

USED PARTS GUIDE

Version 3.3

November 4, 2000

Developed at the ARA Standard Guide to Used Parts

ARA Interchange Committee Notes

This standard is intended to promote commerce in used automotive parts and as a guide for interchange development. The Automotive Recycling Association's goal is to create a unified description of used parts, thereby promoting all forms of commerce in automotive recycling. This standard is designed to be used across all electronic platforms and computer systems.

To reach this goal all parties selling, buying and installing used parts need the common language represented by this standard. Those developing products, services, interchange or evaluations containing used parts are encouraged to use the standard. The ARA has created this standard as an inclusive, cooperative effort between everyone interested in used automotive parts, interchange standards and recycling.

For each used part assembly, this document gives a complete description of what is included with the assembly as delivered for reuse. In addition, there is a description of what is not included, but may be additionally available depending on how the source vehicle was optioned. There are comments and footnotes to clarify the reasons why the used part assembly is prepared for reuse in the way described.

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HEATING AND A/C SYSTEM

Assembly	Included Components	Not Included, But May Be Available	Comments
A/C Condenser	Core and Brackets permanently affixed to the Condenser	Electrical Sensors, Switches, Valves, Dryers, Filters, Shrouds, and Cooling Motors	Note: Flush Condenser and change Dryer when servicing Refrigerant
Heater, Vent, Air-Conditioning Housing (HVAC)	Housing Assembly and Integrated Sensors and Wires	Blower Motor, Heater Core, Evaporator Core, and Removable Electrical Components	
Blower Motor	Blower Motor and Fan to first electrical disconnect	Case Assembly and Power Leads	
Heater Core	Heater Core	Pipes, Hoses, Clamps and Cover	
Evaporator Core	Evaporator Core	Pipes, Hoses, Clamps, Dryer and Filter	A/C Dryer is a service part and is not sold used

ICAR UPCR Codes AC01

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BRAKE SYSTEM

Assembly	Included Components	Not Included, But May Be Available	Comments
Front Hub & Rotor	All variations of Front Brakes as removed including Rotors and Hub if attached to Rotor	Vehicles may not have Hub included if easily detached from assembly	
Rear Hub & Rotor	All variations of Rear Brakes as removed including Drum and Rotor	Vehicles may not have Hub included if easily detached from assembly	
Hub	See Suspension		
Front Or Rear Disc Caliper	Complete up to Hose	ABS Sensor, Mounting Bracket or Support and Emergency Brake Cable	
Master Cylinder	Master Cylinder Reservoir, Cap & Integrated Sensor	ABS System Brake Lines as detached from Master Cylinder	
Antilock Brake Assembly	Accumulator, Modulator and Pump	ABS Computer Mounting Bracket and Brake Lines	
Accumulator	Accumulator, not integrated with Modulator and Pump	Mounting Brackets	
Modulator	Modulator, not integrated with Accumulator and Pump	Mounting Brackets	
Pump Motor	Pump Motor, not integrated with Accumulator and Modulator	Mounting Brackets	
Antilock Brake Electronic Control Module	Wires to the first disconnect		

ICAR UPCR Codes BR11, BR51, BR71

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BUMPER

Assembly	Included Components	Not Included, But May Be Available	Comments
Steel Bumper Front Or Rear	Guards, Pads, Unbolt Reinforcement, Energy Absorbers, Mounting Brackets, Lamps (if Bumper Mounted), End Caps, Step Plates, Fillers (if Bumper Mounted)	Valance Panel or Air Dam are not included unless they are an integrated part of the Bumper Assembly	Be aware of extra options such as fog lamps and extra brackets or trailer hitches.
Rubber Fascia	Cover, Absorber Pad, Unbolt Reinforcement, Lamps (if Fascia Mounted), End Caps, Fillers and Retainers if Fascia Mounted	Valance Panel or Air Dam are not included unless they are an integrated part of the Bumper Assembly	Fascia mounted lamp options can change the shape of the entire part. Check for these before ordering.

ICAR UPCR Codes BU01S, BU02P, BU11S/P, BU21, BU22

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COOLING SYSTEM

Assembly	Included Components	Not Included, But May Be Available	Comments
Water Pump	Water Pump	Pulleys and Brackets	
Radiator	Core, Tanks, Internal Oil Coolers and permanently affixed fixtures	Shrouds, Cooling Motors, Hoses, Fittings, Electrical Sensors, Switches, Pressure Cap, Cooling Lines and Fan Blades	Some attached Sensors and Switches may be included but may not be required
Electric Cooling Assembly	Motor, Shroud, Integral Mounting Brackets, Fan Blade up to first disconnect		The entire assembly is sold complete as removed from the radiator support.
Fan Blade	Integral Clutch	Removable Clutch	
Removable Fan Clutch	Fan Clutch	Fan Blade	
Fan Shroud	Shroud		
Cooling Motor	Motor and Wire to first disconnect	Fan Blade, Shroud, Mounting Bracket	

ICAR UPCR Codes CO01, CO11, CO21, CO22

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DOOR

Assembly	Included Components	Not Included, But May Be Available	Comments
Door Left or Right, Front or Rear, Sliding, Cargo and Back Door	Glass, as optioned, ¹ door-mounted weather-strips, regulator motor (if power), lock hardware (if power), outside handle, half of hinges if welded to door.	Moulding ¹ , pillar-welded hinges, pillar-mounted weather-strips, lock cylinder, interior trim panel, pillar-mounted latch, mirror, wiring harness and in door safety restraints (seat belts).	<p>Not enough is known about mirrors to permit the part to be properly included.² Safety restraints (seat belts) in the door are not included because they are part of the interior trim, with color and option variations.³</p> <p>See attached inventory description standard for option description codes.</p> <p>See attached damage location standard for locating damage.</p>

ICAR UPCR Cods DO01, DO21, DO22, DO31S/A/P

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ELECTRICAL ACCESSORIES

Assembly	Included Components	Not Included, But May Be Available	Comments
Battery	Battery	Cables	Fuesable links, if present, are part of the cables.
Starter	Starter Integral Solenoid	Non Integral Solenoid, Heat Shield	
ECM (Electronic Control Module)	ECM Unit and Wire to first disconnect	ECM Prom	In most cases the Prom should be exchanged with the one in the removed unit. Follow repair recommendations from the manufacture.

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ENGINE DRIVE TRAIN

Assembly	Included Components	Not Included, But May Be Available	Comments
Engine Assembly	Complete Engine as removed from the vehicle including Cylinder Heads as optioned	Alternator-Pulley-Regulator, Alternator Wiring Harness, Power Steering Pump, Power Steering Hoses, Power Steering Reservoirs, Power Steering Pulley, Starter-Solenoid, Engine Mounts, Engine Mounted Igniter and Fuel System	Engines may require exchange of manifolds, fuel systems, or oil pans to be installed.
Engine and Transmission Mounts	Complete Unbolted Unit	Welded or Bolted on Frame or Body Brackets	Engine Frame is a separate part.
Automatic Transmission	Converter, Electrical up to first disconnect	Linkage and Cables	External computers may be included in some cases.
Manual Transmission	Electrical up to first disconnect	Shift Levers, Cables, Removable Clutch Housing, Clutch Slave Cylinder	
Transfer Case	Complete with Internal Electronics up to first disconnect	Divider Housing (Transfer Case Adapter) and Externally Mounted Electronic Components (Shift Motor)	Pinion flange may not match – change as needed.
Driveshaft, front or rear	Complete to Axle and includes CV-Joint, U-Joint and Slip Yoke	Pinion flanges are part of the axle assembly and not the drive line.	
Front Or Rear Integral Differential	Housing to Backing Plates or Knuckles, Axles, Internal Gears, Electronic Control Units to first disconnect and Pinion Flange	Removable Axles and External Electrical Control Units, Drums, Disks, Brake Hardware, Control Arms, Track Arms and Sway Bars	Gear ratios will differ and will need to be matched. Companion Flange may not match - change as needed. Specify if locking is required. Front or Rear Integral Differential does not have drop out Carrier Assembly. Gears must be removed separately.

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Carrier Assembly	Complete Gear Set and Case with Non-removable Stub Axles and Flanges	Removable Axles and External Electrical Control Units, Drums Disks, Brake Hardware, Control Arms, Track Arms and Sway Bars	Gear ratios will differ and will need to be matched. Specify if locking is required. Companion Flange may not match - change as needed.
Front Or Rear Integral Differential, Independent Suspension	Housing, Non-removable Axles, Internal Gears, Electronic Control Units to first disconnect and Pinion Flange	Removable Axles and External Electrical Control Units, Drums, Disks, Brake Hardware, Control Arms, Track Arms and Sway Bars	Gear ratios will differ and will need to be matched. Specify if locking is required. Companion Flange may not match - change as needed.

ICAR UPCR
Codes

DT01, DT11, DT21

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EXHAUST SYSTEM

Assembly	Included Components	Not Included, But May Be Available	Comments
Exhaust Manifold	Exhaust Manifold	Tailpipe, Muffler, Header Pipe and Oxygen Sensors	Catalytic Converters are typically not sold used because of Federal Clean Air Regulations, preventing reuse of untested units.
Header Pipe	Pipe, flanges, and connectors including Oxygen sensor, electrical up to first disconnect.	Header pipes go between the exhaust manifold and the catalytic converter, and are after any turbo charger.	

ICAR UPCR Codes EX01, EX11

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FENDER

Assembly	Included Components	Not Included, But May Be Available	Comments
Full Frame: Fender Left Or Right	Full Frame: Bolted on Inner Panel and Inner Skirt, Lamps attached on the side and Fender Mounted Splash Shields.	Full Frame: Moldings, Extensions which are part of Header or Headlight and Antenna.	Extensions that are part of the Header and Headlight Assembly are not included with the Fender. Not enough information about Antennas is known to automatically select the correct part.
Unitized Frame: Fender Left Or Right	Unitized Frame: Lamps attached on the sides, Unboltable Inside Skirts, Extensions and Fender Mounted Splash Shields.	Unitized Frame: Inner Sheet Metal, Moldings, Extensions which are part of Header or Headlight and Antenna.	Inner Fender Partial Cut see ARA Standard Cut Lines #5. For Full Cut see #1
Antenna	Complete antenna assembly.		May be power or manual.

ICAR UPCR Codes FR01S/A, FR11S/A, FR21P

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FRONT END ASSEMBLY

Assembly	Included Components	Not Included, But May Be Available	Comments
Front Section	Full Frame Vehicle: Front Bumper Assembly (see front bumper), Fender L&R (see fender), Hood (see hood), Header Panel (see header panel), Grille (see grille), Valance Panel, Bolt-on Radiator Support, Radiator, Condenser and Attaching Filters.	Frame Rails, Frame Horns, Sub-frame, Cross-members, Suspension Components, Molding ⁽¹⁾ , Ornaments, Bolted-on Parts on Inner Structure, Antenna and Equipment bolted to the Inner Fender Skirts, including the Engine Cooling Fan Assembly	Moldings are not included because there is not enough information about the part to automatically select the correct one ⁽¹⁾ . Antennas are not included for the same reason. See ARA Standard Cut Lines Guide chart #1
Full Cut ⁽⁴⁾	Unitized Frame Vehicle: Including Cowl: All Inner Sheet Metal including Aprons/Rail beyond factory joints.		See ARA Standard Cut Lines Guide chart #1
Partial Cut ⁽⁴⁾	Excluding Cowl: Cut anywhere ahead of Firewall	Unitized Frame parts do not include rear portion of Frame Components	See ARA Standard Cut Lines Guide chart #5
Header Panel	Grille, Lamps, Lamp Doors (if Header Mounted) and Mounting Brackets.	Molding (Emblem and Ornament)	
Grille	Attaching Brackets, Lamps/Fillers (if Grille Mounted)	Molding (Emblem and Ornament)	

ICAR UPCR Codes FE01S

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FUEL SYSTEM

Assembly	Included Components	Not Included, But May Be Available	Comments
Fuel Tank	Fuel Tank	Fuel Lines, Tank Mounted Pump. Non-integral Filler Neck, Sending Unit and Mounting Straps	
Fuel Pump	Fuel Pump, Integral Sending Unit to first electrical disconnect		
Lines	Lines to first disconnect		
Sending Unit	Non-integral with Pump		
Tank Switch Valve	Valve and wiring up to first disconnect.	Switch and wires.	Complete second fuel tank add on kits are available.

ICAR UPCR Codes FU01, FU02, FU03, FU11, FU21

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HOOD

Assembly	Included Components	Not Included, But May Be Available	Comments
Hood Panel	Insulator as optioned, Latches, Catches, Hinges if attached to Hood on removal	Prop, Header or Core Support Mounted Latches and Catches, Moldings, Emblems and Ornaments	Emblems and Ornaments may be available, but there is not enough information about the part available to automatically select the correct one
Hood Latch	Safety catch, and mounting bracket.	Release cable.	

ICAR UPCR Codes HO01, HO11, HO21S/A/P

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INSTRUMENT PANEL

Assembly	Included Components	Not Included, But May Be Available	Comments
Dash Assembly	Complete removed Dash Assembly including all Vents, Switches and Face Plates not attached to the Sound System	Not included are the Radio Face Plate, Climate Control and any vehicle attached duct work, the Instrument Cluster, Air Bag Assembly, Dash Pad, Wiring Loom and Switches as they detach from the vehicle at their first disconnects.	Radio Face Plate may or may not be part of the Radio depending on construction. Dash Wiring Loom is a separate part
Instrument Cluster	Complete instrument cluster assembly including printed circuit board and lighting up to first disconnect.	Dash pad, speedometer cable, wiring harness, and dash assembly.	

ICAR UPCR Codes IP01, IP11

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LAMPS

Assembly	Included Components	Not Included, But May Be Available	Comments
Headlight: Composite	Housing, Bezel, Lens and Trim	Bumper Filler, Fender Extensions, Non Integrated Wire Harness, Printed Circuits and Headlight Bulb.	Wire Harness and Snap Out Printed Circuits are sold as a separate part
Headlight: Capsule Type	Housing (when serviced separately), Headlight Bulb, Bucket & Ring, Bezel, Park-light or Sidelight when contained within Bezel.		
Headlight Mounting Panel	Headlight Adjustment Mechanism	Brackets, Headlight Assembly, Park-lights and Grille	

ICAR UPCR Codes LA01, LA11, LA21, LA22, LA23,
LA31, LA32

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MOVABLE GLASS

Assembly	Included Components	Not Included, But May Be Available	Comments
Glass: Door	Trim (as supplied by OEM), Wires to first disconnect, Riveted Parts and Adhesively Attached Parts.	Handles, Hinges, Mirrors, Deflectors, Window Regulators and any Bolted-on parts	Rivets may need to be removed and replaced to facilitate installation
Glass: Quarter	Trim (as supplied by OEM), Wires to first disconnect, Riveted Parts and Adhesively Attached Parts.	Handles, Hinges, Deflectors, Window Regulators and any Bolted-on parts	Rivets may need to be removed and replaced to facilitate installation

ICAR UPCR Codes MG01, MG11, MG21, MG31,
MG32, MG41, MG51

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QUARTER PANEL

Assembly	Included Components	Not Included, But May Be Available	Comments
Quarter Panel (Section) Left Or Right	All Inner Sheet Metal, Extensions, Fuel Door as optioned, Lock Pillar, Mud Guards or Fillers if attached and attached Side Lamps.	Moldings, Interior Trim, Safety Restraints, Fuel Tank or Neck and any Rear Facing Lamps.	Rear Facing Lamps are a separate part. See ARA Standard Cut Lines Guide #4
Quarter Trim Left or Right	Trim, clips, and end caps.	Glue on trim or decals.	Trim is identified by part numbers.

ICAR UPCR Codes QT01S/A/P, QT11S/A

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REAR BODY PANEL

Assembly	Included Components	Not Included, But May Be Available	Comments
Short Rear Body Assembly	Both Quarters, Rear Body Panel, Inner Structure, Trunk Lid, Lamps, Reflectors and Bumper. In Uni-Body Vehicles the Rail Structures are included.	Fuel Tank, Roof Rack, Spare Tire Carrier, Rear Suspension, Antenna, Glass, Seats, Interior Trim, Safety Restraints, Moldings, Spoilers, Luggage Racks ¹ and Full Frame Car Frame Section.	In Full Frame Vehicles the Frame Rails are not included. See Standard Cut lines #2
Long Rear Body Assembly And Roof	Both Quarters, Roof, Rear Body Panel, Inner Structure through the floor, Truck Lid, Lamps, Trunk Lid, Reflectors, Bumper and Glass (as optioned.)	Fuel Tank, Roof Rack, Spare Tire Carrier, Rear Suspension, Antenna, Seats, Interior Trim, Safety Restraints, Moldings and Spoilers. ¹	In Full Framed Vehicles the Frame Rails are not included. Glass as optioned means that all Glass is delivered as Source Vehicle was built and Glass type must be verified to get correct delivery. ¹ See Standard Cur Lines #1

ICAR UPCR Codes RB01S/A

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REAR CLOSURE PANEL

Assembly	Included Components	Not Included, But May Be Available	Comments
Deck Lid & Tailgate	Lid-Mounted weather-strips, Lid-Mounted Latches, Locks, Half of Hinges if welded to Lid, Lamps or Reflectors is Lid Mounted, Defogger (if Optioned), Wiper or Wiper Motor (if optioned), Glass as optioned ¹ , Defogger (if optioned), Wiper/Wiper Motor (if optioned), Glass weather-strip, Gate-Mounted weather-strips, Gate-Mounted Latches, Locks, Gate-Mounted Lamps or Reflectors, or Exterior Trim Panels, License Bracket and half of Hinges if Bolted-on	Mouldings ¹ , Fillers, Lock Cylinder, Interior Trim Panels, Rear Body Panel-Mounted Latches/Locks, Wiring Harness, Spoilers, Luggage Racks and Spare Tire Carrier	Spare Tire Carriers are a separate part ⁴ . Variations in body option codes do not permit the correct Spoilers and Luggage Racks to be supplied ³

ICAR UPCR Codes RC01SA/P, RC11S/A/P, RC21S/A/P, RC31S/A/P

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RESTRAINT SYSTEM

Assembly	Included Components	Not Included, But May Be Available	Comments
Seat Belt (Motorized Assembly)	Belt, Retractor Unit, Motor up to first electrical disconnect and Track Assembly		Color as optioned
Airbag	Airbag Module, Cover as optioned	Cover Non-Integrated, Clock Spring Sensor, Computer, Color as needed	Color as optioned
Tensioners - Active Unit			
Integrated Rear Safety Seat			Since it is an integrated part of the Rear Bench Seat, the Bench Seat must be purchased for this option
Seat Belt (Non-Motorized)	Seat Belt and Retractor Unit		Color as optioned

ICAR UPCR Codes RE01, RE11, RE21, RE22, RE31,
RE32, RE41, RE51

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ROOF PANEL

Assembly	Included Components	Not Included, But May Be Available	Comments
Roof	Sunroof Panel or Glass as optioned with weather-strips, Motor, Roof Rails and Roof Panel Track Mechanism. Sunroof Exterior Metal Panel or Glass	Drip or Scalp Moundings ¹ , Headliner, Safety Restraints, Back Glass, Windshield, T-Top, Vinyl Covering and Luggage Rack	T-Tops are separate parts. ⁴ Not enough information about Vinyl Roof Covering options is known to supply the correct part. ² <small>Cut line #3</small>

ICAR UPCR Codes RO01S/A, RO02S/A, RO11

SEATS

Assembly	Included Components	Not Included, But May Be Available	Comments
Seat	Seat and Track if integral, Integrated Power Track, Motor and Controls if on Seat. Seat Belts and Retractors made into Seat.	Seat Track if removable, Controls if not part of Seat, Seat Belts if not part of Seat.	
Track	Integrated Motor, Transmission Cables, Electrical Wiring up to first disconnect.	Seat and Controls that are not part of Track Assembly.	

ICAR UPCR Codes SE01, SE11

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STRUCTURAL PARTS

Assembly	Included Components	Not Included, But May Be Available	Comments
Complete Bare Frame	Bare Frame	Bolted-on Components and Cross-members, Engine Mounts, Transmission Mounts	
Bolted Radiator Core Support	Radiator Core Support		
Welded Radiator Core Support	Upper & Lower Tie Bars and Side Panels	Partial upper & lower Unibody Side Rails & Aprons for Welded Units	
Side Rail Assembly	Rail, (upper), Front Strut Tower & Apron, Rail (front lower)	Upper Wheel House Extension, Radiator Support, Front Panel, Battery Tray, Lower Reinforcement, Support Assembly, Apron Assembly	
Rocker Panel	Complete Assembly	Pillar Assemblies with Molding and Retainer, Rocker Panels, Pillars	See ARA Standard Cut Lines Guide #5 - order as needed
"A"-Pillar	Front Door Hinge Pillar including partial W/S Pillar, Cowl, Rocker, Welded on Door Hinge	Exact dimensions are as required	See ARA Standard Cut Lines Guide #6 - order as needed
"B"-Pillar	Center Pillar Assembly to Roof Partial Rocker Panel and Floor Panel as needed	Roof Panel, Rockers and Floor Panel	See ARA Standard Cut Lines Guide #6 - order as needed
"C" "D" Pillar – See Quarter Panel			See ARA Standard Cut Lines Guide #4 – order as needed
Removable Sub-Frame (Engine Cross-member)	Removable Sub-Frame or Engine Cross-member for the Engine	Sway Bars, Torsion Bars, Suspension and Engine Mounts	Sway Bars are included only as optioned
Cross-member (Removable)	Cross-member (removable)	Bolted-on Brackets and Mounts	

ICAR UPCR Codes SP01S/A, SP05S/A, SP06S/A,
 SP08S/A, SP11S/A, SP21S/A,
 SP22S, SP31S/A, SP41S/A, 51S/A,
 SP71S/A, SP91S/A

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STEERING

Assembly	Included Components	Not Included, But May Be Available	Comments
Steering Gear	Steering Gear	Pitman Arm, Coupler, Intermediate Shaft and Mounting Brackets	
Long Rack & Pinion	Tie Rods and Ends Assemblies with Integral Electrical Controls up to first disconnect	Coupler and Mounting Brackets	
Short Rack & Pinion	With Integral Electrical Controls up to first disconnect	Tie Rods, Tie Rod Ends, Couplers and Mounting Brackets	
Power Steering Pump	Pump, Reservoir if integral to Pump	Bracket, Pulley or Reservoir Remote for Pump	
Knuckle/Spindle	Complete with Hubs as required		If Knuckle/Spindle is part of Strut Assembly, it will fall under Strut Category
Steering Column	Column, Levers, Internal Wiring and Switches. Steering Columns are delivered as the Column is detached from the first disconnect to the Steering Gear, Cowl and Dash	Airbag Assembly is not included. Additional Wiring and Trim around the Dash Assembly. Ignition Key and Lock Cylinder may be included, but will need to be re-keyed. Steering Wheel may be included, but varies as optioned	Column Wire Loom is included as optioned for Wipers, Lights, Radio and Speed Control
Hub	See Suspension		

ICAR UPCR Codes SR01, SR11, SR21, SR41, SR51

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SUSPENSION

Assembly	Included Components	Not Included, But May Be Available	Comments
Strut (Front & Rear)	Spring and Mounting Plate with Integral Bushings or Spindle	Steering Spindle and Knuckle	See Steering
Coil Spring	Coil Spring		
Leaf Springs	Leaf Spring and Bushings	Shackle, Frame Mounting Bracket, Spring Bolts, and U-Bolts	
Trailing Axle	Axle Spindle to Spindle, Control Arms, Track Bars	Drums, Discs, Brake Hardware, Attached Cables, Hydraulic Lines and Sway Bars	Sway Bars are included only as optioned
Hub	Hub, as removed from brake and knuckle assembly	Lug Bolts, Knuckle Bearing, and related Brake Components	Some Hubs separate from Brakes - these do not include Brake Parts. Others do not and in this case the Brakes are included.

ICAR UPCR Codes SU01, SU11, SU21, SU31, SU41, SU51

TRIM HARDWARE

Assembly	Included Components	Not Included, But May Be Available	Comments
Exterior Mirror	Housing, attached hardware, Manual Controls and Cable Wiring to first disconnect.	Wiring past first disconnect, Mirror Control if removable, Bolts and Gasket.	Mirrors have many options, and must be ordered accordingly.

ICAR UPCR Codes TH41

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WHEEL

Assembly	Included Components	Not Included, But May Be Available	Comments
Wheel	Wheel	Trim Ring and Cap	Styled Wheels as optioned
Tire	Tire	Wheel, Hubcap, Wheel Cover	

ICAR UPCR Codes WH01S/A

Footnotes:

1. As optioned means the part will be delivered with the options of the source vehicle. If the vehicle on which the part is to be installed has different options, these changes are the responsibility of the party having the work done.
2. On many part types the proper options installed on a particular vehicle may not be easy to determine. Manufacturers routinely install parts which have significant variations without making a record of the change. In the case of mouldings variations with in single production run is not uncommon. Auto Recyclers may be able to closely match what is needed. In order for a Recycler to supply this service a detailed description of what is required must be supplied. The Recycler can only guarantee that the major assemblies will fit and work without this additional information.
3. Automatic selection of many optional parts is not possible with the limited information currently supplied by the automated systems. Work is underway to increase the flexibility of the systems now in use. Until there are improvements, those that are having the work done must be responsible for making additional information available to the Automobile Recycler.
4. Some parts, although they are attached to the part in question are sold as separate items. There are several conditions which cause this to be true. Some parts have too high of a demand as a separate item, which if included would raise the cost of the primary part above that established in the market. Other parts, if sold with the primary part will adversely affect the value of yet another item. Finally, some parts have so many options involved in their manufacture that including them on the primary part reduces that part's utility.

Standard Inventory Management System Descriptions

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WINDSHIELD GLASS COLOR, TINT, and SHADE DESCRIPTIONS

The ARA standard for identification of all glass items, including windshields is based on the manufacture's own numbering system written on the glass. In the corner of any automotive glass are both the manufacture's mark and the "M Code". This code uniquely describes the color, coating, and tinting of the glass. Use both the maker's mark and the "M Code" in the inventory description. To match a glass, compare the code in the inventory to the code on the customer's vehicle. Always refer to the M Codes written on a like glass from the same vehicle.

ANTENNA CODES

WA With Antenna
NA No Antenna

WH With Heat
NH No Heat

Example: WA,NH

in a description field of a windshield would denote that it has an antenna and is not heated

TRANSMISSIONS

Each transmission inventories will have two codes, each two letters long. It will separate transmission by how they are cooled and if they are automatic or manual shift.

MT Manual Transmission
AT Automatic Transmission

EC Engine Transmission Oil Cooler
NC No Engine Cooler

Example: AT,NC

in a description field of a transmission would denote an automatic transmission that does not have an engine oil cooler

AXLE ASSEMBLY

Each axle assembly is given two codes. The first code is the axle ratio of the axle assembly and the last code denotes if the axle is a locking (limited slip) or non-locking type.

Type Code: N Non-Locking Axle Assembly
 L Locking Axle Assembly

Example: 3.08,N in a description of an axle assembly will denote a non-locking axle with a 3.08 ratio

DOORS

Doors are given a field consisting of four codes in twelve spaces. The first code denotes the window lift type. The second code deals with the glass colors. The next denotes the lock type and the final code describes the type of mirror, if included.

Lift Codes: P Power Window Lift
 M Manual Window Lift

Glass Color Codes: Refer to M Codes written on the glass

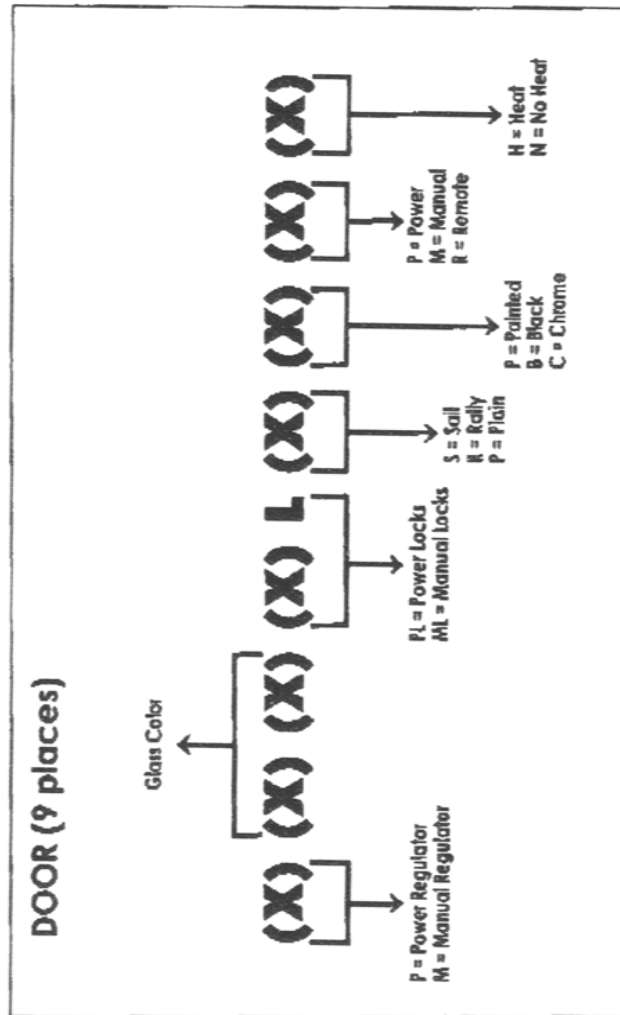
Lock Type Codes: PL Power Locks
 ML Manual Locks

Mirror Type Codes:	Space 9	Space 10	Space 11	Space 12
	S Sail Type	P Painted	P Power	H Heated
	R Rally Type	B Black	M Manual	N No Heat
	P Plain	C Chrome	R Remote	

NOM No Mirror on Door

Example: P,PL,SPMN on a door would denote a power lift window, power locks and a manual painted non-heated sail mirror

DOOR SAMPLE DESCRIPTION LAYOUT



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BUMPERS

Bumpers are given two codes. The first denotes the type of bumper and the last gives the pad and guard combinations. Note that painted types include plastic bumpers

Type Codes: C Chrome
 P Painted

Pad and Guard Codes:

PD	Pad	GD	Guards
PG	Pads and Guards	PL	Plain
EC	With End Caps		

Example: C,PG in a bumper description would denote a chrome bumper with pads and guards

LIFT GATE

Lift gates are defined as a rear gate that opens upward, hinged at the top, as compared to a tail gate which opens downward and has hinges at the bottom or side. These are given three codes, the first of which denotes the glass color. The second code describes whether or not there is a wiper and the final code denotes if the gate has heated glass.

Glass Color Codes: Refer to the M codes written on the glass

Wiper Codes: WW With Glass Wiper
 NW No Wiper

Heat Codes: WH With Heat
 NH No Heat

Example: NW,NH in a lift gate description would denote no wiper and no heat

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