



Automotive Service Association®

# **Reference Chart of “Not-Included” Operations When Installing New Replacement Parts**

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## **Reference Chart of “Not-Included” Operations When Installing New Replacement Parts**

Because the amount of labor time necessary for certain operations cannot be fully standardized, collision estimating databases do not have pre-existing labor estimates for some operations. As a result, when preparing estimates, users of computerized estimating programs will need to manually input certain operations. The lists contained in this document are designed to help users ensure they consider all of the possible operations when they write an estimate of collision damages.

The first section lists “Not-Included” operations in the published labor guides for common major parts, separated by information provider.

**Options:** These are the vehicle’s option choices for the computer-assisted estimating program that may affect parts and/or labor on an estimate. (If the correct option is selected, appropriate labor time will be included.)

**Operations:** These are additional tasks that may be needed beyond the labor provided for parts replacement.

**R&I Parts:** These are parts not included in replacement labor, requiring additional labor when needed.

**Refinish:** These are labor operations beyond the regular procedures for surface refinish, requiring additional labor when needed.

The second section lists general “Not-Included” operations, separated by steps in the repair process and applicable to all parts.

When preparing an itemized estimate of damages, a quick check of these lists will help remind you to include all necessary operations and will result in a more complete and accurate damage analysis. Your final invoice must include all labor operations needed and performed.

**This guide is meant as a quick summary of general “Not-Included” operations,  
for the benefit of ASA members. Refer to each information provider’s Procedures Pages for specifics.**

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**For the latest information, visit the providers' websites.**



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**CCC Information Services, Inc.**

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[www.cccis.com](http://www.cccis.com)



**Motor Information Systems**

(800) 288-6828

[www.motor.com](http://www.motor.com)

Guide to Estimating Procedure Pages

[www.motor.com/page.asp?page\\_ID=176](http://www.motor.com/page.asp?page_ID=176)

Customer Service Contact

[www.motor.com/customer\\_service.asp](http://www.motor.com/customer_service.asp)

### **Labor Notes:**

Listed are general procedures for new part replacement operations. Specific vehicle information, labor notes, and part details may be found in each information provider's printed or electronic data.

- All labor/refinish times are based on new undamaged vehicles and parts.
- Information in the procedure pages may be superseded by vehicle footnotes.
- Mechanical parts or operations are indicated by (M). A Mechanical Labor Rate may be appropriate.
- Some parts may not contain a labor or refinish amount; check if this is appropriate for that particular repair and add as a judgment amount, if needed.

### **Refinish Notes:**

Refinish operations that should be considered for every repair with every information provider are listed in the second section with other general operations.

Recoating, repriming or stripping of top coating on bumper covers may be required, and if so is not included with database refinish and replacement times. PPG, Axalta, BASF, Akzo Nobel and Sherwin-Williams suggest the following test to determine what type of primer has been applied.

Solvent test all factory original equipment (OE) and aftermarket primer coats for solubility with a plastic cleaning product or a strong solvent by wiping the substrate with a rag. If using a strong solvent such as lacquer thinner or an equivalent product, caution must be used to prevent the potential of static charge buildup. If the solvent softens or dissolves the primer coating during wiping, it is absolutely necessary to completely remove to factory primer and treat the bumper cover as an unprimed cover. We also suggest a tape test to verify the adhesion integrity of the primer.

### **Feather/Prime/Block – Collision Industry Conference, April 2006**

- The repair process associated with damaged painted body panels typically involves multiple operations: body repair, feather, prime, block and refinish.
- The body repair process includes metal finishing and/or the use of body fillers to return the body panel to its undamaged contour. The repaired area is finished to 150-grit and free of surface imperfections.
- Feather, prime and block are not-included refinish operations that complete the process from 150-grit to the condition of a new undamaged panel.
- The refinish process starts at the condition of a new undamaged panel and are outlined and documented in printed and/or electronic time guides.
- The body/paint labor and materials necessary to prepare the repaired area from 150-grit to the condition of a new undamaged part are valid and required steps in the process.
- The labor and material allowance for these operations requires an on-the-spot evaluation of the specific vehicle and damage.

### **Blending – Suggested/Automated Calculations**

Blending formulas are for use on an UNDAMAGED panel for the sole purpose of facilitating color match. The formulas assume adjacent panels also are being refinished. They are not intended for use on repaired panels.

# Front Bumper



## Audatex

### Options:

Bumper Guards  
Cornering Lamps  
Fog Lamps  
Frt/Rear Obstacle Warning Systems  
Front Spoiler  
Headlamp Washers  
Impact Strip  
Parking Sensor  
Two and Three Stage Interior  
Four Stage

### Operations:

Additional labor for removal of parts (access labor)  
Aim headlamps  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Detailing  
Diagnosis and testing of electronic components or systems  
(e.g. airbags)  
Filling and finishing of unneeded holes  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
R&R of tape stripes or decals  
Removal of debris, grease, corrosion, protective coatings  
or other materials  
Removal of part number labels  
Test drive to relearn system  
Trimming, repair, or modification of part

## CCC/MOTOR

### Options:

Clear coat  
Lamps  
Three stage  
Four stage

### Operations:

Additional aligning or repair  
Alignment, check or straightening related parts  
Battery recharge  
Clean up or detailing of vehicle prior to delivery  
Computer control module relearn  
Cutting, pulling or pushing damaged parts for access  
Drill time  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Lamp aiming  
Material costs  
Pre/post diagnostic scans  
Reset electronic memory functions after battery disconnect  
Rusted, frozen, broken or corrosion damaged components  
or fasteners  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Stripe tape, decals or overlays  
Waste disposal fees (all types)

## Mitchell

### Options:

Auxiliary/ Fog Lamps  
Brush Guard  
Clear Coat  
Fog Lamps  
Headlamp Washers  
Four Stage  
Laser/Radar/Cruise Control  
Park Aid Sensors  
Spoiler  
Three Stage

### Operations:

Access time - remove extensively damaged parts by cutting,  
pushing, pulling, etc.  
Aim headlamps  
Alignment of adjacent parts  
Clean vehicle to pre-accident condition  
Hazardous materials recycling or disposal  
Install stripes, decals, transfers or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Remove and/or apply weldable zinc primers, wax,  
petroleum based coatings, undercoating or any type of  
added conditioning.  
Remove extensively damaged parts by cutting, pushing,  
pulling, etc.  
Removal of tar, grease or other materials  
Repair/Align parts or adjacent to parts being replaced  
Shop materials  
Time necessary to free up parts frozen by rust or corrosion  
Time to aim/calibrate/diagnose/re-set/scan or test  
Time to plug and finish unneeded holes on parts being  
installed.  
Transfer Time for welded/riveted/bonded brackets/braces/  
reinforcements

# Front Bumper (continued)



## Audatex

### R&I Parts:

Front License Bracket  
Front License Plate  
Impact Bar  
Moldings/Emblems  
Namplates/Ornaments  
Non-standard equipment not identified as options  
Ornamentation

### Refinish:

Additional prep or cleaning of new, unprimed panels  
Any application of base color beyond the third base coat  
Color sand & buff  
Color tint  
Final sand and buff  
Final wash  
Masking of mouldings and ornamentation  
Nib sanding/De-nib  
Paint and materials  
Preparation of a raw, unprimed parts  
Removal of protective coatings from replacement parts  
Removal of release agents from raw, unprimed plastic components  
Second clear set up  
Second color set up  
Spray additional test panel  
Tint primer or clear coat  
Two tone

## CCC/MOTOR

### R&I Parts:

Aftermarket & OEM accessories  
Air bag sensor  
Battery  
Bumper brackets/frame rail extensions (if mounted to  
Distance sensor  
Energy absorber, if mounted to frame rail (all types)  
Lamps (optional equipment, or not mounted to bumper)  
License plate/bracket  
Reinforcement/impact bar (if mounted to frame rail)  
Valance panel/spoiler (when not mounted to bumper)

### Refinish:

Adhesion promoter (unprimed flexible component)  
De-nib/wet sand and/or buff for polishing  
Flex additive mixing time  
Flex prep application  
Masking of attached parts  
Paint and materials  
Protective coating removal  
Test spray-out panel  
Tint primer or clear coat  
Tinting to achieve color match  
Two tone color tinting  
Two tone refinishing  
Unprimed bumpers, removal of mold-release agents  
Wet/dry sand, rub out and buff

## Mitchell

### R&I Parts:

Adhesive exterior trim; add to clean and retape  
Auxillary lamps  
Brush guards  
Fog lamps  
Head lamp washers  
Impacts absorbers or mounting arms  
Laser/Radar cruise control sensor  
New adhesive exterior trim; deduct one-half of R&R time  
Non original equipment  
Overhaul or repl headlamp accessories  
Optional accessories  
Parking aid sensors  
R&I adhesive exterior trim; add to clean and retape  
R&R new adhesive exterior trim; deduct one-half of R&R time  
Spoilers

### Refinish:

Color match or tinting  
De-nib and finesse outside surface area(s)  
Finish sand and buff  
Mask attached components, trim, stripes or decals  
Paint and materials  
Raw substrate prep  
Removal of protective coatings  
Removal of release agent from OEM raw plastic components  
Two tone

# Headlamp Mounting Panel



## Audatex

### Options:

Four stage  
Two and three stage exterior  
Two and three stage interior

### Operations:

Additional labor for removal of parts (access labor)  
Aim headlamps (additional labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Body materials  
Detailing  
Diagnosis and testing of electronic components or systems (e.g. airbags)  
Filling and finishing of unneeded holes  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
R&R of tape stripes or decals  
Removal of debris, grease, corrosion, protective coatings or other materials  
Removal of part number labels  
Restoration of corrosion-protective coatings  
Trimming, repair or modification of part

## CCC/MOTOR

### Options:

Clear coat (gloss or matte)  
Four stage  
Three stage  
Two and three stage interior

### Operations:

Alignment, check or straightening related parts  
Anti-corrosion material restoration/application  
Battery recharge  
Clean up or detailing of vehicle prior to delivery  
Computer control module relearn  
Cutting, pulling or pushing damaged parts for access  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Lamp aiming  
Material costs  
Pre/post diagnostic scans  
Reset electronic memory functions after battery disconnect  
Rusted, frozen, broken or corrosion-damaged components or fasteners  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Stripe tape, decals or overlays  
Undercoating, tar or grease removal  
Waste disposal fees (all types)

## Mitchell

### Options:

Clear coat (gloss or matte)  
Four stage  
Three stage

### Operations:

Access time - remove extensively damaged parts by cutting, pushing, pulling, etc.  
Aim headlamps  
Alignment of adjacent parts  
Clean vehicle to pre-accident condition  
Drill holes for installing exterior trim  
Hazardous materials recycling or disposal  
Install stripes, decals, transfers or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Removal of tar, grease or other materials  
Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating or any type of added conditioning  
Remove extensively damaged parts by cutting, pushing, pulling, etc.  
Repair/Align parts or adjacent to parts being replaced  
Shop materials  
Time necessary to free up parts frozen by rust or corrosion  
Time to plug and finish unneeded holes on parts being installed  
Transfer time for welded/riveted/bonded brackets/braces/reinforcements



# Headlamp Mounting Panel (continued)



## Audatex

### R&I Parts:

Moldings/emblems  
Namplates/ornaments  
Non-standard equipment

### Refinish:

Application of e-coat equivalent  
Anti-corrosion material application  
Color sand and buff  
Color tint  
Final sand and buff  
Final wash  
Masking of mouldings and ornamentation  
Nib sanding/De-nib  
Paint and materials  
R&I or masking of mouldings and ornamentation  
Removal of protective coatings from replacement parts  
Spray additional test panel  
Tint primer or clear coat  
Two tone

## CCC/MOTOR

### R&I Parts:

Aftermarket & OEM accessories  
Air bag sensor (front bumper R&I)  
Battery (front bumper R&I)  
Brackets & braces transfer  
Bumper assembly  
Emblems & nameplates (front bumper R&I)  
Energy absorbers, all types (front bumper R&I)  
Information label installation  
Lamps (when note mounted in bumper) (front bumper R&I)  
Valance panel/spoiler (when not mounted to bumper)  
(front bumper R&I)

### Refinish:

Anti-corrosion material application  
Cover/mask entire exterior of vehicle to prevent overspray  
Cover/mask for cut-in  
De-nib/wet sand and/or buff for polishing  
Filling, blocking, featheredging repaired panels  
Masking of attached parts  
Paint and materials  
Protective coating removal  
Test spray-out panel  
Tint clear coat  
Tinting primer-sealer  
Tinting to achieve color match  
Two tone color tinting  
Two tone refinishing  
Wet/dry sand, rub out and buff

## Mitchell

### R&I Parts:

Adhesive exterior trim; add to clean and retape  
Fenders  
Front bumper  
New adhesive exterior trim; deduct one-half of R&R time  
Non original equipment  
Optional accessories  
Overhaul or replace headlamp parts

### Refinish:

Anti-corrosion material application  
Color match or tinting  
De-nib and finesse outside surface area(s)  
Finish sand and buff  
Mask attached components, trim, stripes or decals  
Paint and materials  
Removal of protective coatings  
Subsequent vehicle bagging when required:  
Two tone

# Hood



## Audatex

### Options:

Four stage  
Two and three stage exterior  
Two and three stage interior  
Hood scoop

### Operations:

Additional labor for removal of parts (access labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Body materials  
Detailing  
Diagnosis and testing of electronic components or systems (e.g. airbags)  
Filling and finishing of unneeded holes  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
R&R of tape stripes or decals  
Removal of debris, grease, corrosion, protective coatings or other materials  
Removal of part number labels  
Restoration of corrosion-protective coatings  
Seam sealing  
Trimming, repair or modification of part

## CCC/MOTOR

### Options:

Clear coat (gloss or matte)  
Four stage  
Three stage

### Operations:

Alignment, check or straightening related parts  
Anti-corrosion material restoration/application  
Clean up or detailing of vehicle prior to delivery  
Cutting, pulling or pushing damaged parts for access  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Material costs  
Pre/post diagnostic scans  
Rusted, frozen, broken or corrosion damaged components or fasteners  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Seam sealer  
Sprayable seamsealer equipment prep & adjustment before application  
Stripe tape, decals or overlays  
Waste disposal fees (all types)

## Mitchell

### Options:

Clear coat (gloss or matte)  
Four stage  
Three stage

### Operations:

Access time-remove extensively damaged parts by cutting, pushing, pulling, etc.  
Alignment of adjacent parts  
Caulking/seam sealer test patterns or application of material to duplicate factory look, texture and color  
Caulking/seam sealer masking  
Caulking/seam sealer set up and clean up of application tool  
Clean vehicle to pre-accident condition.  
Drill holes for installing exterior trim  
Hazardous materials recycling or disposal  
Install stripes, decals, transfers or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating or any type of added conditioning.  
Remove extensively damaged parts by cutting, pushing, pulling, etc.  
Repair/Align parts or adjacent to parts being replaced  
Shop materials  
Time necessary to free up parts frozen by rust or corrosion.  
Time to plug and finish unneeded holes on parts being installed.  
Transfer time for welded/riveted/bonded brackets/braces/reinforcements

# Hood (continued)



## Audatex

### R&I Parts:

Hinge from vehicle  
Insulator pad  
Moldings/Emblems  
Nameplates/Ornaments  
Non-standard equipment not identified as options  
Specification labels  
Wiring

### Refinish:

Application of e-coat equivalent  
Anti-corrosion material application  
Color sand and buff  
Color tint  
Final sand and buff  
Final wash  
Masking of engine compartment  
Masking of mouldings  
Masking of interior surfaces/entryways  
Nib sanding/De-nib  
Paint and materials  
R&I or masking of mouldings and ornamentation  
Removal of protective coatings from replacement parts  
Second clear set up  
Second color set up  
Second or third bagging or masking of vehicle  
Spray additional test panel  
Tint primer or clear coat  
Two tone  
Underside refinishing

## CCC/MOTOR

### R&I Parts:

Aftermarket & OEM accessories  
Hinge  
Hood lock  
Information label installation  
Moldings/Emblems  
Nameplates/Ornaments  
Stripe tape, decals or overlays

### Refinish:

Add for underside  
Anti-corrosion material application  
Cover mask engine/compartment to prevent overspray  
Cover/mask entire exterior of vehicle to prevent overspray  
Cover/mask for cut-in  
De-nib/wet sand and/or buff for polishing  
Filling, blocking, featheredging repaired panels  
Mask inner panels  
Masking of attached parts paint inner areas  
Matte/flat refinished-texture matching  
Matte/flat refinishes-perform test spray-out of let down panel  
Matte/flat refinishes-tinting the matte clear to adjust level  
of gloss  
Paint and materials  
Protective coating removal  
Test spray-out panel  
Tint clear coat  
Tinting primer-sealer  
Tinting to achieve color match  
Two tone color tinting  
Two tone refinishing  
Underside additional paint mix if it is a different color than the exterior  
Wet/dry sand, rub out and buff  
Underside refinishing

## Mitchell

### R&I Parts:

Gas prop rod  
Hinges  
Insulator (adhesive)  
Non original equipment  
Optional accessories  
R&I Adhesive exterior trim; add to clean and retape  
R&R New adhesive exterior trim; deduct one-half of R&R time  
Stripe tape, decals or overlays

### Refinish:

Add for underside  
Anti-corrosion material application  
Add for Underside  
Color match or tinting  
De-nib and finesse outside surface area(s)  
Finish sand and buff  
Mask attached components, trim, stripes or decals  
Mask engine compartment  
Mask Vehicle to prevent overspray damage  
Paint and materials  
Removal of protective coatings  
Subsequent vehicle bagging when required  
Tint non-exterior colors  
Two tone  
Underside refinishing

# Radiator Support



## Audatex

### Options:

Air conditioning  
Automatic transmission  
Oil cooler  
Two and three stage interior

### Operations:

Aim headlamps (additional labor)  
Additional labor for removal of parts (access labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Body materials  
Detailing  
Diagnosis and testing of electronic components or systems (e.g. airbags)  
Disabling and enabling of Hybrid Vehicle components (i.e. high voltage systems, battery packs and power cables)  
Disconnect/reconnect computer modules for welding purposes  
Evacuate and recharge A/C system (additional labor)  
Filling and finishing of unneeded holes  
Flush and pressure test (radiator R&I)  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
Metal preparation and corrosion protection (i.e. cavity wax)  
Purge and bleed (radiator R&I)  
Refrigerant recovery (additional labor)  
Removal of debris, grease, corrosion, protective coatings, or other materials  
Removal of part number labels  
Reset Electrical Components  
Restoration of corrosion-protective coatings  
Repair panels distorted, burned or damaged by welding, drilling, grinding and straightening  
Test drive to relearn system  
Trimming, repair or modification of part

## CCC/MOTOR

### Options:

Air conditioning  
Clear coat (gloss or matte)  
Transmission  
Two and three stage interior

### Operations:

A/C System, evacuate and recharge  
Alignment, check or straightening related parts  
Anti-corrosion material restoration/application  
Battery D&R/recharge  
Caulk (non-OEM) or sound insulate inner areas  
Clean up or detailing of vehicle prior to delivery  
Computer control module D&R/relearn  
Cutting, pulling or pushing damaged parts for access  
Disabling and enabling of Hybrid Vehicle components  
Disable SRS system  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Information label installation  
Grind, fill & smooth welded seams (up to 150 grit sandpaper)  
Material costs  
Pre/post diagnostic scans  
Remove electronics within 12" of welding zone  
Reset electronic memory functions after battery d&r  
Road test vehicle  
Rusted, frozen, broken or corrosion damaged components or fasteners  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Sprayable seamsealer equipment prep & adjustment before application  
Steering column inspection  
Test panel/spray caulk  
Undercoating, tar or grease removal  
Waste disposal fees (all types)

## Mitchell

### Options:

Air conditioning  
Automatic transmission  
Clear coat  
Oil cooler  
Skid plate

### Operations:

Access time-remove extensively damaged parts by cutting, pushing, pulling, etc.  
Aim lamps if attached to support  
Alignment of adjacent parts  
Caulking/seam sealer test patterns or application of material to duplicate factory look, texture and color  
Caulking/seam sealer as undercoating or sound deadening  
Caulking/seam sealer masking  
Caulking/seam sealer set up and clean up of application tool  
Clean vehicle to pre-accident condition  
D&R battery  
Complete computer relearn procedures for proper operation of vehicle systems  
Fabrication of reinforcements or inserts  
Hazardous materials recycling or disposal  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Pressure test system if necessary (radiator R&I)  
Remove and/or apply: anti-corrosion rust resistant materials  
Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating or any type of added conditioning.  
Remove extensively damaged parts by cutting, pushing, pulling, etc.  
Repair/Align Parts or adjacent to parts being replaced  
Reset memory code function  
Shop Materials  
Time necessary to free up parts frozen by rust or corrosion  
Time to aim/calibrate/diagnose/re-set/scan or test

# Radiator Support (continued)



## Audatex

### R&I Parts:

- Bumper overhaul
- Disconnect/connect of power steering lines
- Front license bracket (bumper overhaul)
- Front license plate (bumper overhaul)
- Fuel vapor canister
- Fuse box
- Impact bar (bumper overhaul)
- Information label installation
- Mouldings/emblems
- Nameplates/ornaments
- Non-standard equipment not identified as options
- Relay
- Specification labels
- Wiring harness

## CCC/MOTOR

- Weld through primer
- Welder set up and/or tests and preparation

### R&I Parts:

- Aftermarket & OEM accessories
- Brackets & braces transfer
- Additional labor for removal of parts (access labor)
- Alignment of parts adjacent to parts being replaced
- Application of lubricant or similar material
- Detailing
- Disconnect/reconnect computer modules for welding purposes
- Information label installation
- R&I electronics within 12" of welding zone
- Vehicle specific, see rad support labor note in CCC

## Mitchell

- Time to complete computer relearn procedures for proper operation of vehicle systems when the battery has been D&R'd
- Time to plug and finish unneeded holes on parts being installed.
- Time to R&I wiring and/or wiring harness and computer modules as necessary
- Time to reset memory code function
- Transfer Time for welded/riveted/bonded brackets/braces/reinforcements

### R&I Parts:

- Air conditioning components
- Auxilliary lamps (front bumper R&I)
- Belts
- Bolted parts & assemblies
- Brush guard (front bumper R&I)
- Computer module
- Cruise control
- Decals
- Fan
- Fan clutch
- Fenders
- Fluid reservoirs & coolers
- Fog lamps (front bumper R&I)
- Front bumper
- Front header panel
- Headlamp waster system (front bumper R&I)
- Hood panel
- Non original equipment
- Optional accessories
- Parking aide sensors, spoiler (front bumper R&I)
- Puley
- R&R belts
- R&R decals
- R&R fan
- R&R fan clutch

# Radiator Support (continued)



## Audatex

### Refinish:

- Anti-corrosion material application
- Application of e-coat equivalent
- Application of "high build" primer
- Color tint
- Final sand and buff
- Final wash
- Masking of engine compartment
- Masking of mouldings
- Nib sanding/de-nib
- Paint and materials
- Refinish adj panels that may be damaged by welding
- R&l or masking of mouldings and ornamentation
- Removal of protective coatings from replacement parts
- Second Clear Setup
- Second color set up
- Second or third bagging or masking of vehicle
- Spray additional test panel
- Tint primer or clear coat
- Two Tone

## CCC/MOTOR

### Refinish:

- Anti-corrosion material application
- Cover mask engine/compartment to prevent overspray
- Cover/mask entire exterior of vehicle to prevent overspray
- Cover/mask for cut-in
- Cover/mask for prime and block
- Filling, blocking, featheredging repaired panels
- Mask inner panels
- Masking of attached parts
- Matte/flat refinished-texture matching
- Matte/flat refinishes-perform test spray-out of let down panel
- Matte/flat refinishes-tinting the matte clear to adjust level of gloss
- Paint and materials
- Paint inner areas
- Prime & block (high build/primer-filler)
- Protective coating removal
- Second color set up
- Test spray-out panel
- Tint clear coat
- Tinting primer-sealer
- Tinting to achieve color match
- Weld, grind or sanding damage to adjacent panels
- Welded seam surface finishing finer than 150 grit sandpaper

## Mitchell

- R&R pulley
- R&R radiator hoses
- Radiator Hoses
- Suspension assemblies
- Vapor cannisters
- Wiring and/or wiring harness

### Refinish:

- Anti-corrosion material application
- Additional application of soft chip primers or anti-chip undercoats
- Color match or tinting
- Feather, prime & block paint dmg to adj pnls and/or pnls joined by welding due to burn dmg
- Mask attached components, trim, stripes or decals
- Mask vehicle to prevent overspray damage
- Mask engine compartment
- Paint and materials
- Prime & block paint damage to adjacent panel and/or panels joined by welding due to burn damage
- Removal of protective coatings
- Second clear set up
- Second color set up
- Subsequent vehicle bagging when required
- Tint non-exterior colors

## Audatex

### Options:

Four stage  
Two and three stage exterior  
Two and three stage interior

### Operations:

Additional labor for removal of parts (access labor)  
Aim headlamps (additional labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Body materials  
Corrosion protection  
Detailing  
Diagnosis and testing of electronic components or systems  
(e.g. airbags)  
Drilling hole for antenna installation  
Filling and finishing of unneeded holes  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
Removal of debris, grease, corrosion, protective coatings  
or other materials  
Removal of part number labels  
Restoration of corrosion-protective coatings  
Seam sealing  
Trimming, repair or modification of part

## CCC/MOTOR

### Options:

Clear coat (gloss or matte)  
Four stage  
Three stage

### Operations:

Alignment, check or straightening related parts  
Anti-corrosion material restoration/application  
Clean up or detailing of vehicle prior to delivery  
Cutting, pulling or pushing damaged parts for access  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Inner panels  
Lamp aiming  
Material costs  
Pre/Post diagnostic scans  
Road test vehicle  
Rusted, frozen, broken or corrosion damaged components  
or fasteners  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Stripe tape, decals or overlays  
Undercoating, tar or grease removal  
Waste disposal fees (all types)  
Wheel or hub cap locks R&I

## Mitchell

### Options:

Clear coat  
Four stage  
Three stage

### Operations:

Access time-remove extensively damaged parts by cutting,  
pushing, pulling, etc.  
Aim lamps  
Alignment of adjacent parts  
Clean vehicle to pre-accident condition  
Cut holes for installing lamps  
Drill holes for installing exterior trim  
Hazardous materials recycling or disposal  
Install stripes, decals, transfers or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Removal of tar, grease, or other materials  
Remove and/or apply weldable zinc primers, wax,  
petroleum based coatings, undercoating or any type of  
added conditioning  
Remove extensively damaged parts by cutting, pushing,  
pulling, etc.  
Repair/Align parts or adjacent to parts being replaced  
Shop materials  
Time necessary to free up parts frozen by rust or corrosion  
Time to plug and finish unneeded holes on parts being  
installed.  
Transfer time for welded/riveted/bonded brackets/braces/  
reinforcements

# Fender (continued)



## Audatex

### R&I Parts:

Antenna assembly  
Battery  
Battery tray  
Bumper impact bar (bumper R&I)  
Moldings/Emblems  
Namplates/Ornaments  
Non-standard equipment not identified as options  
Stripe removal

### Refinish:

Application of e-coat equivalent  
Anti-corrosion material application  
Chipguard  
Chip guard texture match  
Color sand and buff  
Color tint  
Edging  
Final sand and buff  
Final wash  
Masking of engine compartment  
Masking of interior surfaces/entryways  
Masking of mouldings  
Nib sanding/De-nib  
Paint and materials  
Painted stripes

## CCC/MOTOR

### R&I Parts:

Aftermarket & OEM accessories  
Antenna  
Battery  
Brackets & braces transfer  
Bumper  
Emblems/Nameplates  
Grille  
Header panel  
Hood  
Mirror  
Moldings  
Mud guard  
Road wheel  
Spoilers & flares  
Stripe tape, decals or overlays

### Refinish:

Add for Edging  
Anti-corrosion material application  
Backside e-coat replacement  
Backside refinishing  
Cover mask engine/compartments to prevent overspray  
Cover/mask entire exterior of vehicle to prevent overspray  
Cover/mask for cut-in  
Cover/mask recessed edges/jambes/weatherstrips  
De-nib/wet sand and/or buff for polishing  
Edge refinish color tinting  
Filling, blocking, featheredging repaired panels  
Mask inner panels  
Masking of attached parts  
Matte/flat refinished-texture matching  
Matte/flat refinishes-perform test spray-out of let down panel

## Mitchell

### R&I Parts:

Adhesive exterior trim; add to clean and retape  
Antenna  
Auxiliary lamps (front bumper R&I)  
Brush guard (front bumper R&I)  
Front bumper  
Front header panel  
Headlamp washer system (front bumper R&I)  
Laser/radar cruise control sensors (front bumper R&I)  
Non original equipment  
Optional accessories  
Parking aide sensors, spoiler (front bumper R&I)  
Install stripes, decals, transfers or overlays  
Rocker molding  
Skirt/Liner  
Wheel

### Refinish:

Add for edging  
Anti-corrosion material application  
Color match or tinting  
De-nib and finesse outside surface area(s)  
Finish sand and buff  
Gravel guard refinish  
Gravel guard texture match  
Mask attached components, trim, stripes or decals  
Mask engine compartment  
Mask vehicle to prevent overspray damage  
Paint and materials  
Removal of protective coatings  
Subsequent vehicle bagging when required  
Tint non-exterior colors  
Two tone



# Fender (continued)



## Audatex

R&I or masking of mouldings and ornamentation  
Removal of protective coatings from replacement parts  
Second clear set up  
Second color set up  
Second or third bagging or masking of vehicle  
Spray additional test panel  
Tint primer or clear coat  
Two tone

## CCC/MOTOR

Matte/flat refinishes-tinting the matte clear to adjust level  
of gloss  
Paint and materials  
Paint inner areas  
Painted on pinstripes  
Protective coating removal  
Stone chip guard application  
Stone chip guard texture matching  
Test spray-out panel  
Tint clear coat  
Tinting primer-sealer  
Tinting to achieve color match  
Two tone  
Two tone color tinting  
Two tone refinishing  
Wet/dry sand, rub out and buff

## Mitchell

# Door Shell



## Audatex

### Options:

- Four stage
- Keyless entry
- Mirrors
- Power locks
- Two and three stage exterior
- Two and three stage interior

### Operations:

- Additional labor for removal of parts (access labor)
- Alignment of parts adjacent to parts being replaced
- Application of lubricant or similar material
- Body materials
- Corrosion protection
- Detailing
- Diagnosis and testing of electronic components or systems (e.g. airbags)
- Excessive alignment required by the prior condition of the door opening
- Filling and finishing of unneeded holes
- Glass or other collision debris cleanup
- Hazardous waste removal
- Labor for drilling necessary to attach parts
- Lock cylinder coding
- Metal preparation and corrosion protection (i.e. cavity wax)
- Removal of debris, grease, corrosion, protective coatings or other materials
- Removal of part number labels
- Restoration of corrosion-protective coatings
- Reset electrical components
- Sound deadener
- Stripe, woodgrain or decal removal
- Test drive to relearn system
- Trimming, repair or modification of part

## CCC/MOTOR

### Options:

- Clear coat
- Four stage
- Power lock
- Power window
- Three stage
- Passive restraint system

### Operations:

- Alignment, check or straightening related parts
- Anti-corrosion material restoration/application
- Battery D&R/recharge
- Broken glass removal or clean up
- Caulk (non-OEM) or sound insulate inner areas
- Clean up or detailing of vehicle prior to delivery
- Computer control module D&R/relearn
- Cutting, pulling or pushing damaged parts for access
- Disable SRS system
- Drilling, modification or fabrication of mounting holes
- Fabricate templates, reinforcing inserts, sleeves or flanges
- Filling, plugging/finishing of unneeded holes in new parts
- Lock cylinder recoding
- Pre/Post diagnostic scans
- Reset electronic memory functions after battery D&R
- Road test vehicle
- Rusted, frozen, broken or corrosion damaged components or fasteners
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Seam sealer
- Sound deadening application
- Sprayable seamsealer equipment prep & adjustment before application
- Stripe tape, decals or overlays
- Test for water leaks (except Windshield, back glass and stationary glass)
- Undercoating, tar or grease removal
- Waste disposal fees (all types)

## Mitchell

### Options:

- Clear coat
- Four stage
- Power locks
- Power windows
- Remote mirror
- Three stage

### Operations:

- Access time-remove extensively damaged parts by cutting, pushing, pulling etc.
- Alignment of adjacent parts
- Broken glass clean up
- Caulking/seam sealer test patterns or application of material to duplicate factory look, texture and color
- Caulking/seam sealer masking
- Caulking/seam sealer set up and clean up of application tool
- Clean vehicle to pre-accident condition
- D&R battery
- Complete computer relearn procedures for proper operation of vehicle systems
- Drill holes for installing trim
- Hazardous materials recycling or disposal
- Install stripes, decals, transfers or overlays
- Plug and finish unneeded holes on parts being installed
- Pre/Post repairs scans
- Recode lock cylinder
- Removal of tar, grease or other materials
- Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating or any type of added conditioning
- Remove extensively damaged parts by cutting, pushing, pulling, etc.
- Repair/Align parts or adjacent to parts being replaced.
- Replace sound deadening
- Reset memory code function
- Shop materials
- Time necessary to free up parts frozen by rust or corrosion

# Door Shell (continued)



## Audatex

## CCC/MOTOR

## Mitchell

### R&I Parts:

Door striker  
Body side trim (sliding and cargo vans)  
Door-mounted speakers  
Moldings/Emblems  
Nameplates/Ornaments  
Non-standard equipment not identified as options  
Shoulder harness/Belt  
Sound deadener  
Specification labels R&I or replacement  
Stripe, woodgrain or decal removal  
Transfer hinges

### Refinish:

Anti-corrosion material application  
Application of e-coat equivalent  
Chip guard application  
Chip guard texture match  
Color sand and buff  
Color tint  
Edge/jamb refinish

### R&I Parts:

Aftermarket & OEM accessories  
Back glass wiper or washer (back door)  
Body side moldings  
Bonded glass removal from damaged shell  
Brackets & braces transfer  
Emblems & nameplates  
Hinge (welded type)  
Hinge halves bolted to pillar  
Information label installation  
Mirror  
Moldings  
Passive restraint system  
Spare tire carrier (back door)  
Stripe tape, decals or overlays

### Refinish:

Anti-corrosion material application  
Cover/mask entire exterior of vehicle to prevent overspray  
Cover/mask interior of vehicle to prevent overspray damage  
Cover/mask for cut-in  
Cover/mask recessed edges/jamb/weatherstrips  
De-nib/wet sand and/or buff for polishing  
Filling, blocking, featheredging repaired panels  
Masking of attached parts

Time to aim/calibrate/diagnose/re-set/scan or test  
Time to complete computer relearn procedures for proper operation of vehicle systems when the battery has been D&R'd  
Time to plug and finish unneeded holes on parts being installed  
Time to reset memory code function  
Transfer time for welded/riveted/bonded brackets/braces/reinforcements

### R&I Parts:

Adhesive exterior trim; add to clean and retape  
Decals  
Hinge anchor plates  
Hinges  
Install stripes, decals, transfer or overlays  
Non original equipment  
Optional accessories  
R&I adhesive exterior trim: deduct one-half of R&R time  
R&R channels attached to glass  
Rear view mirror

### Refinish:

Add for jambs and interior  
Anti-corrosion material application  
Color match or tinting  
De-nib and finesse outside surface area(s)  
Finish sand and buff  
Gravel guard refinish  
Gravel guard texture match  
Mask attached components, trim, stripes or decals

# Door Shell (continued)



## Audatex

- Final sand and buff
- Final wash
- Masking of interior surfaces/entryways
- Masking of moldings
- Nib sanding/De-nib
- Paint and materials
- Painted stripes
- R&I or masking of mouldings and ornamentation
- Removal of protective coatings from replacement parts
- Second clear set up
- Second color set up
- Second or third bagging or masking of vehicle
- Spray additional test panel
- Tint primer or clear coat
- Two tone

## CCC/MOTOR

- Paint and materials
- Paint inner areas
- Painted on pinstripes
- Protective coating removal
- Stone chip guard application
- Stone chip guard texture matching
- Test spray-out panel
- Tint clear coat
- Tinting primer-sealer
- Tinting to achieve color match
- Two Tone
- Two tone color tinting
- Two tone refinishing
- Wet/dry sand, rub out and buff

## Mitchell

- Mask entryways
- Mask interior to prevent overspray damage
- Mask Vehicle to Prevent Overspray Damage
- Paint and materials
- Removal of protective coatings
- Subsequent vehicle bagging when required
- Two tone

# Door Panel



## Audatex

### Options:

Four stage  
Keyless entry  
Mirrors  
Power locks  
Two and three stage exterior  
Two and three stage interior

### Operations:

Additional labor for removal of parts (access labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Body materials  
Detailing  
Diagnosis and testing of electronic components or systems (e.g. airbags)  
Excessive alignment required by the prior condition of the door opening  
Filling and finishing of unneeded holes  
Glass or other collision debris cleanup  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
Lock cylinder coding  
Metal preparation and corrosion protection (i.e. cavity wax)  
R&R of tape stripes or decals  
Removal of debris, grease, corrosion, protective coatings, or other materials  
Removal of panel bonding adhesive materials  
Removal of part number labels  
Repair of door shell  
Reset electrical components  
Restoration of corrosion-protective coatings  
Test drive to relearn system  
Trimming, repair or modification of part

## CCC/MOTOR

### Options:

Clear coat  
Four stage  
Power lock  
Power window  
Three stage  
Passive restraint system

### Operations:

Straightening of door frame  
Alignment, check or straightening related parts  
Anti-Corrosion material restoration/application  
Battery D&R/recharge  
Caulk (non-OEM) or sound insulate inner areas  
Clean up broken glass  
Clean up or detailing of vehicle prior to delivery  
Computer control module D&R/relearn  
Cutting, pulling or pushing damaged parts for access  
Disable SRS system  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Lock cylinder recoding  
Material costs  
Pre/Post diagnostic scans  
Reset electronic memory functions after battery D&R  
Road test vehicle  
Rusted, frozen, broken or corrosion damaged components or fasteners  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Sound deadening application  
Straightening of door frame  
Stripe tape, decals or overlays  
Sprayable seamsealer equipment prep & adjustment before application

## Mitchell

### Options:

Clear coat  
Four stage  
Power locks  
Power windows  
Remote mirror  
Three stage

### Operations:

Access time-remove extensively damaged parts by cutting, pushing, pulling etc.  
Alignment of adjacent parts  
Broken glass clean up  
Caulking/seam sealer test patterns or application of material to duplicate factory look, texture and color  
Caulking/seam sealer masking  
Caulking/seam sealer set up and clean up of application tool  
Clean vehicle to pre-accident condition  
Complete computer relearn procedures for proper operation of vehicle systems  
D&R battery  
Drill holes for installing trim  
Hazardous materials recycling or disposal  
Install stripes, decals, transfers or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Recode lock cylinder  
Remove and/or apply anti-corrosion rust resistant materials  
Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating or any type of added conditioning  
Remove extensively damaged parts by cutting, pushing, pulling, etc.  
Repair/Align parts or adjacent to parts being replaced.  
Removal of tar, grease, or other materials

# Door Panel (continued)



## Audatex

### R&I Parts:

Body side trim (sliding and cargo vans)  
Door-mounted speakers  
Moldings/Emblems  
Nameplates/Ornaments  
Non-standard equipment not identified as options  
Power door lock  
Shoulder harness/Belt

## CCC/MOTOR

Test for water leaks (except windshield, back glass and stationary glass)  
Undercoating, tar or grease removal  
Waste disposal fees (all types)  
Weld thru primer

### R&I Parts:

Aftermarket & OEM accessories  
Back glass wiper or washer (back door)  
Body side moldings  
Brackets & braces transfer  
Emblems & nameplates  
Glass  
Hinge  
Information label installation  
Lock cylinder recoding  
Mirror  
Moldings  
Passive restraint system  
Regulator  
Reinforcement bar  
Stripe tape, decals or overlays

## Mitchell

Replace sound deadening  
Reset memory code function  
Shop materials  
Time necessary to free up parts frozen by rust or corrosion.  
Time to aim/calibrate/diagnose/re-set/scan or test  
Time to complete computer relearn procedures for proper operation of vehicle systems when the battery has been D&R'd  
Time to reset memory code function  
Time to plug and finish unneeded holes on parts being installed.  
Transfer time for welded/riveted/bonded brackets/braces/reinforcements

### R&I Parts:

Adhesive exterior trim; add to clean and retape  
Channels  
Glass  
Hardware  
Install stripes, decals, transfers or overlays  
Mirror  
New adhesive exterior trim; deduct one-half of R&R time  
Non original equipment  
Optional accessories  
R&I Adhesive exterior trim; add to clean and retape  
R&R new adhesive exterior trim; deduct one-half of R&R time

# Door Panel (continued)



## Audatex

### Refinish:

- Anti-corrosion material application
- Application of e-coat equivalent
- Chip guard application
- Chip guard texture match
- Color sand and buff
- Color tint
- Edging
- Edge/jamb refinish
- Final sand and buff
- Final wash
- Masking of interior surfaces/entryways
- Masking of moldings
- Nib Sanding/De-nib
- Paint and materials
- Painted stripes
- R&I or masking of mouldings and ornamentation
- Removal of protective coatings from replacement parts
- Second clear set up
- Second color set up
- Second or third bagging or masking of vehicle
- Spray additional test panel
- Tint primer or clear coat
- Two tone

## CCC/MOTOR

### Refinish:

- Add for edging
- Add for inside
- Anti-corrosion material application
- Cover/mask entire exterior of vehicle to prevent overspray
- Cover/mask interior of vehicle to prevent overspray damage
- Cover/mask for cut-in
- Cover/mask recessed edges/jamb/weatherstrips
- De-nib/wet sand and/or buff for polishing
- Edging
- Edge refinish color tinting
- Filling, blocking, featheredging repaired panels
- Masking of attached parts
- Paint and materials
- Paint inner areas
- Painted on pinstripes
- Protective coating removal
- Stone chip guard application
- Stone chip guard texture matching
- Test spray-out panel
- Tinting primer-sealer
- Tinting to achieve color match
- Two tone
- Two tone color tinting
- Two tone refinishing
- Wet/dry sand, rub out and buff

## Mitchell

### Refinish:

- Add for jambs and interior
- Anti-corrosion material application
- Color match or tinting
- De-nib and finesse outside surface area(s)
- Edging
- Finish sand and buff
- Gravel guard refinish
- Gravel guard texture match
- Mask attached components, trim, stripes or decals
- Mask entryways
- Mask interior to prevent overspray damage
- Mask Vehicle to Prevent Overspray Damage
- Paint and materials
- Removal of protective coatings
- Subsequent vehicle bagging when required
- Two tone

# Quarter Panel



## Audatex

### Options:

Four stage  
Ground effects  
Mirrors  
Rear antenna  
Rear mudguards  
Two and three stage exterior  
Two and three stage interior

### Operations:

A/C evacuation/recharge (SUV/van only)  
Additional labor for removal of parts (access labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Body materials  
Detailing  
Diagnosis and testing of electronic components or systems (e.g. airbags)  
Disabling and enabling of Hybrid Vehicle components (i.e. high voltage systems, battery packs, and power cables)  
Disconnect/reconnect computer modules for welding purposes  
Disconnect and reconnect of un-deployed airbag  
Drain or refill fuel tank  
Filling and finishing of unneeded holes  
Glass adhesive and sealant clean up (back glass)  
Glass kit (back glass)  
Glass or other collision debris cleanup  
Hazardous waste removal  
Inner quarter panel (full replacement only)  
Labor for drilling necessary to attach parts  
Metal preparation and corrosion protection (i.e. cavity wax)  
R&I of Injected/Structural foam  
Removal of debris, grease, corrosion, protective coatings, or other materials

## CCC/MOTOR

### Options:

Clear coat  
Four stage  
Three stage  
Spoilers and flares

### Operations:

Alignment, check or straightening related parts  
Anti-Corrosion material restoration/application  
Battery D&R/recharge  
Broken glass removal or clean up  
Caulk (non-OEM) or sound insulate inner areas  
Clean up or detailing of vehicle prior to delivery  
Computer control module D&R/relearn  
Conv't top/retractable roof alignment (Conv't only)  
Cutting, pulling or pushing damaged parts for access  
Disabling and enabling of Hybrid Vehicle components  
Disable SRS system  
Drain & refill fuel tank  
Drilling, modification or fabrication of mounting holes  
Epoxy primer on glass pinch weld where coating has been removed  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Frame machine set up  
Glass kit (back glass/quarter glass)  
Material costs  
Panel bonded panel-additional panel fit  
Panel bonded panel-adhesive application  
Panel bonded panel-panel/vehicle preparation  
Panel bonded panel-sectioning insert/sleeve  
Panels inward of quarter  
Pre/post diagnostic scans

## Mitchell

### Options:

Clear coat  
Four stage  
Three stage  
Vinyl roof

### Operations:

Access time-remove extensively damaged parts by cutting, pushing, pulling, etc.  
Alignment of adjacent parts  
Aluminum panels materials-rivets, panel bonding, adhesives, bonding primer, EMC screws, flow drill screws  
Broken glass clean up  
Caulking/seam sealer test patterns or application of material to duplicate factory look, texture and color  
Caulking/seam sealer as undercoating or sound deadening  
Caulking/seam sealer masking  
Caulking/seam sealer set up and clean up of application tool  
Clean vehicle to pre-accident condition  
Clean up old adhesive on undamaged urethane glass  
Complete computer relearn procedures for proper operation of vehicle systems  
Cut holes for installing lamps  
D&R battery  
Drain & refill fuel tank  
Drill holes for installing exterior trim  
Fabrication of reinforcements or inserts  
Hazardous materials recycling or disposal  
Install stripes, decals, transfers or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Measure and identify damage



# Quarter Panel (continued)



## Audatex

Removal of panel bonding adhesive material  
Removal of part number labels  
Repair, fitting, or modification of new replacement parts (all less section)  
Reset Electrical Components  
Restoration of corrosion-protective coatings  
Repair panels distorted, burned or damaged by welding, drilling, grinding and straightening.  
Setup of a vehicle on a frame machine, dedicated bench or other measuring/straightening device. Pulling time is not included.  
Test drive to relearn system  
Trimming, repair, or modification of part  
Undercoating

### R&I Parts:

Antenna assembly (full/section only)  
Back glass (section only)  
Body insulation (e.g. foams, pads) (full/section only)  
Body side trim (full sized vans only)  
Body weatherstrips  
Deck lid (add'l labor, section only)  
Fuel tank (add'l labor)  
Headliner (add'l labor)

## CCC/MOTOR

R&R acoustical and structural foam within 6" of open flame, excessive heat (600 degrees) or welding operation  
Remove electronics within 12" of welding zone  
Removal of old urethane (front/back glass)  
Reset electronic memory functions after battery D&R  
Road test vehicle  
Rusted, frozen, broken or corrosion damaged components or fasteners  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Sound deadening application  
Stripe tape, decals or overlays  
Structural damage diagnosis and vehicle set up time  
Sprayable seamsealer equipment prep & adjustment before application  
Structural foam removal or application  
Test for water leaks (except windshield, back glass and stationary glass)  
Test panel/spray caulk  
Undercoating, tar or grease removal  
Waste disposal fees (all types)  
Weld through primer  
Welder set up and/or tests and preparation  
Wheel or hub cap locks R&I

### R&I Parts:

Aftermarket & OEM accessories  
Antenna  
Body side moldings  
Boot well (Conv't only)  
Brackets & braces transfer  
Carpet & insulation  
Electrical wiring  
Emblems & nameplates  
Emblems & nameplate (rear bumper R&I)

## Mitchell

Removal of tar, grease, or other materials  
Remove and replace inner panels  
Remove and/or apply anti-corrosion rust resistant materials  
Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating or any type of added conditioning.  
Remove extensively damaged parts by cutting, pushing, pulling, etc.  
Repair/Align parts or adjacent to parts being replaced.  
Replace sound deadening  
Reset memory code function  
Shop materials  
Time necessary to free up parts frozen by rust or corrosion  
Time to aim/calibrate/diagnose/re-set/scan or test  
Time to complete computer relearn procedures for proper operation of vehicle systems when the battery has been D&R'd  
Time to plug and finish unneeded holes on parts being installed.  
Time to R&I wiring and/or wiring harness and computer modules as necessary  
Time to reset memory code function  
Transfer time for welded/riveted/bonded brackets/braces/reinforcements  
Urethane glass kit

### R&I Parts:

Adhesive exterior trim; add to clean and retape  
Antenna  
Computer module  
Fuel tank  
Information label installation  
Install stripes, decals, transfers or overlays  
New adhesive exterior trim; deduct one-half of R&R time  
Non original equipment

# Quarter Panel *(continued)*



## **Audatex**

Middle/rear seat (full sized van only)  
Moldings/emblems  
Nameplates/ornaments  
Non-standard equipment not identified as options  
Rear compartment gutters (section only)  
Roll down quarter glass (full/section only)  
Running board panel (SUV/van only)  
Sunroof drain (full/section only)  
Vinyl roof caps (section only)  
Vinyl roof peel back (section only)  
Wiring harness (full/section only)

## **CCC/MOTOR**

Energy absorber, all types (rear bumper R&I)  
Epoxy primer on glass pinch weld where coating has been removed  
Exhaust system (fuel tank R&I)  
Foam  
Fuel tank  
Glass regulator assembly (non conv't only)  
Head airbags (headliner R&I) (non conv't only)  
Headliner (non conv't only)  
High-mounted stop lamp (back glass) (non conv't only)  
Information label installation  
Lamp (opt equipment) (non conv't only)  
Molding & impact strip (rear bumper R&I)  
Mud guard  
Overhead console (headliner R&I) (non conv't only)  
Power cylinder (conv't only)  
Road wheel  
Roll bar (conv't only)  
Roof cover R&I or roll back (non conv't only)  
Seats (headliner R&I)  
Spoilers & flares (opt equipment)  
Suspension & drivetrain (fuel tank R&I)  
Stripe tape, decals or overlays  
Trunk lid, liftgate or tailgate  
Wheel or hub cap locks R&I

## **Mitchell**

Optional accessories  
Preformed or molded type headliner  
Quarter window and moulding  
R&I Adhesive exterior trim; add to clean and retape  
R&R Adhesive exterior trim; deduct one-half of R&R time  
Remove undamaged urethane  
Replace channels attached to glass  
Undamaged back window and molding  
Undamaged quarter window and moulding  
Wheel  
Window moldings  
Wiring and/or wiring harness

# Quarter Panel (continued)



## Audatex

### Refinish:

- Anti-corrosion material application
- Application of e-coat equivalent
- Application of "high build" primer
- Body lock pillar refinish
- Chip guard application
- Chip guard texture match
- Color Sand and Buff
- Color Tint
- Final sand and buff
- Final wash
- Masking of interior surfaces/entryways
- Masking of mouldings and ornamentation
- Masking of trunk openings
- Nib Sanding/De-nib
- Paint and materials
- Painted stripes
- Refinish adj panels that may be damaged by welding
- Removal of protective coatings from replacement parts
- Second Clear Setup
- Second color set up
- Second or third bagging or masking of vehicle
- Spray additional test panel
- Tint primer or clear coat
- Two Tone

## CCC/MOTOR

### Refinish:

- Anti-corrosion material application
- Backside e-coat replacement
- Backside refinishing
- Clear coat extended to the nearest panel edge or breakpoint
- Cover/mask entire exterior of vehicle to prevent overspray
- Cover/mask for cut-in
- Cover/mask for prime and block
- Cover/mask interior of vehicle to prevent overspray damage
- Cover/mask recessed edges/jamb/weatherstrips
- Cover/mask trunk/compartments to prevent overspray
- De-nib/wet sand and/or buff for polishing
- Filling, blocking, featheredging repaired panels
- Mask inner panels
- Masking of attached parts
- Paint inner areas
- Painted on pinstripes
- Paint and materials
- Protective coating material application
- Protective coating removal
- Prime & block (high build/primer-filler)
- Second color set up
- Stone chip guard application
- Stone chip guard texture matching
- Test spray-out panel
- Tint clear coat
- Tint primer-sealer
- Tinting to achieve color match
- Two tone color tinting
- Two tone refinishing
- Weld, grind or sanding damage to adjacent panels
- Welded seam surface finishing finer than 150 grit sandpaper
- Wet/dry sand, rub out and buff

## Mitchell

### Refinish:

- Add to edge
- Add for pillar
- Add for inside
- Anti-corrosion material application
- Clear coat extension to the nearest panel edge or breakpoint
- Color match or tinting
- De-nib and finesse outside surface area(s)
- Extension of clear coat
- Featheredge paint damage to adj panel and/or panels joined by welding
- Feather, prime & block paint dmg to adj pnls and/or pnls joined by welding due to burn dmg
- Finish sand and buff
- Gravel guard refinish
- Gravel guard texture match
- Mask attached components, trim, stripes or decals
- Mask entryways
- Mask interior to prevent overspray damage
- Mask Vehicle to prevent overspray damage
- Paint and materials
- Prime and block paint damage to adjacent panel and/or panels joined by welding due to burn damage
- Removal of protective coatings
- Second clear set up
- Second color set up
- Subsequent vehicle bagging when required:
- Two tone

# Roof



## Audatex

### Options:

Four stage  
Two and three stage exterior  
Two and three stage interior

### Operations:

Add'l labor for removal of parts (access labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Body materials  
Detailing  
Diagnosis and testing of electronic components or systems (e.g. airbags)  
Disabling and enabling of Hybrid Vehicle components (i.e. high voltage systems, battery packs, and power cables)  
Disconnect/reconnect computer modules for welding purposes  
Disconnect/reconnect of un-deployed airbag  
Filling and finishing of unneeded holes  
Glass adhesive and sealant clean up (windshield/back glass)  
Glass kit (windshield/back glass)  
Glass or other collision debris cleanup  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
Metal preparation and corrosion protection (i.e. cavity wax)  
R&R of tape stripes or decals  
Removal of debris, grease, corrosion, protective coatings or other materials  
Removal of panel bonding adhesive materials  
Removal of part number labels  
Repair, fitting or modification of new replacement parts (all less section)  
Reset electrical components  
Restoration of corrosion-protective coatings  
Roof rail replacement

## CCC/MOTOR

### Options:

Clear coat  
Four stage  
Three stage

### Operations:

Alignment, check or straightening related parts  
Anti-corrosion material restoration/application  
Battery D&R/recharge  
Broken glass removal or clean up  
Caulk (non-OEM) or sound insulate inner areas  
Clean up or detailing of vehicle prior to delivery  
Computer control module relearn  
Cutting, pulling or pushing damaged parts for access  
Disabling and enabling of Hybrid Vehicle components  
Disable SRS system  
Drilling, modification or fabrication of mounting holes  
Filling, plugging/finishing of unneeded holes in new parts  
Epoxy primer on glass pinch weld where coating has been removed (windshield)  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Glass kit (front/back glass)  
Material costs  
Panel bonded panel-additional panel fit  
Panel bonded panel-adhesive application  
Panel bonded panel-panel/vehicle preparation  
Pre/post diagnostic scans  
Removal of old urethane (front/back glass)  
Reset electronic memory functions after battery D&R  
Road test vehicle  
Rusted, frozen, broken or corrosion damaged components or fasteners  
Scan tool clear/reset electronic module  
Sound deadening application  
Stripe tape, decals or overlays  
Undercoating, tar or grease removal

## Mitchell

### Options:

Clear coat  
Four stage  
Three stage

### Operations:

Access time-remove extensively damaged parts by cutting, pushing, pulling etc.  
Alignment of adjacent parts  
Aluminum panels materials-rivets, panel bonding, adhesives, bonding primer, EMC screws, flow drill screws  
Broken glass clean up  
Caulking/seam sealer test patterns or application of material to duplicate factory look, texture, and color  
Caulking/seam sealer as undercoating or sound deadening  
Caulking/seam sealer masking  
Caulking/seam sealer set up and clean up of application tool  
Clean up old adhesive on undamaged urethane glass  
Clean vehicle to pre-accident condition  
D&R battery  
Fabrication of reinforcements or inserts  
Hazardous materials recycling or disposal  
Install stripes, decals, transfers or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Removal of tar, grease, or other materials  
Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating, or any type of added conditioning  
Remove and/or apply anti-corrosion rust resistant materials  
Shop materials  
Sound deadening material  
Time necessary to free up parts frozen by rust or corrosion  
Time to aim/calibrate/diagnose/re-set/scan or test  
Time to complete computer relearn procedures for proper

# Roof (continued)



## Audatex

Repair panels distorted, burned or damaged by welding, drilling, grinding and straightening  
Sound deadener  
Test drive to relearn system  
Transfer of miscellaneous welded braces, brackets and clips  
Trimming, repair, or modification of part  
Undercoating  
Windshield header panel replacement

### R&I Parts:

Antenna assembly  
Body insulation (foam, pads)  
Body weatherstrips  
Body side trim (vans only)  
Non-standard equipment not identified as options  
Ornamentation  
Rear seat (vans only)  
Roll down quarter glass  
Vinyl roof install  
Washer nozzles  
Wiring harness

### Refinish:

Application of e-coat equivalent  
Application of "high-build" primer  
Color tint  
Final sand and buff  
Final wash  
Masking of interior surfaces/entryways  
Masking of moldings

## CCC/MOTOR

Waste disposal fees (all types)  
Weld through primer  
Welder set up and/or tests and preparation

### R&I Parts:

Aftermarket & OEM accessories  
Electrical wiring  
Emblems & nameplates  
GPS antenna  
Head airbags  
Header panels  
High-mounted stop lamp (back glass)  
Lamp (exterior)  
Luggage racks  
Overhead console  
Rear package tray trim  
Roof covers  
Roof rails  
Seats (headliner R&I)  
Wheel or hub cap locks R&I

### Refinish:

Anti-corrosion material application  
Cover/mask entire exterior of vehicle to prevent overspray  
Cover/mask interior of vehicle to prevent overspray damage  
Cover/mask for cut-in  
Cover/mask trunk/compartments to prevent overspray  
De-nib & polish  
Mask inner panels

## Mitchell

operation of vehicle systems when the battery has been D&R'd  
Time to reset memory code function  
Transfer time for welded/riveted/bonded brackets/braces/reinforcements  
Urethane glass kit

### R&I Parts:

Luggage rack  
New adhesive exterior trim; deduct one-half of R&R time  
Non original equipment  
Non-base model interior trim and/or rear seating (van/utility vehicles)  
Optional accessories  
Roof cap and/or vinyl cover  
Wiring and/or wiring harness

### Refinish:

Anti-corrosion material application  
Color match or tinting  
De-nib and finesse  
Feather, prime and block welded panels  
Featheredge paint damage to adj panel and/or panels joined by welding  
Finish sand and buff

# Roof (continued)



## Audatex

- Nib sanding/de-nib
- Paint and materials
- Refinish adj panels that may be damaged by welding
- Removal of protective coatings from replacement parts
- Second or third bagging or masking of vehicle
- Spray additional test panel
- Tint primer or clear coat

## CCC/MOTOR

- Masking of attached parts
- Paint and materials
- Protective coating material application
- Protective coating removal
- Test spray-out panel
- Test clear coat
- Tint primer-sealer
- Tinting to achieve color match
- Weld, grind or sanding damage to adjacent panels
- Welded seam surface finishing finer than 150 grit sandpaper
- Wet/dry sand, rub out and buff

## Mitchell

- Mask attached components, trim, stripes or decals
- Mask entryways
- Mask interior to prevent overspray damage
- Paint and materials
- Prime and block paint damage to adjacent panel and/or panels joined by welding due to burn damage
- Removal of protective coatings
- Subsequent vehicle bagging when required

# Deck Lid/Lift Gate



## Audatex

### Options:

Four stage  
Heated tailgate glass  
Rear camera  
Rear spoiler  
Rear wiper  
Two and three stage exterior  
Two and three stage interior

### Operations:

Additional labor for removal of parts (access labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Body materials  
Detailing  
Diagnosis and testing of electronic components or systems (e.g. airbags)  
Filling and finishing of unneeded holes  
Glass adhesive and sealant clean up (windshield/back glass)  
Glass kit (windshield/back glass)  
Glass or other collision debris cleanup (windshield/back glass)  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
Lock cylinder coding  
Metal preparation and corrosion protection (i.e. cavity wax)  
Removal of debris, grease, corrosion, protective coatings, or other materials  
Removal of part number labels  
Reset Electrical Components  
Restoration of corrosion-protective coatings  
Stripe removal  
Test drive to relearn system  
Trimming, repair, or modification of part

## CCC/MOTOR

### Options:

Clear coat  
Four stage  
Three stage

### Operations:

Alignment, check or straightening related parts  
Anti-Corrosion material restoration/application  
Battery D&R/recharge  
Broken glass removal or clean up  
Caulk (non-OEM) or sound insulate inner areas  
Clean up or detailing of vehicle prior to delivery  
Computer control module D&R/relearn  
Cutting, pulling or pushing damaged parts for access  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Glass kit (back glass) (liftgate)  
Information label installation  
Lock cylinder recoding  
Material costs  
Pre/post diagnostic scans  
Removal of old urethane (back glass) (liftgate)  
Reset electronic memory functions after battery d&r  
Road test vehicle  
Rusted, frozen, broken or corrosion damaged components or fasteners  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Seam sealer  
Sound deadening application  
Sprayable seamsealer equipment prep & adjustment before

## Mitchell

### Options:

Clear coat  
Four stage  
Three stage

### Operations:

Access time-remove extensively damaged parts by cutting, pushing, pulling, etc.  
Alignment of adjacent parts  
Broken glass clean up (liftgate only)  
Caulking/seam sealer test patterns or application of material to duplicate factory look, texture, and color  
Caulking/seam sealer masking  
Caulking/seam sealer set up and clean up of application tool  
Clean up old adhesive on undamaged urethane glass  
Clean vehicle to pre-accident condition.  
Complete computer relearn procedures for proper operation of vehicle systems  
D&R battery  
Drill holes for installing exterior trim  
Hazardous materials recycling or disposal  
Install stripes, decals, transfers or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Recode lock cylinder  
Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating or any type of added conditioning.  
Remove extensively damaged parts by cutting, pushing, pulling, etc.  
Repair/Align parts or adjacent to parts being replaced.

# Deck Lid/Lift Gate (continued)



## Audatex

## CCC/MOTOR

## Mitchell

application  
Stripe tape, decals or overlays  
Test for water leaks (except windshield, back glass and stationary glass)  
Undercoating, tar or grease removal  
Waste disposal fees (all types)

Reset memory code function  
Shop materials  
Time necessary to free up parts frozen by rust or corrosion.  
Time to aim/calibrate/diagnose/re-set/scan or test  
Time to complete computer relearn procedures for proper operation of vehicle systems when the battery has been D&R'd  
Time to reset memory code function  
Time to plug and finish unneeded holes on parts being installed.  
Transfer Time for welded/riveted/bonded brackets/braces/reinforcements  
Transfer undamaged urethane set glass (liftgate only)  
Urethane glass kit (liftgate only)

### R&I Parts:

Hinge from vehicle  
Moldings/Emblems  
Namplates/Ornaments  
Non-standard equipment not identified as options  
Specification labels  
Wiring

### R&I Parts:

Aftermarket & OEM accessories  
Back glass wiper or washer (liftgate)  
Bonded glass removal from damaged liftgate  
Brackets & braces transfer  
Camera  
Electrical wiring  
Emblems & nameplates  
Hinge  
Information label installation  
Moldings  
Spare tire carrier (liftgate)  
Special interior trim  
Spoilers & flares  
Stripe tape, decals or overlays

### R&I Parts:

Adhesive exterior trim; add to clean and retape (liftgate only)  
Decals  
Gas prop rod  
Glass motor (liftgate only)  
Hinge anchor plates (liftgate only)  
Hinges  
Install stripes, decals, transfers or overlays  
Luggage rack  
New adhesive exterior trim; deduct one-half of R&R time  
Non original equipment  
Optional accessories  
R&I adhesive exterior trim; add to clean and retape  
R&R new adhesive exterior trim; deduct one-half of R&R time  
Remove undamaged urethane set glass  
Spoiler  
Washers (liftgate only)  
Wiper (liftgate only)



# Deck Lid/Lift Gate (continued)



## Audatex

### Refinish:

- Anti-corrosion material application
- Application of e-coat equivalent
- Color sand and buff
- Color tint
- Final sand and buff
- Final wash
- Masking of interior surfaces/entryways
- Masking of mouldings and ornamentation
- Masking of trunk openings
- Nib sanding/De-nib
- Paint and materials
- Painted stripes
- Removal of protective coatings from replacement parts
- Second clear set up
- Second color set up
- Second or third bagging or masking of vehicle
- Spray additional test panel
- Tint primer or clear coat
- Two tone
- Underside refinishing

## CCC/MOTOR

### Refinish:

- Add for underside
- Anti-corrosion material application
- Cover/mask entire exterior of vehicle to prevent overspray
- Cover/mask interior of vehicle to prevent overspray damage
- Cover/mask for cut-in
- Cover/mask recessed edges/jambs/weatherstrips
- Cover/mask trunk/compartments to prevent overspray
- De-nib/wet sand and/or buff for polishing
- Filling, blocking, featheredging repaired panels
- Masking of attached parts
- Paint inner areas
- Paint and materials
- Painted on pinstripes
- Protective coating removal
- Test spray-out panel
- Tint clear coat
- Tinting primer-sealer
- Tinting to achieve color match
- Two tone color tinting
- Two tone refinishing
- Underside refinishing
- Wet/dry sand, rub out and buff

## Mitchell

### Refinish:

- Add for underside
- Anti-corrosion material application
- Color match or tinting
- De-nib and finesse outside surface area(s)
- Finish sand and buff
- Mask attached components, trim, stripes or decals
- Mask vehicle to prevent overspray damage
- Subsequent vehicle bagging when required:
- Mask trunk openings
- Paint and materials
- Removal of protective coatings
- Two tone
- Underside refinishing

# Rear Body Panel



## Audatex

### Options:

Two and Three Stage Exterior  
Two and Three Stage Interior

### Operations:

Additional labor for removal of parts (access labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Body materials  
Code lock Cylinder  
Detailing  
Diagnosis and testing of electronic components or systems (e.g., airbags)  
Disabling and enabling of Hybrid Vehicle components (i.e. high voltage systems, battery packs, and power cables)  
Disconnect/reconnect computer modules for welding purposes  
Disconnect and reconnect of un-deployed airbag  
Drain or refill fuel tank  
Filling and finishing of unneeded holes  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
Lock cylinder coding  
Metal preparation and corrosion protection (i.e. cavity wax)  
R&R of tape stripes or decals  
Removal of debris, grease, corrosion, protective coatings, or other materials  
Removal of panel bonding adhesive material  
Removal of part number labels  
Repair, fitting, or modification of new replacement parts (all less section)  
Repair panels distorted, burned or damaged by welding, drilling, grinding and straightening.  
Reset electrical components

## CCC/MOTOR

### Options:

Clear coat (gloss or matte)  
Three stage  
Two or three stage interior

### Operations:

Alignment, check or straightening related parts  
Anti-Corrosion material restoration/application  
Battery D&R/recharge  
Caulk (non-OEM) or sound insulate inner areas  
Clean up or detailing of vehicle prior to delivery  
Code Lock Cylinder  
Computer control module D&R/relearn  
Cutting, pulling or pushing damaged parts for access  
Disabling and enabling of Hybrid Vehicle components  
Disable SRS system  
Drain & refill fuel tank  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Lock cylinder recoding  
Material costs  
Panel bonded panel- additional panel fit  
Panel bonded panel- adhesive application  
Panel bonded panel- panel/vehicle preparation  
Pre/post diagnostic scans  
Remove electronics within 12" of welding zone  
Reset electronic memory functions after battery d&r  
Road test vehicle  
Rusted, frozen, broken or corrosion damaged components or fasteners  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Sound deadening application  
Sprayable seamsealer equipment prep & adjustment before application

## Mitchell

### Options:

Clear coat  
Three stage

### Operations:

Access time- remove extensively damaged parts by cutting, pushing, pulling, etc.  
Alignment of adjacent parts  
Aluminum panels materials - rivets, panel bonding, adhesives, bonding primer, EMC screws, flow drill screws  
Caulking/seam sealer test patterns or application of material to duplicate factory look, texture, and color  
Caulking/seam sealer as undercoating or sound deadening  
Caulking/seam sealer masking  
Caulking/seam sealer set up and clean up of application tool  
Clean & retape exterior trim (adhesive)  
Clean vehicle to pre-accident condition  
Code lock cylinder  
Complete computer relearn procedures for proper operation of vehicle systems  
Cut holes for installing lamps  
D&R battery  
Drain & refill fuel tank  
Drill holes for installing exterior trim  
Fabrication of reinforcements or inserts  
Hazardous materials recycling or disposal  
Install stripe tape, decals or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Recode lock cylinder  
Removal of tar, grease, or other materials  
Remove and/or apply anti-corrosion rust resistant materials  
Remove and/or apply weldable zinc primers, wax,

# Rear Body Panel (continued)



## Audatex

Restoration of corrosion-protective coatings  
Test drive to relearn system  
Transfer of misc. welded braces, brackets, and clips  
Trimming, repair, or modification of part  
Undercoating

### R&I Parts:

Body insulation (foam, pads)  
Body weatherstrips  
Exhaust system  
Fuel tank (add'l labor)  
Moldings/emblems  
Nameplates/ornaments  
Non-standard equipment not identified as options  
Power lock actuator  
Specification Labels  
Wiring harness

## CCC/MOTOR

Stripe tape, decal or overlays structural foam removal or application  
Test for water leaks (except windshield, back glass, and stationary gGlass)  
Test panel/spray caulk  
Undercoating, tar or grease removal  
Waste disposal fees (all types)  
Weld through primer  
Welder set up and/or tests and preparation

### R&I Parts:

Aftermarket & OEM accessories  
Brackets & braces transfer  
Camera  
Electrical wiring  
Emblems/Nameplates  
Energy absorber  
Exhaust system (M)  
Fuel tank  
Mouldings/Ornamentation  
Remove electronics within 12" of welding zone  
Suspension & drivetrain (fuel tank R&I)  
Trunk trim/liner (rear bumper R&I)  
Valance Panel

## Mitchell

petroleum based coatings, undercoating or any type of added conditioning.  
Remove extensively damaged parts by cutting, pushing, pulling, etc.  
Repair/Align parts or adjacent to parts being replaced.  
Reset memory code function  
Shop materials  
Time necessary to free up parts frozen by rust or corrosion.  
Time to aim/calibrate/diagnose/re-set/scan or test  
Time to complete computer relearn procedures for proper operation of vehicle systems when the battery has been D&R's  
Time to plug and finish unneeded holes on parts being installed.  
Time to R&I wiring and/or wiring harness and computer modules as necessary  
Time to reset memory code function  
Transfer time for welded/riveted/bonded brackets/braces/ reinforcements

### R&I Parts:

Adhesive exterior trim; add to clean and retape  
Computer module  
Exhaust system (fuel tank R&I)  
Exterior trim (adhesive)  
Fuel tank assembly  
Fuel Tank  
New adhesive exterior trim; deduct one-half of R&R time  
Non original equipment  
Optional accessories  
Quarter panel interior trim  
Skid plates (fuel tank R&I)  
Stripe tape, decals or overlays  
Suspension/drive train (fuel tank R&I)  
Wiring/Wiring harness

# Rear Body Panel (continued)



## Audatex

### Refinish:

- Anti-corrosion material application
- Any special coatings applied to luggage compartment
- Application of e-coat equivalent
- Application of "high build" primer
- Color tint
- Edges/jambs/undersides
- Final wash
- Masking of interior surfaces/entryways
- Masking of mouldings and ornamentation
- Masking of trunk openings
- Paint and materials
- Refinish adjacent panels that may be damaged by welding
- Removal of protective coatings from replacement parts
- Second clear set up
- Second color set up
- Second or third bagging or masking of vehicle
- Spray additional test panel
- Tint primer or clear coat

## CCC/MOTOR

### Refinish:

- Add for inside
- Anti-corrosion material application
- Cover/mask entire exterior of vehicle to prevent overspray
- Cover/mask for cut-in
- Cover/mask interior of vehicle to prevent overspray damage
- Cover/mask trunk/compartments to prevent overspray
- Cover/mask for prime and block
- Filling, blocking, featheredging repaired panels
- Mask inner panels
- Masking of attached parts
- Paint and materials
- Paint inner areas
- Prime & block (high build/primer-filler)
- Protective coating material application
- Protective coating removal
- Second color set up
- Stone chip guard application
- Stone chip guard texture matching
- Test spray-out panel
- Tint clear coat
- Tinting primer-sealer
- Tinting to achieve color match
- Weld, grind or sanding damage to adjacent panels
- Welded seam surface finishing finer than 150 grit sandpaper

## Mitchell

### Refinish:

- Add for edge and inside
- Anti-corrosion material application
- Additional application of soft chip primers or anti-chip undercoats
- Color match or tinting
- Feather, Prime & Block paint dmg to adj pnls and/or pnls joined by welding due to burn dmg
- Featheredge paint damage to adj panel and/or panels joined by welding
- Mask attached components, trim, stripes or decals
- Mask interior to prevent overspray damage
- Mask trunk compartment
- Paint and materials
- Prime & block paint damage to adjacent panel and/or panels joined by welding due to burn damage
- Removal of protective coatings
- Second Clear Setup
- Second color set up
- Subsequent vehicle bagging when required
- Tint non-exterior colors

# Rear Bumper



## Audatex

### Options:

Four stage  
Two or three stage exterior

### Operations:

Additional labor for removal of parts (access labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Detailing  
Diagnosis and testing of electronic components or systems (e.g., airbags)  
Filling and finishing of unneeded holes  
Hazardous waste removal  
Labor for drilling necessary to attach parts  
R&R of tape stripes or decals  
Removal of debris, grease, corrosion, protective coatings, or other materials  
Removal of part number labels  
Test drive to relearn system  
Trimming, repair, or modification of part

### R&I Parts:

Non-standard equipment not identified as options  
Ornamentation

## CCC/MOTOR

### Options:

Clear coat  
Four stage  
Lamps  
Three stage

### Operations:

Alignment, check or straightening related parts  
Clean up or detailing of vehicle prior to delivery  
Cutting, pulling or pushing damaged parts for access  
Drilling, modification or fabrication of mounting holes  
Filling, plugging/finishing of unneeded holes in new parts  
Material costs  
Pre/post diagnostic scans  
Rusted, frozen, broken or corrosion damaged components or fasteners  
Stripe tape, decals or overlays  
Waste disposal fees (all types)

### R&I Parts:

Aftermarket & OEM accessories  
Bridges & braces transfer  
Energy absorber, if mounted to frame rail (all types)  
Lamps (optional equipment, or not mounted to bumper) reverse sensor  
Trunk trim/liner  
Valance panel/spoiler (when not mounted to bumper)

## Mitchell

### Options:

Clear coat  
Four stage  
Trailer connector  
Trailer hitch  
Three stage

### Operations:

Access time - remove extensively damaged parts by cutting, pushing, pulling etc.  
Alignment of adjacent parts  
Clean vehicle to pre-accident condition  
Hazardous materials recycling or disposal  
Install stripes, decals, transfers or overlays  
Plug and finish unneeded holes on parts being installed  
Pre/Post repairs scans  
Removal of tar, grease, or other materials  
Shop materials  
Time necessary to free up parts frozen by rust or corrosion  
Time to aim/calibrate/diagnose/re-set/scan or test  
Transfer time for welded/riveted/bonded brackets/braces/reinforcements

### R&I Parts:

Adhesive exterior trim; add to clean and retape  
Impacts absorbers or mounting arms  
New adhesive exterior trim; deduct one-half of R&R time  
Non original equipment  
Optional accessories  
Trailer hitch  
Trailer connector

# Rear Bumper (continued)



## Audatex

### Refinish:

- Add'l prep or cleaning of new, unprimed panels
- Any application of base color beyond the third base coat
- Color tint
- Final sand and buff
- Final wash
- Mask mouldings
- Nib sanding/de-nib
- Paint and materials
- Removal of protective coatings from replacement parts
- Removal of release agents from raw, unprimed plastic components
- Second clear set up
- Second color set up
- Spray additional test panel
- Tint clear coat
- Two tone

## CCC/MOTOR

### Refinish:

- Adhesion promoter (unprimed flexible component)
- De-nib & polish
- Flex additive mixing time
- Flex prep application
- Masking of attached parts
- Paint and materials
- Protective coating removal
- Test spray-out panel
- Tint primer or clear coat
- Tinting to achieve color match
- Two tone color tinting
- Two tone refinishing
- Unprimed bumpers, removal of mold-release agents
- Wet/dry sand, rub out and buff

## Mitchell

### Refinish:

- Color match or tinting
- De-nib and finesse
- Finish sand and buff
- Mask attached components, trim, stripes or decals
- Paint and materials
- Raw substrate prep
- Removal of protective coatings
- Two tone

# Full Frame



## Audatex

### Options:

Automatic transmission  
Oil cooler  
Trailer brakes  
4x4  
Air conditioning

### Operations:

Additional labor for removal of parts (access labor)  
Adjust linkage  
Application of lubricant or similar material  
Bleed brakes (additional labor)  
Detailing  
Disconnect/reconnect computer modules for welding purposes  
Disconnect and reconnect of un-deployed airbag  
Drain and replace oil and fluids  
Drain or refill fuel tank  
Evacuate and recharge A/C system (additional labor)  
Filling and finishing of unneeded holes  
Labor for drilling necessary to attach parts  
R&I of Injected/Structural foam  
Refrigerant recovery (additional labor)  
Removal of debris, grease, corrosion, protective coatings, or other materials  
Removal of part number labels  
Reset electrical components  
Restoration of corrosion-protective coatings  
Rpr panels distorted, burned or damaged by welding, drilling, grinding and straightening.  
Test drive  
Test drive to relearn system  
Trimming, repair, or modification of part  
Wheel alignment (additional labor)

## CCC/MOTOR

### Options:

Automatic transmission  
Air conditioning  
Trailer brakes  
4x4

### Operations:

Alignment, check or straightening related parts  
Anti-corrosion material restoration/application  
Battery D&R/recharge  
Brakes adjust & bleed  
Caulk (non-OEM) or sound insulate inner areas  
Clean up or detailing of vehicle prior to delivery  
Computer control module D&R/relearn  
Cutting, pulling or pushing damaged parts for access  
Drain & refill fuel tank  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Fluids (top off)  
Parking brake adjust  
Pulling or straightening time  
Reset electronic memory functions after battery D&R  
Road test vehicle  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Shift & throttle linkage adjust  
Sprayable seamsealer equipment prep & adjustment before application  
Structural damage diagnosis and vehicle set up time  
Structural foam removal or application  
Test panel/spray caulk  
Undercoating, tar or grease removal  
Weld through primer

## Mitchell

### Options:

Power steering  
Automatic transmission  
Air conditioning  
Trailer brakes  
4x4  
Anti lock brakes  
Oil cooler

### Operations:

Adjust control linkage  
Bleed brakes if necessary  
Clean vehicle to pre-accident condition  
Complete computer relearn procedures for proper operation of vehicle systems  
Drain & refill fuel tank  
Evacuate and recharge Air Conditioning if so equipped and necessary  
Fabrication of reinforcements or inserts  
Refrigerant recovery if necessary  
Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating or any type of added conditioning.  
Remove extensively damaged parts by cutting, pushing, pulling, etc.  
Repair/Align Parts or adjacent to parts being replaced  
Reset memory code function  
Time necessary to free up parts frozen by rust or corrosion.  
Time to plug and finish unneeded holes on parts being installed.  
Transfer Time for welded/riveted/bonded brackets/braces/reinforcements  
Wheel alignment

# Full Frame (continued)



## R&I Parts:

Carpet rollback  
Interior bolted parts  
Interior trim panels  
Non-standard equipment  
R&I of non-standard equipment not identified as options  
Wiring harness R&I

## R&I Parts:

Aftermarket & OEM accessories  
Auxiliary fuel tank (second tank)  
Brackets & braces transfer  
Brackets (weld on)  
Electrical wiring  
Exhaust systems  
Heat shields  
Interior trim/carpet  
Power steering cooler  
Seats  
Special equipment transfer

## R&I Parts:

Auxiliary lamps  
Brush guard  
Computer module  
Fuel tank  
Interior trim  
Optional accessories  
Overhaul assemblies or replace parts of assemblies that are transferred  
Pull back carpet as required  
Seats  
Trailer connector  
Trailer hitch  
Transfer time  
Welded or riveted assemblies of the frame  
Wiring/Wiring harness

## Refinish:

Anti-corrosion material application  
Removal of protective coatings from replacement parts  
Second clear set up  
Second color set up  
Second or third bagging or masking of vehicle  
Tint primer or clear coat

## Refinish:

Anti-corrosion material application  
Cover/mask entire exterior of vehicle to prevent overspray  
Cover/mask for cut-in  
Filling, blocking, featheredging repaired panels  
Mask inner panels  
Masking of attached parts  
Paint inner areas  
Prime & block (high build/primer-filler)  
Second color set up  
Test spray-out panel  
Tinting Primer-Sealer  
Weld, grind or sanding damage to adjacent panels  
Welded seam surface finishing finer than 150 grit sandpaper  
Wet sanding

## Refinish:

Anti-corrosion material application  
Additional application of soft chip primers or anti-chip undercoats  
Color match or tinting  
Feather, prime & block paint dmg to adj pnls and/or pnls joined by welding due to burn dmg  
Second clear set up  
Second color set up  
Subsequent vehicle bagging when required:



# General Non Included



## ADHESIVES

Adhesive Kit  
Adhesive Remover  
Cavity Wax  
Door Skin Bonding Kit  
Foam Sealer Kit on Door  
Etch Primer  
Expansion Foam  
Intrusion Beam Adhesive  
Panel Bond Adhesive  
Seam Sealer  
Seam Sealer Tips  
Self Leveling Sealer  
Structural foam  
Undercoating  
Urethane Kit  
Weld Thru Primer

## ALUMINUM

Aluminum panels materials- rivets, panel bonding, adhesives, bonding primer, EMC screws, flow drill screws  
Dye test aluminum welds  
Panel bonded panel- additional panel fit  
Panel bonded panel- adhesive application  
Panel bonded panel- panel/vehicle preparation  
Panel bonded panel- sectioning insert/sleeve  
Stall cure time for adhesives on aluminum vehicles

## AIR CONDITIONER & HEATER

AC Compressor Oil  
AC Compressor Oil for Hybrids  
AC Machine for Hybrid Cars  
AC O Rings  
AC Trace Dye  
Evacuate & Recharge

Initialize Check Valve to bleed Coolant System  
Pressure Test/Purge Cooling System  
Protect Open AC Lines to Prevent Contamination  
Refrigerant recovery  
Refrigerant R-12  
Refrigerant R-134a  
Refrigerant 1234YF  
Set Back Radiator/Condenser  
Test AC for Freon Leaks

## BODY OPERATIONS

Access pulling or cutting  
Alignment of adjacent parts  
Application of lubricant or similar material  
Caulking/seam sealer test patterns or application of material to duplicate factory look, texture, and color  
Caulking/seam sealer as undercoating or sound deadening  
Caulking/seam sealer masking  
Caulking/seam sealer set up and clean up of application tool  
Clean and remove excess adhesive  
Clean and retape moldings/mudguards  
Drill time- antenna holes/body kit accessories/lic bracket  
Drilling, modification or fabrication of mounting holes  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Hang/test fit new parts  
Information label installation  
Loosen/pull back carpet  
Manual or electronic aiming of headlamps  
Plug and finish unneeded holes on parts being installed  
R&R/cut and trim sound deadener

Recode lock cylinder  
Removal of debris, grease, corrosion, protective coatings, or other materials impeding replacement, R&I, or refinishing of parts  
Removal of part number labels  
Remove and/or apply weldable zinc primers, wax, petroleum based coatings, undercoating, or any type of added conditioning  
Remove taped stripe  
Repair license plate  
Repair, fitting, or modification of new replacement parts  
Restoration of corrosion-protective coatings (e.g., galvanizing, zinc coatings, E-coat 'equivalent,' and other like materials)  
Seatbelt inspection  
Teardown time for total loss  
Time necessary to free up parts frozen by rust or corrosion  
Transfer time for welded, riveted or bonded brackets, braces or reinforcements  
Undercoating, tar or grease removal  
Water leak test

## CLEAN-UP/PROTECT

Clean & Degrease- Prior to Rpr  
Clean Engine Compartment  
Clean to Inspect  
Clean Up Airbag Residue  
Clean Up Broken Glass  
Clean Up Recy Parts  
Clean Vehicle for Delivery  
Clean Vehicle For Repairs  
Collision wrap - repairs in process protection  
Exterior Detail  
Interior Detail  
Protect convertible top during repair

Protect interior during repairs  
Steam cleaning of or rust removal from fuel tanks

## ELECTRICAL

Battery D&R/recharge  
Clean diagnostic codes  
Clear Codes  
Computer control module D&R/relearn  
Cutting and splicing of lamp wiring  
Diagnosis and testing of electronic components or systems (e.g., airbags)  
Disable/Enable Hybrid Codes  
Disabling and enabling of Hybrid Vehicle components (i.e. high voltage systems, battery packs, and power cables)  
Disarm Airbags  
Disconnect / reconnect computer modules for welding purposes  
D&R Battery  
D&R SRS components  
D&R Wiring Harness  
Loosen/pull back wiring harness  
Post-Scan - after repairs  
Pre/post diagnostic scans  
Pre-Scan - prior to repairs  
Remove electronics within 12" of welding zone  
Reset Airbags Light  
Reset auto liftgates  
Reset Check Engine Light  
Reset Memory Functions  
Reset Radio Code  
Reset soft closing doors  
Reset Tire Pressure Light  
Reset Window One Touch  
Reset/recalibrate autonomous braking

# General Non Included (continued)



Reset/recalibrate blind spot monitoring  
Reset/recalibrate camera/radar systems  
Reset/recalibrate steering angle sensor  
Repair Hitch Wiring  
Repair Wiring Harness  
Reset Steering angle sensor  
Test drive to relearn system  
Wiring repair

## FEES

Administration Fee for Total Loss  
Battery Disposal Fee  
Collision wrap - total loss protection  
Estimate Fee  
Hazmat Removal  
Hybrid Battery Disposal  
Solid Waste Removal  
Tire Disposal Fee

## FLUIDS

Brake fluid  
Coolant  
Differential fluid  
Freon  
Gear oil  
Motor oil  
Power steering fluid  
Transmission fluid  
Windshield washer fluid

## FRAME

Computerized frame measurements  
Diagnosis & set up time  
Jig rental  
Ref pinch welds  
Repair pinch welds before/after clamps  
Rough pull  
Setup of a vehicle on a frame machine,

dedicated bench, or other measuring /  
straightening devices  
Sheet metal pull  
Tram gauge measurements  
Unibody structural repair

## GLASS

Clean up old adhesive on undamaged  
urethane glass  
Clean up broken glass  
Epoxy primer on glass pinch weld where  
coating has been removed  
Glass kit

## MECHANICAL OPS

Alignment Shim  
Bleed Brakes w/Scan Tool  
Bleeding of brake, cooling, or hydraulic  
systems  
Diagnostic Work  
Drain & Refill Fuel Tank  
Flush & Fill Crankcase  
Flush & Fill Differential  
Flush & Fill Transmission  
Four Wheel Alignment  
Mount & Balance Wheel  
Mount & Balance Spare Wheel  
Purge/Bleed Power Steering System  
Pre Alignment  
Press Bearings  
Protect Open Fuel Lines  
R&I Brake/Fuel/Vacuum Lines  
Pre Alignment/Diagnostic Alignment  
Spin & Balance Wheel  
Steering column inspection  
Test Drive  
Thrust Angle Alignment  
Transfer & Store Fuel

Transfer TPMS  
Two-wheel alignment  
Valve stem  
Wheel weights  
Wheel or hub cap locks R&I

## REFINISH OPERATIONS

Black Out Refinish Panel  
Color Tint  
Second Color Tint  
Color Tint for Underside Match  
Corrosion Protection  
Cover Car/Bag  
Denib & Polish  
Feather Edge, Prime, & Block  
Fine Line Bumper Texture  
Finish Sand & Buff  
Flex Additive  
Gravel Guard/Schultz  
Let Down Panel  
Make Inner Structure Color  
Mask During Prime  
Mask During Cut in  
Mask Engine  
Mask Sunroof Opening  
Mask Beyond 36"/Jambs & Openings  
Precision Mask  
Prep Raw Plastic  
Prep Recy Parts for Refinish  
Removal of Mold Release Agent  
Remove Undercoating  
Repair Pre Existing Surface Problems  
Rope/Fine Line Back Glass  
Rope/Fine Line Windshield  
Rope/Fine Line Quarter Glass  
Rustproofing  
Spot Putty  
Spray Out Test Panel

Stone Chip Resistance  
Three Stage Paint  
Two Tone Paint

## WELDING OPERATIONS

Cover Interior From Welding Repairs  
Prep to Install Welded Panel  
Repair Adjacent Panel from welded panel  
removal distortion  
Set Up & Perform Destructive Test Welds  
Spin & Balance Wheel  
Test Drive  
Thrust Angle Alignment  
Transfer & Store Fuel  
Two Wheel Alignment  
Valve stem  
Wheel Weights  
Wheel Locks

## PARTS

Acid Brush  
Boron Drill Bits  
Body Repair Kit  
Bulbs  
Bumper Repair Materials  
Butyl Tape  
Clean Off Wheels  
Cut Off Wheels  
Door Edge Kit  
Double Sided Tape  
Eraser Wheel  
Fuses  
Roloc Discs  
Sound Deadener Material  
Tie Straps  
Wheel Opening Kit  
Wire Wheels

# General Non Included (continued)



## **PARTS R&I**

R&I aftermarket & OEM accessories  
R&I Bed Liner  
R&I Bug Shield/Deflector  
R&I Toolbox

## **REFINISH OPERATIONS**

Additional application of soft chip primers or anti-chip undercoats  
Black out refinish panel  
Clear coat (gloss or matte)  
Color tint  
Color tint for underside match  
Color tint non-exterior colors  
Corrosion protection  
Cover car/bag  
Cover/mask recessed edges/jambes/weatherstrips  
Denib & polish  
Edge refinish color tinting  
Edge refinishing  
Extend the application of clear to the nearest panel edge or breakpoint  
Feather edge, prime, & block  
Final wash  
Finish sand & buff  
Flex additive mixing time  
Flex prep application time  
Four stage paint  
Gravel guard texture match  
Gravel guard/schultz  
Grind, fill, & smooth welded seams (up to 150 grit sandpaper)  
Let down panel  
Make inner structure color  
Mask beyond 36"/jambes & openings  
Mask during cut in  
Mask during prime  
Mask sunroof opening

Masking of interior surfaces/entryways, engine compartment and trunk openings  
Matte/Flat refinished- texture matching  
Matte/Flat refinishes- perform test spray-out of let down panel  
Matte/Flat refinishes- tinting the matte clear to adjust level of gloss  
Panel stripping  
Precision mask  
Prep raw plastic  
Prime & block paint damage to adjacent panel and/or panels joined by welding due to burn damage  
Protective coating material application  
Protective coating removal  
Refinish adj panels that may be damaged by welding  
Removal of mold release agent  
Remove undercoating  
Repair pre-existing surface imperfections  
Rope/fine line fixed urethane glass  
Rustproofing  
Second color tint  
Second or third bagging or masking of vehicle  
Spot putty  
Spray out test panel  
Stone chip resistance  
Three stage paint  
Tinting primer/sealer/clear  
Two tone color tinting  
Two tone paint  
Underside  
Underside additional paint mix if it is a different color than the exterior

## **STRIPE-DECALS**

Black Out Tape - (Applique when it is a decal)  
Decals  
Painted Stripe

Stoneguard  
Stripe tape, decal & overlay- Adhesive backing removal, clean up and replace

## **TOWING/STORAGE**

Vehicle Storage  
Vehicle Storage (inside)  
Vehicle Sublet Towing

## **WELDING OPERATIONS**

Destructive weld testing  
Prep to install welded panels  
Protect interior from welding  
R&R acoustical and structural foam within 6" of open flame, excessive heat (600 degrees) or welding operation  
Repair adjacent panel from welded panel removal distortion  
Welder set up and prep