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100 Front End Assembly

Domestic coverage from 1980 to present.

Foreign coverage from 1970 to present.

DEFINITION: Front end assembly is interchanged from cowl forward. Refer to I-CAR recommendations for cut lines.

INCLUDES: Full Frame Design: Fenders; hood; header or front (lamp) panel; bumper cover and/or bar; grille; lamps, radiator support; inner sheet metal and rails for unitized body designs. Include OEM numbers for core support, bumper cover/bar, hood, grille and fenders. Unibody design: Fenders; hood; Firewall; header or front (lamp) panel; bumper cover and/or bar; grille; lamps, radiator support; inner sheet metal and rails for unitized body designs. Include OEM numbers for core support, bumper cover/bar, hood, grille and fenders.

EXCLUDES: Cooling and suspension components unless noted otherwise. Wiring harness variations are not considered. Radiator supports with major differences should be written as a different interchange number and cross noted as outer sheet metal only. Inner frame, rails with major differences should be written as a different interchange number and cross noted as outer sheet metal only.

CONSIDER: Cooling and suspension as these components may affect interchange.

NON-EXACT: When one or more of the following parts differs as described, the front end is to be written as 'non-exact' (alpha extension) interchange.

HOOD - Louvers, scoops, domes or ducts.

HEADER OR FRONT PANEL - Some recyclers will switch a loaded header or negotiate with the shop to do it. All other front end components should be the same in these cases, as further changes would make interchange impractical. Header "swaps" can add significant value to the front end.

HEADLAMPS - Sealed beam, composite, xenon or HID.

RADIATOR SUPPORT - Interchange consists of unitized frame type vehicles, bolted on radiator support that requires minimal modifications, labor, or cost to fit.

BUMPER - Major differences in design and/or cost. Also when matching grille and bumper are sold as a model set.

AIR BAGS - INTERCHANGE AS ONE-WAY FIT ONLY. (w/Air bag replacing w/o Air bag).

SUB-FRAME, RAILS - (Inner Structure) Consists of differences that require minimal modifications, labor or cost to fit.

GROUND EFFECTS - Cost a factor. Should be non-exact in most cases, especially with drilled holes.

SENSORS - When major components differ to accommodate these sensors.

101 Bumper Cover, Front

Coverage from 1994 to present

DEFINITION: Cover that goes over the front bumper.

INCLUDES: Front bumper cover or fascia.

EXCLUDES: Fillers, caps (upper, lower or end), moldings, grilles, lamps, sensors, trim panels, valances and bumper ends.

CONSIDER: It has to cover most of the bumper assembly.

NOTE: US and Canada mkt absorber/reinforcements can differ. See part type 105 when selling as an assembly.

NOTE: Domestic will use 4 digit numbers and foreign will use 5 digit numbers.

102 Header Panel Assembly

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Includes panel between hood, grille and fenders (header); full front panel surrounding headlamps and grille; and headlamp mounting panel (may not be externally visible).

INCLUDES: Header panel, lamps; grilles; bezels and moldings; all other attaching parts.

EXCLUDES: Bumper.

CONSIDER: Hood; fenders, attaching parts.

NON-EXACT: Chrome, painted grilles; grille design, headlamp design and xenon headlamps.

NOTE: A and B interchange, difference is lamp.

DESCRIPTIVE NOTE: Chrome and painted bezels and other trim; minor differences (color, trim).

103 Spoiler/Valance, Front

Domestic coverage for valance from 1965 to present and spoiler '86 to present. Foreign coverage for valance from 1965 to present and spoiler from '74 to present.

DEFINITION:

VALANCE: This panel has been replaced on many newer vehicles by either the header panel or the bumper, but earlier models may use this panel between the bottom of the front fenders.

SPOILER: Only those spoilers that can be removed from their attaching panel need to be covered in this section. Those that are actually part of the bumper, header panel or front valance will already be covered in the interchange for those panels. Any spoiler that does not remain an assembly when it is removed from the vehicle should be listed by its components (center/ends in separate interchanges). Spoilers that are made up of several components (center/ends) but do remain an assembly when removed from the vehicle should have the assembly price listed on the top line of the interchange. If its composition allows for repainting, no consideration should be given to color.

INCLUDES: Panel only.

EXCLUDES: Lamps, brackets or other attachment hardware, bumper cover.

NON-EXACT: With and without fog lamp holes.

NOTE: Does not include aftermarket installed spoilers.

104 Grille

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Grille, attaching brackets and reinforcements.

EXCLUDES: Bumper.

NON-EXACT: Chrome, painted and appearance.

CONSIDER: Ability to change colors and electronic components (i.e. night vision, camera, sensor, etc).

105 Bumper Assembly, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Cover; fascia; bar; reinforcements; brackets; end caps; fillers; sensors; absorbers; lamps (if bumper mounted for 1990 and up model years); guards; impact strips, shock absorbers (hydraulic for 1999 and up model years), bumper mounted spoiler.

EXCLUDES: Shocks and lamps (prior to 1999 model year) wiring.

NON-EXACT: Chrome and painted; aluminum and steel; guards; impact strips (if cost differs by \$200), lamps (1999 and up), valance, sensors, smooth or textured.

GENERAL NOTE: Minor trim differences; colors, smooth or textured.

107 Bumper Reinforcement, Front

Coverage from 1990 to present.

DEFINITION: Front bumper reinforcement or impact bar that is not visible from the exterior of the vehicle.

INCLUDES: Bumper reinforcement or impact bar.

EXCLUDES: Visible bumper bar, absorbers, honeycombs, shocks or brackets.

CONSIDER: If it can be seen from the exterior of the vehicle.

NOTE: Visible bumper bars are covered in Part Type 105 (Front Bumper Assembly).

NOTE: When mounting brackets or shock absorbers differ.

108 Bumper Shock

Domestic coverage from 1973 to present.

Foreign coverage from 1972 to present.

INCLUDES: Hydraulic shock absorber type bumper shocks.

EXCLUDES: Non-recoverable impact absorbers (styrofoam, crushboxes), or absorber material integrated into bumpers.

CONSIDER: Mountings.

NON-EXACT: Superceding replacement with different mountings.

109 Radiator Core Support

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Bolted on radiator supports are interchangeable; welded on supports, unless they are identical, should not be considered interchangeable.

INCLUDES: Upper, lower and side radiator supports.

EXCLUDES: Suspension crossmembers, non-structural baffle plates.

CONSIDER: Bolted, welded; multi-piece; air bag sensor provisions, electronic components.

NON-EXACT: With air bag sensor provision fits without air bag sensor provision.

110 Fender

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Fender, extensions or lamps directly attached to fender; skirt.

EXCLUDES: Antenna, lip moldings.

CONSIDER: Hood; ground effects molding; covers and ducts; flared design; doors, inner panel.

NON-EXACT: Cornering lamps and/or marker lamps; ground effects and holes created by ground effects; power antenna when part number differs; molding price differences of \$200.00 or more, and requiring modification to the fender which would make it impractical to interchange with a fender of a different trim or option level

114 Headlamp Assembly

Domestic coverage from 1980 to present.

Foreign coverage from 1965 to present.

Coverage includes sealed beam lamps 1965-up

INCLUDES: Headlamp assembly, housing; bucket; retaining rings; bezel; ignitor,; transformer; ballast regardless of location, rectifier; integral computer, leveling motor (if integral); door (motorized) if attached to assembly; park, cornering, turn and marker lamps (if integral) located within bezel or that would commonly be sold with headlamp.

EXCLUDES: Motor, headlamp door (PT 630), wiring, bulb holders when non-integral.

NON-EXACT: Color coded integral lamps, chrome; painted bezels and trim.

NOTE: Includes bezels that surround headlamp only.

115 Cornering Lamp - moved to PT 116 - Front Lamp

116 Front Lamp

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: All front lamps except headlamps. Can be mounted in bumper, grille, valance, fender or any location forward of front doors. Location must always be listed on the index line.

Cover under the following sub-heads in the following order:

Parklamp/Turn Signal

Side Marker

Cornering

Fog/Driving

Daytime Running

INCLUDES: Parklamp, turn signal, side marker, cornering, fog and driving lamps. Cornering and side marker to be added for the 2000 model year and up.

EXCLUDES: Head lamps, wiring and bulb holders.

NON-EXACT: Color coded integral lamps, lens color, design; chrome and painted trim.

117 Hood

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Hood, welded hinges; latches, grille and scoop when attached.

EXCLUDES: Specific decals or badging.

CONSIDER: Fender; header panel; all hardware; interior insulation (pad); louvers, scoops, air ducts or domed design.

NON-EXACT: Appearance (louvers, scoops, etc.), composition (aluminum, steel or fiberglass).

NOTE: Interior insulation, difference in grille, i.e. chrome, paint, design.

118 Hood Hinge

Domestic coverage from 1965 to 1998

Foreign coverage from 1965 to 1998

Coverage discontinued. Last updated for 1998 (64.01)

INCLUDES: Bolt-on hinges only.

EXCLUDES: Welded hinges.

CONSIDER: Gas hood strut attachment to hinge.

120 Door Assembly, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Forward doors.

INCLUDES: Door shell, handles, locks; glass, door glass frames; regulator, window; internal parts; welded hinge half.

EXCLUDES: Bolted hinges; mirrors. Wiring harness variations are not considered.

CONSIDER: Repair panel; glass; hinges; strikers; locks; handles; ground effects; mirror provisions; trim pads; door mounted belts; reinforcement bars; moldings, fenders, surrounding parts.

NON-EXACT: Glass design (privacy, solar, theft, etc.) or shape, keyless entry pad; side impact bars (one way); ground effects molding price differences of \$200.00 or more, and requiring modification to the door which would make it impractical to interchange with a door of a different trim or option level; electric, manual windows; major changes to interior trim if trim can be switched; integral door mirror mounting bosses. Self-latching and self-closing option.

DESCRIPTIVE NOTES: Chrome and painted handles, lock bezels and reveal moldings; anti-theft; glass tint; solar.

125 Door Window Regulator, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Regulator or regulator and motor assembly.

EXCLUDES: Motor when detachable.

CONSIDER: Electric and manual.

NON-EXACT: Different drive type (tape, cable, scissors) if interchange is affected.

NOTE: All electric regulators are less motor unless otherwise indicated.

NOTE: NOTE required when motor is included.

128 Side View Mirror

Domestic coverage from 1980 to present.

Foreign coverage from 1968 to present.

INCLUDES: Mirror assembly, mirror head, motor, glass and cover.

EXCLUDES: Controls, inner attachment panel.

CONSIDER: Electric, cable, manual, turn signal lamp, heat, illumination & BSA.

NON-EXACT: Finish differences.

NOTE: Right and left door mirrors in separate interchange numbers. Always reference R or L in index.

NOTE: Use the following sub-heads:

Manual

Cable

Lever

Electric

130 Door Assembly, Rear Side

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Rear side door covers all side doors behind front door including side cargo doors (sliding & hinged).

INCLUDES: Door shell, handles, locks; door glass, glass frames, regulator; window motor internal parts; welded hinge half.

EXCLUDES: Bolted hinges any opening hinged on top or bottom. Wiring harness variations are not considered.

CONSIDER: Repair panel; glass; hinges; strikers; locks; handles; ground effects; trim pads; door mounted belts; reinforcement bars; moldings.

NON-EXACT: Glass design (privacy, solar, theft, etc.) should be non-exact from 2001 on (new numbers), shape; side impact bars (one way); ground effects; molding price differences of \$200.00 or more, and requiring modification to the door which would make it impractical to interchange with a door of a different trim or option level; electric, manual windows; major changes to interior trim if trim can be switched. Self-latching or self-closing doors are one way fit. Doors with side impact bag/beam are one-way-non-exact with bag/beam door replacing non-beam door due to safety and liability factors. If motor is part of door assembly then non-exact.

135 Door Window Regulator, Rear

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Regulator or regulator and motor assembly.

EXCLUDES: Motor when detachable. Wiring harness variations are not considered.

CONSIDER: Electric and manual.

NON-EXACT: Different drive type (tape, cable, scissors) if interchange is affected.

NOTE: All electric regulators are less motor unless otherwise indicated.

140 Back Door Assembly

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present

DEFINITION: Back door covers all doors behind the rear side doors. Back doors are hinged on the side and swing out. Do not confuse with the lid or gate.

INCLUDES: Door shell, handles, locks; glass, glass frames; internal parts; welded hinge half.

EXCLUDES: Bolted hinges and any opening hinged on top or bottom. Wiring harness variations are not considered.

CONSIDER: Repair panel; glass; hinges; strikers; locks; handles; ground effects; trim pads; door mounted belts; reinforcement bars; moldings.

NON-EXACT: Glass design (privacy, solar, theft, etc.) should be non-exact from 2001 on (new numbers), shape ; side impact bars (one way); ground effects; molding price differences of \$200.00 or more, and requiring modification to the door which would make it impractical to interchange with a door of a different trim or option level; electric, manual windows; major changes to interior trim if trim can be switched; door mounted spare. Self-latching doors and self-closing doors are one way fit. Doors with side impact bag/beam are one-way non-exact with bag/beam door replacing non-beam door due to safety and liability factors. If motor is part of door assembly then non-exact.

141 Fog/Driving Lamps - moved to PT 116 - Front Lamp

150 Rear Clip

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Although the actual rear clip cut will depend on the severity and location of the damage, the most common cut is the 'long' clip that includes the roof. The 'long' rear clip is usually sectioned at mid-rocker and center of A pillars (windshield posts). The floor is included, as is the roof. Body style does not usually change the location of the 'long' cut. Cpe, Sdn, HB and SW are all most commonly cut at center A pillars and mid-rocker. If the roof is not included, the rear clip is considered a 'short' cut and is sectioned through the quarter sail panels at roof and at least mid-point on the rocker or halfway to cowl. This also applies to vans and utility vehicles (Pickups are covered as PT 155). Refer to I-CAR recommendations for cut lines. Prior to 1990, Rear Clips are generic with regards to roof options.

INCLUDES: Quarter panels; quarter extensions; roof; back glass; rear finish panel or body panel; bumper; lamps; lid or lift gate; floor pan and rail structures (uni-body). Include OEM numbers for roof, quarter panels, deck/tailgate and bumper cover/rebar.

EXCLUDES: Interior Trim panels, seat belts/bags, wiring, and frame. Wiring harness variations are not considered.

NON-EXACT: When one or more of the following parts differ as described, the rear clip is to be written as non-exact interchange.

ROOF AIR BAGS - Interchange non-exact B fits A without roof bags.

TAIL LAMP - Design, style or location changes. Tail lamp location changes require loaded rear panel switch providing other major rear clip components are not affected. Lens cover difference can be noted.

BUMPER - Design or style changes in cover, fascia differences.

FLOOR PAN - Changes due to axle and/or suspension differences and in some cases fuel tank location. IF FLOOR PAN MODIFICATIONS ARE IMPRACTICAL AND THE REAR CLIP CANNOT BE INTERCHANGED WITH THE FLOOR PAN, THE REAR CLIP IS NOT CONSIDERED INTERCHANGEABLE. THIS APPLIES PARTICULARLY TO INTERCHANGE BETWEEN FWD AND AWD/4WD MODELS.

LID - When design &/or optional equipment differs See spoiler, back glass HMSL and General Notes.

REAR BODY PANEL - Welded panel.

REAR BULKHEAD - Fixed or split/folding rear seatbacks or pass through provision.

BACK GLASS - Dimensions; shape and various electronic options.

GROUND EFFECTS - Consider labor and parts costs for conversion (and holes created by ground effects). Write as non-exact when necessary.

FUEL FILLER DOORS - Location and number.

SUNROOF - When mechanisms cause difference in roof structure or quarter panels.

SPOILER - When high mounted stop lamp is attached to or built into spoiler or if spoiler has high dollar value, non-exact separation is warranted. Spoiler included with ground effects package are covered but these should be included as part of non-exact notes. Other spoilers may require a general note only. Use lid interchange as a guide.

BACK DOOR AND REAR DOOR (INCLUDES SIDE CARGO DOOR) - Hinged or sliding; doors or gate. If back door comes with and without glass and van does not come with side glass, a note will suffice. If van is available with and without side glass, the back door will usually have the same options. In these cases the back door would automatically be covered as part of non-exact interchange due to quarter glass options (see Quarter Panels).

QUARTER PANELS - With and without side glass (Vans).

FRONT SHOULDER BELTS - When difference is pyrotechnic and non-pyrotechnic belts.

REAR SHOULDER BELTS - Interchange both ways as shown in examples:
A. w/Rear Shoulder Belts. NOTE: "B fits but, consider labor and part costs to install rear shoulder belts."
B. w/o Rear Shoulder Belts. NOTE: "A fits and has rear shoulder belts."

HIGH MOUNTED STOP LAMP - See spoiler and/or lid. See General Notes.

152 Roof Assembly

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Interchange as assembly unless roof rail or pillar design forces repair panel only interchange. Coverage includes convertible and soft tops and removable hard tops cut at posts.

INCLUDES: Roof panel shell; side rails; extensions; upper sections of posts and pillars; sunroofs; sunroof motor, convertible top and frame hardware.

EXCLUDES: Glass T-top panels; vinyl covering; drip or scalp moldings; shoulder belts. Wiring harness variations are not considered.

CONSIDER: Front, rear and side glass; windshield; doorframes (hinged, sliding, liftgate); quarter sail area; convertible or removable or removable top hardware and roof mounted lamps.

NON-EXACT: Sunroof or moon roof; T-tops, sliding or removable panels; pillar or post differences, special electronics (communication center), GPS, roof mounted air bag option interchange one way only. When roof rack application has new OEM #.

DESCRIPTIVE NOTES: Cargo lamps; running lamps; luggage rack, antenna, roof mounted lamps

NOTE: After market fake/mock convertible tops are not considered.

154 Pickup Truck Cab (Shell)

Domestic & Foreign coverage from 1980 to present.

INCLUDES: Assm or roof, cowl/firewall, floor, back, side/corner panel, side frame assem (when used), windshield, quarter & back glass.

EXCLUDES: Doors, seats, dash/console/instruments, steering column, air bags, heating or AC components & wiring harness, glass.

CONSIDER: Seat design (mounting), steering column differences (shifting location), doors & air bags.

NON-EXACT: Floor differences (4x4/4x2, AT/MT, AC), firewall differences (6/8 cyl), sun roof (if OEM part numbers differ) and back panel.

DESCRPTIVE NOTES: AC, cowl & floor differences for 4x4/4x2, AT/MT cover panels available; sunroof design & high mtd stop lamp usage.

155 Pickup Box

Domestic coverage from 1967 to present.

Foreign coverage from 1965 to present.

INCLUDES: Box shell, tailgate; side lamps, tail lamps; wheel house panels.

EXCLUDES: Cap, topper, tonneau or mounting parts.

CONSIDER: Bed sides; tail lamps, single and double wall constructions; embossed gates.

NON-EXACT: Single or dual fuel tanks; tail gates; major differences in tail lamp appearances, single and double wall constructions; molding price differences of \$200.00 or more, and requiring modification to the box which would make it impractical to interchange with a box of a different trim or option level

DESCRIPTIVE NOTES: Minor tail lamp lens differences; chrome and painted bezels; embossed gates.

159 Quarter Repair Panel

Domestic coverage from 1965 to 1997

Foreign coverage from 1965 to 1997

Quarter Repair Panel is incorporated into Quarter Panel Assembly. Coverage discontinued. Last updated for 1997 (63.04)

INCLUDES: Quarter repair panel only.

EXCLUDES: Lamps, lids, glass, doors, floor, ground effects; inner structure or other attaching parts.

CONSIDER: Door striker position, fuel filler door shape.

NON-EXACT: Major differences in tail lamp appearances.

160 Quarter Panel Assembly

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Inner and outer quarter panel structure including wheelhouse, partial floor pan, partial C-pillar.

PASSENGER CARS, VANS, UTILITY VEHICLES:

INCLUDES: Partial rear body panel (PT194); extension; wheel housing; lock pillar; floor pan (section); roof panel cut; rear shoulder belts; fuel door, quarter panel shell, side lamps.

EXCLUDES: Tail lamps, complete floor, fuel tank, filler pipe.

CONSIDER: Roof; lid or gate; frame or frame rails; fuel tank; major suspension differences; fuel filler; front (if on post) and rear shoulder belts; lamps; fillers; remote release lid & fuel door; moldings; interior trim; fuel tank & neck; rear facing lamps; upper panel.

NON-EXACT: Extension differences; swing-away spare; antenna, shoulder belts, spoiler; molding price differences of \$200.00 or more, and requiring modification to the quarter panel which would make it impractical to interchange with a quarter panel of a different trim or option level.

TRUCKS (PICKUP BEDSIDE):

INCLUDES: Inner & outer sheet metal; extensions; side lamps.

EXCLUDES: Tail lamps, bed floor, fuel pipe.

CONSIDER: Gate; fuel tanks; tail lamps; bed; storage compartment; hooks tie-down; single or double wall construction, moldings, spare mounting.

NON-EXACT: Storage compartment; fuel door number & location; molding price differences of \$200.00 or more, and requiring modification to the quarter panel which would make it impractical to interchange with a quarter panel of a different trim or option level; spare mounting if reinforced.

163 Quarter Window Regulator, Rear

Domestic coverage from 1967 to present.

Foreign coverage from 1965 to present.

INCLUDES: Quarter glass regulator.

EXCLUDES: Glass, motor if separate.

CONSIDER: Electric and manual.

CROSS REFERENCE: From PT 617.

164 Cab Clip

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Pickup cab less cowl, floor hole arrangement and doors. Interchange based on top and back of cab.

INCLUDES: Roof, rear cab panel; windshield posts.

EXCLUDES: Cowl, doors; glass.

CONSIDER: Belt provisions (in floor, side panel, shoulder); windshield (to check post).

NON-EXACT: Belt provisions and location, sunroof.

NOTE: Seat options on some model may cause back panel differences.

DESCRIPTIVE NOTES: Lamps (cargo, high-mount, running).

166 Tail Lamp

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Tail lamp assembly, housing; lenses, bezel; tail lamps that are part of reflector (center).

EXCLUDES: Gaskets, wiring, bulb holders, backup lights.

NON-EXACT: Color coded integral lamps, chrome and painted trim; lens differences (color, design) if lens is replaceable.

168 Rear Side Marker Lamps

Domestic coverage from 1972 to 1991.

Foreign coverage from 1970 to 1995.

DEFINITION: Side mounted rear. Visible from side only (i.e., not visible from center front of vehicle).

INCLUDES: Housing; bezel.

EXCLUDES: Wiring.

NON-EXACT: Lens differences; chrome and painted trim.

169 Spoiler, Rear

Domestic coverage from 1967 to present.

Foreign coverage from 1970 to present.

DEFINITION: Covers removable spoilers mounted to rear body panels.

INCLUDES: Spoiler, high mounted stop lamp.

EXCLUDES: Wiring, gaskets, trim.

NON-EXACT: Design, w/ & w/o high mounted lamp.

170 Decklid/Tailgate

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Lid lifts up; gates pull down. Functions should continue to be a consideration even though lid and gate are combined. Hinged on side is covered under PT 140, Back Door.

EXCLUDES: Hinges (bolt on). Wiring harness variations are not considered.

LID

INCLUDES: Glass; camera; handles; latches; locks internal parts; lamps; reflectors; wipers; wiper motor; welded hinges (half); luggage rack; high mounted lamp (integral), spoiler, decklid shell.

CONSIDER: Quarter panels; roof; rear body panels; hinges; power latch; anti-theft; tail lamps; rear finish panel (cost); trim panel fit.

Moldings; filler; lock cylinder; interior trim panels; body mounted latches/locks; wiring harness; luggage racks; spare tire carrier, remote release and motorized pull down.

NON-EXACT: Heated glass, wiper; spoiler; special glass (privacy, solar, theft, etc.); integral luggage rack; camera; high mounted lamp (integral). Sheet metal differences on deck lids with internal safety release are non-exact one way fit. Tail lamps and finish tail panel.

GATE

INCLUDES: Glass; camera; glass motor & regulator; wiper motor and spoiler. Handles; latches; welded welded (half); finish panel, gate shell.

CONSIDER: Quarter panels; bedsides; box; embossed letters.

Moldings; filler; lock cylinder; interior trim panels; body mounted latches/locks; wiring harness; luggage racks; spare tire carrier, remote release and motorized pull down.

NON-EXACT: Special glass (privacy, solar, theft, etc.), heated glass; electric/manual glass; camera; wiper; spoiler, hinges; spare tire carrier; embossed letters. Tail lamps and finish tail panel.

176 High Mounted Stop Lamp

Domestic coverage from 1985 to 1997

Foreign coverage from 1985 to 1997

Coverage discontinued. Last updated for 1997 (63.04)

INCLUDES: OEM high mounted stop lamp.

EXCLUDES: Aftermarket mounted lamps, tail lamps.

NON-EXACT: Location where switching is possible (e.g. upper or lower inside rear window).

NOTE: Mandated from 1986 model year.

185 Back Glass Window Regulator

Domestic coverage from 1965 to present.

Foreign coverage from 1984 to present.

INCLUDES: Regulator.

EXCLUDES: Motor if separate.

NON-EXACT: Supersession of old by new (e.g. |B| fits |A|) as a service replacement.)

CONSIDER: Electric and manual.

188 Rear Window Washer Motor

Domestic coverage from 1985 to 1989.

Foreign coverage from 1976 to 1988.

Coverage discontinued.

INCLUDES: Pump and reservoir if integral.

EXCLUDES: Separate reservoir.

NON-EXACT: Supersession of old by new (e.g. |B| fits |A|).

190 Bumper Assembly, Rear

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Cover; fascia; bar; reinforcements; brackets; end caps; fillers; absorbers (honeycomb type); lamps (if bumper mounted); guards; impact strips, 1999 and up include bumper shocks.

EXCLUDES: Frame mounted bumper brackets, cover to body attachment brackets, bumper shocks. (prior to 1999 model year coverage).

NON-EXACT: Chrome and painted; aluminum and steel; guards; impact strips; fog lamps, park aid/radar sensor (one-way), spoiler.

DESCRIPTIVE NOTES: Minor trim differences; colors.

191 Bumper Reinforcement, Rear

Coverage from 1990 to present.

DEFINITION: Rear bumper reinforcement or impact bar that is not visible from the exterior of the vehicle.

INCLUDES: Bumper reinforcement or impact bar.

EXCLUDES: Visible bumper bar, absorbers, honeycombs, shocks or brackets.

CONSIDER: If it can be seen from the exterior of the vehicle.

NOTE: Visible bumper bars are covered in Part Type 190 (Rear Bumper Assembly).

194 Tail Panel

Domestic coverage from 1965 to 1997

Foreign coverage from 1965 to 1997

DEFINITION: Metal panel welded between rear quarter panels ahead of rear bumper.

INCLUDES: Metal panel that attaches to quarters below lid or gate.

EXCLUDES: Tail finish panel.

NON-EXACT: Supersession of old by new (e.g. |B| fits |A| as a service replacement).

195 Tail Finish Panel

Domestic coverage from 1984 to present.

Foreign coverage from 1984 to present.

INCLUDES: Metal or plastic trim or reflectors affixed to rear body panel (PT194), lid or gate generally spanning the width between quarters or tail lamps. Back-up lamps, license lamps that are part of pane assembly; bezels; reflectors; wire harness (at first disconnect); mounting brackets.

EXCLUDES: Tail lamps regardless of what they are part of or where they are mounted, individual back-up lamps.

NON-EXACT: Chrome or painted trim.

197 Fuel Tank

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Tank, filler neck (when integral)

EXCLUDES: Sending unit; pump (when applicable); straps.

NON-EXACT: Composition, fuel (gas/diesel) and sensors, non-integral filler neck.

CONSIDER: Straps.

198 Center Pillar

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Covers center pillar and pillars comprising side doorframe.

INCLUDES: Inner, outer sheet metal.

EXCLUDES: Inner trim panels, belts, air bags.

CONSIDER: Hinges; post mounted belts/bags; locks; strikers, rocker panels, moulding, air bags and belt tensioners

202 Front Seat

Coverage from latest generation. Earlier coverage to be added in a future update.

DEFINITION: Front seat.

INCLUDES: Assembly, seat tracks, seat cushion frame, seat back frame, seat air bag, cushions, covers (seat cushion & back), motors (when not included with track).

EXCLUDES: Fans, switches, sensors and modules.

NON-EXACT: Air bag supersession, cloth, leather or vinyl seats.
There will be no non-exacts for embroidery, stitching, emblems or fabric design (at this time).

CONSIDER: Seat type, air bag, cloth or leather fabric, electric or manual, heated or cooled, occupancy sensor, memory, lumbar support.

NOTE: When interchange includes air bag, this note must be added:

NOTE: Includes air bag.

NOTE: When interchange includes integral seat belts, this note must be added: NOTE: Includes seat belts.

NOTE: When interchange includes seat modules, this note must be added:

NOTE: Seats may need to be recalibrated or reprogrammed, refer to O.E. for specifications.

NOTE: When color or trim differences exist, it must be noted. An example note may look like this: Note: Available in several colors or trim options.

238 Steering Column

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Upper and lower shafts (assembly); shift tube; jacket; control levers; position sensors, electric assist, combination switches; wiring., power assist motor.

EXCLUDES: Steering wheel; air bag and external ignition switch.

CONSIDER: Cornering lamps; delayed wipers; combination switches; column or dash mounted wiper switch; air bag; steering wheel radio and GPS switches; security immobilizer systems, w/ & w/o position sensors.

NON-EXACT: M.T. and A.T. for column and floor shift, with & without tilt wheel, pulse & cruise switches, with & without electric assist.

NOTE: Columns are sold without air bags; however, columns using bags need to be listed separately due to wiring and other bag related differences. Columns using air bags that are sold to replace theft damaged units will occasionally include steering wheel but not the air bag. For collision replacement, columns are usually sold complete with steering wheel and air bag.

NOTE: Lock cylinder is different due to shift interlock.

251 Dash Panel

Domestic coverage from 1970 to present.

Foreign coverage from 1965 to present.

INCLUDES: Upper panel and/or support frame and cover.

EXCLUDES: Lower pads; knee bolsters, welded metal substructure, switches; lights and sensors; air bag; trim. Wiring harness variations are not considered.

NON-EXACT: Material (i.e. plastic and leather).

NOTE: Reference air bag (when optional on vehicle).

253 Air bag

Domestic coverage from 1989 to present.

Foreign coverage from 1988 to present.

IMPORTANT INFORMATION REGARDING ANY AND ALL PARTS RELATED TO THE FUNCTION OF THE AIR BAG RESTRAINT.

Original Equipment Manufacturers warn that by installing a used part from another vehicle, or even a new part other than that specified by the manufacturer, the Supplemental Inflatable Restraint (SIR) System may not perform as designed. Even though parts look alike, they may function differently. Each system is tuned to that particular vehicle. Therefore, the vehicle manufacturers recommend never to use SIR components from another vehicle and never attempt to repair any SIR component. Service is intended to be by replacement with new parts only.

INCLUDES: Bag assembly, including all locations and module when applicable.

EXCLUDES: Steering wheel; interior body panels when not considered integral with bag; sensors; charge capacitor.

NON-EXACT: Supersession only (e.g. |B| fits |A|; difference is service replacement).

CROSSREFERENCE: See PT 251 when part of panel

257 Speedometer Head/Cluster

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Speedometer cluster (1999 and up clusters required) and speedometer head when applicable. Coverage should predominately be speedometer cluster. Speedometer head is the exception and should be used when it is the only part available (or on older coverage).

INCLUDES: Speedometer head, lens, housing, circuit board, integral gear indicator and all integral gauges or tachometer when applicable. Canadian coverage KPH should be written when available. Add MPH when Canadian is not available.

EXCLUDES: Non-integral gauges or tachometer.

NON-EXACT: Gauges or tachometer, when practical to do so.

270 Windshield Glass

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Interchange includes moldings and trim; riveted parts; adhesive attached parts and wires to first connector. Solar glass used on R134a air conditioning system due to decrease in cooling capacity.

INCLUDES: Windshield, mirror base, mounting molding, glass in front of door (APV's).

EXCLUDES: Rear view mirror, garnish molding.

NON-EXACT: Heated; antenna; mirror; solar; chrome and painted mounting moldings and sensors.

275 Back Glass

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Interchange includes moldings and trim; riveted parts; adhesive attached parts and wires to

first connector. Privacy includes deep tint and one-way glass. Solar glass used on R134a air conditioning system due to decrease in cooling capacity.

INCLUDES: Back glass, mounting molding.

EXCLUDES: High mounted stop lamp, garnish molding.

NON-EXACT: Heated; wipers; privacy; solar; antenna; chrome and painted moldings, sliding and fixed (pickup), wiring differences and security. Differences for high mounted stop lamps.

277 Door Glass, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Glass, moldings and trim; riveted parts; adhesive attached parts.

EXCLUDES: Regulator parts, gaskets, and scrapers.

NON-EXACT: Solar and security

NOTE: Solar glass used on R134a air conditioning system due to decrease in cooling capacity.

278 Door Glass, Rear

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Glass, moldings and trim; riveted parts; adhesive attached parts.

EXCLUDES: Regulators parts, gaskets, scrapers.

NON-EXACT: Solar, privacy and security.

NOTE: Solar glass used on R134a air conditioning system due to decrease in cooling capacity.

279 Door Vent Glass, Rear

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Movable or smaller stationary piece.

INCLUDES: Glass, moldings and trim; riveted parts; adhesive attached parts.

EXCLUDES: Regulator parts, gaskets, and scrapers.

NON-EXACT: Solar, privacy, frame and security.

NOTE: Solar glass used on R134a air conditioning system due to decrease in cooling capacity.

280 Door Vent Glass, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Movable or smaller stationary piece.

INCLUDES: Glass, moldings and trim; riveted parts; adhesive attached parts.

EXCLUDES: Regulator parts, gaskets, and scrapers.

NON-EXACT: Solar, frame.

NOTE: Solar glass used on R134a air conditioning system due to decrease in cooling capacity.

284 Quarter Glass

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Glass, moldings and trim; riveted parts; adhesive attached parts.

EXCLUDES: Regulator parts, gaskets, and scrapers.

NON-EXACT: Solar, privacy.

NOTE: Solar glass used on R134a air conditioning system due to decrease in cooling capacity.

288 Roof Glass

Domestic coverage from 1968 to present.

Foreign coverage from 1976 to present.

DEFINITION: Includes all roof glass including T-top glass panels.

INCLUDES: Glass, hardware.

EXCLUDES: Vehicle mounted brackets, sun shields.

NON-EXACT: Locking types.

CONSIDER: Roof panel and hardware, glass color differences.

CROSS REFERENCE: See PT152 for metal or fiberglass panels.

300 Engine Assembly

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Complete engine as removed from vehicle. Interchange as complete under each alpha extension. Interchange between alpha extensions as long block. (Base number is the long block with the alpha extensions being the variations.)

INCLUDES: Cylinder short block, head(s), intake manifolds, carburetor or injectors, timing cover, oil pan and pump, distributor or ignition parts, supercharger & fuel rails.

EXCLUDES: Flywheel, accessories (alternator, starter, compressor and pumps), bell housing, clutch or torque converter, engine control modules, wiring harness and exhaust manifold except when turbo charged.

NON-EXACT: Intake manifold, carburetor or fuel injection, major ignition parts. Non-exacts must have some type of fit relationship to be included in that base number.

CONSIDER: Engine mounts, bell housing bolt pattern, flywheel and damper balance, accessory location and mounting, electronic sensors and function.

302 Cylinder Block

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Engine block or case. May include pistons but not rods or crankshaft.

EXCLUDES: Heads

CONSIDER: Engine mounts; bolt patterns; heads; pistons; crankshaft; gaskets; pan.

303 Crankshaft

Domestic coverage from 1965 to 1997

Foreign coverage from 1965 to 1997

INCLUDES: Crankshaft.

EXCLUDES: Harmonic balancer, main caps, and flywheel.

NON-EXACT: Internal, external balancing (flywheel, balancer, converter changed); timing gear swaps;
number of flywheel bolts.

CONSIDER: Balancing; flywheel; balancer, timing gear.

305 Camshaft

Domestic coverage from 1965 to 1997

Foreign coverage from 1965 to 1997

INCLUDES: Camshaft.

EXCLUDES: Timing gear(s), cam bearings/caps.

CONSIDER: Variable timing, composition (e.g. cast iron or steel).

NON-EXACT: Exact or service replacement only.

306 Cylinder Head

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Head, valves, springs, retainers; camshaft (OHC); cam bearings.

EXCLUDES: Valve cover; timing gear; pulley.

CONSIDER: Block; head; intake manifold; exhaust manifold; camshaft; valve cover gasket; compression
ratio; pistons; valves; accessory mounting brackets; emission controls.

NON-EXACT: Head bolts; composition (aluminum/steel), emission provisions; camshaft, valve size and/or
composition.

NOTES: Round, square or oval exhaust ports, single or double drilled stud holes.

308 Timing Cover

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Cover enclosing timing chain or belt. Include front only where chain is oiled from the
engine. May include front and rear where dry timing belt is used.

INCLUDES: Removable belt or chain covers.

EXCLUDES: Covers cast as part of block or head; timing chain housing.

CONSIDER: Block; head.

NON-EXACT: Timing indicator; fuel pump provision; crankshaft sensor hole; dipstick hole.

309 Harmonic Balancer

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Harmonic balancer; pulley and hub where applicable.

EXCLUDES: Separate belt pulley, hub.

CONSIDER: Number of pulley bolts, keyway, external or internal balance.

NON-EXACT: Pulley & hardware (include); number of bolts.

311 Oil Pan

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Oil pan, plug, and sump where separate.

EXCLUDES: Pickup tube, oil pump.

CONSIDER: Pan gasket; pump, dipstick & tube.

NON-EXACT: With & without oil sensor (one way fit).

317 Intercooler

Domestic coverage from 1984 to present.

Foreign coverage from 1978 to present.

DEFINITION: Liquid, air or refrigerant cooled radiator that cools intake air charge in conjunction with forced induction systems.

INCLUDES: Precooler, intercooler and aftercooler for all applications that has been super or turbo charged.

EXCLUDES: Supercharger or turbocharger, tubing and pipes, brackets and other intake ducting.

NON-EXACT: Service replacement replaces OEM - ONE WAY ONLY.

318 Engine Oil Cooler

Domestic coverage from 1969 to 1998

Foreign coverage from 1965 to 1998

DEFINITION: Liquid, or air cooled radiator that cools engine oil.

INCLUDES: Air cooled and water cooled styles. Assembly includes lines, adapters and housing.

EXCLUDES: Any style mounted within the radiator.

NON-EXACT: Service replacement replaces OEM - ONE WAY ONLY

319 Air Cleaner

Domestic coverage from 1990 to present

Foreign coverage from 1975 to present

DEFINITION: Engine intake air filter, primarily remote mounted fuel injection air boxes.

INCLUDES: Air box.

EXCLUDES: Hoses; tubes; filter; air flow meter and any external parts.

NON-EXACT: Service replacement replaces OEM - ONE WAY ONLY

320 Carburetor

Domestic coverage from 1969 to present.

Foreign coverage from 1965 to present.

DEFINITION: Mechanical fuel metering device. May have electronic mixture feedback.

INCLUDES: Carburetor and internal linkage.

EXCLUDES: Air cleaner; fuel lines; external linkages; gaskets and spacers.

CONSIDER: Intake manifold; engine displacement; Calif./Fed/High Altitude choke configuration.

NON-EXACT: Service replacement replaces OEM - ONE WAY ONLY

321 Turbocharger/Supercharger

Domestic coverage from 1978 to present.

Foreign coverage from 1976 to present.

DEFINITION: Exhaust or mechanically driven device that pressurizes the incoming air charge.

INCLUDES: Turbocharger/supercharger. Waste gate (pop-off valve).

EXCLUDES: Manifolds, tubing, oil lines, intercooler, and belts.

CONSIDER: Oil & water lines, vacuum motor.

322 Fuel Injection Parts

Domestic coverage from 1975 to present.

Foreign coverage from 1965 to present.

Coverage may vary by component.

DEFINITION: This section contains the misc. diesel and gasoline fuel injection components.

INCLUDES: (Index by sub-head)

Altitude Switch

Warm-up Valve

Air Regulator Assembly

Aux. Air Regulator

Fuel Cut-off (diesel)

Central Port Injector Assembly

Cold Start Valve

Cold Start Injector

Throttle Position Switch

Flex Fuel Control Valve

Fuel Pressure Regulator

Fuel Distributor Assembly

Pressure Sensor

Fuel Injector (Multi-port/Central-port only)

Injection Pump Controller

Lambda Sond Probe (Oxygen Sensor)

EXCLUDES: Air Flow Meter see PT336

Air Intake Distributor see PT329

Mass Air Flow Sensor see PT336

Throttle Valve Assembly see PT337

Throttle Body (Injector) Assembly see PT337

CONSIDER: Function or combination of functions when determining name.

NON-EXACT: Superection of components, (e.g. |B| fits |A|) as service replacement).

323 Fuel Pump

Pump only coverage from 1965.

Pump assembly coverage from 1993.

INCLUDES: Sub-head to be used: Pump Only-Mechanical or electric fuel pumps, injection pumps.

Sub-head to be used: Pump Assembly-Electric fuel pump with sending unit.

EXCLUDES: Fuel tank.

CONSIDER: Brackets, multiple pumps and multiple locations.

NON-EXACT: Same pump in different assemblies will require a non-exact (A and B interchange as pump only).

324 Coolant Pump

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Pumps that move coolant. This includes engine, heater, inverter and heat storage tank.

EXCLUDES: Oil cooler pump.

CONSIDER: Direction of rotation.

NON-EXACT: Different size impeller shafts, composition.

325 Fan Blade

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Belt driven fans only '98 up (coverage exists for all fan blades thru '97).

INCLUDES: Fan blade.

EXCLUDE: Shroud; bracket, clutch, fans that are part of Radiator Fan Motor PT674.

NON-EXACT: Number of blades.

DESCRIPTIVE NOTE: Number of blades and diameter when available, composition.

326 Fan Clutch

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Fan mounted clutch.

EXCLUDE: Shroud; bracket, fan.

NON-EXACT: Temperature range.

NOTE: Some clutches are integral with the water pump.

327 Exhaust Manifold

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Exhaust manifold attached to cylinder head.

INCLUDES: Exhaust manifold, catalytic canister when part of manifold.

EXCLUDES: Head pipe, separate catalytic converter, exhaust system.

CONSIDER: Manifold bolt arrangement, EGR, other emissions systems.

NON-EXACT: Where applicable, EGR, emission systems or anything that might be plugged. One way interchange when these holes can be plugged (coverage begins in '03).

NOTE: Separate interchange numbers for two-piece designs.

329 Intake Manifold

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Intake manifold, individual runners when part of manifold.

EXCLUDES: Fuel rails & injectors, throttle valve/body, specific thermostat and housing, hoses and fittings.

CONSIDER: Fuel system; emission system; heads.

NON-EXACT: Where applicable, EGR, emission systems or anything that might be plugged. One way

interchange when these holes can be plugged (coverage begins in '03).

NOTE: Separate interchange numbers for multi-piece design.

336 Air Flow Meter

Domestic coverage from 1983 to present.

Foreign coverage from 1968 to present.

DEFINITION: Interchange applies to all OEM parts that measure the quantity or rate of flow of air being inducted into the engine.

INCLUDES: Air flow meter. Any device that meters the flow of air to the engine.

EXCLUDES: Idle air valves or regulators or EGR/exhaust valves, connecting hoses.

CONSIDER: Fuel system; emission system.

NOTE: Interchange multi-piece designs as a single piece.

337 Throttle Body/Valve Assembly

Domestic coverage from 1984 to present.

Foreign coverage from 1984 to present.

DEFINITION: Interchange contains complete throttle body and throttle valve assemblies.

INCLUDES: Throttling device in the air intake tract; air and fuel (with injectors) and just air.

EXCLUDES: Electronic carburetors, idle valves or regulators.

CONSIDER: Double throttle valves or electronically controlled throttle valves used for traction / skid control.

NOTE: Central-Port and Multi-Port injectors are covered under Misc. Fuel Injection Parts (PT322).

341 Air Injection Pump

Domestic coverage from 1966 to present.

Foreign coverage from 1967 to present.

INCLUDES: Air pump, mechanical or electric.

EXCLUDES: Pulley, hoses, wiring, brackets and mounts.

NON-EXACT: Service replacement replaces OEM ONE-WAY ONLY.

349 Camshaft Housing

Domestic coverage from 1979 to 1997

Foreign coverage from 1965 to 1997

Coverage discontinued. Last updated for 1997 (63.04).

INCLUDES: Housing and bearings that support the camshaft.

EXCLUDES: Camshaft.

NON-EXACT: Service replacement replaces OEM ONE-WAY ONLY.

NOTE: Only where removable from cylinder head.

370 Fuel Injection Pump Coverage moved to Part Type 323 in 69.01.

372 Vacuum Pump

Domestic coverage from 1978 to present.

Foreign coverage 1965 to present.

INCLUDES: Vacuum pump (belt driven). Internally and externally mounted types.

EXCLUDES: Pulley.

CONSIDER: Reservoir.

NON-EXACT: Service replacement replaces as OEM ONE-WAY ONLY.

373 Fuel Injection Parts (Diesel) - moved to PT 322 - Fuel Injection Parts

400 Transmission/Transaxle Assembly

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

TRANSMISSION (RWD)

Interchange does not generally consider gear ratios. Applies to 1995-up models.

MANUAL:

INCLUDES: Transmission, shift levers; integral clutch housing; flange.

EXCLUDES: Clutch; external shift linkage; yokes, bell housing, separator plate.

CONSIDER: Engine; case; bell housing; extension housing; clutch housing; input and output shafts; mounts and crossmembers; clutch disc; yoke or flange; speedometer drive/adaptor and sensor.

NON-EXACT: Extension housing; speedometer drive/adaptor and sensor.

AUTOMATIC:

INCLUDES: Transmission , converter; converter housing; shift levers; flange; module when mounted directly.

EXCLUDES: External shift linkage; yokes, separator plate, external wiring harness.

CONSIDER: Engine; case; extension housing; converter housing; converter; input and output shafts; electronics; wiring; shift levers; floor or column shift; valve body; speedometer drive; adaptor and sensors; pan; yoke; neutral switch; governor.

NON-EXACT: Valve body wiring harness and solenoids; extension case; shift levers; speedometer drive/adaptor and/or sensors; converter housing transmission mounts; yoke; neutral switch, converter.

TRANSAXLE

Interchange does not generally consider gear ratios or speedometer ratios.

Applies to 1965-up models.

MANUAL:

INCLUDES: Transmission , shift levers; integral clutch housing; flanges, final drive.

EXCLUDES: Clutch; external shift linkage; yokes; axle shafts, bell housing.

CONSIDER: Engine; case; extension housing; clutch housing; input and output shafts; axle shafts; drive/adaptor and sensor; ring gear, neutral safety switches.

NON-EXACT: Removable bell housing; transmission mounts; speedometer drive adaptor and sensor and gear ratio.

AUTOMATIC:

INCLUDES: Transmission , converter; converter housing; flange; shift levers; extension housing, final

drive and module when mounted directly.

EXCLUDES: External shift linkage; yoke; axle shafts.

CONSIDER: Engine; case; converter housing; converter; input and output shafts; electronics; wiring; shift levers; floor or column shift; ring gear; valve body; axle shafts; locking, non-locking transaxle when axle shafts differ; speedometer drive/adaptor and sensor; pan; yoke; neutral switch; governor.

NON-EXACT: Valve body wiring harness and solenoid; extension case; shift levers; speedometer drive/adaptor and sensor; converter housing; yoke; neutral switch; pump housing, converter.

401 Overdrive Unit

Domestic coverage from 1993 to present.

Foreign coverage from 1965 to present.

DEFINITION: Interchange contains complete overdrive unit, either as attached to transmission or as a separate piece.

INCLUDES: Overdrive unit, case, flange(s), levers, and hoses.

EXCLUDES: Transmission, mounts, driveshaft, dash controlled parts.

NON-EXACT: Gear ratio.

406 Pressure Plate

Domestic coverage from 1965 to 1997

Foreign coverage from 1965 to 1997

Coverage discontinued. Last updated for 1997 (63.04).

INCLUDES: Clutch pressure plate.

EXCLUDES: Clutch disc, flywheel, throw-out bearing.

CONSIDER: Long style (finger), diaphragm.

NON-EXACT: Diameter where larger replaces smaller.

NOTE: Note to "include throw-out bearing" when changing styles.

407 Torque Converter

Domestic coverage from 1965 to 1997

Foreign coverage from 1965 to 1997

Coverage discontinued. Last updated for 1997 (63.04).

INCLUDES: Starter ring on some models.

EXCLUDES: Flex plates.

CONSIDER: Stall speed by application.

NON-EXACT: Diameter, stall speed by engine/vehicle.

NOTE: See Part Type 400 (Transmission); Torque Converter included as part of that assembly.

408 Bell Housing

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Bell housing.

EXCLUDES: Flex plates, integral with transmission case designs.

CONSIDER: Transmission bolt pattern, clutch actuation.

NON-EXACT: Service replacement replaces OEM ONE-WAY ONLY.

409 Flywheel /Flex Plate

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Flywheel, drive or flex plate that bolts to the crankshaft flange. This part connects the torque converter or clutch assembly to the engine.

INCLUDES: Flywheel, flex or drive plate.

EXCLUDES: Clutch plate, disc, torque converter.

CONSIDER: Crankshaft; housing; clutch or torque converter size, bolt pattern.

410 Clutch Disc

Domestic coverage from 1965 to 1997

Foreign coverage from 1965 to 1997

Coverage discontinued. Last updated for 1997 (63.04).

INCLUDES: Clutch disc.

EXCLUDES: Flex plate, pressure plate, throw-out bearing.

CONSIDER: Solid or spring loaded, spline count.

NON-EXACT: Larger size replaces smaller size only.

412 Transfer Case Assembly

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Transfer case, shift levers; yoke; flange; extension; internal parts; shift motor.

EXCLUDES: Adapter; shift controls, crossmember.

CONSIDER: Cases; output shafts; power take off provision; speedometer gears; yokes; flanges; mounts, electronics and wiring.

NON-EXACT: Adapter; power take-off; speedometer gears; shift levers; mounts; yoke; flanges.

415 Flex Plate (Combined with PT 409)

417 Clutch Master Cylinder

Domestic coverage from 1980 to present.

Foreign coverage from 1965 to present.

INCLUDES: Clutch master cylinder.

EXCLUDES: Pedal assembly, lines, and linkage.

CONSIDER: Diameter, connections, lines.

NON-EXACT: Service replacement replaces OEM ONE-WAY ONLY.

418 Clutch Slave Cylinder

Domestic coverage from 1980 to present.

Foreign coverage from 1965 to present.

INCLUDES: Clutch slave or actuator.

EXCLUDES: Linkage or lines.

CONSIDER: Connections, lines.

NON-EXACT: Service replacement replaces OEM ONE-WAY ONLY.

420 Transfer Case Motor

Coverage from 1990 to present

DEFINITION: External, bolt-on transfer case encoder motor that attaches to the transfer case.

INCLUDES: Transfer case motor.

EXCLUDES: Transfer case module, transfer case.

CONSIDER: Type of transfer case, wiring.

NOTE: Internal motors are covered in Part Type 412 Transfer Case Assembly.

430 Drive Shaft, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Covers shafts that drive front axle only or engine accessories.

INCLUDES: Shaft or shafts, slip yoke and universal joints.

EXCLUDES: Pinion and transfer case drive flanges.

CONSIDER: Joint type, length.

NON-EXACT: Service replacement replaces OEM ONE-WAY ONLY.

431 Drive Shaft, Rear

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Covers shafts that drive rear axle and shafts that go from transmission to transfer case.

INCLUDES: Shaft or shafts, slip yoke and universal joints.

EXCLUDES: Pinion and transfer case drive flanges, center bearing.

CONSIDER: Joint type, length.

NON-EXACT: Service replacement replaces OEM ONE-WAY ONLY.

434 Axle Assembly, Front (4WD)

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Solid Axle (includes twin I beam) – Carrier, housing, internal parts, axle shafts; spindles; knuckles; hubs & brake assemblies.

I.F.S. Axle – Carrier, axle shafts.

EXCLUDES: Solid axle (includes twin I beam) - Springs; suspension parts.

I.F.S. Axle – Spindles, knuckles, hubs, control arms, struts & brake assemblies.

CONSIDER: Housing; axle shaft; ABS; disc; drum; spindle; knuckle; hub and bearings; axle ratios; brakes and how assembly is removed from vehicle.

NON-EXACT: Solid Axle (includes twin I beam) - ABS; hub; brakes; flange, significant ratio differences.

I.F.S. Axle – Ratio differences.

NOTES: Manual & auto-lock hubs; locking and non-locking differential.

435 Axle Assembly, Rear

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Carrier (if applicable); axle shafts; housing hubs; brake assemblies; pinion flange; all internal parts.

EXCLUDES: Springs, suspension components.

CONSIDER: Housing; axle shaft; ABS; disc, drum, emergency brake cables; hub and bearings; axle ratio and how assembly is removed from vehicle.

NON-EXACT: Hub; brakes; flanges; ratio differences, with & without A.B.S.

NOTE: Locking and non-locking differential.

437 Axle Housing

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Empty drive axle housing, including the Ford double jointed 4WD housings.

EXCLUDES: Drive axles, differential and parts, brakes.

CONSIDER: Width, brakes, location of leaf spring mounting.

NON-EXACT: ABS provision, differential locking design (where applicable).

440 Carrier Assembly

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Removable drive axle carriers and center section of independent suspension drive axles.
Must include ring gear and pinion.

INCLUDES: Carrier case, differential assembly, ring gears and pinion, inner axle flanges.

EXCLUDES: Axle shafts, control arms, any suspension parts.

NON-EXACT: Ratio differences, locking and non-locking (depending on manufacturer style, where applicable), with and without A.B.S.

NOTE: Locking and non-locking differential.

443 Differential Case

Foreign coverage from 1965 to 1993.

Part number interchange. Applies to 1965-1993 conventional rear drive models. . Coverage discontinued.

DEFINITION: Case that mounts the ring gear inside the carrier assembly or rear axle assembly.

INCLUDES: Case only.

EXCLUDES: Ring gear, spider gears, side gears and cross shaft, friction plates.

NON-EXACT: Locking and non-locking.

NOTE: Differential case differs for locking and non-locking.

444 Differential Assembly

Domestic coverage from 1974 to 1997

Foreign coverage from 1965 to 1997

Coverage discontinued. Last updated for 1997 (63.04).

DEFINITION: Case that mounts the ring gear inside the carrier assembly.

INCLUDES: Case and internal gears.

EXCLUDES: Ring gear.
NON-EXACT: Locking and non-locking.
NOTE: Differential assembly has no provision for pinion gear.

445 Ring Gear and Pinion

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Ring gear and pinion only. May include ring gear bolts and pinion companion flange.
EXCLUDES: Front wheel drive applications; differential case, bearings, shafts crush sleeve.
NON-EXACT: Sensor ring accommodation, number of ring gear bolts.

447 Axle Shaft

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Interchange as complete assembly. Axle shaft (outer assembly) does not include the jack-shaft. Although OEM numbers may differ between suppliers, interchange is seldom affected when the shaft is sold as an assembly. When right and left are different it is required that they be placed in separate interchanges. Give non-integral jack-shaft a separate interchange number. Integral type jack-shafts are part of the transaxle.

FWD, AWD, 4X4 - front

INCLUDES: Axle shaft assembly. Inner & outer stub shafts; joints; flanges; boots.
EXCLUDES: Axle flange, hub.
CONSIDER: Transaxle or carrier; inner coupling/flange; shaft diameter; splines; hub & bearings; knuckle.
Also consider shaft differences due to ABS.
NON-EXACT: ABS fits non-ABS where applicable, one way.

RWD, AWD, 4X4 - rear

INCLUDES: Axle shaft assembly. Inner & outer stub shafts (I.R.S.); joints; flanges; boots; bearings (pressed on).
EXCLUDES: Axle flange, hub.
CONSIDER: Transaxle or carrier; inner coupling/flange; shaft diameter; splines; hub & bearings; knuckle.
Also consider shaft differences due to ABS.
NON-EXACT: ABS fits non-ABS where applicable, one way.

475 Independent Rear Suspension Assembly

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Interchange covers independent rear suspension only, both for front and rear drive vehicles. Interchange should be in pairs unless an exact rate strut and/or spring replacement can be identified.
INCLUDES: Struts; upper control arms; spindles; knuckles, hubs; lower control arms, hub carrier; brakes.
May include removable crossmember on one piece assembly.
EXCLUDES: Drive line components, (axles, flanges, carrier and drive shaft) wheels and tires.
CONSIDER: Brakes; suspension options; mounting locations on body, brackets and mounting tabs.

NON-EXACT: ABS; brakes, electronic, air, or active suspension options.

476 Loaded Beam Axle

Domestic coverage from 1979 to present.

Foreign coverage from 1965 to present.

DEFINITION: Rear axle beam assembly is the loaded rear suspension bar on trailing beam type (non-driving) suspensions.

INCLUDES: Axle beam, struts (w/springs of coil over design), control arms, spindles, hubs, hub carrier, brakes and trailing rods (when applicable).

EXCLUDES: Independent type rear suspension, wheels and tires and conventional springs.

CONSIDER: ABS and suspension options.

NON-EXACT: Brakes and electronic/air and active suspension options.

477 Suspension Crossmember/K-Frame

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Removable main chassis structure and drive line component support members.

INCLUDES: Engine cradle, K-member, front and rear suspension members.

EXCLUDES: Transmission rear crossmembers

CONSIDER: Placement, purpose and service replacement.

NON-EXACT: Service replacement replaces OEM ONE-WAY ONLY.

490 Spindle/Knuckle/Stub Axle, Rear

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Outer rear bearing support or axle carrier for independent suspension rear wheel drive, removable stub axle, knuckle, spindle or combined hub and bearing (non-driving axle) for front wheel drive, pressed-on hub/bearing as assembly.

INCLUDES: Hub support, stub/spindle, pressed-in hub.

EXCLUDES: Attaching arms, brakes, bolt-on hubs, struts with integral spindle.

CONSIDER: A.B.S. sensor location.

NON-EXACT: Service replacement replaces OEM ONE-WAY ONLY

500 Frame

Domestic coverage from 1965 to present.

Foreign coverage from 1966 to present.

DEFINITION: Complete ladder or perimeter frame.

INCLUDES: Frame and riveted crossmembers.

EXCLUDES: Unitized or welded partial frames, removable crossmembers, suspension & steering components.

CONSIDER: Holes and brackets, gauge of steel.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

505 Upper Control Arm, Rear

Domestic coverage from 1984 to present.

Foreign coverage from 1971 to present.

DEFINITION: Any rear suspension arm that is mounted above the axle centerline.

INCLUDES: Upper control arm, rear; ball joints; shaft; bushings.

EXCLUDES: Braces, brackets, spindle or hub.

CONSIDER: Strut; lower control arm; spindle; knuckle; ball joints; shaft; bushings.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

506 formerly **Suspension Locating Arm** moved to Part Type 513 (69.01)

507 formerly **Suspension Trailing Arm** moved to Part Type 513 (69.01)

510 Knee, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Complete corner suspension assembly, (front only).

INCLUDES: Upper, lower control arms and spindle. Strut type includes strut; spindle; upper and lower control arm, pressed-in hub, spring and upper bearing plate.

EXCLUDES: Axles, brakes, separate hub.

CONSIDER: Wheel studs; hub, brake size; ball joints, sway bar mounts.

NON-EXACT: Control arms; spindle, pressed hub, ABS.

511 Upper Control Arm, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Any front suspension arm that is mounted above the axle centerline.

INCLUDES: Upper control arm, front; ball joints; shaft; bushings.

EXCLUDES: Axles, brakes, spindle.

CONSIDER: Strut; lower control arm; spindle; knuckle; ball joints; shaft; bushings.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY

512 Lower Control Arm, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Any front suspension arm that is mounted below the axle centerline.

INCLUDES: Lower control arm, front; ball joints; shaft; bushings.

EXCLUDES: Axles, brakes, spindle.

CONSIDER: Strut; upper control arm; spindle; knuckle; ball joints; shaft bushings, sway bar bushing mounts.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY

513 Lower Control Arm, Rear

Domestic coverage from 1965 to present (IRS vehicles).

Foreign coverage from 1965 to present.

DEFINITION: Any rear suspension arm that is mounted below the axle centerline.

INCLUDES: Lower control arm, rear, trailing arm; ball joints; shaft; bushings.

EXCLUDES: Axles, brakes, spindle

CONSIDER: Strut; upper control arm; spindle; knuckle; ball joints; shaft bushings.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY

NOTE: In some cases when R. and L. arms are the same, the ball joint needs to be reversed.

515 Spindle/Knuckle, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Turning spindle or knuckle on the front of a vehicle.

INCLUDES: Spindle/knuckle, pressed-in hub trailing arm, integral ball joints and bearings.

EXCLUDES: Strut with integral spindle, separate bolt-on hub, tie rods.

CONSIDER: Upper & lower control arms; hub bearings; A.B.S. sensors, caliper; wheel studs; strut.

NON-EXACT: A.B.S. replaces non-A.B.S.

NOTE: When spindle is part of a strut, coverage will be found under strut PT527.

516 Leaf Spring, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1968 to present.

INCLUDES: Leaf spring, front; bushings.

EXCLUDES: Shackles, eye bolts, and u-bolts.

CONSIDER: Leaf specifications; axle housing; mounting hardware.

NON-EXACT: Number of leaves; bushings; mounting hardware.

517 Coil/Air Spring

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Front and rear spring coils, air springs.

EXCLUDES: Captive coils used as part of a strut assembly.

CONSIDER: Options.

NOTE: Switch in pairs.

518 Leaf Spring, Rear

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Leaf spring, rear; bushings.

EXCLUDES: Shackles, eye bolts, and u-bolts.

CONSIDER: Leaf specifications; axle housing; mounting hardware.

NON-EXACT: Number of leaves; bushings; mounting hardware.

520 Front Axle I-Beam (2WD)

Domestic coverage from 1965 to present.

Foreign coverage from 1992 to present.

DEFINITION: Solid non-driving front axle, either beam or bar.

INCLUDES: Front axle.

EXCLUDES: 4WD front axle, hubs, spindles, brakes, springs, locating arms.

CONSIDER: Weight rating.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

521 Torsion Bar

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

Coverage discontinued. Last updated for 1997 (63.04)

DEFINITION: Torsion spring bar used in place of coil or leaf springs.

INCLUDES: Torsion bar.

EXCLUDES: Adjusting or anchor arms.

CONSIDER: Weight rating, suspension options.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

524 Stabilizer Bar

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Torsion spring bar used to improve handling by connecting two corner suspensions.

INCLUDES: Front and Rear . Stabilizer bar.

EXCLUDES: Adjusting or anchor arms.

CONSIDER: Weight rating, suspension options, bushings, and brackets.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

527 Strut

Domestic coverage from 1978 to present.

Foreign coverage from 1966 to present.

DEFINITION: Suspension sub-assembly consisting of strut tube & insert, coil spring, top bearing plate and bushings. Generally, suspensions that do not have a captive coil spring are not considered to be struts. If the strut/shock is encapsulated by the spring, it is considered a "strut".

INCLUDES: Strut, integral knuckle/spindle, spring coil, top bearing plate, pressed-on hub, backing plate.

EXCLUDES: Caliper, rotor, drive axle, bolt-on hubs.

CONSIDER: Lower control arm; hub; rotor; caliper, sway bar mounts.

NON-EXACT: A.B.S. fits w/o A.B.S.

NOTE: Performance or sport suspension is not generally an interchange consideration.

530 Brakes, Front

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Covers rotor, drum, rotor & hub and drum & hub. When drum, rotor and their hubs are

easily separated (fall apart), interchange as individual components. List rotor & hub and drum & hub as assemblies if pressed fit or non-separable.

DRUM

INCLUDES: Drum, wheel studs, pressed in bearings.

EXCLUDES: Backing plate, shoes, bearings unless pressed-in.

CONSIDER: Brake size; bolt circle; wheel studs; ABS.

NON-EXACT: Finned, flared or ribbed drum designs (set); service replacement or heavy duty replaces OEM ONE-WAY ONLY.

ROTOR

INCLUDES: Rotor, wheel studs, pressed in bearings.

EXCLUDES: Backing plate, caliper, bearings unless pressed-in.

CONSIDER: Rotor size; caliper; spindle; knuckle; bolt circle; wheel studs; ABS, separate sides (R/L).

NON-EXACT: Vented/non-vented; service replacement or A.B.S. replaces OEM ONE-WAY ONLY.

HUB & DRUM

INCLUDES: Hub and drum assembly, bearings (pressed in).

EXCLUDES: Shoes, backing plate.

CONSIDER: Brake size; bearings; bolt circle; wheel studs; ABS.

NON-EXACT: Finned, flared or ribbed drum designs (set). Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

HUB & ROTOR

INCLUDES: Rotor and hub assembly, wheel studs, pressed in bearings.

EXCLUDES: Backing plate, caliper, bearings unless pressed-in.

CONSIDER: Rotor size; caliper; spindle; knuckle; bearings; bolt circle; wheel studs; ABS.

NON-EXACT: Service replacement or A.B.S. replaces OEM ONE-WAY ONLY.

533 Brakes, Rear

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Covers rotor, drum, rotor & hub and drum & hub. When drum, rotor and their hubs are easily separated (fall apart), interchange as individual components. List rotor & hub and drum & hub as assemblies if pressed fit or non-separable.

DRUM

INCLUDES: Drum, wheel studs, pressed in bearings.

EXCLUDES: Backing plate, shoes, bearings unless pressed-in.

CONSIDER: Brake size; bolt circle; wheel studs; ABS.

NON-EXACT: Finned, flared or ribbed drum designs (set). Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

ROTOR

INCLUDES: Rotor, wheel studs, pressed in bearings.

EXCLUDES: Backing plate, caliper, bearings unless pressed-in.

CONSIDER: Rotor size; caliper; spindle; knuckle; bolt circle; wheel studs; ABS, separate sides (R/L).

NON-EXACT: Vented/non-vented; service replacement or A.B.S. replaces OEM ONE-WAY ONLY.

HUB & DRUM

INCLUDES: Hub and drum assemblies, bearings (pressed in).

EXCLUDES: Shoes, backing plate.

CONSIDER: Brake size; bearings; bolt circle; wheel studs; ABS.
NON-EXACT: Finned, flared or ribbed drum designs (set).

HUB & ROTOR

INCLUDES: Rotor and hub assemblies, wheel studs, pressed in bearings.
EXCLUDES: Backing plate, caliper, bearings unless pressed-in.
CONSIDER: Rotor size; caliper; spindle; knuckle; bearings;
bolt circle; wheel studs; ABS
NON-EXACT: Service replacement or A.B.S. replaces OEM ONE-WAY ONLY.

536 Caliper

Domestic coverage from 1965 to present.
Foreign coverage from 1965 to present.

INCLUDES: Caliper assembly.
EXCLUDES: Backing plate, hose.
CONSIDER: Rotor size; caliper style, brake pad sensor, ABS.
NON-EXACT: Service replacement or A.B.S. replaces OEM ONE-WAY ONLY.

538 Hub

Domestic coverage from 1965 to present.
Foreign coverage from 1965 to present.

INCLUDES: Front and rear hubs & extensions for DRW applications. One-piece hub and bearing, bolt-on hubs.
EXCLUDES: Rotor, drum.
CONSIDER: Spindle size; A.B.S. sensor.
NON-EXACT: Service replacement or A.B.S. replaces OEM ONE-WAY ONLY.

540 Power Brake Booster

Domestic coverage from 1965 to present.
Foreign coverage from 1965 to present.

INCLUDES: Brake booster, firewall bracket.
EXCLUDES: Master cylinder, hoses, lines.
CONSIDER: Diameter, depth.
NON-EXACT: Manufacturer where different, service replacement replaces OEM ONE-WAY ONLY.

541 Brake Master Cylinder

Domestic coverage from 1965 to present.
Foreign coverage from 1965 to present.

INCLUDES: Master cylinder, integral reservoir.
EXCLUDES: Brake booster.
CONSIDER: Diameter, number of ports.
NON-EXACT: Manufacturer where different, service replacement replaces OEM ONE-WAY ONLY.

545 Anti Lock Brake Parts

Domestic coverage from 1972 to present.

Foreign coverage from 1982 to present.

DEFINITION: Parts that comprise the Anti-Lock braking control.

INCLUDES: ABS assembly unless available only as separate parts. ABS pump assembly, accumulator unit, modulator, pump motor.

EXCLUDES: Electronic speed sensors, electronic control unit, brake parts, hydraulic lines, splitters and junctions.

CONSIDER: Function, location.

NON-EXACT: Manufacturer where different, service replacement replaces OEM ONE-WAY ONLY.

551 Steering Gear/Rack & Pinion

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

GEAR TYPE:

INCLUDES: Steering gear.

EXCLUDES: Pitman arm; coupler; mounting brackets; tie rods.

CONSIDER: Housing; pitman arm.

NON-EXACT: Steering ratio, fluid lines and fittings (power).

RACK & PINION TYPE:

INCLUDES: Rack and pinion; tie rods, power assist motor.

EXCLUDES: Coupler; mounting brackets.

CONSIDER: Housing; pinion shaft, tie rods, type of assist.

NON-EXACT: Steering ratio, fluid lines and fittings (power).

553 PS Pump/Motor

Domestic coverage from 1965 to present.

Foreign coverage from 1985 to present.

INCLUDES: Power steering pump and motor, reservoir and cooler (when integral with pump).

EXCLUDES: Pulley, brackets, hoses.

CONSIDER: Hoses; v-belt or serpentine belt and electronic assist.

NON-EXACT: Reservoir.

NOTES: Mounting brackets

560 Wheel

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: OEM road and spare wheels.

INCLUDES: OEM wheels, dealer installed OEM wheels, center caps (large) that cover or encircle the lug nuts.

EXCLUDES: Aftermarket wheels, center caps (small), trim rings, lug nuts or bolts.

CONSIDER: Width, diameter, offset, brake clearance.

NON-EXACT: Finish, texture, rim differences. TPMS fits one way; B fits A.

570 Wheel Cover

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Full OEM covers..

INCLUDES: Full wheel covers.

EXCLUDES: Center caps, partial covers, trim rings, mounts or security cables or tools.

NON-EXACT: Mounting type center caps; chrome; painted.

NOTE: Interchange may be limited between covers with glue-in center caps showing model name or logo.

590 Engine Control Module (ECU or ECM)

Domestic coverage from 1972 to present.

Foreign coverage from 1969 to present.

Coverage may vary by module type.

IMPORTANT INFORMATION REGARDING ANY AND ALL PARTS RELATED TO THE FUNCTION OF THE AIR BAG RESTRAINT.

Original Equipment Manufacturers warn that by installing a used part from another vehicle, or even a new part other than that specified by the manufacturer, the Supplemental Inflatable Restraint (SIR) System may not perform as designed. Even though parts look alike, they may function differently. Each system is tuned to that particular vehicle. Therefore, the vehicle manufacturers recommend never to use SIR components from another vehicle and never attempt to repair any SIR component. Service is intended to be by replacement with new parts only.

DEFINITION: Interchange covers electronic modules that control the operation of the engine, including timing and air/fuel ratios; also modules that control both engine and transmission functions (PCM's). Diagnostic modules are also covered in this section. The majority of the modules are located in the engine compartment or under the dash panel; however, manufacturers can place them in any location available. Modules receive input (information) from sensors or relays, process it and then based on that information make the necessary changes and adjustments to run that system. Even though sensors or relays may look like a module, sensors and relays are not modules because they only send or receive information (they do not process it).

INCLUDES: ECM's; ECU's; PCM's; ignition controller; power modules; logic modules.

EXCLUDES: Removable PROM's; chassis control modules; body control modules.

CONSIDER: The primary function of the module.

The following is list of the sub-heads used in this part type.

ACCELERATOR CONTROL

AIR & FUEL CONT

CALIBRATOR

COMBUSTION CONT

COMP NAT GAS (CNG)

DI/APC CONT

DIAGNOSTIC MODULE

ECM (ENGINE CONT)

EEC CONT (PROCESSOR)

ELEC CONT UNIT (ECU)

ELEC FUEL CONT

ELEC SPARK CONT

EMMISION CONT

FUEL INJ CONT

HYBRID/ECT CONT
IGNITION CONT
KNOCK SENSOR CONT
LAMBDA CONT
LOGIC MODULE
MULTIFUNCTION
PERFORMANCE CONT UNIT (EML)
POWER MODULE
SINGLE MODULE ENG. CONT (SMEC)
THROTTLE CONT
TURBO CONT
VALVE CONT

591 Chassis Control Modules

Domestic coverage from 1981 to present.

Foreign coverage from 1972 to present.

Coverage may vary by Model type.

IMPORTANT INFORMATION REGARDING ANY AND ALL PARTS RELATED TO THE FUNCTION OF THE AIR BAG RESTRAINT.

Original Equipment Manufacturers warn that by installing a used part from another vehicle, or even a new part other than that specified by the manufacturer, the Supplemental Inflatable Restraint (SIR) System may not perform as designed. Even though parts look alike, they may function differently. Each system is tuned to that particular vehicle. Therefore, the vehicle manufacturers recommend never to use SIR components from another vehicle and never attempt to repair any SIR component. Service is intended to be by replacement with new parts only.

DEFINITION: Electronic modules that control the operation of the suspension, transmission, interior function and brake system. Modules receive input (information) from sensors or relays, process it and then based on that information make the necessary changes and adjustments to run that system. Even though sensors or relays may look like a module, sensors and relays are not modules because they only send or receive information (they do not process it).

INCLUDES: Air bag control, electronic controlled struts; adjustable springs (air or hydraulic); speed sensing power steering; traction control; ABS (skid control); spin control; self-leveling; cruise control modules; electronic locking differential (of \$100 or more).

EXCLUDES: Transmission control modules that are combined (engine & transmission) are located in Engine Control Module (PT 590); relays; switches and sensors.

CONSIDER: The primary function of the module.

The following is list of the sub-heads used in this part type.

ABS
AIR BAG (also Occupant Detection)
BODY CONT (BCM)
COMMUNICATION
CONDITION INDICATOR
COOLING FAN
CRUISE CONT
DASH INTEGRATED CONT (DICE)
DIFFERENTIAL LOCK
DOOR
DRIVER ASSIST
FUEL PUMP

INFO/GTS/TV
LAMPS
MEMORY
MIRROR
MODULATOR ASSM
MULTIFUNCTION
MULTIPLEX NETWORK
NETWORK GATEWAY
PARKING BRAKE
POWER SUPPLY
PUMP
ROOF
SEAT
SEAT BELT
STABILITY CONT (Includes: Yaw Rate Module)
STEERING
SUNROOF
SUSPENSION (Includes: Tire Pressure Monitor)
TEMPERATURE (CLIMATE)
THEFT/LOCKING
TOWING CONT
TRACTION CONT
TRANSFER CASE
TRANSMISSION
WINDOW
WIPER SWITCH

594 Info/GPS/TV Screen

Domestic & Foreign coverage 1980 to present.

Coverage may vary by model type.

OEM part number generated.

DEFINITION: Display screens that provide information or video images (other than music) to the occupants of a vehicle.

INCLUDES: All display screens, players and controls (hard wired) that make up a visual system. This includes any Info/GPS/TV/Entertainment system (visual). Screens that display a visual image. Players that require a CD or DVD formatted disc from which one obtains a navigation or entertainment display.

EXCLUDES: Hand-held remote controls and radio (audio) display screen (covered in PT 638). Integral Temperature display screen (covered in PT 655). Processor or computer devices are covered in PT 591 under their prospective subheads. CD players or changers that play music only are covered in PT 638.

CONSIDER: Function, is it Audio (PT 638), Visual (PT 594) or an Integral Temperature Control (PT 655).

NOTE: Steer notes (Part Type cross references) must be used in all affected Part Types (594, 638 & 655).

NOTE: Use a "description" note to explain the main function.

NOTE: When there is more than one display unit within the vehicle the location of each must be listed in the index.

596 Camera/Projector

Coverage from 1965 to present. Four number interchange numbers required.

DEFINITION: Camera or projector device. Cameras receive visual information via a lens. Projectors send out a signal. Signal can be in the form of radio waves, laser beams, infrared rays or similar projections. Projector device coverage is limited to radar unit (adaptive cruise control) and head-updisplay usage only.

INCLUDES: Camera, head-up display and radar unit.

EXCLUDES: Modules or park assist/blind spot sensors.

CONSIDER: Operation of device.

600 Battery

INCLUDES: Hybrid and electric vehicle battery or battery pack.

EXCLUDES: 12-volt batteries (interchange does not include standard car batteries at this time).

NOTE: Always use (hybrid vehicle) or (electric vehicle) as the description on the index line.

601 Alternator

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Alternator and regulator if integral.

EXCLUDES: Brackets, pulley, and harness.

CONSIDER: Housing; brackets; v-belt or serpentine belt.

NON-EXACT: Amperage. Clock position when applicable.

NOTE: Amperage; clock position.

604 Starter Motor

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Starter motor and Bendix drive.

EXCLUDES: Remote mounted solenoid.

CONSIDER: Engine; transmission; flywheel; housing; and frame.

NON-EXACT: Torque capacities (identified by engine, etc.)

606 Distributor

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Conventional, individual firing style distributor, complete with all internal parts.

EXCLUDES: Distributor cap, coil or wires, coil pack ignition.

CONSIDER: Engine family.

NON-EXACT: Internal modules.

610 Coil

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Ignition coil(s); modules, ignitors.

EXCLUDES: Distributor, crank or camshaft timing sensors.

CONSIDER: Conventional coil or capacitive discharge style.

NOTE: Individual and coil pack components may interchange.

615 Blower Motor (HVAC)

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Motor.

EXCLUDES: Fan; resistor; switch.

NON-EXACT: Wiring differences connected with additional pigtails.

CONSIDER: Fan; heater box, housing, wiring.

617 Power Window Motor

Domestic coverage from 1965 to present.

Foreign coverage from 1967 to present.

INCLUDES: Motor.

EXCLUDES: Regulator, regulator arms (non-module types).

NON-EXACT: Wiring differences corrected with additional pigtails.

CONSIDER: Use in right and left doors or tailgate.

618 Wiper Motor, Rear

Domestic coverage from 1975 to present.

Foreign coverage from 1966 to present.

INCLUDES: Motor.

EXCLUDES: Wiper transmission unless integral, wiper arm (unless integral).

NON-EXACT: Wiring differences corrected with additional pigtails.

CONSIDER: Wiring, mounting brackets.

619 Headlamp Motor

Domestic coverage from 1965 to present.

Foreign coverage from 1970 to present.

INCLUDES: Motor.

EXCLUDES: Linkage unless integral, hinges, bucket, relays.

NON-EXACT: Wiring differences corrected with additional (service) pigtails.

CONSIDER: Wiring, mounting brackets.

620 Wiper Motor, Windshield

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Motor and washer pump when applicable, motor and transmission as an assembly.

EXCLUDES: Linkage, pivots and crank arm.

NON-EXACT: Pump; cover; wiring; mounting brackets.

621 Wiper Transmission

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

INCLUDES: Front and rear wiper transmissions unless integral with wiper motor, linkage; pivots; rods.

EXCLUDES: Motor; blades and arms.

CONSIDER: Motor and motor mounting.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

627 Washer Reservoir Assembly

Coverage from 2000 to present

DEFINITION: Front or rear washer reservoir or external container that holds windshield washer fluid.

INCLUDES: Reservoir or container, washer pump and washer solvent heater.

EXCLUDES: Radiator overflow tank.

CONSIDER: Location, pump, level sensor and cap.

629 Column Electrical Switch

Domestic coverage from 1997 to present.

Foreign coverage from 1965 to present.

DEFINITION: Column or steering wheel mounted switches which control turn signals, wiper/wash, headlamps or cruise control.

INCLUDES: Lamps, turn, wipers and cruise control switches mounted either on the column or steering wheel.

EXCLUDES: Audio and telephone switches, dash mounted switches, door and seat mounted switches.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

630 Headlamp Door/Cover

Domestic coverage from 1965 to present.

Foreign coverage from 1969 to present.

DEFINITION: Generally surrounds lamp. May have provisions for parklamp, marker lamp or cornering lamp. PT630 also includes covers for concealed headlamps (when not part of a bucket).

INCLUDES: Bezel.

EXCLUDES: Headlamp buckets.

NON-EXACT: Chrome, painted; finish differences.

633 Ignition Switch

Domestic coverage from 1997 to present.

Foreign coverage from 1965 to present.

INCLUDES: Electrical ignition switch, push button (only), unless lock, tumblers and steering shaft lock are integral.

EXCLUDES: Wiring, cover, mounting hardware.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

NOTE: Not separated by key code.

634 Convertible Top Motor

Domestic coverage from 1965 to present.

Foreign coverage from 1983 to present.

INCLUDES: Motor; pump and reservoir.

EXCLUDES: Linkages; line or valves; limit switches.

CONSIDER: Mounting brackets; power connections.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

635 Convertible Top Lift

Domestic coverage from 1965 to present.

Foreign coverage from 1985 to present.

INCLUDES: Linkages; gears; pistons; rams; cylinders, servos for moving roof.

EXCLUDES: Motor; pump; reservoir; lines.

CONSIDER: Motor; pump; mounts.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

638 Radio/Audio

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Covers radios of all capabilities, tape players, controls (hard-wired), CD players (single) and changers (multiple), amplifiers.

INCLUDES: Radio, receiver, face plates, control panel, tape players, CD players, CD changes and amplifiers.

EXCLUDES: Speakers (unless integral w/amplifier), hand-held remote controls, wiring.

CONSIDER: Function is it Audio (PT 638), Visual (PT 594) or an integral Temperature Control (PT 655), vehicle platform; sound system, wiring.

NON-EXACT: AM, FM options; stereo (MPX) cassette; CD (integral); electronic tuning (ETR); manual tuning (MTR); equalizer; when it can be determined that they are interchangeable, wiring.

NOTES: Knob differences.

641 Door Elec Switch (Driver's)

Coverage from 2000 to present

DEFINITION: Electric driver's door switch. These can be master switches (a conglomeration of door lock, window, mirror and any other switch that is grouped together as one unit) or single switches.

INCLUDES: Master electric switches and single switches on left front (driver) door only.

EXCLUDES: Any other switches that are not on the left front (driver) door.

CONSIDER: Function.

NOTE: See PT 659 Dash/Interior/Seat Switch for non- door switches.

642 Electric Door Motor

INCLUDES: Motor, module assemblies w/transmission.

EXCLUDES: Sensors, switches and control modules.

NON-EXACT: Wiring differences corrected with additional pigtails.

CONSIDER: Remote control.

NOTE: See PT 640 for trunk/hatch pull down motor and/or actuator.

655 Temperature Control

Domestic coverage from 1974 to present.

Foreign coverage from 1966 to present.

DEFINITION: Controller of cabin temperature for all locations; may be levers, buttons or solid state.

INCLUDES: Selector levers; fan switch; control monitor, climate control computer (when integral), front and rear when available.

EXCLUDES: Climate computer if remote; cables; hoses; valves

CONSIDER: Function is it Audio (PT 638), Visual (PT 594) or an integral Temperature Control (PT 655).

NON-EXACT: Wiring or service replacement fits OEM.

660 Electric Converter/Inverter/Charger

Coverage from 1990 to present. Four digit interchange numbers required.

DEFINITION: DC-DC Converter (direct current to direct current) converts the battery's high voltage to 12V for use by the vehicles accessories. The DC-AC Inverter (direct current to alternating current) converts direct current from the vehicle's battery to AC so that AC electrical devices can be used. The charger is the device that replenishes the electrical charge of the battery.

INCLUDES: DC-DC Converter & DC-AC Inverter & Charger

EXCLUDES: Relays or sensors.

CONSIDER: Its function.

NOTE: Hybrid technology differs between the manufacturers.

671 Coolant Reservoir

Coverage from 2000 to present

DEFINITION: Radiator overflow tank, intercooler tank or external container that holds coolant.

INCLUDES: Tank or container.

EXCLUDES: Washer reservoir, radiator, transmission & oil cooler.

CONSIDER: Coolant system.

NOTE: Composition is usually plastic, but manufacturer can make it from any material they deem applicable.

NOTE: See PT 627 for Washer Reservoir.

674 Radiator or Condenser Fan Motor/Fan Assembly

Domestic coverage from 1975 to present.

Foreign coverage from 1965 to present.

DEFINITION: Electric cooling fan assembly, electric cooling fan motor (when available) for radiator or AC condenser.

INCLUDES: Fan assembly (fan blade(s), fan motor(s), bracket and shroud), and/or fan motor.

EXCLUDES: Belt driven fan blades.

CONSIDER: Number of blades.

NON-EXACT: Wiring, higher capacity replaces lower capacity.

SUB HEADS: Motor Only
Fan Assembly

675 Radiator

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Coverage is of OEM supplied radiators

INCLUDES: Radiators, end tanks, internal oil coolers.

EXCLUDES: Separate transmission or engine oil coolers, hoses, adapters, clamps and specific cooler fittings.

CONSIDER: Core dimensions; radiator support; shroud; engine oil cooler; transmission oil cooler; heater hose connections; radiator hoses; coolant sensor, tubing rows.

NON-EXACT: Standard, heavy duty (rows, core thickness); coolant sensor; manual and auto transmission; engine oil cooler (one-way by plugging hole); hoses.

NOTE: Copper, aluminum unless of different dimensions.

676 Heater/Element Core

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Water heat radiating core from cabin heater.

INCLUDES: Heater core, element, front and rear.

EXCLUDES: Heater box, flaps, gaskets and hoses, hot air heating devices.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

677 Heater Assembly

Domestic coverage from 1979 to 1997

Foreign coverage from 1965 to 1997

Assembly built from heater and air conditioning parts.

DEFINITION: Complete cabin heater.

INCLUDES: Heater box; flaps; servos; heater core; evaporator (if necessary) blower motor.

EXCLUDES: Ducts; vents; hoses; refrigerant lines.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

679 Air Conditioner Condenser

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Refrigerant condenser for air conditioning system.

INCLUDES: Condenser.

EXCLUDES: Lines, mounts and drier.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

NOTE: R-134a and R-12 contaminated condensers are not considered interchangeable.

680 Air Conditioner Evaporator

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Refrigerant evaporator for air conditioning system.

INCLUDES: Evaporator core, evaporator assembly where no bare core is available.

EXCLUDES: Heater box, fittings, gaskets, and flaps.

NON-EXACT: Service replacement or heavy duty replaces OEM ONE-WAY ONLY.

NOTE: R-134a and R-12 contaminated evaporators are not considered interchangeable.

682 Air Conditioner Compressor

Domestic coverage from 1965 to present.

Foreign coverage from 1965 to present.

DEFINITION: Interchange covers compressor, clutch and pulley as an assembly. When options differ use the non-exact format.

INCLUDES: Compressor, clutch and pulley.

CONSIDER: Fittings, refrigerant, mounting points and brackets.

NON-EXACT: Clutch & pulley (V-belt & serpentine belt) and electrical switches.

NOTE: R-12 and R-134a compressors are not compatible

684 Air Conditioner Compressor Clutch

Domestic coverage from 1963 to 1996.

Foreign coverage from 1963 to 1996.

Coverage discontinued.

DEFINITION: Electromagnetic clutch that activates air conditioning compressor.

INCLUDES: Compressor clutch, pulley and field coil.

EXCLUDES: Compressor, belt.

NON-EXACT: Pulley belt grooves.