

# SATURN VUE 2002-03

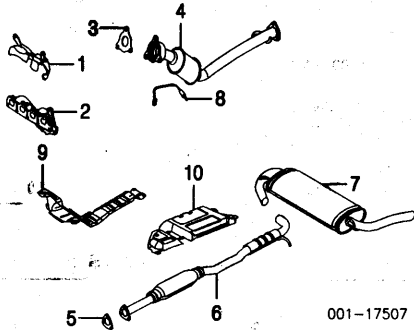
## AIR CLEANER Cont'd

|    |                       |          |      |       |
|----|-----------------------|----------|------|-------|
| 8  | 3.0L Eng              | 22676964 | 2    | 79.95 |
| 9  | Bracket, Duct Support | 22691103 |      | 20.35 |
| 10 | Sensor, Air Flow      | 55350433 | m .3 | 79.97 |
|    | 3.0L Eng              |          |      |       |
|    | Duct, Air Inlet       | 22684955 | 2    | 36.95 |
| 11 | 2.2L Eng              | 22684956 | 2    | 36.95 |
| 12 | 3.0L Eng              |          |      |       |

## EXHAUST

### 2.2L ENG

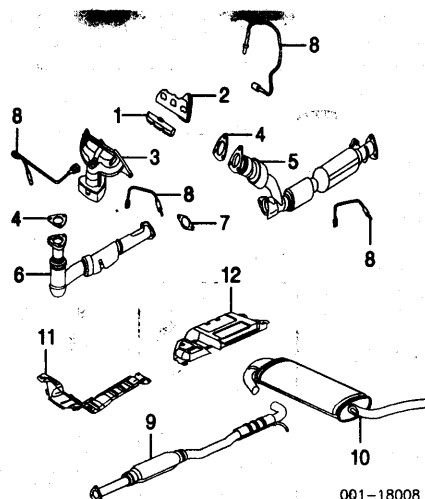
R&R Exhaust System Complete.....m #1.8  
#Does Not Include R&R Exhaust Manifolds & Heat Shield



|    |                           |          |       |         |
|----|---------------------------|----------|-------|---------|
| 1  | Shield, Heat              | 90537953 |       | 16.59   |
| 2  | Manifold, Exhaust         | 90537679 | m 2.0 | 148.13  |
| 3  | Gasket, Pipe              | 24576511 |       | 7.90    |
| 4  | Pipe & Converter, Exhaust | 22674262 | 1.0   | R595.00 |
| 5  | Gasket, Converter         | 22685135 |       | 4.95    |
| 6  | Pipe, Intermediate        | 22704014 | .9    | 179.95  |
| 7  | Muffler                   | 22703992 | .6    | 189.97  |
|    | [Includes Tailpipe]       |          |       |         |
| 8  | Sensor, Oxygen            | 12565680 | m .5  | 85.00   |
| 9  | Shield, Front Heat        | 21990516 | #.3   | 19.95   |
| 10 | Shield, Rear Heat         | 22688085 | #.3   | 19.95   |
|    | #w/Exhaust System Removed |          |       |         |

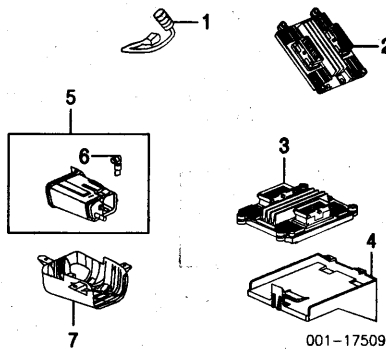
### 3.0L ENG

R&R Exhaust System Complete.....m #2.4  
#Does Not Include R&R Exhaust Manifolds & Heat Shield



|    |                           |              |       |          |
|----|---------------------------|--------------|-------|----------|
| 1  | Shield, Manifold Heat     | L 13105118   |       | 39.95    |
| 2  | Manifold, Right Exhaust   | 13105117     | m 4.8 | 285.00   |
| 3  | Manifold, Left Exhaust    | 90570541     | m 2.6 | 120.70   |
| 4  | Gasket, Pipe              | R/L 90570544 |       | 5.07     |
|    | Pipe & Converter, Exhaust |              |       |          |
| 5  | Right                     | 22698646     | 1.5   | R1180.00 |
| 6  | Left                      | 21990513     | 1.0   | R430.00  |
| 7  | Gasket, Converter         | 22684977     |       | 4.95     |
| 8  | Sensor, Oxygen (2/Side)   | R/L 24402859 | m .5  | 85.00    |
| 9  | Pipe, Intermediate        | 22703924     | .9    | 179.95   |
| 10 | Muffler, Rear             | 22666496     | .6    | 189.97   |
| 11 | Shield, Front Heat        | 21990516     |       | 19.95    |
| 12 | Shield, Rear Heat         | 22688085     |       | 19.95    |

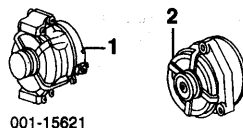
## EMISSION SYSTEM



|   |                                  |          |      |         |
|---|----------------------------------|----------|------|---------|
| 1 | Sensor, Knock                    | 12567711 | m .6 | 17.66   |
|   | 2.2L Eng                         | 90541521 | m .8 | 126.18  |
| 2 | Module, Eng Control              | 12202143 | m .7 | R625.21 |
|   | 3.0L Eng                         | 22681643 | m .7 | 650.00  |
| 3 | Module, Trans                    | 12212207 | m .6 | R459.00 |
| 4 | Bracket, Trans Module            | 22683840 |      | 3.75    |
|   | 2.2L Eng                         | 22683841 |      | 3.75    |
| 5 | Canister Assy, Vapor             | 22626890 | m .8 | 110.95  |
| 6 | Valve, Canister Vent             | 25321964 | m .1 | 21.95   |
|   | [Included w/Vapor Canister Assy] |          |      |         |
|   | Hose, Canister Vent              | 22675775 | m .1 | 29.97   |
| 7 | Bracket, Canister                | 22623654 |      | 24.95   |

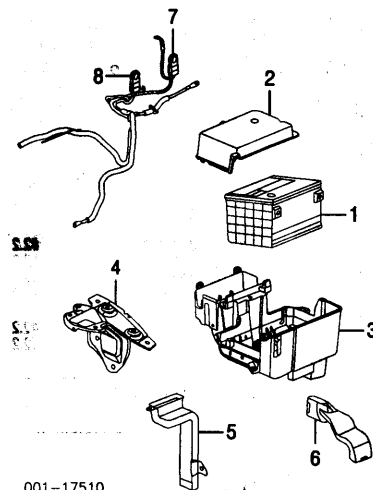
## ELECTRICAL

### ALTERNATOR



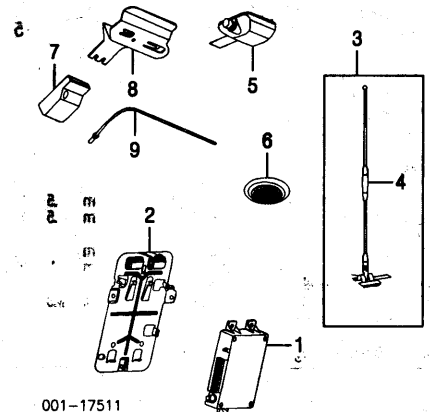
|            |          |          |       |         |
|------------|----------|----------|-------|---------|
| Alternator |          |          |       |         |
| 1          | 2.2L Eng | 22683070 | m 1.0 | R275.00 |
| 2          | 3.0L Eng | 22683071 | m 1.7 | R275.00 |

### BATTERY



|   |                      |          |    |       |
|---|----------------------|----------|----|-------|
| 1 | Battery              | N.A.     | .3 | 0.00  |
| 2 | Shield, Battery      | 21991025 |    | 39.95 |
| 3 | Tray, Battery        | 22696589 |    | 39.95 |
| 4 | Brkt, Tray Support   | 22625479 |    | 34.50 |
| 5 | Duct, Cooling Outlet | 22633688 |    | 18.50 |
| 6 | Duct, Cooling Inlet  | 22633686 |    | 18.50 |
| 7 | Cable, Positive      | 22683707 | .7 | 37.95 |
|   | 2.2L Eng             | 22683709 | .7 | 40.95 |
| 8 | Cable, Negative      | 22683706 | .8 | 42.95 |
|   | 2.2L Eng             | 22683708 | .8 | 43.95 |
|   | 3.0L Eng             |          |    |       |

## COMMUNICATIONS SYSTEM



|   |                                 |          |      |         |
|---|---------------------------------|----------|------|---------|
| 1 | Module, On-Star                 | 22705041 | m .7 | R725.00 |
| 2 | Bracket, Module                 | 22661019 |      | 29.95   |
| 3 | Antenna Assy, Phone             | 12451015 | m .1 | 38.69   |
| 4 | Antenna, Telephone              | 12451014 | m .7 | 27.25   |
|   | [Included w/Phone Antenna Assy] |          |      |         |
| 5 | Coupling, Inner Telephone       | 12450572 | m .1 | 30.08   |
| 6 | Microphone, Telephone           | 12451198 | m .1 | 49.97   |
| 7 | Antenna, Navigation             | 12450669 | m .9 | 68.25   |
| 8 | Plate, Antenna Ground           | 22669762 |      | 49.95   |
| 9 | Cable, Antenna                  | 22687309 | m .1 | 59.95   |

### HORN



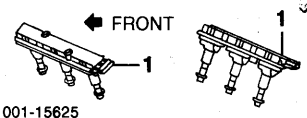
|   |                                  |          |     |       |
|---|----------------------------------|----------|-----|-------|
| 1 | Horn                             | 21990503 | #.1 | 32.95 |
|   | #w/Left Combination Lamp Removed |          |     |       |

### IGNITION 2.2L ENG



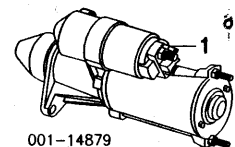
|   |                  |          |      |        |
|---|------------------|----------|------|--------|
| 1 | Module, Ignition | 12589276 | m .6 | 192.02 |
|---|------------------|----------|------|--------|

### IGNITION 3.0L ENG



|   |                |           |        |        |
|---|----------------|-----------|--------|--------|
| 1 | Coil, Ignition | R 9118114 | m #1.9 | 104.24 |
|   |                | L 9118115 | m #1.0 | 104.24 |
|   | #R&R Both 2.6  |           |        |        |

### STARTER

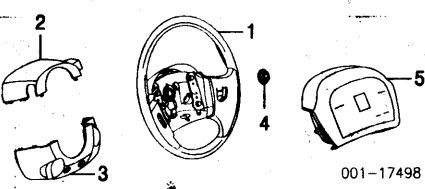


|   |          |          |       |         |
|---|----------|----------|-------|---------|
| 1 | Starter  | 12575083 | m .8  | R190.00 |
|   | 2.2L Eng | 24451168 | m 1.6 | R163.55 |
|   | 3.0L Eng |          |       |         |

## WINDSHIELD

Use Procedure Explanation 13 with the following text.

|                                              |      |
|----------------------------------------------|------|
| R&I Windshield Glass                         | #2.9 |
| #Includes Clean Up Old Adhesive as Necessary |      |



001-17498

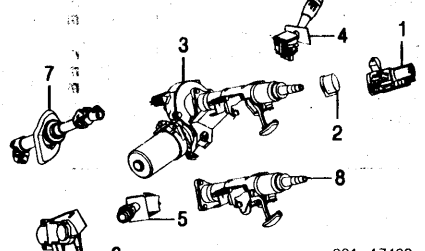
2003  
Vinyl  
w/Cruise Control  
w/o Cruise Control  
Leather  
Gray  
Neutral

|          |   |    |        |
|----------|---|----|--------|
| 22675310 | m | 5  | 179.95 |
| 22675307 | m | 5  | 139.95 |
| 22675137 | m | 5  | 395.00 |
| 22675138 | m | 5  | 395.00 |
| 22699946 | m | #3 | 18.95  |
| 22688384 | m | #3 | 18.95  |
| 21044092 | m |    | .71    |

2 Nut, Steering Wheel  
5 Module, Driver Air Bag-See Air Bag System Section

**COLUMN**

|                                         |   |     |
|-----------------------------------------|---|-----|
| R&I Steering Column.....                | m | 1.6 |
| O/H Steering Column (Includes R&I)..... | m | 2.7 |



001-17499

|          |   |     |         |
|----------|---|-----|---------|
| 22692788 | m | .8  | 89.95   |
| 21024609 | m | .6  | 40.59   |
| 22699277 | m | 1.9 | d795.00 |
| 22699276 | m | 1.9 | d795.00 |
| 22666286 | m | .6  | 20.87   |
| 22679804 | m | .6  | 19.74   |
| 22685277 | m |     | 15.95   |
| 22699274 | m | 2.7 | 149.95  |
| 22699275 | m | 2.7 | 319.95  |

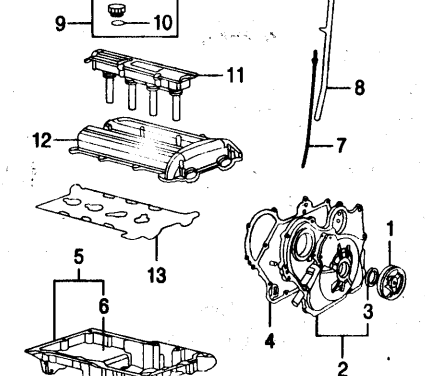
1 Housing, Ignition  
2 Switch, Ignition  
3 Column, Steering  
4 Switch, Windshield Washer  
5 Switch, Signal/Dimmer  
6 Bracket, Switch  
7 Shaft, Steering  
8 Jacket, Column

**ENGINE/TRANS**

Use Procedure Explanation 12 with the following text.

**2.2L ENG**

|                            |   |     |
|----------------------------|---|-----|
| R&I Engine/Trans Assy..... | m | 9.4 |
|----------------------------|---|-----|



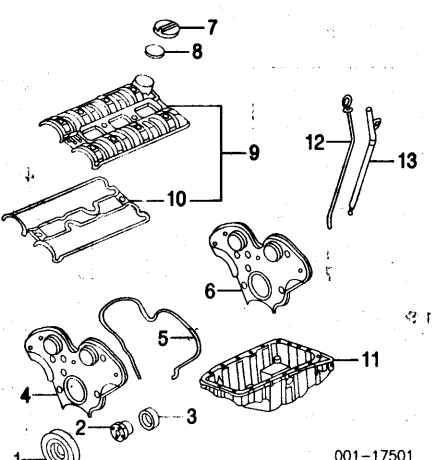
001-17633

|             |   |      |        |
|-------------|---|------|--------|
| 90537704    | m | 1.5  | 38.02  |
| 02 24450057 | m | #4.0 | 132.37 |
| 03 24450057 | m | #4.0 | 132.37 |
| 90571925    | m |      | 10.61  |
| 24435052    | m |      | 23.41  |
| 24406361    | m | 2.6  | 102.00 |
| 24406368    | m |      | 24.97  |
| 24428553    | m |      | 4.93   |
| 24441585    | m | .5   | 10.00  |
| 12573342    | m |      | 7.28   |
| 24100002    | m |      | .80    |

1 Balancer, Crankshaft  
2 Cover Assy, Timing  
3 Seal, Timing Cover  
4 Gasket, Timing Cover  
5 Pan Assy, Engine Oil  
6 Baffle, Eng Oil Pan  
7 Dipstick, Eng Oil  
8 Tube, Eng Dipstick  
9 Cap Assy, Eng Oil Filler  
10 Seal, Oil Filler Cap  
11 Module, Ignition-See Electrical Section

|                        |             |   |     |        |
|------------------------|-------------|---|-----|--------|
| 12 Cover, Valve        | 02 24426735 | m | 1.0 | 148.13 |
| 13 Gasket, Valve Cover | 03 24426069 | m | 1.0 | 148.13 |
| Pan, Trans Oil         | 90537319    | m | .7  | 15.94  |
|                        | N.A.        | m |     | 0.00   |

**3.0L ENG**



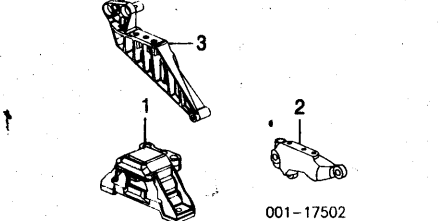
001-17501

|          |   |      |        |
|----------|---|------|--------|
| 13101722 | m | 1.0  | 60.35  |
| 90409548 | m |      | 19.75  |
| 90298202 | m |      | 23.04  |
| 90572779 | m | #2.8 | 75.71  |
| 24416763 | m |      | 9.61   |
| 24449774 | m |      | 49.38  |
| 24437483 | m |      | 8.34   |
| 90448217 | m | #2.5 | 61.51  |
| 90573538 | m | #1.9 | 61.51  |
| 90573537 | m |      | 51.25  |
| 90511451 | m |      | 135.00 |
| 24443273 | m | 1.3  | 7.68   |
| 9202057  | m | .5   | 19.77  |
| 24467217 | m | .7   | 0.00   |

1 Balancer, Crankshaft  
2 Sprocket, Crankshaft  
3 Spacer, Crankshaft  
4 Cover, Front Timing  
5 Gasket, Timing Cover  
6 Cover, Rear Timing  
7 Cap, Oil Filler  
8 Seal, Filler Cap  
9 Cover Assy, Valve  
10 Gasket, Valve Cover  
11 Pan, Eng Oil  
12 Dipstick, Eng Oil  
13 Tube, Eng Dipstick  
Pan, Trans Oil

**ENGINE/TRANS MOUNTS**

**ENGINE MOUNTS**

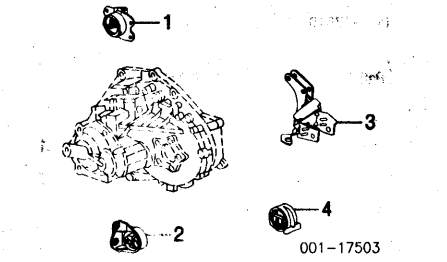


001-17502

|             |      |       |
|-------------|------|-------|
| 02 22688492 | #2.2 | 70.00 |
| 03 22698350 | #2.2 | 70.00 |
| 02 22688493 | #2.2 | 70.00 |
| 03 22698349 | #2.2 | 70.00 |
| 22689529    | #2.2 | 28.95 |
| 22690486    | #2.2 | 33.95 |

1 Mount, Front Eng  
2 Mount, Front Lwr  
3 Mount, Rear Eng  
4 Mount, Rear Lwr  
5 Mount, Rear Trans

**TRANS MOUNTS  
MAN TRANS**



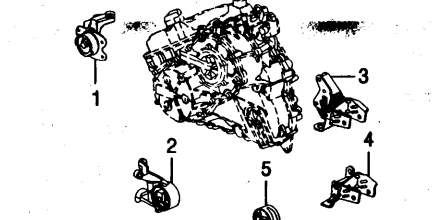
001-17503

|          |    |       |
|----------|----|-------|
| 22685801 | .7 | 53.50 |
|----------|----|-------|

1 Mount, Front Up

|                       |          |     |       |
|-----------------------|----------|-----|-------|
| 2 Mount, Front Lwr    | 22695627 | .8  | 53.50 |
| 3 Bracket, Rear Mount | 22685891 |     | 49.95 |
| 4 Mount, Rear Trans   | 22695629 | 1.8 | 54.95 |

**TRANS MOUNTS  
AUTO TRANS  
W/VARIABLE TRANS**

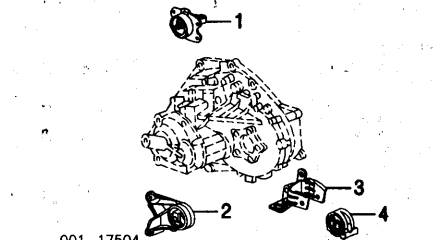


001-17505

|          |     |       |
|----------|-----|-------|
| 22685802 | .8  | 53.50 |
| 22695628 | .9  | 53.50 |
| 21991333 |     | 39.95 |
| 21990428 |     | 31.95 |
| 22695629 | 2.0 | 54.95 |

1 Mount, Front Up  
2 Mount, Front Lwr  
3 Bracket, Rear Mount  
4 FWD  
5 AWD  
6 Mount, Rear Trans

**TRANS MOUNTS  
AUTO TRANS  
W/O VARIABLE TRANS**



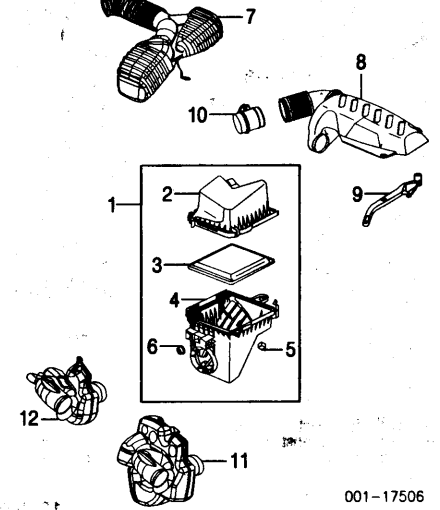
001-17504

|          |     |       |
|----------|-----|-------|
| 22685803 | .8  | 53.50 |
| 21990405 | 1.0 | 53.50 |
| 22690173 |     | 39.95 |
| 21990426 | 2.0 | 44.50 |

1 Mount, Front Up  
2 Mount, Front Lwr  
3 Bracket, Rear Mount  
4 Mount, Rear Trans

**AIR CLEANER**

|                           |    |
|---------------------------|----|
| R&I Air Cleaner Assy..... | .5 |
|---------------------------|----|



001-17506

|          |    |        |
|----------|----|--------|
| 22633496 | .5 | 148.00 |
| 22676965 | .5 | 79.95  |
| 22676966 | .2 | 49.95  |
| 22676967 | .2 | 49.95  |
| 22676970 | .3 | 15.97  |
| 22676969 | .6 | 49.95  |
| 24574935 |    | 4.90   |
| 22676972 |    | 5.95   |
| 22676963 | .2 | 59.95  |

1 Cleaner Assy, Air  
2 Cover, Air Cleaner  
3 Element, Air Cleaner  
4 Housing, Air Cleaner  
5 Grommet, Housing  
6 Insulator, Housing  
7 Duct, Air Outlet  
8 2.2L Eng  
9 3.0L Eng  
10 2.2L Eng  
11 3.0L Eng

# **SATURN VUE 2002-03**

## **ABS/BRAKES Cont'd**

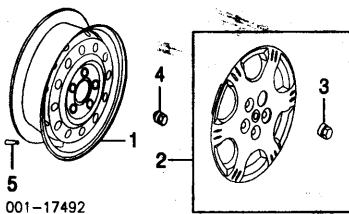
|                                        |              |        |         |  |
|----------------------------------------|--------------|--------|---------|--|
| <b>#R&amp;R Both .8</b>                |              |        |         |  |
| Rear                                   | R/L 22703077 | m #1.3 | 34.97   |  |
| <b>#R&amp;R Both 1.9</b>               |              |        |         |  |
| 2 Cylinder Assy, Brake Master          | 22676179     | m 1.7  | R165.00 |  |
| 3 Reservoir Assy, Cylinder             | 22676178     | m      | 29.97   |  |
| 4 Cap, Reservoir (a)                   | 22672085     |        | 9.25    |  |
| 5 Sensor, Fluid Level (a)              | 22672096     | m      | 39.97   |  |
| *Included w/Brake Master Cylinder Assy |              |        |         |  |
| 6 Booster, Brake                       | 02 21990484  | m #2.5 | 279.97  |  |
|                                        | 03 22698038  | m #2.5 | 0.00    |  |
| <b>#w/Traction Control Add .7</b>      |              |        |         |  |
| Valve, Proportioning                   | 21990821     | m      | 22.97   |  |
| 7 Valve Assy, Modulator                |              |        |         |  |
| w/Traction Control                     | 02 22667087  | m 2.6  | 495.97  |  |
|                                        | 03 22702794  | m 2.6  | 0.00    |  |
| w/o Traction Control                   | 02 22667088  | m 2.6  | 495.97  |  |
|                                        | 03 22695621  | m 2.6  | 495.97  |  |
| 8 Module, Brake Control                |              |        |         |  |
| w/Traction Control                     | 22701027     | m 2.6  | 0.00    |  |
| w/o Traction Control                   | 22667086     | m 2.6  | 447.86  |  |
| *Included w/Modulator Valve Assy       |              |        |         |  |
| 9 Bracket, Valve                       | 21990520     |        | 19.95   |  |

## **WHEEL**

Use Procedure Explanation 10 with the following text.

### **STEEL WHEEL**

|                                         |   |
|-----------------------------------------|---|
| Refinish Wheel.....                     | 5 |
| Add to R&I Spare Wheel & Tire Assy..... | 2 |

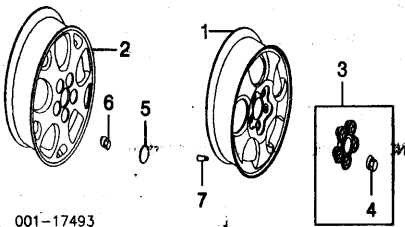


001-17492

|                              |          |   |        |
|------------------------------|----------|---|--------|
| 1 Wheel, Steel               | 9593083  | 3 | 174.50 |
| 2 Cover Assy, Wheel          | 22624423 |   | 34.50  |
| 3 Cap, Lug Nut (20)          | 9594434  |   | 2.05   |
| *Included w/Wheel Cover Assy |          |   |        |
| 4 Nut, Lug                   | 10194314 |   | 2.70   |
| 5 Stem, Valve                | 274119   |   | 1.81   |

### **ALLOY WHEEL**

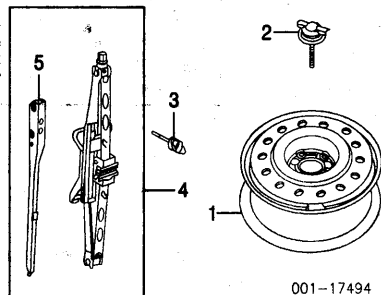
|                                         |   |
|-----------------------------------------|---|
| Add to R&I Spare Wheel & Tire Assy..... | 2 |
|-----------------------------------------|---|



001-17493

|                             |          |   |        |
|-----------------------------|----------|---|--------|
| Wheel, Alloy                |          |   |        |
| 1 2.2L Eng                  | 21991028 | 3 | 299.95 |
| 2 3.0L Eng                  | 9594208  | 3 | 295.00 |
| 3 Cap Assy, Center          | 22624424 |   | 20.50  |
| 4 Cap, Lug Nut (20)         | 9594434  |   | 2.05   |
| *Included w/Center Cap Assy |          |   |        |
| 5 Cap, Center               | 9594209  |   | 13.50  |
| 6 Nut, Lug                  | 10194314 |   | 2.70   |
| 7 Stem, Valve               | 274288   |   | 1.81   |

### **SPARE WHEEL & HARDWARE**



001-17494

|                         |          |       |
|-------------------------|----------|-------|
| 1 Wheel, Spare          | 9593686  | 98.70 |
| 2 Retainer, Spare Wheel | 11519500 | 9.95  |
| 3 Bolt, Jack Retainer   | 11518698 | 4.95  |
| 4 Jack Assy             | 22703472 | 79.95 |
| 5 Handle, Jack          | 25606055 | 16.50 |
| *Included w/Jack Assy   |          |       |

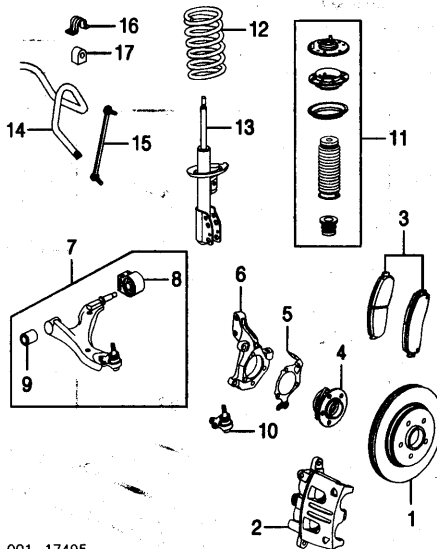
## **FRONT SUSPENSION**

Use Procedure Explanation 11 with the following text.

|                                   |          |
|-----------------------------------|----------|
| R&I Suspension (One Side).....    | R/Lm 1.5 |
| O/H Suspension (Includes R&I)     |          |
| One Side.....                     | R/Lm 2.5 |
| Both Sides.....                   | m 4.8    |
| Adjust Four Wheel Alignment.....  | m 2.0    |
| Adjust Front Wheel Alignment..... | m 1.3    |
| Bleed Brake System.....           |          |
| Mount, Front Lwr.....             | m .5     |
| w/o ABS.....                      | m .3     |

NOTE 1: R&I/R&R or O/H Does Not include alignment or bleed brake system.

NOTE 2: All Parts In this section are included in overhaul unless noted otherwise.



001-17495

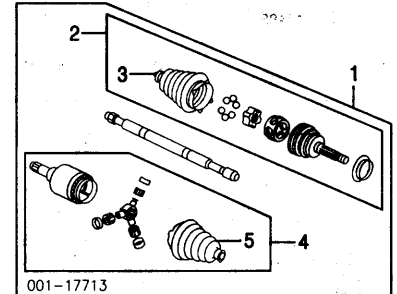
|                                                                                                 |                   |        |         |
|-------------------------------------------------------------------------------------------------|-------------------|--------|---------|
| 1 Rotor, Brake                                                                                  | R/L 22666578      | m #.6  | 87.97   |
| <b>#R&amp;R Both 1.0</b>                                                                        |                   |        |         |
| 2 Caliper, Brake                                                                                | R/L 22672077-6    | m #.5  | R145.00 |
| <b>#R&amp;R Both .8, w/Brake Rotor Removed Deduct .3</b>                                        |                   |        |         |
| 3 Pad Set, Brake                                                                                | 21990460          | m #1.0 | 85.70   |
| <b>#Deduct .5 w/Each Brake Caliper Removed</b>                                                  |                   |        |         |
| 4 Hub, Front                                                                                    |                   |        |         |
| w/ABS                                                                                           | R/L 21990564      | m #.9  | 109.95  |
| w/o ABS                                                                                         | R/L 21990449      | m #.9  | 94.95   |
| Sensor, Front ABS Speed-See ABS/Brakes Section                                                  |                   |        |         |
| 5 Plate, Backing                                                                                | R/L 22672091-0    | m #.9  | 10.97   |
| <b>#R&amp;R One Side Complete, Includes R&amp;R Brake Rotor, R&amp;R Both Sides 1.6</b>         |                   |        |         |
| 6 Knuckle, Steering                                                                             | R/L 22682851-0    | m #1.3 | 195.00  |
| <b>#Includes R&amp;R Brake Rotor, Front Hub &amp; Backing Plate, R&amp;R Both 2.4</b>           |                   |        |         |
| 7 Arm Assy, Lower Control                                                                       | R/L 21990431-0    | m #.8  | 185.00  |
| <b>#R&amp;R Both 1.4, w/Steering Knuckle Removed Deduct .4</b>                                  |                   |        |         |
| 8 Bushing, Front                                                                                | R/L 21990368      | m #1.1 | 27.95   |
| 9 Bushing, Rear                                                                                 | R/L 21990364      | m #1.1 | 11.95   |
| <b>*Included w/Lower Control Arm Assy</b>                                                       |                   |        |         |
| <b>#R&amp;R One Side Complete</b>                                                               |                   |        |         |
| 10 Joint, Ball                                                                                  | R/L 22688405      | m #.4  | 49.98   |
| <b>#w/Lower Control Arm Assy Removed</b>                                                        |                   |        |         |
| 11 Mount, Strut                                                                                 | R/L 22677007      | m #1.4 | 89.95   |
| 12 Spring, Coil                                                                                 |                   |        |         |
| 2.2L Eng                                                                                        |                   |        |         |
| Man Trans                                                                                       | R/L 22672548-7    | m #1.4 | 64.25   |
| Auto Trans                                                                                      |                   |        |         |
| FWD                                                                                             | R/L 22672548-9    | m #1.4 | 64.25   |
| AWD                                                                                             | R/L 22672551-0    | m #1.4 | 64.25   |
| 3.0L Eng                                                                                        | R/L 22672553-2    | m #1.4 | 64.25   |
| 13 Strut, Front                                                                                 |                   |        |         |
| 2.2L Eng                                                                                        | 02 R/L 22694726-5 | m #1.4 | 129.97  |
|                                                                                                 | 03 R/L 22689912-1 | m #1.4 | 129.97  |
| 3.0L Eng                                                                                        | 02 R/L 22694726-7 | m #1.4 | 129.97  |
|                                                                                                 | 03 R/L 22689914-3 |        | 129.97  |
| <b>#R&amp;R One Side Complete, w/Steering Knuckle Removed Deduct .9, R&amp;R Both Sides 2.6</b> |                   |        |         |
| 14 Bar, Stabilizer                                                                              |                   |        |         |
| 2.2L Eng                                                                                        | 21990439          | m #1.3 | 69.97   |
| 3.0L Eng                                                                                        | 22624756          | m #1.3 | 69.97   |
| <b>*Includes R&amp;R Stabilizer Link, Bushings &amp; Clamps, Not Included in O/H</b>            |                   |        |         |
| 15 Link, Stabilizer                                                                             | R/L 21991666      | m #.4  | 41.95   |
| <b>*Order by Application</b>                                                                    |                   |        |         |
| <b>*Not Included in O/H</b>                                                                     |                   |        |         |

|                                                        |              |       |      |
|--------------------------------------------------------|--------------|-------|------|
| 16 Clamp, Stabilizer Bushing                           | R/L 10445399 | m #.3 | 4.55 |
| 17 Bushing, Stabilizer                                 | R/L 22629084 | m #.3 | 7.95 |
| <b>#R&amp;R One Side Complete, Not Included in O/H</b> |              |       |      |

## **FRONT DRIVE AXLE**

|                                              |           |
|----------------------------------------------|-----------|
| R&I Axle Shaft Assy.....                     | R/Lm #1.1 |
| O/H Axle Shaft Assy.....                     | R/Lm #1.7 |
| <b>#w/Steering Knuckle Removed Deduct .8</b> |           |

NOTE: All Parts in this section are included in overhaul unless noted otherwise.

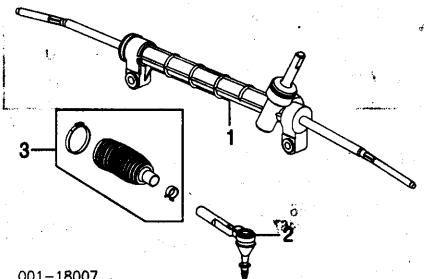


001-17713

|                                                                         |                |        |        |
|-------------------------------------------------------------------------|----------------|--------|--------|
| 1 Shaft Assy, Axle                                                      |                |        |        |
| 2.2L Eng                                                                |                |        |        |
| Man Trans                                                               | R 22672846     | m #1.1 | 369.00 |
|                                                                         | L 21991243     | m #1.1 | 369.00 |
| Auto Trans                                                              | R 22626886     | m #1.1 | 369.00 |
|                                                                         | L 21991241     | m #1.1 | 369.00 |
| 3.0L Eng                                                                | R/L 22626886-7 | m #1.1 | 369.00 |
| <b>#w/Steering Knuckle Removed Deduct .8</b>                            |                |        |        |
| 2 Joint Assy, Outer (a)                                                 | R/L 22674182   | m #1.7 | 199.95 |
| <b>(a) Order by Application</b>                                         |                |        |        |
| 3 Boot, Outer (b)                                                       | R/L 22674175   | m #1.7 | 33.95  |
| <b>(b) Included w/Outer Joint Assy</b>                                  |                |        |        |
| 4 Joint Assy, Inner                                                     |                |        |        |
| 2.2L Eng                                                                |                |        |        |
| Man Trans                                                               | R 22674180     | m #1.7 | 199.95 |
|                                                                         | L 22674178     | m #1.7 | 199.95 |
| Auto Trans                                                              |                |        |        |
| FWD                                                                     | R 22674180     | m #1.7 | 199.95 |
|                                                                         | L 22674178     | m #1.7 | 199.95 |
| AWD                                                                     | R/L 22674179-8 | m #1.7 | 199.95 |
| 3.0L Eng                                                                | R 22674179     | m #1.7 | 199.95 |
|                                                                         | L 22674181     | m #1.7 | 199.95 |
| 5 Boot, Inner Joint (a)                                                 | R/L 22674174   | m #1.7 | 33.95  |
| <b>*Included w/Axle Shaft Assy</b>                                      |                |        |        |
| <b>(a) Included w/Inner Joint Assy</b>                                  |                |        |        |
| <b>#R&amp;R One Side Complete, w/Steering Knuckle Removed Deduct .8</b> |                |        |        |

## **FRONT STEERING LINKAGE/GEAR**

|                        |       |
|------------------------|-------|
| R&I Steering Gear..... | m 2.1 |
|------------------------|-------|



001-18007

|                                      |              |       |         |
|--------------------------------------|--------------|-------|---------|
| 1 Gear, Steering                     | 02 22664789  | m 2.7 | R720.00 |
|                                      | 03 22700182  | m 2.7 | R720.00 |
| 2 End, Tie Rod                       | R/L 22664783 | m .3  | 47.98   |
| 3 Boot, Steering Gear                | R/L 22664787 | m #.6 | 21.95   |
| <b>*Includes R&amp;R Tie Rod End</b> |              |       |         |

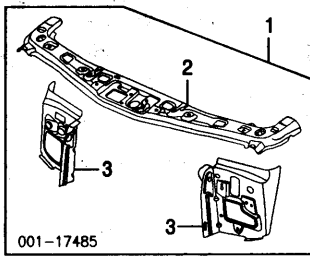
## **STEERING WHEEL/COLUMN**

NOTE: All Parts in this section are included in overhaul unless noted otherwise.

### **WHEEL & TRIM**

Illustration Located in Next Column

|                    |          |      |        |
|--------------------|----------|------|--------|
| 1 Wheel, Steering  |          |      |        |
| 2002               |          |      |        |
| w/Cruise Control   | 22675310 | m .5 | 179.95 |
| w/o Cruise Control | 22675307 | m .5 | 139.95 |



001-17485

- 3 Panel, Front]] R/L 22675502-1 s 2.0 64.95  
*#Included w/Upper Tie Bar Assy*

**SIDE**

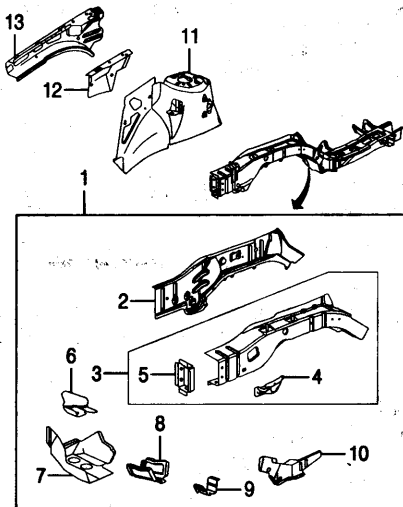
|                                         |     |      |
|-----------------------------------------|-----|------|
| Refinish Side Rail Assy.....            | R/L | 1.0  |
| Refinish Outer Side Rail.....           | R/L | .8   |
| Refinish Inner Side Rail Assy.....      | R/L | .8   |
| Refinish Front Support.....             | R/L | .3   |
| Refinish Inner Bumper Bracket.....      | R/L | .3   |
| Refinish Lower Side Rail Extension..... | R/L | .5   |
| Refinish Apron Assy.....                | R/L | 1.0  |
| Refinish Front Wheelhouse Panel.....    | R/L | 1.0  |
| Refinish Wheelhouse Upper Rail.....     | R/L | .5   |
| Section Front Wheelhouse Panel.....     | R/L | #2.5 |

*#Section in Front of Shock Tower at Factory Seam, w/Upper Tie Bar Assy or Front Panel Removed*

|                              |     |      |
|------------------------------|-----|------|
| Section Outer Side Rail..... | R/L | #3.0 |
| Section Inner Side Rail..... | R/L | #4.5 |

*#Section in Front Edge of Die Mark, Section Both One Side 5.5*

**NOTE:** For Sectioning methods refer to Manufacturer's Body Repair Manual.

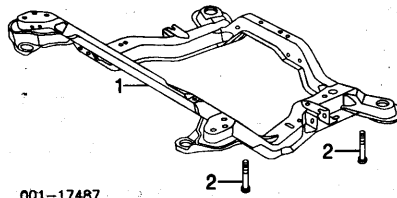


001-17712

|                                                                                                            |            |   |      |        |
|------------------------------------------------------------------------------------------------------------|------------|---|------|--------|
| <b>1 Rail Assy, Side</b>                                                                                   |            |   |      |        |
| Right                                                                                                      |            |   |      |        |
| 2002                                                                                                       |            |   |      |        |
| To VIN 2S807466                                                                                            | 22694887   | s | #9.5 | 525.00 |
| From VIN 2S807467                                                                                          | 22698221   | s | #9.5 | 525.00 |
| 2003                                                                                                       |            |   |      |        |
| Left                                                                                                       |            |   |      |        |
| 2002                                                                                                       |            |   |      |        |
| To VIN 2S817782                                                                                            | 22694888   | s | #9.5 | 525.00 |
| From VIN 2S817783                                                                                          | 22699174   | s | #9.5 | 525.00 |
| 2003                                                                                                       |            |   |      |        |
| From VIN 2S817783                                                                                          | 22699174   | s | #9.5 | 525.00 |
| <i>#w/Upper Tie Bar Assy or Front Panel Removed Deduct .5, w/Front Wheelhouse Panel Removed Deduct 2.5</i> |            |   |      |        |
| <b>2 Rail, Outer Side]]</b>                                                                                |            |   |      |        |
| Right                                                                                                      | 22686656   | s | 4.5  | 279.95 |
| Left                                                                                                       |            |   |      |        |
| 2002                                                                                                       |            |   |      |        |
| To VIN 2S817782                                                                                            | 22686657   | s | 4.5  | 145.00 |
| From VIN 2S817783                                                                                          | 22699173   | s | 4.5  | 145.00 |
| 2003                                                                                                       |            |   |      |        |
| From VIN 2S817783                                                                                          | 22699173   | s | 4.5  | 145.00 |
| <b>3 Rail Assy, Inner Side]]</b>                                                                           |            |   |      |        |
| Right                                                                                                      |            |   |      |        |
| 2002                                                                                                       |            |   |      |        |
| To VIN 2S807466                                                                                            | 22686629   | s | 6.5  | 325.00 |
| From VIN 2S807467                                                                                          | 22699753   | s | 6.5  | 325.00 |
| 2003                                                                                                       |            |   |      |        |
| From VIN 2S807467                                                                                          | 22699753   | s | 6.5  | 325.00 |
| Left                                                                                                       |            |   |      |        |
| 2002                                                                                                       |            |   |      |        |
| To VIN 2S817782                                                                                            | 22686630   | s | 6.5  | 325.00 |
| From VIN 2S817783                                                                                          | 22699753   | s | 6.5  | 325.00 |
| 2003                                                                                                       |            |   |      |        |
| From VIN 2S817783                                                                                          | 22699753   | s | 6.5  | 325.00 |
| <b>4 Support, Front]] (a)</b>                                                                              |            |   |      |        |
| R/L                                                                                                        | 22686601   | s | 1.5  | 79.95  |
| <b>5 Brkt, Inner Bumper]] (a)</b>                                                                          |            |   |      |        |
| R                                                                                                          | 22686640   | s | 1.5  | 44.95  |
| L                                                                                                          | 22686635   | s | 1.5  | 44.95  |
| <i>(a) Included w/Inner Side Rail Assy</i>                                                                 |            |   |      |        |
| <b>6 Reinf, Lwr Side Rail]]</b>                                                                            |            |   |      |        |
| R                                                                                                          | 22686637   | s |      | 145.00 |
| L                                                                                                          | 22686654   | s |      | 145.00 |
| <b>7 Extension, Lwr Side Rail]]</b>                                                                        |            |   |      |        |
| R/L                                                                                                        | 22686638-9 | s | 2.0  | 119.95 |

|                                       |            |            |      |        |
|---------------------------------------|------------|------------|------|--------|
| 8 Extension, Floor Panel]]            | R/L        | 22668988-9 | s    | 89.95  |
| 9 Brkt, Floor Panel]]                 | R/L        | 22668987-6 | s    | 52.95  |
| 10 Plate, Side]]                      | R          | 22668634   | s    | 44.95  |
|                                       | L          | 22668655   | s    | 44.95  |
| <i>#Included w/Side Rail Assy</i>     |            |            |      |        |
| <b>11 Panel, Frt Whlhouse</b>         |            |            |      |        |
| R/L                                   | 22668991-2 | s          | #5.5 | 215.00 |
| <i>#w/Whlhouse Upper Rail Removed</i> |            |            |      |        |
| <b>12 Reinf, Front Whlhouse</b>       |            |            |      |        |
| R/L                                   | 22692146-5 | s          |      | 145.00 |
| <b>13 Rail, Whlhouse Upper</b>        |            |            |      |        |
| R/L                                   | 22693197-8 | s          | 3.5  | 145.00 |

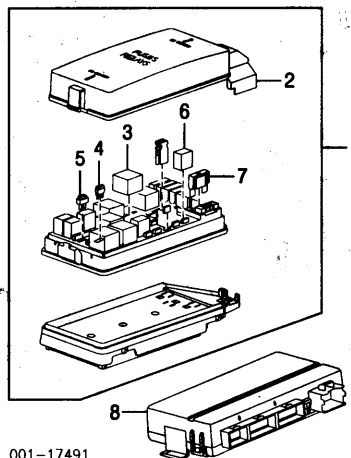
**SUB-FRAME**



001-17487

|                                         |              |   |      |        |
|-----------------------------------------|--------------|---|------|--------|
| 1 Sub-Frame                             | 22684203     | m | #5.0 | 649.95 |
| <i>#Includes R&amp;R Stabilizer Bar</i> |              |   |      |        |
| 2 Bolt, Sub-Frame (2/Side)              | R/L 11519151 |   |      | 2.70   |

**ELECTRICAL COMPONENTS**



001-17491

|                                         |          |    |    |        |
|-----------------------------------------|----------|----|----|--------|
| <b>1 Block Assy, Fuse]]</b>             |          |    |    |        |
| 2.2L Eng                                | 22691041 | m  |    | 245.00 |
| 3.0L Eng                                | 22691043 | m  |    | 210.00 |
| <i>#Order by Application</i>            |          |    |    |        |
| <b>2 Cover, Fuse Block]]</b>            |          |    |    |        |
| 2002                                    |          |    |    |        |
| 1 Cooling Fan Relay                     | 22690529 | .1 |    | 34.95  |
| 2 Cooling Fan Relay                     | 22698655 | .1 |    | 34.95  |
| 2003                                    |          |    |    |        |
| 1 Cooling Fan Relay                     | 22698655 | .1 |    | 34.95  |
| <b>3 Relay]] (a)</b>                    |          |    |    |        |
| 12088567                                |          | m  |    | 5.76   |
| <b>4 Diode]] (a)</b>                    |          |    |    |        |
| 12135037                                |          | m  |    | 2.35   |
| <b>5 Switch, Oil Change Reset]] (a)</b> |          |    |    |        |
| 12198968                                |          | m  |    | 4.39   |
| <b>6 Relay]] (a)</b>                    |          |    |    |        |
| 12193602                                |          | m  |    | 9.21   |
| <b>7 Fuse]] (a)</b>                     |          |    |    |        |
| 12065933                                |          | m  |    | 1.63   |
| <i>#Included w/Fuse Block Assy</i>      |          |    |    |        |
| <i>(a) Order by Application</i>         |          |    |    |        |
| <b>8 Module, Body Control</b>           |          |    |    |        |
| 22693423                                |          | m  | .7 | 208.00 |

**AIR BAG SYSTEM**

**NOTE 1:** R&R Does Not include disable and enable or diagnose Air Bag System.

**NOTE 2:** Refer to Procedural Explanation 30 for Supplemental Restraint/Air Bag Systems Component Inspection and Replacement Information.

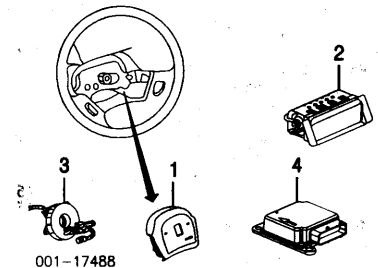
**NOTE 3:** For Air Bag System Service procedures, refer to Manufacturer's Service Repair Manual or Mitchell's Air Bag Service and Repair Manual.

**FRONT**

|                                                                                        |   |    |
|----------------------------------------------------------------------------------------|---|----|
| Disable & Enable Air Bag System.....                                                   | m | .5 |
| Diagnose Air Bag System (If Required).....                                             | m | #5 |
| <i>#Includes Disconnect &amp; Connect Scan Tool &amp; Retrieve/Clear Trouble Codes</i> |   |    |

*Illustration Located in Next Column*

|                                 |          |   |    |        |
|---------------------------------|----------|---|----|--------|
| <b>1 Module, Driver Air Bag</b> |          |   |    |        |
| 2002                            | 22688125 | m | .4 | 595.00 |
| 2003                            |          |   |    |        |

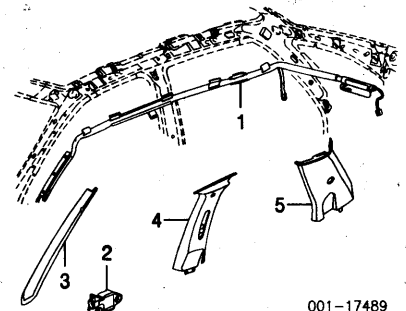


001-17488

|                                           |          |   |     |        |
|-------------------------------------------|----------|---|-----|--------|
| Ebony                                     | 22688125 | m | .4  | 595.00 |
| Gray                                      | 22688123 | m | .4  | 595.00 |
| Neutral                                   | 22688124 | m | .4  | 595.00 |
| <b>2 Module, Passenger Air Bag</b>        |          |   |     |        |
| 22688121                                  |          | m | 1.2 | 625.00 |
| <b>3 Coil, SIR</b>                        |          |   |     |        |
| 22671957                                  |          | m | 1.1 | 89.95  |
| <b>4 Module, Sensing &amp; Diagnostic</b> |          |   |     |        |
| w/Side Curtain Air Bag                    | 22666176 | m | 1.0 | 429.95 |
| w/o Side Curtain Air Bag                  | 22666175 | m | 1.0 | 429.95 |

**SIDE**

|                                                                                        |   |    |
|----------------------------------------------------------------------------------------|---|----|
| Disable & Enable Air Bag System.....                                                   | m | .5 |
| Diagnose Air Bag System (If Required).....                                             | m | #5 |
| <i>#Includes Disconnect &amp; Connect Scan Tool &amp; Retrieve/Clear Trouble Codes</i> |   |    |



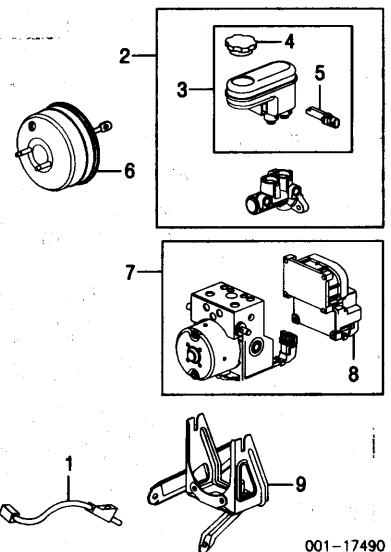
001-17489

|                                                                |            |   |     |        |
|----------------------------------------------------------------|------------|---|-----|--------|
| <b>1 Module, Side Curtain Air Bag</b>                          |            |   |     |        |
| R/L                                                            | 22693611-0 | m | #.8 | 339.95 |
| <i>#w/Headliner Removed</i>                                    |            |   |     |        |
| <b>2 Sensor, Side Impact</b>                                   |            |   |     |        |
| R                                                              | 21990576   | m | #.3 | 65.40  |
| L                                                              | 21991031   | m | #.3 | 65.40  |
| <i>#w/Pillar Trim Panel Removed</i>                            |            |   |     |        |
| <b>3 Midg. Front Garnish-See Windshield Section</b>            |            |   |     |        |
| <b>4 Midg. Center Garnish-See Rocker/Pillars/Floor Section</b> |            |   |     |        |
| <b>5 Midg. Rear Garnish-See Rocker/Pillars/Floor Section</b>   |            |   |     |        |

**ABS/BRAKES**

|                     |   |    |
|---------------------|---|----|
| <b>Bleed System</b> |   |    |
| w/ABS               | m | .5 |
| w/o ABS             | m | .3 |

**NOTE:** R&R Does Not include bleed system.



001-17490

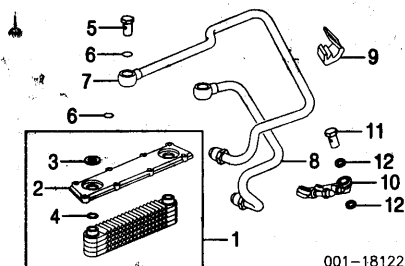
|                            |              |   |     |       |
|----------------------------|--------------|---|-----|-------|
| <b>1 Sensor, ABS Speed</b> |              |   |     |       |
| Front                      | R/L 22676175 | m | #.6 | 34.97 |

## COOLING Cont'd

### 3.0L ENG Cont'd

34 Pipe, Water <sup>†</sup>Included w/Thermostat Assy 90411629 15.30

## ENGINE OIL COOLER



001-18122

|                                                |          |   |    |        |
|------------------------------------------------|----------|---|----|--------|
| 1 Cooler Assy, Engine Oil                      | 90412391 | m | .8 | 395.01 |
| 2 Spacer, Cooler                               | 90501955 |   |    | 8.78   |
| 3 Nut, Mounting                                | 90409174 |   |    | 3.49   |
| 4 Seal, Cooler                                 | 90409175 |   |    | .80    |
| <sup>†</sup> Included w/Engine Oil Cooler Assy |          |   |    |        |
| 5 Fitting, Oil Cooler (2)                      | 90424578 |   |    | 6.00   |
| 6 Seal, Oil Cooler (4)                         | 11076852 |   |    | 1.07   |
| 7 Pipe, Cooler Intake                          | 9240163  | m | .5 | 40.60  |
| 8 Pipe, Cooler Outlet                          | 9240164  | m | .5 | 43.89  |
| 9 Clip, Cooler Pipe                            | 90502262 |   |    | 6.70   |
| 10 Adapter, Oil Cooler                         | 12992649 |   |    | 54.97  |
| 11 Fitting, Oil Cooler (2)                     | 12992646 |   |    | 7.95   |
| 12 Seal, Adapter (4)                           |          |   |    |        |
| 1st Design                                     | 9240180  |   |    | 3.20   |
| 2nd Design                                     | 12992647 |   |    | 0.00   |

## A/C REFRIGERANT CAPACITIES

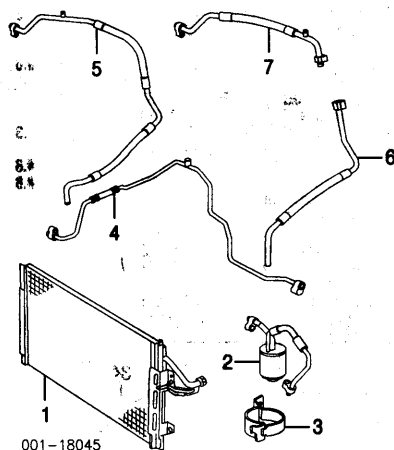
A/C R-134a Refrigerant Capacity  
2002-03: 24 Ozs (1.5 Lbs)

## A/C /HEATER/VENTILATION

Use Procedure Explanation 6 with the following text.

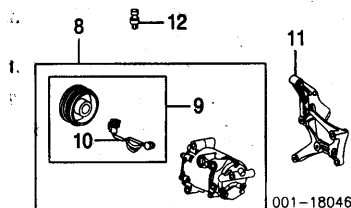
|                                              |   |      |
|----------------------------------------------|---|------|
| R&I HVAC Module                              | m | #1.5 |
| <sup>†</sup> w/Instrument Panel Assy Removed |   |      |
| Evacuate & Recharge System                   | m | 1.4  |
| Recover Refrigerant                          | m | .3   |

NOTE: R&I/R&R Does Not include recover, evacuate and recharge system.



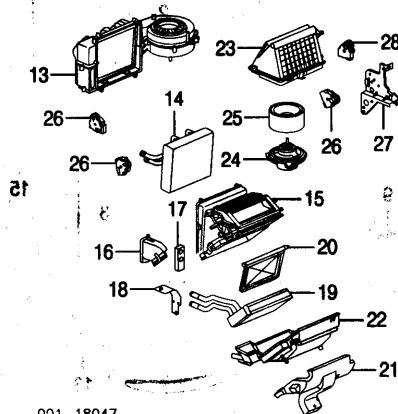
001-18045

|                                              |          |   |    |       |
|----------------------------------------------|----------|---|----|-------|
| 1 Condenser-See Cooling Section              |          |   |    |       |
| 2 Receiver/Drier                             | 22691011 | m | #5 | 90.00 |
| <sup>†</sup> w/Left Combination Lamp Removed |          |   |    |       |
| 3 Bracket, Receiver/Drier                    | 22691012 |   |    | 19.95 |
| 4 Tube, Evaporator                           | 22688156 | m |    | 34.46 |
| O-Ring, Evap Tube                            | 52474373 | m |    | .99   |
| <sup>†</sup> As Required                     |          |   |    |       |
| Hose, Compressor                             |          |   |    |       |
| 5 2.2L Eng                                   | 22692559 | m | .5 | 63.97 |
| 6 3.0L Eng                                   | 22689754 | m | .5 | 56.97 |
| O-Ring, Compressor Hose                      | 52474374 | m |    | .67   |
| 7 Hose, Evaporator                           | 22689752 | m |    | 75.00 |



001-18046

|                                         |          |   |     |         |
|-----------------------------------------|----------|---|-----|---------|
| 8 Compressor Assy                       |          |   |     |         |
| 2.2L Eng                                | 22667432 | m | 1.5 | R497.00 |
| 3.0L Eng                                | 22674670 | m | 2.0 | R497.00 |
| 9 Clutch Assy, Compressor               |          |   |     |         |
| 2.2L Eng                                | 22684605 | m | 1.8 | 175.00  |
| 3.0L Eng                                | 22684606 | m | 2.3 | 235.00  |
| 10 Switch, Compressor (a)               | 22684698 | m |     | 89.97   |
| <sup>†</sup> Included w/Compressor Assy |          |   |     |         |
| (a) Included w/Compressor Clutch Assy   |          |   |     |         |
| 11 Bracket, Compressor/Idler Pulley     |          |   |     |         |
| 3.0L Eng                                | 24469642 | m |     | 84.50   |
| 12 Sensor, Pressure                     | 22634172 | m |     | 28.53   |



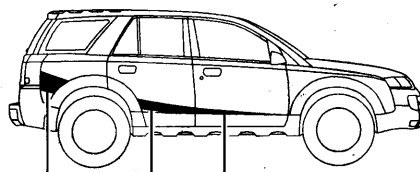
001-18047

|                                                                      |          |   |      |        |
|----------------------------------------------------------------------|----------|---|------|--------|
| 13 Case, Blower                                                      | 22703208 | m | #2.2 | 150.00 |
| 14 Core, Evaporator                                                  | 22666019 | m | #2.2 | 275.00 |
| 15 Case, Evaporator                                                  | 22681625 | m | #2.2 | 96.50  |
| <sup>†</sup> w/Instrument Panel Assy Removed, R&R Complete, Includes |          |   |      |        |
| R&R Heater Core                                                      |          |   |      |        |
| 16 Cover, Evaporator Module                                          | 22668039 |   |      | 29.95  |
| 17 Seal, Heater Core                                                 | 22668040 |   |      | 19.95  |
| 18 Bracket, Blower                                                   | 22664708 |   |      | 19.95  |
| 19 Core, Heater                                                      | 22664710 | m | #1.0 | 175.00 |
| <sup>†</sup> w/Instrument Panel Assy Removed                         |          |   |      |        |
| 20 Valve, Mode                                                       | 22664703 | m |      | 24.95  |
| 21 Cover, Heater                                                     | 22668038 | m |      | 29.95  |
| 22 Duct, Air Outlet                                                  | 22666021 |   |      | 44.95  |
| 23 Duct, Air Inlet                                                   | 22681626 |   |      | 89.95  |
| 24 Motor, Blower                                                     | 22664693 | m | 1.2  | 150.00 |
| 25 Fan, Blower Motor                                                 | 22664694 | m |      | 39.97  |
| 26 Actuator, Defrost Valve                                           | 22666020 | m |      | 64.95  |
| 27 Bracket, Aux Blower                                               | 22664711 |   |      | 39.95  |
| 28 Actuator, Air Inlet                                               | 22664713 | m |      | 59.95  |

## STRIPE TAPE

### TYPE 1

|                           |     |    |
|---------------------------|-----|----|
| Install Front Door Stripe | R/L | .4 |
| Install Rear Door Stripe  | R/L | .4 |
| Install Quarter Stripe    | R/L | .4 |

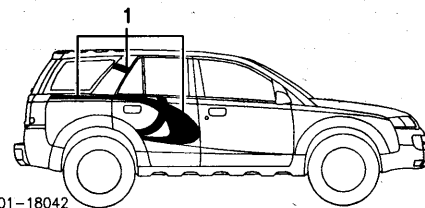


001-18041

|                  |          |  |  |        |
|------------------|----------|--|--|--------|
| 1 Stripe Kit     |          |  |  |        |
| Complete Vehicle | 22690537 |  |  | 175.00 |

### TYPE 2

|                          |     |    |
|--------------------------|-----|----|
| Install Rear Door Stripe | R/L | .6 |
| Install Quarter Stripe   | R/L | .3 |



001-18042

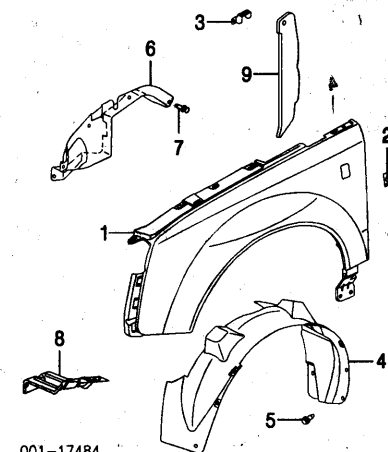
|                  |          |  |  |        |
|------------------|----------|--|--|--------|
| 1 Stripe Kit     |          |  |  |        |
| Complete Vehicle | 22690538 |  |  | 280.00 |

## FRONT FENDER

Use Procedure Explanations 7 and 28 with the following text.

|                         |     |      |
|-------------------------|-----|------|
| Refinish Fender Outside | R/L | 1.8  |
| Add to Edge             | R/L | .5   |
| R&I Fender Assy         | R/L | #1.7 |

<sup>†</sup>Includes R&I/R&R Outer Rocker Panel Moulding, Fender Liner, Windshield Frame Filler Applique & R&I/R&R Roof Front Trim Panel



001-17484

|                                                                                                                                           |                 |      |        |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|--------|
| 1 Fender                                                                                                                                  | R/L 22679667-8  | #2.0 | 219.95 |
| <sup>†</sup> Includes R&I/R&R Outer Rocker Panel Moulding, Fender Liner, Windshield Frame Filler Applique & R&I/R&R Roof Front Trim Panel |                 |      |        |
| 2 Emblem, Fender                                                                                                                          | 02 R/L 21111139 | #4   | 7.02   |
|                                                                                                                                           | 03 R/L 22696585 | #4   | d7.05  |
| <sup>†</sup> w/Fender Removed Deduct .3                                                                                                   |                 |      |        |
| Nut, Emblem                                                                                                                               | R/L 11513575    |      | .86    |
| 3 Bracket, Rear Upper                                                                                                                     | R/L 22664682    |      | 10.70  |
| 4 Liner, Fender                                                                                                                           | R/L 21111830-1  | #4   | 45.00  |
| <sup>†</sup> Included in R&I/R&R Fender                                                                                                   |                 |      |        |
| 5 Retainer, Liner (12/Side)                                                                                                               | R/L 21030249    |      | .50    |
| 6 Shield, Splash                                                                                                                          | R/L 22624532-1  | .2   | 22.95  |
| 7 Retainer, Shield (6/Side)                                                                                                               | R/L 21030249    |      | .50    |
| 8 Bracket, Front                                                                                                                          | R/L 21111918-9  | .2   | 21.95  |
| 9 Insulator                                                                                                                               | R/L 22690778    |      | 9.95   |

## UNDERHOOD DIMENSIONS

NOTE: Information not available at time of publication.

## FRONT INNER STRUCTURE

Use Procedure Explanations 8 and 28 with the following text.

### FRONT

|                                             |     |      |
|---------------------------------------------|-----|------|
| Refinish Upper Tie Bar Assy                 |     | 1.5  |
| Refinish Upper Tie Bar                      |     | 1.0  |
| Refinish Front Panel                        | R/L | .5   |
| Add to R&I/R&R Upper Tie Bar Assy           |     |      |
| To R&I/R&R Base Model Mechanical Components | m   | #1.4 |
| <sup>†</sup> Includes R&I/R&R A/C Condensor |     |      |
| To Air Lamps                                |     | .4   |
| Evacuate & Recharge System                  | m   | 1.4  |
| Recover Refrigerant                         | m   | .3   |

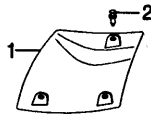
Illustration Located in Next Column

|                                                                                                                                                                                                     |          |   |      |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|------|--------|
| 1 Bar Assy, Upper Tie                                                                                                                                                                               | 22675569 | s | #5.0 | 195.00 |
| <sup>†</sup> Includes R&I/R&R Hood Latch, Hood Prop Rod, Combination Lamp Assemblies, Hood Stop Bumpers, Washer Tank Assy & Battery, Relocated Battery Tray & D&C Hood Release Cable & Wire Harness |          |   |      |        |
| 2 Bar, Upper Tie                                                                                                                                                                                    | 22692144 | s | 2.5  | 89.95  |

|                                   |              |       |
|-----------------------------------|--------------|-------|
| 4 Socket, Signal Lamp]            | R/L 22682487 | 16.95 |
| *Included w/Combination Lamp Assy |              |       |
| 5 Retainer, Lamp                  | R/L 22677687 | 3.45  |
| Module, DRL                       | 22618754     | 34.00 |

**SIDE MARKER LAMP**

|                 |     |    |
|-----------------|-----|----|
| R&L Marker Lamp | R/L | .1 |
|-----------------|-----|----|

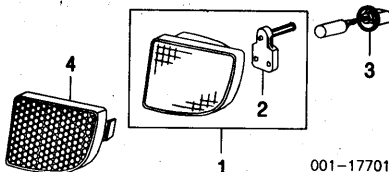


001-17475

|                              |                   |     |        |
|------------------------------|-------------------|-----|--------|
| 1 Lamp, Marker               | 02 R 22684160     | .1  | 39.95  |
|                              | L 22684161        | .1  | d39.95 |
|                              | 03 R/L 22700025-4 | .1  | 45.90  |
| 2 Retainer (2/Side)          | R/L 21030249      | .50 |        |
| Bulb, Side Marker            | R/L 9425542       | #.1 | 1.60   |
| #Included in R&R Marker Lamp |                   |     |        |

**FOG LAMP**

|                                                          |     |     |
|----------------------------------------------------------|-----|-----|
| R&L Fog Lamp Assy                                        | R/L | #.2 |
| #w/Front Cover Assy Removed, Included in R&R Front Cover |     |     |



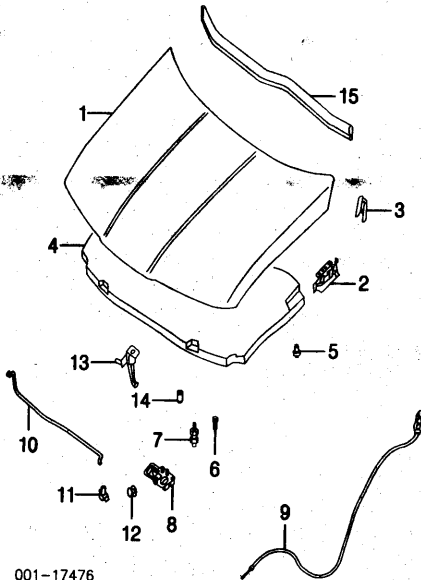
001-17701

|                                                          |                 |       |       |
|----------------------------------------------------------|-----------------|-------|-------|
| 1 Lamp Assy, Fog                                         | R/L 22700030-29 | #.2   | 88.40 |
| #w/Front Cover Assy Removed, Included in R&R Front Cover |                 |       |       |
| 2 Adjuster, Fog Lamp]                                    | R/L 22685052    | 24.95 |       |
| #Included w/Fog Lamp Assy                                |                 |       |       |
| 3 Bulb, Fog Lamp                                         | R/L 12450143    | 10.96 |       |
| 4 Cover, Fog Lamp                                        | R 22694867      | 64.25 |       |
|                                                          | L 22690728      | 29.75 |       |

**HOOD**

Use Procedure Explanations 4 and 28 with the following text.

|                                                  |       |
|--------------------------------------------------|-------|
| Refinish Hood Outside                            | 2.6   |
| Add for Underside                                | 1.3   |
| Refinish Hood Hinge                              | R/L 3 |
| R&L Hood Assy                                    | 4     |
| Add to R&R Hood Panel                            |       |
| w/Hood Deflector                                 | #.4   |
| #Includes Drill for & Install Hood Air Deflector |       |



001-17476

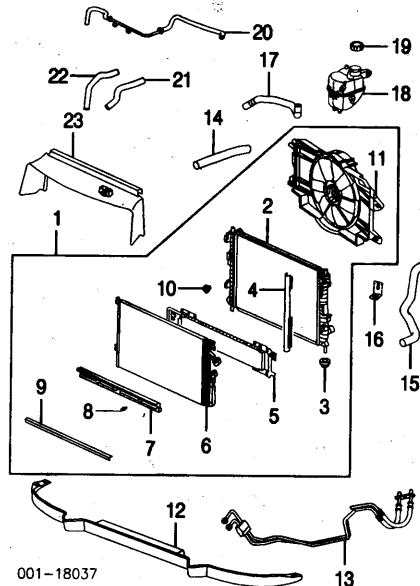
|                           |                |      |        |
|---------------------------|----------------|------|--------|
| 1 Panel, Hood             | 22678105       | .9   | 399.00 |
| 2 Hinge, Hood             | R/L 22670416-7 | #.2  | 23.50  |
| #w/Hood Removed           |                |      |        |
| 3 Cover, Hinge            | R/L 22688306-7 | 7.95 |        |
| Deflector, Hood Air       | 22687461       | 2    | 65.00  |
| 4 Insulator, Hood         | 21990278       | 2    | 58.95  |
| 5 Retainer, Insulator (7) | 21039129       | .13  |        |
| 6 Bumper, Hood            | R/L 472450     | .1   | 1.60   |
| 7 Striker, Latch          | 22695047       | 2    | 11.95  |

|                      |          |      |       |
|----------------------|----------|------|-------|
| 8 Latch, Hood        | 22692285 | .3   | 12.50 |
| 9 Cable, Release     | 22684640 | .7   | 21.95 |
| 10 Rod, Hood Prop    | 22682161 | .1   | 10.15 |
| 11 Retainer, Rod     | 21097282 | .47  |       |
| 12 Bushing, Prop Rod | 10119210 | .75  |       |
| 13 Latch, Secondary  | 22688670 | .1   | 19.95 |
| 14 Bumper, Hood Stop | 21098949 | 1.05 |       |
| 15 Seal, Rear Hood   | 21990798 | .1   | 17.95 |

**COOLING**

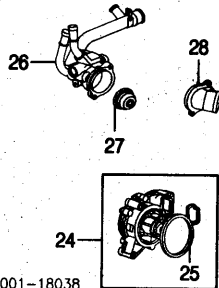
Use Procedure Explanations 5 and 28 with the following text.

**2.2L ENG**



001-18037

|                                 |                |         |        |
|---------------------------------|----------------|---------|--------|
| 1 Module Assy, Cooling          | 22699450       | #.1.1   | 695.00 |
| Man Trans                       | 22699453       | #.1.1   | 895.00 |
| Auto Trans                      | 22701929       | #.1.4   | 304.00 |
| 2 Radiator]                     |                |         |        |
| #w/Front Bumper Cover Removed   |                |         |        |
| 3 Insulator, Lower]             | R/L 22664728   | 11.95   |        |
| 4 Seal, Side Radiator]          | R/L 22664732-3 | 15.95   |        |
| 5 Cooler, Trans]                | 22664740       | m       | 325.00 |
| 6 Condenser]                    | 22664724       | m #.1.1 | 262.00 |
| #w/Front Bumper Cover Removed   |                |         |        |
| 7 Seal, Inner]                  | 22664736       | 19.95   |        |
| 8 Retainer, Inner Seal]         | R/L 22665694   | 12.40   |        |
| 9 Seal, Outer]                  | 22699451       | 19.95   |        |
| 10 Cock, Drain]                 | 22664738       | 14.95   |        |
| 11 Fan & Motor, Cooling]        | 22664726       | #.1.1   | 165.00 |
| #Included w/Cooling Module Assy |                |         |        |
| #w/Front Bumper Cover Removed   |                |         |        |
| 12 Deflector, Lower Air         | 22677685       | .3      | 41.35  |
| 13 Pipe, Trans Cooler           | 22699452       | 69.97   |        |
| 14 Hose, Upper Rad              | 22685159       | #.5     | 32.97  |
| 15 Hose, Lower Rad              | 22685158       | #.5     | 33.97  |
| #R&R Both .8                    |                |         |        |
| 16 Bracket, Upper Rad           | R/L 22689759   | 19.95   |        |
| 17 Hose, Pump Inlet             | 22685161       | 36.97   |        |
| 18 Reservoir, Coolant           | 22669763       | .3      | 46.50  |
| 19 Cap, Reservoir               | 15075118       | 7.15    |        |
| 20 Tube, Reservoir Vent         | 22685160       | .3      | 49.97  |
| 21 Hose, Heater Inlet           | 22685157       | 29.97   |        |
| 22 Hose, Heater Outlet          | 22685156       | 29.97   |        |
| 23 Shield, Condenser Splash     | 22624528       | 22.95   |        |

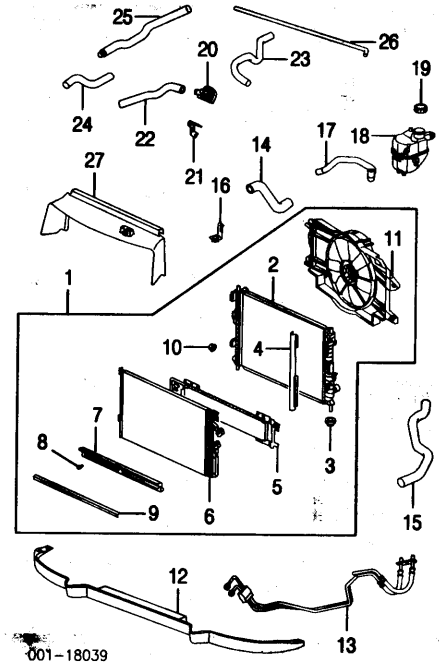


001-18038

|                                             |             |       |       |        |
|---------------------------------------------|-------------|-------|-------|--------|
| 24 Pump Assy, Water                         | 02 24461382 | m     | 2.0   | 93.27  |
|                                             | 03 13105093 | m     | 2.0   | d93.25 |
| 25 Gasket, Pump]                            | 24439799    | m     |       | 9.54   |
| #Included w/Water Pump Assy                 |             |       |       |        |
| 26 Housing, Thermostat                      | 02 24472771 | #.1.6 | 65.51 |        |
|                                             | 03 13104425 | #.1.6 | 65.51 |        |
| #Includes R&R Thermostat & Thermostat Cover |             |       |       |        |

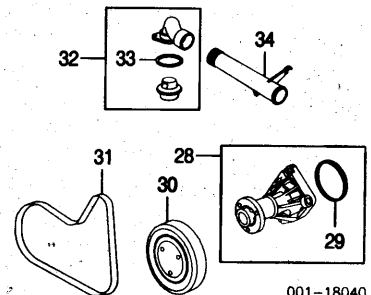
|                      |          |      |       |
|----------------------|----------|------|-------|
| 27 Thermostat        | 55350941 | #1.0 | 21.13 |
| 28 Cover, Thermostat | 24447272 | #1.0 | 15.51 |
| #R&R Complete        |          |      |       |
| 29 Belt, Drive       | 24466973 | .5   | 11.97 |

**3.0L ENG**



001-18039

|                                 |                |         |        |
|---------------------------------|----------------|---------|--------|
| 1 Module Assy, Cooling          | 22699448       | #.1.1   | 995.00 |
| 2 Radiator]                     | 22701929       | #.1.4   | 304.00 |
| #w/Front Bumper Cover Removed   |                |         |        |
| 3 Insulator, Lower]             | R/L 22664728   | 11.95   |        |
| 4 Seal, Side Radiator]          | R/L 22664732-2 | 15.95   |        |
| 5 Cooler, Trans]                | 22664740       | m       | 325.00 |
| 6 Condenser]                    | 22664724       | m #.1.1 | 262.00 |
| #w/Front Bumper Cover Removed   |                |         |        |
| 7 Seal, Inner]                  | 22674668       | 15.97   |        |
| 8 Retainer, Inner Seal]         | R/L 22665694   | 12.40   |        |
| 9 Seal, Outer]                  | 22699451       | 19.95   |        |
| 10 Cock, Drain]                 | 22664738       | 14.95   |        |
| 11 Fan & Motor, Cooling]        | 22674667       | #.1.1   | 265.00 |
| #Included w/Cooling Module Assy |                |         |        |
| #w/Front Bumper Cover Removed   |                |         |        |
| 12 Deflector, Lower Air         | 22677685       | .3      | 41.35  |
| 13 Pipe, Trans Cooler           | 22699452       | 69.97   |        |
| 14 Hose, Upper Rad              | 22678166       | #.7     | 29.97  |
| 15 Hose, Lower Rad              | 22685807       | #.8     | 30.39  |
| #R&R Both .9                    |                |         |        |
| 16 Bracket, Upper Rad           | R/L 22689759   | 19.95   |        |
| 17 Hose, Pump Inlet             | 22685810       | 34.97   |        |
| 18 Reservoir, Coolant           | 22669763       | .3      | 46.50  |
| 19 Cap, Reservoir               | 15075118       | 7.15    |        |
| 20 Pump, Aux Water              | 22685797       | m #.8   | 92.97  |
| 21 Bracket, Pump                | 22685798       | m #.8   | 32.95  |
| #R&R Complete                   |                |         |        |
| 22 Hose, Aux Pump               | 22685823       | 21.97   |        |
| 23 Hose, Heater Outlet          | 22685820       | 29.97   |        |
| 24 Hose, Front Heater Inlet     | 22685822       | 29.97   |        |
| 25 Hose, Rear Heater Inlet      | 22685821       | 31.97   |        |
| 26 Hose, Reservoir Vent         | 22685809       | 29.97   |        |
| 27 Shield, Condenser Splash     | 22624528       | 22.95   |        |



001-18040

|                             |          |     |       |       |
|-----------------------------|----------|-----|-------|-------|
| 28 Pump Assy, Water         | 93170697 | m   | 3.0   | 93.27 |
| 29 Gasket, Pump]            | 90354908 | m   |       | 1.07  |
| #Included w/Water Pump Assy |          |     |       |       |
| 30 Pulley, Pump             | 90502558 | 1.1 | 7.15  |       |
| 31 Belt, Drive              | 24419364 | .5  | 19.97 |       |
| 32 Thermostat Assy          | 22687712 | .8  | 24.67 |       |
| 33 Seal, Thermostat]        | 24447061 |     | 2.82  |       |

# SATURN VUE 2002-03

## REAR BUMPER Cont'd

|                                   |                |     |        |
|-----------------------------------|----------------|-----|--------|
|                                   | 00-01 21124558 | #2  | 24.58  |
| #w/Bumper Cover Removed           |                |     |        |
| 8 Retainer, Cover Filler (7)      |                |     |        |
| Sedan                             | 11519807       |     | .29    |
| Wagon                             | 21030249       |     | .50    |
| 9 Absorber, Impact                | 96-99 21108244 | IOH | 67.11  |
|                                   | 00-02 21111742 | IOH | 67.11  |
|                                   | 21108651       | IOH | 168.15 |
| 10 Bar, Impact                    |                |     | 4.17   |
| 11 Plate, Bar Stud                | R/L 21075625   |     |        |
| Bolt, Impact Bar (2/Side)         | R/L 11516175   |     | .33    |
| 12 Rivet, Impact Absorber (7)     | 9433186        |     | .16    |
| 13 Brkt, Towing                   | 21110807       |     | 11.41  |
| 14 Insulator, Impact Bar (2/Side) | R/L 21075577   |     | .46    |

# SATURN VUE 2002-03

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| STRIPE TAPE.....                 | 1052 |
| SUNROOF.....                     | 1062 |
| UNDERHOOD DIMENSIONS.....        | 1052 |
| WHEEL.....                       | 1054 |
| WINDSHIELD.....                  | 1056 |

## SPECIAL CAUTIONS

### AIR BAG

Refer to Procedure Explanation 29 for Supplemental Restraint/Air Bag Special Cautions.

### PAINT CODE LOCATION

Paint code located on left rear door frame.

### CLEAR COAT IDENTIFICATION

All colors are clear coat.

### INFORMATION LABELS

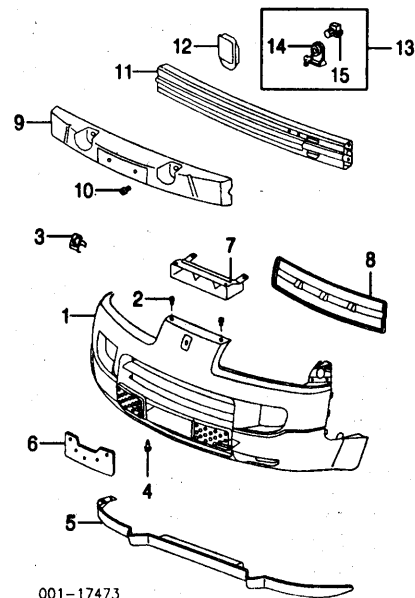
|                           |             |      |
|---------------------------|-------------|------|
| Label, Fan Caution        | 22674722    | 5.95 |
| Label, Emission           |             |      |
| 2.2L Eng                  | 02 12570392 | .95  |
|                           | 03 12570397 | 1.60 |
| 3.0L Eng                  | 02 12570393 | .95  |
|                           | 03 12570398 | 1.95 |
| Label, A/C Caution        | 22688788    | 6.25 |
| Label, Eng Identification | 12569358    | 1.95 |
| Label, AWD                | 12567697    | .95  |
| Label, Jack Usage         | 22624709    | 3.95 |
| Label, Child Lock         | 12451193    | .95  |

### FRONT BUMPER

Use Procedure Explanations 1 and 28 with the following text.

|                                                                  |      |
|------------------------------------------------------------------|------|
| Refinish Bumper Cover.....                                       | 1.6  |
| Refinish Impact Bar.....                                         | 1.0  |
| R&I Front Cover Assy.....                                        | #1.5 |
| R&I Bumper Assy (Includes R&I Front Cover Assy).....             | #1.9 |
| O/H Bumper Assy (Includes R&I).....                              | #2.3 |
| #Includes R&I/R&R Combination Lamp Assemblies & Marker Lamps     |      |
| Add to R&R Front Cover or O/H Front Bumper Assy w/Fog Lamps..... | .3   |

NOTE: All Parts in this section are included in overhaul unless noted otherwise.



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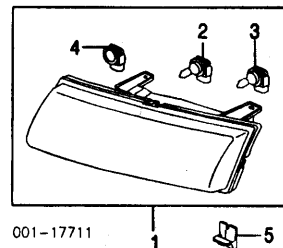
|                                                              |                |      |        |
|--------------------------------------------------------------|----------------|------|--------|
| 1 Cover, Bumper (P)                                          | 22706734       | #1.9 | 325.00 |
| (P) Paint to Match                                           |                |      |        |
| #Includes R&I/R&R Combination Lamp Assemblies & Marker Lamps |                |      |        |
| 2 Retainer, Upper Cover (2)                                  | 21030249       |      | .50    |
| 3 Emblem, Cover                                              | 02 21110182    | #1.6 | 6.79   |
|                                                              | 03 22696586    | #1.6 | 67.95  |
| #Includes R&I Front Cover Assy, Included in R&R Front Cover  |                |      |        |
| Retainer, Emblem                                             | 11513575       |      | .86    |
| 4 Retainer, Lower Cover (2)                                  | 21030249       |      | .50    |
| 5 Deflector, Lower Air-See Cooling Section                   |                |      |        |
| 6 Brkt, License Plate                                        | 22685846       | .3   | 14.70  |
| 7 Support, Center                                            | 22669469       |      | 24.95  |
| 8 Grille, Cover                                              | 22687966       | #1.6 | 34.95  |
| #Includes R&I Front Cover Assy, Included in R&R Front Cover  |                |      |        |
| 9 Absorber, Impact                                           | 22665977       | 2.3  | 65.00  |
| 10 Retainer, Absorber                                        | R/L 21077131   |      | .60    |
| 11 Bar, Impact                                               | 22682415       | 2.3  | 174.95 |
| 12 Brkt, Outer Bumper                                        | R/L 22682416-7 | #.5  | 39.95  |
| #w/Bumper Assy Removed, Not Included in O/H                  |                |      |        |
| Brkt, Inner Bumper-See Front Inner Structure Section         |                |      |        |
| 13 Sensor Assy, Air Temp                                     | 15047946       |      | 9.58   |
| 14 Bracket, Air Sensor                                       | 15044342       |      | 3.75   |
| 15 Sensor, Air Temp                                          | 15035786       |      | 14.97  |
| #Included w/Air Temperature Sensor Assy                      |                |      |        |

## FRONT LAMPS

### COMBINATION LAMP

|                                |         |
|--------------------------------|---------|
| Aim Lamps.....                 | .4      |
| R&I Combination Lamp Assy..... | R/L #.2 |
| #Includes R&I/R&R Marker Lamp  |         |

NOTE: R&R Does Not include aim lamps.



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|                               |                |     |        |
|-------------------------------|----------------|-----|--------|
| 1 Lamp Assy, Combination      | R/L 22702946-5 | #.2 | 178.95 |
| #Order by Application         |                |     |        |
| #Includes R&I/R&R Marker Lamp |                |     |        |
| 2 Bulb, High Beam             | R/L 9441732    | #.2 | 9.61   |
| 3 Bulb, Low Beam              | R/L 1999366    | #.2 | 12.76  |
| #R&R One Side Complete        |                |     |        |