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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.

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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.

Provided as a member benefit from the Automotive Service Association.

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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- Information in the procedure pages may be superceded by vehicle footnotes.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 or Three Stage Exterior
- Two or Three Stage Interior

Operations:
- Aim Headlamps
- Additional labor for removal of parts (access labor)
- Alignment of parts adjacent to parts being replaced
- Detailing
- Filling and finishing of unneeded holes
- Labor for drilling necessary to attach parts
- Removal of debris, grease, corrosion, protective coatings, or other materials
- Removal of part number labels
- Trimming, repair, or modification of part

R&I Parts:
- Front License Bracket
- Front License Plate
- Impact Bar
- Moldings/Emblems
- Namplates/Ornaments
- Non-Standard Equipment
- Ornamentation

Refinish:
- Color sand & buff
- Color Tint
- Masking of moldings and ornamentation
- Nib Sanding/De-nib
- Preparation of a raw, unprimed part
- Removal of protective coatings from replacement parts
- Spray additional test panel
- Tint primer or clear coat
- Two Tone

CCC/MOTOR

Options:
- Clear
- Three Stage

Operations:
- Additional aligning or repair
- Clean up or detailing of vehicle prior to delivery
- 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
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Stripe tape, decals or overlays

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) frame)
- 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:
- De-nib/wet sand and/or buff for polishing
- Flex additive mixing time
- Flex prep application
- Masking of attached parts
- Test spray-out panel
- Tinting to achieve color match
- Two Tone
- Unprimed bumpers, removal of mold-release agents

Mitchell

Options:
- Auxillary/ Fog Lamps
- Brush Guard
- Clear Coat
- Fog Lamps
- Headlamp Washers
- Laser/Radar/Cruise Control
- Park Aid Sensors
- Spoiler

Operations:
- Install stripes, decals, transfers or overlays
- Aim Headlamps
- Clean vehicle to pre-accident condition.
- 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.
- 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

R&I Parts:
- Auxillary Lamps
- Brush Guards
- Fog Lamps
- Headlamp Washers
- Impacts Absorbers or Mounting Arms
- Laser/Radar Cruise Control Sensor
- 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
- Removal of release agent from OEM raw plastic components
- Two Tone

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# Headlamp Mounting Panel

## Audatex
**Options:**
- Two or Three Stage Exterior
- Two or Three Stage Interior

**Operations:**
- Additional labor for removal of parts (access labor)
- Aim headlamps
- Alignment of parts adjacent to parts being replaced
- Detailing
- Filling and finishing of unneeded holes
- Labor for drilling necessary to attach parts
- Removal of debris, grease, corrosion, protective coatings, or other materials
- Removal of part number labels
- Trimming, repair, or modification of part

**R&I Parts:**
- Moldings/Emblems
- Namplates/Ornaments
- Non-standard equipment

**Refinish:**
- Anti-corrosion material application
- Color Sand and Buff
- Color Tint
- Masking of moldings and ornamentation
- Nib Sanding/De-nib
- R&I or masking of moldings and ornamentation

## CCC/MOTOR
**Options:**
- Clear Coat
- 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
- Lamp aiming
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Stripe tape, decals or overlays

**R&I Parts:**
- Bumper assembly
- Aftermarket & OEM accessories
- Brackets & braces transfer

**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
- Test spray-out panel
- Tinting Primer-Sealer
- Tinting to achieve color match
- Two Tone

## Mitchell
**Options:**
- Clear Coat
- Three Stage

**Operations:**
- Aim lamps
- Clean vehicle to pre-accident condition.
- 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.
- 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

**R&I Parts:**
- Adhesive exterior trim; add to clean and retape
- Fenders
- Front Bumper
- 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
- Subsequent vehicle bagging when required:
  - Two Tone

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Audatex

Options:
Two or Three Stage Exterior  
Two or Three Stage Interior  
Hood Scoop

Operations:
Trimming, repair, or modification of part  
Additional labor for removal of parts (access labor)  
Alignment of parts adjacent to parts being replaced  
Application of lubricant or similar material  
Detailing  
Filling and finishing of unneeded holes  
Labor for drilling necessary to attach parts  
Removal of debris, grease, corrosion, protective coatings, or other materials  
Removal of part number labels  
Seamsealing

R&I Parts:
Hinge from vehicle  
Insulator pad  
Moldings/Emblems  
Nameplates/Ornaments  
Non-standard equipment  
Specification Labels  
Wiring

Refinish:
Anti-corrosion material application  
Color Sand and Buff  
Color Tint  
Masking of interior surfaces/entryways  
Nib Sanding/De-nib  
R&I or masking of moldings and ornamentation  
Removal of protective coatings from replacement parts  
Second or third bagging or masking of vehicle  
Spray additional test panel  
Tint primer or clear coat  
Two Tone  
Underside refinishing

CCC/MOTOR

Options:
Clear Coat  
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  
Fabricate templates, reinforcing inserts, sleeves or flanges  
Filling, plugging/finishing of unneeded holes in new parts  
Scan tool clear/reset electronic module  
Scan tool diagnostics  
Seamsealer  
Sprayable seamsealer equipment prep & adjustment before application

R&I Parts:
Aftermarket & OEM accessories  
Hinge  
Hood Lock  
Information label installation  
Moldings/Emblems  
Nameplates/Ornaments  
Stripe tape, decals or overlays

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 inner areas  
Test spray-out panel  
Tinting Primer-Sealer  
Tinting to achieve color match  
Two Tone  
Underside refinishing

Mitchell

Options:
Clear Coat  
Three Stage

Operations:
Clean vehicle to pre-accident condition.  
Drill holes for installing exterior trim  
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.  
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

R&I Parts:
Gas prop rod  
Hinges  
Insulator (Adhesive)  
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:
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 Vehicle to Prevent Overspray Damage  
Subsequent vehicle bagging when required:  
Two Tone  
Underside refinishing
Radiator Support

Audatex

Options:
- Air Conditioning
- Automatic Transmission
- Oil Cooler
- Two or Three Stage Interior

Operations:
- Aim headlamps
- Evacuate and recharge A/C system
- Filling and finishing of unneeded holes
- Labor for drilling necessary to attach parts
- Refrigerant recovery
- 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 to relearn system
- Trimming, repair, or modification of part

R&I Parts:
- Bumper overhaul
- Disconnect/connect of power steering lines
- Fuel vapor canister
- Fuse Box
- Non-Standard Equipment
- Relay
- Specification labels
- Wiring Harness

CCC/MOTOR

Options:
- Air Conditioning
- Clear Coat
- Transmission

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
- 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
- Reset electronic memory functions after battery d&r
- Road test vehicle
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Sprayable seamsealer equipment prep & adjustment before application
- Test panel/spray caulk
- Undercoating, tar or grease removal
- Weld through primer

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

Mitchell

Options:
- Air Conditioning
- Clear Coat
- Automatic Transmission
- Oil Cooler
- Skid Plate

Operations:
- Aim Lamps if attached to support
- Clean vehicle to pre-accident condition.
- Complete computer relearn procedures for proper operation of vehicle systems
- Fabrication of reinforcements or inserts
- 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

R&I Parts:
- Air Conditioning Components
- Belts
- Bolted Parts & assemblies
- Computer module.
- Cruise Control
- Decals
- Fan
- Fan Clutch
- Fenders
- Fluid reservoirs & coolers
- Front Bumper
- Front Header Panel
- Hood Panel
- Pulley
- Radiator Hoses
- Suspension assemblies
- Vapor Cannisters
- Wiring and/or wiring harness
Radiator Support (continued)

Audatex

Refinish:
- Anti-corrosion material application
- R&I or masking of mouldings and ornamentation
- Color Tint
- Masking of engine compartment
- Removal of protective coatings from replacement parts
- Second Clear Setup
- Second color set up
- Second or third bagging or masking of vehicle
- 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
- 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
- Tinting to achieve color match
- Weld, grind or sanding damage to adjacent panels
- Welded seam surface finishing finer than 150 grit sandpaper

Mitchell

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
- Second Clear Setup
- Second color set up
- Subsequent vehicle bagging when required

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**Audatex**

**Options:**
- Two or Three Stage Exterior
- Two or Three Stage Interior

**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
- Corrosion protection
- Detailing
- Drilling hole for antenna installation
- Filling and finishing of unneeded holes
- Labor for drilling necessary to attach parts
- Removal of debris, grease, corrosion, protective coatings, or other materials
- Removal of part number labels
- Seam sealing
- Trimming, repair, or modification of part

**R&I Parts:**
- Antenna assembly
- Battery
- Battery Tray
- Moldings/Emblems
- Namplates/Ornaments
- Non-standard equipment
- Stripe removal

**Refinish:**
- Anti-corrosion material application
- Chipguard
- Color Sand and Buff
- Color Tint
- Edging
- Masking of interior surfaces/entryways
- Nib Sanding/De-nib
- R&I or masking of moldings and ornamentation
- Removal of protective coatings from replacement parts
- Second or third bagging or masking of vehicle
- Spray additional test panel
- Tint primer or clear coat
- Two Tone

**CCC/MOTOR**

**Options:**
- Clear Coat
- 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
- Road test vehicle
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Undercoating, tar or grease removal

**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 refinishing
- 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 inner areas
- Stone Chip Guard
- Test spray-out panel
- Tinting Primer-Sealer
- Tinting to achieve color match
- Two Tone

**Mitchell**

**Options:**
- Clear Coat
- Three Stage

**Operations:**
- Aim lamps
- Clean vehicle to pre-accident condition.
- Cut holes for installing lamps
- Drill holes for installing exterior trim
- 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.
- 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

**R&I Parts:**
- Adhesive exterior trim; add to clean and retape
- Antenna
- Front Bumper
- Front Header Panel
- 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 refinishing
- Mask attached components, trim, stripes or decals
- Mask Vehicle to Prevent Overspray Damage
- Subsequent vehicle bagging when required:
  - Two Tone
**Audatex**

**Options:**
- Keyless Entry
- Mirrors
- Power Locks
- Two or Three Stage Exterior
- Two or 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
- Corrosion protection
- Detailing
- Excessive alignment required by the prior condition of the door opening
- Filling and finishing of unneeded holes
- Glass or other collision debris cleanup
- Labor for drilling necessary to attach parts
- Lock cylinder coding
- Removal of debris, grease, corrosion, protective coatings, or other materials
- Removal of part number labels
- Reset Electrical Components
- Test drive to realign system
- Trimming, repair, or modification of part

**R&I Parts:**
- Door striker
- Door-mounted speakers
- Moldings/Emblems
- Namplates/Ornaments
- Non-standard equipment
- Shoulder harness/Belt
- Sound deadener
- Specification labels R&I or replacement
- Stripe, woodgrain, or decal removal
- Transfer hinges

**CCC/MOTOR**

**Options:**
- Clear Coat
- 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
- 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
- Reset electronic memory functions after battery d&r
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Seamsealer
- Sprayable seamsealer equipment prep & adjustment before application

**R&I Parts:**
- Aftermarket & OEM accessories
- Back glass wiper or washer
- 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
- Spare tire carrier
- Stripe tape, decals or overlays

**Mitchell**

**Options:**
- Clear Coat
- Power Locks
- Power Windows
- Remote Mirror
- Three Stage

**Operations:**
- Recode lock cylinder
- Broken glass clean up
- Clean vehicle to pre-accident condition.
- Complete computer relearn procedures for proper operation of vehicle systems
- Drill holes for installing trim
- 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
- 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

**R&I Parts:**
- Decals
- Hinge anchor plates
- Hinges
- Install stripes, decals, transfer or overlays
- R&I Adhesive exterior trim: deduct one-half of R&R time
- R&R channels attached to glass
- Rear view mirror
Auditex

Refinish:
- Anti-corrosion material application
- Chipguard
- Color Sand and Buff
- Color Tint
- Masking of interior surfaces/entryways
- Nib Sanding/De-nib
- R&I or masking of mouldings and ornamentation
- Removal of protective coatings from replacement parts
- 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 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 inner areas
- Stone Chip Guard
- Test spray-out panel
- Tinting Primer-Sealer
- Tinting to achieve color match
- Two Tone

Mitchell

Refinish:
- Anti-corrosion material application
- Color match or tinting
- De-nib and finesse outside surface area(s)
- Finish sand and buff
- Gravel guard refinish
- Mask attached components, trim, stripes or decals
- Mask Vehicle to Prevent Overspray Damage
- Subsequent vehicle bagging when required:
- Two Tone
**Audatex**

**Options:**
- Keyless Entry
- Mirrors
- Power Locks
- Two or Three Stage Exterior
- Two or 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
- Detailing
- Filling and finishing of unneeded holes
- Glass or other collision debris cleanup
- Labor for drilling necessary to attach parts
- Removal of debris, grease, corrosion, protective coatings, or other materials
- Removal of panel bonding adhesive material
- 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

**R&I Parts:**
- Door-mounted speakers
- Moldings/Emblems
- Namplates/Ornaments
- Non-standard equipment
- Power door lock
- Shoulder harness/Belt

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**CCC/MOTOR**

**Options:**
- Clear Coat
- 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
- Drilling, modification or fabrication of mounting holes
- Fabricate templates, reinforcing inserts, sleeves or flanges
- Filling, plugging/finishing of unneeded holes in new parts
- Reset electronic memory functions after battery d&r
- Road test vehicle
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Sprayable seamsealer equipment prep & adjustment before application
- Weld thru primer

**R&I Parts:**
- Aftermarket & OEM accessories
- Back glass wiper or washer
- Body side moldings
- Brackets & braces transfer
- Emblems & nameplates
- Glass
- Hinge
- Lock cylinder recoding
- Mirror
- Moldings
- Regulator
- Reinforcement bar
- Stripe tape, decals or overlays

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**Mitchell**

**Options:**
- Clear Coat
- Power Locks
- Power Windows
- Remote Mirror
- Three Stage

**Operations:**
- Broken glass clean up
- Clean vehicle to pre-accident condition.
- Complete computer relearn procedures for proper operation of vehicle systems
- Drill holes for installing trim
- 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.
- Replace sound deadening
- 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

**R&I Parts:**
- Channels
- Glass
- Hardware
- Install stripes, decals, transfers or overlays
- Mirror
- 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
- Chipguard
- Color Sand and Buff
- Color Tint
- Edging
- Masking of interior surfaces/entryways
- Nib Sanding/De-nib
- R&I or masking of mouldings and ornamentation
- Removal of protective coatings from replacement parts
- 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 entire exterior of vehicle to prevent overspray
- Cover/mask for cut-in
- De-nib/wet sand and/or buff for polishing
- Edging
- Filling, blocking, featheredging repaired panels
- Masking of attached parts
- Masking of inner areas
- Stone Chip Guard
- Test spray-out panel
- Tinting Primer-Sealer
- Tinting to achieve color match
- Two Tone

**Mitchell**

**Refinish:**
- Anti-corrosion material application
- Color match or tinting
- De-nib and finesse outside surface area(s)
- Edging
- Finish sand and buff
- Gravel guard refinish
- Mask attached components, trim, stripes or decals
- Mask Vehicle to Prevent Overspray Damage
- Subsequent vehicle bagging when required:
  - Two Tone
### Audatex

**Options:**
- Ground Effects
- Mirrors
- Rear Antenna
- Rear Mudguards
- Two or Three Stage Exterior
- Two or Three Stage Interior

**Operations:**
- Restoration of corrosion-protective coatings
- 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
- Disconnect and reconnect of un-deployed airbag
- Drain or refill fuel tank
- Filling and finishing of unneeded holes
- Glass or other collision debris cleanup
- Labor for drilling necessary to attach parts
- R&I of Injected/Structural foam
- Removal of debris, grease, corrosion, protective coatings, or other materials
- Removal of part number labels
- Reset Electrical Components
- Rpr panels distorted, burned or damaged by welding, drilling, grinding and straightening.
- Test drive to relearn system
- Trimming, repair, or modification of part

**R&I Parts:**
- Antenna assembly
- Body insulation (e.g., foams, pads)
- Body weatherstrip
- Fuel tank
- Headliner
- Non-standard equipment
- Roll down quarter glass
- Sunroof drain
- Wiring harness

### CCC/MOTOR

**Options:**
- Clear Coat
- 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
- 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
- Panels inward of quarter
- Reset electronic memory functions after battery d&r
- Road test vehicle
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Sprayable seamsealer equipment prep & adjustment before application
- Structural foam removal or application
- Test panel/spray caulk
- Undercoating, tar or grease removal
- Weld through primer

**R&I Parts:**
- Antenna
- Computer module.
- Fuel Tank
- Install stripes, decals, transfers or overlays
- 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
- Wheel
- Window Moldings
- Wiring and/or wiring harness

### Mitchell

**Options:**
- Clear Coat
- Three Stage
- Vinyl Roof

**Operations:**
- Broken glass clean up
- Clean vehicle to pre-accident condition.
- Complete computer relearn procedures for proper operation of vehicle systems
- Cut holes for installing lamps
- Drain & refill fuel tank
- Drill holes for installing exterior trim
- Fabrication of reinforcements or inserts
- Remove and replace inner panels
- 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
- 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

**R&I Parts:**
- Antenna
- Computer module.
- Fuel Tank
- Install stripes, decals, transfers or overlays
- 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
- Wheel
- Window Moldings
- Wiring and/or wiring harness
Audatex

**Refinish:**
- Anti-corrosion material application
- Masking of mouldings and ornamentation
- Chipguard
- Color Sand and Buff
- Color Tint
- Masking of interior surfaces/entryways
- Nib Sanding/De-nib
- 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 entire exterior of vehicle to prevent overspray
- Cover/mask for cut-in
- Cover/mask interior of vehicle to prevent overspray damage
- Cover/mask trunk/compartment 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
- Prime & block (high build/primer-filler)
- Second color set up
- Stone Chip Guard
- Test spray-out panel
- Tinting Primer-Sealer
- Tinting to achieve color match
- Two Tone
- Weld, grind or sanding damage to adjacent panels
- Welded seam surface finishing finer than 150 grit sandpaper

Mitchell

**Refinish:**
- Anti-corrosion material application
- Color match or tinting
- De-nib and finesse outside surface area(s)
- Extension of Clear Coat
- 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
- Mask attached components, trim, stripes or decals
- Mask interior to prevent overspray damage
- Mask Vehicle to Prevent Overspray Damage
- Second Clear Setup
- Second color set up
- Subsequent vehicle bagging when required:
  - Two Tone
## Audatex

**Options:**
- Heated Tailgate Glass
- Rear Camera
- Rear Spoiler
- Rear Wiper
- Two or Three Stage Exterior
- Two or 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
- Detailing
- Filling and finishing of unneeded holes
- Glass or other collision debris cleanup
- Labor for drilling necessary to attach parts
- Lock cylinder coding
- Removal of debris, grease, corrosion, protective coatings, or other materials
- Removal of part number labels
- Reset Electrical Components
- Test drive to relearn system
- Trimming, repair, or modification of part

**R&I Parts:**
- Hinge from vehicle
- Moldings/Emblems
- Namplates/Ornaments
- Non-standard equipment
- Specification labels
- Wiring

## CCC/MOTOR

**Options:**
- Clear Coat
- 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
- 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
- Information label installation
- Lock cylinder recoding
- Reset electronic memory functions after battery d&r
- Road test vehicle
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Seamsealer
- Sprayable seamsealer equipment prep & adjustment before application
- Undercoating, tar or grease removal

**R&I Parts:**
- Decals
- Gas prop rod
- Hinge anchor plates
- Hinges
- Install stripes, decals, transfers or overlays
- Luggage rack
- 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
- Wiper

## Mitchell

**Options:**
- Clear Coat
- Three Stage

**Operations:**
- Broken glass clean up
- Clean vehicle to pre-accident condition.
- Complete computer relearn procedures for proper operation of vehicle systems
- Drill holes for installing exterior trim
- 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.
- 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

**R&I Parts:**
- Decals
- Gas prop rod
- Hinge anchor plates
- Hinges
- Install stripes, decals, transfers or overlays
- Luggage rack
- 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
- Wiper
Audatex

Refinish:
- Anti-corrosion material application
- Color Sand and Buff
- Color Tint
- Masking of interior surfaces/entryways
- Masking of mouldings and ornamentation
- Masking of trunk openings
- Nib Sanding/De-nib
- Removal of protective coatings from replacement parts
- Second or third bagging or masking of vehicle
- Spray additional test panel
- Tint primer or clear coat
- Two Tone
- Underside refinishing

CCC/MOTOR

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 inner areas
- Test spray-out panel
- Tinting Primer-Sealer
- Tinting to achieve color match
- Two Tone
- Underside refinishing

Mitchell

Refinish:
- 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 Vehicle to Prevent Overspray Damage
- Subsequent vehicle bagging when required:
  - Two Tone
  - Underside refinishing
## Rear Body Panel

### Audatex

**Options:**
- Two or Three Stage Exterior
- Two or Three Stage Interior

**Operations:**
- Code Lock Cylinder
- 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
- Disconnect and reconnect of un-deployed airbag
- Drain or refill fuel tank
- Filling and finishing of unneeded holes
- Labor for drilling necessary to attach parts
- 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 to relearn system
- Trimming, repair, or modification of part

**R&I Parts:**
- Body Insulation
- Body Weatherstrip
- Exhaust System
- Fuel System
- Mouldings/Emblems
- Nameplates/Ornaments
- Non-Standard Equipment
- Power Lock Actuator
- Specification Labels
- Wiring

### CCC/MOTOR

**Options:**
- Clear Coat
- Three Stage

**Operations:**
- Code Lock Cylinder
- Sprayable seamsealer equipment prep & adjustment before application
- 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
- 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
- Reset electronic memory functions after battery d&r
- Road test vehicle
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Structural foam removal or application
- Test panel/spray caulk
- Undercoating, tar or grease removal
- Weld through primer

**R&I Parts:**
- Aftermarket & OEM accessories
- Brackets & braces transfer
- Camera
- Electrical Wiring
- Emblems/Nameplates
- Energy Absorber
- Exhaust System (M)
- Fuel Tank
- Mouldings/Ornamentation
- Valance Panel

### Mitchell

**Options:**
- Clear Coat
- Three Stage

**Operations:**
- 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
- Drain & refill fuel tank
- Drill holes for installing exterior trim
- Fabrication of reinforcements or inserts
- 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

**R&I Parts:**
- Fuel Tank
- Computer module.
- Exterior Trim (adhesive)
- Stripe tape, decals or overlays
- Wiring/Wiring Harness
Audatex

Refinish:
- Anti-corrosion material application
- Color Tint
- Masking of interior surfaces/entryways
- Masking of mouldings and ornamentation
- Masking of trunk openings
- Removal of protective coatings from replacement parts
- Second Clear Setup
- Second color set up
- Second or third bagging or masking of vehicle
- Tint primer or clear coat

CCC/MOTOR

Refinish:
- 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/compartment to prevent overspray
- 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
- Tinting to achieve color match
- Weld, grind or sanding damage to adjacent panels
- Welded seam surface finishing finer than 150 grit sandpaper

Mitchell

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 interior to prevent overspray damage
- Second Clear Setup
- Second color set up
- Subsequent vehicle bagging when required:
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 Electronic 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
- Anti Lock Brakes
- Oil Cooler

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

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**Audatex**

**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

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

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**CCC/MOTOR**

**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

**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

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**Mitchell**

**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
- 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 Setup
- 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
Undercoating
Urethane Kit
Weld Thru Primer

ALUMINUM
Dye Test Aluminum Welds
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 R-12
Refrigerant R-134a
Refrigerant 1234YF
Set Back Radiator/Condenser
Test AC for Freon Leaks

CLEAN-UP
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
Exterior Detail
Interior Detail

ELECTRICAL
Clear Codes
Disable/Enable Hybrid Codes
Disarm Airbags
D&R Battery
D&R SRS components

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

MECHANICAL OPS
Alignment Shim
Bleed Brakes w/Scan Tool
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&R Brake/Fuel/Vacuum Lines
Pre Alignment/Diagnostic Alignment
Spin & Balance Wheel
Test Drive
Thrust Angle Alignment
Transfer & Store Fuel
Two Wheel Alignment
Valve stem
Wheel Weights
Wheel Locks

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

BODY OPERATIONS
Access Pulling or Cutting
Access to Inspect
Add to O/H Recy Parts
Apply/Remove Seamsealer
Clean & Remove Excess Adhesive
Clean & Retape Body Side Moldings
Clean & Retape Mudguard
Collision wrap - repairs in process protection
Corroded/Frozen Parts Labor
Cut & Trim LKO Rocker/Pillar/Quarter/Bedside Panel
Cut & Trim LKO Pillar Panel
Drill Time- Antenna Holes/Body Kit Accessories/Lic Bracket
Hang/Test Fit New Parts
Loosen/Pull Back Carpet
Loosen/Pull Back Cooling Lines
Loosen/Pull Back Wiring Harness
Non-OEM Parts Fit/Test Fit
Pinch Weld Damage From Clamps
Plug & Finish Unnecessary Holes
Prep Panels for Glue
Prep Panels for Welding
Protect Conv’t Top During Repair
Protect Electronics

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Protect Interior During Repairs
Remove Accessory Items
Remove/Repl Sound Deadener
Remove Taped Stripe
Repair License Plate
Repair Rcy Parts
Seatbelt inspection
Sleeve Panel
Tear Down Time For Total Loss
Transfer Components Time- Brackets, etc
Trim & Fit Sound Deadener Pads
Water Leak Test
R&I Glass (door skin replacement)

**FLUIDS**
- Brake Fluid
- Coolant
- Differential Fluid
- Freon
- Gear Oil
- Motor Oil
- Power Steering Fluid
- Transmission Fluid
- Windshield Washer Fluid

**FRAME**
- Diagnosis & Set Up Time
- Repair Pinch Welds
- Ref Pinch Welds Before/After Clamps
- Rough Pull
- Set Up & Measure
- Jig Rental
- Sheet Metal Pull
- Unibody Structural Repair

**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
- Body Repair Kit

**PARTS R&I**
- R&I Bed Liner
- R&I Bug shield/Deflector
- R&I Toolbox

**STRIPE-DECALS**
- Black Out Tape- (Applique when it is a decal)
- Decals
- Painted Stripe
- Stoneguard

**TOWING/STORAGE**
- Vehicle Storage
- Vehicle Storage (inside)
- Vehicle Sublet Towing