYSTEM		
715. A/C OIL AND FREON		
716. A/C “O” RINGS		
717. REMOVE PRESSURE FROM AB AND RECHARGE ABS SYSTEM		
718. DIAGNOSE ABS (SCAN TOOL)		
719. R&I HEAT SHIELDS		
720. R&I SPARE TIRE CARRIER		
721. R&I BED SHELL (IF EQUIPPED)		
722. R&I BED LINER (IF EQUIPPED)		
723. 4 WHEEL ALIGNMENT		
724. REMOVE & STORE FUEL FROM GAS TANK		
725. R&I FUEL NECK ASSEMBLY		
726. R&I WHEELS		
727. R&I BOTTOM ENGINE SHIELDS AND SKID PLATES		
728. R&I ABS SENSORS		
729. R&I ABS WIRE LOOM		
730. R&I TRAILER HITCH AND WIRES		
731. R&I EXHAUST SYSTEM AS ASSEMBLY		
732. R&I EXHAUST SYSTEM AS COMPONENTS		
733. R&I 4 WHEEL DRIVE SHAFT		
734. R&I REAR DRIVE SHAFT ON 4 WHEEL DRIVE AS COMPONENTS		
735. R&I RIDE HEIGHT SENSORS		
736. CALIBRATE RIDE HEIGHT		
737. R&I RIDE HEIGHT WIRE LOOM		
738. O/H SUSPENSION PARTS THAT ARE DAMAGED		
739. R&I PARTS THAT CANNOT BE REMOVED AS ASSEMBLY		
740. R&I CARPETS FOR ACCESS		
741. FREIGHT FOR FRAME		
742. D&R BATTERY		
743. RESET RADIO CODES		
744. R71 FAN		
745. R&I FAN SHROUD		
746. R&I MOUNTING CLIPS AND BRACKETS		

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747. REPLACE BROKEN CLIPS		
748. R&I FENDER SHIELDS OR LINERS		
749. R&I (M) COMPONENTS ATTACHED TO FRAME		
750. D&R BRAKE LINE TO BRAKE BOOSTER		
751. DRAIN POWER STEERING FLUID		
752. REPLACE POWER STEERING FLUID		
753. REPLACE WASHER FLUIDS		
754. ROAD TEST		
755. PRE-SCAN VEHICLE		
756. POST-REPAIR SCAN		
757. RESET ALL TROUBLE CODES		
758. DISABLE AND ENABLE SRS SYSTEM		
759. R&I CENTER CONSOLE TO DISCONNECT SHIFTER		
760. DISCONNECT STEERING SHAFT		
761. R&I ELECTRICAL SUSPENISION COMPONENTS		
762. TOW TO DEALER TO RESET CODES		
763. SET BODY ON ROLLING BENCH (OR FRAME BENCH)		
764. RESET ELECTRICAL COMPONENTS		
765. REPLACE PAG OIL FOR RIDE HEIGHT COMPRESSOR		
766. RIDE HEIGHT COMPRESSOR TANK		
767. HAZ WASTE DISPOSAL		
768. ADDITIONAL WORK SPACE (2 ND STALL)		
769. R&I OIL COOLER		
770. R&I HYDRAULIC/ELECTRIC ANIT-SWAY BAR		
771. BLEED AND DRAIN HYDROLIC SWAY BAR		
772. CHECK FLUIDS (ENGINE, TRANS, TRANSFER CASE, FRONT AND/OR REAR DIFF.)		
773. R&I RUNNING BOARDS		
774. R&I WINCH		
775. R&I BRUSH BAR		
776. R&I EMISSIONS COMPONENTS		
777. INITIALIZATION OF WINDOWS, SUN ROOF, DOOR LOCKS, ETC.		
778. RESET STEERING ANGLE SENSOR		
779. R&I HEADLAMPS FOR ACCESS		
780. AIM HEADLAMPS		
781. R&I GRILLE		
782. R&I CORE SUPPORT FOR ACCESS (BOLT ON TYPE)		
783. R&I RADIATOR		
784. R&I A/C CONDENSOR		
785. R&I POWER STEERING COOLER		
786. CAP OFF A/C LINES		
787. CAP OF EVAPORATOR		
788. STRAIGHTEN / PULL DAMAGED FRAME FOR REMOVAL ACCESS		
789. REPLACE DAMAGED MOUNTING HARDWARE		
790. REPAIR MOUNTING LOCATIONS ON CAB / BED		
791. R&I FUEL LINES ATTACHED TO FRAME		
792. CORROSION PROTECTION (AS PER OEM GUIDELINES)		
793. R&I BRAKE CALIPERS		
794. R&I SPEED SENSORS		
795. CALIBRATE ABS SYSTEM		
796. R&I AUX FUEL TANK		
797. D&R DRIVE SHAFTS FROM FRONT SUSPENSION (FRONT WHEEL DRIVE VEH)		

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798. R&I ABS LINES		
145 - FRONT END DAMAGE:		
799. PRE-PULL TO FACILITATE TEAR DOWN		
800. PULL & REPOSITION CORESUPPORT		
801. REPAIR FRONT BUMPER WELDED MOUNTING BRACKET (EACH)		
802. CORRECT UPPER RAIL/APRON SWAY, LEFT		
803. CORRECT UPPER RAIL/APRON SWAY, RIGHT		
804. CORRECT UPPER RAIL/APRON HEIGHT, LEFT		
805. CORRECT UPPER RAIL/APRON HEIGHT, RIGHT		
806. CORRECT UPPER RAIL APRON LENGTH/MASH, LEFT		
807. CORRECT UPPER RAIL APRON LENGTH/MASH, RIGHT		
808. REPAIR AND CORRECT DIAMOND CONDITION		
809. MEASURE SUSPENSION X-1 CAR-O-LINER		
810. POSITION AND ALIGN FRONT CROSSMEMBER		
811. POSITION AND ALIGN CENTER CROSSMEMBER		
812. POSITION AND ALIGN REAR CROSSMEMBER		
813. R&I COMPONENTS MOUNTED TO APRON-S		
814. LOOSEN BRACKETS FOR PULL AND REPAIR		
815. REPAIR LEFT LEAF SPRING BRACKET/SHACKLE		
816. REPAIR RIGHT LEAF SPRING BRACKET/SHACKLE		
817. PULL LEFT RAIL, SWAY		
818. PULL RIGHTRAIL, SWAY		
819. PULL LEFT RAIL LENGTH		
820. PULL RIGHT RAIL LENGTH		
821. REPAIR LEFT RAIL MASH (<i>CUT OUT MASH TO REPAIR</i>)		
822. REPAIR RIGHT RAIL MASH (<i>CUT OUT MASH TO REPAIR</i>)		
823. PULL LEFT RAIL HEIGHT		
824. PULL RIGHT RAIL HEIGHT		
825. CORRECT LEFT RAIL TWIST		
826. CORRECT RIGHT RAIL TWIST		
827. PULL ENGINE/SUSPENSION CROSSMEMBER		
828. PULL & POSITION APRON, LEFT		
829. PULL & POSITION APRON, RIGHT		
830. PULL & POSITION STRUT TOWER, LEFT		
831. PULL & POSITION STRUT TOWER, RIGHT		
832. VECTOR INWARD RAIL TWIST ** (EACH RAIL) **		
833. R&I ENGINE (FOR ACCESS)		
834. R&I TRANSMISSION (FOR ACCESS)		
150 - SIDE DAMAGE:		
835. ACCESS PULLING TO FACILITATE TEAR DOWN		
836. PULL & POSITION COWL FOR REPAIR		
837. PULL & POSITION DASH REINFORCEMENT BAR		
838. PULL & POSITION PILLAR, OUTBOARD (<i>EACH OF A,B & C PILLARS</i>)		
839. PULL & POSITION PILLAR, REARWARD (<i>EACH OF A,B & C PILLARS</i>)		
840. PULL & POSITION PILLAR, FORWARD (<i>EACH OF A,B & C PILLARS</i>)		
841. PULL & POSITION PILLAR, TWIST (<i>EACH OF A,B & C PILLARS</i>)		
842. SQUARE DOOR OPENING (<i>TRIAL FIT DOOR AS NEEDED</i>)		
843. PULL & POSITION ROCKER		
844. PULL & POSITION CENTER FLOOR		
845. LOOSEN FULL FRAME BRACKETS		

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846. CORRECT PILLAR INNER REINFORCEMENT (EACH OF A,B & C PILLARS)		
847. CORRECT PILLAR INNER PANEL (EACH OF A,B & C PILLARS)		
848. CORRECT ROCKER INNER REINFORCEMENT		
849. CORRECT ROCKER INNER PANEL		
850. PULL QUARTER PANEL POST		
851. PULL/CORRECT PACKAGE TRAY AREA		
155 - REAR END DAMAGE:		
852. ACCESS PULLING TO FACILITATE TEAR DOWN		
853. REPAIR REAR FRAME RAIL WELDED BRACKET (EACH SIDE)		
854. REPAIR REAR LEAF SPRING BRACKET/SHACKLE (EACH SIDE)		
855. PULL & POSITION REAR BODY PANEL		
856. PULL REAR FLOOR PAN, LENGTH		
857. PULL REAR FLOOR PAN, LEVEL		
858. PULL LEFT RAIL, LENGTH		
859. PULL RIGHT RAIL, LENGTH		
860. PULL LEFT RAIL, SWAY		
861. PULL RIGHT RAIL, SWAY		
862. PULL LEFT RAIL, HEIGHT		
863. PULL RIGHT RAIL, HEIGHT		
864. PULL LEFT RAIL, TWIST		
865. PULL RIGHT RAIL, TWIST		
866. PULL & POSITION REAR CROSSMEMBER		
867. PULL & POSITION LEFT QUARTER (FOR REPAIR)		
868. PULL & POSITION RIGHT QUARTER (FOR REPAIR)		
869. PULL & POSITION LEFT INNER QUARTER STRUCTURE		
870. PULL & POSITION RIGHT INNER QUARTER STRUCTURE		
871. PULL & POSITION SUSPENSION MOUNTING POINTS		
872. CORRECT DIAMOND CONDITION		
873. CORRECT RAIL PERCH AT SPRING MOUNT AREA		
874. REMOVE TWIST IN CENTER SECTION OF FULL FRAME		
875. CORRECT BODY/CAB MOUNTS		
876. CORRECT BODY TO FRAME ISOLATOR MOUNTS		
877. MEASURE SUSPENSION CONTROL POINTS		
878. CORRECT BED MOUNTS		
879. PULL & POSITION BED X-MEMBER		
880. PULL & POSITION BED FLOOR		
881. PULL & POSITION BED SIDE PANEL, OUTER (FOR REPAIR)		
882. PULL & POSITION BED INNER PANEL		
883. PULL & POSITION BED FRONT PANEL		
884. CORRECT TAIL GATE OPENING, SQUARE		
885. CORRECT RAIL MASH		
886. CORRECT BUMPER BRACKET MOUNT AREA		
887. VECTOR REPAIR INWARD RAIL TWIST (EACH RAIL)		
160 - FLOOR ANCHOR PULLING SYSTEM:		
888. FLOOR ANCHOR CLAMP SYSTEM SET UP		
889. FLOOR PULL CORESUPPORT		
890. FLOOR PULL APRON		
891. FLOOR PULL UPPER RAIL		
892. FLOOR PULL QUARTER LOCK POST/DOG LEG		
893. FLOOR PULL QUARTER WHEEL HOUSE		

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894. FLOOR PULL BACK PANEL		
895. FLOOR PULL BUMPER MOUNT AREA		
165 - THEFT/VANDALISM:		
896. DETAIL/CLEANUP		
897. MECHANICAL CHECK		
898. ROAD TEST		
899. CHECK FLUIDS AND LAMPS		
900. TOP OFF FLUIDS		
901. COPY KEY FROM CYLINDER		
902. CODE IGNITION CYLINGER		
903. CODE DOOR CYLINDER		
170 - DETAIL/CLEAN-UP:		
904. DETAIL		
905. PAINT SEALANT (COMPLETE) LIFETIME WARANTY		
906. PAINT SEALANT (PER PANEL)		
907. CLEAN INTERIOR FROM SPILLS CAUSED BY LOSS		
908. CLEAN & DETAIL , POLISH AND SWIRL MARK REMOVAL		
909. CLEAN FOR DELIVERY		
910. CLEAN UP DEPLOYED AIR BAG RESIDUE		
175 - TOW, STORAGE & ADMINISTRATION:		
911. TEAR DOWN CHARGE		
912. RR&I ALL LKQ/USED COMPONETS		
913. INSIDE STORAGE		
914. OUTSIDE STORAGE		
915. ADMINISTRATIVE FEE - TYPICAL		
916. ADMINISTRATIVE FEE - EXTENSIVE		
917. REPLACE ALUMINUM SILICATE STONE		
918. REPLACE ALUMINUM PRIMER		
919. REPLACE CLEANING SOLUTION (ALL WELDED AND BONDED PANELS)		
920. REMOVE HOT WAX COATING		
921. INSTALL FLOWABLE HOT SEALER		
922. REPLACE FLOW FORM BOLT		
923. REPLACE PUNCH INSERT		
924. INSTALL PYROSIL COATING AND ADHESION		
925. REPLACE BELT SANDER BELT KIT		
926. REPLACE INJECTION ADHESION REMOVER		
927. PREP ALUMINUM COUPONS AND PREP TIME (PREP WELD)		
928. REPLACE ALUMINUM CUTTING WHEEL		
929. RECHARGE VEHICLE FOR DELIVERY		
930. REPLACE CUTTING TOOL LUBRICATION KIT		
931. REPLACE ALUMINUM CLEANING BRUSH		
932. REPLACE SPR'S ,FLOW FORM, CLINCH, HUCK PINS AND BLIND RIVETS		
933. REPLACE TWO PART STRUCTURAL ADHESIVE		
934. REPLACE BODY SAW BLADE		
935. LAZER WELD REMOVER TWIST		
936. REPLACE HOS COBALT BIT		
937. ALUMINUM SUBSTRAIGHT LABOR RATE		
938. ALUMINUM SUBSTRAIGHT STRUCTURAL RATE		

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939. REPLACE FANTHEL COATING		
940. DYE PENETRANT CHECK COATING (WELD TEST)		
941. REPAIR FLANGE CLEAVES AFTER RIVET BOND APPLICATION		
942. ALUMINUM EPOXY PRIMER APPLICATION		
943. REPLACE ALUMINUM REPAIR CUPS		
944. REPLACE DACREMET PRIMER SEALER		
945. REPAIR ALUMINUM FLANGE		
946. SPR RIVET KIT		
947. SPR PUNCH RIVET PRESSURE RING		
948. EXPANSION FOAM		
949. FABRICATE SLEEVE INSERT		
950. FLOW FORM RIVET SET		
951. STRUCTURAL ADHESIVE		
952. SELF LEAVING SEAM SEALER		
953. REPLACE ALUMINUM WIRE FOR MAG WELDER		
954. ADHESIVE CLEAN UP (BENCH)		
955. ALUMINUM PULL PINS		
956. REPLACE NON-CONDUCTIVE STRUCTURAL URETHANE		
957. JIG BENCH SET UP (LOWER)		
958. JIG BENCH SET UP (UPPER)		
959. JIG RENTAL (PLUS SHIPPING BOTH WAYS)		
960. JIG BENCH (SIDE GANTREY)		
961. JIG BENCH DOWNTIME (WAITING ON APPROVAL, JIGS OR PARTS)		
962. DIAG REFERENCE CODES		
963. VOLTAGE TEST (PRIOR TO REPAIRS)		
964. BLEED COOLING SYSTEM		
965. A/C CHARGE		
966. COOLING FAN TEST		
967. RE-SET INSTRUMENT CLUSTER		
968. DISABLE BATTERY LOOP		
969. RE-SET AIR SUSPENSION		
970. RE-SET TPMS		
971. RIDE HEIGHT TEST (MAY REQUIRE MULTIPLE TESTS)		
972. DE-GAS AIR SUSPENSION		
973. INSPECT AND CHECK WATER PUMPS (EACH PUMP)		
974. R&I CABIN FILTER BEFORE REFINISH		
975. RECALIBRATE WINDOW SYSTEMS		
976. SEAM SEAL DOOR		
977. SEAM SEAL LIFTGATE		
978. SEAM SEAL HINGE		
979. R&I REAR SUSPENSION WITH (BATTERY R&I ACCESS)		
980. CAMERA AND RADAR RECALIBRATION TEST		

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Labor Category Legend – By Color:

- Body
- Paint
- Structural
- Mechanical
- Detail
- Other

981. YF 1234 REFRIGERANT (PER POUND)		
982. ALUMINUM WIRE KIT PER PANEL		
983. WELDING WIRE		
984. COBALT BIT PACK		
985. MIG BRAZING KIT		
986. CAVITY WAX INSTALLATION PER PANEL		
987. RESET ELECTRONICS		
988. MASKING FOR APPLYING DYE PENENTRANT (EACH PANEL)		
989. CHECK FOR CRACKS USING DYE PENENTRANT		
990. APPLY EPOXY PRIMER COAT		
991. SECONDARY CLEANING FOR OXIDE REMOVAL (PER PANEL)		
992. HEATING/BAKING HARDENED ALUMINUM TO LOOSEN ADHESIVE		
993. CLEANING PREP AREA OF ADHESIVE (PRIOR TO DRYING)		
994. REMOVAL OF ELECTRONICS WITH 300 MM OF WELDING ZONE		
995. RESETTING AND DIAGNOSIS OF ELECTRONICS		
996. COUNTER SINK ALUMINUM FOR RIVET APPLICATION (PER RIVET)		
997. REMOVE STRUCTURAL ADHESIVE ADJACENT PANELS (PER PANEL)		
998. CALIBRATE AND MEASURE METAL THICKNESS FOR CORRECT DIAMETER		
999. FABRICATE AND PUNCH HOLE FOR FREE FLOW RIVET (PER HOLE)		
1000. ADHESIVE "WET TIME" ON FIXTURE BENCH (CELETTE-CAR-BENCH-CAROLINER)		
1001. APPLY NON-DIELECTRIC ADHESIVE TO GLASS AREAS		
1002. CLEANING AND DEGREASING PANEL(S) PRIOR TO ADHESIVE INSTALLATION		
1003. BUILD SEQUENCE ON ADJACENT ALUMINUM PANELS (PER PANEL)		
1004. APPLYING HEATING SOURCE AND MONITORING PANEL(S) DURING REPAIR PROCESS		
1005. TEST FITTING PRIOR TO INSTALLING PART (PER PANEL)		
1006. SECONDARY MEASUREMENT PRIOR TO BONDING ADHESIVE APPLICATION		
1007. CONSTRUCTING SLEEVE OR BACKER PLATE FOR PANEL REPLACEMENT		
1008. REMOVE DAMAGED PARTS FOR REPAIR/REPLACEMENT ACCESS		
1009. ADVANCED CHARGES		
1010. TOW FEE TO DEALER		
1011. TOW FEE BACK FROM DEALER, RETURN		
1012. IMMOBILE VEHICLE OR PART, YARD SERVICE FEE (FORK LIFT USE)		
1013. INOPERATIVE VEHICLE (NO START/NO KEYS)		
1014. RELOCATION FEE		
1015. VEHICLE PICKUP SERVICE FEE		
1016. FLUID SPILL CLEAN UP FEE (ADD FOR ABSORBENT MATERIAL)		
1017. VEHICLE DISPOSAL FEE		
1018. RESTOCKING FEE'S		
1019. PROTECT INTERIOR (ADD FOR PLASTIC WRAP MATERIAL)		
1020. CUSTOMER ASSISTANCE FEE (GATHERING OF PERSONAL ITEMS)		
1021. AFTER HOURS RELEASE FEE		
1022. VEHICLE PROCESSING FEE (DMV)		
180 - FINAL BILL/MISCELLANEOUS:		
1023. SHIPPING/TRANSPORTATION CHARGES		
1024. TIRE DISPOSAL FEE		
1025. RECHARGING FEE		
1026. BATTERY DISPOSAL FEE		
1027. OIL DISPOSAL FEE		
1028. SOLID WASTE DISPOSAL FEES		
1029. VISUAL DAMAGE ESTIMATE (NO-REPAIR/O.R.CUSTOMER)		

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Labor Category Legend – By Color:

- Body
- Paint
- Structural
- Mechanical
- Detail
- Other

1030. FINAL BILL, AUTHORIZATION TO PAY SECURED		
1031. MINIMUM DISASSEMBLE FEE		
1032. NEED TEAR DOWN FOR COMPLETE ESTIMATE		
1033. TOTAL LOSS ADMINISTRATION FEE		

Preliminary Estimate

RO Number: 8075

2013 AUDI A6 QUATTRO PRESTIGE 4D SED 6-3.0L-SC

Line	Oper	Description	Part Number	Qty	Extended Price \$	Labor	Paint
1	#	Pre-measure suspension		1		1.0 M	
2	#	Pre-measure unibody		1		1.0 F	
3	#	Unibody setup		1		4.0 F	
4	#	Pre-pull panel for removal		1		1.0 F	
5	#	Rpr Mounting locations				1.0	1.0
6	RADIATOR SUPPORT						
7	R&I	Front deflector				0.3	
8	R&I	Rear deflector				0.3	
9	ELECTRICAL						
10	#	CDS Astech pre-repair scan		1	159.53 T	0.5 M	
11	#	D&R battery		1		0.3 M	
12	#	R&I Wiring		1		1.0 M	
13	#	R&I Electronics		1		0.5 M	
14	R&I	RT Blind spot radar				m 0.3 M	
15	R&I	LT Blind spot radar				m 0.3 M	
16	*	R&I Mount panel				<u>0.8</u> M	
17	#	Reset electronic memory functions		1		0.5 M	
18	#	Test drive and normalize functions		1		0.5 M	
19	#	Subl Harmony Audi +33%		1	538.64 X		
20	WHEELS						
21	*	R&I RT/Front R&I wheel				m <u>0.2</u> M	
22	*	R&I LT/Front R&I wheel				m <u>0.2</u> M	
23	*	R&I RT/Rear R&I wheel				m <u>0.2</u> M	
24	*	R&I LT/Rear R&I wheel				m <u>0.2</u> M	
25	WINDSHIELD						
26	Repl	Windshield Audi, w/o head up display w/driver assist pkg	4G0845099GNVB	1	811.00	2.8	
27	#	Clean old adhesive from body (large)		1		0.5	
28	#	Repl 2K Window adhesive D004660M2		1	81.32		
29	#	Repl Window primer D00920002		1	9.80		
30	RESTRAINT SYSTEMS						
31	R&I	RT Head air bag to 5/25/14				m 0.5 M	
32	R&I	RT Outer belt assy beige from 12/12				0.6 M	
33	#	Repl Air Bag Attachment Kit	4G8898803	1	53.00	0.5	
34	#	Repl Air Bag Attachment retainer clip	4G0880127	2	4.00		
35	SEATS & TRACKS						
36	Repl	RT Seat frame grommet	4L0886373	1	3.00		
37	Repl	LT Seat frame grommet	4L0886373	1	3.00		
38	ROOF						
39	Blnd	Roof panel					1.6

Preliminary Estimate

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2013 AUDI A6 QUATTRO PRESTIGE 4D SED 6-3.0L-SC

40	R&I	RT Roof molding				0.5
41	R&I	LT Roof molding				0.5
42	Repl	RT Roof molding clip	8K0853585C	12	20.40	
43	Repl	LT Roof molding clip	8K0853585C	12	20.40	
44	Repl	RT Roof molding retainer clip	8K0853929B	3	21.00	
45	Repl	LT Roof molding retainer clip	8K0853929B	3	21.00	
46	Repl	RT Roof molding rivet from 2/13	N91201401	2	2.00	
47	Repl	LT Roof molding rivet from 2/13	N91201401	2	2.00	
48	R&I	R&I sunroof assy				1.6
49	R&I	R&I headliner				4.2
50	Repl	Headliner clip	8D0867549C	15	39.00	
51	R&I	RT Sunvisor beige				0.3
52	R&I	LT Sunvisor beige				0.3
53	*	R&I LT Grip handle front beige				<u>0.2</u>
54	Repl	LT Sunvisor cap silver	4G0857621EP5	1	7.60	
55	Repl	LT Visor bracket cap silver	4G0857563EP5	1	7.80	
56	*	Repl RT Grip handle front silver	8R0857607BEP5	1	<u>85.00</u>	0.2
57	*	Repl RT Grip handle rear silver	8R0857608AEP5	1	<u>93.50</u>	0.2
58	Repl	LT Grip handle rear silver	8K0857607CEP5	1	85.00	0.2
<hr/>						
59	PILLARS, ROCKER & FLOOR					
60	Blnd	LT Uniside assy				3.3
61	*	Rpr RT Aperture panel			s	<u>2.0</u>
62		Add for Clear Coat				1.6
63	R&I	RT Rocker molding A6 w/S-line pkg				1.4
64	R&I	LT Rocker molding A6 w/o S-line pk				1.4
65	Repl	RT Rocker molding mount kit	4G0898909	1	53.00	
66	Repl	LT Rocker molding mount kit	4G0898909	1	53.00	
67	R&I	RT Wndshld plr trim beige				Incl.
68	R&I	LT Wndshld plr trim beige				Incl.
69	R&I	RT Cowl trim beige				0.3
70	R&I	LT Cowl trim beige				0.3
71	R&I	RT Pillar cover beige				0.3
72	R&I	LT Pillar cover beige				0.3
73	R&I	RT Upr ctr plr trim w/comfort AC beige				0.3
74	R&I	LT Upr ctr plr trim w/comfort AC beige				0.3
75	R&I	RT Lwr ctr plr trim beige				0.5
76	R&I	LT Lwr ctr plr trim beige				0.5
77	R&I	RT Rear sill plate beige				0.3
78	R&I	LT Rear sill plate beige				0.3
79	*	Repl RT Scuff plate A6, front, w/o lighting pkg w/o S-line pkg	4G0947406G	1	<u>284.00</u>	Incl.
80	#	Adhesive residue removal		1	1.00 X	0.2

Preliminary Estimate

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2013 AUDI A6 QUATTRO PRESTIGE 4D SED 6-3.0L-SC

81	*	Repl	RT Scuff plate A6, rear, w/o lighting pkg w/o S-line pkg	4G0947424G	1	<u>267.85</u>	Incl.	
82	#		Adhesive residue removal		1	1.00 X	0.2	
83		R&I	RT Front shield				0.2	
84		R&I	LT Front shield				0.2	
85		R&I	RT Center shield				0.3	
86		R&I	LT Center shield				0.3	
87		R&I	RT Rear shield				0.2	
88		R&I	LT Rear shield				0.2	
<hr/>								
89	FRONT DOOR							
90		R&I	RT R&I door assy				1.2	
91		R&I	RT W'strip on body				0.4	
92		R&I	LT W'strip on body				0.4	
<hr/>								
93	REAR DOOR							
94		R&I	RT R&I door assy				1.2	
95		Blnd	RT Door shell					1.1
96		R&I	RT W'strip on body from 11/14/11				0.4	
97		R&I	LT W'strip on body from 11/14/11				0.4	
98		R&I	RT Lower w'strip to 10/19/13				0.4	
99		R&I	RT Belt molding				0.2	
100		R&I	RT Handle, outside w/o chrome				0.5	
101		R&I	RT Striker				Incl.	
102		R&I	RT R&I trim panel				0.5	
<hr/>								
103	BACK GLASS							
104		R&I	Back glass Audi				Incl.	
105	#		Clean old adhesive from glass & body (large)		1		1.0	
106	#	Repl	2K Window adhesive D004660M2		1	81.32		
107	#	Repl	Window primer D00920002		1	9.80		
108		Repl	Back glass packing	8A5845515	4	9.60		
109		Repl	Back glass spacer	8D0845237	5	12.00		
110		Repl	Reveal molding	4G5853305	1	255.00	Incl.	
<hr/>								
111	QUARTER PANEL							
112		Repl	RT Quarter pnl assy	4G5809838	1	970.00	22.5 S	3.0
113			Overlap Major Non-Adj. Panel					-0.2
114			Add for Clear Coat					0.6
115	#		Add for Inside		1			1.0
116	#		Add for Sound Deadening		1	25.00 X	0.5	
117	*	Rpr	RT Outer wheelhouse				<u>3.0</u>	1.0
118			Add for Clear Coat					0.2
119	#		Protect & wrap removed components		1	20.00 X	0.5	
120	#		3M weld wrap		1	20.00 X	0.5	
121	#		Remove factory seam sealer		1		0.5	
122	#		Remove factory cavity wax		1		0.5	

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2013 AUDI A6 QUATTRO PRESTIGE 4D SED 6-3.0L-SC

123	#		Remove structural foam		1		1.0	
124	#		Remove e-coat from new flanges		1		1.0	
125	#		Repair, prep and clean old flanges		1		1.5	
126	#		Mask for weld-thru		1			0.6
127	#		Weld-thru primer application		1	12.00 X	0.5	
128	#		Test fit welded panel		1		1.5	S
129	#		Test fit adjacent panels		1		2.5	
130	#		Setup and test STRS welder		1		0.5	S
131	#		Setup and test MAG welder		1		0.5	S
132	#		HSS spot weld bit		1	50.00 X		
133	#	Repl	Cleaning solution D00940104		1	30.30		
134	#	Repl	2K Audi metal adhesive DA001730A2		1	86.00		
135	#	Repl	Foam D506KD1A3		1	93.00	1.0	
136	#		Adhesive cleanup		1		0.5	S
137	#		Epoxy primer application		1	20.00 X	1.0	
138	#		Setup and test seam sealer to duplicate OE		1		0.5	
139	#	Repl	Sealant Gray D 476 KD1 M2		1	40.90		
140	#	Repl	Preservation Wax AKR321M154		1	25.20	0.3	
141		R&I	RT Wheelhouse liner				Incl.	
142		R&I	LT Wheelhouse liner				0.5	
143		Repl	RT Wheelhouse liner grommet	4F0825429A	4	8.40		
144		Refn	Fuel door					0.3
145			Add for Clear Coat					0.1
146		R&I	Fuel door				Incl.	
147		Repl	Hinge	4G0809906C	1	70.00	0.6	
148		R&I	RT Window molding				0.4	
149		R&I	LT Window molding				0.4	
150		Repl	RT Window molding clip	8K0853929B	3	21.00		
151		Repl	LT Window molding clip	8K0853929B	3	21.00		
152		Repl	RT Window molding rivet	N91019701	3	2.70		
153		Repl	LT Window molding rivet	N91019701	3	2.70		
154		R&I	RT Qtr glass Audi				Incl.	
155		R&I	LT Qtr glass Audi				2.0	
156	*	Rpr	RT Inner panel (HSS)				<u>1.0</u>	1.0
157			Add for Clear Coat					0.2
158	*	Rpr	RT Lock plr reinf				<u>1.0</u>	<u>1.0</u>
159	*		Add for Clear Coat					0.2
160	*	Rpr	RT Inner wheelhouse				<u>1.5</u>	0.7
161			Overlap Minor Panel					-0.2
162			Add for Clear Coat					0.1
163		R&I	RT Qtr glass trim beige from 11/14/11				Incl.	
164		R&I	LT Qtr glass trim beige from				0.2	

Preliminary Estimate

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2013 AUDI A6 QUATTRO PRESTIGE 4D SED 6-3.0L-SC

11/14/11

165	R&I	RT Upper qtr trim beige					Incl.	
166	R&I	LT Upper qtr trim beige					0.3	
167 REAR BODY & FLOOR								
168	*	Rpr	Rear body panel				<u>1.0</u>	1.5
169			Overlap Major Adj. Panel					-0.4
170	*		Add for Clear Coat					0.2
171	*	Rpr	Package tray				<u>1.0</u>	<u>1.0</u>
172	*		Add for Clear Coat					0.2
173	*	Rpr	RT Floor extn				<u>0.5</u>	0.5
174			Overlap Minor Panel					-0.2
175			Add for Clear Coat					0.1
176	R&I	Scuff plate					0.3	
177	R&I	Trunk lining					Incl.	
178	R&I	RT Trunk side trim					Incl.	
179	R&I	LT Trunk side trim					0.3	
180	Repl	RT Trunk side trim retainer	4B0863907A01C	2	4.40			
181	R&I	RT Compartment					0.3	
182 TRUNK LID								
183	R&I	R&I trunk lid					1.2	
184	Blnd	Trunk lid (ALU)						1.2
185	Repl	RT Hinge cover	4G59718229B9	1	27.00			
186	Repl	LT Hinge cover	4G59718219B9	1	27.00			
187	#	Repl	Hinge Cover rivet	4H0827310	2	4.40		
188	R&I	Weatherstrip					Incl.	
189	Repl	Emblem	4G58537422ZZ	1	75.00		0.2	
190	Repl	Nameplate "A6"	4F08537412ZZ	1	57.00		0.2	
191	Repl	Nameplate "3.0T"	4F0853743P2ZZ	1	57.00		0.2	
192	Repl	Nameplate "QUATTRO"	8H08537372ZZ	1	57.00		0.2	
193	#		Adhesive residue removal		3.00	X	0.4	
194	#		Measure and mfg templates				1.0	
195	R&I	Release handle w/camera w/front camera					0.3	
196	R&I	Trunk lid trim					0.3	
197	Repl	License bracket	4G58271139B9	1	130.00			
198 REAR LAMPS								
199	R&I	RT Tail lamp assy					Incl.	
200	R&I	LT Tail lamp assy					0.5	
201	R&I	RT Tail lamp assy					Incl.	
202	R&I	LT Tail lamp assy					Incl.	
203	R&I	RT License lamp					0.1	
204	R&I	LT License lamp					0.1	
205 REAR BUMPER								
206		O/H rear bumper					2.6	
207	Repl	Bumper cover w/reverse sensor	4G5807067DGRU	1	880.00		Incl.	3.0

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2013 AUDI A6 QUATTRO PRESTIGE 4D SED 6-3.0L-SC

208		Add for Clear Coat				1.2
209		Deduct for Rear Bumper R&I			-1.6	
210	Repl	Add for reverse sens	1		0.6	
211	* Repl	RT Upper guide	4G5807394	1	<u>38.00</u>	0.2
212	* Repl	LT Upper guide	4G5807393A	1	<u>38.00</u>	0.2
213	Repl	RT Lower guide	4G5807454B	1	30.00	0.2
214	MISCELLANEOUS OPERATIONS					
215	#	Cover steering wheel, seats and floor	1	5.00	X	
216	#	Pre-wash and degrease vehicle	1	10.00	X	0.5
217	#	Cover car for repairs	1	5.00	X	0.2
218	#	Cover car for interior	1	5.00	X	0.2
219	#	Wash & tack after repairs	1	5.00	X	0.3
220	#	Cover car for primer	1	5.00	X	0.2
221	#	Feather edge, prime and block welded seams	1			4.0
222	#	Wash & tack after blocking	1	5.00	X	0.3
223	#	Cover car for refinish	1	5.00	X	0.2
224	#	Match and tint exterior color	1			1.0
225	#	Spray out card for variant/tint	1			0.3
226	#	Match and tint interior color	1			0.5
227	#	Additional clear coat mix (each)	1			0.2
228	#	Mask L front door jamb	1			0.4
229	#	Mask R front door jamb	1			0.4
230	#	Mask L rear door jamb	1			0.4
231	#	Mask R rear door jamb	1			0.4
232	#	Mask L quarter opening/jamb	1			0.4
233	#	Mask R quarter opening/jamb	1			0.4
234	#	Mask trunk compartment/liftgate	1			0.4
235	#	Mask W/S opening	1			0.4
236	#	Mask Sunroof opening	1			0.4
237	#	Mask Back glass opening	1			0.4
238	#	Cover car for buffing/polishing	1	5.00	X	0.2
239	#	Remove paint process intrusion	1			6.4
240	#	Paint & body materials per Mitchell RMC	1	1,473.76	X	
241	#	Clean repair debris from vehicle/final wash	1	10.00	X	1.5
242		OTHER CHARGES				
243	#	Towing	1	415.85		
SUBTOTALS				7,991.17		105.9
						46.9

Preliminary Estimate

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2013 AUDI A6 QUATTRO PRESTIGE 4D SED 6-3.0L-SC

ESTIMATE TOTALS

Category	Basis	Rate	Cost \$
Parts			5,191.39
Body Labor	66.8 hrs @	\$ 55.00 /hr	3,674.00
Paint Labor	46.9 hrs @	\$ 55.00 /hr	2,579.50
Mechanical Labor	7.6 hrs @	\$ 110.00 /hr	836.00
Frame Labor	6.0 hrs @	\$ 85.00 /hr	510.00
Structural Labor	25.5 hrs @	\$ 85.00 /hr	2,167.50
Miscellaneous			2,383.93
Other Charges			415.85
Subtotal			17,758.17
Sales Tax	\$ 5,350.92 @	7.0000 %	374.56
Grand Total			18,132.73
Deductible			0.00
CUSTOMER PAY			0.00
INSURANCE PAY			18,132.73

VEHICLE

2019 VW Jetta SE Automatic SULEV 4D SED 4-1.4L Turbocharged Gasoline Gasoline Direct Injection Orange

VIN:	Interior Color:	Mileage In:	Vehicle Out:
License:	Exterior Color:	Mileage Out:	
State:	Production Date:	Condition:	Job #:

TRANSMISSION

Automatic Transmission

POWER

Power Steering

Power Brakes

Power Windows

Power Locks

Power Mirrors

Heated Mirrors

DECOR

Dual Mirrors

Tinted Glass

Console/Storage

Overhead Console

CONVENIENCE

Air Conditioning

Intermittent Wipers

Tilt Wheel

Cruise Control

Rear Defogger

Keyless Entry

Message Center

Steering Wheel Touch Controls

Telescopic Wheel

Climate Control

Backup Camera

RADIO

AM Radio

FM Radio

Stereo

Search/Seek

Auxiliary Audio Connection

SAFETY

Drivers Side Air Bag

Passenger Air Bag

Anti-Lock Brakes (4)

4 Wheel Disc Brakes

Front Side Impact Air Bags

Head/Curtain Air Bags

Hands Free Device

Blind Spot Detection

ROOF

Electric Glass Sunroof

SEATS

Bucket Seats

Leather Seats

Heated Seats

WHEELS

Aluminum/Alloy Wheels

PAINT

Clear Coat Paint

OTHER

Traction Control

Stability Control

Xenon Headlamps

Power Trunk/Gate Release

Get live updates at www.carwise.com/e/3DKJzW

Preliminary Estimate

RO Number:

2019 VW Jetta SE Automatic SULEV 4D SED 4-1.4L Turbocharged Gasoline Gasoline Direct Injection Orange

Line	Oper	Description	Part Number	Qty	Extended Price \$	Labor	Paint
open #		OEM information research		1	10.00 T	1.0 M	
		Note: >>>Non included operation, per Motors GTE G9: LABOR TIME DOES NOT INCLUDE: SPECIAL NOTATION: The items listed below apply to all labor procedures.					
		<ul style="list-style-type: none"> • Access to repair information/subscription cost • Repair information retrieval/lookup 					
open #		Pre-measure suspension		1		1.0 M	
		Note: >>>Req'd to determine which calibration method will be req'd for distance sensor. Report provided.					
3		FRONT BUMPER & GRILLE					
4		O/H front bumper				2.6	
5	*	Repl Bumper cover	17A807217GRU	1	535.50	Incl.	<u>2.8</u>
6		Add for Clear Coat					0.6
open *	Refn	Tow eye cap					<u>0.2</u>
open		Add for Clear Coat					0.1
9		Repl Bumper cover rivet	N90528204	2	2.60		
open		Repl Grille grille code 6KC,6KF	17A853651RIDJ	1	388.33	Incl.	
		Note: >>>Gouged/scratched from animal, invoice provided.					
open		Repl Emblem w/auto brake	3G0853601AJZA	1	70.00	Incl.	
		Note: >>>Gouged/scratched from animal, invoice provided.					
open		R&I Distance sensor				m 0.3 M	
open		Repl Aim distance sensor		1		1.0 M	
		Note: >>>Distance sensor must be aimed using digital protractor prior to bumper/grille installation.					
open		Repl LT Outer grille w/o fog lamps	17A8536659B9	1	88.33	Incl.	
		Note: >>>Gouged/scratched from animal, invoice provided.					
open		Repl RT Outer grille w/o fog lamps	17A8536669B9	1	88.33	Incl.	
		Note: >>>Gouged/scratched from animal, invoice provided.					
16		FRONT LAMPS					
17		Repl RT Headlamp assy w/o projector lens	17A941036A	1	860.00	0.4	
18		Aim headlamps				0.5	
19		Repl LT Headlamp assy w/o projector lens	17A941035A	1	860.00	0.4	
20		RADIATOR SUPPORT					
open		R&I RT Cross bar				0.3	
		Note: >>>R&I req'd to R&R headlamps.					
open		R&I LT Cross bar				0.3	
		Note: >>>R&I req'd to R&R headlamps					
23		HOOD					
24		R&I R&I hood assy				0.8	
open *	Rpr	Hood				<u>1.5</u>	2.6
		Note: >>>Hood gouged/scratched at edge in area of headlamp damage.					
26		Add for Clear Coat					1.0
open #		Feather edge, prime and block		1			0.5

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repair area

Note: >>>Non included operation, per Motors GTE G33:

PRIME & BLOCK

Prime & block (high build/primer-filler) is a required procedure that restores a repaired panel surface, including the joined areas of replaced welded panels, from 150-grit finish to NEW UNDAMAGED condition. It is MOTOR's position that prime and block is a refinishing process best reserved for the judgment of an estimator/appraiser following a thorough on-the-spot evaluation of the specific vehicle and damage in question.

28	FENDER							
29		Repl	RT Fender	17A821106A	1	208.33	2.1	2.0
30			Overlap Major Adj. Panel					-0.4
31			Add for Clear Coat					0.3
32			Add for Edging					0.5
33			Add for Clear Coat					0.1
open	#		Add for Underside		1			1.0

Note: >>>Non included operation, per Motors GTE G34:

UNDERSIDE COLORS

Refinish times presented in this guide are developed under the premise that the underside and jamb color is the same as the exterior body color. Some vehicle manufacturers use a different color for the engine compartment, trunk compartment and/or jamba. An additional paint mix is required if the underside and/or jamb color is a different color than the exterior body color. Clear coat (gloss or matte) will be required for base color coat applications. Some component backsides of vehicles may not be refinished; however, the OE replacement component may be supplied in a different E-coat color than the damaged vehicle. These factors should be considered when developing the estimate.

35		Repl	LT Fender	17A821105A	1	208.33	2.1	2.0
36			Overlap Major Adj. Panel					-0.4
37			Add for Clear Coat					0.3
38			Add for Edging					0.5
39			Add for Clear Coat					0.1
open	#		Add for Underside		1			1.0

Note: >>>Non included operation, per Motors GTE G34:

UNDERSIDE COLORS

Refinish times presented in this guide are developed under the premise that the underside and jamb color is the same as the exterior body color. Some vehicle manufacturers use a different color for the engine compartment, trunk compartment and/or jamba. An additional paint mix is required if the underside and/or jamb color is a different color than the exterior body color. Clear coat (gloss or matte) will be required for base color coat applications. Some component backsides of vehicles may not be refinished; however, the OE replacement component may be supplied in a different E-coat color than the damaged vehicle. These factors should be considered when developing the estimate.

open		Repl	RT Fender nut	N90817302	2	2.60		
			Note: >>>Invoice provided.					
open		Repl	LT Fender nut	N90817302	2	2.60		
			Note: >>>Invoice provided.					
43		Repl	RT Fender liner w/o fog lamps	17A805912E	1	85.00	Incl.	
44		Repl	LT Fender liner w/o fog lamps	17A805911C	1	85.00	Incl.	
45		R&I	Splash guard kit				0.4	

46	ELECTRICAL							
open	#		Install battery support device		1		0.3	M
			Note: >>>Req'd to maintain constant voltage during scan process.					
			Per Motors GTE G9:					
			Many OEMs recommend a pre- and post-repair diagnostic scan on all vehicles involved in a collision that could					

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reveal pre-accident or accident-related damage. Please refer to OEM position statement and repair procedures for more information. Due to the variety of scan tools used, both OEM and aftermarket, as well as the variation from vehicle to vehicle and repair to repair, MOTOR is unable to develop a time that accounts for these different scenarios. Therefore, MOTOR recommends an on-the-spot evaluation to determine an appropriate estimated time to perform diagnostic scans for each repair.

open	#	CDS Astech pre-repair scan	1	159.53 T	0.5 M
------	---	----------------------------	---	----------	-------

Note: >>>AsTech invoice provided.

open	#	D&R Battery	1		0.3 M
------	---	-------------	---	--	-------

Note: >>>Req'd when removing electrical components to prevent damage to components or electrical system.

Non included operation, per Motors GTE G9:

LABOR TIME DOES NOT INCLUDE:

SPECIAL NOTATION:

The items listed below apply to all labor procedures.

- Battery D&R/recharge

open	#	R&I Wiring	1		0.5 M
------	---	------------	---	--	-------

Note: >>>Wiring attached to bumper, headlamps and fender access points. Not listed as included operation within any of those operations contained within the GTE on pages G9 or G13.

open	#	Reset electronic memory functions	1		0.5 M
------	---	-----------------------------------	---	--	-------

Note: >>>Non included operation, per Motors GTE G9:

LABOR TIME DOES NOT INCLUDE:

SPECIAL NOTATION:

The items listed below apply to all labor procedures.

- Reset electronic memory functions after battery disconnect

open	#	Reprogram & initialize power windows	1		1.0 M
------	---	--------------------------------------	---	--	-------

Note: >>>Req'd after battery D&R to relearn auto up/down and pinch protection functionality.

Non included operation, per Motors GTE G9:

LABOR TIME DOES NOT INCLUDE:

SPECIAL NOTATION:

The items listed below apply to all labor procedures.

- Computer control module D&R/relearn

open	#	Bring vehicle to operation temperture	1		0.3 M
------	---	---------------------------------------	---	--	-------

Note: >>>Req'd to allow system functions to initialize prior to post-scan. Systems include: cooling, emission, engine and transmission. See scan line note on line #46

open	#	Install battery support device	1		0.3 M
------	---	--------------------------------	---	--	-------

Note: >>>See scan line note on line #46

open	#	CDS Astech post-repair scan	1	159.53 T	0.5 M
------	---	-----------------------------	---	----------	-------

Note: >>>AsTech invoice provided.

open	#	Provide support assist functions for resets	1		0.5 M
------	---	---	---	--	-------

Note: >>>See scan line note on line #46

open	#	Test drive, normalize functions & re-torque wheels	1		0.7 M
------	---	--	---	--	-------

Note: >>>Non included operation, per Motors GTE G9:

LABOR TIME DOES NOT INCLUDE:

SPECIAL NOTATION:

The items listed below apply to all labor procedures.

- Road test vehicle

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open	#	Subl	Transport from Harmony VW	1	495.60	T
59	#	Subl	Transport to Harmony VW	1	495.60	T
open	#	Subl	Harmony VW Recalibrate front radar	1	465.43	T
Note: >>>Req'd per VW repair manual when distance sensor or attaching components are removed from the vehicle.						
<hr/>						
61	WHEELS					
open	*	R&I	RT/Front R&I wheel		m	<u>0.2</u> M
Note: >>>Both wheels req'd 2 R&I operations; PDA estimate only accounts for single R&I of 1 wheel.						
open	*	R&I	LT/Front R&I wheel		m	<u>0.2</u> M
<hr/>						
64	WINDSHIELD					
open		R&I	RT W'shield molding			0.3
Note: >>>RT & LT mldgs removed for access req'd to R&R fenders.						
open		R&I	LT W'shield molding			0.3
open		Repl	RT Retaining strip clamp	7P6853910A	1	4.76
open		Repl	LT Retaining strip clamp	7P6853910A	1	4.76
<hr/>						
69	FRONT DOOR					
open		R&I	RT R&I door assy			1.0
Note: >>>RT & LT doors R&I'd to back mask for overspray prevention. See file photos that document doors removed from vehicle.						
open		R&I	LT R&I door assy			1.0
open		Blnd	RT Door shell to 09/30/2018			1.1
Note: >>>Blend operation for RT door not listed on PDA estimate.						
73		Blnd	LT Door shell to 09/30/2018			1.1
74		Repl	RT Belt molding chrome	17A8374762ZZ	1	140.00
75		Repl	LT Belt molding chrome	17A8374752ZZ	1	140.00
open		R&I	RT R&I mirror			0.3
Note: >>>Not listed on PDA estimate, req'd for blend operation.						
77		R&I	LT R&I mirror			0.3
open		R&I	RT Handle, outside w/keyless entry			0.5
Note: >>>Not listed on PDA estimate, req'd for blend operation.						
79		R&I	LT Handle, outside w/keyless entry			0.5
open		R&I	RT Door check to 10/31/2018			0.2
Note: >>>Req'd to R&I door.						
open		R&I	LT Door check to 10/31/2018			0.2
Note: >>>Req'd to R&I door.						
open		R&I	RT R&I trim panel			0.6
Note: >>>Req'd to R&I door mirror.						
83		R&I	LT R&I trim panel			0.6
open		Repl	RT Door trim panel clip upper half	510868246	2	3.48
Note: >>>Invoice provided for clips listed on lines 82-89.						
open		Repl	LT Door trim panel clip upper half	510868246	2	3.48
open		Repl	RT Door trim panel clip lower half	5G0868563	2	2.60
open		Repl	LT Door trim panel clip lower half	5G0868563	2	2.60

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open	Repl	RT Door trim panel retainer	3AA868243A	1	2.60	
open	Repl	LT Door trim panel retainer	3AA868243A	1	2.60	
open	Repl	RT Door trim panel retainer clip	7L6868243	3	3.90	
open	Repl	LT Door trim panel retainer clip	7L6868243	3	3.90	
open	Repl	RT Handle plate to 07/2018	17A837812E	1	32.80	0.3
Note: >>>Plastic tabs broke during R&I, invoice provided.						
<hr/>						
93	MISCELLANEOUS OPERATIONS					
open	#	Cover steering wheel, seats and floor		1	5.00 T	0.1
open	#	Pre-wash and degrease vehicle		1	10.00 T	0.5
Note: >>>Req'd to remove silicone based contaminants from vehicle prior to repair process.						
>>>Non included operation, per Motors GTE G9: LABOR TIME DOES NOT INCLUDE: SPECIAL NOTATION: The items listed below apply to all labor procedures.						
• Undercoating, tar or grease removal						
open	#	Cover car for primer		1	6.00 T	0.2
Note: >>>The following applies to lines 94-98 and 99-102						
Non included operations, per Motors GTE G35:						
BASIC COLOR COAT APPLICATION DOES NOT INCLUDE:						
• Adhesion promoter (unprimed flexible component)						
• Backside refinishing						
• Blending into adjacent panels						
• Cover mask engine/compartment to prevent overspray						
• Color matching to adjacent panels						
• Cover/mask for prime and block						
• Cover/mask for cut-in						
• Cover/mask recessed edges/jambs/weatherstrips						
• Cover/mask trunk/compartment to prevent overspray						
• Cover/mask entire exterior of vehicle to prevent overspray damage						
• Cover/mask interior of vehicle to prevent overspray damage						
• Edge refinishing						
• Grind, fill, & smooth welded seams (up to 150 grit sandpaper)						
• Paint or material costs						
• Prime & block (high build/primer-filler)						
• Test spray-out panel						
• Tinting Primer-Sealer						
• Tinting to achieve color match						
• Underside refinishing						
• Weld, grind or sanding damage to adjacent panels						
• Wet sanding						
open	#	Wash & tack after blocking		1	5.00 T	0.3
open	#	Prep plastic bumper cover (each)		1		1.0
open	#	Match and tint exterior color		1		1.0
open	#	Spray out card for variant/tint		1		0.3
open	#	Additional clear coat mix (each)		1		0.2
Note: >>>Additional mix req'd for bumper cover that requires flex additive.						
Non included operations, per Motors GTE G35:						

Preliminary Estimate

RO Number: 10653

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CLEAR COAT FINISHES
(Base Coat/Clear Coat)

INCLUDED:

- Clean sprayer (one time)
- Mix clear coat (one time)

open #	Mask engine compartment/underhood	1			0.4
open #	Mask L front door jamb	1			0.4
open #	Mask R front door jamb	1			0.4
open #	Trim fender attachment bolts	1			1.0
	Note: >>>Req'd to restore factory appearance of underood bolts once panels have been installed.				
open #	Trim hood attachment bolts	1			0.5
open #	Cover car for buffing/polishing	1	6.00	T	0.2

Note: Non included operations, per Motors GTE G39:

WET/DRY SAND, RUB-OUT & BUFF

Refinished panels may or may not require a varying amount of wet sanding, compound rub-out or buffing operations. In the event this type of operation will be performed, MOTOR suggests the following formula be considered.

- Each panel requiring wet sand, rub-out and/or buff (refinish or blend)
- Add 30% of full base refinish time

DOES NOT INCLUDE:

- Acid rain damage
- Overspray removal
- Removal of residual material from recessed edges and jambs if required
- Wash, clean, wax or detail entire vehicle prior to delivery if required

open #	Remove paint process intrusion (30% base refinish)	1			4.2
open #	Paint & Body Materials	1	1,070.79	T	
	Note: >>>Mix report provided documenting the actual materials utilized for this repair.				
open #	Clean repair debris from vehicle/final wash	1	10.00	T	1.0

Note: >>>Non included operation, per Motors GTE G9:

LABOR TIME DOES NOT INCLUDE:

SPECIAL NOTATION:

The items listed below apply to all labor procedures.

- Clean up or detailing of vehicle prior to delivery

SUBTOTALS	6,730.91	29.5	26.4
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Preliminary Estimate

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2019 VW Jetta SE Automatic SULEV 4D SED 4-1.4L Turbocharged Gasoline Gasoline Direct Injection Orange

ESTIMATE TOTALS

Category	Basis		Rate	Cost \$
Parts				3,832.43
Body Labor	20.4 hrs	@	\$ 57.00 /hr	1,162.80
Paint Labor	26.4 hrs	@	\$ 57.00 /hr	1,504.80
Mechanical Labor	9.1 hrs	@	\$ 110.00 /hr	1,001.00
Miscellaneous				2,898.48
Subtotal				10,399.51
Sales Tax	\$ 10,399.51	@	7.0000 %	727.97
Grand Total				11,127.48
Deductible				0.00
CUSTOMER PAY				0.00
INSURANCE PAY				11,127.48

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Estimate based on MOTOR CRASH ESTIMATING GUIDE and potentially other third party sources of data. Unless otherwise noted, (a) all items are derived from the Guide ERA9284, CCC Data Date 10/01/2019, and potentially other third party sources of data; and (b) the parts presented are OEM-parts. OEM parts are manufactured by or for the vehicle's Original Equipment Manufacturer (OEM) according to OEM's specifications for U.S. distribution. OEM parts are available at OE/Vehicle dealerships or the specified supplier. OPT OEM (Optional OEM) or ALT OEM (Alternative OEM) parts are OEM parts that may be provided by or through alternate sources other than the OEM vehicle dealerships with discounted pricing. Asterisk (*) or Double Asterisk (**) indicates that the parts and/or labor data provided by third party sources of data may have been modified or may have come from an alternate data source. Tilde sign (~) items indicate MOTOR Not-Included Labor operations. The symbol (<>) indicates the refinish operation WILL NOT be performed as a separate procedure from the other panels in the estimate. Non-Original Equipment Manufacturer aftermarket parts are described as Non OEM, A/M or NAGS. Used parts are described as LKQ, RCY, or USED. Reconditioned parts are described as Recond. Recored parts are described as Recore. NAGS Part Numbers and Benchmark Prices are provided by National Auto Glass Specifications. Labor operation times listed on the line with the NAGS information are MOTOR suggested labor operation times. NAGS labor operation times are not included. Pound sign (#) items indicate manual entries.

Some 2020 vehicles contain minor changes from the previous year. For those vehicles, prior to receiving updated data from the vehicle manufacturer, labor and parts data from the previous year may be used. The CCC ONE estimator has a list of applicable vehicles. Parts numbers and prices should be confirmed with the local dealership.

The following is a list of additional abbreviations or symbols that may be used to describe work to be done or parts to be repaired or replaced:

SYMBOLS FOLLOWING PART PRICE:

m=MOTOR Mechanical component. s=MOTOR Structural component. T=Miscellaneous Taxed charge category. X=Miscellaneous Non-Taxed charge category.

SYMBOLS FOLLOWING LABOR:

D=Diagnostic labor category. E=Electrical labor category. F=Frame labor category. G=Glass labor category. M=Mechanical labor category. S=Structural labor category. (numbers) 1 through 4=User Defined Labor Categories.

OTHER SYMBOLS AND ABBREVIATIONS:

Adj.=Adjacent. Algn.=Align. ALU=Aluminum. A/M=Aftermarket part. Blnd=Blend. BOR=Boron steel. CAPA=Certified Automotive Parts Association. D&R=Disconnect and Reconnect. HSS=High Strength Steel. HYD=Hydroformed Steel. Incl.=Included. LKQ=Like Kind and Quality. LT=Left. MAG=Magnesium. Non-Adj.=Non Adjacent. NSF=NSF International Certified Part. O/H=Overhaul. Qty=Quantity. Refn=Refinish. Repl=Replace. R&I=Remove and Install. R&R=Remove and Replace. Rpr=Repair. RT=Right. SAS=Sandwiched Steel. Sect=Section. Subl=Sublet. UHS=Ultra High Strength Steel. N=Note(s) associated with the estimate line.

CCC ONE Estimating - A product of CCC Information Services Inc.

The following is a list of abbreviations that may be used in CCC ONE Estimating that are not part of the MOTOR CRASH ESTIMATING GUIDE:

BAR=Bureau of Automotive Repair. EPA=Environmental Protection Agency. NHTSA= National Highway Transportation and Safety Administration. PDR=Paintless Dent Repair. VIN=Vehicle Identification Number.

Preliminary Estimate

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2019 VW Jetta SE Automatic SULEV 4D SED 4-1.4L Turbocharged Gasoline Gasoline Direct Injection Orange

RECALL INFO

2019 VW Jetta SE Automatic SULEV 4D SED 4-1.4L Turbocharged Gasoline Gasoline Direct Injection Orange

VIN:	3VWC57BU2KM082396	Interior Color:		Mileage In:		Vehicle Out:	9/16/2019
License:		Exterior Color:	Orange	Mileage Out:			
State:		Production Date:		Condition:		Job #:	

The National Highway Transportation and Safety Administration (NHTSA) has issued 2 safety-related recall notice(s) that may apply to the selected vehicle.

NHTSA ID: 18V824000 **Issued: Nov 11, 18** **Number of Vehicles: 00073545**

ELECTRICAL SYSTEM: INSTRUMENT PANEL Volkswagen Group of America, Inc. (Volkswagen) is recalling certain 2018-2019 Volkswagen Atlas and Tiguan and 2019 Volkswagen Jetta vehicles that do not have keyless entry. The instrument cluster may not provide an audible warning to let the driver know that the key is still in the ignition when the door is open. As such, these vehicles fail to comply with the requirements of Federal Motor Vehicle Safety Standard (FMVSS) number 114, "Theft Protection." If the driver is not notified by an audible noise that the key is left in the ignition, it can increase the risk of vehicle theft or crash. Volkswagen will notify owners, and dealers will reprogram the instrument cluster, free of charge. The recall is expected to begin January 18, 2019. Owners may contact Volkswagen customer service at 1-800-893-5298. Volkswagen's numbers for this recall are 90L3 and 90L4.

NHTSA ID: 18V671000 **Issued: Sep 9, 18** **Number of Vehicles: 00000028**

EXTERIOR LIGHTING:HEADLIGHTS Volkswagen Group of America, Inc. (Volkswagen) is recalling certain 2019 Volkswagen Jetta vehicles equipped with LED headlights. The passenger side headlight may be incorrectly positioned, reducing the driver's visibility when it is dark. As such, these vehicles fail to comply with the requirements of Federal Motor Vehicle Safety Standard (FMVSS) number 108, "Lamps, Reflective Devices, and Associated Equipment." A reduction in the driver's visibility can increase the risk of a crash. Volkswagen will notify owners, and dealers will replace the passenger side headlight, free of charge. The recall began November 2, 2018. Owners may contact Volkswagen customer service at 1-800-893-5298. Volkswagen's number for this recall is 94L1.

https://ncdoi.com/Publications/Consumer%20Guide%20to%20Automobile%20Insurance_CAU1.pdf

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<http://reports.oah.state.nc.us/ncac/title%2011%20-%20insurance/chapter%2004%20-%20consumer%20services%20division/11%20ncac%2004%20.0419.pdf>

Steering memo

<https://degweb.org/>

estimating tips, access to all estimating guides, dispute labor times

<https://scrs.com/technical-resources/>

<https://scrs.com/wp-content/uploads/2018/01/2016-scrs-guide-to-complete-repair-planning-revised-11-16.pdf>

<http://collisionadvice.com/auto-body-consulting-forms/>